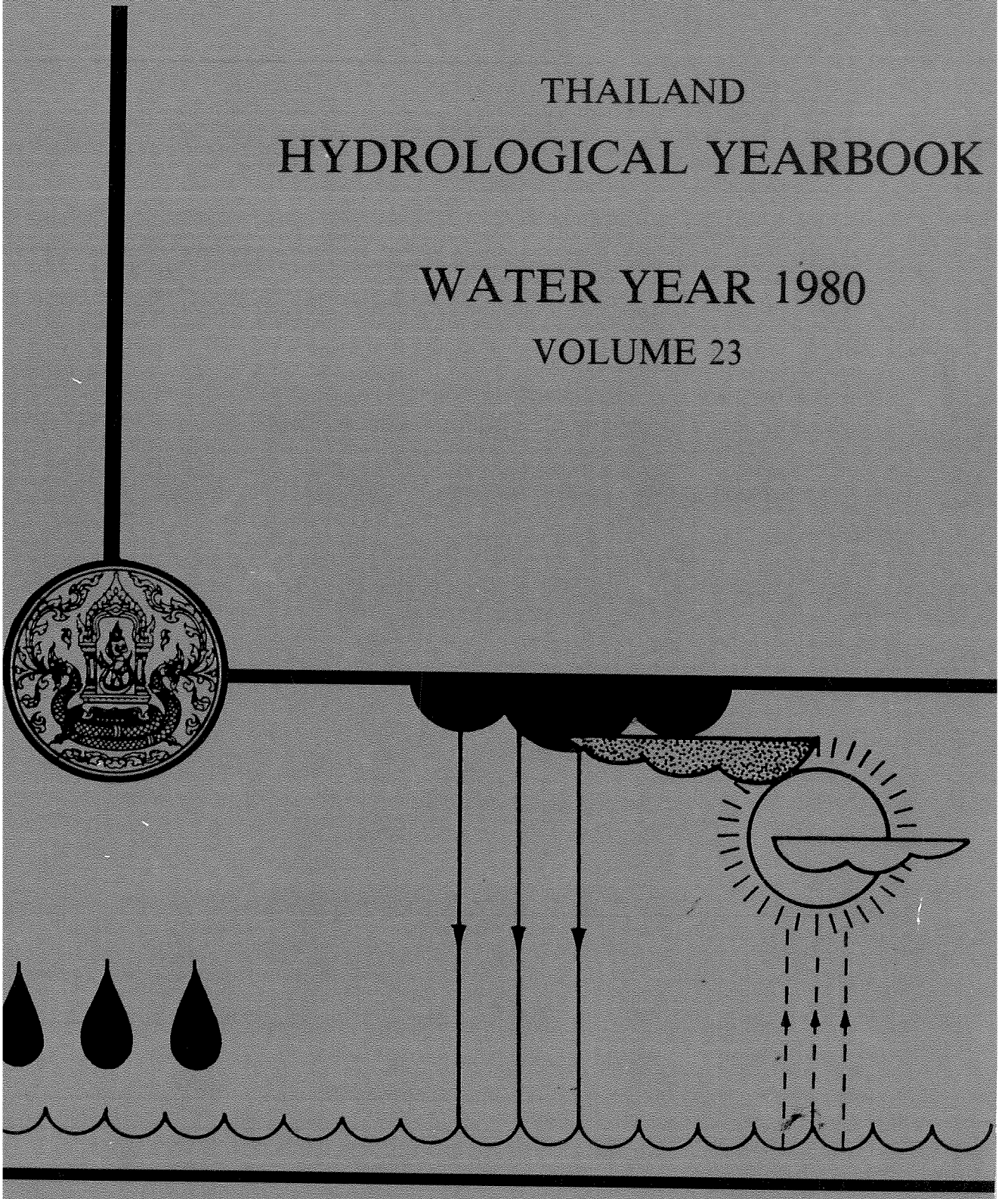
THAILAND
HYDROLOGICAL YEARBOOK

WATER YEAR 1980

VOLUME 23



ROYAL IRRIGATION DEPARTMENT
HYDROLOGY DIVISION
BANGKOK

THAILAND
HYDROLOGICAL YEARBOOK

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Royal Irrigation Department
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Bangkok

FOREWORD

The programme of yearbook publications was initiated in 1966 Great efforts have been made in editing as well as the setting up of standard for yearbook publication. The previously processed data have been reviewed and arranged in serial order or volumes to be published. The first issue was published in 1968 as Volume 8. It presents records, during the 1965 water year, of stage and discharge of 59 streams at 86 actual streamflow calibrating sites and at 27 previously calibrated ones. Up till now 22 volumes of yearbooks presenting streamflow data as early as 1912 up to 1979 totalling 3,851 station-years of record had been published.

This Volume 23 which is the twenty-third issue of the series, was prepared by the Data Processing Section. It presents records, during the 1980 water year, of stage and discharge of 158 streams at 167 currently calibrating sites and at 64 previously or subsequently calibrating ones.

Some remarks are made under each station description.

Hydrology Division
August 1982

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

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

We also wish to express our sincere appreciation to the Chief of Public Relation and Printing Services Section, Program Coordination and Budget Division, and his efficient staff whose kind assistance and co-ordinated effort have contributed to the success of this Volume 23 issue.

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LOCATION MAP OF HYDROLOGIC OBSERVATION STATIONS IN 1980 WATER YEAR.

ILLUSSTRATION OF STREAM GAGING ACTIVITIES



Fig. 1 Typical vertical staff gage



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





Fig.3 Standard bench mark



Fig.4 Close-up of rating operation

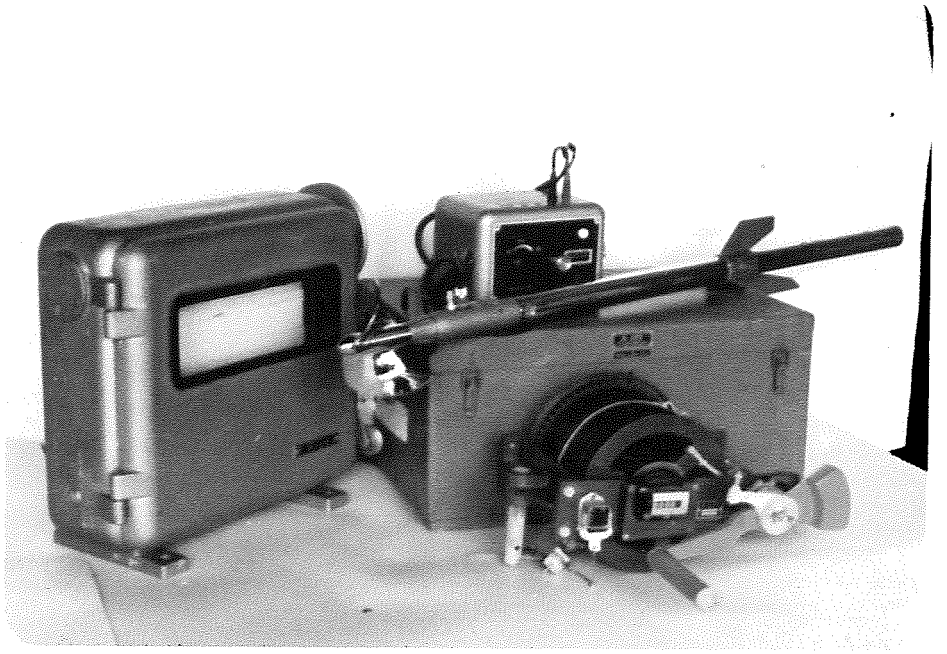


Fig.5 Standard hydrologic equipment

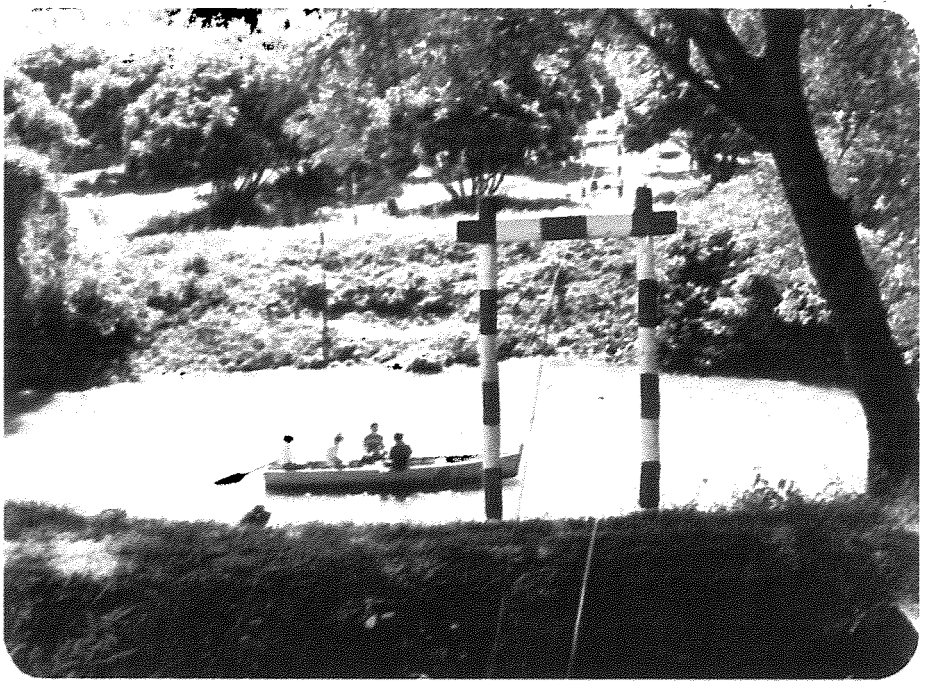


Fig.6 Measuring line



Fig.7 Camp for hydrological station

HYDROLOGICAL YEAR BOOK PUBLICATION

* * * * * * * *

Introduction

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

Definition of terms and abbreviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Order of listing of gaging data

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

Series of yearbook publications

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

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

Volume	Water Years	No. of station-years	Date of issuance
6	1960-1962	213	October 1973
7	1963-1964	182	July 1969
8	1965	113	May 1967
9	1966	129	June 1975
10	1967	172	September 1976
11	1968	187	September 1976
12	1969	182	March 1979
13	1970	182	March 1979
14	1971	182	June 1979
15	1972	184	October 1979
16	1973	187	January 1980
17	1974	191	May 1980
18	1975	182	August 1980
19	1976	184	November 1980
20	1977	192	February 1981
21	1978	210	May 1982
22	1979	237	July 1981
23	1980	231	August 1982

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

STANDARD OF STREAMFLOW DATA PROCUREMENT

* * * * * * *

Network design

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

(a) Accessibility.

(b) Geographical location.

(c) Mean annual rainfall.

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

(e) Basin soil type.

(f) Type of surface rock.

Field work

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

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

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

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

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

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

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

Office data processing

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

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

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

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

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

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

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

flow computation, are practically made.

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

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

Review of procedure for streamflow data processing.

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

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

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

b) Discrepancies of recording charts, if any.

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

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

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

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

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

4) Checking stability of rating curve used.

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

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

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

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

Classification of streamflow data

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

Future plan for computerization

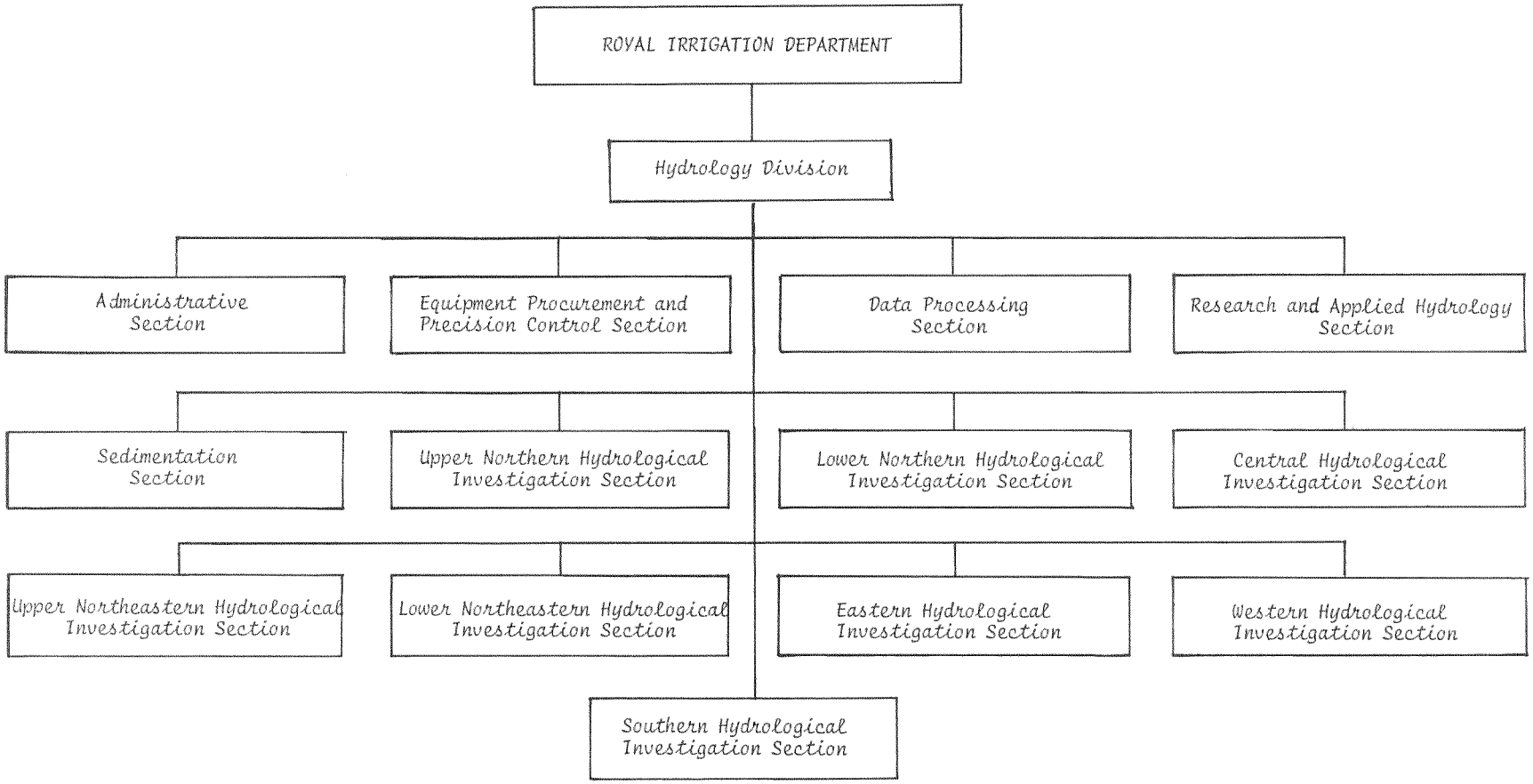
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement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

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

Organization

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

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


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

PARTICIPATION IN STREAM GAGING WORKS

* * * * * * * *

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

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

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

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

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

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

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

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

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

UNITS OF MEASURE AND CONVERSION FACTORS

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

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

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

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Stream Gaging Data

Water Year 1980

WATER YEAR 1980

PING RIVER BASIN

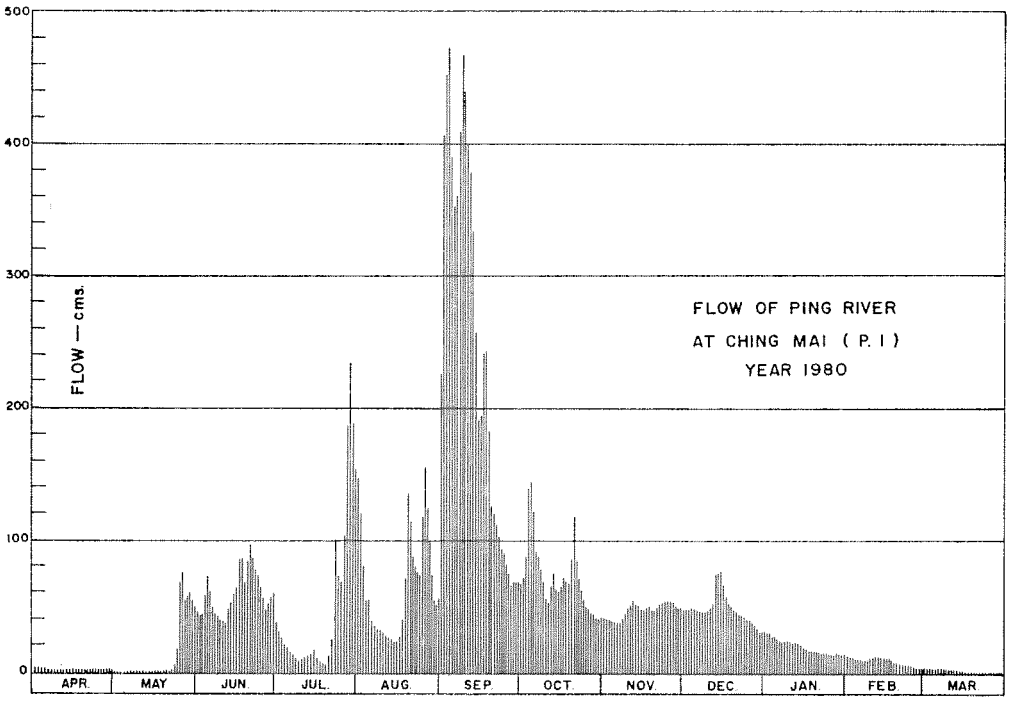
PING RIVER AT CHIANG MAI, CHIANG MAI (P.1)

LOCATION	LAT. 18°-47'-09" N., LONG. 99°-00'-29" E., ON LEFT BANK ABOUT 100 METERS DOWNSTREAM FROM NAWARAT BRIDGE, AMPHOE MUANG, CHIANG MAI.
DRAINAGE AREA	6,355 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+300.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+305.31 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1917 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967 TO DATE.
RATED BY FLOAT	1936-1938
RATED BY CURRENT METER	1954-1960, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1980. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 11,200 HECTARES AT MAE FAEK WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	300.84	300.60	301.51	301.44	302.14	302.44	301.68	301.46	301.53	301.36	301.10	300.87	
2	300.84	300.60	301.47	301.38	302.00	303.57	301.71	301.46	301.53	301.36	301.08	300.86	
3	300.84	300.60	301.49	301.32	301.75	303.91	301.80	301.45	301.52	301.34	301.08	300.86	
4	300.84	300.60	301.62	301.25	301.59	304.03	302.10	301.44	301.53	301.31	301.09	300.86	
5	300.84	300.68	301.72	301.20	301.59	303.68	302.13	301.43	301.54	301.31	301.05	300.85	
6	300.84	300.74	301.65	301.15	301.44	303.26	301.94	301.42	301.52	301.29	301.05	300.84	
7	300.84	300.70	301.55	301.13	301.41	303.30	301.84	301.42	301.50	301.28	301.05	300.84	
8	300.84	300.68	301.50	301.11	301.39	303.50	301.80	301.45	301.50	301.28	301.05	300.83	
9	300.84	300.65	301.47	301.07	301.39	303.81	301.70	301.49	301.50	301.29	301.07	300.83	
10	300.84	300.65	301.45	301.05	301.37	304.00	301.62	301.54	301.52	301.28	301.08	300.82	
11	300.83	300.63	301.43	301.07	301.34	303.59	301.57	301.57	301.54	301.28	301.09	300.81	
12	300.83	300.62	301.42	301.08	301.32	303.42	301.67	301.59	301.56	301.27	301.11	300.81	
13	300.83	300.61	301.54	301.08	301.30	303.13	301.74	301.58	301.73	301.25	301.11	300.80	
14	300.83	300.60	301.59	301.12	301.29	302.61	301.66	301.55	301.74	301.23	301.10	300.80	
15	300.83	300.60	301.63	301.15	301.26	302.32	301.63	301.54	301.74	301.19	301.08	300.79	
16	300.83	300.60	301.65	301.11	301.27	302.34	301.69	301.52	301.66	301.17	301.07	300.78	
17	300.83	300.60	301.82	301.05	301.36	302.51	301.72	301.53	301.60	301.17	301.08	300.77	
18	300.83	300.60	301.80	301.01	301.48	302.52	301.68	301.55	301.57	301.17	301.03	300.77	
19	300.82	300.60	301.68	300.98	301.75	302.29	301.67	301.51	301.54	301.16	301.00	300.76	
20	300.82	300.57	301.81	300.98	302.09	302.05	301.80	301.52	301.51	301.16	300.98	300.76	
21	300.82	300.60	301.88	301.10	302.01	302.02	302.01	301.53	301.50	301.14	300.98	300.75	
22	300.82	300.70	301.84	301.29	301.81	301.98	301.84	301.56	301.49	301.14	300.98	300.75	
23	300.82	300.77	301.75	301.78	301.76	301.92	301.70	301.58	301.48	301.14	300.97	300.74	
24	300.82	301.17	301.73	301.90	301.72	301.86	301.63	301.59	301.46	301.11	300.95	300.73	
25	300.82	301.65	301.64	301.72	301.92	301.84	301.58	301.59	301.46	301.12	300.91	300.73	
26	300.81	301.74	301.58	301.69	302.18	301.76	301.54	301.59	301.44	301.12	300.88	300.73	
27	300.81	301.56	301.51	302.00	302.09	301.69	301.52	301.58	301.41	301.12	300.88	300.72	
28	300.81	301.61	301.58	302.32	301.84	301.67	301.49	301.55	301.39	301.11	300.87	300.72	
29	300.81	301.64	301.60	302.48	301.65	301.69	301.47	301.53	301.38	301.11		300.71	
30	300.81	301.60	301.63	302.40	301.54	301.69	301.45	301.53	301.37	301.12		300.70	
31		301.57		302.20	301.60		301.46		301.36	301.12		300.70	
MEAN	300.83	300.88	301.62	301.41	301.63	302.68	301.70	301.52	301.52	301.21	301.03	300.78	
MAX	300.84	301.74	301.88	302.48	302.18	304.03	302.13	301.59	301.74	301.36	301.11	300.87	304.03
MIN	300.81	300.57	301.42	300.98	301.26	301.67	301.45	301.42	301.36	301.11	300.87	300.70	300.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 304.05 M (MSL), AT 12.00 HOURS, ON SEP 4, 1980
ZERO GAGE AT BOTTOM ELEVATION 300.80 M (MSL), RIVER BED 299.09 M (MSL)
LEFT BANK ELEVATION 305.66 M (MSL)
RIGHT BANK ELEVATION 305.45 M (MSL), DRAINAGE AREA 6355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.20	0.00	46.09	39.00	146.00	221.99	67.20	41.00	48.30	31.40	13.00	4.10	
2	3.20	0.00	42.00	33.20	118.00	398.50	71.40	41.00	48.30	31.40	12.00	3.80	
3	3.20	0.00	44.00	27.80	77.00	451.60	84.00	40.00	47.20	29.60	12.00	3.80	
4	3.20	0.00	58.80	22.50	54.90	471.09	138.00	39.00	48.30	26.90	12.50	3.80	
5	3.20	0.80	72.80	19.00	54.90	415.01	144.00	38.00	49.40	26.90	10.50	3.50	
6	3.20	1.40	63.00	16.00	39.00	351.99	107.19	37.00	47.20	25.30	10.50	3.20	
7	3.20	1.00	50.50	14.80	36.00	358.00	90.40	37.00	45.00	24.60	10.50	3.20	
8	3.20	0.80	45.00	13.60	34.10	388.01	84.00	40.00	45.00	24.60	10.50	2.90	
9	3.20	0.50	42.00	11.50	34.10	435.60	70.00	44.00	45.00	25.30	11.50	2.90	
10	3.20	0.50	40.00	10.50	32.30	466.00	58.80	49.40	47.20	24.60	12.00	2.60	
11	2.90	0.30	38.00	11.50	29.60	401.50	52.70	52.70	49.40	24.60	12.50	2.30	
12	2.90	0.20	37.00	12.00	27.80	376.00	65.80	54.90	51.60	23.90	13.60	2.30	
13	2.90	0.10	49.40	12.00	26.00	332.49	75.60	53.80	74.20	22.50	13.60	2.00	
14	2.90	0.00	54.90	14.20	25.30	256.06	64.40	50.50	75.60	21.10	13.00	2.00	
15	2.90	0.00	60.20	16.00	23.20	188.39	60.20	49.40	75.60	18.40	12.00	1.90	
16	2.90	0.00	63.00	13.60	23.90	193.80	68.59	47.20	64.40	17.20	11.50	1.80	
17	2.90	0.00	87.19	10.50	31.40	241.45	72.80	48.30	56.00	17.20	12.00	1.70	
18	2.90	0.00	84.00	8.50	43.00	242.91	67.20	50.50	52.70	17.20	9.50	1.70	
19	2.60	0.00	67.20	7.40	77.00	180.50	65.80	46.09	49.40	16.60	8.00	1.60	
20	2.60	0.00	85.60	7.40	136.00	128.00	84.00	47.20	46.09	16.60	7.40	1.60	
21	2.60	0.00	96.80	13.00	119.99	121.99	119.99	48.30	45.00	15.40	7.40	1.50	
22	2.60	1.00	90.40	25.30	85.60	114.40	90.40	51.60	44.00	15.40	7.40	1.50	
23	2.60	1.70	77.00	81.20	78.39	103.60	70.00	53.80	43.00	15.40	7.10	1.40	
24	2.60	17.20	74.20	100.00	72.80	93.60	60.20	54.90	41.00	13.60	6.50	1.30	
25	2.60	63.00	61.60	72.80	103.60	90.40	53.80	54.90	41.00	14.20	5.30	1.30	
26	2.30	75.60	53.80	68.59	154.01	78.39	49.40	54.90	39.00	14.20	4.40	1.30	
27	2.30	53.80	46.09	118.00	136.00	68.59	47.20	53.80	36.00	14.20	4.40	1.20	
28	2.30	57.40	53.80	188.39	90.40	65.80	44.00	50.50	34.10	13.60	4.10	1.20	
29	2.30	61.60	56.00	234.00	63.00	68.59	42.00	48.30	33.20	13.60		1.10	
30	2.30	56.00	60.20	210.00	49.40	68.59	40.00	48.30	32.30	14.20		1.00	
31		52.70		158.00	56.00		41.00		31.40	14.20		1.00	
TOTAL	84.90	445.60	1800.57	1590.28	2078.69	7372.83	2250.07	1426.29	1485.89	623.90	274.70	66.50	19500.20 CMSDAY
MEAN	2.83	14.37	60.02	51.30	67.05	245.76	72.58	47.54	47.93	20.13	9.81	2.15	53.43 CMS
MAX	3.20	75.60	96.80	234.00	154.01	471.09	144.00	54.90	75.60	31.40	13.60	4.10	471.09 CMS
MIN	2.30	0.00	37.00	7.40	23.20	65.80	40.00	37.00	31.40	13.60	4.10	1.00	0.00 CMS
RUNOFF	7.335	38.500	155.569	137.400	179.599	637.013	194.406	123.231	128.381	53.905	23.734	5.746	1684.817 MCM

MOMENTARY PEAK 474.50 CMS, AT 304.05 M (MSL), AT 12.00 HOURS, ON SEP 4, 1980

RUNOFF YIELD 8.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 74.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

PING RIVER AT BAN THA KHAE, TAK (P.2A)

LOCATION — LAT. 16°-51'-14" N., LONG. 99°-07'-50" E., ON RIGHT BANK ABOUT 200 METERS DOWNSTREAM FROM KITTIKHACHON I BRIDGE, BAN THA KHAE, AMPHOE MUANG, TAK.

DRAINAGE AREA — 38.862 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +104.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +115.321 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1952 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1952-1960, 1963-1967, 1971 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1952-1960, 1963-1967, 1971 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 59 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY PHUMIPHOL DAM RESERVOIR SINCE 1964. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 40,300 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

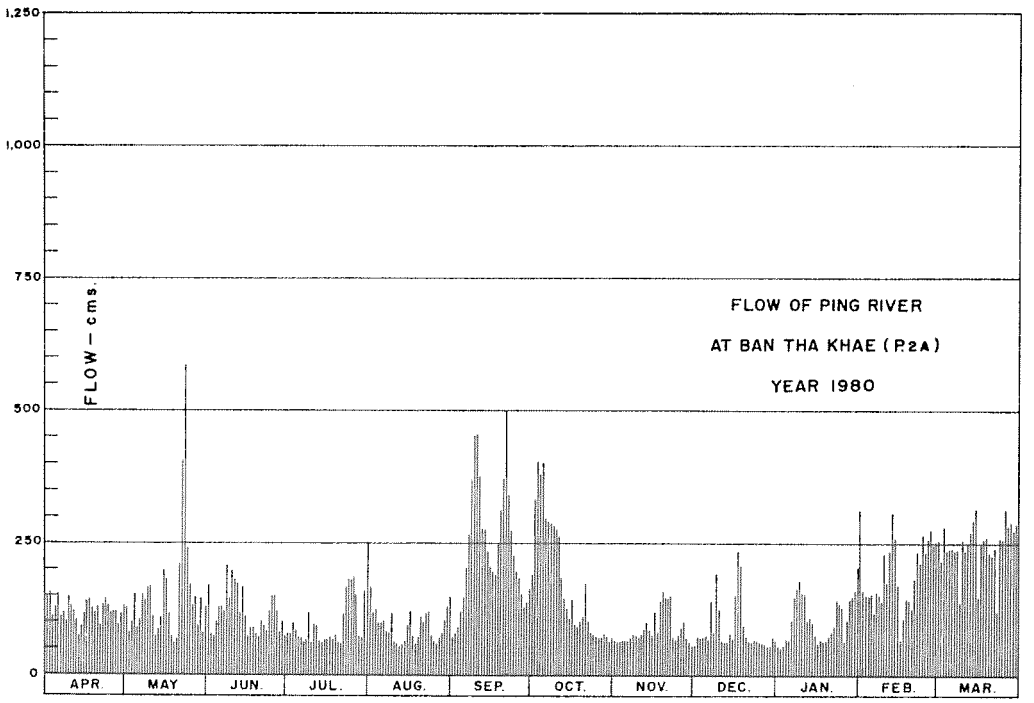
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	105.32	105.26	105.40	105.06	105.39	105.01	105.45	104.96	104.80	104.78	105.76	105.62	
2	105.36	105.10	104.99	105.09	105.22	105.07	105.84	104.94	105.00	104.72	105.36	105.44	
3	105.19	105.16	105.04	105.15	105.25	105.12	105.97	104.92	104.98	104.71	105.34	105.68	
4	105.27	105.34	105.18	105.11	105.16	105.22	105.92	104.93	105.03	104.96	105.33	105.56	
5	105.34	105.12	105.26	105.02	105.18	105.33	105.96	104.95	105.05	104.90	105.35	105.57	
6	105.20	105.18	105.27	105.00	105.18	105.52	105.72	104.93	104.90	105.12	105.23	105.58	
7	105.23	105.34	105.24	104.88	105.11	105.61	105.71	105.01	105.30	105.31	105.36	105.56	
8	105.15	105.31	105.49	105.01	105.09	105.86	105.71	105.08	105.10	105.38	105.34	105.57	
9	105.32	105.37	105.28	105.22	105.23	106.07	105.69	105.09	105.46	105.43	105.29	105.28	
10	105.27	105.39	105.47	104.89	104.90	106.07	105.65	105.03	105.22	105.35	105.55	105.62	
11	105.24	105.19	105.43	105.16	104.84	105.84	105.51	105.10	104.90	105.35	105.40	105.56	
12	105.24	104.93	105.42	104.90	104.79	105.68	105.38	105.15	104.89	104.98	105.52	105.61	
13	104.97	105.12	105.24	104.91	104.79	105.67	105.30	105.17	104.89	105.20	105.74	105.65	
14	105.12	105.16	105.39	104.83	104.93	105.57	105.24	105.12	105.07	105.19	105.63	105.72	
15	105.19	105.47	105.29	104.96	105.14	105.49	105.19	105.07	104.96	105.06	105.43	105.76	
16	105.30	105.43	105.02	104.94	105.24	105.48	105.32	105.24	105.31	104.83	104.90	105.32	
17	105.31	105.18	105.14	105.03	105.03	105.45	105.16	104.99	105.57	104.87	105.20	105.59	
18	105.25	104.97	105.14	104.91	104.83	105.56	105.13	105.29	105.50	104.96	105.31	105.62	
19	105.23	104.83	105.05	105.07	105.09	105.72	105.16	105.36	105.09	104.83	105.31	105.63	
20	105.26	104.97	104.97	104.86	105.20	105.89	105.20	105.33	104.98	104.98	105.26	105.56	
21	105.14	105.32	105.18	104.81	105.17	106.16	105.41	105.32	104.88	105.10	105.41	105.54	
22	105.26	105.79	105.16	105.22	105.22	105.83	105.18	105.34	104.83	105.13	105.56	105.58	
23	105.30	106.33	105.08	105.34	105.23	105.66	105.11	105.02	104.95	105.29	105.45	105.24	
24	105.26	105.56	105.23	105.43	105.03	105.52	105.07	104.91	104.93	105.30	105.65	105.62	
25	105.22	105.33	105.34	105.43	104.92	105.46	105.04	105.07	104.87	105.28	105.55	105.61	
26	105.22	105.27	105.34	105.44	104.88	105.44	105.01	105.14	104.85	104.89	105.62	105.76	
27	105.24	105.33	105.24	105.30	105.00	105.34	105.00	105.18	104.81	105.17	105.66	105.68	
28	105.14	105.14	105.11	105.02	105.09	105.25	105.09	104.94	104.77	105.32	105.59	105.70	
29	105.23	105.31	105.17	104.99	105.15	105.31	105.02	104.85	104.75	105.32		105.66	
30	105.28	105.06	105.03	105.30	105.23	105.35	104.96	104.82	104.99	105.37		105.68	
31		105.24		105.61	105.32		104.97		104.88	105.51		105.92	
MEAN	105.23	105.27	105.22	105.09	105.09	105.55	105.36	105.07	105.02	105.12	105.43	105.60	
MAX	105.36	106.33	105.49	105.61	105.39	106.16	105.97	105.36	105.57	105.51	105.76	105.92	106.33
MIN	104.97	104.83	104.97	104.81	104.79	105.01	104.96	104.82	104.75	104.71	104.90	105.24	104.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 107.00 M (MSL), AT 1:00 HOURS, ON MAY 23, 1980

ZERO GAGE AT BOTTOM ELEVATION 104.00 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 38862 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	146.00	128.00	170.00	77.09	167.00	73.45	190.00	69.82	58.18	56.73	314.00	258.00	
2	158.00	80.00	72.00	79.27	116.00	77.82	346.00	68.36	72.73	52.36	158.00	186.00	
3	107.00	98.00	75.64	95.00	125.00	86.00	405.00	66.91	71.27	51.64	152.00	282.00	
4	131.00	152.00	104.00	83.00	98.00	116.00	380.00	67.64	74.91	69.82	149.00	234.00	
5	152.00	86.00	128.00	74.18	104.00	149.00	400.00	69.09	76.36	65.45	155.00	238.00	
6	110.00	104.00	131.00	72.73	104.00	218.00	298.00	67.64	65.45	86.00	119.00	242.00	
7	119.00	152.00	122.00	64.00	83.00	254.00	294.00	73.45	140.00	143.00	158.00	234.00	
8	95.00	143.00	206.00	73.45	79.27	354.00	294.00	78.55	80.00	164.00	152.00	238.00	
9	146.00	161.00	134.00	116.00	119.00	455.00	286.00	79.27	194.00	182.00	137.00	134.00	
10	131.00	167.00	198.00	64.73	65.45	455.00	270.00	74.91	116.00	155.00	230.00	258.00	
11	122.00	107.00	182.00	98.00	61.09	346.00	214.00	80.00	65.45	155.00	170.00	234.00	
12	122.00	67.64	178.00	65.45	57.45	282.00	164.00	95.00	64.73	71.27	218.00	254.00	
13	70.55	86.00	122.00	66.18	57.45	278.00	140.00	101.00	64.73	110.00	306.00	270.00	
14	86.00	98.00	167.00	60.36	67.64	238.00	122.00	86.00	77.82	107.00	262.00	298.00	
15	107.00	198.00	137.00	69.82	92.00	206.00	107.00	77.82	69.82	77.09	182.00	314.00	
16	140.00	182.00	74.18	68.36	122.00	202.00	146.00	122.00	143.00	60.36	65.45	146.00	
17	143.00	104.00	92.00	74.91	74.91	190.00	98.00	72.00	238.00	63.27	110.00	246.00	
18	125.00	70.55	92.00	66.18	60.36	234.00	89.00	137.00	210.00	69.82	143.00	258.00	
19	119.00	60.36	76.36	77.82	79.27	298.00	98.00	158.00	79.27	60.36	143.00	262.00	
20	128.00	70.55	70.55	62.54	110.00	366.00	110.00	149.00	71.27	71.27	128.00	234.00	
21	92.00	146.00	104.00	58.91	101.00	500.00	174.00	146.00	64.00	80.00	174.00	226.00	
22	128.00	326.00	98.00	116.00	116.00	342.00	104.00	152.00	60.36	89.00	234.00	242.00	
23	140.00	585.00	78.55	152.00	119.00	274.00	83.00	74.18	69.09	137.00	190.00	122.00	
24	128.00	234.00	119.00	182.00	74.91	218.00	77.82	66.18	67.64	140.00	270.00	258.00	
25	116.00	149.00	152.00	182.00	66.91	194.00	75.64	77.82	63.27	134.00	230.00	254.00	
26	116.00	131.00	152.00	186.00	64.00	186.00	73.45	92.00	61.82	64.73	258.00	314.00	
27	122.00	149.00	122.00	140.00	72.73	152.00	72.73	104.00	58.91	101.00	274.00	282.00	
28	92.00	92.00	83.00	74.18	79.27	125.00	79.27	68.36	56.00	146.00	246.00	290.00	
29	119.00	143.00	101.00	72.00	95.00	143.00	74.18	61.82	54.55	146.00		274.00	
30	134.00	77.09	74.91	140.00	119.00	155.00	69.82	59.64	72.00	161.00		282.00	
31		122.00		254.00	146.00		70.55		64.00	214.00		380.00	
TOTAL	3644.55	4469.19	3616.19	3066.16	2896.71	7167.27	5405.46	2695.46	2724.63	3284.17	5327.45	7744.00	52041.21 CMSDAY
MEAN	121.49	144.17	120.54	98.91	93.44	238.91	174.37	89.85	87.89	105.94	190.27	249.81	142.58 CMS
MAX	158.00	585.00	206.00	254.00	167.00	500.00	405.00	158.00	238.00	214.00	314.00	380.00	585.00 CMS
MIN	70.55	60.36	70.55	58.91	57.45	73.45	69.82	59.64	54.55	51.64	65.45	122.00	51.64 CMS
RUNOFF	314.889	386.138	312.439	264.916	250.276	619.252	467.031	232.888	235.408	283.752	460.292	669.082	4496.359 MCM

MOMENTARY PEAK 980.00 CMS, AT 107.00 M (MSL), AT 1.00 HOURS, ON MAY 23, 1980

RUNOFF YIELD 3.67 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 25.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

MAE TAENG RIVER AT MAE TAENG, CHIANG MAI (P.4A)

LOCATION — LAT. 19°-07'-15" N., LONG. 98°-56'-51" E., ON RIGHT BANK AT THE BRIDGE OF CHIANG MAI-FANG HIGHWAY, AMPHOE MAE TAENG, CHIANG MAI.

DRAINAGE AREA — 1,902 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +333.745 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GATE OF AMPHOE MAE TAENG OFFICE.

ELEVATION — +338.736 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1955 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1955-1960, 1967 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1955-1960, 1967 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1980. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 23,700 HECTARES AT MAE FAEK WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

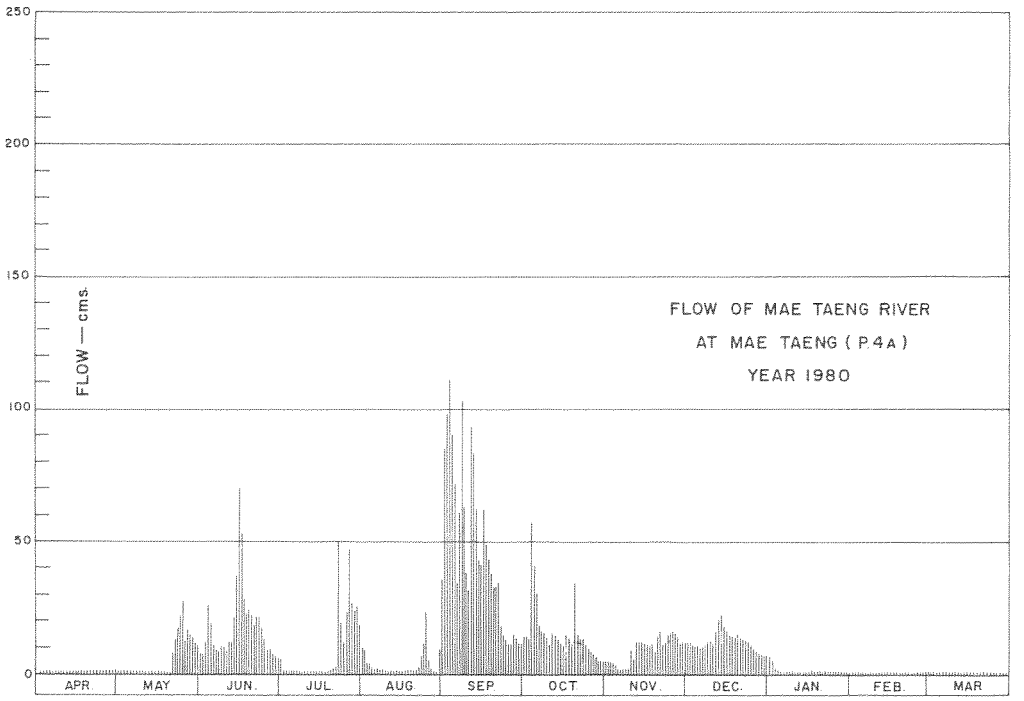
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	334.60	334.59	335.19	335.08	335.31	337.00	335.46	335.03	335.40	335.14	334.62	334.61	
2	334.60	334.59	335.17	334.89	335.23	337.19	335.46	335.03	335.39	335.09	334.63	334.63	
3	334.60	334.58	335.44	334.71	335.02	337.34	335.45	335.02	335.34	334.87	334.62	334.74	
4	334.61	334.59	335.81	334.68	334.99	337.10	336.50	334.98	335.37	334.86	334.63	334.63	
5	334.61	334.58	335.55	334.65	334.92	336.74	336.16	334.91	335.36	334.82	334.62	334.62	
6	334.61	334.58	335.35	334.64	334.91	336.03	335.91	334.89	335.35	334.72	334.61	334.61	
7	334.61	334.58	335.26	334.64	334.87	336.86	335.57	334.88	335.34	334.69	334.61	334.60	
8	334.61	334.58	335.21	334.63	334.86	337.25	335.53	334.87	335.39	334.69	334.61	334.59	
9	334.60	334.58	335.32	334.63	334.85	336.14	335.48	334.88	335.41	334.68	334.61	334.59	
10	334.60	334.57	335.28	334.63	334.84	335.95	335.44	335.26	335.45	334.67	334.61	334.59	
11	334.59	334.57	335.20	334.64	334.83	337.11	335.33	335.09	335.33	334.66	334.61	334.59	
12	334.59	334.57	335.38	334.64	334.82	336.97	335.55	335.38	335.61	334.67	334.63	334.59	
13	334.59	334.58	335.40	334.65	334.81	336.58	335.48	335.38	335.70	334.68	334.62	334.58	
14	334.60	334.58	335.80	334.64	334.81	336.22	335.45	335.39	335.73	334.67	334.62	334.58	
15	334.60	334.58	336.18	334.63	334.81	336.19	335.35	335.38	335.58	334.67	334.63	334.59	
16	334.60	334.57	336.74	334.62	334.81	336.60	335.37	335.37	335.55	334.66	334.62	334.59	
17	334.60	334.57	336.12	334.62	334.80	336.30	335.47	335.36	335.47	334.65	334.61	334.59	
18	334.68	334.57	335.74	334.61	334.79	336.22	335.42	335.40	335.47	334.69	334.60	334.60	
19	334.61	334.57	335.80	334.61	334.82	336.07	335.40	335.20	335.48	334.66	334.59	334.60	
20	334.60	334.58	335.71	334.62	334.80	335.98	336.04	335.48	335.49	334.68	334.59	334.61	
21	334.60	334.61	335.61	334.88	334.82	336.03	335.66	335.53	335.48	334.67	334.59	334.62	
22	334.59	335.30	335.74	334.94	334.92	335.66	335.45	335.36	335.45	334.67	334.59	334.62	
23	334.59	335.57	335.70	336.37	335.06	335.53	335.44	335.38	335.43	334.66	334.59	334.63	
24	334.59	335.71	335.50	335.54	335.33	335.48	335.34	335.52	335.38	334.66	334.59	334.62	
25	334.59	335.87	335.43	335.29	335.76	335.42	335.26	335.55	335.36	334.66	334.59	334.62	
26	334.60	335.38	335.26	335.77	335.07	335.35	335.21	335.55	335.29	334.67	334.60	334.61	
27	334.61	335.59	335.23	336.30	334.86	335.54	335.15	335.51	335.17	334.67	334.61	334.60	
28	334.62	335.52	335.21	335.86	334.80	335.45	335.09	335.39	335.18	334.66	334.61	334.60	
29	334.61	335.45	335.14	335.75	334.77	335.38	335.04	335.41	335.17	334.66		334.67	
30	334.60	335.39	335.08	335.82	334.81	335.36	335.04	335.40	335.16	334.65		334.62	
31		335.29		335.64	336.04		335.03		335.15	334.64		334.61	
MEAN	334.60	334.86	335.52	335.02	334.97	336.23	335.47	335.26	335.40	334.72	334.61	334.61	
MAX	334.68	335.87	336.74	336.37	336.04	337.34	336.50	335.55	335.73	335.14	334.63	334.74	337.34
MIN	334.59	334.57	335.08	334.61	334.77	335.35	335.03	334.87	335.15	334.64	334.59	334.58	334.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 337.52 M (MSL), AT 6.00 HOURS, ON SEP 3, 1980

ZERO GAGE AT BOTTOM ELEVATION 333.74 M (MSL), RIVER BED 334.45 M (MSL)

LEFT BANK ELEVATION 340.00 M (MSL)

RIGHT BANK ELEVATION 339.60 M (MSL), DRAINAGE AREA 1902 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	8.30	6.10	10.70	86.00	14.20	5.10	12.50	7.30	0.00	0.00	
2	0.00	0.00	7.90	2.40	9.10	99.30	14.20	5.10	12.30	6.30	0.00	0.00	
3	0.00	0.00	13.63	0.60	4.90	110.13	13.92	4.90	11.30	2.20	0.00	0.90	
4	0.00	0.00	25.40	0.30	4.30	93.00	57.00	4.10	11.90	2.10	0.00	0.00	
5	0.00	0.00	16.75	0.00	2.90	70.92	40.00	2.70	11.70	1.70	0.00	0.00	
6	0.00	0.00	11.50	0.00	2.70	34.20	29.40	2.40	11.50	0.70	0.00	0.00	
7	0.00	0.00	9.70	0.00	2.20	77.88	17.32	2.30	11.30	0.40	0.00	0.00	
8	0.00	0.00	8.70	0.00	2.10	103.50	16.18	2.20	12.30	0.40	0.00	0.00	
9	0.00	0.00	10.90	0.00	2.00	39.00	14.77	2.30	12.78	0.30	0.00	0.00	
10	0.00	0.00	10.10	0.00	1.90	31.00	13.63	9.70	13.92	0.20	0.00	0.00	
11	0.00	0.00	8.50	0.00	1.80	93.70	11.10	6.30	11.10	0.10	0.00	0.00	
12	0.00	0.00	12.10	0.00	1.70	84.26	16.75	12.10	18.45	0.20	0.00	0.00	
13	0.00	0.00	12.50	0.00	1.60	61.64	14.77	12.10	21.00	0.30	0.00	0.00	
14	0.00	0.00	25.00	0.00	1.60	43.00	13.92	12.30	22.20	0.20	0.00	0.00	
15	0.00	0.00	41.00	0.00	1.60	41.50	11.50	12.10	17.60	0.20	0.00	0.00	
16	0.00	0.00	70.92	0.00	1.60	62.80	11.90	11.90	16.75	0.10	0.00	0.00	
17	0.00	0.00	38.00	0.00	1.50	47.00	14.48	11.70	14.48	0.00	0.00	0.00	
18	0.30	0.00	22.60	0.00	1.40	43.00	13.07	12.50	14.48	0.40	0.00	0.00	
19	0.00	0.00	25.00	0.00	1.70	35.80	12.50	8.50	14.77	0.10	0.00	0.00	
20	0.00	0.00	21.40	0.00	1.50	32.20	34.60	14.77	15.05	0.30	0.00	0.00	
21	0.00	0.00	18.45	2.30	1.70	34.20	19.87	16.18	14.77	0.20	0.00	0.00	
22	0.00	10.50	22.60	3.30	2.90	19.87	13.92	11.70	13.92	0.20	0.00	0.00	
23	0.00	17.32	21.00	50.50	5.70	16.18	13.63	12.10	13.35	0.10	0.00	0.00	
24	0.00	21.40	15.33	16.47	11.10	14.77	11.30	15.90	12.10	0.10	0.00	0.00	
25	0.00	27.80	13.35	10.30	23.40	13.07	9.70	16.75	11.70	0.10	0.00	0.00	
26	0.00	12.10	9.70	23.80	5.90	11.50	8.70	16.75	10.30	0.20	0.00	0.00	
27	0.00	17.88	9.10	47.00	2.10	16.47	7.50	15.62	7.90	0.20	0.00	0.00	
28	0.00	15.90	8.70	27.40	1.50	13.92	6.30	12.30	8.10	0.10	0.00	0.00	
29	0.00	13.92	7.30	23.00	1.20	12.10	5.30	12.78	7.90	0.10		0.20	
30	0.00	12.30	6.10	25.80	1.60	11.79	5.30	12.50	7.70	0.00		0.00	
31		10.30		19.30	34.60		5.10		7.50	0.00		0.00	
TOTAL	0.30	159.42	531.53	258.57	150.50	1453.61	491.83	297.65	402.62	24.80	0.00	1.10	3771.92 CMSDAY
MEAN	0.01	5.14	17.72	8.34	4.85	48.45	15.87	9.92	12.99	0.80	0.00	0.04	10.33 CMS
MAX	0.30	27.80	70.92	50.50	34.60	110.13	57.00	16.75	22.20	7.30	0.00	0.90	110.13 CMS
MIN	0.00	0.00	6.10	0.00	1.20	11.50	5.10	2.20	7.50	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.026	13.774	45.924	22.340	13.003	125.592	42.494	25.717	34.786	2.143	0.000	0.095	325.894 MCM

MOMENTARY PEAK 124.23 CMS, AT 337.52 M (MSL), AT 6.00 HOURS, ON SEP 3, 1980

RUNOFF YIELD 5.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 65.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE KUANG AT LAMPHUN, LAMPHUN (P.5)

LOCATION — LAT. 18°-34'-32" N., LONG. 99°-00'-44" E., ON RIGHT BANK ABOUT 10 METERS DOWNSTREAM FROM THA SING PHITAK BRIDGE, AMPHOE MUANG, LAMPHUN.

DRAINAGE AREA — 1,569 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +288.50 M.(M.S.L.)

BENCH MARK — B.M.-H.D./R.I.D. NO. 7

LOCATION — ON RIGHT BANK NEAR THE ABUTMENT OF THE BRIDGE.

ELEVATION — +295.680 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1952 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1954-1960, 1967 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1954-1960, 1967 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

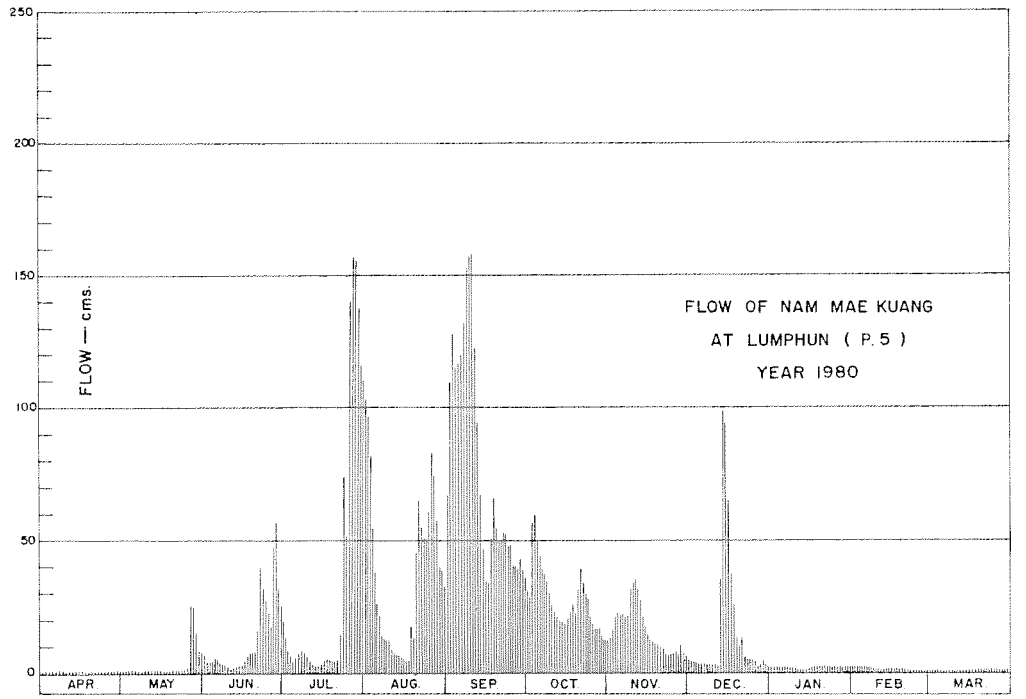
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1980. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 9,600 HECTARES AT MAE KUANG WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	289.06	289.02	289.63	290.11	292.37	291.62	290.64	289.95	289.55	289.32	289.31	289.14	
2	289.07	289.02	289.46	289.90	292.27	292.53	290.54	290.05	289.53	289.35	289.31	289.13	
3	289.07	289.02	289.46	289.69	291.88	292.82	291.36	290.26	289.52	289.34	289.34	289.14	
4	289.07	289.01	289.52	289.51	291.08	292.56	291.42	290.35	289.48	289.34	289.34	289.13	
5	289.07	289.02	289.54	289.43	290.59	292.60	291.18	290.33	289.45	289.40	289.30	289.13	
6	289.06	289.02	289.48	289.66	290.26	292.67	291.08	290.33	289.45	289.34	289.31	289.12	
7	289.06	289.02	289.44	289.71	290.01	292.76	290.88	290.28	289.42	289.33	289.30	289.12	
8	289.06	289.01	289.42	289.71	289.95	293.11	290.81	290.27	289.46	289.30	289.28	289.13	
9	289.06	289.00	289.32	289.66	289.94	293.30	290.70	290.65	289.46	289.31	289.26	289.12	
10	289.06	288.99	289.29	289.57	289.84	293.32	290.54	290.78	289.43	289.30	289.27	289.12	
11	289.06	288.99	289.26	289.47	289.79	292.77	290.39	290.73	289.40	289.26	289.25	289.13	
12	289.06	288.99	289.23	289.37	289.70	292.32	290.32	290.63	289.33	289.20	289.26	289.12	
13	289.06	288.99	289.29	289.31	289.69	291.72	290.20	290.40	290.77	289.20	289.24	289.12	
14	289.06	288.99	289.30	289.34	289.59	291.17	290.18	290.28	292.24	289.24	289.22	289.12	
15	289.06	288.98	289.35	289.41	289.54	290.76	290.15	290.15	292.17	289.28	289.22	289.12	
16	289.07	288.98	289.36	289.53	289.53	290.73	290.27	290.01	291.47	289.26	289.22	289.12	
17	289.07	288.97	289.64	289.57	289.58	291.13	290.37	289.97	290.82	289.33	289.22	289.12	
18	289.07	288.96	289.71	289.54	290.20	291.59	290.45	289.93	290.31	289.34	289.23	289.12	
19	289.06	288.96	289.67	289.49	290.01	291.42	290.31	289.85	289.98	289.37	289.22	289.12	
20	289.06	288.96	289.76	289.51	290.84	291.18	290.64	289.87	289.83	289.33	289.20	289.13	
21	289.06	289.04	290.11	289.47	291.55	291.21	290.90	289.84	289.99	289.38	289.20	289.12	
22	289.06	289.02	290.90	289.56	291.34	291.25	290.77	289.77	289.63	289.34	289.20	289.12	
23	289.06	289.05	290.77	290.39	291.21	291.25	290.59	289.63	289.58	289.33	289.19	289.11	
24	289.05	289.06	290.61	291.77	291.22	291.13	290.54	289.72	289.55	289.35	289.19	289.11	
25	289.04	289.06	290.46	291.23	291.67	291.16	290.25	289.72	289.57	289.33	289.19	289.11	
26	289.03	289.38	290.15	292.47	291.93	290.93	290.17	289.75	289.49	289.34	289.17	289.10	
27	289.03	290.45	291.15	293.02	291.73	290.93	290.13	289.69	289.38	289.33	289.17	289.10	
28	289.03	290.43	291.35	293.30	291.32	291.01	290.17	289.88	289.43	289.34	289.15	289.10	
29	289.03	290.00	290.79	293.27	290.91	290.97	290.00	289.68	289.49	289.37		289.10	
30	289.02	289.78	290.37	293.10	290.88	290.83	289.97	289.62	289.46	289.35		289.09	
31		289.70		292.61	290.66		289.97		289.36	289.33		289.11	
MEAN	289.06	289.19	289.86	290.38	290.68	291.76	290.51	290.08	289.87	289.32	289.24	289.12	
MAX	289.07	290.45	291.35	293.30	292.37	293.32	291.42	290.78	292.24	289.40	289.34	289.14	293.32
MIN	289.02	288.96	289.23	289.31	289.53	290.73	289.97	289.62	289.33	289.20	289.15	289.09	288.96

ANNUAL MAX MOMENTARY GAGE HEIGHT 293.35 M (MSL), AT 9.00 HOURS, ON SEP 10, 1980
ZERO GAGE AT BOTTOM ELEVATION 288.50 M (MSL), RIVER BED 288.91 M (MSL)
LEFT BANK ELEVATION 294.58 M (MSL)
RIGHT BANK ELEVATION 295.77 M (MSL), DRAINAGE AREA 1569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.10	6.45	16.25	104.50	67.40	30.70	12.25	5.25	2.20	2.10	0.70	
2	0.35	0.10	3.90	11.00	99.50	112.50	27.70	14.75	4.95	2.50	2.10	0.65	
3	0.35	0.10	3.90	7.35	80.00	128.20	56.60	20.00	4.80	2.40	2.40	0.70	
4	0.35	0.05	4.80	4.65	45.80	114.00	59.08	22.25	4.20	2.40	2.40	0.65	
5	0.35	0.10	5.10	3.45	29.20	116.00	49.30	21.75	3.75	3.00	2.00	0.65	
6	0.30	0.10	4.20	6.90	20.00	119.50	45.80	21.75	3.75	2.40	2.10	0.60	
7	0.30	0.10	3.60	7.65	13.75	124.60	38.80	20.50	3.30	2.30	2.00	0.60	
8	0.30	0.05	3.30	7.65	12.25	145.60	36.35	20.25	3.90	2.00	1.80	0.65	
9	0.30	0.00	2.20	6.90	12.00	157.00	32.50	31.00	3.90	2.10	1.60	0.60	
10	0.30	0.00	1.90	5.55	9.80	158.20	27.70	35.30	3.45	2.00	1.70	0.60	
11	0.30	0.00	1.60	4.05	8.85	125.20	23.25	33.55	3.00	1.60	1.90	0.65	
12	0.30	0.00	1.30	2.70	7.50	102.00	21.50	30.40	2.30	1.00	1.60	0.60	
13	0.30	0.00	1.90	2.10	7.35	72.00	18.50	23.50	34.95	1.00	1.40	0.60	
14	0.30	0.00	2.00	2.40	5.85	48.95	18.00	20.50	98.00	1.40	1.20	0.60	
15	0.30	0.00	2.50	3.15	5.10	34.60	17.25	17.25	94.50	1.80	1.20	0.60	
16	0.35	0.00	2.60	4.95	4.95	33.55	20.25	13.75	61.14	1.60	1.20	0.60	
17	0.35	0.00	6.60	5.55	5.70	47.55	22.75	12.75	36.70	2.30	1.20	0.60	
18	0.35	0.00	7.65	5.10	18.50	66.09	25.00	11.75	21.25	2.40	1.30	0.60	
19	0.30	0.00	7.05	4.35	13.75	59.08	21.25	10.00	13.00	2.70	1.20	0.60	
20	0.30	0.00	8.40	4.65	37.40	49.30	30.70	10.40	9.60	2.30	1.00	0.65	
21	0.30	0.20	16.25	4.05	64.44	50.41	39.50	9.80	13.25	2.80	1.00	0.60	
22	0.30	0.10	39.50	5.40	55.78	52.06	34.95	8.55	6.45	2.40	1.00	0.60	
23	0.30	0.25	34.95	23.25	50.41	52.06	29.20	6.45	5.70	2.30	0.95	0.55	
24	0.25	0.30	29.80	74.50	50.83	47.55	27.70	7.80	5.25	2.50	0.95	0.55	
25	0.20	0.30	25.30	51.24	69.65	48.60	19.75	7.80	5.55	2.30	0.95	0.55	
26	0.15	2.80	17.25	109.50	82.50	40.55	17.75	8.25	4.35	2.40	0.85	0.50	
27	0.15	25.00	48.25	140.20	72.50	40.55	16.75	7.35	2.80	2.30	0.85	0.50	
28	0.15	24.40	56.19	157.00	54.95	43.35	17.75	10.60	3.45	2.40	0.75	0.50	
29	0.15	13.50	35.65	155.20	39.85	41.95	13.50	7.20	4.35	2.70		0.50	
30	0.10	8.70	22.75	145.00	38.80	37.05	12.75	6.30	3.90	2.50		0.45	
31		7.50		116.50	31.30		12.75		2.60	2.30		0.55	
TOTAL	8.40	83.75	406.84	1098.19	1152.76	2335.45	865.33	483.75	473.34	68.30	40.30	18.35	7034.75 CMSDAY
MEAN	0.28	2.70	13.56	35.43	37.19	77.85	27.91	16.12	15.27	2.20	1.44	0.59	19.27 CMS
MAX	0.35	25.00	56.19	157.00	104.50	158.20	59.08	35.30	98.00	3.00	2.40	0.70	158.20 CMS
MIN	0.10	0.00	1.30	2.10	4.95	33.55	12.75	6.30	2.30	1.00	0.75	0.45	0.00 CMS
RUNOFF	0.726	7.236	35.151	94.884	99.598	201.783	74.764	41.796	40.897	5.901	3.482	1.585	607.802 MCM

MOMENTARY PEAK 160.00 CMS, AT 293.35 M (MSL), AT 9.00 HOURS, ON SEP 10, 1980

RUNOFF YIELD 12.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 101.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

PING RIVER AT KAMPHAENG PHET, KAMPHAENG PHET (P.7A)

LOCATION — LAT. 16°-28'-38" N., LONG. 99°-31'-06" E., ON RIGHT BANK ABOUT 100 METERS UPSTREAM FROM KAMPHAENG PHET BRIDGE, BAN NAKHON CHUM, AMPHOE MUANG, KAMPHAENG PHET.

DRAINAGE AREA — 42,700 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +72.00 M. (M.S.L.)

BENCH MARK — B.M.-M.D./R.I.D.

LOCATION — NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +77.717 M. (M.S.L.)

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 — 1960-1961, 1967 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960-1961, 1967 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +76.41 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW COMPLETELY REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION OF ABOUT 40,300 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

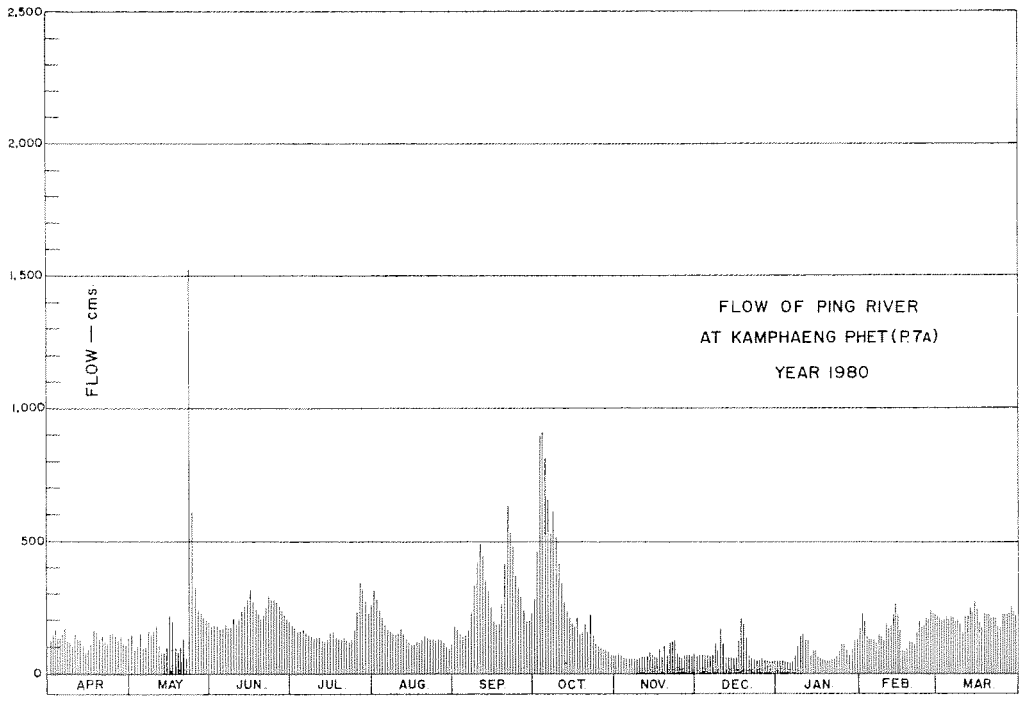
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	73.62	73.72	73.80	73.85	74.29	73.81	74.17	73.40	73.35	73.28	74.06	73.98	
2	73.76	73.70	73.88	73.80	74.17	73.72	74.66	73.39	73.35	73.28	74.02	73.94	
3	73.83	73.48	73.83	73.76	74.08	73.69	75.61	73.36	73.35	73.27	73.66	73.89	
4	73.62	73.52	73.78	73.72	74.02	73.67	75.65	73.34	73.37	73.27	73.63	73.98	
5	73.71	73.76	73.78	73.77	73.89	73.71	75.44	73.32	73.38	73.25	73.62	73.93	
6	73.83	73.48	73.83	73.73	73.83	73.75	75.06	73.31	73.39	73.24	73.63	73.97	
7	73.62	73.53	73.82	73.70	73.76	73.97	74.81	73.31	73.37	73.30	73.54	73.92	
8	73.65	73.77	73.80	73.66	73.71	74.22	75.00	73.31	73.58	73.53	73.70	73.93	
9	73.53	73.70	73.93	73.63	73.72	74.55	74.83	73.33	73.44	73.67	73.66	73.86	
10	73.75	73.60	73.82	73.63	73.72	74.77	74.58	73.36	73.82	73.73	73.64	73.69	
11	73.69	73.83	73.94	73.62	73.79	74.71	74.37	73.34	73.53	73.63	73.88	73.96	
12	73.63	73.53	74.01	73.64	73.74	74.44	74.15	73.35	73.34	73.63	73.75	73.93	
13	73.65	73.43	74.10	73.62	73.69	74.27	74.00	73.42	73.33	73.37	74.00	74.07	
14	73.43	73.49	74.12	73.59	73.61	74.18	74.01	73.43	73.33	73.45	74.14	74.03	
15	73.46	73.54	74.30	73.62	73.55	73.99	73.89	73.36	73.36	73.44	74.01	74.19	
16	73.58	73.99	74.28	73.73	73.54	73.88	73.81	73.34	73.33	73.34	73.76	74.03	
17	73.79	73.89	74.02	73.70	73.60	73.84	73.93	73.50	73.60	73.31	73.43	73.77	
18	73.78	73.61	74.05	73.65	73.56	73.86	73.73	73.32	73.93	73.29	73.51	74.03	
19	73.68	73.43	74.00	73.63	73.55	74.19	73.70	73.57	73.81	73.28	73.59	74.02	
20	73.64	73.45	73.92	73.60	73.65	74.54	73.87	73.35	73.41	73.27	73.61	74.02	
21	73.69	73.71	74.06	73.62	73.69	75.06	73.71	73.61	73.34	73.28	73.54	73.93	
22	73.52	73.39	74.23	73.62	73.65	74.88	73.98	73.61	73.30	73.34	73.77	73.97	
23	73.68	76.76	74.19	73.61	73.63	74.67	73.68	73.65	73.29	73.38	73.90	73.94	
24	73.76	75.33	74.17	73.66	73.64	74.39	73.57	73.36	73.29	73.55	73.84	73.70	
25	73.71	74.55	74.18	73.77	73.65	74.27	73.52	73.34	73.30	73.58	73.97	74.02	
26	73.66	74.22	74.13	74.10	73.65	74.14	73.49	73.37	73.30	73.54	73.93	74.03	
27	73.63	74.06	74.06	74.34	73.61	74.05	73.48	73.39	73.28	73.33	74.05	74.00	
28	73.67	74.01	73.99	74.27	73.57	73.91	73.46	73.43	73.27	73.42	74.03	74.12	
29	73.54	73.88	73.95	74.05	73.53	73.89	73.44	73.36	73.26	73.60		74.06	
30	73.63	73.91	73.90	74.00	73.49	74.07	73.40	73.35	73.26	73.62		73.99	
31		73.83		74.16	73.63		73.39		73.28	73.69		74.20	
MEAN	73.66	73.88	74.00	73.77	73.72	74.17	74.14	73.40	73.40	73.42	73.78	73.97	
MAX	73.83	76.76	74.30	74.34	74.29	75.06	75.65	73.65	73.93	73.73	74.14	74.20	76.76
MIN	73.43	73.39	73.78	73.59	73.49	73.67	73.39	73.31	73.26	73.24	73.43	73.69	73.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 77.14 M (MSL), AT 6.00 HOURS, ON MAY 23, 1980

ZERO GAGE AT BOTTOM ELEVATION 72.00 M (MSL), RIVER BED 71.92 M (MSL)

LEFT BANK ELEVATION 76.40 M (MSL)

RIGHT BANK ELEVATION 76.50 M (MSL), DRAINAGE AREA 42700 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	121.20	147.20	168.00	181.00	311.50	170.60	271.00	70.00	60.00	46.00	238.00	214.80	
2	157.60	142.00	188.80	168.00	271.00	147.20	454.00	68.00	60.00	46.00	226.00	204.40	
3	175.80	86.00	175.80	157.60	244.00	139.40	885.00	62.00	60.00	44.00	131.60	191.40	
4	121.20	95.20	162.80	147.20	226.00	134.20	905.00	58.00	64.00	44.00	123.80	214.80	
5	144.60	157.60	162.80	160.20	191.40	144.60	800.00	54.00	66.00	40.00	121.20	201.80	
6	175.80	86.00	175.80	149.80	175.80	155.00	627.00	52.00	68.00	38.00	123.80	212.20	
7	121.20	97.80	173.20	142.00	157.60	212.20	514.50	52.00	64.00	50.00	100.40	199.20	
8	129.00	160.20	168.00	131.60	144.60	287.00	600.00	52.00	110.80	97.80	142.00	201.80	
9	97.80	142.00	201.80	123.80	147.20	410.00	523.50	56.00	78.00	134.20	131.60	183.60	
10	155.00	168.00	173.20	123.80	147.20	498.00	422.00	62.00	173.20	149.80	126.40	139.40	
11	139.40	175.80	204.40	121.20	165.40	474.00	339.50	58.00	97.80	123.80	188.80	209.60	
12	123.80	97.80	223.00	126.40	152.40	366.00	265.00	60.00	58.00	123.80	155.00	201.80	
13	129.00	76.00	250.00	121.20	139.40	304.50	220.00	74.00	56.00	64.00	220.00	241.00	
14	76.00	88.00	256.00	113.40	118.60	274.00	223.00	76.00	56.00	80.00	262.00	229.00	
15	82.00	100.40	315.00	121.20	103.00	217.40	191.40	62.00	62.00	78.00	223.00	277.00	
16	110.80	217.40	308.00	149.80	100.40	188.80	170.60	58.00	56.00	58.00	157.60	229.00	
17	165.40	191.40	226.00	142.00	116.00	178.40	201.80	90.00	116.00	52.00	76.00	160.20	
18	162.80	118.60	235.00	129.00	105.60	183.60	149.80	54.00	201.80	48.00	92.60	229.00	
19	136.80	76.00	220.00	123.80	103.00	277.00	142.00	108.20	170.60	46.00	113.40	226.00	
20	126.40	80.00	199.20	116.00	129.00	406.00	186.20	60.00	72.00	44.00	118.60	226.00	
21	139.40	144.60	238.00	121.20	139.40	627.00	144.60	118.60	58.00	48.00	100.40	201.80	
22	95.20	68.00	290.50	121.20	129.00	546.00	214.80	118.60	50.00	58.00	160.20	212.20	
23	136.80	1526.00	277.00	118.60	123.80	458.00	136.80	129.00	48.00	66.00	194.00	204.40	
24	157.60	748.50	271.00	131.60	126.40	346.50	108.20	62.00	48.00	103.00	178.40	142.00	
25	144.60	410.00	274.00	160.20	129.00	304.50	95.20	58.00	50.00	110.80	212.20	226.00	
26	131.60	287.00	259.00	250.00	129.00	262.00	88.00	64.00	50.00	100.40	201.80	229.00	
27	123.80	238.00	238.00	329.00	118.60	235.00	86.00	68.00	46.00	56.00	235.00	220.00	
28	134.20	223.00	217.40	304.50	108.20	196.60	82.00	76.00	44.00	74.00	229.00	256.00	
29	100.40	188.80	207.00	235.00	97.80	191.40	78.00	62.00	42.00	116.00		238.00	
30	123.80	196.60	194.00	220.00	88.00	241.00	70.00	60.00	42.00	121.20		217.40	
31		175.80		268.00	123.80		68.00		46.00	139.40		280.00	
TOTAL	3939.00	6709.70	6652.70	5008.30	4562.10	8575.90	9262.89	2102.40	2274.20	2398.20	4582.80	6618.80	62686.94 CMSDAY
MEAN	131.30	216.44	221.76	161.56	147.16	285.86	298.80	70.08	73.36	77.36	163.67	213.51	171.75 CMS
MAX	175.80	1526.00	315.00	329.00	311.50	627.00	905.00	129.00	201.80	149.80	262.00	280.00	1526.00 CMS
MIN	76.00	68.00	162.80	113.40	88.00	134.20	68.00	52.00	42.00	38.00	76.00	139.40	38.00 CMS
RUNOFF	340.329	579.718	574.793	432.717	394.186	740.957	800.314	181.647	196.491	207.204	395.954	571.864	5416.151 MCM

MOMENTARY PEAK 1754.01 CMS, AT 77.14 M (MSL), AT 6.00 HOURS, ON MAY 23, 1980

RUNOFF YIELD 4.02 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 41.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

PING RIVER AT WANG KRA CHAO, TAK (P.12)

LOCATION — LAT. 17°-14'-30" N., LONG. 99°-00'-45" E., ON RIGHT BANK ABOUT 4 KILOMETERS DOWNSTREAM FROM PHUMIPHOL DAM RESERVOIR, AT WANG KRA CHAO, AMPHOE SAM NGAO, TAK.

DRAINAGE AREA — 26,396 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +133.00 M.(M.S.L.)

BENCH MARK — B.M.-M.D.

LOCATION — ABOUT 25 METERS NORTH OF THE GAGE SITE.

ELEVATION — +143.825 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1952 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1952 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1952 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

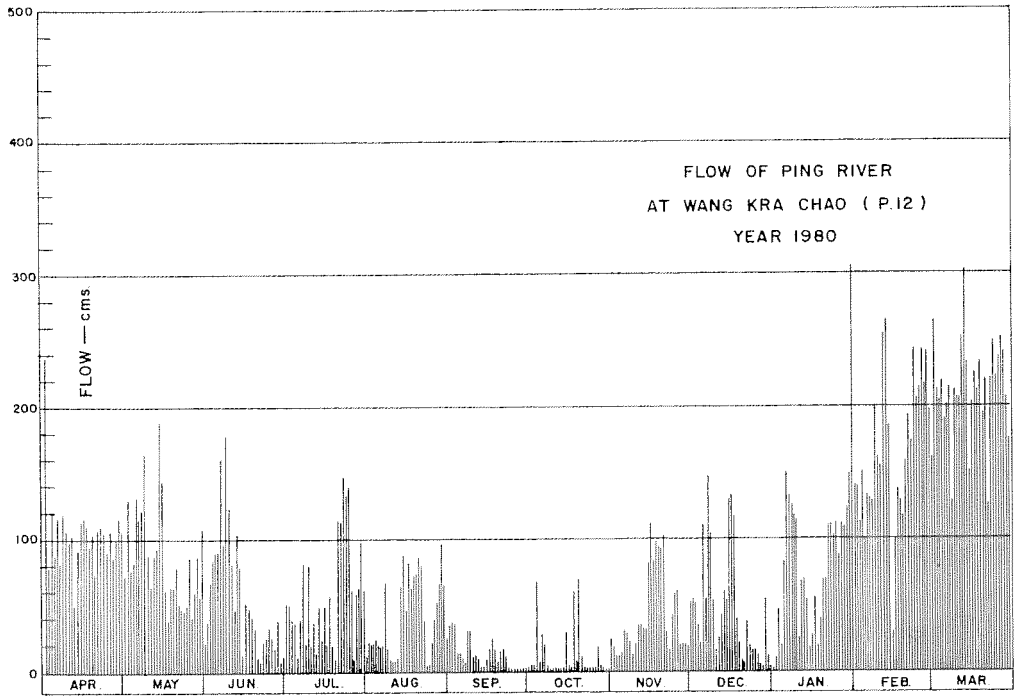
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION OF ABOUT 28,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.95	133.78	133.15	133.06	132.99	133.38	132.77	133.23	133.60	132.76	134.37	134.50	
2	133.85	133.93	133.54	133.58	133.20	133.43	132.87	133.17	133.63	132.93	134.35	135.10	
3	134.05	134.28	133.78	133.55	133.18	133.41	132.82	133.01	133.57	133.54	134.15	134.81	
4	134.22	133.82	133.91	133.40	133.25	132.99	133.75	133.03	133.62	133.12	134.44	134.77	
5	133.94	133.89	133.97	133.38	133.17	133.06	132.84	133.03	133.17	133.77	134.05	134.85	
6	134.18	134.30	133.97	132.93	133.10	132.99	133.29	133.33	134.14	134.44	134.30	134.69	
7	133.87	134.16	134.50	133.54	133.18	132.86	133.12	133.31	133.61	134.30	134.30	134.86	
8	134.21	134.28	134.02	133.89	133.77	133.34	132.80	133.23	134.40	134.31	134.26	134.28	
9	134.09	134.53	134.64	133.14	133.05	133.34	132.78	133.00	133.92	134.21	134.74	134.84	
10	134.01	134.01	134.13	133.87	132.91	132.96	132.74	133.12	133.05	134.17	134.50	134.78	
11	134.07	133.70	133.84	133.12	132.80	133.03	132.78	133.38	133.13	133.26	134.46	134.78	
12	133.55	133.93	133.53	133.42	132.82	132.95	132.74	133.41	133.39	133.76	135.05	135.04	
13	133.93	133.96	134.07	132.98	133.36	132.77	132.73	133.35	133.70	133.77	135.10	134.90	
14	134.00	134.53	133.83	133.55	133.77	132.75	132.73	133.35	133.63	133.59	134.65	135.31	
15	134.15	134.68	132.96	133.20	133.94	132.91	133.33	133.88	134.29	133.11	133.32	134.44	
16	134.17	134.05	133.60	133.55	133.47	133.02	132.81	134.15	134.32	133.48	134.05	134.79	
17	134.10	133.65	133.57	133.14	133.88	133.22	132.77	133.91	134.27	133.63	134.33	134.88	
18	134.00	133.42	133.49	133.64	133.67	133.26	133.68	134.05	133.55	133.15	134.28	134.82	
19	134.07	133.70	133.37	133.11	133.80	132.83	132.67	133.99	133.22	133.58	134.19	134.94	
20	133.79	133.69	133.29	132.91	133.80	133.03	133.78	133.98	132.93	133.78	134.51	134.71	
21	134.11	133.87	132.94	134.16	133.93	133.06	132.99	134.06	132.84	133.78	134.70	134.86	
22	134.13	133.57	132.86	134.15	133.86	133.13	132.78	133.35	133.43	134.13	134.59	134.25	
23	134.09	133.55	133.16	134.40	133.28	132.78	132.74	133.07	133.17	134.15	134.99	134.85	
24	133.96	133.50	133.25	134.30	132.81	132.73	132.75	133.53	133.09	134.07	134.78	135.00	
25	134.04	133.56	133.36	134.36	132.83	132.73	132.76	133.66	133.13	134.17	134.86	134.87	
26	134.10	133.93	133.25	133.89	133.33	132.72	132.74	133.69	133.02	133.95	134.98	134.95	
27	133.91	133.45	133.07	132.94	133.52	132.72	133.16	133.13	132.87	134.15	134.84	135.04	
28	134.06	133.69	133.43	133.66	133.66	132.72	132.80	133.19	132.79	134.10	134.97	134.97	
29	134.19	133.94	132.87	133.70	133.86	132.72	132.78	133.21	133.62	134.28		134.73	
30	134.12	133.63	132.89	134.19	134.01	132.72	132.77	133.13	133.00	134.42		134.47	
31		134.11		133.68	133.23		132.74		132.82	135.33		135.48	
MEAN	134.06	133.91	133.54	133.56	133.40	132.99	132.94	133.43	133.45	133.84	134.50	134.82	
MAX	134.95	134.68	134.64	134.40	134.01	133.43	133.78	134.15	134.40	135.33	135.10	135.48	135.48
MIN	133.55	133.42	132.86	132.91	132.80	132.72	132.73	133.00	132.79	132.76	133.32	134.25	132.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 136.01 M (MSL), AT 17.00 HOURS, ON MAR 12, 1980
ZERO GAGE AT BOTTOM ELEVATION 133.00 M (MSL), RIVER BED 131.51 M (MSL)
LEFT BANK ELEVATION 149.09 M (MSL)
RIGHT BANK ELEVATION 150.72 M (MSL), DRAINAGE AREA 26396 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	237.00	70.00	19.50	15.00	11.60	34.40	3.40	23.80	52.00	3.20	141.80	160.00	
2	77.00	85.60	47.20	50.40	22.00	38.40	6.80	20.50	55.00	9.20	139.00	264.00	
3	100.00	129.20	70.00	48.00	21.00	36.80	4.80	12.50	49.60	47.20	112.00	211.80	
4	120.80	74.00	83.20	36.00	25.00	11.60	67.00	13.50	54.00	18.00	151.60	204.60	
5	86.80	81.00	90.40	34.40	20.50	15.00	5.60	13.50	20.50	69.00	100.00	219.00	
6	115.60	132.00	90.40	9.20	17.00	11.60	27.40	30.40	110.80	151.60	132.00	190.40	
7	79.00	113.20	160.00	47.20	21.00	6.40	18.00	28.80	53.00	132.00	132.00	220.80	
8	119.40	129.20	96.40	81.00	69.00	31.20	4.00	23.80	146.00	133.40	126.40	129.20	
9	104.80	164.80	182.40	19.00	14.50	31.20	3.60	12.00	84.40	119.40	199.20	217.20	
10	95.20	95.20	109.60	79.00	8.40	10.40	2.80	18.00	14.50	114.40	160.00	206.40	
11	102.40	52.00	76.00	18.00	4.00	13.50	3.60	34.40	18.50	25.60	154.40	206.40	
12	48.00	85.60	46.40	37.60	4.80	10.00	2.80	36.80	35.20	68.00	255.00	253.20	
13	85.60	89.20	102.40	11.20	32.80	3.40	2.60	32.00	62.00	69.00	264.00	228.00	
14	94.00	164.80	75.00	48.00	69.00	3.00	2.60	32.00	55.00	51.20	184.00	302.00	
15	112.00	188.80	10.40	22.00	86.80	8.40	30.40	80.00	130.60	17.50	29.60	151.60	
16	114.40	100.00	52.00	48.00	41.60	13.00	4.40	112.00	134.80	42.40	100.00	208.20	
17	106.00	57.00	49.60	19.00	80.00	23.20	3.40	83.20	127.80	55.00	136.20	224.40	
18	94.00	37.60	43.20	56.00	59.00	25.60	60.00	100.00	48.00	19.50	129.20	213.60	
19	102.40	62.00	33.60	17.50	72.00	5.20	6.80	92.80	23.20	50.40	116.80	235.20	
20	71.00	61.00	27.40	8.40	72.00	13.50	70.00	91.60	9.20	70.00	161.60	193.80	
21	107.20	79.00	9.60	113.20	85.60	15.00	11.60	101.20	5.60	70.00	192.00	220.80	
22	109.60	49.60	6.40	112.00	78.00	18.50	3.60	32.00	38.40	109.60	174.40	125.00	
23	104.80	48.00	20.00	146.00	26.80	3.60	2.80	15.50	20.50	112.00	244.20	219.00	
24	89.20	44.00	25.00	132.00	4.40	2.60	3.00	46.40	16.50	102.40	206.40	246.00	
25	98.80	48.80	32.80	140.40	5.20	2.60	3.20	58.00	18.50	114.40	220.80	222.60	
26	106.00	85.60	25.00	81.00	30.40	2.40	2.80	61.00	13.00	88.00	242.40	237.00	
27	83.20	40.00	15.50	9.60	45.60	2.40	20.00	18.50	6.80	112.00	217.20	253.20	
28	101.20	61.00	38.40	58.00	58.00	2.40	4.00	21.50	3.80	106.00	240.60	240.60	
29	116.80	86.80	6.80	62.00	78.00	2.40	3.60	22.60	54.00	129.20		197.40	
30	108.40	55.00	7.60	116.80	95.20	2.40	3.40	18.50	12.00	148.80		155.80	
31		107.20		60.00	23.80		2.80		4.80	306.00		336.00	
TOTAL	3090.60	2687.20	1652.20	1735.90	1283.00	400.10	390.80	1286.80	1478.00	2664.40	4662.80	6693.20	28024.96 CMSDAY
MEAN	103.02	86.68	55.07	56.00	41.39	13.34	12.61	42.89	47.68	85.95	166.53	215.91	76.78 CMS
MAX	237.00	188.80	182.40	146.00	95.20	38.40	70.00	112.00	146.00	306.00	264.00	336.00	336.00 CMS
MIN	48.00	37.60	6.40	8.40	4.00	2.40	2.60	12.00	3.80	3.20	29.60	125.00	2.40 CMS
RUNOFF	267.028	232.174	142.750	149.982	110.851	34.569	33.765	111.179	127.699	230.204	402.866	578.292	2421.356 MCM

MOMENTARY PEAK 444.20 CMS, AT 136.01 M (MSL), AT 17.00 HOURS, ON MAR 12, 1980

RUNOFF YIELD 2.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 16.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

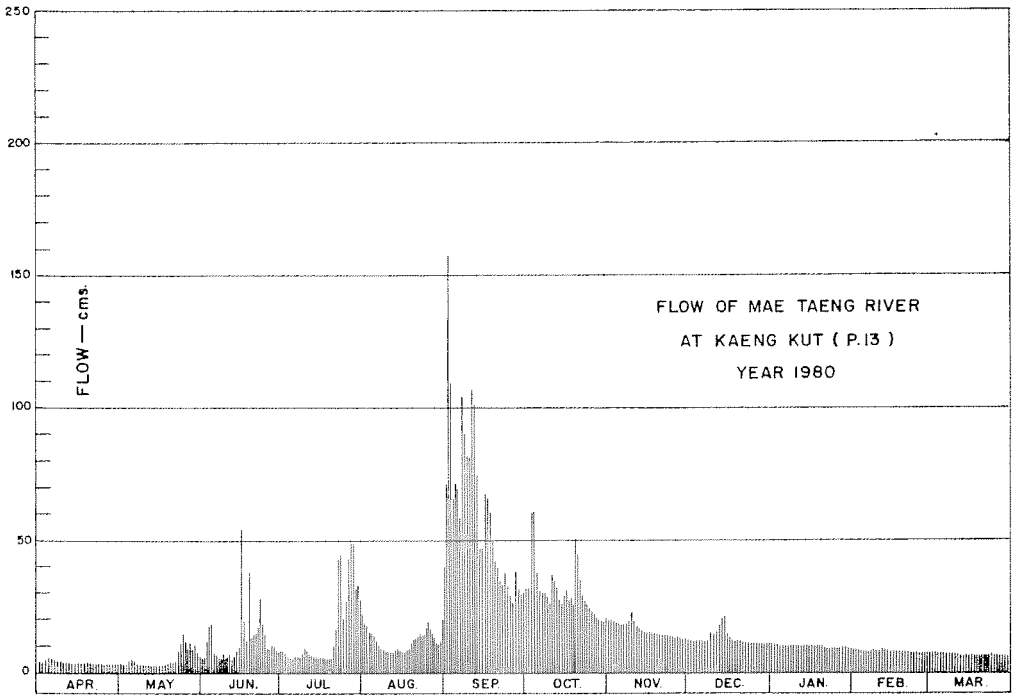
MAE TAENG RIVER AT KAENG KUT, CHIANG MAI (P.13)

LOCATION	LAT. 19°-12'-38" N., LONG 98°-52'-20" E., ON LEFT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM BAN MUANG KUT, AMPHOE MAE TAENG, CHIANG MAI.
DRAINAGE AREA	1,765 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+441.121 M. (M.S.L.)
BENCH MARK	B.M./R.I.D. NO.6
LOCATION	IN THE VICINITY OF GAGE OBSERVER'S HOUSE.
ELEVATION	+455.425 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1952 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1952 - 1971
RATED BY FLOAT	-
RATED BY CURRENT METER	1952 - 1971
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 571 DISCHARGE MEASUREMENTS MADE DURING 1969-1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	441.57	441.54	441.65	441.82	442.17	442.87	442.45	442.20	441.99	441.92	441.85	441.76	
2	441.56	441.54	441.65	441.80	442.14	443.67	442.41	442.20	441.99	441.92	441.85	441.76	
3	441.69	441.52	442.13	441.73	442.07	443.24	442.84	442.18	441.98	441.92	441.84	441.75	
4	441.65	441.58	442.14	441.70	442.07	442.88	442.83	442.18	441.98	441.91	441.84	441.75	
5	441.61	441.67	441.90	441.67	441.97	442.95	442.60	442.16	441.98	441.91	441.83	441.75	
6	441.60	441.65	441.78	441.70	441.93	442.81	442.49	442.15	441.97	441.90	441.82	441.74	
7	441.59	441.59	441.71	441.70	441.91	443.26	442.40	442.14	441.96	441.90	441.81	441.74	
8	441.61	441.55	441.68	441.73	441.87	443.18	442.39	442.14	441.96	441.90	441.82	441.76	
9	441.58	441.54	441.76	441.82	441.86	443.07	442.36	442.18	441.96	441.89	441.82	441.76	
10	441.58	441.53	441.69	441.85	441.84	443.06	442.32	442.26	442.06	441.89	441.82	441.75	
11	441.56	441.52	441.75	441.77	441.82	443.28	442.51	442.14	442.03	441.89	441.82	441.75	
12	441.56	441.51	441.69	441.75	441.80	443.22	442.45	442.12	442.12	441.89	441.82	441.74	
13	441.55	441.51	441.73	441.71	441.79	442.85	442.38	442.11	442.20	441.90	441.84	441.74	
14	441.55	441.51	441.82	441.71	441.84	442.66	442.33	442.10	442.25	441.89	441.82	441.74	
15	441.54	441.50	441.87	441.70	441.79	442.71	442.32	442.08	442.09	441.89	441.81	441.73	
16	441.54	441.49	442.76	441.70	441.82	442.91	442.41	442.08	442.02	441.88	441.80	441.73	
17	441.64	441.49	442.19	441.71	441.85	442.89	442.35	442.07	441.99	441.88	441.80	441.73	
18	441.71	441.48	441.93	441.68	441.87	442.77	442.36	442.06	441.98	441.88	441.80	441.72	
19	441.62	441.50	442.53	441.66	442.00	442.62	442.33	442.05	441.98	441.88	441.80	441.72	
20	441.59	441.57	441.98	441.79	442.01	442.55	442.71	442.05	441.97	441.88	441.79	441.72	
21	441.57	441.61	442.06	442.02	442.01	442.51	442.51	442.04	441.96	441.87	441.79	441.71	
22	441.55	441.61	442.08	442.59	442.06	442.45	442.39	442.04	441.95	441.87	441.78	441.71	
23	441.54	441.87	442.34	442.62	442.05	442.53	442.36	442.04	441.95	441.87	441.78	441.71	
24	441.54	441.96	442.12	442.18	442.03	442.45	442.32	442.04	441.94	441.86	441.78	441.73	
25	441.53	442.04	441.98	442.26	442.19	442.40	442.28	442.05	441.94	441.86	441.77	441.78	
26	441.53	441.80	441.87	442.60	442.09	442.33	442.25	442.04	441.94	441.86	441.77	441.74	
27	441.53	441.95	441.90	442.70	442.04	442.52	442.23	442.02	441.93	441.86	441.76	441.72	
28	441.53	441.80	441.90	442.69	441.96	442.45	442.20	442.01	441.93	441.87	441.76	441.71	
29	441.53	441.93	441.83	442.41	441.92	442.38	442.19	442.00	441.92	441.88		441.71	
30	441.52	441.79	441.80	442.46	441.97	442.38	442.18	442.00	441.92	441.86		441.71	
31		441.73		442.31	442.34		442.21		441.92	441.85		441.70	
MEAN	441.58	441.64	441.94	441.98	441.97	442.79	442.40	442.10	441.99	441.88	441.81	441.73	
MAX	441.71	442.04	442.76	442.70	442.34	443.67	442.84	442.26	442.25	441.92	441.85	441.78	443.67
MIN	441.52	441.48	441.68	441.66	441.79	442.33	442.18	442.00	441.92	441.85	441.76	441.70	441.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 443.80 M (MSL), AT 18.00 HOURS, ON SEP 2, 1980
ZERO GAGE AT BOTTOM ELEVATION 441.12 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 1765 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.77	3.34	5.15	8.74	19.18	63.56	33.80	20.20	13.11	11.08	9.40	7.42	
2	3.62	3.34	5.15	8.30	18.16	156.56	31.40	20.20	13.11	11.08	9.40	7.42	
3	5.91	3.05	17.82	6.76	15.78	102.32	60.92	19.52	12.82	11.08	9.18	7.20	
4	5.15	3.91	18.16	6.10	15.78	64.44	60.04	19.52	12.82	10.79	9.18	7.20	
5	4.39	5.53	10.50	5.53	12.53	70.90	42.80	18.84	12.82	10.79	8.96	7.20	
6	4.20	5.15	7.86	6.10	11.37	58.28	36.20	18.50	12.53	10.50	8.74	6.98	
7	4.06	4.06	6.32	6.10	10.79	104.48	30.80	18.16	12.24	10.50	8.52	6.98	
8	4.39	3.48	5.72	6.76	9.84	95.40	30.22	18.16	12.24	10.50	8.74	7.42	
9	3.91	3.34	7.42	8.74	9.62	82.18	28.48	19.52	12.24	10.28	8.74	7.42	
10	3.91	3.19	5.91	9.40	9.18	81.24	26.16	23.08	15.44	10.28	8.74	7.20	
11	3.62	3.05	7.20	7.64	8.74	106.64	37.40	18.16	14.42	10.28	8.74	7.20	
12	3.62	2.90	5.91	7.20	8.30	100.16	33.80	17.48	17.48	10.28	8.74	6.98	
13	3.48	2.90	6.76	6.32	8.08	61.80	29.64	17.14	20.20	10.50	9.18	6.98	
14	3.48	2.90	8.74	6.32	9.18	46.88	26.74	16.80	22.60	10.28	8.74	6.98	
15	3.34	2.76	9.84	6.10	8.08	50.38	26.16	16.12	16.46	10.28	8.52	6.76	
16	3.34	2.65	54.28	6.10	8.74	67.14	31.40	16.12	14.08	10.06	8.30	6.76	
17	4.96	2.65	19.86	6.32	9.40	65.32	27.90	15.78	13.11	10.06	8.30	6.76	
18	6.32	2.54	11.37	5.72	9.84	55.06	28.48	15.44	12.82	10.06	8.30	6.54	
19	4.58	2.76	38.60	5.34	13.40	44.16	26.74	15.10	12.82	10.06	8.30	6.54	
20	4.06	3.77	12.82	8.08	13.74	39.80	50.38	15.10	12.53	10.06	8.08	6.54	
21	3.77	4.39	15.44	14.08	13.74	37.40	37.40	14.76	12.24	9.84	8.08	6.32	
22	3.48	4.39	16.12	42.20	15.44	33.80	30.22	14.76	11.95	9.84	7.86	6.32	
23	3.34	9.84	27.32	44.16	15.10	38.60	28.48	14.76	11.95	9.84	7.86	6.32	
24	3.34	12.24	17.48	19.52	14.42	33.80	26.16	14.76	11.66	9.62	7.86	6.76	
25	3.19	14.76	12.82	23.08	19.86	30.80	24.04	15.10	11.66	9.62	7.64	7.86	
26	3.19	8.30	9.84	42.80	16.46	26.74	22.60	14.76	11.66	9.62	7.64	6.98	
27	3.19	11.95	10.50	49.60	14.76	38.00	21.64	14.08	11.37	9.62	7.42	6.54	
28	3.19	8.30	10.50	48.92	12.24	33.80	20.20	13.74	11.37	9.84	7.42	6.32	
29	3.19	11.37	8.96	31.40	11.08	29.64	19.86	13.40	11.08	10.06		6.32	
30	3.05	8.08	8.30	34.40	12.53	29.64	19.52	13.40	11.08	9.62		6.32	
31		5.76		25.58	27.32		20.68		11.08	9.40		6.10	
TOTAL	117.04	167.65	402.67	513.41	402.68	1848.92	970.26	502.46	412.99	315.72	236.58	212.64	6103.01 CMSDAY
MEAN	3.90	5.41	13.42	16.56	12.99	61.63	31.30	16.75	13.32	10.18	8.45	6.86	16.72 CMS
MAX	6.32	14.76	54.28	49.60	27.32	156.56	60.92	23.08	22.60	11.08	9.40	7.86	156.56 CMS
MIN	3.05	2.54	5.15	5.34	8.08	26.74	19.52	13.40	11.08	9.40	7.42	6.10	2.54 CMS
RUNOFF	10.112	14.485	34.791	44.359	34.792	159.746	83.830	43.412	35.682	27.278	20.440	18.372	527.300 MCM

MOMENTARY PEAK 175.80 CMS, AT 443.80 M (MSL), AT 18.00 HOURS, ON SEP 2, 1980

RUNOFF YIELD 9.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 99.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

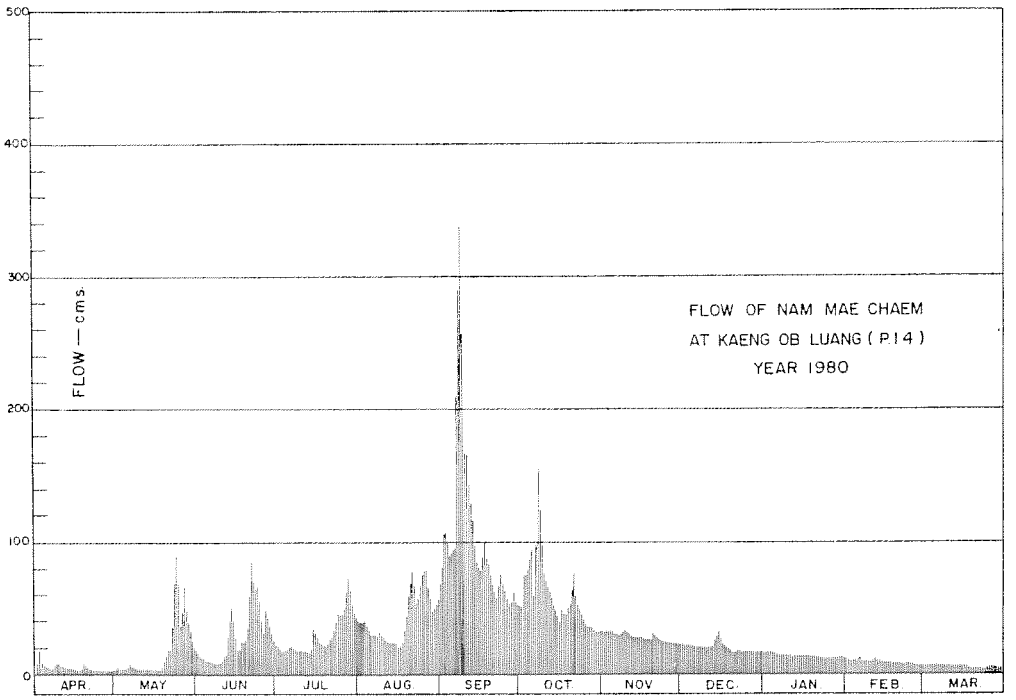
NAM MAE CHAEM AT KAENG OB LUANG, CHIANG MAI (P.14)

LOCATION	LAT. 18°-13'-49" N., LONG. 98°-33'-35" E., ON RIGHT BANK NEAR THE BRIDGE OF HOT-MAE SARIANG HIGHWAY AT KILOMETER MARKER 7+500, AMPHOE HOT, CHIANG MAI.
DRAINAGE AREA	3,853 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+275.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D./R.I.D. NO. 13
LOCATION	ABOUT 10 METERS INFRONT OF AUTOMATIC GAGE BUILDING.
ELEVATION	+282.20 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1953 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	276.74	276.64	276.97	277.08	277.35	277.74	277.51	277.27	277.11	277.00	276.88	276.77	
2	277.06	276.73	276.91	277.05	277.35	278.09	277.77	277.26	277.10	277.00	276.87	276.77	
3	276.81	276.67	276.88	276.99	277.37	278.11	277.79	277.25	277.10	276.99	276.87	276.77	
4	276.75	276.71	276.87	277.02	277.29	277.91	277.88	277.27	277.09	276.99	276.86	276.77	
5	276.73	276.70	276.86	277.05	277.23	277.96	277.98	277.25	277.09	276.98	276.85	276.77	
6	276.71	276.75	276.83	277.08	277.22	277.98	277.60	277.23	277.08	276.96	276.85	276.77	
7	276.71	276.77	276.82	277.06	277.24	279.09	278.06	277.22	277.07	276.94	276.84	276.76	
8	276.78	276.72	276.80	277.03	277.21	279.74	278.49	277.23	277.06	276.94	276.84	276.76	
9	276.80	276.69	276.80	277.03	277.25	279.04	278.08	277.29	277.06	276.94	276.84	276.76	
10	276.76	276.68	276.82	277.02	277.19	278.61	277.77	277.26	277.06	276.93	276.84	276.76	
11	276.73	276.67	276.91	277.01	277.17	278.59	277.71	277.23	277.07	276.93	276.85	276.76	
12	276.72	276.67	276.96	277.00	277.15	278.31	277.62	277.21	277.07	276.93	276.86	276.76	
13	276.71	276.65	277.39	276.99	277.16	278.12	277.58	277.20	277.14	276.94	276.85	276.75	
14	276.70	276.64	277.51	277.05	277.15	277.86	277.47	277.20	277.26	276.94	276.84	276.75	
15	276.69	276.64	277.19	277.26	277.12	277.83	277.37	277.20	277.18	276.94	276.84	276.75	
16	276.68	276.64	277.02	277.19	277.09	277.80	277.36	277.19	277.10	276.94	276.83	276.74	
17	276.67	276.64	277.02	277.13	277.12	278.03	277.45	277.18	277.07	276.94	276.82	276.73	
18	276.66	276.66	277.15	277.10	277.25	277.91	277.43	277.18	277.04	276.93	276.81	276.72	
19	276.79	276.69	277.16	277.07	277.52	277.83	277.51	277.21	277.02	276.93	276.81	276.72	
20	276.74	276.88	277.33	277.07	277.68	277.70	277.63	277.24	277.00	276.92	276.81	276.72	
21	276.70	277.01	277.88	277.17	277.80	277.60	277.79	277.25	277.00	276.91	276.81	276.72	
22	276.68	277.01	277.81	277.21	277.66	277.57	277.54	277.18	277.01	276.90	276.81	276.72	
23	276.67	277.70	277.65	277.35	277.54	277.78	277.47	277.17	277.00	276.90	276.80	276.71	
24	276.66	277.92	277.68	277.43	277.71	277.68	277.41	277.16	277.00	276.90	276.80	276.70	
25	276.66	277.71	277.37	277.43	277.82	277.63	277.35	277.16	277.00	276.90	276.80	276.72	
26	276.65	277.32	277.26	277.42	277.81	277.54	277.31	277.15	277.00	276.90	276.78	276.73	
27	276.65	277.66	277.44	277.64	277.68	277.53	277.31	277.14	277.00	276.90	276.77	276.72	
28	276.65	277.46	277.35	277.75	277.54	277.63	277.29	277.13	277.00	276.89	276.77	276.72	
29	276.64	277.37	277.22	277.55	277.46	277.55	277.27	277.12	277.00	276.91		276.71	
30	276.63	277.16	277.13	277.44	277.49	277.53	277.25	277.12	277.00	276.92		276.70	
31		277.03		277.37	277.58		277.26		277.00	276.90		276.70	
MEAN	276.72	276.94	277.17	277.19	277.39	278.01	277.59	277.20	277.06	276.93	276.83	276.74	
MAX	277.06	277.92	277.88	277.75	277.82	279.74	278.49	277.29	277.26	277.00	276.88	276.77	279.74
MIN	276.63	276.64	276.80	276.99	277.09	277.53	277.25	277.12	277.00	276.89	276.77	276.70	276.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 280.52 M (MSL), AT 18.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 275.80 M (MSL), RIVER BED 275.80 M (MSL)
LEFT BANK ELEVATION 285.18 M (MSL)
RIGHT BANK ELEVATION 286.93 M (MSL), DRAINAGE AREA 3853 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.60	3.66	15.50	21.00	39.00	71.60	51.80	32.90	22.60	17.00	11.20	6.80	
2	20.00	5.20	12.50	19.50	39.00	106.00	74.30	32.20	22.00	17.00	10.80	6.80	
3	8.40	3.83	11.20	16.50	40.60	108.10	76.10	31.50	22.00	16.50	10.80	6.80	
4	6.00	4.40	10.80	18.00	34.30	80.00	85.00	32.90	21.50	16.50	10.40	6.80	
5	5.20	4.00	10.40	19.50	30.10	93.00	95.00	31.50	21.50	16.00	10.00	6.80	
6	4.40	6.00	9.20	21.00	29.40	95.00	59.00	30.10	21.00	15.00	10.00	6.80	
7	4.40	6.80	8.80	20.00	30.80	236.50	103.00	29.40	20.50	14.00	9.60	6.40	
8	7.20	4.80	8.00	18.50	28.70	338.40	152.80	30.10	20.00	14.00	9.60	6.40	
9	8.00	3.94	8.00	18.50	31.50	229.00	105.00	34.30	20.00	14.00	9.60	6.40	
10	6.40	3.89	8.80	18.00	27.40	167.40	74.30	32.20	20.00	13.50	9.60	6.40	
11	5.20	3.83	12.50	17.50	26.20	164.80	68.90	30.10	20.50	13.50	10.00	6.40	
12	4.80	3.83	15.00	17.00	25.00	131.20	60.80	28.70	20.50	13.50	10.40	6.40	
13	4.40	3.71	42.20	16.50	25.60	109.20	57.40	28.00	24.40	14.00	10.00	6.00	
14	4.00	3.66	51.80	19.50	25.00	83.00	48.60	28.00	32.20	14.00	9.60	6.00	
15	3.94	3.66	27.40	32.20	23.20	80.00	40.60	28.00	26.80	14.00	9.60	6.00	
16	3.89	3.66	18.00	27.40	21.50	77.00	39.80	27.40	22.00	14.00	9.20	5.60	
17	3.83	3.66	18.00	23.80	23.20	100.00	47.00	26.80	20.50	14.00	8.80	5.20	
18	3.77	3.77	25.00	22.00	31.50	88.00	45.40	26.80	19.00	13.50	8.40	4.80	
19	7.60	3.94	25.60	20.50	52.60	80.00	51.80	28.70	18.00	13.50	8.40	4.80	
20	5.60	11.20	37.40	20.50	66.20	68.00	61.70	30.80	17.00	13.00	8.40	4.80	
21	4.00	17.50	85.00	26.20	77.00	59.00	76.10	28.00	17.00	12.50	8.40	4.80	
22	3.89	17.50	78.00	28.70	64.40	56.60	54.20	26.80	17.50	12.00	8.40	4.80	
23	3.83	68.00	63.50	39.00	54.20	75.20	48.60	26.20	17.00	12.00	8.00	4.40	
24	3.77	89.00	66.20	45.40	68.90	66.20	43.80	25.60	17.00	12.00	8.00	4.00	
25	3.77	68.90	40.60	45.40	79.00	61.70	39.00	25.60	17.00	12.00	8.00	4.80	
26	3.71	36.60	32.20	44.60	78.00	54.20	35.60	25.00	17.00	12.00	7.20	5.20	
27	3.71	64.40	46.20	62.60	66.20	53.40	35.80	24.40	17.00	12.00	6.80	4.80	
28	3.71	47.80	39.00	72.50	54.20	61.70	34.30	23.80	17.00	11.60	6.80	4.80	
29	3.66	40.60	29.40	55.00	47.80	55.00	32.90	23.20	17.00	12.50		4.40	
30	3.60	25.60	23.80	46.20	50.20	53.40	31.50	23.20	17.00	13.00		4.00	
31		18.50		40.60	57.40		32.20		17.00	12.00		4.00	
TOTAL	160.28	585.84	880.00	913.60	1348.10	3110.60	1862.50	852.20	619.50	424.10	256.00	172.40	11185.10 CMSDAY
MEAN	5.34	18.90	29.33	29.47	43.49	103.69	60.08	28.41	19.98	13.68	9.14	5.56	30.64 CMS
MAX	20.00	89.00	85.00	72.50	79.00	338.40	152.80	34.30	32.20	17.00	11.20	6.80	338.40 CMS
MIN	3.60	3.66	8.00	16.50	21.50	53.40	31.50	23.20	17.00	11.60	6.80	4.00	3.60 CMS
RUNOFF	13.848	50.617	76.032	78.935	116.476	268.756	160.920	73.630	53.525	36.642	22.118	14.895	966.393 MCM

MOMENTARY PEAK 475.60 CMS, AT 280.52 M (MSL), AT 18.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 7.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 123.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

PING RIVER AT BAN THA SALA, CHIANG MAI (P.19A)

LOCATION — LAT. 18°-25'-29" N., LONG. 98°-42'-17" E., ON LEFT BANK ABOUT 300 METERS DOWNSTREAM FROM CONFLUENCE WITH LI RIVER, AMPHOE CHOM THONG, CHIANG MAI.

DRAINAGE AREA — 14,023 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +271.351 M. (M.S.L.)

BENCH MARK — B.M.=H.D./R.I.D.

LOCATION — ABOUT 11 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +276.620 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1958 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1958 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1958 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

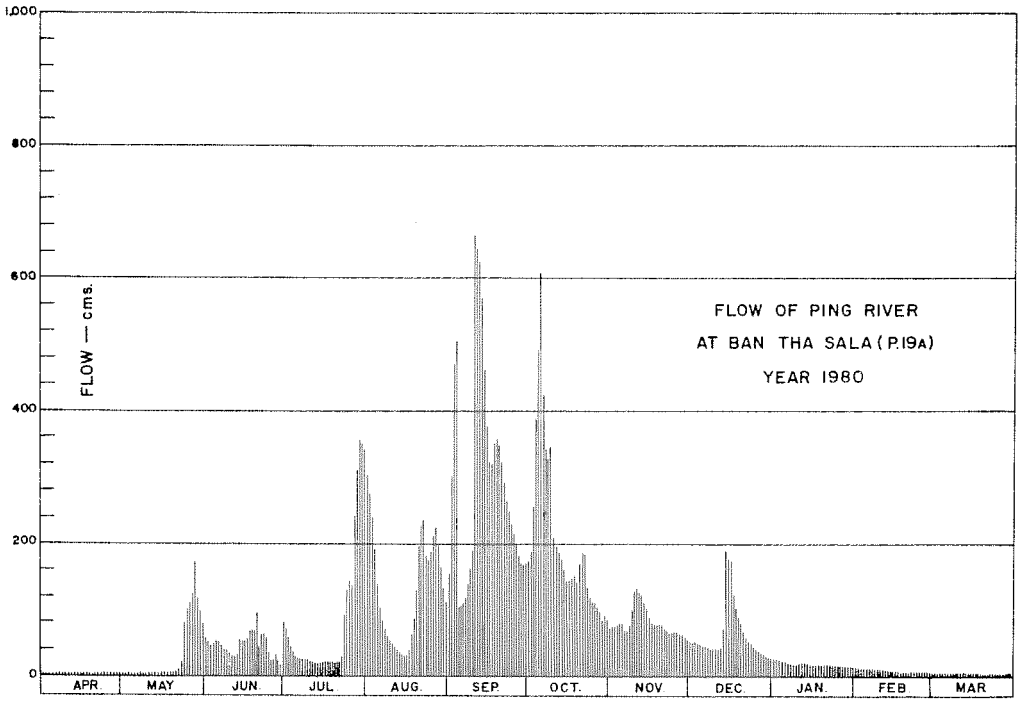
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 91 DISCHARGE MEASUREMENTS MADE IN 1980. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 28,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	271.87	271.76	272.87	273.00	274.36	273.56	273.65	272.96	272.75	272.45	272.20	272.03	
2	271.87	271.76	272.75	272.90	274.24	274.38	273.80	272.96	272.75	272.44	272.19	272.02	
3	271.86	271.75	272.65	272.76	274.04	275.10	274.30	272.99	272.76	272.43	272.18	272.02	
4	271.85	271.75	272.72	272.60	273.72	275.23	275.19	273.03	272.73	272.40	272.19	272.00	
5	271.85	271.75	272.75	272.49	273.43	273.22	275.59	273.01	272.71	272.37	272.18	272.00	
6	271.86	271.79	272.77	272.43	273.20	273.24	275.08	272.98	272.71	272.36	272.18	271.99	
7	271.86	271.80	272.70	272.43	273.03	273.29	274.60	272.89	272.67	272.33	272.16	271.99	
8	271.86	271.80	272.64	272.42	272.92	273.48	274.49	272.96	272.65	272.31	272.17	272.01	
9	271.86	271.80	272.58	272.41	272.83	273.74	274.57	273.22	272.64	272.30	272.17	271.99	
10	271.85	271.79	272.55	272.41	272.78	273.82	274.21	273.41	272.66	272.29	272.17	271.99	
11	271.85	271.79	272.52	272.38	272.69	275.78	273.87	273.42	272.66	272.28	272.17	271.98	
12	271.84	271.78	272.49	272.33	272.63	275.68	273.79	273.38	272.66	272.28	272.14	271.98	
13	271.84	271.78	272.52	272.31	272.59	275.53	273.75	273.34	272.93	272.27	272.13	271.97	
14	271.84	271.78	272.77	272.30	272.54	275.23	273.67	273.23	273.81	272.27	272.12	272.01	
15	271.84	271.77	272.74	272.30	272.49	274.84	273.56	273.15	273.71	272.27	272.10	272.01	
16	271.84	271.77	272.75	272.34	272.49	274.51	273.48	273.07	273.70	272.26	272.09	272.01	
17	271.84	271.76	272.76	272.36	272.60	274.44	273.54	272.99	273.44	272.26	272.08	272.01	
18	271.83	271.75	272.90	272.36	272.85	274.60	273.55	273.01	273.22	272.25	272.07	272.00	
19	271.83	271.74	272.92	272.35	273.16	274.64	273.48	273.01	273.06	272.25	272.08	271.99	
20	271.83	271.80	272.89	272.34	273.51	274.54	273.62	272.99	272.95	272.25	272.09	271.99	
21	271.82	271.93	273.10	272.35	273.97	274.38	273.77	272.95	272.85	272.26	272.09	271.99	
22	271.82	272.01	272.65	272.37	274.03	274.30	273.76	272.91	272.78	272.26	272.09	271.98	
23	271.80	272.27	272.87	272.52	273.80	274.14	273.54	272.89	272.73	272.26	272.08	271.99	
24	271.77	273.00	272.83	273.34	273.69	274.11	273.38	272.87	272.67	272.25	272.08	271.99	
25	271.76	273.19	272.58	273.47	273.74	273.99	273.27	272.90	272.63	272.24	272.07	271.99	
26	271.75	273.29	272.35	273.49	273.91	273.90	273.26	272.91	272.60	272.23	272.06	271.99	
27	271.76	273.37	272.36	274.07	273.97	273.76	273.22	272.88	272.57	272.22	272.05	271.98	
28	271.76	273.67	272.52	274.34	273.84	273.71	273.12	272.85	272.55	272.22	272.03	271.99	
29	271.77	273.33	272.37	274.61	273.59	273.66	273.04	272.82	272.52	272.21		271.97	
30	271.76	273.17	272.19	274.60	273.35	273.67	273.11	272.77	272.50	272.21		271.97	
31		272.99		274.58	273.25		272.98		272.47	272.20		271.97	
MEAN	271.82	272.18	272.67	272.87	273.33	274.28	273.81	273.02	272.84	272.29	272.12	271.99	
MAX	271.87	273.67	273.10	274.61	274.36	275.78	275.59	273.42	273.81	272.45	272.20	272.03	275.78
MIN	271.75	271.74	272.19	272.30	272.49	273.22	272.98	272.77	272.47	272.20	272.03	271.97	271.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 275.86 M (MSL), AT 9.00 HOURS, ON SEP 10, 1980
ZERO GAGE AT BOTTOM ELEVATION 271.35 M (MSL), RIVER BED 271.29 M (MSL)
LEFT BANK ELEVATION 277.19 M (MSL)
RIGHT BANK ELEVATION 279.73 M (MSL), DRAINAGE AREA 14023 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.40	0.60	63.00	78.00	299.20	151.60	166.00	73.20	51.00	27.25	13.50	5.90	
2	2.40	0.60	51.00	66.00	274.00	303.59	190.00	73.20	51.00	26.70	12.95	5.60	
3	2.20	0.50	42.00	52.00	234.00	471.99	286.00	76.80	52.00	26.15	12.40	5.60	
4	2.00	0.50	48.00	38.00	177.20	505.80	495.39	81.60	49.00	24.50	12.95	5.00	
5	2.00	0.50	51.00	29.45	132.20	104.60	605.20	79.20	47.00	22.85	12.40	5.00	
6	2.20	0.90	53.00	26.15	102.00	107.20	466.79	75.60	47.00	22.30	12.40	4.80	
7	2.20	1.00	46.00	26.15	81.60	113.70	352.00	65.00	43.60	20.65	11.30	4.80	
8	2.20	1.00	41.20	25.60	68.40	139.20	327.80	73.20	42.00	19.55	11.85	5.30	
9	2.20	1.00	36.40	25.05	59.00	180.40	345.40	104.60	41.20	19.00	11.85	4.80	
10	2.00	0.90	34.00	25.05	54.00	193.59	267.99	129.40	42.80	18.45	11.85	4.80	
11	2.00	0.90	31.60	23.40	45.20	658.40	202.60	130.80	42.80	17.90	11.85	4.60	
12	1.80	0.80	29.45	20.65	40.40	630.41	188.40	125.40	42.80	17.90	10.20	4.60	
13	1.80	0.80	31.60	19.55	37.20	588.40	182.00	120.20	69.60	17.35	9.65	4.40	
14	1.80	0.80	53.00	19.00	33.20	505.80	169.20	105.90	191.80	17.35	9.10	5.30	
15	1.80	0.70	50.00	19.00	29.45	407.60	151.60	96.00	175.60	17.35	8.00	5.30	
16	1.80	0.70	51.00	21.20	29.45	332.20	139.20	86.40	173.99	16.80	7.70	5.30	
17	1.80	0.60	52.00	22.30	38.00	316.79	148.40	76.80	133.59	16.80	7.40	5.30	
18	1.60	0.50	66.00	22.30	61.00	352.00	150.00	79.20	104.60	16.25	7.10	5.00	
19	1.60	0.40	68.40	21.75	97.20	360.80	139.20	79.20	85.20	16.25	7.40	4.80	
20	1.60	1.00	65.00	21.20	143.59	338.80	161.20	76.80	72.00	16.25	7.70	4.80	
21	1.40	3.60	90.00	21.75	220.60	303.59	185.20	72.00	61.00	16.80	7.70	4.80	
22	1.40	5.30	42.00	22.85	231.99	286.00	183.59	67.20	54.00	16.80	7.70	4.60	
23	1.00	17.35	63.00	31.60	190.00	253.99	148.40	65.00	49.00	16.80	7.40	4.80	
24	0.70	78.00	59.00	120.20	172.39	248.00	125.40	63.00	43.60	16.25	7.40	4.80	
25	0.60	100.80	36.40	137.80	180.40	224.20	111.10	66.00	40.40	15.70	7.10	4.80	
26	0.50	113.70	21.75	140.60	209.80	207.99	109.80	67.20	38.00	15.15	6.80	4.80	
27	0.60	124.10	22.30	239.99	220.60	183.59	104.60	64.00	35.60	14.60	6.50	4.60	
28	0.60	169.20	31.60	294.80	197.20	175.60	92.40	61.00	34.00	14.60	5.90	4.80	
29	0.70	118.90	22.85	354.21	156.40	167.60	82.80	58.00	31.60	14.05		4.40	
30	0.60	98.40	12.95	352.00	121.50	169.20	91.20	53.00	30.00	14.05		4.40	
31		76.80		347.60	108.51		75.60		28.35	13.50		4.40	
TOTAL	47.50	920.85	1365.50	2665.20	4045.68	8982.62	6444.45	2444.90	2004.13	565.90	266.05	152.20	29904.96 CMSDAY
MEAN	1.58	29.70	45.52	85.97	130.51	299.42	207.89	81.50	64.65	18.25	9.50	4.91	81.93 CMS
MAX	2.40	169.20	90.00	354.21	299.20	658.40	605.20	130.80	191.80	27.25	13.50	5.90	658.40 CMS
MIN	0.50	0.40	12.95	19.00	29.45	104.60	75.60	53.00	28.35	13.50	5.90	4.40	0.40 CMS
RUNOFF	4.104	79.561	117.979	230.273	349.546	776.098	556.800	211.239	173.157	48.894	22.987	13.150	2583.789 MCM

MOMENTARY PEAK 680.61 CMS, AT 275.86 M (MSL), AT 9.00 HOURS, ON SEP 10, 1980

RUNOFF YIELD 5.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 48.55 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

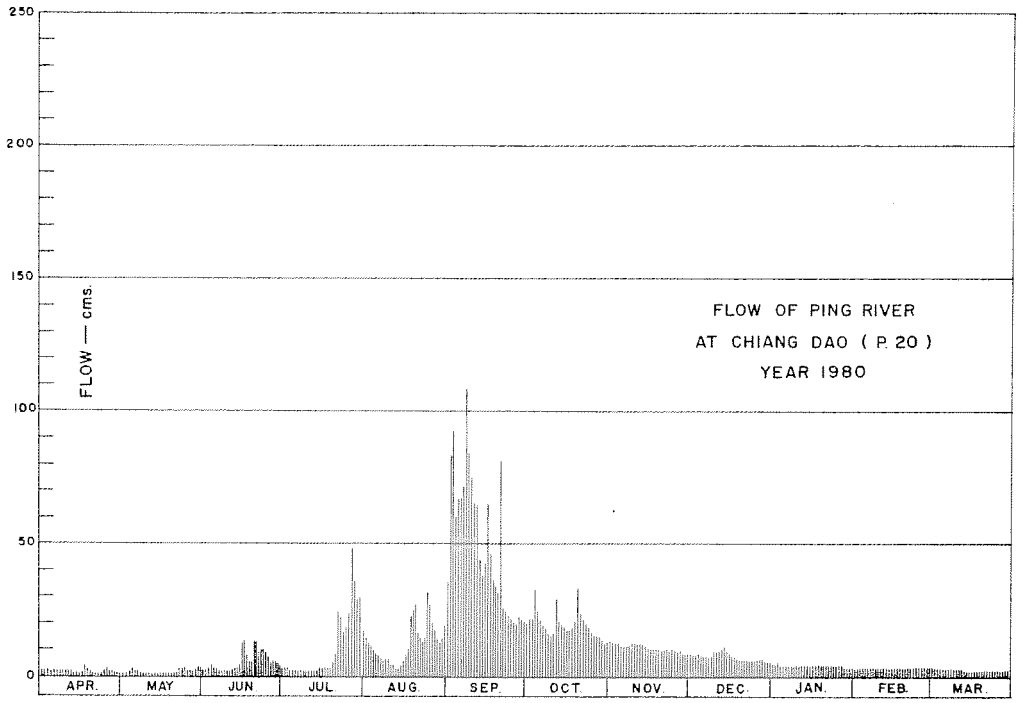
PING RIVER AT CHIANG DAO, CHIANG MAI (P.20)

LOCATION	LAT. 19°-22'-06" N., LONG. 98°-58'-20" E., ON RIGHT BANK NEAR WAT INTHRA RAM, AMPHOE CHIANG DAO, CHIANG MAI.
DRAINAGE AREA	1,355 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=H.D.
LOCATION	ABOUT 2 METERS FROM AUTOMATIC GAGE BUILDING.
ELEVATION	+4.133 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.61	0.57	0.63	0.69	0.97	1.25	1.03	0.92	0.81	0.73	0.68	0.66	
2	0.61	0.56	0.64	0.67	0.92	1.77	1.06	0.92	0.81	0.72	0.68	0.66	
3	0.61	0.57	0.66	0.65	0.88	1.87	1.06	0.91	0.81	0.73	0.68	0.66	
4	0.66	0.62	0.72	0.64	0.85	1.56	1.23	0.90	0.80	0.72	0.69	0.67	
5	0.64	0.65	0.67	0.62	0.82	1.63	1.10	0.89	0.80	0.72	0.68	0.67	
6	0.62	0.61	0.65	0.62	0.80	1.63	1.05	0.88	0.79	0.72	0.69	0.67	
7	0.62	0.60	0.64	0.62	0.77	1.67	1.02	0.88	0.80	0.71	0.68	0.67	
8	0.61	0.57	0.62	0.63	0.76	2.00	1.00	0.88	0.78	0.72	0.67	0.67	
9	0.61	0.55	0.62	0.62	0.75	1.79	0.98	0.90	0.78	0.72	0.67	0.66	
10	0.61	0.56	0.64	0.63	0.75	1.68	0.96	0.92	0.83	0.72	0.66	0.66	
11	0.60	0.56	0.64	0.63	0.72	1.61	0.97	0.91	0.84	0.72	0.66	0.65	
12	0.60	0.56	0.65	0.63	0.70	1.60	1.17	0.90	0.84	0.72	0.66	0.65	
13	0.58	0.57	0.67	0.64	0.69	1.39	1.04	0.90	0.86	0.72	0.66	0.64	
14	0.58	0.57	0.69	0.64	0.69	1.29	1.03	0.88	0.89	0.72	0.66	0.64	
15	0.58	0.57	0.71	0.65	0.70	1.36	1.00	0.87	0.84	0.72	0.66	0.64	
16	0.57	0.58	0.91	0.66	0.78	1.60	0.99	0.87	0.81	0.70	0.66	0.64	
17	0.65	0.58	0.92	0.68	0.84	1.40	0.99	0.86	0.79	0.70	0.66	0.64	
18	0.63	0.58	0.77	0.69	1.06	1.33	1.01	0.86	0.78	0.71	0.66	0.64	
19	0.60	0.57	0.73	0.69	1.10	1.26	1.04	0.87	0.77	0.70	0.67	0.64	
20	0.58	0.57	0.93	0.75	1.15	1.22	1.24	0.85	0.76	0.71	0.67	0.63	
21	0.57	0.59	0.92	0.82	0.98	1.17	1.09	0.84	0.76	0.71	0.67	0.62	
22	0.57	0.59	0.82	1.10	0.95	1.14	1.05	0.85	0.75	0.70	0.67	0.63	
23	0.57	0.67	0.87	1.06	0.92	1.11	1.03	0.85	0.75	0.70	0.66	0.63	
24	0.57	0.69	0.86	0.95	0.99	1.09	1.01	0.84	0.75	0.71	0.66	0.63	
25	0.57	0.65	0.82	1.00	1.22	1.07	0.98	0.85	0.76	0.71	0.66	0.65	
26	0.57	0.63	0.75	1.07	1.06	1.04	0.96	0.84	0.76	0.71	0.66	0.65	
27	0.57	0.64	0.73	1.42	0.99	1.03	0.96	0.84	0.75	0.70	0.66	0.64	
28	0.57	0.63	0.77	1.26	0.94	1.07	0.95	0.83	0.75	0.67	0.66	0.64	
29	0.57	0.65	0.74	1.17	0.90	1.05	0.92	0.82	0.76	0.67		0.64	
30	0.57	0.65	0.72	1.19	0.92	1.04	0.91	0.82	0.75	0.68		0.64	
31		0.63		1.06	1.03		0.91		0.74	0.68		0.63	
MEAN	0.60	0.60	0.74	0.81	0.89	1.39	1.02	0.87	0.79	0.71	0.67	0.65	
MAX	0.66	0.69	0.93	1.42	1.22	2.00	1.24	0.92	0.89	0.73	0.69	0.67	2.00
MIN	0.57	0.55	0.62	0.62	0.69	1.03	0.91	0.82	0.74	0.67	0.66	0.62	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.15 M (A.D), AT 20.00 HOURS, ON SEP 8, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.89 M (A.D)
LEFT BANK ELEVATION 5.71 M (A.D)
RIGHT BANK ELEVATION 6.92 M (A.D), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.20	1.40	2.60	3.80	16.20	34.00	19.80	13.20	8.40	5.20	3.60	3.20	
2	2.20	1.20	2.80	3.40	13.20	81.00	21.60	13.20	8.40	4.80	3.60	3.20	
3	2.20	1.40	3.20	3.00	11.20	92.40	21.60	12.60	8.40	5.20	3.60	3.20	
4	3.20	2.40	4.80	2.80	10.00	60.00	32.40	12.00	8.00	4.80	3.80	3.40	
5	2.80	3.00	3.40	2.40	8.80	67.00	24.00	11.60	8.00	4.80	3.60	3.40	
6	2.40	2.20	3.00	2.40	8.00	67.00	21.00	11.20	7.60	4.80	3.80	3.40	
7	2.40	2.00	2.80	2.40	6.80	71.00	19.20	11.20	8.00	4.40	3.60	3.40	
8	2.20	1.40	2.40	2.60	6.40	108.00	18.00	11.20	7.20	4.80	3.40	3.40	
9	2.20	1.00	2.40	2.40	6.00	83.00	16.80	12.00	7.20	4.80	3.40	3.20	
10	2.20	1.20	2.80	2.60	6.00	72.00	15.60	13.20	9.20	4.80	3.20	3.20	
11	2.00	1.20	2.80	2.60	4.80	65.00	16.20	12.60	9.60	4.80	3.20	3.00	
12	2.00	1.20	3.00	2.60	4.00	64.00	28.20	12.00	9.60	4.80	3.20	3.00	
13	1.60	1.40	3.40	2.80	3.80	45.20	20.40	12.00	10.40	4.80	3.20	2.80	
14	1.60	1.40	3.80	2.80	3.80	37.20	19.80	11.20	11.60	4.80	3.20	2.80	
15	1.60	1.40	4.40	3.00	4.00	42.80	18.00	10.80	9.60	4.80	3.20	2.80	
16	1.40	1.60	12.60	3.20	7.20	64.00	17.40	10.80	8.40	4.00	3.20	2.80	
17	3.00	1.60	13.20	3.60	9.60	46.00	17.40	10.40	7.60	4.00	3.20	2.80	
18	2.60	1.60	6.80	3.80	21.60	40.40	18.60	10.40	7.20	4.40	3.20	2.80	
19	2.00	1.40	5.20	3.80	24.00	34.80	20.40	10.80	6.80	4.00	3.40	2.80	
20	1.60	1.40	13.80	6.00	27.00	31.60	33.20	10.00	6.40	4.40	3.40	2.60	
21	1.40	1.80	13.20	8.80	16.80	28.20	23.40	9.60	6.40	4.40	3.40	2.40	
22	1.40	1.80	8.80	24.00	15.00	26.40	21.00	10.00	6.00	4.00	3.40	2.60	
23	1.40	3.40	10.80	21.60	13.20	24.60	19.80	10.00	6.00	4.00	3.20	2.60	
24	1.40	3.80	10.40	15.00	17.40	23.40	18.60	9.60	6.00	4.40	3.20	2.60	
25	1.40	3.00	8.80	18.00	31.60	22.20	16.80	10.00	6.40	4.40	3.20	3.00	
26	1.40	2.60	6.00	22.20	21.60	20.40	15.60	9.60	6.40	4.40	3.20	3.00	
27	1.40	2.80	5.20	47.60	17.40	19.80	15.60	9.60	6.00	4.00	3.20	2.80	
28	1.40	2.60	6.80	34.80	14.40	22.20	15.00	9.20	6.00	3.40	3.20	2.80	
29	1.40	3.00	5.60	28.20	12.00	21.00	13.20	8.80	6.40	3.40		2.80	
30	1.40	3.00	4.80	29.40	13.20	20.40	12.60	8.80	6.00	3.60		2.80	
31		2.60		21.60	19.80		12.60		5.60	3.60		2.60	
TOTAL	57.40	61.80	179.60	333.20	394.80	1435.00	603.80	327.60	234.80	136.80	94.00	91.20	3950.00 CMSDAY
MEAN	1.91	1.99	5.99	10.75	12.74	47.83	19.48	10.92	7.57	4.41	3.36	2.94	10.82 CMS
MAX	3.20	3.80	13.80	47.60	31.60	108.00	33.20	13.20	11.60	5.20	3.80	3.40	108.00 CMS
MIN	1.40	1.00	2.40	2.40	3.80	19.80	12.60	8.80	5.60	3.40	3.20	2.40	1.00 CMS
RUNOFF	4.959	5.340	15.517	28.788	34.111	123.984	52.168	28.305	20.287	11.820	8.122	7.880	341.280 MCM

MOMENTARY PEAK 126.00 CMS, AT 2.15 M (A.D), AT 20.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 7.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 92.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE RIM NEAR MAE RIM, CHIANG MAI (P.21)

LOCATION — LAT. 18°-55'-29" N., LONG. 98°-56'-34" E., ON RIGHT BANK ABOUT 100 METERS DOWNSTREAM FROM THE BRIDGE OF CHIANG MAI-FANG HIGHWAY, AMPHOE MAE RIM, CHIANG MAI.

DRAINAGE AREA — 515 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +319.70 M.(M.S.L.)

BENCH MARK — B.M.-H.D./R.I.D. NO.4

LOCATION — IN THE VICINITY OF GAGE OBSERVER'S HOUSE.

ELEVATION — +322.038 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1954 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1954-1960, 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1954-1960, 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

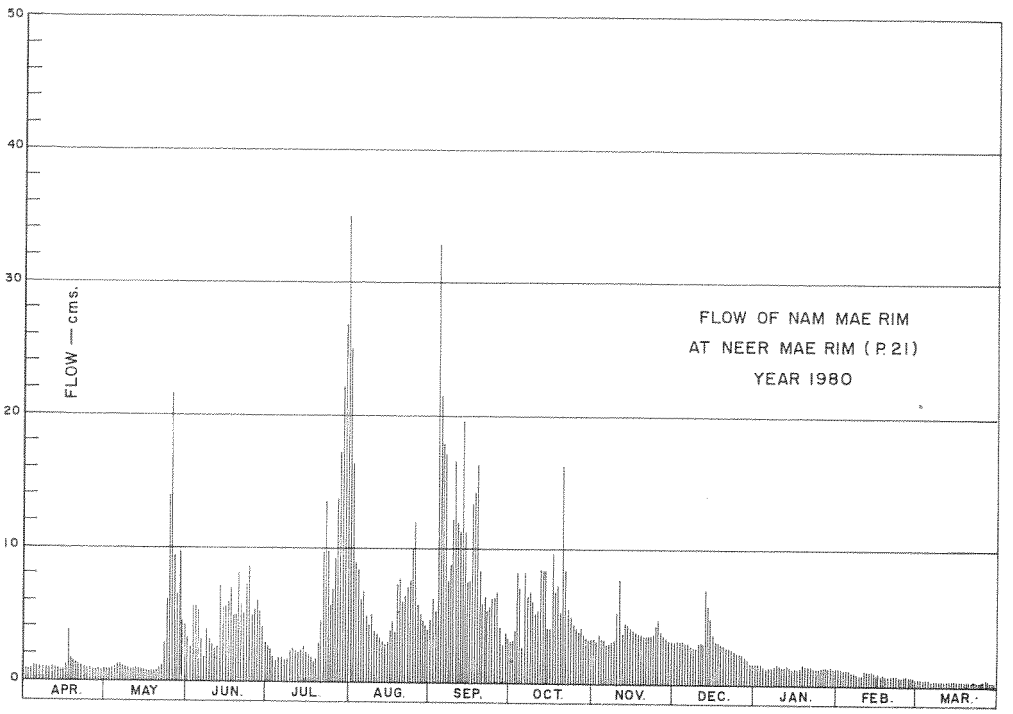
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	320.25	320.28	320.59	320.58	321.96	320.93	320.62	320.63	320.63	320.41	320.33	320.20	
2	320.25	320.28	320.51	320.55	321.58	320.85	320.68	320.62	320.63	320.40	320.32	320.20	
3	320.26	320.27	320.86	320.50	321.10	322.27	321.06	320.66	320.63	320.39	320.32	320.22	
4	320.33	320.30	320.86	320.41	321.06	321.90	320.95	320.62	320.62	320.37	320.32	320.18	
5	320.42	320.32	320.82	320.41	320.90	321.68	320.54	320.62	320.61	320.35	320.31	320.18	
6	320.31	320.36	320.68	320.44	320.96	321.60	321.08	320.58	320.60	320.37	320.27	320.16	
7	320.28	320.34	320.43	320.41	320.84	321.01	320.93	320.60	320.59	320.36	320.27	320.15	
8	320.28	320.31	320.71	320.40	320.72	321.12	320.97	320.62	320.57	320.37	320.27	320.17	
9	320.28	320.29	320.63	320.47	320.81	321.58	320.89	320.79	320.57	320.40	320.27	320.15	
10	320.28	320.28	320.58	320.56	320.70	321.37	320.80	321.03	320.60	320.40	320.32	320.16	
11	320.30	320.27	320.56	320.54	320.67	321.29	320.73	320.75	320.62	320.35	320.32	320.18	
12	320.29	320.29	320.51	320.52	320.65	321.74	321.08	320.67	320.61	320.35	320.38	320.17	
13	320.28	320.30	320.99	320.50	320.64	321.43	320.85	320.75	320.97	320.39	320.34	320.19	
14	320.26	320.29	320.88	320.54	320.60	321.02	320.73	320.73	320.83	320.34	320.28	320.20	
15	320.26	320.27	320.85	320.55	320.57	321.03	320.70	320.71	320.71	320.33	320.25	320.16	
16	320.30	320.26	320.89	320.51	320.68	321.41	321.17	320.69	320.65	320.34	320.26	320.14	
17	320.69	320.27	320.98	320.46	320.75	321.46	320.95	320.68	320.62	320.34	320.25	320.12	
18	320.42	320.27	320.81	320.43	320.68	321.57	321.00	320.68	320.61	320.40	320.26	320.12	
19	320.37	320.26	320.78	320.41	320.99	321.13	320.83	320.68	320.60	320.36	320.25	320.11	
20	320.37	320.27	321.06	320.54	321.04	320.89	321.56	320.66	320.59	320.38	320.26	320.11	
21	320.34	320.32	320.94	320.75	320.89	320.94	321.11	320.67	320.57	320.36	320.27	320.10	
22	320.34	320.33	320.80	321.15	320.96	320.85	320.88	320.66	320.57	320.35	320.26	320.11	
23	320.30	320.54	321.01	321.41	321.00	320.93	320.83	320.66	320.55	320.33	320.23	320.10	
24	320.28	320.94	321.09	321.09	321.03	320.91	320.76	320.76	320.51	320.33	320.21	320.11	
25	320.30	321.44	320.91	320.88	321.32	320.96	320.73	320.79	320.53	320.35	320.23	320.13	
26	320.29	321.82	320.80	321.09	321.06	320.77	320.69	320.71	320.52	320.36	320.25	320.14	
27	320.27	321.14	320.90	321.32	320.87	320.68	320.71	320.68	320.51	320.36	320.23	320.17	
28	320.28	320.94	320.84	321.55	320.77	320.57	320.66	320.66	320.49	320.33	320.21	320.18	
29	320.29	321.16	320.69	321.74	320.74	320.67	320.64	320.65	320.44	320.36		320.14	
30	320.27	320.75	320.63	322.04	320.69	320.61	320.63	320.64	320.42	320.34		320.12	
31		320.68		322.36	320.71		320.65		320.39	320.33		320.13	
MEAN	320.31	320.51	320.79	320.81	320.90	321.17	320.85	320.69	320.59	320.36	320.28	320.15	
MAX	320.69	321.82	321.09	322.36	321.96	322.27	321.56	321.03	320.97	320.41	320.38	320.22	322.36
MIN	320.25	320.26	320.43	320.40	320.57	320.57	320.54	320.58	320.39	320.33	320.21	320.10	320.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 322.38 M (MSL), AT 9.00 HOURS, ON SEP 3, 1980
ZERO GAGE AT BOTTOM ELEVATION 319.70 M (MSL), RIVER BED 319.27 M (MSL)
LEFT BANK ELEVATION 323.23 M (MSL)
RIGHT BANK ELEVATION 324.84 M (MSL), DRAINAGE AREA 515 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.80	2.72	2.64	24.80	6.29	3.00	3.10	3.10	1.46	1.05	0.40	
2	0.65	0.80	2.08	2.40	16.44	5.35	3.60	3.00	3.10	1.40	1.00	0.40	
3	0.70	0.75	5.46	2.00	8.60	32.62	8.04	3.40	3.10	1.35	1.00	0.50	
4	1.05	0.90	5.46	1.46	8.04	23.30	6.55	3.00	3.00	1.25	1.00	0.36	
5	1.52	1.00	5.02	1.46	5.90	18.40	2.32	3.00	2.90	1.15	0.95	0.36	
6	0.95	1.20	3.60	1.64	6.68	16.80	8.32	2.64	2.80	1.25	0.75	0.32	
7	0.80	1.10	1.58	1.46	5.24	7.34	6.29	2.80	2.72	1.20	0.75	0.30	
8	0.80	0.95	3.90	1.40	4.00	8.88	6.81	3.00	2.56	1.25	0.75	0.34	
9	0.80	0.85	3.10	1.82	4.91	16.44	5.79	4.70	2.56	1.40	0.75	0.30	
10	0.80	0.80	2.64	2.48	3.80	12.69	4.80	7.62	2.80	1.40	1.00	0.32	
11	0.90	0.75	2.48	2.32	3.50	11.35	4.10	4.30	3.00	1.15	1.00	0.36	
12	0.85	0.85	2.08	2.16	3.30	19.68	8.32	3.50	2.90	1.15	1.30	0.34	
13	0.80	0.90	7.07	2.00	3.20	13.74	5.35	4.30	6.81	1.35	1.10	0.38	
14	0.70	0.85	5.68	2.32	2.80	7.48	4.10	4.10	5.13	1.10	0.80	0.40	
15	0.70	0.75	5.35	2.40	2.56	7.62	3.80	3.90	3.90	1.05	0.65	0.32	
16	0.90	0.70	5.79	2.08	3.60	13.38	9.58	3.70	3.30	1.10	0.70	0.28	
17	3.70	0.75	6.94	1.76	4.30	14.28	6.55	3.60	3.00	1.10	0.65	0.24	
18	1.52	0.75	4.91	1.58	3.60	16.26	7.20	3.60	2.90	1.40	0.70	0.24	
19	1.25	0.70	4.60	1.46	7.07	9.02	5.13	3.60	2.80	1.20	0.65	0.22	
20	1.25	0.75	8.04	2.32	7.76	5.79	16.08	3.40	2.72	1.30	0.70	0.22	
21	1.10	1.00	6.42	4.30	5.79	6.42	8.74	3.50	2.56	1.20	0.75	0.20	
22	1.10	1.05	4.80	9.30	6.68	5.35	5.68	3.40	2.56	1.15	0.70	0.22	
23	0.90	2.32	7.34	13.38	7.20	6.29	5.13	3.40	2.40	1.05	0.55	0.20	
24	0.80	6.42	8.46	8.46	7.62	6.03	4.40	4.40	2.08	1.05	0.45	0.22	
25	0.90	13.92	6.03	5.68	11.84	6.68	4.10	4.70	2.24	1.15	0.55	0.26	
26	0.85	21.46	4.80	8.46	8.04	4.50	3.70	3.90	2.16	1.20	0.65	0.28	
27	0.75	9.16	5.90	11.84	5.57	3.60	3.90	3.60	2.08	1.20	0.55	0.34	
28	0.80	6.42	5.24	15.90	4.50	2.56	3.40	3.40	1.94	1.05	0.45	0.36	
29	0.85	9.44	3.70	19.68	4.20	3.50	3.20	3.30	1.64	1.20		0.28	
30	0.75	4.30	3.10	26.80	3.70	2.90	3.10	3.20	1.52	1.10		0.24	
31		3.60		34.96	3.90		3.30		1.35	1.05		0.26	
TOTAL	30.09	95.99	144.29	197.92	199.14	314.54	174.38	111.06	87.63	37.41	21.90	9.46	1423.81 CMSDAY
MEAN	1.00	3.10	4.81	6.38	6.42	10.48	5.63	3.70	2.83	1.21	0.78	0.31	3.90 CMS
MAX	3.70	21.46	8.46	34.96	24.80	32.62	16.08	7.62	6.81	1.46	1.30	0.50	34.96 CMS
MIN	0.65	0.70	1.58	1.40	2.56	2.56	2.32	2.64	1.35	1.05	0.45	0.20	0.20 CMS
RUNOFF	2.600	8.294	12.467	17.100	17.206	27.176	15.066	9.596	7.571	3.232	1.892	0.817	123.017 MCM

MOMENTARY PEAK 35.48 CMS, AT 322.38 M (MSL), AT 9.00 HOURS, ON SEP 3, 1980

RUNOFF YIELD 7.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 68.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

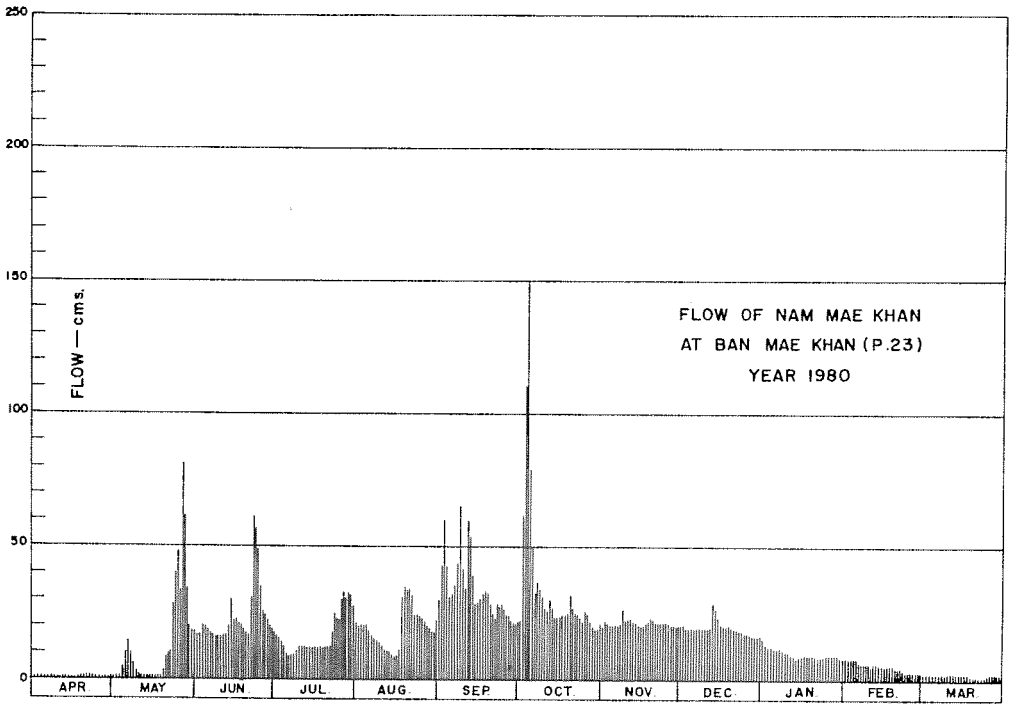
NAM MAE KHAN AT BAN MAE KHAN, CHIANG MAI (P.23)

LOCATION	LAT. 18°-31'-37" N., LONG. 98°-51'-42" E., ON LEFT BANK DOWNSTREAM SIDE OF MAE KHAN BRIDGE, AMPHOE SAN PA TONG, CHIANG MAI.
DRAINAGE AREA	1,777 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+285.622 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+289.483 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967, 1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1967, 1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	286.56	286.54	287.34	287.34	287.46	287.69	287.50	287.43	287.45	287.25	287.02	286.73	
2	286.56	286.55	287.32	287.30	287.45	287.96	287.83	287.47	287.44	287.23	287.02	286.72	
3	286.56	286.54	287.40	287.28	287.45	288.16	288.54	287.47	287.43	287.19	287.02	286.72	
4	286.56	286.55	297.46	287.24	287.44	287.83	289.17	287.46	287.43	287.17	287.01	286.72	
5	286.56	286.93	287.43	287.10	287.42	287.68	288.49	287.44	287.42	287.14	286.99	286.72	
6	286.56	287.28	287.38	287.04	287.35	287.73	287.97	287.44	287.42	287.14	286.93	286.72	
7	286.56	287.15	287.35	287.07	287.32	287.81	287.72	287.44	287.42	287.14	286.93	286.71	
8	286.55	286.99	287.33	287.09	287.26	287.99	287.81	287.45	287.41	287.14	286.92	286.71	
9	286.55	286.77	287.32	287.16	287.26	288.24	287.75	287.60	287.41	287.13	286.90	286.71	
10	286.55	286.72	287.31	287.18	287.23	287.87	287.64	287.48	287.41	287.12	286.88	286.71	
11	286.54	286.67	287.31	287.18	287.15	287.75	287.58	287.54	287.41	287.08	286.87	286.72	
12	286.54	286.64	287.32	287.18	287.12	288.16	287.70	287.51	287.41	287.05	286.91	286.73	
13	286.54	286.63	287.42	287.19	287.10	288.06	287.65	287.46	287.67	287.03	286.90	286.72	
14	286.54	286.62	287.68	287.19	287.06	287.65	287.58	287.47	287.58	287.04	286.89	286.72	
15	286.54	286.61	287.52	287.18	287.03	287.65	287.54	287.46	287.50	287.08	286.89	286.72	
16	286.55	286.57	287.50	287.19	287.08	287.68	287.54	287.46	287.46	287.07	286.88	286.72	
17	286.65	286.55	287.49	287.19	287.31	287.70	287.57	287.46	287.44	287.07	286.86	286.71	
18	286.69	286.54	287.46	287.19	287.70	287.75	287.57	287.47	287.44	287.06	286.85	286.70	
19	286.67	286.58	287.42	287.18	287.79	287.72	287.56	287.50	287.44	287.05	286.85	286.69	
20	286.65	286.76	287.36	287.18	287.75	287.65	287.73	287.54	287.43	287.05	286.82	286.68	
21	286.63	287.07	287.32	287.17	287.76	287.55	287.62	287.48	287.43	287.03	286.81	286.68	
22	286.61	287.16	287.99	287.18	287.70	287.50	287.55	287.47	287.41	287.02	286.80	286.68	
23	286.61	287.65	288.18	287.58	287.53	287.64	287.57	287.47	287.39	287.04	286.79	286.69	
24	286.59	287.87	288.07	287.57	287.57	287.62	287.51	287.47	287.37	287.05	286.78	286.69	
25	286.56	287.99	287.90	287.51	287.54	287.65	287.48	287.47	287.36	287.07	286.78	286.69	
26	286.55	287.75	287.63	287.68	287.50	287.56	287.58	287.47	287.34	287.06	286.77	286.70	
27	286.55	288.45	287.59	287.72	287.46	287.56	287.53	287.46	287.33	287.06	286.76	286.70	
28	286.55	287.80	287.55	287.68	287.40	287.50	287.45	287.46	287.32	287.05	286.75	286.71	
29	286.55	287.45	287.47	287.75	287.37	287.47	287.40	287.46	287.32	287.05		286.71	
30	286.54	287.39	287.37	287.66	287.38	287.48	287.39	287.46	287.31	287.04		286.72	
31		287.38		287.50	287.55		287.47		287.30	287.03		286.74	
MEAN	286.57	287.04	287.51	287.31	287.40	287.74	287.71	287.47	287.42	287.09	286.88	286.71	
MAX	286.69	288.45	288.18	287.75	287.79	288.24	289.17	287.60	287.67	287.25	287.02	286.74	289.17
MIN	286.54	286.54	287.31	287.04	287.03	287.47	287.39	287.43	287.30	287.02	286.75	286.68	286.54

ANNUAL MAX MOMENTARY GAGE HEIGHT 289.41 M (MSL), AT 24.00 HOURS, ON OCT 4, 1980
ZERO GAGE AT BOTTOM ELEVATION 285.62 M (MSL), RIVER BED 286.19 M (MSL)
LEFT BANK ELEVATION 291.63 M (MSL)
RIGHT BANK ELEVATION 291.73 M (MSL), DRAINAGE AREA 1777 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.40	17.20	17.20	20.80	30.50	22.00	19.90	20.50	14.50	8.40	2.60	
2	0.60	0.50	16.60	16.00	20.50	46.20	37.80	21.10	20.20	13.90	8.40	2.40	
3	0.60	0.40	19.00	15.40	20.50	60.20	88.60	21.10	19.90	12.70	8.40	2.40	
4	0.60	0.50	20.80	14.20	20.20	37.60	150.70	20.80	19.90	12.10	8.20	2.40	
5	0.60	6.60	19.90	10.00	19.60	30.00	84.20	20.20	19.60	11.20	7.80	2.40	
6	0.60	15.40	18.40	8.80	17.50	32.50	46.90	20.20	19.60	11.20	6.60	2.40	
7	0.60	11.50	17.50	9.40	16.60	36.60	32.00	20.20	19.60	11.20	6.60	2.20	
8	0.50	7.80	16.90	9.80	14.80	48.30	36.60	20.50	19.30	11.20	6.40	2.20	
9	0.50	3.40	16.60	11.80	14.80	65.80	33.50	26.00	19.30	10.90	6.00	2.20	
10	0.50	2.40	16.30	12.40	13.90	40.20	28.00	21.40	19.30	10.60	5.60	2.20	
11	0.40	1.70	16.30	12.40	11.50	33.50	25.20	23.60	19.30	9.60	5.40	2.40	
12	0.40	1.40	16.60	12.40	10.60	60.20	31.00	22.40	19.30	9.00	6.20	2.60	
13	0.40	1.30	19.60	12.70	10.00	53.20	28.50	20.80	29.50	8.60	6.00	2.40	
14	0.40	1.20	30.00	12.70	9.20	28.50	25.20	21.10	25.20	8.80	5.80	2.40	
15	0.40	1.10	22.80	12.40	8.60	28.50	23.60	20.80	22.00	9.60	5.80	2.40	
16	0.50	0.70	22.00	12.70	9.60	30.00	23.60	20.80	20.80	9.40	5.60	2.40	
17	1.50	0.50	21.70	12.70	16.30	31.00	24.80	20.80	20.20	9.40	5.20	2.20	
18	1.90	0.40	20.80	12.70	31.00	33.50	24.80	21.10	20.20	9.20	5.00	2.00	
19	1.70	0.80	19.60	12.40	35.50	32.00	24.40	22.00	20.20	9.00	5.00	1.90	
20	1.50	3.20	17.90	12.40	33.50	28.50	32.50	23.60	19.90	9.00	4.40	1.80	
21	1.30	9.40	16.60	12.10	34.00	24.00	27.00	21.40	19.90	8.60	4.20	1.80	
22	1.10	11.80	48.30	12.40	31.00	22.00	24.00	21.10	19.30	8.40	4.00	1.80	
23	1.10	28.50	61.60	25.20	23.20	28.00	24.80	21.10	18.70	8.80	3.80	1.90	
24	0.90	40.20	53.90	24.80	24.80	27.00	22.40	21.10	18.10	9.00	3.60	1.90	
25	0.60	48.30	42.00	22.40	23.60	28.50	21.40	21.10	17.80	9.40	3.60	1.90	
26	0.50	33.50	27.50	30.00	22.00	24.40	25.20	21.10	17.20	9.20	3.40	2.00	
27	0.50	81.00	25.60	32.00	20.80	24.40	23.20	20.80	16.90	9.20	3.20	2.00	
28	0.50	36.00	24.00	30.00	19.00	22.00	20.50	20.80	16.60	9.00	3.00	2.20	
29	0.50	20.50	21.10	33.50	18.10	21.10	19.00	20.80	16.60	9.00		2.20	
30	0.40	18.70	18.10	29.00	18.40	21.40	18.70	20.80	16.30	8.80		2.40	
31		18.40		22.00	24.00		21.10		16.00	8.60		2.80	
TOTAL	22.20	407.50	725.10	523.90	613.90	1029.80	1071.20	638.50	607.20	309.10	155.60	68.80	6172.79 CMSDAY
MEAN	0.74	13.15	24.17	16.90	19.80	34.33	34.55	21.28	19.59	9.97	5.56	2.22	16.91 CMS
MAX	1.90	81.00	61.60	33.50	35.50	65.80	150.70	26.00	29.50	14.50	8.40	2.80	150.70 CMS
MIN	0.40	0.40	16.30	8.80	8.60	21.10	18.70	19.90	16.00	8.40	3.00	1.80	0.40 CMS
RUNOFF	1.918	35.208	62.649	45.265	53.041	88.975	92.552	55.166	52.462	26.706	13.444	5.944	533.329 MCM

MOMENTARY PEAK 178.30 CMS, AT 289.41 M (MSL), AT 24.00 HOURS, ON OCT 4, 1980
RUNOFF YIELD 9.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 100.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE KLANG AT CHOM THONG, CHIANG MAI (P.24A)

LOCATION — LAT. 18°-25'-01" N., LONG. 98°-40'-29" E., ON LEFT BANK AT PRACHA UTHIT BRIDGE, AMPHOE CHOM THONG, CHIANG MAI.

DRAINAGE AREA — 460 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +274.693 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — B.M.1 NEAR THE GAGE OBSERVER'S HOUSE, B.M.2 ON LEFT BANK ABUTMENT OF PRACHA UTHIT BRIDGE.

ELEVATION — B.M.1 =+277.954 M. (M.S.L.); B.M.2 =+280.309 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

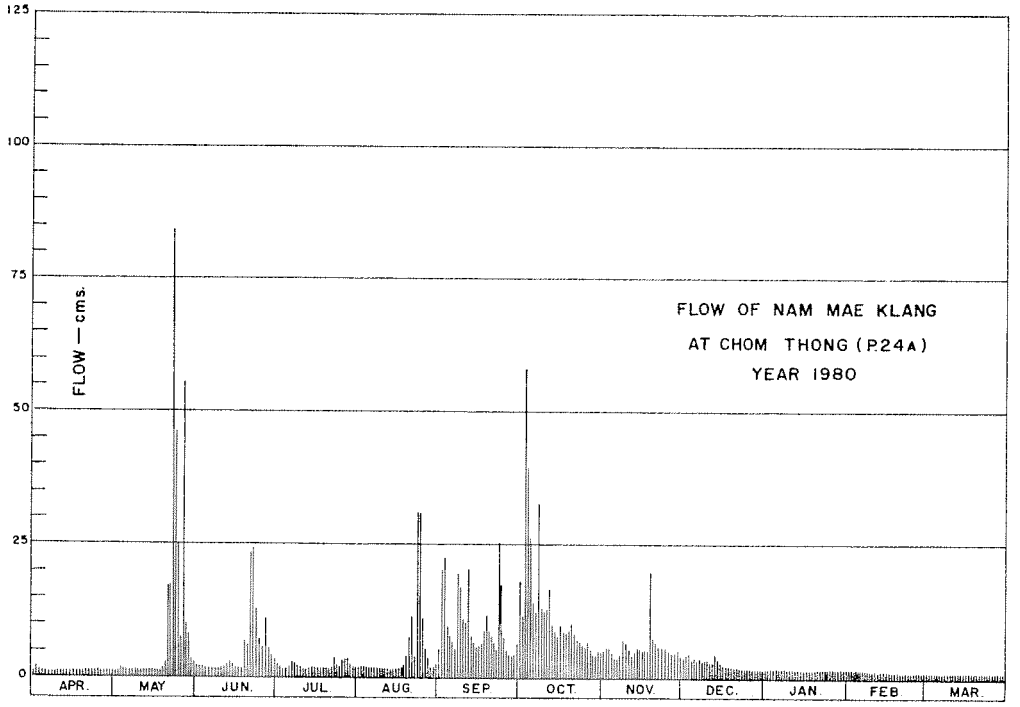
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 102 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	275.38	275.36	275.62	275.70	275.55	276.34	276.31	275.79	275.73	275.55	275.54	275.37	
2	275.56	275.37	275.58	275.63	275.53	276.45	276.08	275.82	275.75	275.54	275.50	275.36	
3	275.41	275.37	275.62	275.56	275.60	276.12	277.28	275.84	275.79	275.53	275.49	275.37	
4	275.40	275.56	275.58	275.55	275.53	275.94	276.86	275.78	275.75	275.52	275.43	275.38	
5	275.41	275.43	275.54	275.53	275.50	275.92	276.57	275.77	275.72	275.51	275.43	275.37	
6	275.41	275.42	275.50	275.60	275.53	275.82	276.18	275.74	275.73	275.51	275.41	275.39	
7	275.41	275.40	275.48	275.60	275.49	276.34	276.12	275.74	275.71	275.51	275.41	275.38	
8	275.40	275.38	275.48	275.66	275.48	276.29	276.72	275.80	275.73	275.51	275.41	275.38	
9	275.39	275.37	275.47	275.61	275.48	276.04	276.32	275.91	275.71	275.52	275.40	275.37	
10	275.38	275.37	275.47	275.58	275.47	276.02	276.11	275.85	275.73	275.51	275.41	275.38	
11	275.38	275.36	275.53	275.53	275.46	276.38	276.14	275.82	275.71	275.50	275.41	275.38	
12	275.37	275.35	275.57	275.46	275.45	276.05	276.25	275.77	275.69	275.51	275.40	275.38	
13	275.37	275.35	275.64	275.47	275.45	275.89	276.03	275.80	275.78	275.51	275.39	275.38	
14	275.37	275.35	275.69	275.45	275.45	275.83	275.97	275.83	275.73	275.50	275.39	275.36	
15	275.38	275.35	275.61	275.54	275.45	275.84	275.93	275.84	275.71	275.50	275.40	275.36	
16	275.38	275.34	275.59	275.49	275.49	275.85	276.01	275.82	275.69	275.49	275.39	275.36	
17	275.39	275.33	275.56	275.47	275.56	275.94	275.97	275.81	275.69	275.49	275.38	275.34	
18	275.38	275.33	275.57	275.45	275.67	276.08	275.94	275.77	275.66	275.49	275.37	275.34	
19	275.38	275.37	275.88	275.45	275.83	275.98	275.96	276.37	275.68	275.48	275.37	275.34	
20	275.37	275.68	275.84	275.47	275.93	275.92	276.03	275.91	275.65	275.48	275.38	275.34	
21	275.37	276.28	276.48	275.55	276.08	275.86	275.94	275.88	275.64	275.48	275.39	275.35	
22	275.37	276.28	276.49	275.56	275.74	275.80	275.89	275.84	275.63	275.45	275.38	275.34	
23	275.40	277.77	276.23	275.73	276.68	276.54	275.90	275.84	275.61	275.45	275.37	275.34	
24	275.37	276.81	275.95	275.56	276.68	275.94	275.85	275.84	275.57	275.45	275.37	275.35	
25	275.36	276.41	275.87	275.56	276.03	275.90	275.82	275.83	275.56	275.49	275.38	275.36	
26	275.35	275.93	275.81	275.72	275.81	275.79	275.88	275.82	275.54	275.51	275.39	275.36	
27	275.37	277.23	276.06	275.72	275.73	275.78	275.81	275.78	275.54	275.50	275.38	275.34	
28	275.37	276.04	275.84	275.73	275.64	275.75	275.77	275.79	275.55	275.50	275.37	275.35	
29	275.36	275.95	275.79	275.62	275.64	275.76	275.77	275.80	275.55	275.49		275.35	
30	275.36	275.77	275.75	275.60	275.61	275.89	275.76	275.79	275.55	275.49		275.36	
31		275.69		275.54	275.81		275.79		275.55	275.50		275.35	
MEAN	275.39	275.74	275.74	275.57	275.69	276.00	276.10	275.83	275.67	275.50	275.40	275.36	
MAX	275.56	277.77	276.49	275.73	276.68	276.54	277.28	276.37	275.79	275.55	275.54	275.39	277.77
MIN	275.35	275.33	275.47	275.45	275.45	275.75	275.76	275.74	275.54	275.45	275.37	275.34	275.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 278.24 M (MSL), AT 15.00 HOURS, ON MAY 23, 1980
ZERO GAGE AT BOTTOM ELEVATION 274.69 M (MSL), RIVER BED 275.04 M (MSL)
LEFT BANK ELEVATION 280.48 M (MSL)
RIGHT BANK ELEVATION 280.45 M (MSL), DRAINAGE AREA 460 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.27	1.20	2.20	3.00	1.83	19.20	18.30	4.80	3.60	1.83	1.80	1.23	
2	1.87	1.23	1.93	2.30	1.77	22.50	11.50	5.40	4.00	1.80	1.67	1.20	
3	1.37	1.23	2.20	1.87	2.00	12.60	58.00	5.80	4.80	1.77	1.63	1.23	
4	1.33	1.87	1.93	1.83	1.77	8.00	38.40	4.60	4.00	1.73	1.43	1.27	
5	1.37	1.43	1.80	1.77	1.67	7.50	26.80	4.40	3.40	1.70	1.43	1.23	
6	1.37	1.40	1.67	2.00	1.77	5.40	14.40	3.80	3.60	1.70	1.37	1.30	
7	1.37	1.33	1.60	2.00	1.63	19.20	12.60	3.80	3.20	1.70	1.37	1.27	
8	1.33	1.27	1.60	2.60	1.60	17.70	32.80	5.00	3.60	1.70	1.37	1.27	
9	1.30	1.23	1.57	2.10	1.60	10.50	18.60	7.25	3.20	1.73	1.33	1.23	
10	1.27	1.23	1.57	1.93	1.57	10.00	12.30	6.00	3.60	1.70	1.37	1.27	
11	1.27	1.20	1.77	1.77	1.53	20.40	13.20	5.40	3.20	1.67	1.37	1.27	
12	1.23	1.17	1.90	1.53	1.50	10.75	16.50	4.40	2.90	1.70	1.33	1.27	
13	1.23	1.17	2.40	1.57	1.50	6.80	10.25	5.00	4.60	1.70	1.30	1.27	
14	1.23	1.17	2.90	1.50	1.50	5.60	8.75	5.60	3.60	1.67	1.30	1.20	
15	1.27	1.17	2.10	1.80	1.50	5.80	7.75	5.80	3.20	1.67	1.33	1.20	
16	1.27	1.13	1.97	1.63	1.63	6.00	9.75	5.40	2.90	1.63	1.30	1.20	
17	1.30	1.10	1.87	1.57	1.87	8.00	8.75	5.20	2.90	1.63	1.27	1.13	
18	1.27	1.10	1.90	1.50	2.70	11.50	8.00	4.40	2.60	1.63	1.23	1.13	
19	1.27	1.23	6.60	1.50	5.60	9.00	8.50	20.10	2.80	1.60	1.23	1.13	
20	1.23	2.80	5.80	1.57	7.75	7.50	10.25	7.25	2.50	1.60	1.27	1.13	
21	1.23	17.40	23.40	1.83	11.50	6.60	8.00	6.60	2.40	1.60	1.30	1.17	
22	1.23	17.40	23.70	1.87	3.80	5.00	6.80	5.80	2.30	1.50	1.27	1.13	
23	1.33	84.48	15.90	3.60	31.20	25.60	7.00	5.80	2.10	1.50	1.23	1.13	
24	1.23	36.40	8.25	1.87	31.20	8.00	6.00	5.80	1.90	1.50	1.23	1.17	
25	1.20	21.30	6.40	1.87	10.25	7.00	5.40	5.60	1.87	1.63	1.27	1.20	
26	1.17	7.75	5.20	3.40	5.20	4.80	6.60	5.40	1.80	1.70	1.30	1.20	
27	1.23	55.50	11.00	3.40	3.60	4.60	5.20	4.60	1.80	1.67	1.27	1.13	
28	1.23	10.50	5.80	3.60	2.40	4.00	4.40	4.80	1.83	1.67	1.23	1.17	
29	1.20	8.25	4.80	2.20	2.40	4.20	4.40	5.00	1.83	1.63		1.17	
30	1.20	4.40	4.00	2.00	2.10	6.80	4.20	4.80	1.83	1.63		1.20	
31		2.90		1.80	5.20		4.80		1.83	1.67		1.17	
TOTAL	38.67	292.94	155.73	64.78	153.14	300.55	408.20	173.60	89.69	51.56	37.80	37.27	1803.93 CMSDAY
MEAN	1.29	9.45	5.19	2.09	4.94	10.02	13.17	5.79	2.89	1.66	1.35	1.20	4.94 CMS
MAX	1.87	84.48	23.70	3.60	31.20	25.60	58.00	20.10	4.80	1.83	1.80	1.30	84.48 CMS
MIN	1.17	1.10	1.57	1.50	1.50	4.00	4.20	3.80	1.80	1.50	1.23	1.13	1.10 CMS
RUNOFF	3.341	25.310	13.455	5.597	13.231	25.967	35.268	14.999	7.749	4.455	3.266	3.220	155.859 MCM

MOMENTARY PEAK 113.80 CMS, AT 278.24 M (MSL), AT 15.00 HOURS, ON MAY 23, 1980
RUNOFF YIELD 10.74 LITERS/SECOND/SQUARE KM. MOMENTARY PEAK YIELD 247.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE KLANG AT BAN MUANG KLANG, CHIANG MAI (P.24B)

LOCATION — LAT. 18°-28'-05" N., LONG. 98°-39'-48" E., ON LEFT BANK ABOUT 4 KILOMETERS DOWNSTREAM FROM THE WEIR BUILT BY THE LOCAL RESIDENTS AT BAN MUANG KLANG, AMPHOE CHOM THONG CHIANG MAI.

DRAINAGE AREA — -

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE BARRAGE OF IRRIGATION CANAL.

ELEVATION — +2.063 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 52 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

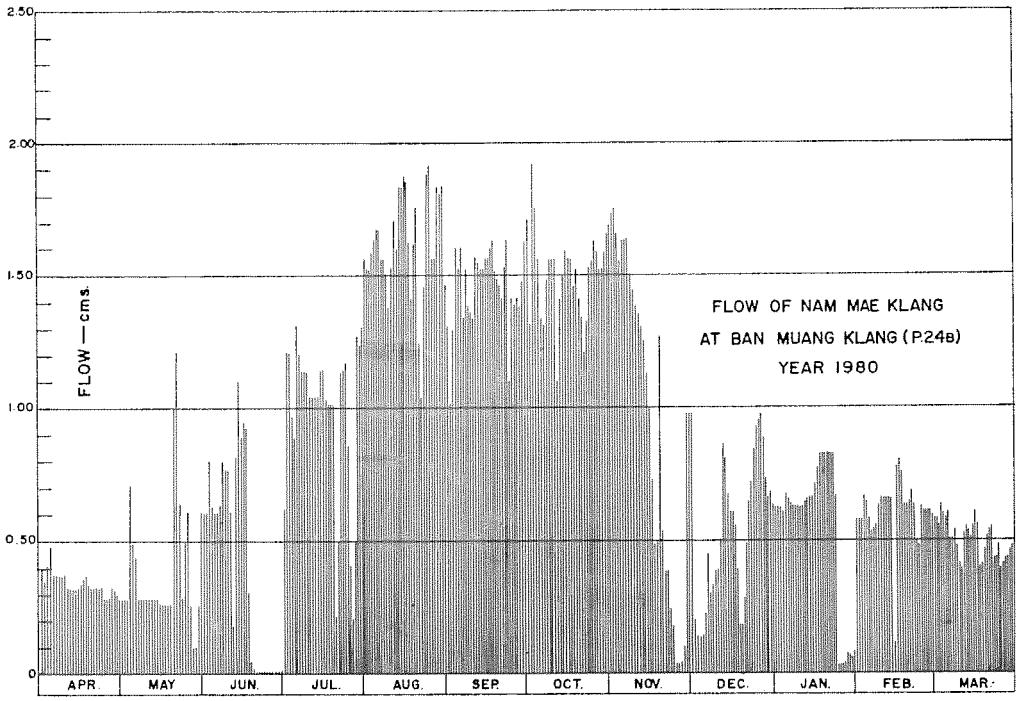
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.31	0.45	0.42	0.75	0.63	0.79	0.79	0.58	0.46	0.44	0.44	
2	0.34	0.31	0.45	0.65	0.74	0.59	0.68	0.80	0.26	0.46	0.44	0.44	
3	0.38	0.31	0.52	0.65	0.74	0.72	0.84	0.77	0.23	0.46	0.44	0.43	
4	0.40	0.49	0.46	0.62	0.77	0.76	0.78	0.75	0.23	0.45	0.47	0.46	
5	0.35	0.40	0.45	0.55	0.78	0.74	0.75	0.76	0.23	0.47	0.46	0.44	
6	0.35	0.38	0.45	0.68	0.78	0.76	0.69	0.77	0.28	0.48	0.43	0.45	
7	0.35	0.31	0.46	0.65	0.75	0.69	0.68	0.77	0.39	0.47	0.42	0.41	
8	0.35	0.31	0.52	0.63	0.75	0.74	0.73	0.74	0.32	0.46	0.43	0.41	
9	0.35	0.31	0.51	0.63	0.73	0.70	0.75	0.72	0.34	0.46	0.45	0.42	
10	0.34	0.31	0.51	0.63	0.70	0.69	0.75	0.71	0.36	0.46	0.47	0.37	
11	0.33	0.31	0.45	0.60	0.74	0.71	0.75	0.70	0.36	0.46	0.47	0.36	
12	0.33	0.31	0.25	0.60	0.79	0.75	0.62	0.68	0.43	0.46	0.47	0.42	
13	0.33	0.31	0.49	0.60	0.76	0.74	0.71	0.67	0.54	0.47	0.47	0.43	
14	0.33	0.31	0.62	0.60	0.82	0.74	0.74	0.65	0.50	0.47	0.39	0.42	
15	0.33	0.30	0.55	0.63	0.82	0.75	0.76	0.59	0.46	0.47	0.21	0.41	
16	0.34	0.30	0.57	0.63	0.83	0.75	0.75	0.58	0.45	0.49	0.51	0.45	
17	0.35	0.30	0.56	0.60	0.82	0.76	0.75	0.40	0.45	0.51	0.52	0.43	
18	0.34	0.30	0.30	0.59	0.71	0.77	0.72	0.41	0.41	0.52	0.48	0.36	
19	0.33	0.30	0.13	0.59	0.77	0.73	0.74	0.67	0.25	0.53	0.46	0.37	
20	0.33	0.53	0.12	0.59	0.80	0.73	0.72	0.43	0.25	0.53	0.46	0.40	
21	0.33	0.63	0.10	0.28	0.69	0.71	0.69	0.36	0.36	0.53	0.48	0.42	
22	0.33	0.65	0.10	0.40	0.63	0.72	0.65	0.36	0.46	0.53	0.46	0.43	
23	0.33	0.46	0.10	0.63	0.77	0.77	0.69	0.30	0.49	0.53	0.40	0.38	
24	0.31	0.31	0.10	0.63	0.83	0.62	0.74	0.25	0.53	0.45	0.40	0.38	
25	0.31	0.40	0.10	0.64	0.84	0.71	0.75	0.14	0.56	0.13	0.46	0.40	
26	0.31	0.45	0.11	0.47	0.75	0.70	0.77	0.14	0.57	0.14	0.45	0.36	
27	0.33	0.27	0.11	0.27	0.75	0.71	0.75	0.14	0.58	0.14	0.45	0.38	
28	0.33	0.20	0.11	0.41	0.82	0.70	0.74	0.21	0.55	0.17	0.45	0.38	
29	0.32	0.20	0.11	0.67	0.81	0.73	0.74	0.58	0.49	0.18		0.39	
30	0.31	0.29	0.11	0.66	0.82	0.77	0.76	0.58	0.47	0.16		0.40	
31		0.45		0.69	0.72		0.78		0.48	0.19		0.40	
MEAN	0.34	0.36	0.33	0.58	0.77	0.72	0.73	0.55	0.41	0.41	0.44	0.41	
MAX	0.40	0.65	0.62	0.69	0.84	0.77	0.84	0.80	0.58	0.53	0.52	0.46	0.84
MIN	0.31	0.20	0.10	0.27	0.63	0.59	0.62	0.14	0.23	0.13	0.21	0.36	0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT — 0.87 M (A.D.), AT 6.00 HOURS, ON OCT 3, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — 0.00 M (A.D.)

LEFT BANK ELEVATION — 2.32 M (A.D.)

RIGHT BANK ELEVATION — 1.00 M (A.D.), DRAINAGE AREA — SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.392	0.282	0.610	0.532	1.565	1.142	1.713	1.713	0.980	0.636	0.584	0.584	
2	0.348	0.282	0.610	1.210	1.528	1.010	1.312	1.750	0.196	0.636	0.584	0.584	
3	0.436	0.282	0.800	1.210	1.528	1.454	1.910	1.639	0.148	0.636	0.584	0.558	
4	0.480	0.714	0.636	1.108	1.639	1.602	1.676	1.565	0.148	0.610	0.662	0.636	
5	0.370	0.480	0.610	0.890	1.676	1.528	1.565	1.602	0.148	0.662	0.636	0.584	
6	0.370	0.436	0.610	1.312	1.676	1.602	1.346	1.639	0.228	0.688	0.558	0.610	
7	0.370	0.282	0.636	1.210	1.565	1.346	1.312	1.639	0.458	0.662	0.532	0.506	
8	0.370	0.282	0.800	1.142	1.565	1.528	1.491	1.528	0.304	0.636	0.558	0.506	
9	0.370	0.282	0.770	1.142	1.491	1.380	1.565	1.454	0.348	0.636	0.610	0.532	
10	0.348	0.282	0.770	1.142	1.380	1.346	1.565	1.417	0.392	0.636	0.662	0.414	
11	0.326	0.282	0.610	1.040	1.528	1.417	1.565	1.380	0.392	0.636	0.662	0.392	
12	0.326	0.282	0.180	1.040	1.713	1.565	1.108	1.312	0.558	0.636	0.662	0.532	
13	0.326	0.282	0.714	1.040	1.602	1.528	1.417	1.278	0.860	0.662	0.662	0.558	
14	0.326	0.282	1.108	1.040	1.830	1.528	1.528	1.210	0.740	0.662	0.458	0.532	
15	0.326	0.260	0.890	1.142	1.830	1.565	1.602	1.010	0.636	0.662	0.116	0.506	
16	0.348	0.260	0.950	1.142	1.870	1.565	1.565	0.980	0.610	0.714	0.770	0.610	
17	0.370	0.260	0.920	1.040	1.830	1.602	1.565	0.480	0.610	0.770	0.800	0.558	
18	0.348	0.260	0.260	1.010	1.417	1.639	1.454	0.506	0.506	0.800	0.688	0.392	
19	0.326	0.260	0.030	1.010	1.639	1.491	1.528	1.278	0.180	0.830	0.636	0.414	
20	0.326	0.830	0.020	1.010	1.750	1.491	1.454	0.558	0.180	0.830	0.636	0.480	
21	0.326	1.142	0.000	0.228	1.346	1.417	1.346	0.392	0.392	0.830	0.688	0.532	
22	0.326	1.210	0.000	0.480	1.142	1.454	1.210	0.392	0.636	0.830	0.636	0.558	
23	0.326	0.636	0.000	1.142	1.639	1.639	1.346	0.260	0.714	0.830	0.480	0.436	
24	0.282	0.282	0.000	1.142	1.870	1.108	1.528	0.180	0.830	0.610	0.480	0.436	
25	0.282	0.480	0.000	1.176	1.910	1.417	1.565	0.040	0.920	0.030	0.636	0.480	
26	0.282	0.610	0.010	0.662	1.565	1.380	1.639	0.040	0.950	0.040	0.610	0.392	
27	0.326	0.212	0.010	0.212	1.565	1.417	1.565	0.040	0.980	0.040	0.610	0.436	
28	0.326	0.100	0.010	0.506	1.830	1.380	1.528	0.116	0.890	0.070	0.610	0.436	
29	0.304	0.100	0.010	1.278	1.790	1.491	1.528	0.980	0.714	0.080		0.458	
30	0.282	0.244	0.010	1.244	1.830	1.639	1.602	0.980	0.662	0.060		0.480	
31		0.610		1.346	1.454		1.676		0.688	0.090		0.480	
TOTAL	10.264	12.488	12.584	30.828	50.563	43.671	46.774	29.358	16.998	17.150	16.810	15.612	303.099 CMSDAY
MEAN	0.342	0.403	0.419	0.994	1.631	1.456	1.509	0.979	0.548	0.553	0.600	0.504	0.830 CMS
MAX	0.480	1.210	1.108	1.346	1.910	1.639	1.910	1.750	0.980	0.830	0.800	0.636	1.910 CMS
MIN	0.282	0.100	0.000	0.212	1.142	1.010	1.108	0.040	0.148	0.030	0.116	0.392	0.000 CMS
RUNOFF	0.887	1.079	1.087	2.664	4.369	3.773	4.041	2.537	1.469	1.482	1.452	1.349	26.188 MCM

MOMENTARY PEAK 2.03 CMS, AT 0.87 M (A.D), AT 6.00 HOURS, ON OCT 3, 1980

RUNOFF YIELD LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE KLANG AT BAN MUANG KLANG, CHIANG MAI (P.24C)

LOCATION — LAT. 18°-28'-03" N., LONG. 98°-38'-41" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM THE WEIR BUILT BY THE LOCAL RESIDENTS AT BAN MUANG KLANG, AMPHOE CHOM THONG CHIANG MAI.

DRAINAGE AREA — -

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE BARRAGE OF IRRIGATION CANAL.

ELEVATION — +2.063 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

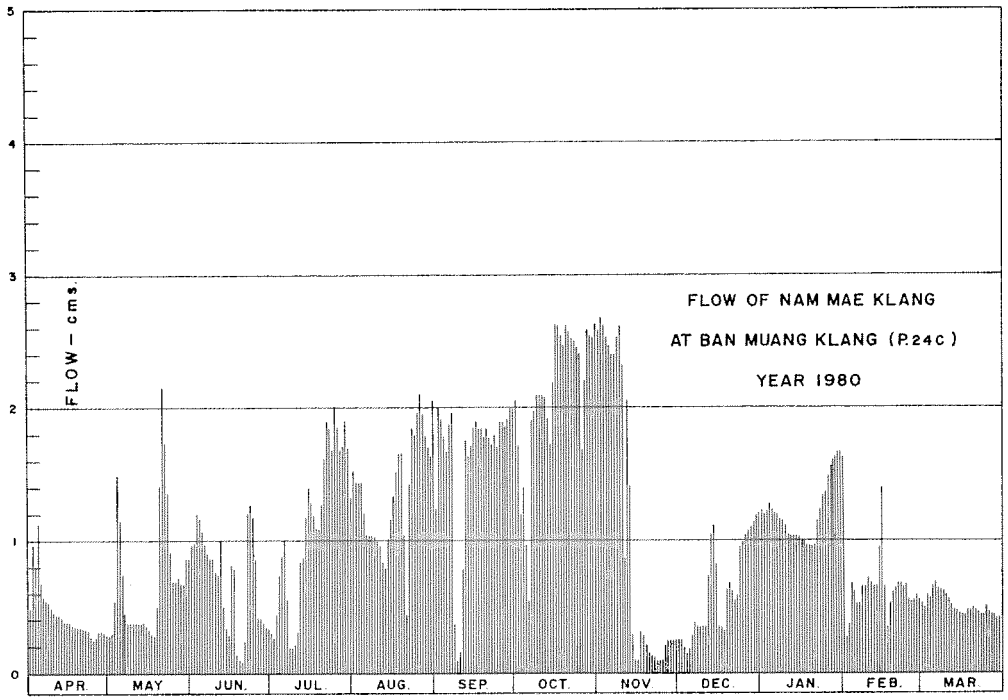
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.17	0.39	0.18	0.53	0.46	0.64	0.74	0.15	0.46	0.20	0.26	
2	0.39	0.17	0.39	0.15	0.51	0.63	0.58	0.76	0.15	0.45	0.15	0.25	
3	0.34	0.18	0.45	0.22	0.51	0.61	0.45	0.75	0.13	0.45	0.19	0.28	
4	0.43	0.52	0.44	0.31	0.51	0.58	0.50	0.73	0.10	0.47	0.31	0.27	
5	0.31	0.42	0.41	0.37	0.43	0.56	0.40	0.72	0.10	0.46	0.29	0.30	
6	0.27	0.28	0.38	0.40	0.41	0.60	0.26	0.71	0.16	0.45	0.25	0.31	
7	0.26	0.21	0.37	0.28	0.41	0.62	0.61	0.71	0.21	0.45	0.26	0.30	
8	0.26	0.21	0.36	0.12	0.41	0.20	0.62	0.73	0.20	0.44	0.30	0.29	
9	0.25	0.21	0.36	0.12	0.41	0.06	0.65	0.75	0.20	0.44	0.30	0.29	
10	0.23	0.21	0.33	0.12	0.40	0.06	0.65	0.69	0.20	0.43	0.32	0.28	
11	0.23	0.21	0.32	0.18	0.39	0.24	0.65	0.36	0.20	0.41	0.31	0.27	
12	0.23	0.21	0.40	0.35	0.35	0.58	0.64	0.64	0.33	0.41	0.30	0.25	
13	0.23	0.21	0.26	0.36	0.34	0.55	0.61	0.40	0.41	0.41	0.30	0.24	
14	0.21	0.21	0.17	0.41	0.42	0.56	0.57	0.09	0.43	0.41	0.38	0.24	
15	0.21	0.20	0.17	0.50	0.44	0.60	0.63	0.07	0.34	0.41	0.50	0.23	
16	0.21	0.19	0.35	0.48	0.48	0.61	0.75	0.07	0.20	0.40	0.29	0.23	
17	0.20	0.17	0.34	0.44	0.53	0.60	0.75	0.18	0.20	0.40	0.19	0.23	
18	0.20	0.17	0.09	0.42	0.56	0.60	0.74	0.17	0.19	0.39	0.26	0.24	
19	0.20	0.18	0.07	0.42	0.56	0.58	0.72	0.13	0.29	0.39	0.29	0.24	
20	0.20	0.43	0.05	0.45	0.35	0.60	0.75	0.11	0.31	0.39	0.30	0.25	
21	0.19	0.56	0.13	0.54	0.23	0.58	0.74	0.09	0.30	0.39	0.31	0.24	
22	0.19	0.56	0.45	0.61	0.49	0.57	0.73	0.08	0.27	0.44	0.31	0.24	
23	0.19	0.46	0.47	0.60	0.60	0.59	0.73	0.07	0.26	0.45	0.30	0.23	
24	0.16	0.36	0.45	0.56	0.59	0.57	0.72	0.07	0.38	0.48	0.31	0.23	
25	0.15	0.31	0.38	0.63	0.61	0.61	0.71	0.07	0.40	0.49	0.27	0.25	
26	0.15	0.30	0.22	0.60	0.65	0.61	0.56	0.15	0.41	0.51	0.26	0.24	
27	0.18	0.32	0.22	0.56	0.62	0.60	0.72	0.15	0.42	0.54	0.27	0.23	
28	0.18	0.30	0.21	0.57	0.58	0.61	0.74	0.15	0.42	0.55	0.28	0.23	
29	0.18	0.30	0.20	0.61	0.57	0.63	0.73	0.15	0.45	0.56		0.22	
30	0.17	0.35	0.20	0.56	0.55	0.63	0.74	0.15	0.45	0.56		0.21	
31		0.36		0.48	0.64		0.75		0.45	0.41		0.23	
MEAN	0.23	0.29	0.30	0.41	0.49	0.53	0.65	0.35	0.28	0.45	0.29	0.25	
MAX	0.43	0.66	0.47	0.63	0.65	0.63	0.75	0.76	0.45	0.56	0.50	0.31	0.76
MIN	0.15	0.17	0.05	0.12	0.23	0.06	0.26	0.07	0.10	0.39	0.15	0.21	0.05

ANNUAL MAX MOMENTARY GAGE HEIGHT — 0.81 M (A.D), AT 18.00 HOURS, ON MAY 21, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.00 M (A.D)

LEFT BANK ELEVATION — 1.69 M (A.D)

RIGHT BANK ELEVATION — 1.29 M (A.D), DRAINAGE AREA — SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.47	0.29	0.96	0.31	1.53	1.24	2.05	2.57	0.25	1.24	0.35	0.53	
2	0.96	0.29	0.96	0.25	1.44	2.00	1.76	2.68	0.25	1.20	0.25	0.50	
3	0.79	0.31	1.20	0.41	1.44	1.90	1.20	2.62	0.21	1.20	0.33	0.59	
4	1.12	1.49	1.16	0.68	1.44	1.76	1.40	2.51	0.15	1.28	0.68	0.56	
5	0.68	1.08	1.04	0.89	1.12	1.67	1.00	2.46	0.15	1.24	0.62	0.65	
6	0.56	0.59	0.93	1.00	1.04	1.85	0.53	2.40	0.27	1.20	0.50	0.68	
7	0.53	0.38	0.89	0.59	1.04	1.95	1.90	2.40	0.38	1.20	0.53	0.65	
8	0.53	0.38	0.86	0.19	1.04	0.35	1.95	2.51	0.35	1.16	0.65	0.62	
9	0.50	0.38	0.86	0.19	1.04	0.09	2.10	2.62	0.35	1.16	0.65	0.62	
10	0.44	0.38	0.75	0.19	1.00	0.09	2.10	2.30	0.35	1.12	0.72	0.59	
11	0.44	0.38	0.72	0.31	0.96	0.47	2.10	0.86	0.35	1.04	0.68	0.56	
12	0.44	0.38	1.00	0.82	0.82	1.76	2.05	2.05	0.75	1.04	0.65	0.50	
13	0.44	0.38	0.53	0.86	0.79	1.62	1.90	1.00	1.04	1.04	0.65	0.47	
14	0.38	0.38	0.29	1.04	1.08	1.67	1.71	0.13	1.12	1.04	0.93	0.47	
15	0.38	0.35	0.29	1.40	1.16	1.85	2.00	0.10	0.79	1.04	1.40	0.44	
16	0.38	0.33	0.82	1.32	1.32	1.90	2.62	0.10	0.35	1.00	0.62	0.44	
17	0.35	0.29	0.79	1.16	1.53	1.85	2.62	0.31	0.35	1.00	0.33	0.44	
18	0.35	0.29	0.13	1.08	1.67	1.85	2.57	0.29	0.33	0.96	0.53	0.47	
19	0.35	0.31	0.10	1.08	1.67	1.76	2.46	0.21	0.62	0.96	0.62	0.47	
20	0.35	1.12	0.07	1.20	0.82	1.85	2.62	0.17	0.68	0.96	0.65	0.50	
21	0.33	2.15	0.21	1.58	0.44	1.76	2.57	0.13	0.65	0.96	0.68	0.47	
22	0.33	1.67	1.20	1.90	1.36	1.71	2.51	0.12	0.56	1.16	0.68	0.47	
23	0.33	1.24	1.28	1.85	1.85	1.80	2.51	0.10	0.53	1.20	0.65	0.44	
24	0.27	0.86	1.20	1.67	1.80	1.71	2.46	0.10	0.93	1.32	0.68	0.44	
25	0.25	0.68	0.93	2.00	1.90	1.90	2.40	0.10	1.00	1.36	0.56	0.50	
26	0.25	0.65	0.41	1.85	2.10	1.90	1.67	0.25	1.04	1.44	0.53	0.47	
27	0.31	0.72	0.41	1.67	1.95	1.85	2.46	0.25	1.08	1.58	0.56	0.44	
28	0.31	0.65	0.38	1.71	1.76	1.90	2.57	0.25	1.08	1.62	0.59	0.44	
29	0.31	0.65	0.35	1.90	1.71	2.00	2.51	0.25	1.20	1.67		0.41	
30	0.29	0.86	0.35	1.67	1.62	2.00	2.57	0.25	1.20	1.67		0.38	
31		0.86		1.32	2.05		2.62		1.20	1.04		0.44	
TOTAL	13.42	20.77	1.07	34.09	42.49	48.01	65.49	32.09	19.56	37.10	17.27	15.65	367.01 CMSDAY
MEAN	0.45	0.67	0.70	1.10	1.37	1.60	2.11	1.07	0.63	1.20	0.62	0.50	1.01 CMS
MAX	1.12	2.15	1.28	2.00	2.10	2.00	2.62	2.68	1.20	1.67	1.40	0.68	2.68 CMS
MIN	0.25	0.29	0.07	0.19	0.44	0.09	0.53	0.10	0.15	0.96	0.25	0.38	0.07 CMS
RUNOFF	1.159	1.795	1.820	2.945	3.671	4.148	5.658	2.773	1.690	3.205	1.492	1.352	31.710 MCM

MOMENTARY PEAK 2.95 CMS, AT 0.81 M (A.D), AT 18.00 HOURS, ON MAY 21, 1980

RUNOFF YIELD LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

KHLONG SUAN MAK AT BAN MAI, KAMPHAENG PHET (P.26A)

LOCATION — LAT. 16°-26'-57" N., LONG. 99°-26'-27" E., ON RIGHT BANK ABOUT 5.15 METERS DOWNSTREAM FROM THA KRADAN WEIR AT BAN MAI, TAMBON NA BO KHUM, AMPHOE MUANG, KAMPHAENG PHET

DRAINAGE AREA — 969 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +6.144 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972-1975

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972-1975

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY THA KRADAN WEIR BUILT BY THE LOCAL RESIDENTS.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-MAY 14, 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

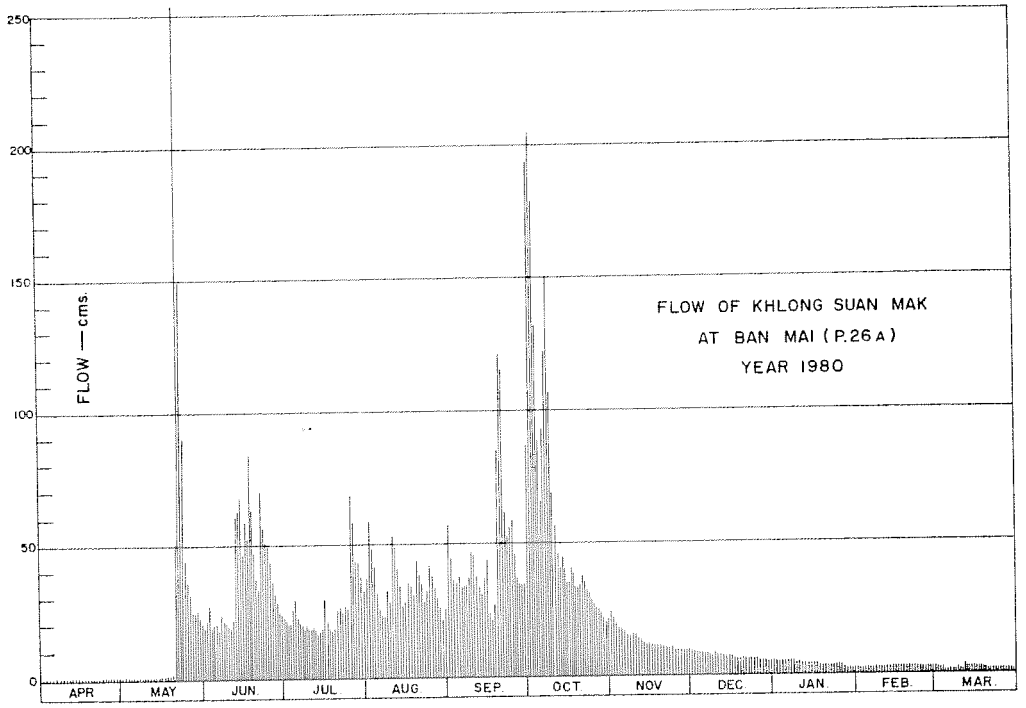
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.01	-0.01	0.94	1.07	1.40	1.82	2.58	1.11	0.62	0.46	0.30	0.27	
2	-0.01	-0.01	1.22	1.04	1.88	1.56	3.76	0.99	0.60	0.46	0.28	0.28	
3	-0.01	-0.01	1.02	0.98	1.63	1.42	3.89	0.95	0.60	0.45	0.27	0.28	
4	-0.01	-0.01	0.97	1.14	1.52	1.36	3.26	0.91	0.59	0.45	0.27	0.26	
5	-0.01	-0.01	0.99	1.22	1.26	1.43	2.30	0.90	0.59	0.45	0.28	0.23	
6	-0.01	-0.01	0.92	1.06	1.18	1.33	2.02	0.87	0.59	0.45	0.26	0.23	
7	-0.01	-0.01	1.09	1.01	1.08	1.35	2.72	0.84	0.59	0.45	0.30	0.23	
8	-0.01	-0.01	1.07	0.96	1.04	1.37	3.26	0.83	0.57	0.45	0.30	0.24	
9	-0.01	-0.01	1.00	0.94	1.30	1.47	2.59	0.85	0.57	0.44	0.29	0.26	
10	-0.01	-0.01	0.96	0.97	1.23	1.62	2.04	0.86	0.58	0.44	0.28	0.24	
11	-0.01	-0.01	0.93	0.95	1.74	1.45	1.78	0.81	0.57	0.44	0.29	0.24	
12	-0.01	-0.01	1.06	0.97	1.64	1.41	1.61	0.79	0.56	0.43	0.30	0.34	
13	-0.01	-0.01	1.88	0.93	1.46	1.32	1.51	0.76	0.55	0.43	0.30	0.32	
14	-0.01	-0.01	2.04	0.88	1.25	1.23	1.58	0.75	0.55	0.43	0.30	0.28	
15	-0.01	0.00	1.62	0.93	1.18	1.56	1.39	0.74	0.55	0.41	0.29	0.27	
16	-0.01	-0.01	1.87	1.23	1.27	1.13	1.38	0.73	0.54	0.40	0.28	0.26	
17	-0.01	-0.01	1.72	0.99	1.38	1.02	1.51	0.71	0.53	0.40	0.27	0.25	
18	-0.01	-0.01	2.30	0.95	1.31	1.16	1.43	0.70	0.53	0.38	0.27	0.25	
19	-0.01	-0.01	1.72	0.94	1.28	2.24	1.34	0.69	0.53	0.38	0.27	0.23	
20	-0.01	-0.01	1.45	0.93	1.56	2.83	1.39	0.70	0.52	0.38	0.27	0.22	
21	-0.01	1.40	1.32	1.12	1.43	2.73	1.42	0.68	0.52	0.37	0.29	0.23	
22	-0.01	4.43	2.08	1.17	1.30	1.94	1.41	0.68	0.51	0.37	0.28	0.22	
23	-0.01	3.91	1.79	1.11	1.21	1.75	1.30	0.68	0.51	0.36	0.28	0.22	
24	-0.01	2.12	1.70	1.19	1.30	1.80	1.28	0.67	0.50	0.36	0.27	0.21	
25	-0.01	1.57	1.66	1.13	1.52	1.86	1.20	0.65	0.50	0.36	0.27	0.20	
26	-0.01	1.33	1.52	2.06	1.38	1.58	1.13	0.65	0.49	0.35	0.27	0.20	
27	-0.01	1.20	1.34	1.84	1.29	1.41	1.14	0.65	0.48	0.33	0.27	0.20	
28	-0.01	1.10	1.25	1.57	1.18	1.36	1.10	0.64	0.48	0.32	0.26	0.20	
29	-0.01	1.13	1.17	1.55	1.10	1.38	1.03	0.64	0.48	0.31		0.19	
30	-0.01	1.05	1.09	1.49	1.03	1.96	0.99	0.62	0.47	0.31		0.19	
31		1.00		1.30	1.17		1.04		0.46	0.30		0.18	
MEAN	-0.01	0.65	1.39	1.15	1.34	1.59	1.82	0.77	0.54	0.40	0.28	0.24	
MAX	-0.01	4.43	2.30	2.06	1.88	2.83	3.89	1.11	0.62	0.46	0.30	0.34	4.43
MIN	-0.01	-0.01	0.92	0.88	1.03	1.02	0.99	0.62	0.46	0.30	0.26	0.18	-0.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.96 M (A.D.), AT 18.00 HOURS, ON MAY 22, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED M (A.D.)

LEFT BANK ELEVATION M (A.D.)

RIGHT BANK ELEVATION M (A.D.), DRAINAGE AREA 968 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	18.40	22.95	36.00	56.00	102.60	24.40	9.00	5.20	2.50	2.20	
2	0.00	0.00	28.80	21.90	59.00	43.00	192.40	20.15	8.50	5.20	2.30	2.30	
3	0.00	0.00	21.20	19.80	46.50	36.80	204.10	18.75	8.50	5.00	2.20	2.30	
4	0.00	0.00	19.45	25.60	41.00	34.40	150.20	17.35	8.25	5.00	2.20	2.10	
5	0.00	0.00	20.15	28.80	31.20	37.20	83.00	17.00	8.25	5.00	2.30	1.80	
6	0.00	0.00	17.70	22.60	27.20	33.20	66.60	16.10	8.25	5.00	2.10	1.80	
7	0.00	0.00	23.65	20.85	23.30	34.00	112.40	15.20	8.25	5.00	2.50	1.80	
8	0.00	0.00	22.95	19.10	21.90	34.80	150.20	14.90	7.75	5.00	2.50	1.90	
9	0.00	0.00	20.50	18.40	32.00	38.80	103.30	15.50	7.75	4.80	2.40	2.10	
10	0.00	0.00	19.10	19.45	29.20	46.00	67.70	15.80	8.00	4.80	2.30	1.90	
11	0.00	0.00	18.05	18.75	52.00	38.00	54.00	14.30	7.75	4.80	2.40	1.90	
12	0.00	0.00	22.60	19.45	47.00	36.40	45.50	13.70	7.50	4.60	2.80	3.10	
13	0.00	0.00	59.00	18.05	38.40	32.80	40.50	12.80	7.25	4.60	2.50	2.80	
14	0.00	0.00	67.70	16.40	30.00	29.20	44.00	12.50	7.25	4.60	2.80	2.30	
15	0.00	0.00	46.00	18.05	27.20	43.00	35.60	12.20	7.25	4.20	2.40	2.20	
16	0.00	0.00	58.50	29.20	30.80	25.20	35.20	11.90	7.00	4.00	2.30	2.10	
17	0.00	0.00	51.00	20.15	35.20	21.20	40.50	11.30	6.75	4.00	2.20	2.00	
18	0.00	0.00	83.00	18.75	32.40	26.40	37.20	11.00	6.75	3.70	2.20	2.00	
19	0.00	0.00	51.00	18.40	31.20	79.40	33.60	10.75	6.75	3.70	2.20	1.80	
20	0.00	0.00	38.00	18.05	43.00	120.10	35.60	11.00	6.50	3.70	2.20	1.70	
21	0.00	36.00	32.80	24.80	37.20	113.10	36.80	10.50	6.50	3.55	2.40	1.80	
22	0.00	253.00	69.90	26.80	32.00	62.20	36.40	10.50	6.25	3.55	2.30	1.70	
23	0.00	205.90	54.50	24.40	28.40	52.50	32.00	10.50	6.25	3.40	2.30	1.70	
24	0.00	72.20	50.00	27.60	32.00	55.00	31.20	10.25	6.00	3.40	2.20	1.60	
25	0.00	43.50	48.00	25.20	41.00	58.00	28.00	9.75	6.00	3.40	2.20	1.50	
26	0.00	33.20	41.00	68.80	35.20	44.00	25.20	9.75	5.80	3.25	2.20	1.50	
27	0.00	28.00	33.60	57.00	31.60	36.40	25.60	9.75	5.60	2.95	2.20	1.50	
28	0.00	24.00	30.00	43.50	27.20	34.40	24.00	9.50	5.60	2.80	2.10	1.50	
29	0.00	25.20	26.80	42.50	24.00	35.20	21.55	9.50	5.60	2.65		1.40	
30	0.00	22.25	23.65	39.60	21.55	63.30	20.15	9.00	5.40	2.65		1.40	
31		20.50		32.00	26.80		21.90		5.20	2.50		1.30	
TOTAL	0.00	763.75	1117.00	826.90	1051.45	1400.00	1937.00	395.60	217.45	126.00	64.60	59.00	7958.74 CMSDAY
MEAN	0.00	24.64	37.23	26.67	33.92	46.67	62.48	13.19	7.01	4.06	2.31	1.90	21.80 CMS
MAX	0.00	253.00	83.00	68.80	59.00	120.10	204.10	24.40	9.00	5.20	2.50	3.10	253.00 CMS
MIN	0.00	0.00	17.70	16.40	21.55	21.20	20.15	9.00	5.20	2.50	2.10	1.30	0.00 CMS
RUNOFF	0.000	65.988	96.509	71.444	90.845	120.960	167.357	34.180	18.788	10.886	5.581	5.098	687.635 MCM

MOMENTARY PEAK 306.00 CMS, AT 4.96 M (A.D), AT 18.00 HOURS, ON MAY 22, 1980

RUNOFF YIELD 22.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 316.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE LI AT BAN HONG, LAMPHUN (P.29)

LOCATION — LAT. 18°-18'-35" N., LONG. 98°-49'-35" E., ON LEFT BANK ABOUT 10 METERS UPSTREAM FROM KAEO SONTHI BRIDGE, AMPHOE BAN HONG, LAMPHUN.

DRAINAGE AREA — 1,970 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-P.29

LOCATION — ABOUT 3 METERS FROM THE ABUTMENT OF THE BRIDGE.

ELEVATION — +3.420 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1980.

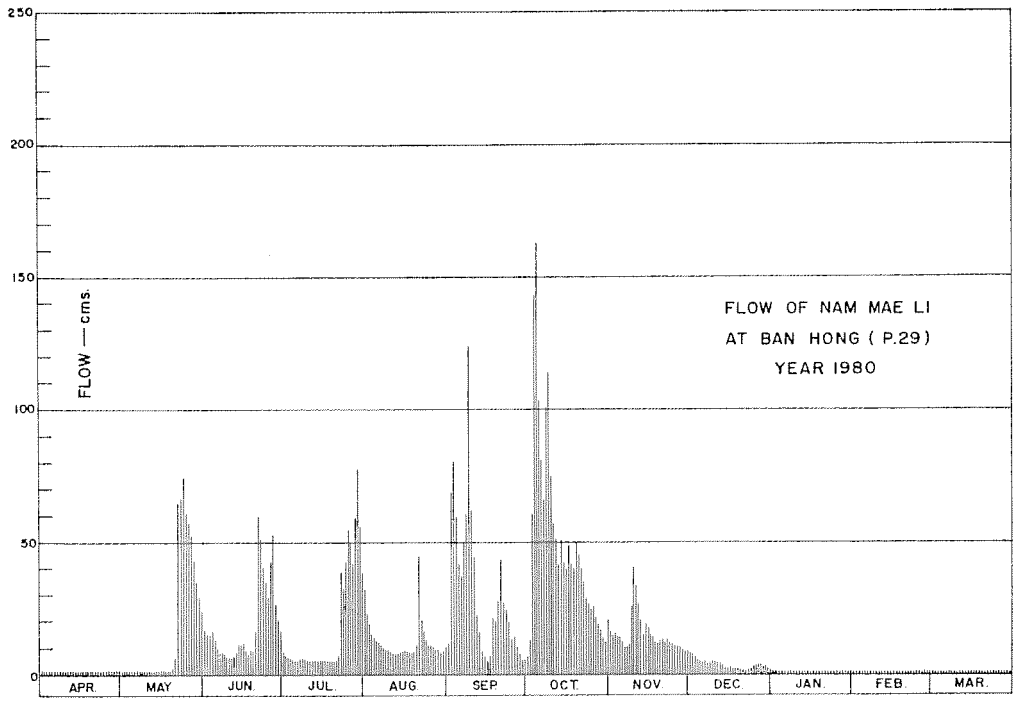
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.28	0.93	0.71	1.18	0.74	0.56	0.95	0.63	0.31	0.19	0.19	
2	0.24	0.28	0.84	0.59	0.98	1.65	0.79	0.81	0.61	0.28	0.19	0.19	
3	0.24	0.27	0.82	0.52	0.91	1.76	1.75	0.85	0.55	0.27	0.19	0.19	
4	0.23	0.27	0.86	0.50	0.82	1.51	2.38	0.81	0.47	0.23	0.19	0.19	
5	0.22	0.27	0.78	0.48	0.79	1.35	2.49	0.82	0.44	0.23	0.19	0.19	
6	0.23	0.27	0.72	0.48	0.74	1.24	1.82	0.77	0.44	0.23	0.21	0.19	
7	0.24	0.26	0.63	0.50	0.70	1.44	1.63	0.68	0.45	0.23	0.20	0.19	
8	0.25	0.26	0.63	0.50	0.69	1.77	1.93	0.73	0.43	0.23	0.20	0.19	
9	0.25	0.26	0.58	0.50	0.66	2.18	2.09	1.01	0.49	0.23	0.19	0.19	
10	0.25	0.25	0.54	0.49	0.65	1.59	1.70	1.29	0.46	0.22	0.20	0.19	
11	0.25	0.25	0.52	0.48	0.63	1.35	1.50	1.19	0.46	0.22	0.19	0.19	
12	0.25	0.24	0.52	0.48	0.62	0.99	1.43	1.06	0.44	0.21	0.19	0.19	
13	0.26	0.23	0.55	0.47	0.62	0.74	1.31	0.95	0.40	0.21	0.20	0.19	
14	0.26	0.22	0.70	0.46	0.62	0.60	1.43	0.83	0.38	0.21	0.20	0.19	
15	0.27	0.22	0.68	0.46	0.64	0.52	1.31	0.91	0.34	0.21	0.19	0.19	
16	0.28	0.22	0.79	0.46	0.65	0.47	1.28	0.88	0.35	0.20	0.19	0.19	
17	0.29	0.19	0.61	0.47	0.64	0.59	1.41	0.83	0.34	0.20	0.19	0.19	
18	0.30	0.20	0.57	0.48	0.62	0.97	1.31	0.77	0.32	0.20	0.20	0.20	
19	0.30	0.20	0.65	0.46	0.61	0.94	1.28	0.75	0.32	0.20	0.19	0.20	
20	0.29	0.25	0.66	0.47	0.70	1.14	1.42	0.77	0.30	0.20	0.19	0.20	
21	0.28	0.45	0.83	0.46	1.35	1.34	1.34	0.78	0.26	0.20	0.19	0.20	
22	0.27	1.33	1.54	0.51	1.03	1.09	1.25	0.76	0.25	0.20	0.19	0.20	
23	0.28	1.61	1.39	1.26	0.91	1.03	1.19	0.78	0.32	0.20	0.19	0.20	
24	0.28	1.64	1.29	1.17	0.79	0.94	1.09	0.76	0.32	0.20	0.19	0.20	
25	0.26	1.71	1.21	1.39	0.73	0.78	1.03	0.73	0.35	0.20	0.19	0.21	
26	0.28	1.54	1.11	1.48	0.71	0.81	1.05	0.72	0.35	0.20	0.19	0.20	
27	0.28	1.50	1.45	1.31	0.66	0.70	0.95	0.69	0.35	0.20	0.19	0.20	
28	0.28	1.33	1.10	1.49	0.66	0.61	0.91	0.65	0.34	0.20	0.19	0.19	
29	0.28	1.24	1.00	1.74	0.65	0.51	0.85	0.64	0.35	0.20		0.19	
30	0.27	1.15	0.88	1.49	0.63	0.46	0.76	0.64	0.34	0.21		0.19	
31		1.04		1.28	0.63		0.76		0.34	0.21		0.19	
MEAN	0.26	0.63	0.85	0.76	0.75	1.06	1.35	0.83	0.39	0.22	0.19	0.19	
MAX	0.30	1.71	1.54	1.74	1.35	2.18	2.49	1.29	0.63	0.31	0.21	0.21	2.49
MIN	0.22	0.19	0.52	0.46	0.61	0.46	0.56	0.64	0.25	0.20	0.19	0.19	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.73 M (A.D), AT 6.00 HOURS, ON OCT 5, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -1.55 M (A.D)

LEFT BANK ELEVATION — 5.05 M (A.D)

RIGHT BANK ELEVATION — 5.09 M (A.D), DRAINAGE AREA 1970 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.53	1.87	19.50	11.30	32.80	12.20	7.20	20.50	8.90	2.20	1.27	1.27	
2	1.60	1.87	15.60	7.80	22.00	68.50	13.70	14.40	8.30	1.87	1.27	1.27	
3	1.60	1.80	14.80	6.40	18.50	79.00	78.00	16.00	7.00	1.80	1.27	1.27	
4	1.53	1.80	16.40	6.00	14.80	56.80	147.60	14.40	5.40	1.53	1.27	1.27	
5	1.47	1.80	13.40	5.60	13.70	44.50	162.60	14.80	4.80	1.53	1.27	1.27	
6	1.53	1.80	11.60	5.60	12.20	36.80	85.00	13.10	4.80	1.53	1.40	1.27	
7	1.60	1.73	8.90	6.00	11.00	51.20	66.70	10.40	5.00	1.53	1.33	1.27	
8	1.67	1.73	8.90	6.00	10.70	80.00	96.30	11.90	4.60	1.53	1.33	1.27	
9	1.67	1.73	7.60	6.00	9.80	123.80	113.90	23.50	5.80	1.53	1.27	1.27	
10	1.67	1.67	6.80	5.80	9.50	63.20	73.00	40.30	5.20	1.47	1.33	1.27	
11	1.67	1.67	6.40	5.60	8.90	44.50	56.00	33.40	5.20	1.47	1.27	1.27	
12	1.67	1.60	6.40	5.60	8.60	22.50	50.40	26.00	4.80	1.40	1.27	1.27	
13	1.73	1.53	7.00	5.40	8.60	12.20	41.70	20.50	4.00	1.40	1.33	1.27	
14	1.73	1.47	11.00	5.20	8.60	8.00	50.40	15.20	3.60	1.40	1.33	1.27	
15	1.80	1.47	10.40	5.20	9.20	6.40	41.70	18.50	2.80	1.40	1.27	1.27	
16	1.87	1.47	13.70	5.20	9.50	5.40	39.60	17.20	3.00	1.33	1.27	1.27	
17	1.87	1.27	8.30	5.40	9.20	7.80	48.80	15.20	2.80	1.33	1.27	1.27	
18	2.00	1.33	7.40	5.60	8.60	21.50	41.70	13.10	2.40	1.33	1.33	1.33	
19	2.00	1.33	9.50	5.20	8.30	20.00	39.60	12.50	2.40	1.33	1.27	1.33	
20	1.93	1.67	9.80	5.40	11.00	30.40	49.60	13.10	2.00	1.33	1.27	1.33	
21	1.87	5.00	15.20	5.20	44.50	43.80	43.80	13.40	1.73	1.33	1.27	1.33	
22	1.80	43.10	59.20	6.20	24.50	27.50	37.50	12.80	1.67	1.33	1.27	1.33	
23	1.87	64.90	47.30	38.20	18.50	24.50	33.40	13.40	2.40	1.33	1.27	1.33	
24	1.87	67.60	40.30	32.20	13.70	20.00	27.50	12.80	2.40	1.33	1.27	1.33	
25	1.87	74.00	34.70	47.30	11.90	13.40	24.50	11.90	3.00	1.33	1.27	1.40	
26	1.87	59.20	28.60	54.40	11.30	14.40	25.50	11.60	3.00	1.33	1.27	1.33	
27	1.87	56.00	52.00	41.70	9.80	11.00	20.50	10.70	3.00	1.33	1.27	1.33	
28	1.87	46.60	28.00	55.20	9.80	8.30	18.50	9.50	2.80	1.33	1.27	1.27	
29	1.87	36.80	23.00	77.00	9.50	6.20	16.00	9.20	3.00	1.33		1.27	
30	1.80	31.00	17.20	55.20	8.90	5.20	12.80	9.20	2.80	1.40		1.27	
31		25.00		39.60	8.90		12.80		2.80	1.40		1.27	
TOTAL	52.70	541.81	558.90	572.50	416.80	969.00	1576.30	478.50	121.40	45.01	36.05	40.04	5409.00 CMSDAY
MEAN	1.76	17.48	18.63	18.47	13.45	32.30	50.85	15.95	3.92	1.45	1.29	1.29	14.82 CMS
MAX	2.00	74.00	59.20	77.00	44.50	123.80	162.60	40.30	8.90	2.20	1.40	1.40	162.60 CMS
MIN	1.47	1.27	6.40	5.20	8.30	5.20	7.20	9.20	1.67	1.33	1.27	1.27	1.27 CMS
RUNOFF	4.553	46.812	48.289	49.464	36.011	83.721	136.192	41.342	10.489	3.889	3.115	3.459	467.338 MCM

MOMENTARY PEAK 196.80 CMS, AT 2.73 M (A.D), AT 6.00 HOURS, ON OCT 5, 1980
RUNOFF YIELD 7.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 99.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

KHLONG MAE RAKA AT BAN KHLONG PRADU, TAK (P.32)

LOCATION — LAT. 16°-55'-27" N., LONG. 99°-18'-09" E., ON RIGHT BANK AT BAN KHLONG PRADU, AMPHOE MUANG, TAK.

DRAINAGE AREA — 342 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +3.516 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1971 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE AND SOME SCOURING NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +3.10 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

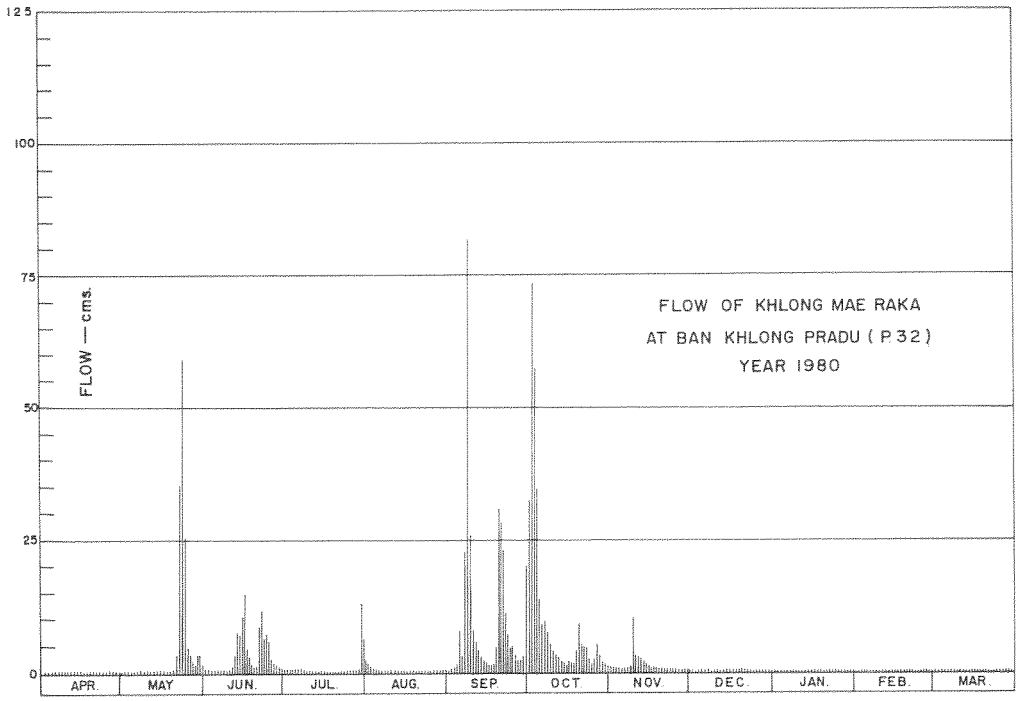
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-MAY 31, 1980 AND DEC.23, 1980-MAR.31, 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.17	-0.18	0.17	0.19	0.33	0.09	2.03	0.20	0.03	-0.17	-0.17	-0.18	
2	-0.17	-0.18	0.14	0.14	0.28	0.16	3.04	0.17	0.02	-0.17	-0.17	-0.18	
3	-0.17	-0.18	0.12	0.10	0.21	0.13	3.21	0.15	0.02	-0.17	-0.17	-0.18	
4	-0.17	-0.18	0.11	0.07	0.16	0.22	2.28	0.14	0.00	-0.17	-0.17	-0.18	
5	-0.17	-0.18	0.11	0.06	0.11	0.89	1.22	0.11	0.00	-0.17	-0.17	-0.18	
6	-0.17	-0.18	0.13	0.11	0.08	0.46	0.92	0.08	0.00	-0.17	-0.17	-0.18	
7	-0.17	-0.18	0.13	0.11	0.07	1.65	0.99	0.08	0.02	-0.17	-0.17	-0.18	
8	-0.17	-0.18	0.10	0.09	0.06	3.54	0.84	0.18	0.02	-0.17	-0.17	-0.18	
9	-0.17	-0.18	0.07	0.06	0.04	2.03	0.69	1.00	0.02	-0.17	-0.17	-0.18	
10	-0.17	-0.18	0.06	0.03	0.03	0.91	0.55	0.47	0.02	-0.17	-0.17	-0.18	
11	-0.17	-0.18	0.24	0.03	0.02	0.67	0.45	0.49	0.02	-0.17	-0.17	-0.18	
12	-0.17	-0.18	0.50	0.01	0.00	0.53	0.41	0.41	0.00	-0.17	-0.17	-0.18	
13	-0.17	-0.18	0.86	-0.08	0.00	0.42	0.38	0.32	0.00	-0.17	-0.17	-0.18	
14	-0.17	-0.18	0.79	-0.09	-0.02	0.33	0.33	0.25	0.00	-0.17	-0.17	-0.18	
15	-0.17	-0.18	1.04	-0.08	-0.03	0.28	0.29	0.21	0.00	-0.17	-0.17	-0.18	
16	-0.17	-0.18	1.25	-0.08	-0.03	0.24	0.35	0.18	0.00	-0.17	-0.17	-0.18	
17	-0.17	-0.18	0.55	-0.08	-0.04	0.24	0.37	0.16	0.00	-0.17	-0.17	-0.18	
18	-0.17	-0.18	0.35	-0.06	-0.03	0.25	0.31	0.14	0.00	-0.17	-0.17	-0.18	
19	-0.17	-0.18	0.25	-0.05	-0.03	0.78	0.57	0.12	0.00	-0.17	-0.17	-0.18	
20	-0.17	-0.18	0.23	-0.05	0.03	1.97	0.95	0.12	0.00	-0.17	-0.17	-0.18	
21	-0.17	0.46	0.92	-0.04	0.04	1.84	0.65	0.10	-0.01	-0.17	-0.17	-0.18	
22	-0.17	2.03	1.09	0.00	0.01	1.03	0.62	0.10	-0.02	-0.17	-0.17	-0.18	
23	-0.17	2.98	0.74	-0.03	-0.01	0.74	0.50	0.09	-0.11	-0.17	-0.17	-0.18	
24	-0.17	2.04	0.81	-0.03	-0.01	0.58	0.38	0.07	-0.11	-0.17	-0.17	-0.18	
25	-0.17	0.65	0.68	-0.02	-0.01	0.61	0.30	0.07	-0.11	-0.17	-0.17	-0.18	
26	-0.17	0.51	0.42	0.03	-0.03	0.49	0.52	0.07	-0.11	-0.17	-0.17	-0.18	
27	-0.17	0.36	0.30	0.61	-0.03	0.39	0.69	0.06	-0.12	-0.17	-0.17	-0.18	
28	-0.17	0.26	0.23	0.44	-0.04	0.37	0.42	0.05	-0.12	-0.17	-0.17	-0.18	
29	-0.17	0.48	0.19	0.39	-0.05	0.48	0.31	0.04	-0.12	-0.17		-0.18	
30	-0.17	0.47	0.15	1.16	-0.05	1.56	0.26	0.04	-0.12	-0.17		-0.18	
31		0.24		0.65	-0.05		0.22		-0.12	-0.17		-0.18	
MEAN	-0.17	0.22	0.42	0.12	0.03	0.80	0.81	0.19	-0.03	-0.17	-0.17	-0.18	
MAX	-0.17	2.98	1.25	1.16	0.33	3.54	3.21	1.00	0.03	-0.17	-0.17	-0.18	3.54
MIN	-0.17	-0.18	0.06	-0.09	-0.05	0.09	0.22	0.04	-0.12	-0.17	-0.17	-0.18	-0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.74 M (A.D), AT 10.00 HOURS, ON SEP 8, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.18 M (A.D)
LEFT BANK ELEVATION 3.10 M (A.D)
RIGHT BANK ELEVATION 3.31 M (A.D), DRAINAGE AREA 342 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.88	0.96	1.80	0.57	32.40	1.00	0.39	0.00	0.00	0.00	
2	0.00	0.00	0.76	0.76	1.40	0.84	66.60	0.88	0.36	0.00	0.00	0.00	
3	0.00	0.00	0.68	0.60	1.05	0.72	73.40	0.80	0.36	0.00	0.00	0.00	
4	0.00	0.00	0.64	0.51	0.84	1.10	39.90	0.76	0.30	0.00	0.00	0.00	
5	0.00	0.00	0.64	0.48	0.64	8.35	13.98	0.64	0.30	0.00	0.00	0.00	
6	0.00	0.00	0.72	0.64	0.54	3.10	8.80	0.54	0.30	0.00	0.00	0.00	
7	0.00	0.00	0.72	0.64	0.51	22.75	9.85	0.54	0.36	0.00	0.00	0.00	
8	0.00	0.00	0.60	0.57	0.48	86.60	7.60	0.92	0.36	0.00	0.00	0.00	
9	0.00	0.00	0.51	0.48	0.42	32.40	5.49	10.00	0.36	0.00	0.00	0.00	
10	0.00	0.00	0.48	0.39	0.39	8.65	4.00	3.20	0.36	0.00	0.00	0.00	
11	0.00	0.00	1.20	0.39	0.36	5.27	3.00	3.40	0.36	0.00	0.00	0.00	
12	0.00	0.00	3.50	0.33	0.30	3.80	2.60	2.60	0.30	0.00	0.00	0.00	
13	0.00	0.00	7.90	0.06	0.30	2.70	2.30	1.70	0.30	0.00	0.00	0.00	
14	0.00	0.00	6.86	0.03	0.24	1.80	1.80	1.25	0.30	0.00	0.00	0.00	
15	0.00	0.00	10.72	0.06	0.21	1.40	1.45	1.05	0.30	0.00	0.00	0.00	
16	0.00	0.00	14.55	0.06	0.21	1.20	2.00	0.92	0.30	0.00	0.00	0.00	
17	0.00	0.00	4.00	0.06	0.18	1.20	2.20	0.84	0.30	0.00	0.00	0.00	
18	0.00	0.00	2.00	0.12	0.21	1.25	1.60	0.76	0.30	0.00	0.00	0.00	
19	0.00	0.00	1.25	0.15	0.21	6.72	4.20	0.68	0.30	0.00	0.00	0.00	
20	0.00	0.00	1.15	0.15	0.39	30.75	9.25	0.68	0.30	0.00	0.00	0.00	
21	0.00	3.10	8.80	0.18	0.42	27.50	5.05	0.60	0.27	0.00	0.00	0.00	
22	0.00	32.40	11.62	0.30	0.33	10.54	4.72	0.60	0.24	0.00	0.00	0.00	
23	0.00	64.20	6.16	0.21	0.27	6.16	3.50	0.57	0.00	0.00	0.00	0.00	
24	0.00	32.70	7.15	0.21	0.27	4.30	2.30	0.51	0.00	0.00	0.00	0.00	
25	0.00	5.05	5.38	0.24	0.27	4.61	1.50	0.51	0.00	0.00	0.00	0.00	
26	0.00	3.60	2.70	0.39	0.21	3.40	3.70	0.51	0.00	0.00	0.00	0.00	
27	0.00	2.10	1.50	4.61	0.21	2.40	5.49	0.48	0.00	0.00	0.00	0.00	
28	0.00	1.30	1.15	2.90	0.18	2.20	2.70	0.45	0.00	0.00	0.00	0.00	
29	0.00	3.30	0.96	2.40	0.15	3.30	1.60	0.42	0.00	0.00		0.00	
30	0.00	3.20	0.80	12.88	0.15	20.70	1.30	0.42	0.00	0.00		0.00	
31		1.20		5.05	0.15		1.10		0.00	0.00		0.00	
TOTAL	0.00	152.15	105.98	36.81	13.29	306.28	325.38	38.23	7.02	0.00	0.00	0.00	985.14 CMSDAY
MEAN	0.00	4.91	3.53	1.19	0.43	10.21	10.50	1.27	0.23	0.00	0.00	0.00	2.70 CMS
MAX	0.00	64.20	14.55	12.88	1.80	86.60	73.40	10.00	0.39	0.00	0.00	0.00	86.60 CMS
MIN	0.00	0.00	0.48	0.03	0.15	0.57	1.10	0.42	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	13.146	9.157	3.180	1.148	26.463	28.113	3.303	0.607	0.000	0.000	0.000	85.116 MCM

MOMENTARY PEAK 94.60 CMS, AT 3.74 M (A.D), AT 10.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 7.89 LITERS SECOND/SQUARE KM, MOMENTARY PEAK YIELD 276.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

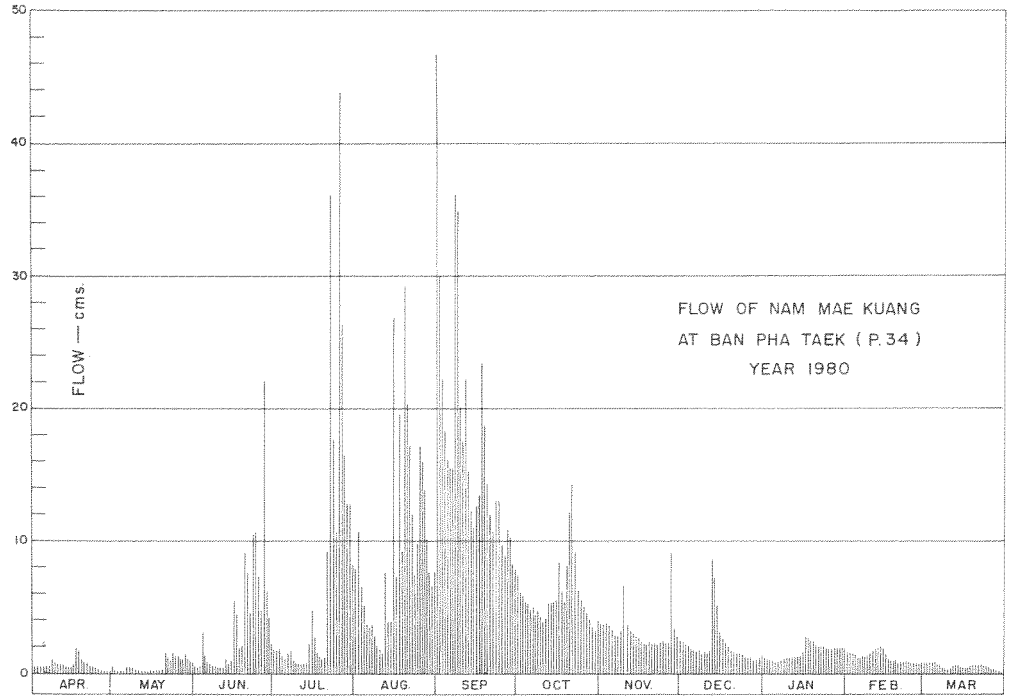
NAM MAE KUANG AT BAN PHA TAEK, CHIANG MAI (P.34)

LOCATION	LAT. 18°-56'-22" N., LONG. 99°-07'-25" E., ON LEFT BANK AT BAN PHA TAEK, AMPHOE DOI SAKET, CHIANG MAI.
DRAINAGE AREA	566 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+339.350 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+344.446 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1974 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT BUT PERIODIC CURVES ARE USED FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 194 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	339.98	339.98	339.99	340.13	340.49	340.85	340.34	340.22	340.17	340.11	340.13	340.06	
2	339.98	339.87	339.98	340.13	340.49	340.75	340.33	340.24	340.16	340.10	340.13	340.06	
3	339.98	339.86	340.01	340.14	340.34	340.67	340.32	340.24	340.15	340.10	340.13	340.06	
4	339.98	339.90	340.20	340.11	340.29	340.63	340.31	340.21	340.14	340.10	340.13	340.08	
5	339.98	339.93	340.10	340.08	340.23	340.61	340.28	340.20	340.14	340.09	340.11	340.06	
6	339.98	339.98	340.05	340.10	340.22	340.61	340.29	340.19	340.13	340.08	340.11	340.07	
7	339.98	339.98	340.03	340.13	340.23	340.97	340.26	340.18	340.13	340.08	340.12	340.07	
8	340.09	339.96	340.00	340.10	340.19	340.95	340.28	340.20	340.13	340.10	340.12	340.01	
9	340.04	339.94	339.98	340.06	340.15	340.67	340.26	340.35	340.12	340.11	340.13	339.96	
10	340.03	339.93	339.98	340.05	340.13	340.65	340.24	340.26	340.13	340.11	340.13	339.96	
11	340.02	339.92	339.98	340.05	340.12	340.74	340.25	340.22	340.12	340.11	340.14	339.96	
12	340.01	339.91	339.97	340.04	340.38	340.59	340.31	340.21	340.13	340.11	340.14	340.03	
13	340.00	339.90	340.08	340.04	340.23	340.53	340.31	340.20	340.41	340.12	340.15	340.02	
14	340.00	339.89	340.03	340.15	340.25	340.49	340.31	340.19	340.30	340.12	340.15	340.02	
15	339.99	339.88	340.16	340.29	340.82	340.56	340.31	340.18	340.21	340.12	340.14	340.01	
16	339.98	339.87	340.31	340.20	340.37	340.56	340.41	340.17	340.18	340.14	340.12	339.99	
17	340.14	339.89	340.26	340.13	340.69	340.76	340.34	340.16	340.16	340.19	340.10	339.97	
18	340.13	339.91	340.14	340.12	340.44	340.65	340.31	340.16	340.15	340.18	340.10	340.02	
19	340.07	339.93	340.15	340.09	340.86	340.58	340.38	340.17	340.14	340.17	340.10	340.03	
20	340.05	339.99	340.43	340.11	340.70	340.52	340.58	340.16	340.13	340.17	340.09	340.03	
21	340.04	340.12	340.38	340.46	340.64	340.47	340.58	340.16	340.13	340.15	340.09	340.03	
22	340.02	340.08	340.27	340.97	340.48	340.55	340.44	340.16	340.12	340.15	340.10	340.02	
23	340.01	340.08	340.48	340.65	340.38	340.55	340.36	340.16	340.12	340.15	340.08	340.03	
24	339.99	340.12	340.49	340.49	340.45	340.50	340.32	340.17	340.12	340.15	340.08	340.01	
25	339.97	340.09	340.28	340.73	340.64	340.45	340.30	340.16	340.11	340.14	340.06	340.01	
26	339.95	340.11	340.28	341.08	340.61	340.42	340.28	340.16	340.11	340.14	340.06	340.01	
27	339.93	340.07	340.75	340.68	340.51	340.49	340.26	340.43	340.11	340.15	340.06	339.97	
28	339.92	340.12	340.35	340.54	340.41	340.46	340.23	340.24	340.10	340.15	340.06	339.96	
29	339.91	340.08	340.23	340.54	340.34	340.39	340.22	340.20	340.10	340.15		339.94	
30	339.89	340.08	340.16	340.51	340.38	340.39	340.21	340.18	340.10	340.15		339.93	
31		340.07		340.38	341.12		340.24		340.11	340.14		339.92	
MEAN	340.00	339.98	340.18	340.30	340.44	340.60	340.32	340.20	340.15	340.13	340.11	340.01	
MAX	340.14	340.12	340.75	341.08	341.12	340.97	340.58	340.43	340.41	340.19	340.15	340.08	341.12
MIN	339.89	339.86	339.97	340.04	340.12	340.39	340.21	340.16	340.10	340.08	340.06	339.92	339.85

ANNUAL MAX MOMENTARY GAGE HEIGHT 341.47 M (MSL), AT 19.00 HOURS, ON AUG 31, 1980
ZERO GAGE AT BOTTOM ELEVATION 339.35 M (MSL), RIVER BED 339.13 M (MSL)
LEFT BANK ELEVATION 343.07 M (MSL)
RIGHT BANK ELEVATION 344.23 M (MSL), DRAINAGE AREA 566 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.40	0.45	1.60	10.70	28.50	6.20	3.40	2.40	1.20	1.60	0.80	
2	0.40	0.00	0.40	1.60	10.70	22.75	5.90	3.80	2.20	1.00	1.60	0.80	
3	0.40	0.00	0.55	1.80	6.20	18.50	5.60	3.80	2.00	1.00	1.60	0.80	
4	0.40	0.00	3.00	1.20	4.80	16.50	5.30	3.20	1.80	1.00	1.60	0.90	
5	0.40	0.15	1.00	0.90	3.60	15.50	4.60	3.00	1.80	0.95	1.20	0.80	
6	0.40	0.40	0.75	1.00	3.40	15.50	4.80	2.80	1.80	0.90	1.20	0.85	
7	0.40	0.40	0.65	1.80	3.60	36.05	4.20	2.60	1.60	0.90	1.40	0.85	
8	0.95	0.30	0.50	1.00	2.80	34.75	4.60	3.00	1.60	1.00	1.40	0.55	
9	0.70	0.20	0.40	0.80	2.00	18.50	4.20	6.50	1.40	1.20	1.60	0.30	
10	0.65	0.15	0.40	0.75	1.60	17.50	3.80	4.20	1.60	1.20	1.60	0.30	
11	0.60	0.10	0.40	0.75	1.40	22.20	4.00	3.40	1.40	1.20	1.80	0.30	
12	0.55	0.05	0.35	0.70	7.40	14.60	5.30	3.20	1.60	1.20	1.80	0.65	
13	0.50	0.00	0.90	0.70	3.60	12.20	5.30	3.00	8.30	1.40	2.00	0.60	
14	0.50	0.00	0.65	2.00	4.00	10.70	5.30	2.80	5.00	1.40	2.00	0.60	
15	0.45	0.00	2.20	4.80	26.70	13.40	5.30	2.60	3.20	1.40	1.80	0.55	
16	0.40	0.00	5.30	3.00	7.10	13.40	8.30	2.40	2.60	1.80	1.40	0.45	
17	1.80	0.00	4.20	1.60	19.50	23.30	6.20	2.20	2.20	2.80	1.00	0.35	
18	1.60	0.05	1.80	1.40	9.20	17.50	5.30	2.20	2.00	2.60	1.00	0.60	
19	0.85	0.15	2.00	0.95	29.10	14.20	7.40	2.40	1.80	2.40	1.00	0.65	
20	0.75	0.45	8.90	1.20	20.00	11.80	14.20	2.20	1.60	2.40	0.95	0.65	
21	0.70	1.40	7.40	9.80	17.00	10.10	14.20	2.20	1.60	2.00	0.95	0.65	
22	0.60	0.90	4.40	36.05	10.40	13.00	9.20	2.20	1.40	2.00	1.00	0.60	
23	0.55	0.90	10.40	17.50	7.40	13.00	6.80	2.20	1.40	2.00	0.90	0.65	
24	0.45	1.40	10.70	10.70	9.50	11.00	5.60	2.40	1.40	2.00	0.90	0.55	
25	0.35	0.95	4.60	21.65	17.00	9.50	5.00	2.20	1.20	1.80	0.80	0.55	
26	0.25	1.20	4.60	43.50	15.50	8.60	4.60	2.20	1.20	1.80	0.80	0.55	
27	0.15	0.85	22.75	19.00	11.40	10.70	4.20	8.90	1.20	2.00	0.80	0.35	
28	0.10	1.40	6.50	12.60	8.30	9.80	3.60	3.80	1.00	2.00	0.80	0.30	
29	0.05	0.90	3.60	12.60	5.20	7.70	3.40	3.00	1.00	2.00		0.20	
30	0.00	0.90	2.20	11.40	7.40	7.70	3.20	2.60	1.00	2.00		0.15	
31		0.85		7.40	46.60		3.80		1.20	1.80		0.10	
TOTAL	16.30	14.45	111.95	231.65	334.10	478.45	179.40	94.40	61.30	50.35	36.50	17.00	1625.95 CMSDAY
MEAN	0.54	0.47	3.73	7.47	10.78	15.95	5.79	3.15	1.98	1.62	1.30	0.55	4.45 CMS
MAX	1.80	1.40	22.75	43.60	46.60	36.05	14.20	8.90	8.30	2.80	2.00	0.90	46.60 CMS
MIN	0.00	0.00	0.35	0.70	1.40	7.70	3.20	2.20	1.00	0.90	0.80	0.10	0.00 CMS
RUNOFF	1.408	1.248	9.672	20.015	28.866	41.338	15.500	8.156	5.296	4.350	3.154	1.469	140.473 MCM

MOMENTARY PEAK 77.15 CMS, AT 341.47 M (MSL), AT 19.00 HOURS, ON AUG 31, 1980
RUNOFF YIELD 7.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 136.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

KHLONG KHLUNG AT BAN PANG WAI, KAMPHAENG PHET (P.35)

LOCATION — LAT. 16°-04'-22" N., LONG. 99°-24'-18" E., ON RIGHT BANK AT BAN PANG WAI ABOUT 1.5 KILOMETERS FROM KHAO SONG PHI NONG, AMPHOE KHLONG KHLUNG, KAMPHAENG PHET.

DRAINAGE AREA — 730 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — INFRONT OF P.35 STATION OFFICE.

ELEVATION — B.M.1=+4.502 M. (A.D.); B.M.2=4.472 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1974 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 222 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

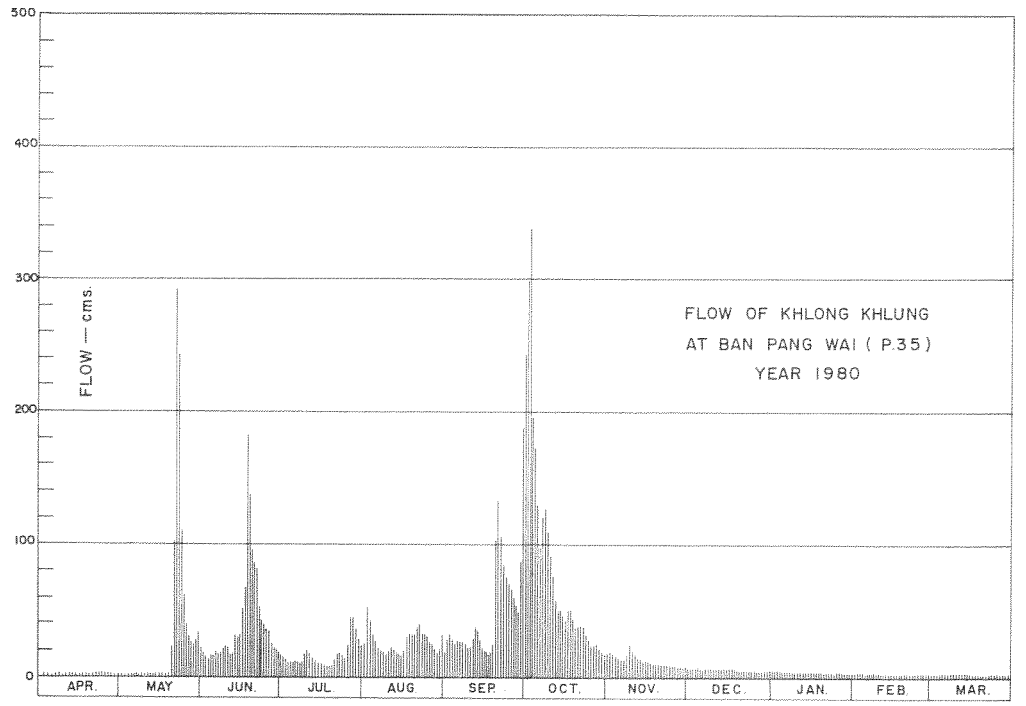
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.16	1.19	1.06	1.36	1.07	4.06	1.19	0.73	0.58	0.45	0.41	
2	0.15	0.14	1.07	1.00	1.97	1.57	4.86	1.15	0.73	0.57	0.43	0.41	
3	0.25	0.12	1.02	0.94	1.80	1.45	4.46	1.09	0.73	0.57	0.42	0.40	
4	0.20	0.11	1.12	0.88	1.52	1.40	3.74	1.06	0.71	0.57	0.44	0.40	
5	0.19	0.11	1.08	0.88	1.43	1.38	3.11	1.04	0.71	0.56	0.41	0.39	
6	0.18	0.10	1.19	0.98	1.32	1.45	2.65	1.01	0.69	0.56	0.42	0.45	
7	0.17	0.10	1.21	0.93	1.20	1.42	2.98	0.98	0.69	0.55	0.44	0.45	
8	0.16	0.10	1.14	0.85	1.16	1.35	3.02	1.20	0.69	0.54	0.43	0.47	
9	0.15	0.10	1.29	1.07	1.14	1.30	2.86	1.36	0.69	0.53	0.44	0.46	
10	0.13	0.11	1.32	1.24	1.13	1.30	2.56	1.17	0.68	0.53	0.43	0.43	
11	0.12	0.11	1.23	1.21	1.30	1.47	2.26	1.08	0.68	0.52	0.41	0.45	
12	0.11	0.11	1.09	1.06	1.25	1.64	2.08	1.01	0.67	0.52	0.42	0.46	
13	0.10	0.13	1.52	0.94	1.16	1.59	1.94	0.97	0.67	0.53	0.41	0.44	
14	0.10	0.15	1.51	0.89	1.07	1.42	1.93	0.95	0.66	0.52	0.40	0.42	
15	0.10	0.14	1.52	0.81	1.07	1.25	1.78	0.93	0.66	0.50	0.39	0.41	
16	0.11	0.13	1.77	0.82	1.22	1.14	1.74	0.90	0.66	0.50	0.37	0.41	
17	0.37	0.13	2.21	0.84	1.50	1.09	1.94	0.88	0.66	0.49	0.37	0.39	
18	0.33	0.12	3.63	0.82	1.57	1.30	1.86	0.86	0.65	0.49	0.41	0.38	
19	0.25	0.12	2.88	0.77	1.56	2.08	1.67	0.84	0.64	0.49	0.39	0.37	
20	0.22	0.23	2.51	0.78	1.58	3.09	1.65	0.84	0.63	0.49	0.39	0.37	
21	0.22	2.40	2.40	1.03	1.69	2.91	1.69	0.84	0.62	0.48	0.37	0.36	
22	0.19	4.56	2.12	1.17	1.72	2.64	1.68	0.83	0.62	0.48	0.37	0.34	
23	0.18	4.15	1.87	1.18	1.55	2.41	1.54	0.82	0.61	0.47	0.40	0.35	
24	0.16	2.03	1.66	1.06	1.56	2.31	1.47	0.80	0.61	0.46	0.42	0.35	
25	0.15	2.11	1.64	1.01	1.52	2.24	1.39	0.78	0.61	0.46	0.41	0.35	
26	0.14	1.67	1.59	1.32	1.42	2.15	1.34	0.78	0.59	0.46	0.39	0.36	
27	0.13	1.46	1.41	1.80	1.30	1.98	1.39	0.77	0.59	0.46	0.37	0.35	
28	0.13	1.35	1.29	1.74	1.20	1.87	1.32	0.76	0.59	0.46	0.39	0.34	
29	0.14	1.37	1.18	1.60	1.09	2.62	1.22	0.75	0.59	0.45		0.34	
30	0.18	1.62	1.10	1.47	1.54	3.54	1.15	0.74	0.59	0.46		0.33	
31		1.44		1.31	1.38		1.16		0.59	0.44		0.33	
MEAN	0.17	0.89	1.59	1.08	1.40	1.81	2.21	0.95	0.65	0.51	0.41	0.39	
MAX	0.37	4.56	3.63	1.80	1.97	3.54	4.86	1.36	0.73	0.58	0.45	0.47	4.86
MIN	0.10	0.10	1.02	0.77	1.07	1.07	1.15	0.74	0.59	0.44	0.37	0.33	0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.44 M (A.D.), AT 12.00 HOURS, ON MAY 22, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED M (A.D.)

LEFT BANK ELEVATION M (A.D.)

RIGHT BANK ELEVATION M (A.D.), DRAINAGE AREA 730 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.80	18.70	14.80	23.80	15.10	227.20	18.70	7.60	5.20	3.50	3.10	
2	0.75	0.70	15.10	13.00	52.50	32.50	337.60	17.50	7.60	5.05	3.30	3.10	
3	1.50	0.60	13.60	11.80	44.00	27.00	276.40	15.70	7.60	5.05	3.20	3.00	
4	1.00	0.55	16.60	10.60	30.00	25.00	192.00	14.80	7.20	5.05	3.40	3.00	
5	0.95	0.55	15.40	10.60	26.20	24.40	132.80	14.20	7.20	4.90	3.10	2.90	
6	0.90	0.50	18.70	12.60	22.60	27.00	96.50	13.30	6.85	4.90	3.20	3.50	
7	0.85	0.50	19.30	11.60	19.00	25.80	122.40	12.60	6.85	4.75	3.40	3.50	
8	0.80	0.50	17.20	10.00	17.80	23.50	125.60	19.00	6.85	4.60	3.30	3.70	
9	0.75	0.50	21.70	15.10	17.20	22.00	112.80	23.80	6.85	4.45	3.40	3.60	
10	0.65	0.55	22.60	20.20	16.90	22.00	90.20	18.10	6.70	4.45	3.30	3.30	
11	0.60	0.55	19.90	19.30	22.00	27.80	69.60	15.40	6.70	4.30	3.10	3.50	
12	0.55	0.55	15.70	14.80	20.50	36.00	58.80	13.30	6.55	4.30	3.20	3.60	
13	0.50	0.65	30.00	11.80	17.80	33.50	51.00	12.40	6.55	4.45	3.10	3.40	
14	0.50	0.75	29.50	10.80	15.10	25.80	50.50	12.00	6.40	4.30	3.00	3.20	
15	0.50	0.70	30.00	9.20	15.10	20.50	43.00	11.60	6.40	4.00	2.90	3.10	
16	0.55	0.65	42.50	9.40	19.60	17.20	41.00	11.00	6.40	4.00	2.70	3.10	
17	2.70	0.65	66.60	9.80	29.00	15.70	51.00	10.60	6.40	3.90	2.70	2.90	
18	2.30	0.60	181.00	9.40	32.50	22.00	47.00	10.20	6.25	3.90	3.10	2.80	
19	1.50	0.60	114.40	8.40	32.00	58.80	37.50	9.80	6.10	3.90	2.90	2.70	
20	1.20	1.30	86.70	8.60	31.50	131.20	36.50	9.80	5.95	3.90	2.90	2.70	
21	1.20	79.00	79.00	13.90	38.50	116.80	38.50	9.80	5.80	3.80	2.70	2.60	
22	0.95	290.40	61.20	18.10	40.00	95.80	38.00	9.60	5.80	3.80	2.70	2.40	
23	0.90	238.00	47.50	18.40	31.50	79.70	31.00	9.40	5.65	3.70	3.00	2.50	
24	0.80	110.40	37.00	14.80	32.00	72.70	27.80	9.00	5.65	3.60	3.20	2.50	
25	0.75	60.60	36.00	13.30	30.00	68.40	24.70	8.60	5.65	3.60	3.10	2.50	
26	0.70	37.50	33.50	22.60	25.80	63.00	23.20	8.60	5.35	3.60	2.90	2.60	
27	0.65	27.40	25.40	44.00	22.00	53.00	24.70	8.40	5.35	3.60	2.70	2.50	
28	0.65	23.50	21.70	41.00	19.00	47.50	22.60	8.20	5.35	3.60	2.90	2.40	
29	0.70	24.10	18.40	34.00	15.70	94.40	19.60	8.00	5.35	3.50		2.40	
30	0.90	35.00	16.00	27.80	31.00	172.00	17.50	7.80	5.35	3.60		2.30	
31		26.60		22.30	24.40		17.80		5.35	3.40		2.30	
TOTAL	27.90	965.25	1170.90	512.00	815.00	1496.10	2484.80	371.20	195.65	129.15	85.90	90.70	8344.54 CMSDAY
MEAN	0.93	31.14	39.03	16.52	26.29	49.87	80.15	12.37	6.31	4.17	3.07	2.93	22.86 CMS
MAX	2.70	290.40	181.00	44.00	52.50	172.00	337.60	23.80	7.60	5.20	3.50	3.70	337.60 CMS
MIN	0.50	0.50	13.60	8.40	15.10	15.10	17.50	7.80	5.35	3.40	2.70	2.30	0.50 CMS
RUNOFF	2.411	83.398	101.166	44.237	70.416	129.263	214.686	32.072	16.904	11.159	7.422	7.836	720.968 MCM

MOMENTARY PEAK 444.00 CMS, AT 5.44 M (A.D), AT 12.00 HOURS, ON MAY 22, 1980

RUNOFF YIELD 31.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 608.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE LAI AT BAN HUAI KAEO, CHIANG MAI (P.36)

LOCATION — LAT. 18°-51'-26" N., LONG. 99°-17'-12" E., ON RIGHT BANK AT BAN HUAI KAEO, TAMBON HUAI KAEO, AMPHOE SAN KAMPHAENG, CHIANG MAI.

DRAINAGE AREA — 35 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AI — +558.80 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +565.610 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 87 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

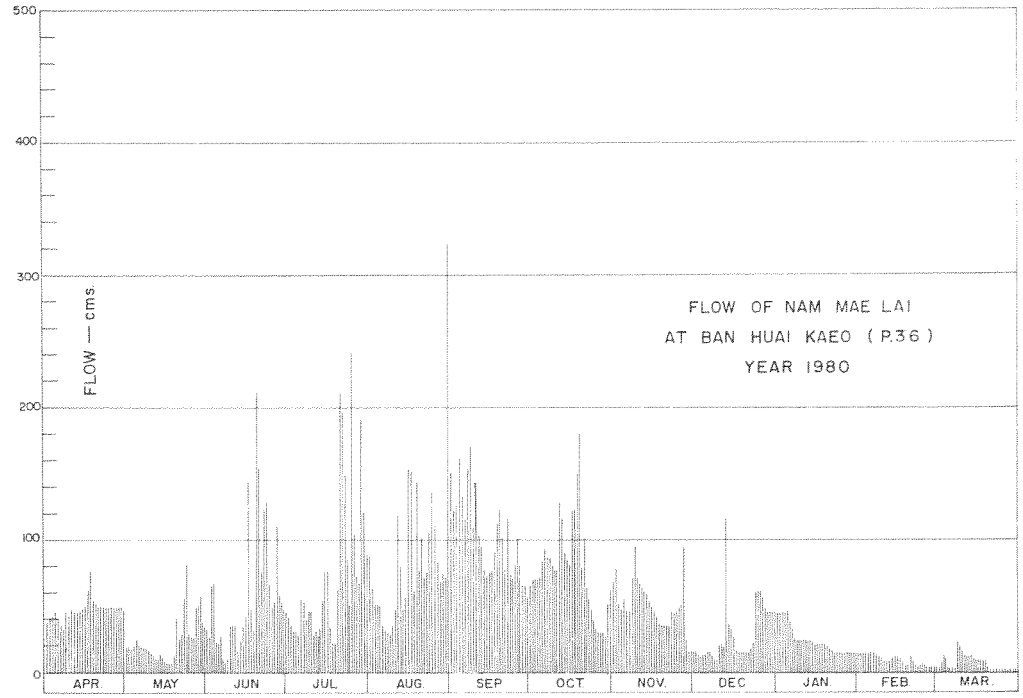
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	559.24	559.26	559.28	559.33	559.41	559.50	559.38	559.38	559.25	559.33	559.25	559.21	
2	559.25	559.26	559.37	559.31	559.37	559.46	559.38	559.40	559.25	559.33	559.25	559.24	
3	559.25	559.25	559.37	559.30	559.35	559.47	559.38	559.34	559.24	559.33	559.25	559.27	
4	559.26	559.26	559.27	559.30	559.32	559.51	559.38	559.33	559.24	559.33	559.25	559.24	
5	559.25	559.28	559.27	559.28	559.32	559.48	559.40	559.35	559.24	559.33	559.25	559.21	
6	559.24	559.26	559.29	559.35	559.31	559.45	559.42	559.33	559.25	559.32	559.25	559.21	
7	559.40	559.26	559.23	559.30	559.30	559.48	559.41	559.33	559.25	559.30	559.25	559.21	
8	559.26	559.26	559.22	559.31	559.30	559.52	559.41	559.39	559.24	559.28	559.24	559.21	
9	559.25	559.25	559.31	559.33	559.29	559.44	559.40	559.42	559.23	559.28	559.24	559.28	
10	559.27	559.25	559.31	559.33	559.32	559.49	559.39	559.38	559.26	559.28	559.23	559.25	
11	559.26	559.24	559.31	559.29	559.33	559.44	559.42	559.37	559.27	559.28	559.23	559.24	
12	559.26	559.23	559.24	559.30	559.45	559.42	559.47	559.36	559.26	559.28	559.23	559.24	
13	559.26	559.23	559.27	559.29	559.32	559.40	559.43	559.36	559.45	559.28	559.23	559.24	
14	559.27	559.24	559.29	559.35	559.34	559.38	559.41	559.35	559.31	559.28	559.24	559.24	
15	559.27	559.23	559.32	559.39	559.36	559.39	559.40	559.34	559.30	559.27	559.24	559.23	
16	559.29	559.22	559.49	559.39	559.50	559.39	559.46	559.33	559.27	559.27	559.24	559.23	
17	559.32	559.22	559.34	559.30	559.39	559.42	559.44	559.32	559.25	559.27	559.23	559.23	
18	559.28	559.22	559.30	559.28	559.36	559.43	559.49	559.31	559.25	559.27	559.22	559.23	
19	559.28	559.24	559.30	559.28	559.49	559.46	559.53	559.31	559.25	559.27	559.21	559.23	
20	559.27	559.32	559.56	559.35	559.40	559.44	559.40	559.31	559.25	559.26	559.24	559.18	
21	559.27	559.28	559.39	559.56	559.43	559.39	559.43	559.31	559.25	559.26	559.23	559.18	
22	559.27	559.30	559.46	559.54	559.36	559.43	559.36	559.31	559.25	559.25	559.21	559.21	
23	559.27	559.40	559.47	559.45	559.39	559.39	559.34	559.33	559.27	559.25	559.21	559.18	
24	559.27	559.30	559.37	559.39	559.46	559.38	559.32	559.33	559.36	559.25	559.22	559.18	
25	559.27	559.29	559.33	559.34	559.48	559.40	559.31	559.34	559.36	559.25	559.22	559.18	
26	559.27	559.28	559.34	559.59	559.44	559.43	559.30	559.34	559.36	559.25	559.21	559.18	
27	559.27	559.34	559.44	559.39	559.40	559.39	559.30	559.42	559.34	559.25	559.21	559.18	
28	559.27	559.34	559.35	559.37	559.37	559.30	559.28	559.33	559.25	559.21		559.20	
29	559.27	559.35	559.34	559.54	559.39	559.37	559.29	559.25	559.33	559.25		559.19	
30	559.26	559.31	559.33	559.46	559.38	559.35	559.35	559.25	559.33	559.25		559.19	
31		559.30		559.41	559.66		559.37		559.33	559.25		559.18	
MEAN	559.27	559.27	559.34	559.37	559.39	559.43	559.39	559.34	559.28	559.28	559.23	559.21	
MAX	559.40	559.40	559.56	559.59	559.66	559.52	559.53	559.42	559.45	559.33	559.25	559.28	559.66
MIN	559.24	559.22	559.22	559.28	559.29	559.38	559.29	559.25	559.23	559.25	559.21	559.18	559.18

ANNUAL MAX MOMENTARY GAGE HEIGHT — 559.83 M (MSL), AT 11.00 HOURS, ON AUG 31, 1980

ZERO GAGE AT BOTTOM ELEVATION — 558.80 M (MSL), RIVER BED — 559.12 M (MSL)

LEFT BANK ELEVATION — 564.46 M (MSL)

RIGHT BANK ELEVATION — 563.20 M (MSL), DRAINAGE AREA — 35 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.18	0.24	0.45	0.87	1.50	0.70	0.70	0.15	0.45	0.15	0.03	
2	0.40	0.18	0.65	0.35	0.65	1.22	0.70	0.80	0.15	0.45	0.15	0.03	
3	0.40	0.15	0.65	0.30	0.55	1.29	0.70	0.50	0.12	0.45	0.15	0.12	
4	0.44	0.18	0.21	0.30	0.40	1.60	0.70	0.45	0.12	0.45	0.15	0.12	
5	0.40	0.24	0.21	0.24	0.40	1.36	0.80	0.55	0.12	0.45	0.15	0.03	
6	0.36	0.18	0.27	0.55	0.35	1.15	0.94	0.45	0.15	0.40	0.15	0.03	
7	1.30	0.18	0.09	0.30	0.30	1.36	0.87	0.45	0.15	0.30	0.15	0.03	
8	0.44	0.18	0.06	0.35	0.30	1.70	0.87	0.75	0.12	0.24	0.12	0.03	
9	0.40	0.15	0.35	0.45	0.27	1.08	0.80	0.94	0.09	0.24	0.12	0.24	
10	0.48	0.15	0.35	0.45	0.40	1.43	0.75	0.70	0.18	0.24	0.09	0.15	
11	0.44	0.12	0.35	0.27	0.45	1.08	0.94	0.65	0.21	0.24	0.09	0.12	
12	0.44	0.09	0.12	0.30	1.15	0.94	1.29	0.60	0.18	0.24	0.09	0.12	
13	0.44	0.09	0.21	0.27	0.40	0.80	1.01	0.60	1.15	0.24	0.09	0.12	
14	0.46	0.12	0.27	0.55	0.50	0.70	0.87	0.55	0.35	0.24	0.12	0.12	
15	0.48	0.09	0.60	0.75	0.60	0.75	0.80	0.50	0.30	0.21	0.12	0.09	
16	0.56	0.06	1.43	0.75	1.50	0.75	1.22	0.45	0.21	0.21	0.12	0.09	
17	0.74	0.06	0.50	0.30	0.75	0.94	1.08	0.40	0.15	0.21	0.09	0.09	
18	0.52	0.06	0.30	0.24	0.60	1.15	1.43	0.35	0.15	0.21	0.06	0.09	
19	0.52	0.12	0.30	0.24	1.43	1.22	1.80	0.35	0.15	0.21	0.03	0.09	
20	0.48	0.40	2.10	0.55	0.80	1.79	0.80	0.35	0.15	0.18	0.12	0.00	
21	2.48	0.24	0.75	2.10	1.01	0.75	1.01	0.35	0.15	0.18	0.09	0.00	
22	0.43	0.30	1.22	1.90	0.70	1.15	0.60	0.35	0.15	0.15	0.03	0.03	
23	0.43	0.80	1.29	1.15	0.75	0.75	0.50	0.45	0.21	0.15	0.03	0.00	
24	0.48	0.30	0.65	0.75	1.36	0.70	0.40	0.45	0.60	0.15	0.06	0.00	
25	0.48	0.27	0.45	0.50	1.36	0.80	0.35	0.50	0.60	0.15	0.06	0.00	
26	0.48	0.24	0.50	2.40	1.08	1.01	0.30	0.50	0.60	0.15	0.03	0.00	
27	0.43	0.50	1.08	0.75	0.80	0.75	0.30	0.94	0.50	0.15	0.03	0.00	
28	0.43	0.50	0.55	0.65	0.65	0.65	0.30	0.24	0.45	0.15	0.03	0.00	
29	0.42	0.55	0.50	1.90	0.75	0.65	0.27	0.15	0.45	0.15		0.00	
30	0.44	0.35	0.45	1.22	0.70	0.55	0.55	0.15	0.45	0.15		0.00	
31		0.30		0.87	3.22		0.65		0.45	0.15		0.00	
TOTAL	17.84	7.33	16.50	22.15	25.05	30.56	24.30	15.17	8.96	7.54	2.67	1.77	177.14 CMSDAY
MEAN	0.49	0.24	0.55	0.71	0.81	1.03	0.78	0.51	0.29	0.24	0.10	0.06	0.49 CMS
MAX	1.30	0.80	2.10	2.40	3.22	1.70	1.80	0.94	1.15	0.45	0.15	0.24	3.22 CMS
MIN	0.36	0.06	0.06	0.24	0.27	0.55	0.27	0.15	0.09	0.15	0.03	0.00	0.00 CMS
RUNOFF	1.282	0.633	1.426	1.914	2.164	2.666	2.100	1.311	0.774	0.651	0.231	0.153	15.305 MCM

MOMENTARY PEAK 5.81 CMS, AT 559.83 M (MSL), AT 11.00 HOURS, ON AUG 31, 1980

RUNOFF YIELD 13.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 166.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

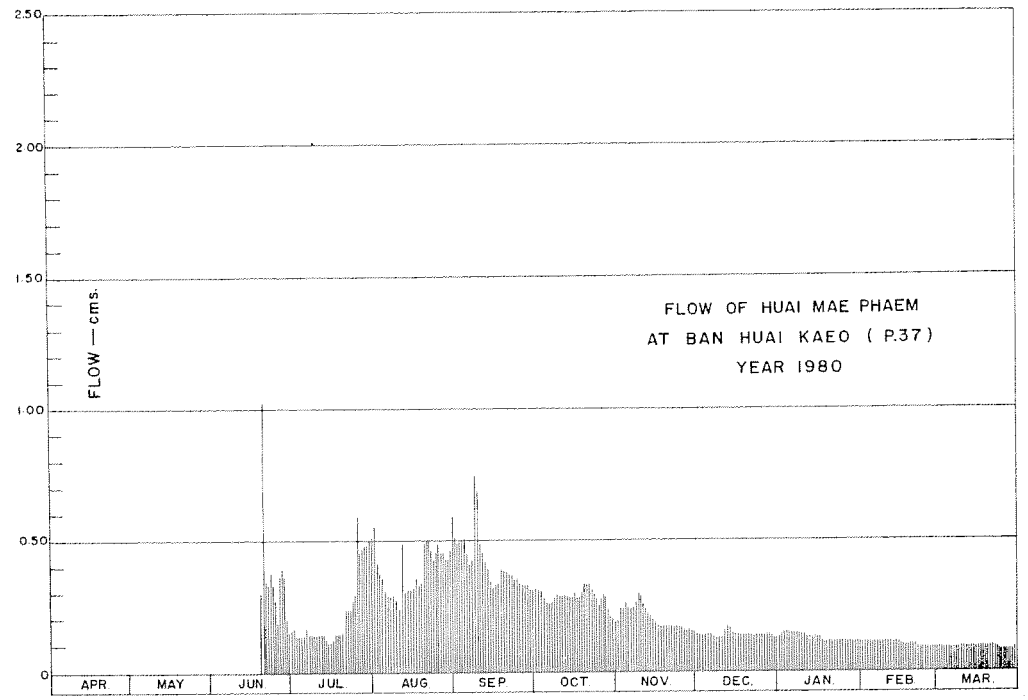
HUAI MAE PHAEM AT BAN HUAI KAEO, CHIANG MAI (P.37)

LOCATION	LAT. 18°-50'-48" N., LONG. 99°-16'-22" E., ON RIGHT BANK ABOUT 2 KILOMETERS FROM NAM MAE LAI, BAN HUAI KAEO, AMPHOE SAN KAMPHAENG, CHIANG MAI.
DRAINAGE AREA	14 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+527.23 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 8 METERS FROM STAFF GAGE.
ELEVATION	+531.056 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	527.65	527.50	527.50	527.74	527.95	527.93	527.84	527.76	527.73	527.72	527.71	527.69	
2	527.64	527.50	527.50	527.74	527.90	527.92	527.84	527.80	527.73	527.73	527.71	527.68	
3	527.64	527.50	527.50	527.72	527.87	527.93	527.84	527.80	527.73	527.73	527.71	527.68	
4	527.64	527.50	527.50	527.72	527.86	527.93	527.82	527.81	527.73	527.73	527.71	527.68	
5	527.64	527.50	527.50	527.72	527.84	527.93	527.81	527.80	527.73	527.73	527.71	527.68	
6	527.64	527.50	527.50	527.74	527.82	527.89	527.81	527.80	527.73	527.73	527.71	527.68	
7	527.67	527.50	527.50	527.73	527.82	527.90	527.81	527.80	527.73	527.73	527.71	527.68	
8	527.66	527.50	527.50	527.73	527.82	528.01	527.82	527.81	527.72	527.73	527.71	527.68	
9	527.64	527.50	527.50	527.73	527.82	527.99	527.83	527.83	527.72	527.73	527.71	527.68	
10	527.64	527.50	527.50	527.73	527.81	527.93	527.83	527.82	527.72	527.73	527.71	527.68	
11	527.45	527.50	527.50	527.73	527.79	527.91	527.83	527.80	527.72	527.72	527.71	527.68	
12	527.45	527.50	527.50	527.73	527.92	527.90	527.83	527.79	527.75	527.72	527.71	527.68	
13	527.45	527.50	527.50	527.73	527.83	527.88	527.82	527.78	527.74	527.72	527.71	527.68	
14	527.45	527.50	527.50	527.71	527.84	527.86	527.82	527.77	527.74	527.72	527.71	527.68	
15	527.45	527.50	527.50	527.71	527.84	527.84	527.82	527.77	527.73	527.72	527.71	527.68	
16	527.45	527.50	527.50	527.71	527.84	527.85	527.83	527.76	527.73	527.72	527.70	527.68	
17	527.45	527.50	527.50	527.73	527.86	527.85	527.82	527.75	527.73	527.71	527.70	527.68	
18	527.45	527.50	527.83	527.73	527.85	527.88	527.83	527.75	527.73	527.71	527.70	527.68	
19	527.45	527.50	527.83	527.73	527.85	527.88	527.85	527.75	527.73	527.71	527.70	527.68	
20	527.45	527.50	528.08	527.73	527.92	527.88	527.85	527.75	527.73	527.71	527.70	527.68	
21	527.45	527.50	527.85	527.79	527.93	527.87	527.85	527.75	527.73	527.71	527.70	527.68	
22	527.45	527.50	527.85	527.79	527.93	527.87	527.84	527.75	527.73	527.71	527.70	527.68	
23	527.45	527.50	527.87	527.79	527.91	527.86	527.83	527.75	527.73	527.71	527.69	527.68	
24	527.45	527.50	527.83	527.82	527.90	527.86	527.82	527.75	527.73	527.71	527.69	527.67	
25	527.45	527.50	527.76	527.83	527.92	527.85	527.80	527.75	527.73	527.71	527.69	527.67	
26	527.45	527.50	527.86	527.96	527.91	527.85	527.83	527.74	527.73	527.71	527.69	527.67	
27	527.45	527.50	527.88	527.91	527.91	527.85	527.83	527.74	527.73	527.71	527.69	527.67	
28	527.45	527.50	527.86	527.92	527.90	527.85	527.81	527.74	527.73	527.71	527.69	527.67	
29	527.45	527.50	527.76	527.92	527.90	527.84	527.78	527.74	527.73	527.71		527.67	
30	527.45	527.50	527.73	527.93	527.91	527.84	527.77	527.74	527.72	527.71		527.68	
31		527.50		527.93	527.96		527.77		527.72	527.71		527.69	
MEAN	527.51	527.50	527.65	527.78	527.87	527.89	527.82	527.77	527.73	527.72	527.70	527.68	
MAX	527.67	527.50	528.08	527.96	527.96	528.01	527.85	527.83	527.75	527.73	527.71	527.69	528.08
MIN	527.45	527.50	527.50	527.71	527.79	527.84	527.77	527.74	527.72	527.71	527.69	527.67	527.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 528.23 M (MSL), AT 6.00 HOURS, ON JUN 20, 1980
ZERO GAGE AT BOTTOM ELEVATION 527.23 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 532.11 M (MSL)
RIGHT BANK ELEVATION 532.11 M (MSL), DRAINAGE AREA 14 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.00	0.00	0.16	0.56	0.50	0.31	0.18	0.14	0.13	0.11	0.09	
2	0.06	0.00	0.00	0.16	0.42	0.48	0.31	0.24	0.14	0.14	0.11	0.09	
3	0.06	0.00	0.00	0.13	0.37	0.50	0.31	0.24	0.14	0.14	0.11	0.09	
4	0.06	0.00	0.00	0.13	0.35	0.50	0.28	0.26	0.14	0.14	0.11	0.09	
5	0.06	0.00	0.00	0.13	0.31	0.50	0.26	0.24	0.14	0.14	0.11	0.09	
6	0.06	0.00	0.00	0.16	0.28	0.40	0.26	0.24	0.14	0.14	0.11	0.09	
7	0.08	0.00	0.00	0.14	0.28	0.42	0.26	0.24	0.14	0.14	0.11	0.09	
8	0.07	0.00	0.00	0.14	0.28	0.74	0.28	0.26	0.13	0.14	0.11	0.09	
9	0.06	0.00	0.00	0.14	0.28	0.67	0.29	0.29	0.13	0.14	0.11	0.09	
10	0.06	0.00	0.00	0.14	0.26	0.50	0.29	0.28	0.13	0.14	0.11	0.09	
11	0.00	0.00	0.00	0.14	0.23	0.45	0.29	0.24	0.13	0.13	0.11	0.09	
12	0.00	0.00	0.00	0.14	0.48	0.42	0.29	0.23	0.17	0.13	0.11	0.09	
13	0.00	0.00	0.00	0.14	0.29	0.38	0.28	0.21	0.16	0.13	0.11	0.09	
14	0.00	0.00	0.00	0.11	0.31	0.35	0.28	0.20	0.16	0.13	0.11	0.09	
15	0.00	0.00	0.00	0.11	0.31	0.31	0.28	0.20	0.14	0.13	0.11	0.09	
16	0.00	0.00	0.00	0.11	0.31	0.33	0.29	0.18	0.14	0.13	0.10	0.09	
17	0.00	0.00	0.00	0.14	0.35	0.33	0.28	0.17	0.14	0.11	0.10	0.09	
18	0.00	0.00	0.29	0.14	0.33	0.38	0.29	0.17	0.14	0.11	0.10	0.09	
19	0.00	0.00	0.29	0.14	0.33	0.38	0.33	0.17	0.14	0.11	0.10	0.09	
20	0.00	0.00	1.02	0.14	0.48	0.38	0.33	0.17	0.14	0.11	0.10	0.09	
21	0.00	0.00	0.33	0.23	0.50	0.37	0.33	0.17	0.14	0.11	0.10	0.09	
22	0.00	0.00	0.33	0.23	0.50	0.37	0.31	0.17	0.14	0.11	0.10	0.09	
23	0.00	0.00	0.37	0.23	0.45	0.35	0.29	0.17	0.14	0.11	0.09	0.09	
24	0.00	0.00	0.29	0.28	0.42	0.35	0.28	0.17	0.14	0.11	0.09	0.08	
25	0.00	0.00	0.18	0.29	0.48	0.33	0.24	0.17	0.14	0.11	0.09	0.08	
26	0.00	0.00	0.35	0.59	0.48	0.33	0.29	0.16	0.14	0.11	0.09	0.08	
27	0.00	0.00	0.38	0.45	0.45	0.33	0.29	0.16	0.14	0.11	0.09	0.08	
28	0.00	0.00	0.35	0.48	0.42	0.33	0.26	0.16	0.14	0.11	0.09	0.08	
29	0.00	0.00	0.18	0.48	0.42	0.31	0.21	0.16	0.14	0.11		0.08	
30	0.00	0.00	0.14	0.50	0.45	0.31	0.20	0.16	0.13	0.11		0.09	
31		0.00		0.50	0.59		0.20		0.13	0.11		0.09	
TOTAL	0.63	0.00	4.50	7.00	11.94	12.30	8.69	6.06	4.35	3.82	2.89	2.73	64.91 CMSDAY
MEAN	0.02	0.00	0.15	0.23	0.39	0.41	0.28	0.20	0.14	0.12	0.10	0.09	0.18 CMS
MAX	0.08	0.00	1.02	0.59	0.59	0.74	0.33	0.29	0.17	0.14	0.11	0.09	1.02 CMS
MIN	0.00	0.00	0.00	0.11	0.23	0.31	0.20	0.16	0.13	0.11	0.09	0.08	0.00 CMS
RUNOFF	0.054	0.000	0.389	0.605	1.032	1.063	0.751	0.524	0.376	0.330	0.250	0.236	5.608 MCM

MOMENTARY PEAK 1.99 CMS, AT 528.23 M (MSL), AT 6.00 HOURS, ON JUN 20, 1980

RUNOFF YIELD 12.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 142.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

NAM MAE SAN AT BAN CHAM KHI MOT, LAMPHUN (P.38)

LOCATION — LAT. 18°-30'-41" N., LONG. 99°-08'-09" E., ON LEFT BANK ABOUT 50 METERS DOWNSTREAM FROM CENTER LINE DAMSITE AT BAN CHAM KHI MOT, AMPHOE MAE THA, LAMPHUN.

DRAINAGE AREA — 34 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +373.10 M. (M.S.L.)

BENCH MARK — B.M.-D.I.V.

LOCATION — ON LEFT BANK ABOUT 7.00 METERS UPSTREAM FROM THE GAGE SITE.

ELEVATION — +375.000 M.(M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 6 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

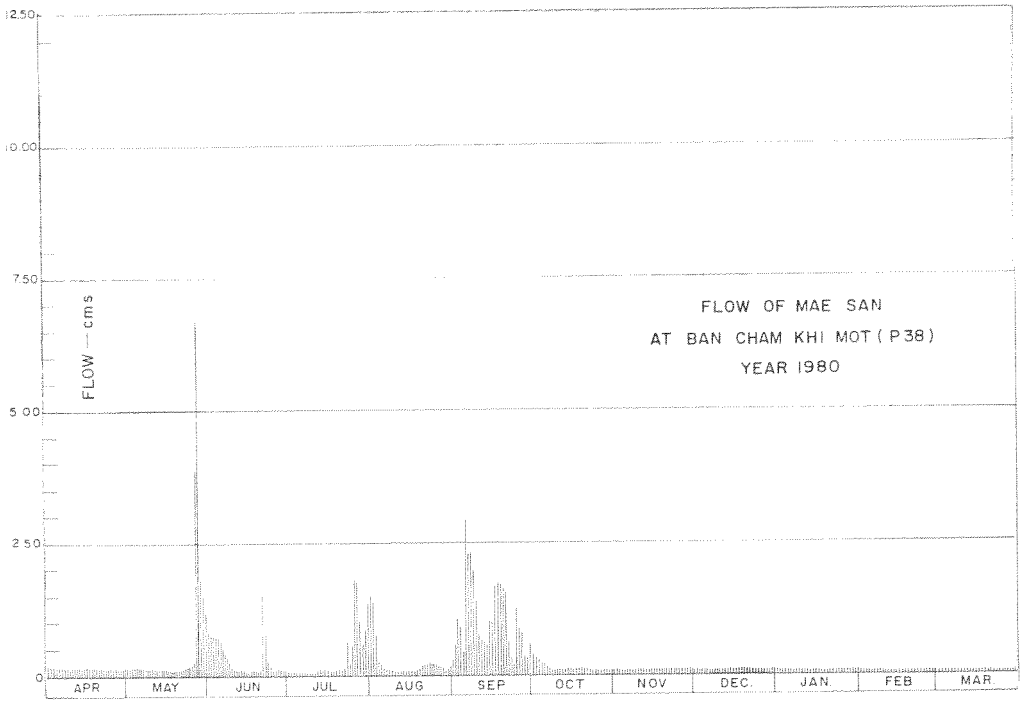
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	373.96	373.93	374.28	373.84	374.50	374.06	374.08	373.87	373.87	373.83	373.80	373.72	
2	373.95	373.92	374.27	373.83	374.45	374.44	374.06	373.86	373.86	373.83	373.80	373.72	
3	373.95	373.92	374.25	373.82	374.31	374.50	374.05	373.86	373.86	373.83	373.80	373.72	
4	373.95	373.92	374.25	373.81	374.01	374.30	374.03	373.85	373.86	373.83	373.80	373.71	
5	373.95	373.92	374.22	373.81	373.96	374.11	373.99	373.85	373.86	373.83	373.79	373.71	
6	373.94	373.91	374.17	373.80	373.93	374.80	373.95	373.85	373.85	373.83	373.79	373.70	
7	373.94	373.91	374.08	373.79	373.90	374.67	373.92	373.84	373.85	373.83	373.79	373.70	
8	373.94	373.91	374.05	373.78	373.90	374.68	373.89	373.84	373.85	373.83	373.78	373.70	
9	373.94	373.91	373.96	373.81	373.88	374.54	373.86	373.84	373.84	373.83	373.78	373.69	
10	373.94	373.91	373.90	373.79	373.86	374.38	373.90	373.84	373.84	373.82	373.77	373.69	
11	373.95	373.91	373.87	373.78	373.86	374.23	373.92	373.84	373.84	373.82	373.77	373.68	
12	373.94	373.92	373.86	373.82	373.86	374.21	373.89	373.83	373.84	373.82	373.76	373.68	
13	373.94	373.92	373.84	373.89	373.86	374.20	373.87	373.83	373.88	373.82	373.76	373.68	
14	373.94	373.91	373.81	373.90	373.86	374.18	373.92	373.83	373.85	373.82	373.76	373.68	
15	373.95	373.92	373.80	373.86	373.85	374.37	373.93	373.83	373.84	373.82	373.75	373.67	
16	373.95	373.91	373.79	373.99	373.87	374.35	373.89	373.84	373.85	373.82	373.75	373.67	
17	373.95	373.91	373.92	373.89	373.86	374.54	373.87	373.84	373.85	373.82	373.74	373.67	
18	373.94	373.91	373.85	373.89	373.88	374.57	373.92	373.86	373.85	373.82	373.74	373.67	
19	373.94	373.91	373.82	373.87	373.90	374.55	373.93	373.86	373.85	373.82	373.74	373.67	
20	373.93	373.92	373.86	373.90	373.93	374.53	373.92	373.86	373.84	373.82	373.74	373.66	
21	373.93	373.93	374.49	373.86	373.99	374.50	373.87	373.86	373.84	373.82	373.73	373.66	
22	373.94	373.94	374.35	373.86	373.98	374.19	373.86	373.85	373.84	373.82	373.73	373.66	
23	373.94	373.96	374.08	374.20	374.02	374.08	373.84	373.85	373.84	373.82	373.73	373.66	
24	373.94	373.97	373.95	373.99	373.99	374.02	373.83	373.85	373.84	373.81	373.73	373.65	
25	373.93	373.99	373.90	374.20	373.97	374.43	373.84	373.85	373.84	373.81	373.73	373.65	
26	373.93	374.01	373.88	374.58	373.96	374.31	373.84	373.85	373.84	373.81	373.72	373.65	
27	373.94	375.36	373.99	374.56	373.96	374.28	373.84	373.87	373.84	373.81	373.72	373.65	
28	373.93	374.61	373.90	374.31	373.94	374.06	373.85	373.87	373.84	373.81	373.72	373.64	
29	373.93	374.50	373.88	374.16	373.89	374.05	373.85	373.87	373.83	373.81		373.64	
30	373.93	374.44	373.86	374.29	373.88	374.19	373.86	373.87	373.83	373.80		373.64	
31		374.40		374.46	373.96		373.87		373.83	373.80		373.64	
MEAN	373.94	374.04	374.00	373.97	373.97	374.34	373.91	373.85	373.85	373.82	373.76	373.67	
MAX	373.96	375.36	374.49	374.58	374.50	374.80	374.08	373.87	373.88	373.83	373.80	373.72	375.36
MIN	373.93	373.91	373.79	373.78	373.85	374.02	373.83	373.83	373.83	373.80	373.72	373.64	373.64

ANNUAL MAX MOMENTARY GAGE HEIGHT — 376.01 M (MSL), AT 6.00 HOURS, ON MAY 27, 1980

ZERO GAGE AT BOTTOM ELEVATION — 373.10 M (MSL), RIVER BED — 373.06 M (MSL)

LEFT BANK ELEVATION — 376.15 M (MSL)

RIGHT BANK ELEVATION — 375.80 M (MSL), DRAINAGE AREA — 34 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.13	0.76	0.07	1.50	0.32	0.36	0.09	0.09	0.06	0.05	0.00	
2	0.15	0.12	0.74	0.06	1.34	1.26	0.32	0.08	0.08	0.05	0.05	0.00	
3	0.15	0.12	0.70	0.06	0.83	1.50	0.30	0.08	0.08	0.06	0.05	0.00	
4	0.15	0.12	0.70	0.06	0.22	0.80	0.26	0.07	0.08	0.06	0.05	0.00	
5	0.15	0.12	0.64	0.06	0.16	0.42	0.19	0.07	0.08	0.06	0.04	0.00	
6	0.14	0.11	0.54	0.05	0.13	2.90	0.15	0.07	0.07	0.06	0.04	0.00	
7	0.14	0.11	0.36	0.04	0.10	2.25	0.12	0.07	0.07	0.06	0.04	0.00	
8	0.14	0.11	0.30	0.03	0.10	2.30	0.09	0.07	0.07	0.06	0.03	0.00	
9	0.14	0.11	0.16	0.06	0.09	1.66	0.08	0.07	0.07	0.06	0.03	0.00	
10	0.14	0.11	0.10	0.04	0.08	1.04	0.10	0.07	0.07	0.06	0.02	0.00	
11	0.15	0.11	0.09	0.03	0.08	0.66	0.12	0.07	0.07	0.06	0.02	0.00	
12	0.14	0.12	0.08	0.06	0.08	0.62	0.09	0.06	0.07	0.06	0.01	0.00	
13	0.14	0.12	0.07	0.09	0.08	0.60	0.09	0.06	0.09	0.06	0.01	0.00	
14	0.14	0.11	0.06	0.10	0.08	0.56	0.12	0.06	0.07	0.06	0.01	0.00	
15	0.15	0.12	0.05	0.08	0.07	1.01	0.13	0.06	0.07	0.06	0.00	0.00	
16	0.15	0.11	0.04	0.09	0.09	0.95	0.09	0.07	0.07	0.06	0.00	0.00	
17	0.15	0.11	0.12	0.09	0.08	1.66	0.09	0.07	0.07	0.06	0.00	0.00	
18	0.14	0.11	0.07	0.09	0.09	1.78	0.12	0.08	0.07	0.06	0.00	0.00	
19	0.14	0.11	0.06	0.09	0.10	1.70	0.13	0.08	0.07	0.06	0.00	0.00	
20	0.13	0.12	0.08	0.10	0.13	1.62	0.12	0.08	0.07	0.06	0.00	0.00	
21	0.13	0.13	1.46	0.08	0.19	1.50	0.09	0.08	0.07	0.06	0.00	0.00	
22	0.14	0.14	0.95	0.08	0.18	0.58	0.08	0.07	0.07	0.06	0.00	0.00	
23	0.14	0.16	0.36	0.60	0.24	0.36	0.07	0.07	0.07	0.06	0.00	0.00	
24	0.14	0.17	0.15	0.19	0.19	0.24	0.06	0.07	0.07	0.06	0.00	0.00	
25	0.13	0.19	0.10	0.60	0.17	1.22	0.07	0.07	0.07	0.06	0.00	0.00	
26	0.13	0.22	0.09	1.82	0.16	0.83	0.07	0.07	0.07	0.06	0.00	0.00	
27	0.14	6.68	0.19	1.74	0.16	0.76	0.07	0.09	0.07	0.06	0.00	0.00	
28	0.13	1.95	0.10	0.83	0.14	0.32	0.07	0.09	0.07	0.06	0.00	0.00	
29	0.13	1.50	0.09	0.52	0.09	0.30	0.07	0.09	0.06	0.06		0.00	
30	0.13	1.26	0.08	0.78	0.09	0.58	0.08	0.09	0.06	0.05		0.00	
31		1.10		1.34	0.16		0.09		0.06	0.05		0.00	
TOTAL	4.23	15.80	9.29	9.93	7.20	32.30	3.89	2.22	2.22	1.84	0.45	0.00	89.37 CMSDAY
MEAN	0.14	0.51	0.31	0.32	0.23	1.08	0.13	0.07	0.07	0.05	0.02	0.00	0.24 CMS
MAX	0.16	6.68	1.46	1.82	1.50	2.90	0.36	0.09	0.09	0.06	0.05	0.00	6.68 CMS
MIN	0.13	0.11	0.04	0.03	0.07	0.24	0.06	0.06	0.06	0.05	0.00	0.00	0.00 CMS
RUNOFF	0.365	1.365	0.803	0.858	0.622	2.791	0.336	0.192	0.192	0.159	0.039	0.000	7.722 MCM

MOMENTARY PEAK 12.91 CMS, AT 376.01 M (MSL), AT 6.00 HOURS, ON MAY 27, 1980

RUNOFF YIELD 7.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 379.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

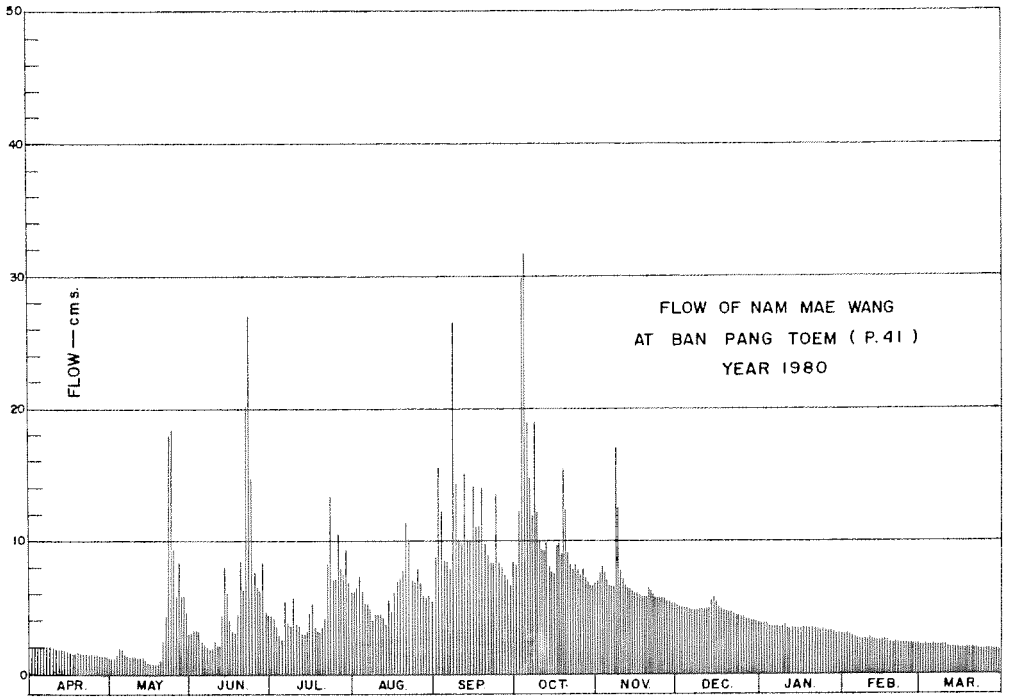
NAM MAE WANG AT BAN PANG TOEM, CHIANG MAI (P.41)

LOCATION	LAT. 18°-37'-00" N., LONG. 98°-44'-43" E., ON LEFT BANK ABOUT 1 KILOMETER FROM BAN PANG TOEM, AMPHOE SAN PA THONG, CHIANG MAI.
DRAINAGE AREA	426 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+322.20 M. (M.S.L.)
BENCH MARK	B.M.-H.D./R.I.D. NO. 23
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+329.595 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 134 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	322.69	322.61	322.81	322.86	322.96	323.09	323.06	323.00	322.90	322.84	322.80	322.72	
2	322.69	322.61	322.81	322.83	322.96	323.35	323.24	323.05	322.90	322.84	322.80	322.72	
3	322.69	322.61	322.81	322.79	323.01	323.18	323.71	323.02	322.90	322.84	322.79	322.72	
4	322.71	322.65	322.74	322.78	322.95	323.07	323.79	323.00	322.90	322.83	322.78	322.72	
5	322.70	322.68	322.72	322.71	322.91	323.07	323.50	322.98	322.89	322.83	322.78	322.72	
6	322.69	322.65	322.70	322.91	322.91	323.04	323.31	322.98	322.89	322.83	322.76	322.72	
7	322.69	322.62	322.68	322.83	322.90	323.66	323.23	322.97	322.89	322.83	322.76	322.72	
8	322.68	322.62	322.68	322.82	322.84	323.37	323.46	323.40	322.89	322.83	322.76	322.72	
9	322.68	322.62	322.73	322.93	322.87	323.16	323.24	323.04	322.89	322.83	322.76	322.72	
10	322.67	322.62	322.71	322.83	322.87	323.14	323.14	323.02	322.89	322.83	322.76	322.72	
11	322.67	322.61	322.69	322.83	322.87	323.33	323.11	322.98	322.89	322.82	322.78	322.70	
12	322.67	322.61	322.72	322.80	322.86	323.30	323.14	322.97	322.89	322.82	322.76	322.70	
13	322.66	322.61	323.05	322.79	322.83	323.15	323.06	322.96	322.93	322.82	322.75	322.70	
14	322.66	322.58	322.95	322.79	322.92	323.21	323.04	322.96	322.94	322.82	322.75	322.70	
15	322.66	322.57	322.87	322.86	322.87	323.30	323.02	322.95	322.91	322.82	322.75	322.70	
16	322.65	322.57	322.80	322.91	322.93	323.20	323.13	322.95	322.90	322.82	322.75	322.70	
17	322.65	322.57	322.79	322.86	322.99	323.22	323.14	322.94	322.89	322.82	322.75	322.70	
18	322.65	322.56	322.86	322.81	323.00	323.30	323.10	322.94	322.89	322.82	322.74	322.70	
19	322.65	322.56	323.06	322.80	323.02	323.19	323.34	323.09	322.88	322.82	322.74	322.69	
20	322.64	322.61	322.96	322.81	323.09	323.12	323.18	322.97	322.88	322.82	322.74	322.69	
21	322.64	322.78	323.49	322.85	323.21	323.07	323.08	322.95	322.88	322.82	322.74	322.69	
22	322.64	322.86	323.67	323.05	323.07	323.06	323.04	322.94	322.87	322.82	322.73	322.68	
23	322.64	323.43	323.34	323.27	323.00	323.28	323.06	322.94	322.87	322.81	322.73	322.68	
24	322.64	323.44	323.10	322.99	322.98	323.07	323.04	322.94	322.86	322.81	322.73	322.68	
25	322.63	323.11	322.99	323.02	323.04	323.06	323.01	322.93	322.86	322.81	322.73	322.68	
26	322.63	322.93	322.95	323.17	322.99	323.03	323.04	322.93	322.86	322.81	322.73	322.68	
27	322.63	323.06	323.06	323.05	322.95	323.01	323.01	322.92	322.85	322.81	322.73	322.68	
28	322.63	322.93	322.92	323.02	322.93	323.00	322.99	322.92	322.85	322.81	322.73	322.68	
29	322.62	322.93	322.87	323.11	322.94	322.98	322.98	322.91	322.85	322.80		322.68	
30	322.62	322.87	322.86	323.00	322.91	323.07	322.98	322.91	322.84	322.80		322.68	
31		322.80		322.95	322.98		323.00		322.84	322.80		322.65	
MEAN	322.66	322.75	322.91	322.90	322.95	323.17	323.17	322.98	322.88	322.82	322.75	322.70	
MAX	322.71	323.44	323.67	323.27	323.21	323.66	323.79	323.40	322.94	322.84	322.80	322.72	323.79
MIN	322.62	322.56	322.68	322.71	322.83	322.98	322.98	322.91	322.84	322.80	322.73	322.65	322.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 324.40 M (MSL), AT 22.00 HOURS, ON MAY 24, 1980
ZERO GAGE AT BOTTOM ELEVATION 322.20 M (MSL), RIVER BED 322.44 M (MSL)
LEFT BANK ELEVATION 328.54 M (MSL)
RIGHT BANK ELEVATION 329.18 M (MSL), DRAINAGE AREA 426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.90	1.10	3.20	4.20	6.20	8.80	8.20	7.00	5.00	3.80	3.00	2.20	
2	1.90	1.10	3.20	3.60	6.20	15.50	12.20	8.00	5.00	3.80	3.00	2.20	
3	1.90	1.10	3.20	2.90	7.20	10.60	28.40	7.40	5.00	3.80	2.90	2.20	
4	2.10	1.50	2.40	2.80	6.00	8.40	31.60	7.00	5.00	3.60	2.80	2.20	
5	2.00	1.80	2.20	2.10	5.20	8.40	20.00	6.60	4.80	3.60	2.80	2.20	
6	1.90	1.50	2.00	5.20	5.20	7.80	14.30	6.60	4.80	3.60	2.60	2.20	
7	1.90	1.20	1.80	3.60	5.00	26.40	11.90	6.40	4.80	3.60	2.60	2.20	
8	1.80	1.20	1.80	3.40	3.80	16.10	18.80	17.00	4.80	3.60	2.60	2.20	
9	1.80	1.20	2.30	5.60	4.40	10.20	12.20	7.80	4.80	3.60	2.60	2.20	
10	1.70	1.20	2.10	3.60	4.40	9.80	9.80	7.40	4.80	3.60	2.60	2.20	
11	1.70	1.10	1.90	3.60	4.40	14.90	9.20	6.60	4.80	3.40	2.80	2.00	
12	1.70	1.10	2.20	3.00	4.20	14.00	9.80	6.40	4.80	3.40	2.60	2.00	
13	1.60	1.10	8.00	2.90	3.60	10.00	8.20	6.20	5.60	3.40	2.50	2.00	
14	1.60	0.80	6.00	2.90	5.40	11.30	7.80	6.20	5.80	3.40	2.50	2.00	
15	1.60	0.70	4.40	4.20	4.40	14.00	7.40	6.00	5.20	3.40	2.50	2.00	
16	1.50	0.70	3.00	5.20	5.60	11.00	9.60	6.00	5.00	3.40	2.50	2.00	
17	1.50	0.70	2.90	4.00	6.80	11.60	9.80	5.80	4.80	3.40	2.50	2.00	
18	1.50	0.60	4.20	3.20	7.00	14.00	9.00	5.80	4.80	3.40	2.40	2.00	
19	1.50	0.60	8.20	3.00	7.40	10.80	15.20	8.80	4.60	3.40	2.40	1.90	
20	1.40	1.10	6.20	3.20	8.80	9.40	10.60	6.40	4.60	3.40	2.40	1.90	
21	1.40	2.80	19.70	4.00	11.30	8.40	8.60	6.00	4.60	3.40	2.40	1.90	
22	1.40	4.20	26.80	8.00	8.40	8.20	7.80	5.80	4.40	3.40	2.30	1.80	
23	1.40	17.90	15.20	13.10	7.00	13.40	8.20	5.80	4.40	3.20	2.30	1.80	
24	1.40	18.20	9.00	6.80	6.60	8.40	7.80	5.80	4.20	3.20	2.30	1.80	
25	1.30	9.20	6.80	7.40	7.80	8.20	7.20	5.60	4.20	3.20	2.30	1.80	
26	1.30	5.60	6.00	10.40	6.80	7.60	7.80	5.60	4.20	3.20	2.30	1.80	
27	1.30	8.20	8.20	8.00	6.00	7.20	7.20	5.40	4.00	3.20	2.30	1.80	
28	1.30	5.60	5.40	7.40	5.60	7.00	6.80	5.40	4.00	3.20	2.30	1.80	
29	1.20	5.60	4.40	9.20	5.80	6.60	6.60	5.20	4.00	3.00		1.80	
30	1.20	4.40	4.20	7.00	5.20	8.40	6.60	5.20	3.80	3.00		1.80	
31		3.00		6.00	6.60		7.00		3.80	3.00		1.50	
TOTAL	47.70	106.10	176.90	159.50	188.30	326.40	345.60	201.20	144.40	105.60	71.10	61.40	1934.20 CMSDAY
MEAN	1.59	3.42	5.90	5.15	6.07	10.88	11.15	6.71	4.66	3.41	2.54	1.98	5.30 CMS
MAX	2.10	18.20	26.80	13.10	11.30	26.40	31.60	17.00	5.80	3.80	3.00	2.20	31.60 CMS
MIN	1.20	0.60	1.80	2.10	3.60	6.60	6.60	5.20	3.80	3.00	2.30	1.50	0.60 CMS
RUNOFF	4.121	9.167	15.284	13.781	16.269	28.201	29.860	17.384	12.476	9.124	6.143	5.305	167.115 MCM

MOMENTARY PEAK 58.00 CMS, AT 324.40 M (MSL), AT 22.00 HOURS, ON MAY 24, 1980

RUNOFF YIELD 12.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 136.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PING RIVER BASIN

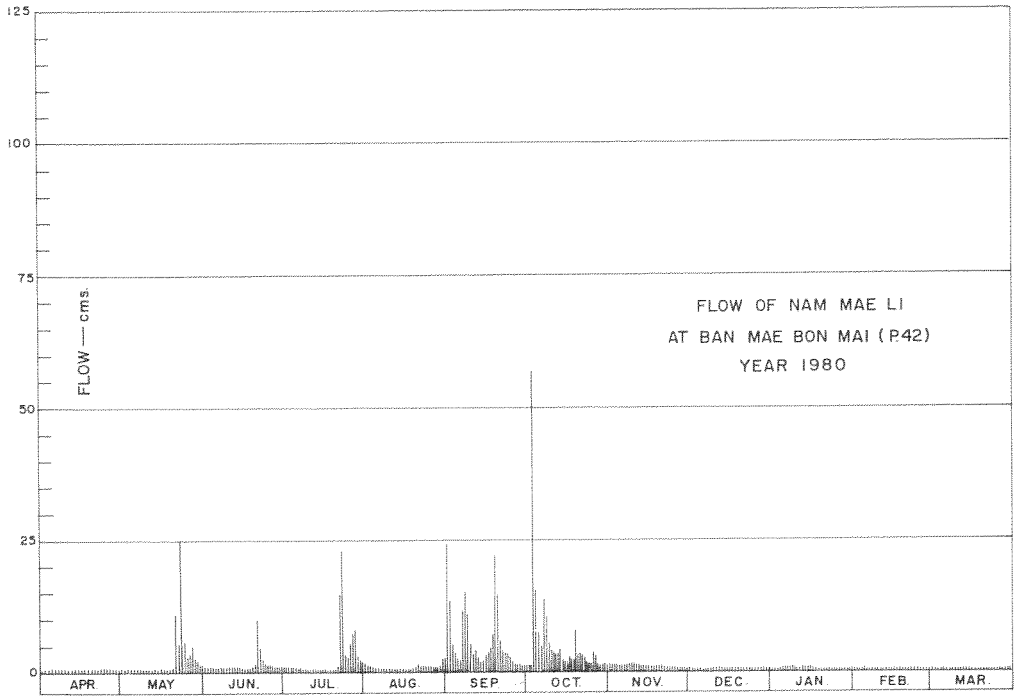
NAM MAE LI AT BAN MAE BON MAI, LAMPHUN (P.42)

LOCATION	LAT. 17°-53'-16" N., LONG. 99°-05'-20" E., ON RIGHT BANK AT BAN MAE BON MAI, AMPHOE LI, LAMPHUN.
DRAINAGE AREA	315 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+500.10 M. (M.S.L.)
BENCH MARK	B.M.-R.I.D.
LOCATION	ALONG STAFF GAGE LINE.
ELEVATION	+505.708 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 100 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	500.33	500.29	500.68	500.65	500.73	502.00	500.64	500.74	500.53	500.40	500.50	500.35	
2	500.34	500.29	500.67	500.64	500.69	501.51	500.67	500.71	500.52	500.41	500.50	500.35	
3	500.33	500.29	500.65	500.63	500.65	501.12	503.06	500.69	500.51	500.49	500.49	500.35	
4	500.32	500.30	500.69	500.62	500.65	500.99	501.64	500.68	500.49	500.57	500.51	500.35	
5	500.32	500.29	500.65	500.62	500.64	500.89	501.24	500.67	500.49	500.58	500.52	500.35	
6	500.32	500.29	500.65	500.61	500.61	500.84	501.04	500.66	500.48	500.57	500.42	500.35	
7	500.32	500.28	500.65	500.61	500.59	501.45	501.58	500.65	500.48	500.53	500.39	500.65	
8	500.42	500.28	500.65	500.60	500.55	501.57	501.51	500.71	500.47	500.56	500.39	500.49	
9	500.35	500.27	500.64	500.59	500.54	501.13	501.17	500.74	500.47	500.57	500.39	500.46	
10	500.49	500.27	500.63	500.59	500.53	501.00	501.01	500.72	500.47	500.53	500.37	500.44	
11	500.44	500.26	500.63	500.59	500.53	500.89	500.94	500.70	500.45	500.47	500.37	500.41	
12	500.36	500.26	500.62	500.59	500.54	501.00	500.92	500.67	500.45	500.53	500.37	500.39	
13	500.35	500.26	500.61	500.59	500.54	500.83	501.00	500.65	500.44	500.54	500.37	500.37	
14	500.34	500.25	500.61	500.59	500.53	500.76	500.86	500.65	500.43	500.53	500.37	500.37	
15	500.33	500.25	500.60	500.59	500.53	500.89	500.80	500.64	500.42	500.52	500.37	500.37	
16	500.33	500.25	500.59	500.59	500.53	501.00	500.76	500.63	500.41	500.55	500.37	500.37	
17	500.33	500.24	500.59	500.59	500.53	501.01	500.89	500.62	500.40	500.43	500.36	500.37	
18	500.34	500.23	500.60	500.59	500.53	501.22	500.82	500.61	500.40	500.43	500.36	500.37	
19	500.35	500.22	500.61	500.59	500.55	501.92	501.28	500.65	500.40	500.45	500.36	500.37	
20	500.35	500.52	500.76	500.59	500.61	501.44	500.94	500.64	500.40	500.46	500.36	500.37	
21	500.34	501.41	501.38	500.59	500.70	501.10	500.96	500.61	500.39	500.48	500.36	500.37	
22	500.33	501.04	501.05	501.27	500.63	501.02	500.91	500.60	500.39	500.51	500.36	500.36	
23	500.35	502.06	500.85	501.97	500.62	500.96	500.84	500.59	500.39	500.44	500.36	500.35	
24	500.36	501.21	500.75	500.99	500.64	500.91	500.77	500.59	500.39	500.44	500.36	500.34	
25	500.34	501.00	500.74	500.84	500.65	500.82	500.74	500.58	500.39	500.44	500.36	500.34	
26	500.33	500.87	500.71	500.98	500.62	500.74	500.98	500.57	500.39	500.45	500.36	500.34	
27	500.32	501.07	500.69	501.23	500.60	500.70	500.75	500.56	500.39	500.47	500.36	500.34	
28	500.31	500.89	500.67	501.26	500.59	500.70	500.70	500.55	500.39	500.49	500.36	500.34	
29	500.31	500.83	500.66	500.98	500.67	500.66	500.69	500.55	500.39	500.50		500.34	
30	500.31	500.74	500.67	500.85	500.89	500.67	500.71	500.54	500.39	500.51		500.34	
31		500.71		500.78	500.80		500.69		500.39	500.50		500.34	
MEAN	500.34	500.56	500.70	500.77	500.61	501.06	501.02	500.64	500.43	500.49	500.39	500.38	
MAX	500.49	502.06	501.38	501.97	500.89	502.00	503.06	500.74	500.53	500.58	500.52	500.65	503.06
MIN	500.31	500.22	500.59	500.59	500.53	500.66	500.64	500.54	500.39	500.40	500.36	500.34	500.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 503.45 M (MSL), AT 7.00 HOURS, ON OCT 3, 1980
ZERO GAGE AT BOTTOM ELEVATION 500.10 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 506.34 M (MSL)
RIGHT BANK ELEVATION 505.63 M (MSL), DRAINAGE AREA 315 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.00	1.40	1.25	1.65	23.70	1.25	1.70	0.65	0.25	0.50	0.12	
2	0.10	0.00	1.35	1.20	1.45	12.70	1.35	1.55	0.60	0.27	0.50	0.12	
3	0.07	0.00	1.25	1.15	1.25	5.80	56.90	1.45	0.55	0.47	0.47	0.12	
4	0.05	0.00	1.45	1.10	1.25	3.90	15.30	1.40	0.47	0.35	0.55	0.12	
5	0.05	0.00	1.25	1.10	1.20	2.90	7.60	1.35	0.47	0.90	0.60	0.12	
6	0.05	0.00	1.25	1.05	1.05	2.40	4.60	1.30	0.45	0.85	0.30	0.12	
7	0.05	0.00	1.25	1.05	0.95	11.50	14.10	1.25	0.45	0.65	0.22	1.45	
8	0.30	0.00	1.25	1.00	0.75	13.90	12.70	1.55	0.42	0.80	0.22	0.47	
9	0.12	0.00	1.20	0.95	0.70	5.95	6.55	1.70	0.42	0.85	0.22	0.40	
10	0.47	0.00	1.15	0.95	0.65	4.00	4.15	1.60	0.42	0.65	0.18	0.35	
11	0.35	0.00	1.15	0.95	0.65	2.90	3.40	1.50	0.37	0.42	0.18	0.27	
12	0.15	0.00	1.10	0.95	0.70	4.00	3.20	1.35	0.37	0.65	0.18	0.22	
13	0.12	0.00	1.05	0.95	0.70	2.30	4.00	1.25	0.35	0.70	0.18	0.18	
14	0.10	0.00	1.05	0.95	0.65	1.80	2.60	1.25	0.32	0.65	0.18	0.18	
15	0.07	0.00	1.00	0.95	0.65	2.80	2.00	1.20	0.30	0.60	0.18	0.18	
16	0.07	0.00	0.95	0.95	0.65	4.00	1.80	1.15	0.27	0.75	0.18	0.18	
17	0.07	0.00	0.95	0.95	0.65	4.15	2.90	1.10	0.25	0.32	0.15	0.18	
18	0.10	0.00	1.00	0.95	0.65	7.30	2.20	1.05	0.25	0.32	0.15	0.18	
19	0.12	0.00	1.05	0.95	0.75	21.62	8.20	1.25	0.25	0.37	0.15	0.18	
20	0.12	0.60	1.80	0.95	1.05	11.30	3.40	1.20	0.25	0.42	0.15	0.18	
21	0.10	10.70	10.10	0.95	1.50	5.50	3.60	1.05	0.22	0.45	0.15	0.18	
22	0.07	4.60	4.75	8.05	1.15	4.30	3.10	1.00	0.22	0.55	0.15	0.15	
23	0.12	25.26	2.50	22.92	1.10	3.60	2.45	0.95	0.22	0.35	0.15	0.12	
24	0.15	7.15	1.75	5.90	1.25	3.10	1.85	0.95	0.22	0.35	0.15	0.10	
25	0.10	4.00	1.70	2.40	1.25	2.20	1.70	0.90	0.22	0.35	0.15	0.10	
26	0.07	2.70	1.55	3.80	1.10	1.70	3.50	0.85	0.22	0.37	0.15	0.10	
27	0.05	5.05	1.45	7.45	1.00	1.50	1.75	0.80	0.22	0.40	0.15	0.10	
28	0.03	2.90	1.35	7.90	0.95	1.50	1.50	0.75	0.22	0.47	0.15	0.10	
29	0.03	2.30	1.30	3.80	1.35	1.35	1.45	0.75	0.22	0.50		0.10	
30	0.03	1.75	1.35	2.50	2.90	1.35	1.55	0.70	0.22	0.55		0.10	
31		1.55		1.90	2.00		1.45		0.22	0.50		0.10	
TOTAL	3.33	68.61	61.70	80.67	33.50	175.07	188.30	35.85	10.30	16.58	6.64	6.37	676.04 CMSDAY
MEAN	0.11	2.21	1.72	2.77	1.08	5.84	5.88	1.19	0.33	0.53	0.24	0.21	1.85 CMS
MAX	0.47	25.26	10.10	22.92	2.90	23.70	56.90	1.70	0.65	0.90	0.60	1.25	56.90 CMS
MIN	0.03	0.00	0.95	0.95	0.65	1.80	1.20	0.70	0.22	0.25	0.15	0.10	0.00 CMS
RUNOFF	0.289	5.919	4.467	7.419	2.894	15.128	15.751	3.097	0.890	1.433	0.574	0.550	58.410 MCM

MOMENTARY PEAK 73.25 CMS, AT 503.45 M (MSL), AT 7.30 HOURS, ON OCT 3, 1980

RUNOFF YIELD 5.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 232.53 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

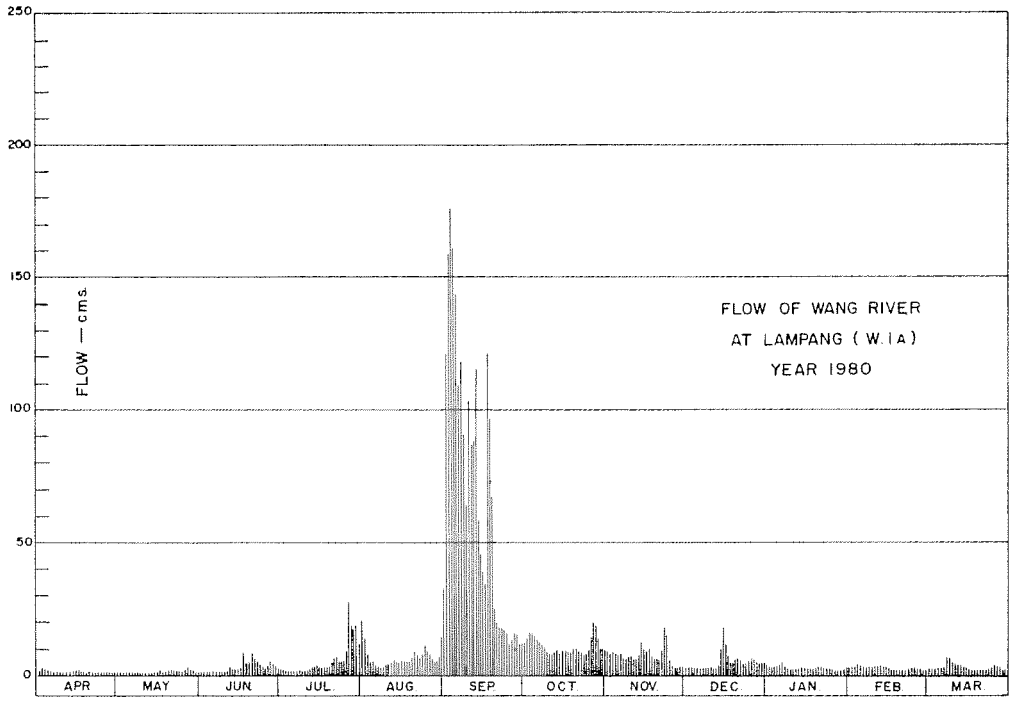
WANG RIVER AT LAMPANG, LAMPANG (W.1A)

LOCATION	LAT. 18°-17'-24" N., LONG. 99°-29'-40" E., ON LEFT BANK ABOUT 300 METERS UPSTREAM FROM KITTIKHACHON II BRIDGE, AMPHOE MUANG, LAMPANG
DRAINAGE AREA	3,481 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+227.80 M. (M.S.L.)
BENCH MARK	B.M.-W.1A
LOCATION	NEAR THE TOP STAFF GAGE.
ELEVATION	+234.247 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 87 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	228.09	228.07	228.11	228.21	228.92	229.22	228.46	228.35	228.07	228.08	228.05	228.01	
2	228.27	228.08	228.09	228.19	228.77	230.65	228.51	228.34	228.07	228.07	228.06	228.02	
3	228.21	228.09	228.08	228.17	228.60	231.23	228.61	228.32	228.07	228.07	228.08	228.04	
4	228.16	228.10	228.08	228.16	228.37	231.11	228.60	228.33	228.06	228.11	228.13	228.01	
5	228.13	228.10	228.09	228.15	228.38	230.82	228.55	228.30	228.04	228.13	228.11	228.04	
6	228.12	228.10	228.13	228.17	228.30	230.36	228.50	228.28	228.02	228.16	228.08	228.04	
7	228.12	228.09	228.11	228.17	228.27	230.48	228.46	228.31	228.03	228.11	228.06	228.03	
8	228.11	228.08	228.11	228.17	228.25	230.10	228.46	228.21	228.04	228.06	228.08	228.26	
9	228.11	228.08	228.13	228.17	228.25	229.69	228.38	228.25	228.03	228.02	228.06	228.25	
10	228.09	228.09	228.13	228.17	228.32	230.27	228.31	228.25	228.03	228.04	228.08	228.15	
11	228.08	228.08	228.15	228.17	228.34	230.02	228.31	228.25	228.05	228.03	228.08	228.15	
12	228.08	228.09	228.24	228.18	228.38	230.06	228.28	228.18	228.02	228.02	228.09	228.11	
13	228.08	228.11	228.21	228.22	228.40	230.44	228.33	228.27	228.05	228.04	228.08	228.12	
14	228.11	228.08	228.19	228.23	228.38	229.56	228.34	228.50	228.38	228.03	228.06	228.10	
15	228.15	228.09	228.17	228.30	228.34	229.18	228.29	228.38	228.66	228.05	228.05	228.07	
16	228.17	228.13	228.21	228.26	228.35	229.08	228.34	228.33	228.45	228.06	228.05	228.03	
17	228.15	228.18	228.56	228.24	228.38	230.53	228.36	228.38	228.22	228.04	228.02	227.98	
18	228.12	228.13	228.38	228.23	228.38	230.18	228.32	228.29	228.14	228.04	228.01	227.97	
19	228.10	228.08	228.26	228.25	228.37	229.49	228.33	228.20	228.22	228.07	227.99	227.97	
20	228.08	228.15	228.55	228.34	228.40	228.81	228.41	228.23	228.23	228.08	227.99	227.97	
21	228.09	228.17	228.46	228.39	228.53	228.69	228.37	228.18	228.23	228.06	227.98	227.97	
22	228.09	228.20	228.38	228.47	228.46	228.64	228.33	228.33	228.15	228.05	227.99	227.99	
23	228.08	228.17	228.38	228.41	228.42	228.64	228.31	228.65	228.10	228.05	228.01	228.00	
24	228.08	228.16	228.32	228.35	228.50	228.62	228.28	228.52	228.12	228.03	228.03	228.00	
25	228.08	228.15	228.25	228.36	228.61	228.50	228.29	228.20	228.24	228.01	228.03	228.07	
26	228.10	228.12	228.24	228.52	228.51	228.43	228.53	228.13	228.25	227.99	228.01	228.09	
27	228.13	228.23	228.39	229.08	228.44	228.59	228.72	228.07	228.20	227.97	228.02	228.08	
28	228.10	228.20	228.34	228.84	228.39	228.59	228.67	228.05	228.15	227.97	228.00	228.03	
29	228.08	228.15	228.27	228.81	228.38	228.48	228.48	228.09	228.16	227.99		227.99	
30	228.08	228.12	228.24	228.88	228.40	228.46	228.40	228.07	228.15	228.05		228.00	
31		228.09		228.61	228.74		228.39		228.13	228.03		228.06	
MEAN	228.11	228.12	228.24	228.35	228.44	229.56	228.42	228.27	228.15	228.05	228.05	228.05	
MAX	228.27	228.23	228.56	229.08	228.92	231.23	228.72	228.65	228.66	228.16	228.13	228.26	231.23
MIN	228.08	228.07	228.08	228.15	228.25	228.43	228.28	228.05	228.02	227.97	227.98	227.97	227.97

ANNUAL MAX MOMENTARY GAGE HEIGHT 231.27 M (MSL), AT 13.00 HOURS, ON SEP 3, 1980
ZERO GAGE AT BOTTOM ELEVATION 227.80 M (MSL), RIVER BED 227.33 M (MSL)
LEFT BANK ELEVATION 234.72 M (MSL)
RIGHT BANK ELEVATION 234.25 M (MSL), DRAINAGE AREA 3481 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.49	0.83	2.15	20.54	32.90	11.50	8.75	2.88	3.02	2.60	2.04	
2	3.05	0.56	0.63	1.87	15.38	122.50	12.82	8.50	2.88	2.88	2.74	2.18	
3	2.15	0.63	0.56	1.61	10.20	174.25	16.03	8.00	2.88	2.88	3.02	2.46	
4	1.48	0.70	0.56	1.48	4.76	164.80	15.70	8.25	2.74	3.50	3.90	2.04	
5	1.09	0.70	0.63	1.35	4.94	142.50	14.10	7.50	2.46	3.90	3.50	2.46	
6	0.96	0.70	1.09	1.61	3.50	108.60	12.50	7.06	2.18	4.50	3.02	2.46	
7	0.96	0.63	0.83	1.61	3.05	117.30	11.50	7.75	2.32	3.50	2.74	2.32	
8	0.83	0.56	0.83	1.61	2.75	90.50	11.50	5.52	2.46	2.74	3.02	6.62	
9	0.83	0.56	1.09	1.61	2.75	64.92	9.50	6.40	2.32	2.18	2.74	6.40	
10	0.63	0.63	1.09	1.61	3.86	102.07	7.75	6.40	2.32	2.46	3.02	4.30	
11	0.56	0.56	1.35	1.61	4.22	85.30	7.75	6.40	2.60	2.32	3.02	4.30	
12	0.56	0.63	2.60	1.74	4.94	87.90	7.06	4.90	2.18	2.18	3.16	3.50	
13	0.56	0.83	2.15	2.30	5.30	114.40	8.25	6.84	2.60	2.46	3.02	3.70	
14	0.83	0.56	1.87	2.45	4.94	57.58	8.50	12.50	9.50	2.32	2.74	3.30	
15	1.35	0.63	1.61	3.50	4.22	38.60	7.28	9.50	17.68	2.60	2.60	2.88	
16	1.61	1.09	2.15	2.90	4.40	34.10	8.50	8.25	11.25	2.74	2.60	2.32	
17	1.35	1.74	9.16	2.60	4.94	120.92	9.00	9.50	5.74	2.46	2.18	1.70	
18	0.96	1.09	4.94	2.45	4.94	95.70	8.00	7.28	4.10	2.46	2.04	1.60	
19	0.70	0.56	2.90	2.75	4.76	53.87	8.25	5.30	5.74	2.88	1.80	1.60	
20	0.56	1.35	8.90	4.22	5.30	23.22	10.25	5.96	5.96	3.02	1.80	1.60	
21	0.63	1.61	6.68	5.12	8.38	18.67	9.25	4.90	5.96	2.74	1.70	1.60	
22	0.63	2.00	4.94	6.91	6.68	17.02	8.25	8.25	4.30	2.60	1.80	1.80	
23	0.56	1.61	4.94	5.53	5.76	17.02	7.75	17.35	3.30	2.60	2.04	1.90	
24	0.56	1.48	3.86	4.40	7.60	16.36	7.06	13.14	3.70	2.32	2.32	1.90	
25	0.56	1.35	2.75	4.58	10.48	12.50	7.28	5.30	6.18	2.04	2.32	2.88	
26	0.70	0.96	2.60	8.12	7.86	10.75	13.46	3.90	6.40	1.80	2.04	3.16	
27	1.09	2.45	5.12	26.86	6.22	15.38	19.77	2.88	5.30	1.60	2.18	3.02	
28	0.70	2.00	4.22	17.76	5.12	15.38	18.01	2.60	4.30	1.60	1.90	2.32	
29	0.56	1.35	3.05	16.74	4.94	12.00	12.00	3.16	4.50	1.80		1.80	
30	0.56	0.96	2.60	19.12	5.30	11.50	10.00	2.88	4.30	2.60		1.90	
31		0.63		10.48	14.36		9.75		3.90	2.32		2.74	
TOTAL	28.20	31.60	86.53	168.65	202.39	1978.51	328.32	214.92	144.93	81.02	71.56	84.80	3421.42 CMSDAY
MEAN	0.94	1.02	2.88	5.44	6.53	65.95	10.59	7.16	4.68	2.61	2.56	2.74	9.37 CMS
MAX	3.05	2.45	9.16	26.86	20.54	174.25	19.77	17.35	17.68	4.50	3.90	6.62	174.25 CMS
MIN	0.56	0.49	0.56	1.35	2.75	10.75	7.06	2.60	2.18	1.60	1.70	1.60	0.49 CMS
RUNOFF	2.436	2.730	7.476	14.571	17.486	170.943	28.367	18.569	12.522	7.000	6.183	7.327	295.611 MCM

MOMENTARY PEAK 177.25 CMS, AT 231.27 M (MSL), AT 13.00 HOURS, ON SEP 3, 1980

RUNOFF YIELD 2.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 50.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

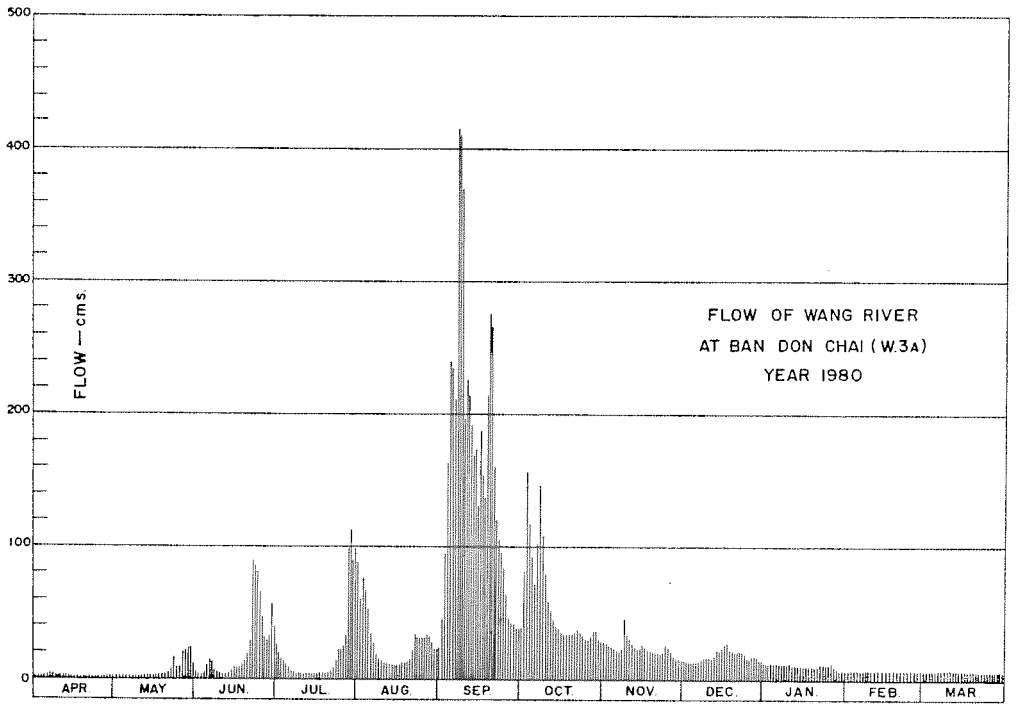
WANG RIVER AT BAN DON CHAI, LAMPANG (w.3A)

LOCATION	LAT. 17°-30'-29" N., LONG. 99°-14'-04" E., ON RIGHT BANK ABOUT 30 METERS UPSTREAM FROM SIRIYONG BRIDGE, AMPHOE THOEN, LAMPANG.
DRAINAGE AREA	8,985 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+161.00 M. (M.S.L.)
BENCH MARK	B.M.-M.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+167.556 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 20 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	161.61	161.50	161.71	162.22	162.86	162.43	162.39	162.08	161.84	161.76	161.64	161.64	
2	161.60	161.50	161.73	162.09	162.66	162.76	162.52	162.07	161.82	161.75	161.64	161.64	
3	161.59	161.50	161.68	162.03	162.82	163.31	163.48	162.03	161.80	161.75	161.64	161.64	
4	161.61	161.48	161.79	162.00	162.65	163.98	163.23	162.01	161.80	161.75	161.64	161.64	
5	161.60	161.50	161.96	161.94	162.45	163.96	163.00	162.00	161.79	161.75	161.64	161.64	
6	161.68	161.50	162.04	161.89	162.30	163.83	162.77	161.99	161.79	161.74	161.64	161.63	
7	161.68	161.50	161.93	161.80	162.19	164.87	163.05	161.95	161.85	161.75	161.64	161.63	
8	161.68	161.49	161.81	161.76	162.09	164.34	163.40	161.97	161.87	161.75	161.64	161.63	
9	161.63	161.49	161.75	161.76	162.02	164.51	163.17	162.34	161.88	161.76	161.64	161.63	
10	161.61	161.48	161.71	161.76	161.99	163.74	162.85	162.16	161.87	161.74	161.64	161.63	
11	161.61	161.48	161.72	161.74	161.96	163.92	162.56	162.12	161.86	161.73	161.64	161.62	
12	161.59	161.48	161.72	161.73	161.95	163.82	162.43	162.08	161.84	161.72	161.64	161.62	
13	161.59	161.52	161.70	161.72	161.94	163.56	162.34	162.02	161.90	161.72	161.64	161.62	
14	161.59	161.53	161.80	161.72	161.93	163.60	162.26	161.98	161.95	161.71	161.64	161.62	
15	161.58	161.58	161.90	161.71	161.93	163.30	162.24	162.00	161.97	161.71	161.64	161.61	
16	161.57	161.57	161.90	161.72	161.92	163.68	162.19	162.05	162.03	161.72	161.64	161.61	
17	161.57	161.53	161.87	161.74	161.97	163.34	162.15	162.00	162.07	161.71	161.64	161.61	
18	161.56	161.50	161.94	161.75	161.96	163.78	162.16	161.98	161.99	161.70	161.64	161.61	
19	161.56	161.49	162.01	161.75	161.97	164.19	162.16	161.98	161.97	161.70	161.63	161.61	
20	161.61	161.50	162.18	161.74	161.95	164.10	162.17	161.96	161.96	161.70	161.63	161.61	
21	161.60	161.72	162.35	161.77	162.13	163.42	162.17	161.95	161.96	161.70	161.63	161.60	
22	161.59	161.79	162.93	161.82	162.33	163.15	162.22	161.94	161.97	161.73	161.63	161.60	
23	161.58	162.06	162.90	161.89	162.31	163.01	162.22	161.92	161.95	161.74	161.63	161.60	
24	161.58	161.91	162.85	162.15	162.31	162.99	162.17	161.98	161.91	161.74	161.63	161.60	
25	161.56	161.81	162.62	162.16	162.31	162.93	162.14	162.06	161.86	161.74	161.63	161.60	
26	161.54	162.15	162.38	162.16	162.31	162.60	162.10	162.00	161.84	161.74	161.63	161.60	
27	161.53	162.13	162.26	162.30	162.35	162.47	162.10	161.90	161.87	161.68	161.63	161.59	
28	161.52	162.17	162.29	163.03	162.30	162.46	162.20	161.89	161.88	161.64	161.64	161.59	
29	161.50	162.20	162.65	163.15	162.23	162.44	162.20	161.86	161.86	161.63		161.59	
30	161.49	162.06	162.43	162.95	162.18	162.39	162.16	161.85	161.82	161.63		161.59	
31		161.89		163.02	162.18		162.09		161.81	161.63		161.59	
MEAN	161.59	161.68	162.08	162.03	162.21	163.44	162.46	162.00	161.89	161.72	161.64	161.61	
MAX	161.68	162.20	162.93	163.15	162.86	164.87	163.48	162.34	162.07	161.76	161.64	161.64	164.87
MIN	161.49	161.48	161.68	161.71	161.92	162.39	162.09	161.85	161.79	161.63	161.63	161.59	161.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 165.65 M (MSL), AT 12.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 161.00 M (MSL), RIVER BED 160.46 M (MSL)
LEFT BANK ELEVATION 171.29 M (MSL)
RIGHT BANK ELEVATION 171.26 M (MSL), DRAINAGE AREA 8985 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	0.20	2.75	24.40	79.00	39.40	36.30	27.40	14.80	11.40	6.60	6.60	
2	0.70	0.20	3.25	17.05	59.20	69.00	46.70	26.85	13.90	11.00	6.60	6.60	
3	0.65	0.20	2.14	14.35	75.00	132.30	155.60	24.65	13.00	11.00	6.60	6.60	
4	0.88	0.16	4.75	13.00	58.25	236.50	121.90	23.55	13.00	11.00	6.60	6.60	
5	0.70	0.20	11.20	10.30	41.00	233.00	94.00	23.00	12.60	11.00	6.60	6.60	
6	2.14	0.20	14.80	8.15	30.00	210.25	70.00	22.45	12.60	10.60	6.60	6.20	
7	2.14	0.20	9.85	5.00	22.45	414.93	99.75	20.25	15.25	11.00	6.60	6.20	
8	2.14	0.18	5.35	4.50	17.05	408.10	144.00	21.35	16.15	11.00	6.60	6.20	
9	1.24	0.18	3.75	4.00	13.90	338.10	118.35	44.50	16.60	11.40	6.60	6.20	
10	0.88	0.16	2.75	4.00	12.55	195.40	86.50	32.40	16.15	10.60	6.60	6.20	
11	0.88	0.16	3.00	3.50	11.20	226.00	61.30	29.80	15.70	10.20	6.60	5.80	
12	0.65	0.16	3.00	3.25	10.75	208.50	51.25	27.40	14.80	9.80	6.60	5.80	
13	0.65	0.30	2.50	3.00	10.30	167.20	44.50	24.10	17.50	9.80	6.60	5.80	
14	0.65	0.35	5.00	3.00	9.85	173.00	38.90	21.90	20.25	9.40	6.60	5.80	
15	0.60	0.60	8.50	2.75	9.85	131.00	37.60	23.00	21.35	9.40	6.60	5.40	
16	0.55	0.55	8.50	3.00	9.40	185.80	34.35	25.75	24.65	9.80	6.60	5.40	
17	0.55	0.35	7.45	3.50	11.65	136.20	31.75	23.00	26.85	9.40	6.60	5.40	
18	0.50	0.20	10.30	3.75	11.20	201.80	32.40	21.90	22.45	9.00	6.60	5.40	
19	0.50	0.18	13.45	3.75	11.65	274.65	32.40	21.90	21.35	9.00	6.20	5.40	
20	0.88	0.20	21.90	3.50	12.10	258.00	33.05	20.80	20.80	9.00	6.20	5.40	
21	0.70	3.00	33.50	4.25	19.15	146.90	33.05	20.25	20.80	9.00	6.20	5.00	
22	0.65	4.75	86.30	5.70	32.10	111.75	36.30	19.70	21.35	10.20	6.20	5.00	
23	0.60	15.70	83.00	8.15	30.70	95.15	36.30	18.60	20.25	10.60	6.20	5.00	
24	0.60	8.95	78.00	20.25	30.70	92.90	33.05	21.90	18.05	10.60	6.20	5.00	
25	0.50	5.35	55.40	20.80	30.70	76.00	31.10	26.30	15.70	10.60	6.20	5.00	
26	0.40	20.25	35.60	20.80	30.70	53.50	28.50	23.00	14.80	10.60	6.20	5.00	
27	0.35	19.15	27.20	30.00	33.50	42.60	28.50	17.50	16.15	8.20	6.20	4.80	
28	0.30	21.35	29.30	97.45	30.00	41.80	35.00	17.05	16.60	6.60	6.60	4.80	
29	0.20	23.00	58.25	111.75	25.10	40.20	35.00	15.70	15.70	6.20		4.80	
30	0.18	15.70	39.40	88.50	21.90	36.30	32.40	15.25	13.90	6.20		4.80	
31		6.75		96.30	21.90		27.95		13.45	6.20		4.80	
TOTAL	23.24	148.88	670.14	641.70	822.80	4976.23	1727.75	701.20	536.50	299.80	181.20	173.60	10903.92 CMSDAY
MEAN	0.77	4.80	22.34	20.70	26.54	165.87	55.73	23.37	17.31	9.67	6.47	5.60	29.87 CMS
MAX	2.14	23.00	86.30	111.75	79.00	414.93	155.60	44.50	26.85	11.40	6.60	6.60	414.93 CMS
MIN	0.18	0.16	2.14	2.75	9.40	36.30	27.95	15.25	12.60	6.20	6.20	4.80	0.16 CMS
RUNOFF	2.008	12.863	57.900	55.443	71.090	429.946	149.277	60.584	46.354	25.903	15.656	14.999	942.021 MCM

MOMENTARY PEAK 646.75 CMS, AT 165.85 M (MSL), AT 12.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 3.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 71.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

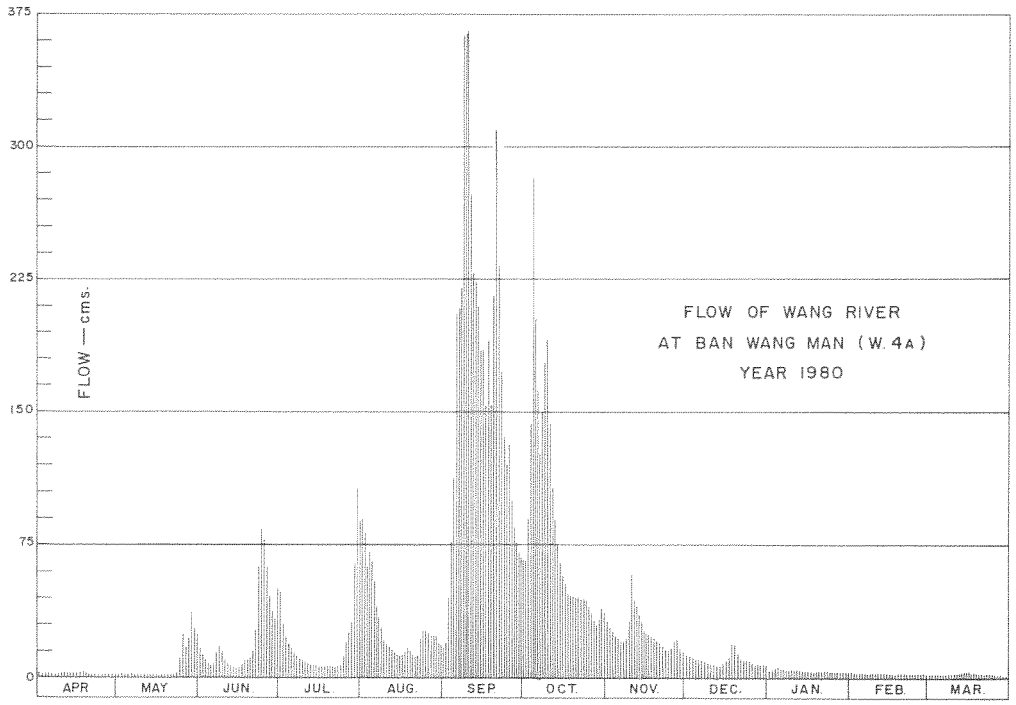
WANG RIVER AT BAN WANG MAN, TAK (W.4A)

LOCATION	LAT. 17°-12'-22" N., LONG. 99°-06'-08" E., ON RIGHT BANK ABOUT 200 METERS UPSTREAM FROM WANG MAN BRIDGE, AMPHOE SAM NGAO, TAK.
DRAINAGE AREA	10,507 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+130.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF WAT WANG MAN.
ELEVATION	+136.071 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1980. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 12,320 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	130.79	130.60	131.43	132.24	132.98	131.52	132.57	131.89	131.36	131.01	130.92	130.80	
2	130.78	130.60	131.32	131.91	132.84	131.62	132.97	131.80	131.33	131.00	130.89	130.83	
3	130.78	130.60	131.23	131.70	132.51	132.38	133.87	131.75	131.30	131.04	130.86	130.86	
4	130.77	130.58	131.15	131.57	132.65	133.36	135.08	131.70	131.28	131.07	130.86	130.86	
5	130.76	130.58	131.09	131.47	132.53	134.38	134.36	131.66	131.28	131.06	130.86	130.84	
6	130.76	130.54	131.15	131.40	132.25	134.44	133.80	131.64	131.27	131.03	130.86	130.80	
7	130.74	130.54	131.41	131.35	131.99	134.57	133.50	131.61	131.24	131.00	130.86	130.80	
8	130.73	130.56	131.50	131.30	131.81	135.66	134.06	131.61	131.22	131.00	130.86	130.80	
9	130.77	130.63	131.34	131.26	131.68	135.67	134.25	131.92	131.20	131.00	130.88	130.80	
10	130.81	130.58	131.23	131.23	131.57	135.44	133.85	132.43	131.19	131.00	130.88	130.80	
11	130.81	130.56	131.19	131.18	131.49	134.64	133.36	132.18	131.17	131.00	130.90	130.80	
12	130.80	130.56	131.15	131.16	131.45	134.61	133.01	132.09	131.16	130.97	130.90	130.80	
13	130.76	130.56	131.11	131.13	131.42	134.53	132.76	131.97	131.14	130.96	130.89	130.80	
14	130.76	130.55	131.08	131.12	131.39	134.19	132.59	131.87	131.11	130.95	130.89	130.93	
15	130.77	130.54	131.05	131.10	131.36	134.19	132.43	131.74	131.20	130.97	130.88	130.92	
16	130.77	130.53	131.12	131.09	131.34	133.83	132.34	131.72	131.24	130.97	130.88	130.91	
17	130.78	130.53	131.23	131.06	131.41	134.25	132.27	131.71	131.33	130.97	130.89	130.90	
18	130.78	130.53	131.26	131.05	131.47	133.84	132.20	131.68	131.54	130.95	130.89	130.88	
19	130.76	130.53	131.27	131.08	131.40	134.70	132.22	131.65	131.55	130.94	130.89	130.84	
20	130.74	130.55	131.32	131.10	131.38	135.28	132.19	131.62	131.40	130.93	130.89	130.82	
21	130.72	130.55	131.54	131.10	131.35	135.04	132.21	131.58	131.31	130.94	130.89	130.82	
22	130.70	130.57	132.02	131.09	131.32	134.12	132.16	131.50	131.26	130.93	130.88	130.80	
23	130.69	130.68	132.85	131.08	131.64	133.66	132.19	131.48	131.26	130.93	130.88	130.80	
24	130.73	131.37	132.90	131.14	131.77	133.41	132.17	131.47	131.25	130.93	130.86	130.78	
25	130.72	131.66	132.74	131.30	131.78	133.57	132.07	131.47	131.23	130.94	130.86	130.77	
26	130.69	131.47	132.51	131.60	131.72	133.24	131.99	131.59	131.19	130.94	130.86	130.75	
27	130.69	131.58	132.18	131.79	131.70	132.92	131.92	131.64	131.16	130.93	130.83	130.75	
28	130.66	131.99	131.99	131.93	131.70	132.71	131.82	131.50	131.15	130.94	130.80	130.75	
29	130.67	131.75	131.89	132.65	131.67	132.62	131.95	131.43	131.16	130.92		130.73	
30	130.64	131.79	132.27	133.20	131.58	132.60	132.05	131.40	131.16	130.92		130.73	
31		131.57		132.91	131.56		131.98		131.12	130.92		130.73	
MEAN	130.74	130.85	131.58	131.49	131.76	133.91	132.78	131.71	131.25	130.97	130.87	130.81	
MAX	130.81	131.99	132.90	133.20	132.98	135.67	135.08	132.43	131.55	131.07	130.92	130.93	135.67
MIN	130.64	130.53	131.05	131.05	131.32	131.52	131.82	131.40	131.11	130.92	130.80	130.73	130.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 135.68 M (MSL), AT 18.00 HOURS, ON SEP 9, 1980
ZERO GAGE AT BOTTOM ELEVATION 130.00 M (MSL), RIVER BED 130.00 M (MSL)
LEFT BANK ELEVATION 136.01 M (MSL)
RIGHT BANK ELEVATION 135.90 M (MSL), DRAINAGE AREA 10507 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.90	0.50	14.90	47.00	89.80	17.60	65.20	31.12	12.80	4.20	3.20	2.00	
2	1.80	0.50	11.60	31.95	81.40	28.43	89.20	27.67	11.90	4.00	2.90	2.30	
3	1.80	0.50	8.90	23.83	61.60	54.40	155.60	25.75	11.00	4.80	2.60	2.60	
4	1.70	0.40	7.00	19.10	70.00	116.20	282.40	23.83	10.40	5.40	2.60	2.60	
5	1.60	0.40	5.80	16.10	62.80	203.00	201.00	22.30	10.40	5.20	2.60	2.40	
6	1.60	0.20	7.00	14.00	47.50	209.00	150.00	21.53	10.10	4.60	2.60	2.00	
7	1.40	0.20	14.30	12.50	35.55	222.00	126.00	20.38	9.20	4.00	2.60	2.00	
8	1.30	0.30	17.00	11.00	28.05	365.60	172.40	20.38	8.60	4.00	2.60	2.00	
9	1.70	0.65	12.20	9.80	23.07	367.20	190.00	32.40	8.00	4.00	2.80	2.00	
10	2.10	0.40	8.90	8.90	19.10	332.00	154.00	57.15	7.80	4.00	2.80	2.00	
11	2.10	0.30	7.80	7.60	16.70	229.40	116.20	44.10	7.40	4.00	3.00	2.00	
12	2.00	0.30	7.00	7.20	15.50	226.10	91.70	40.05	7.20	3.70	3.00	2.00	
13	1.60	0.30	6.20	6.60	14.60	218.00	76.60	34.65	6.80	3.60	2.90	2.00	
14	1.60	0.25	5.60	6.40	13.70	184.10	66.40	30.35	6.20	3.50	2.90	3.30	
15	1.70	0.20	5.00	6.00	12.80	184.10	57.15	25.37	8.00	3.70	2.80	3.20	
16	1.70	0.15	6.40	5.80	12.20	152.40	52.20	24.60	9.20	3.70	2.80	3.10	
17	1.80	0.15	8.90	5.20	14.30	190.00	48.50	24.22	11.90	3.70	2.90	3.00	
18	1.80	0.15	9.80	5.00	16.10	153.20	45.00	23.07	18.20	3.50	2.90	2.80	
19	1.60	0.15	10.10	5.60	14.00	236.00	46.00	21.92	18.50	3.40	2.90	2.40	
20	1.40	0.25	11.60	6.00	13.40	309.20	44.55	20.77	14.00	3.30	2.90	2.20	
21	1.20	0.25	18.20	6.00	12.50	277.20	45.50	19.40	11.30	3.40	2.90	2.20	
22	1.00	0.35	36.90	5.80	11.60	177.80	43.20	17.00	9.80	3.30	2.80	2.00	
23	0.95	0.90	82.00	5.60	21.53	138.80	44.55	16.40	9.80	3.30	2.80	2.00	
24	1.30	13.10	85.00	6.80	26.52	119.70	43.65	16.10	9.50	3.30	2.60	1.80	
25	1.20	22.30	75.40	11.00	26.90	131.60	39.15	16.10	8.90	3.40	2.60	1.70	
26	0.95	16.10	61.60	20.00	24.60	107.80	35.55	19.70	7.80	3.40	2.60	1.50	
27	0.95	19.40	44.10	27.28	23.83	86.20	32.40	21.53	7.20	3.30	2.30	1.50	
28	0.80	35.55	35.55	32.85	23.83	73.60	28.43	17.00	7.00	3.40	2.00	1.50	
29	0.85	25.75	31.12	70.00	22.68	68.20	33.75	14.90	7.20	3.20		1.30	
30	0.70	27.28	48.50	105.00	19.40	67.00	38.25	14.00	7.20	3.20		1.30	
31		19.10		85.60	18.80		35.10		6.40	3.20		1.30	
TOTAL	44.10	186.33	704.37	631.51	894.36	5245.82	2649.63	743.74	299.70	116.70	76.90	66.00	11659.15 CMSDAY
MEAN	1.47	6.01	23.48	20.37	28.85	174.86	85.47	24.79	9.67	3.76	2.75	2.13	31.94 CMS
MAX	2.10	35.55	85.00	105.00	89.80	367.20	282.40	57.15	18.50	5.40	3.20	3.30	367.20 CMS
MIN	0.70	0.15	5.00	5.00	11.60	17.60	28.43	14.00	6.20	3.20	2.00	1.30	0.15 CMS
RUNOFF	3.810	16.099	60.858	54.562	77.273	453.239	228.928	64.259	25.894	10.083	6.644	5.702	1007.350 MCM

MOMENTARY PEAK 368.80 CMS, AT 135.68 M (MSL), AT 18.00 HOURS, ON SEP 9, 1980

RUNOFF YIELD 3.04 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

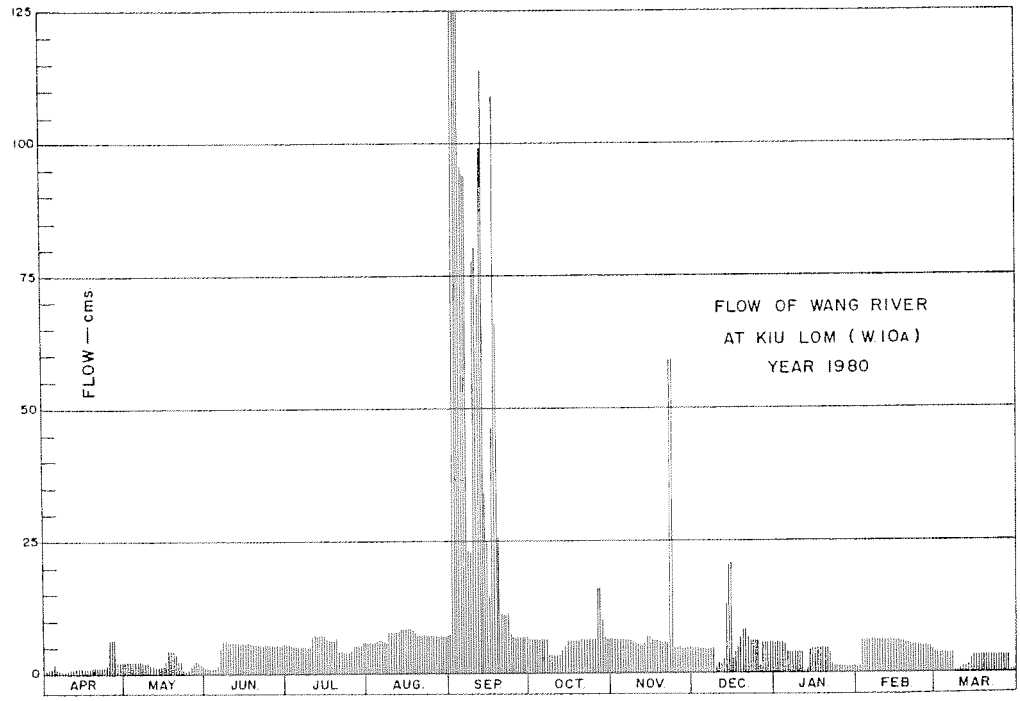
WANG RIVER AT KIU LOM, LAMPANG (W.10A)

LOCATION	LAT. 18°-31'-16" N., LONG. 99°-37'-52" E., ON LEFT BANK ABOUT 800 METERS DOWNSTREAM FROM KIU LOM DAMSITE, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	2,798 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+258.961 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF AUTOMATIC GAGE BUILDING.
ELEVATION	+265.511 M. (M.S.L.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 09.00, 12.00 AND 15.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW IS UNDER CONSTRUCTION OF KIU LOM DAM.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	258.84	258.93	258.88	259.03	259.04	259.09	259.06	259.06	259.01	259.04	258.89	258.98	
2	258.84	258.93	258.88	259.03	259.04	260.93	259.06	259.06	259.01	259.04	258.89	258.98	
3	258.84	258.93	258.88	259.03	259.04	261.16	259.06	259.05	259.01	259.04	259.05	258.98	
4	258.92	258.93	258.88	259.02	259.05	261.11	259.06	259.05	259.01	259.04	259.05	258.98	
5	258.88	258.93	258.89	259.02	259.05	260.59	259.06	259.05	259.01	258.99	259.05	258.98	
6	258.85	258.93	259.00	259.02	259.05	260.57	259.06	259.05	259.01	258.99	259.05	258.98	
7	258.79	258.93	259.05	259.02	259.05	260.56	259.06	259.05	259.01	258.99	259.05	258.98	
8	258.74	258.92	259.05	259.02	259.04	259.47	258.97	259.05	259.01	258.99	259.05	258.75	
9	258.78	258.92	259.04	259.02	259.10	260.36	258.97	259.03	258.81	258.99	259.05	258.75	
10	258.87	258.92	259.04	259.02	259.10	260.40	258.97	259.03	258.93	258.99	259.05	258.75	
11	258.87	258.91	259.04	259.08	259.10	260.29	258.97	259.03	258.89	258.99	259.05	258.90	
12	258.87	258.91	259.04	259.08	259.10	260.62	258.97	259.03	258.93	258.79	259.05	258.90	
13	258.37	258.91	259.04	259.08	259.12	260.79	259.01	259.03	259.26	258.86	259.05	258.90	
14	258.87	258.90	259.04	259.08	259.12	259.63	259.01	259.07	259.42	259.01	259.05	258.92	
15	258.87	258.90	259.04	259.07	259.12	259.30	259.05	259.06	259.43	259.01	259.05	258.97	
16	258.87	258.89	259.04	259.06	259.12	259.13	259.05	259.05	258.93	259.01	259.05	258.97	
17	258.87	259.00	259.04	259.06	259.12	260.73	259.05	259.05	259.00	259.01	259.04	258.97	
18	258.87	259.00	259.03	259.06	259.11	260.13	259.05	259.05	259.03	259.01	259.04	258.97	
19	258.90	259.00	259.03	259.06	259.08	259.55	259.05	259.04	259.11	259.01	259.04	258.97	
20	258.90	258.99	259.03	259.06	259.08	259.19	259.06	259.04	259.11	259.01	259.03	258.97	
21	258.90	258.94	259.03	258.99	259.08	259.19	259.06	259.04	259.11	259.01	259.03	258.97	
22	258.90	258.94	259.03	258.99	259.08	259.19	259.06	260.11	259.05	258.93	259.03	258.97	
23	258.90	258.80	259.03	258.99	259.08	259.19	259.06	260.11	259.05	258.89	259.02	258.97	
24	258.90	258.80	259.03	258.99	259.08	259.07	259.06	259.01	259.05	258.89	259.02	258.97	
25	259.06	258.80	259.03	259.01	259.08	259.07	259.06	259.01	259.05	258.89	259.02	258.97	
26	259.06	258.88	259.03	259.02	259.08	259.07	259.32	259.01	258.87	258.89	259.02	258.97	
27	259.06	258.93	259.03	259.03	259.08	259.07	259.32	259.01	259.04	258.89	259.02	258.97	
28	258.93	258.93	259.03	259.03	259.08	259.07	259.17	259.01	259.04	258.89	259.02	258.97	
29	258.93	258.94	259.03	259.04	259.08	259.07	259.06	259.01	259.04	258.89		258.78	
30	258.93	258.89	259.03	259.04	259.08	259.07	259.06	259.01	259.04	258.89		258.78	
31		258.87		259.04	259.08		259.06		259.04	258.89		258.97	
MEAN	258.89	258.92	259.01	259.03	259.08	259.82	259.06	259.11	259.04	258.96	259.03	258.93	
MAX	259.06	259.00	259.05	259.08	259.12	261.16	259.32	260.11	259.43	259.04	259.05	258.98	261.16
MIN	258.74	258.80	258.88	258.99	259.04	259.07	258.97	259.01	258.81	258.79	258.89	258.75	258.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 261.16 M (MSL), AT 15.00 HOURS, ON SEP 3, 1980
ZERO GAGE AT BOTTOM ELEVATION 258.96 M (MSL), RIVER BED 258.01 M (MSL)
LEFT BANK ELEVATION 270.32 M (MSL)
RIGHT BANK ELEVATION 270.27 M (MSL), DRAINAGE AREA 2798 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	2.07	0.93	5.35	5.70	7.45	6.40	6.40	4.65	5.70	1.02	3.66	
2	0.54	2.07	0.93	5.35	5.70	127.00	6.40	6.40	4.65	5.70	1.02	3.66	
3	0.54	2.07	0.93	5.35	5.70	150.00	6.40	6.05	4.65	5.70	6.05	3.66	
4	1.75	2.07	0.93	5.00	6.05	145.00	6.40	6.05	4.65	5.70	6.05	3.66	
5	0.93	2.07	1.02	5.00	6.05	95.64	6.40	6.05	4.65	3.98	6.05	3.66	
6	0.64	2.07	4.30	5.00	6.05	93.95	6.40	6.05	4.65	3.98	6.05	3.66	
7	0.14	2.07	6.05	5.00	6.05	93.10	6.40	6.05	4.65	3.98	6.05	3.66	
8	0.06	1.75	6.05	5.00	5.70	22.56	3.34	6.05	4.65	3.98	6.05	0.08	
9	0.13	1.75	5.70	5.00	7.80	76.79	3.34	5.35	0.26	3.98	6.05	0.08	
10	0.83	1.75	5.70	5.00	7.80	79.99	3.34	5.35	2.07	3.98	6.05	0.08	
11	0.83	1.44	5.70	7.10	7.80	71.30	3.34	5.35	1.02	3.98	6.05	1.12	
12	0.83	1.44	5.70	7.10	7.80	98.20	3.34	5.35	2.07	0.14	6.05	1.12	
13	0.83	1.44	5.70	7.10	8.50	113.55	4.65	5.35	13.58	0.74	6.05	1.12	
14	0.83	1.12	5.70	7.10	8.50	30.50	4.65	6.75	20.16	4.65	6.05	1.75	
15	0.83	1.12	5.70	6.75	8.50	15.10	6.05	6.40	20.64	4.65	6.05	3.34	
16	0.83	1.02	5.70	6.40	8.50	8.85	6.05	6.05	2.07	4.65	6.05	3.34	
17	0.83	4.30	5.70	6.40	8.50	107.85	6.05	6.05	4.30	4.65	5.70	3.34	
18	0.83	4.30	5.35	6.40	8.15	60.45	6.05	6.05	5.35	4.65	5.70	3.34	
19	1.12	4.30	5.35	6.40	7.10	26.50	6.05	5.70	8.15	4.65	5.70	3.34	
20	1.12	3.98	5.35	6.40	7.10	10.95	6.40	5.70	8.15	4.65	5.35	3.34	
21	1.12	2.39	5.35	3.98	7.10	10.95	6.40	5.70	8.15	4.65	5.35	3.34	
22	1.12	2.39	5.35	3.98	7.10	10.95	6.40	59.15	6.05	2.07	5.35	3.34	
23	1.12	0.16	5.35	3.98	7.10	10.95	6.40	59.15	6.05	1.02	5.00	3.34	
24	1.12	0.16	5.35	3.98	7.10	6.75	6.40	4.65	6.05	1.02	5.00	3.34	
25	6.40	0.16	5.35	4.65	7.10	6.75	6.40	4.65	6.05	1.02	5.00	3.34	
26	6.40	0.93	5.35	5.00	7.10	6.75	15.92	4.65	0.83	1.02	5.00	3.34	
27	6.40	2.07	5.35	5.35	7.10	6.75	15.92	4.65	5.70	1.02	5.00	3.34	
28	2.07	2.07	5.35	5.35	7.10	6.75	10.25	4.65	5.70	1.02	5.00	3.34	
29	2.07	2.39	5.35	5.70	7.10	6.75	6.40	4.65	5.70	1.02		0.13	
30	2.07	1.02	5.35	5.70	7.10	6.75	6.40	4.65	5.70	1.02		0.13	
31		0.83		5.70	7.10		6.40		5.70	1.02		3.34	
TOTAL	44.87	58.77	141.99	171.57	221.15	1514.83	200.74	275.10	186.70	99.99	149.89	81.33	3146.93 CMSDAY
MEAN	1.50	1.90	4.73	5.53	7.13	50.49	6.48	9.17	6.02	3.23	5.35	2.62	8.62 CMS
MAX	6.40	4.30	6.05	7.10	8.50	150.00	15.92	59.15	20.64	5.70	6.05	3.66	150.00 CMS
MIN	0.06	0.16	0.93	3.98	5.70	6.75	3.34	4.65	0.26	0.14	1.02	0.08	0.06 CMS
RUNOFF	3.877	5.078	12.268	14.824	19.107	130.881	17.344	23.769	16.131	8.639	12.950	7.027	271.894 MCM

MOMENTARY PEAK 150.00 CMS, AT 261.16 M (MSL), AT 15.00 HOURS, ON SEP 3, 1980

RUNOFF YIELD 3.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 53.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

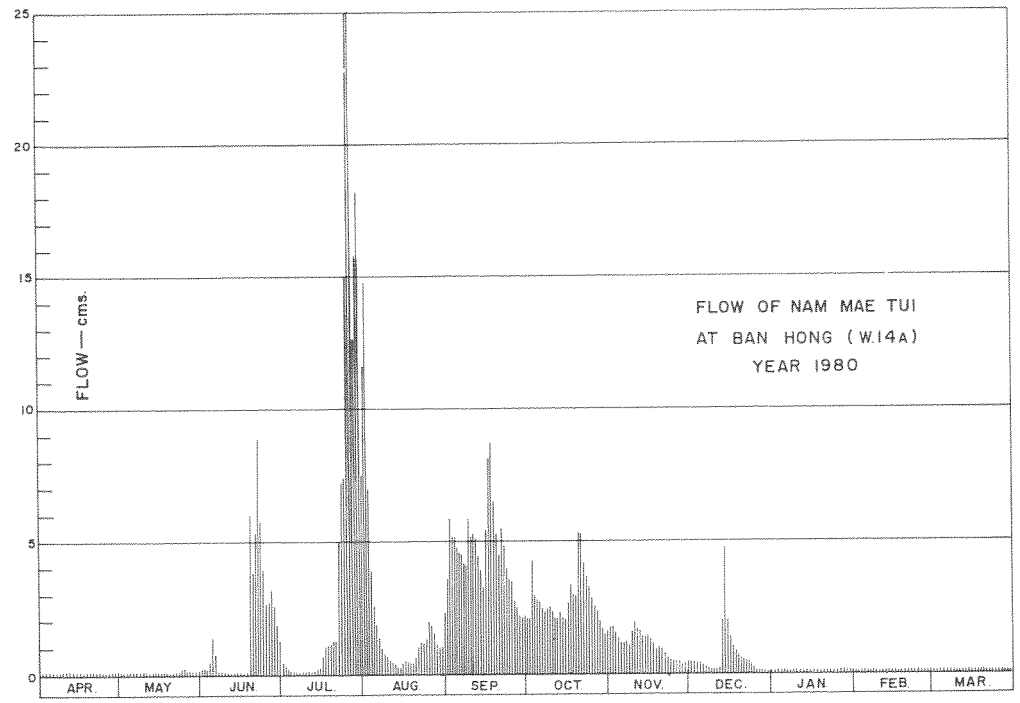
MAE TUI AT BAN HONG, LAMPANG (W.14A)

LOCATION	LAT. 18°-26'-17" N., LONG. 99°-27'-00" E., ON RIGHT BANK AT BAN HONG, TAMBON BAN AIEM, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	649 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+257.670 M.(M.S.L.)
BENCH MARK	B.M.=H.D.
LOCATION	ON RIGHT BANK ABOUT 7.00 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+261.325 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	257.55	257.53	257.89	257.98	259.08	258.35	258.22	258.19	257.95	257.80	257.76	257.72	
2	257.55	257.53	257.86	257.91	258.73	258.57	258.22	258.18	257.95	257.79	257.75	257.72	
3	257.56	257.53	257.84	257.87	258.52	258.52	258.44	258.16	257.94	257.79	257.75	257.72	
4	257.57	257.53	257.96	257.84	258.33	258.52	258.31	258.12	257.93	257.79	257.75	257.72	
5	257.57	257.52	258.13	257.82	258.22	258.48	258.30	258.11	257.92	257.79	257.75	257.72	
6	257.55	257.52	258.01	257.81	258.14	258.47	258.29	258.09	257.89	257.79	257.74	257.72	
7	257.55	257.52	257.80	257.80	258.09	258.45	258.25	258.11	257.88	257.79	257.74	257.72	
8	257.55	257.52	257.77	257.80	258.04	258.43	258.26	258.06	257.86	257.79	257.74	257.72	
9	257.55	257.52	257.77	257.79	258.00	258.57	258.28	258.16	257.85	257.78	257.75	257.72	
10	257.55	257.52	257.76	257.79	257.97	258.52	258.26	258.21	257.84	257.78	257.75	257.72	
11	257.55	257.52	257.75	257.79	257.95	258.53	258.24	258.18	257.84	257.78	257.76	257.72	
12	257.54	257.52	257.72	257.79	257.93	258.48	258.22	258.17	257.85	257.78	257.75	257.72	
13	257.54	257.52	257.71	257.80	257.91	258.43	258.25	258.14	258.25	257.78	257.75	257.72	
14	257.54	257.52	257.83	257.83	257.89	258.37	258.23	258.13	258.48	257.77	257.75	257.72	
15	257.55	257.53	257.81	257.90	257.89	258.32	258.21	258.14	258.24	257.77	257.74	257.72	
16	257.63	257.52	257.80	257.98	257.97	258.71	258.25	258.13	258.14	257.78	257.74	257.72	
17	257.59	257.52	257.79	258.08	257.96	258.77	258.36	258.12	258.09	257.78	257.73	257.71	
18	257.57	257.52	257.78	258.08	257.94	258.65	258.32	258.08	258.05	257.78	257.73	257.70	
19	257.57	257.52	258.58	258.10	257.93	258.54	258.32	258.04	258.02	257.77	257.73	257.70	
20	257.56	257.52	258.40	258.12	257.96	258.46	258.53	258.06	257.99	257.76	257.73	257.70	
21	257.55	257.60	258.60	258.11	258.07	258.55	258.53	258.04	257.97	257.76	257.73	257.70	
22	257.54	257.62	258.78	258.42	258.11	258.51	258.45	258.01	257.96	257.75	257.73	257.70	
23	257.54	257.74	258.54	258.67	258.08	258.42	258.39	257.99	257.94	257.75	257.73	257.70	
24	257.54	257.86	258.41	258.69	258.12	258.38	258.36	257.96	257.92	257.75	257.73	257.70	
25	257.54	257.88	258.29	258.90	258.21	258.36	258.31	257.94	257.87	257.76	257.73	257.70	
26	257.54	257.80	258.29	259.92	258.20	258.30	258.28	257.94	257.85	257.76	257.73	257.70	
27	257.54	257.79	258.35	259.03	258.16	258.27	258.25	257.94	257.83	257.76	257.73	257.70	
28	257.54	257.79	258.28	258.98	258.10	258.24	258.22	257.91	257.81	257.74	257.72	257.70	
29	257.53	257.72	258.19	259.23	258.06	258.23	258.17	257.90	257.81	257.73		257.70	
30	257.53	257.70	258.12	258.99	258.06	258.24	258.14	257.95	257.81	257.74		257.70	
31		257.68		258.69	258.22		258.15		257.81	257.75		257.70	
MEAN	257.55	257.60	258.06	258.24	258.12	258.45	258.29	258.07	257.95	257.77	257.74	257.71	
MAX	257.63	257.88	258.78	259.92	259.08	258.77	258.53	258.21	258.48	257.80	257.76	257.72	259.92
MIN	257.53	257.52	257.71	257.79	257.89	258.23	258.14	257.90	257.81	257.73	257.72	257.70	257.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 260.08 M (MSL), AT 9.00 HOURS, ON JUL 26, 1980
ZERO GAGE AT BOTTOM ELEVATION 257.67 M (MSL), RIVER BED 257.55 M (MSL)
LEFT BANK ELEVATION 260.30 M (MSL)
RIGHT BANK ELEVATION 260.64 M (MSL), DRAINAGE AREA 649 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.26	0.56	14.72	3.21	2.02	1.78	0.45	0.05	0.03	0.02	
2	0.00	0.00	0.19	0.32	8.08	5.80	2.02	1.71	0.45	0.05	0.03	0.02	
3	0.00	0.00	0.14	0.21	5.14	5.14	4.18	1.57	0.42	0.05	0.03	0.02	
4	0.00	0.00	0.49	0.14	3.01	5.14	2.80	1.29	0.38	0.05	0.03	0.02	
5	0.00	0.00	1.36	0.10	2.02	4.64	2.70	1.22	0.35	0.05	0.03	0.02	
6	0.00	0.00	0.68	0.07	1.43	4.52	2.61	1.10	0.26	0.05	0.03	0.02	
7	0.00	0.00	0.05	0.05	1.10	4.29	2.27	1.22	0.23	0.05	0.03	0.02	
8	0.00	0.00	0.04	0.05	0.84	4.06	2.36	0.94	0.19	0.05	0.03	0.02	
9	0.00	0.00	0.04	0.05	0.63	5.80	2.53	1.57	0.16	0.04	0.03	0.02	
10	0.00	0.00	0.03	0.05	0.52	5.14	2.36	1.94	0.14	0.04	0.03	0.02	
11	0.00	0.00	0.03	0.05	0.45	5.27	2.19	1.71	0.14	0.04	0.03	0.02	
12	0.00	0.00	0.02	0.05	0.38	4.64	2.02	1.64	0.16	0.04	0.03	0.02	
13	0.00	0.00	0.01	0.05	0.32	4.06	2.27	1.43	2.27	0.04	0.03	0.02	
14	0.00	0.00	0.12	0.12	0.26	3.41	2.11	1.36	4.64	0.04	0.03	0.02	
15	0.00	0.00	0.07	0.28	0.26	2.90	1.94	1.43	2.19	0.04	0.03	0.02	
16	0.00	0.00	0.05	0.56	0.52	7.76	2.27	1.36	1.43	0.04	0.03	0.02	
17	0.00	0.00	0.05	1.05	0.49	8.72	3.31	1.29	1.10	0.04	0.02	0.01	
18	0.00	0.00	0.04	1.05	0.42	6.90	2.90	1.05	0.89	0.04	0.02	0.01	
19	0.00	0.00	5.93	1.15	0.38	5.40	2.90	0.84	0.73	0.04	0.02	0.01	
20	0.00	0.00	3.72	1.29	0.49	4.41	5.27	0.94	0.59	0.03	0.02	0.01	
21	0.00	0.00	6.20	1.22	0.99	5.53	5.27	0.84	0.52	0.03	0.02	0.01	
22	0.00	0.00	8.88	3.95	1.22	5.00	4.29	0.68	0.49	0.03	0.02	0.01	
23	0.00	0.03	5.40	7.18	1.05	3.95	3.62	0.59	0.42	0.03	0.02	0.01	
24	0.00	0.19	3.84	7.46	1.29	3.52	3.31	0.49	0.35	0.03	0.02	0.01	
25	0.00	0.23	2.61	11.00	1.94	3.31	2.80	0.42	0.21	0.03	0.02	0.01	
26	0.00	0.05	2.61	36.74	1.85	2.70	2.53	0.42	0.16	0.03	0.02	0.01	
27	0.00	0.05	3.21	13.64	1.57	2.44	2.27	0.42	0.12	0.03	0.02	0.01	
28	0.00	0.05	2.53	12.60	1.15	2.19	2.02	0.32	0.07	0.03	0.02	0.01	
29	0.00	0.02	1.78	18.11	0.94	2.11	1.64	0.28	0.07	0.02		0.01	
30	0.00	0.01	1.29	12.80	0.94	2.19	1.43	0.45	0.07	0.03		0.01	
31		0.01		7.46	2.02		1.50		0.07	0.03		0.01	
TOTAL	0.00	0.64	51.67	139.41	56.42	134.15	83.71	32.30	19.72	1.19	0.72	0.47	520.40 CMSDAY
MEAN	0.00	0.02	1.72	4.50	1.82	4.47	2.70	1.08	0.64	0.04	0.03	0.02	1.43 CMS
MAX	0.00	0.23	8.88	36.74	14.72	8.72	5.27	1.94	4.64	0.05	0.03	0.02	36.74 CMS
MIN	0.00	0.00	0.01	0.05	0.26	2.11	1.43	0.28	0.07	0.02	0.02	0.01	0.00 CMS
RUNOFF	0.000	0.055	4.464	12.045	4.875	11.591	7.233	2.791	1.704	0.103	0.062	0.041	44.962 MCM

MOMENTARY PEAK 41.50 CMS, AT 260.08 M (MSL), AT 9.00 HOURS, ON JUL 26, 1980

RUNOFF YIELD 2.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 63.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

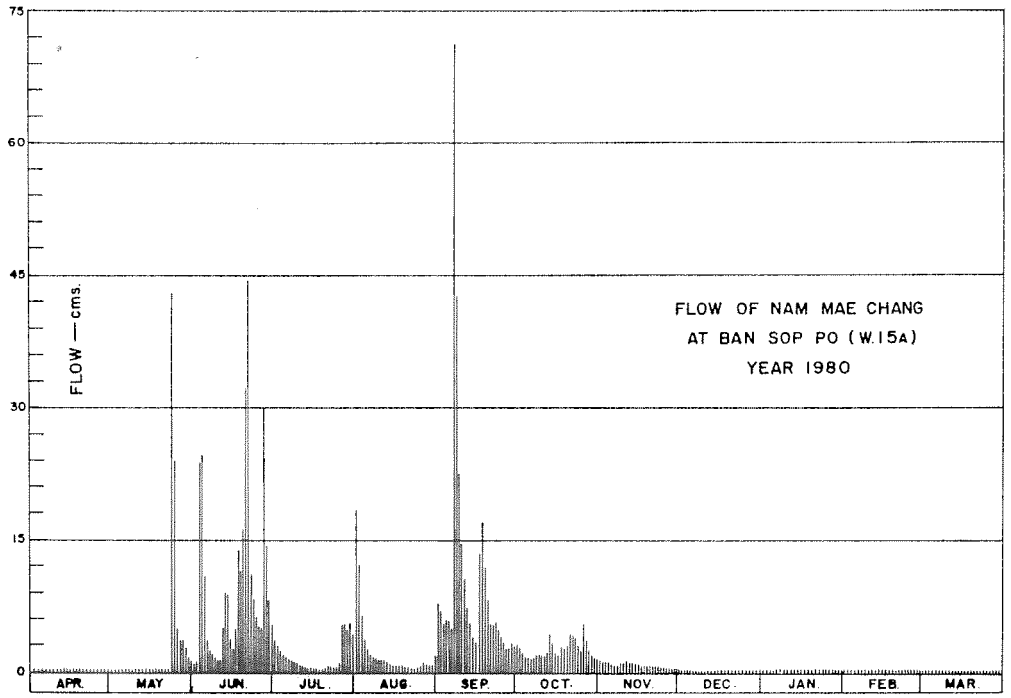
NAM MAE CHANG AT BAN SOP PO, LAMPANG (W.15A)

LOCATION	LAT. 18°-08'-08" N., LONG. 99°-34'-58" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS UPSTREAM FROM BAN SOP PO, AMPHOE MAE THA, LAMPANG.
DRAINAGE AREA	1,119 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+240.120 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE CAMP OF W.15 STATION.
ELEVATION	+251.685 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1974, 1980
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1974, 1980
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 148 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	240.11	240.01	240.76	241.13	241.84	241.39	241.04	240.84	240.63	240.50	240.37	239.89	
2	240.07	240.01	240.74	241.05	241.71	241.32	240.98	240.81	240.64	240.53	240.36	239.88	
3	240.08	240.01	242.00	241.00	241.40	241.23	240.93	240.80	240.63	240.53	240.33	239.90	
4	240.07	240.00	242.04	240.96	241.17	241.26	240.91	240.79	240.62	240.50	240.30	239.89	
5	240.06	239.99	241.53	240.91	241.04	241.26	240.89	240.77	240.60	240.48	240.29	239.89	
6	240.07	239.99	241.13	240.87	240.97	241.20	240.87	240.76	240.59	240.48	240.29	239.89	
7	240.08	239.99	240.99	240.85	240.91	242.94	240.87	240.74	240.58	240.48	240.29	239.86	
8	240.08	239.97	240.92	240.83	240.87	243.04	240.93	240.74	240.57	240.49	240.28	239.85	
9	240.08	239.97	240.86	240.81	240.84	242.02	240.93	240.81	240.56	240.50	240.23	239.89	
10	240.09	239.96	240.82	240.79	240.83	241.70	240.90	240.80	240.55	240.51	240.22	239.78	
11	240.09	239.97	240.78	240.77	240.82	241.56	240.89	240.83	240.55	240.47	240.17	239.78	
12	240.08	239.96	241.21	240.74	240.83	241.39	240.94	240.81	240.55	240.46	240.10	239.80	
13	240.07	239.96	241.43	240.71	240.79	241.25	241.14	240.81	240.55	240.46	240.09	239.83	
14	240.08	239.95	241.36	240.70	240.77	241.14	241.05	240.80	240.56	240.47	240.05	239.85	
15	240.07	239.95	241.06	240.69	240.74	241.06	240.94	240.80	240.54	240.48	239.99	239.83	
16	240.07	239.94	240.95	240.68	240.72	241.31	240.88	240.76	240.53	240.48	240.01	239.79	
17	240.07	239.93	241.24	240.67	240.73	241.65	241.03	240.75	240.53	240.46	240.06	239.84	
18	240.07	239.93	241.65	240.66	240.72	241.79	241.01	240.75	240.54	240.44	240.03	239.92	
19	240.07	239.93	241.55	240.64	240.76	241.55	240.99	240.75	240.53	240.46	239.95	239.88	
20	240.06	239.92	242.17	240.67	240.71	241.38	241.04	240.74	240.52	240.46	239.90	239.83	
21	240.06	239.96	242.54	240.68	240.69	241.22	241.14	240.73	240.51	240.44	239.92	239.76	
22	240.05	239.99	241.98	240.75	240.65	241.22	241.11	240.72	240.52	240.44	239.94	239.78	
23	240.05	240.03	241.53	240.70	240.65	241.23	241.10	240.72	240.50	240.43	239.94	239.79	
24	240.03	242.51	241.33	240.69	240.71	241.16	241.02	240.71	240.50	240.43	239.92	239.80	
25	240.03	241.76	241.23	240.69	240.71	241.09	240.96	240.70	240.50	240.42	239.90	239.82	
26	240.03	241.15	241.19	240.75	240.72	241.04	241.22	240.70	240.50	240.42	239.89	239.82	
27	240.02	241.08	242.19	241.22	240.80	240.99	241.05	240.68	240.49	240.39	239.89	239.81	
28	240.02	241.09	241.94	241.21	240.76	241.00	240.96	240.67	240.48	240.38	239.89	239.80	
29	240.01	240.96	241.44	241.18	240.73	241.07	240.89	240.66	240.48	240.42		239.80	
30	240.01	240.88	241.22	241.24	240.72	241.01	240.86	240.67	240.49	240.40		239.82	
31		240.82		241.13	240.87		240.85		240.49	240.39		239.81	
MEAN	240.06	240.31	241.39	240.85	240.88	241.42	240.98	240.75	240.54	240.46	240.09	239.83	
MAX	240.11	242.51	242.54	241.24	241.84	243.04	241.22	240.84	240.64	240.53	240.37	239.92	243.04
MIN	240.01	239.92	240.74	240.64	240.65	240.99	240.85	240.66	240.48	240.38	239.89	239.76	239.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 244.24 M (MSL), AT 20.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 240.12 M (MSL), RIVER BED 239.35 M (MSL)
LEFT BANK ELEVATION 251.59 M (MSL)
RIGHT BANK ELEVATION 251.20 M (MSL), DRAINAGE AREA 1119 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.86	4.16	18.48	8.07	3.08	1.38	0.22	0.00	0.00	0.00	
2	0.00	0.00	0.74	3.20	15.05	6.85	2.44	1.17	0.26	0.03	0.00	0.00	
3	0.00	0.00	23.50	2.60	8.25	5.45	2.04	1.10	0.22	0.03	0.00	0.00	
4	0.00	0.00	24.80	2.28	4.64	5.90	1.88	1.04	0.18	0.00	0.00	0.00	
5	0.00	0.00	10.89	1.88	3.08	5.90	1.73	0.92	0.10	0.00	0.00	0.00	
6	0.00	0.00	4.16	1.59	2.36	5.00	1.59	0.86	0.09	0.00	0.00	0.00	
7	0.00	0.00	2.52	1.45	1.88	64.96	1.59	0.74	0.08	0.00	0.00	0.00	
8	0.00	0.00	1.96	1.31	1.59	71.00	2.04	0.74	0.07	0.00	0.00	0.00	
9	0.00	0.00	1.52	1.17	1.38	24.15	2.04	1.17	0.06	0.00	0.00	0.00	
10	0.00	0.00	1.24	1.04	1.31	14.80	1.80	1.10	0.05	0.01	0.00	0.00	
11	0.00	0.00	0.98	0.92	1.24	11.54	1.73	1.31	0.05	0.00	0.00	0.00	
12	0.00	0.00	5.15	0.74	1.31	8.07	2.12	1.17	0.05	0.00	0.00	0.00	
13	0.00	0.00	8.85	0.56	1.04	5.75	4.28	1.17	0.05	0.00	0.00	0.00	
14	0.00	0.00	7.55	0.50	0.92	4.28	3.20	1.10	0.06	0.00	0.00	0.00	
15	0.00	0.00	3.32	0.46	0.74	3.32	2.12	1.10	0.04	0.00	0.00	0.00	
16	0.00	0.00	2.20	0.42	0.62	6.67	1.66	0.86	0.03	0.00	0.00	0.00	
17	0.00	0.00	5.60	0.38	0.68	13.60	2.96	0.80	0.03	0.00	0.00	0.00	
18	0.00	0.00	13.60	0.34	0.62	17.05	2.72	0.80	0.04	0.00	0.00	0.00	
19	0.00	0.00	11.32	0.26	0.86	11.32	2.52	0.80	0.03	0.00	0.00	0.00	
20	0.00	0.00	29.20	0.38	0.56	7.90	3.08	0.74	0.02	0.00	0.00	0.00	
21	0.00	0.00	44.30	0.42	0.46	5.30	4.28	0.68	0.01	0.00	0.00	0.00	
22	0.00	0.00	22.85	0.80	0.30	5.30	3.92	0.62	0.02	0.00	0.00	0.00	
23	0.00	0.00	10.89	0.50	0.30	5.45	3.80	0.62	0.00	0.00	0.00	0.00	
24	0.00	42.95	7.02	0.46	0.56	4.52	2.84	0.56	0.00	0.00	0.00	0.00	
25	0.00	16.30	5.45	0.46	0.56	3.68	2.28	0.50	0.00	0.00	0.00	0.00	
26	0.00	4.40	4.88	0.80	0.62	3.08	5.30	0.50	0.00	0.00	0.00	0.00	
27	0.00	3.56	29.90	5.30	1.10	2.52	3.20	0.42	0.00	0.00	0.00	0.00	
28	0.00	3.56	21.55	5.15	0.86	2.60	2.28	0.38	0.00	0.00	0.00	0.00	
29	0.00	2.28	9.05	4.76	0.68	3.44	1.73	0.34	0.00	0.00		0.00	
30	0.00	1.66	5.30	5.60	0.62	2.72	1.52	0.38	0.00	0.00		0.00	
31		1.24		4.16	1.59		1.45		0.00	0.00		0.00	
TOTAL	0.00	75.95	321.15	54.05	74.26	340.19	79.22	25.07	1.76	0.07	0.00	0.00	971.72 CMSDAY
MEAN	0.00	2.45	10.70	1.74	2.40	11.34	2.56	0.84	0.06	0.00	0.00	0.00	2.66 CMS
MAX	0.00	42.95	44.30	5.60	18.48	71.00	5.30	1.38	0.26	0.03	0.00	0.00	71.00 CMS
MIN	0.00	0.00	0.74	0.26	0.30	2.52	1.45	0.34	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	6.562	27.747	4.670	6.416	29.392	6.845	2.166	0.152	0.006	0.000	0.000	83.956 MCM

MOMENTARY PEAK 159.90 CMS, AT 244.24 M (MSL), AT 20.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 2.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 142.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

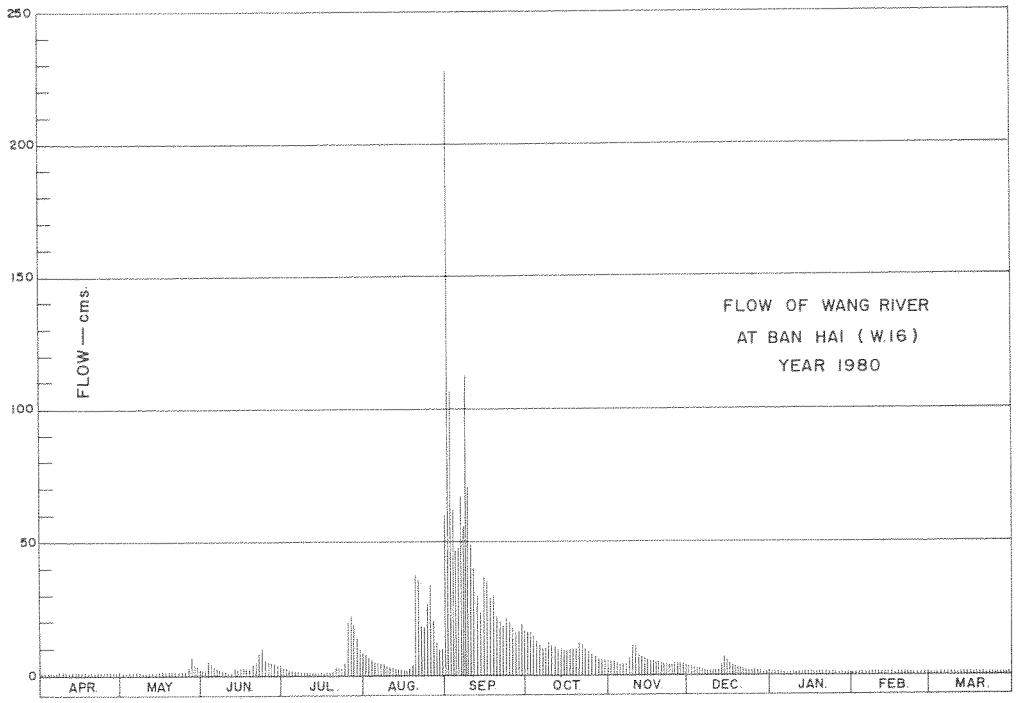
WANG RIVER AT BAN HAI, LAMPANG (W.16)

LOCATION	LAT. 18°-48'-12" N., LONG. 99°-38'-45" E., ON RIGHT BANK AT BAN HAI, AMPHOE CHAE HOM, LAMPANG.
DRAINAGE AREA	1,284 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-M.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+7.676 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 172 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.28	0.54	0.66	0.93	3.87	1.26	0.81	0.67	0.49	0.39	0.28	
2	0.27	0.27	0.51	0.62	0.89	2.83	1.27	0.80	0.67	0.49	0.39	0.29	
3	0.27	0.27	0.78	0.57	0.85	2.21	1.20	0.80	0.64	0.48	0.38	0.29	
4	0.28	0.28	0.70	0.54	0.80	1.96	1.17	0.78	0.62	0.49	0.37	0.29	
5	0.36	0.28	0.64	0.53	0.75	2.00	1.11	0.78	0.61	0.49	0.37	0.29	
6	0.35	0.28	0.65	0.52	0.73	2.31	1.06	0.75	0.60	0.48	0.36	0.28	
7	0.33	0.32	0.59	0.50	0.75	2.13	1.02	0.75	0.59	0.48	0.35	0.28	
8	0.37	0.31	0.57	0.48	0.73	2.88	1.03	0.76	0.59	0.47	0.35	0.28	
9	0.40	0.30	0.50	0.47	0.69	2.36	1.12	1.07	0.56	0.46	0.36	0.28	
10	0.36	0.30	0.48	0.46	0.67	1.94	1.08	1.09	0.56	0.46	0.36	0.28	
11	0.35	0.29	0.45	0.46	0.65	1.82	1.04	1.02	0.55	0.45	0.35	0.28	
12	0.34	0.28	0.45	0.45	0.62	1.69	1.01	0.93	0.56	0.45	0.34	0.27	
13	0.33	0.27	0.64	0.45	0.62	1.53	1.03	0.88	0.70	0.45	0.33	0.27	
14	0.33	0.26	0.56	0.44	0.60	1.44	1.02	0.85	0.88	0.44	0.33	0.27	
15	0.32	0.24	0.62	0.44	0.58	1.78	0.98	0.83	0.82	0.43	0.33	0.27	
16	0.32	0.22	0.64	0.44	0.56	1.74	0.98	0.81	0.75	0.44	0.33	0.27	
17	0.37	0.21	0.63	0.43	0.56	1.59	1.01	0.80	0.70	0.43	0.33	0.27	
18	0.40	0.23	0.59	0.44	0.62	1.62	1.05	0.78	0.67	0.44	0.32	0.27	
19	0.48	0.27	0.59	0.44	0.75	1.53	1.00	0.76	0.63	0.43	0.31	0.27	
20	0.46	0.29	0.78	0.44	1.78	1.41	1.09	0.76	0.60	0.42	0.31	0.27	
21	0.43	0.30	0.74	0.65	1.74	1.36	1.12	0.74	0.57	0.41	0.31	0.25	
22	0.39	0.27	0.95	0.63	1.34	1.31	1.05	0.73	0.57	0.41	0.31	0.25	
23	0.35	0.28	1.01	0.60	1.31	1.44	1.00	0.72	0.55	0.40	0.31	0.25	
24	0.34	0.37	0.82	0.65	1.40	1.37	0.95	0.72	0.54	0.41	0.31	0.25	
25	0.34	0.47	0.76	1.36	1.72	1.36	0.92	0.72	0.53	0.40	0.31	0.25	
26	0.34	0.50	0.77	1.37	1.68	1.28	0.89	0.75	0.52	0.40	0.30	0.25	
27	0.33	0.88	0.76	1.46	1.35	1.24	0.86	0.77	0.51	0.41	0.30	0.25	
28	0.31	0.68	0.74	1.34	1.13	1.26	0.84	0.74	0.51	0.41	0.29	0.24	
29	0.29	0.69	0.69	1.22	1.02	1.34	0.82	0.71	0.50	0.40		0.24	
30	0.29	0.64	0.69	1.06	0.96	1.29	0.80	0.69	0.50	0.39		0.24	
31		0.58		0.95	1.94		0.80		0.49	0.39		0.24	
MEAN	0.35	0.36	0.66	0.68	0.99	1.80	1.02	0.80	0.61	0.44	0.34	0.27	
MAX	0.48	0.88	1.01	1.46	1.94	3.87	1.27	1.09	0.88	0.49	0.39	0.29	3.87
MIN	0.27	0.21	0.45	0.43	0.56	1.24	0.80	0.69	0.49	0.39	0.29	0.24	0.21

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.44 M (A.D.), AT 9.00 HOURS, ON SEP 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.05 M (A.D.)
LEFT BANK ELEVATION 6.92 M (A.D.)
RIGHT BANK ELEVATION 7.58 M (A.D.), DRAINAGE AREA 1284 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.21	1.40	2.90	7.60	226.95	15.80	5.20	3.05	0.96	0.57	0.21	
2	0.18	0.18	1.10	2.30	6.80	107.70	16.10	5.00	3.05	0.96	0.57	0.23	
3	0.18	0.18	4.70	1.70	6.00	60.15	14.00	5.00	2.60	0.92	0.53	0.23	
4	0.21	0.21	3.50	1.40	5.00	45.30	13.10	4.70	2.30	0.96	0.50	0.23	
5	0.46	0.21	2.60	1.30	4.25	47.50	11.30	4.70	2.15	0.96	0.50	0.23	
6	0.43	0.21	2.75	1.20	3.95	66.70	10.20	4.25	2.00	0.92	0.46	0.21	
7	0.36	0.33	1.90	1.00	4.25	55.30	9.40	4.25	1.90	0.92	0.43	0.21	
8	0.50	0.29	1.70	0.92	3.95	112.20	9.60	4.70	1.90	0.88	0.43	0.21	
9	0.60	0.26	1.00	0.88	3.35	70.20	11.60	10.40	1.60	0.84	0.46	0.21	
10	0.46	0.26	0.92	0.84	3.05	44.20	10.60	10.80	1.60	0.84	0.46	0.21	
11	0.43	0.23	0.80	0.84	2.75	38.00	9.80	9.40	1.50	0.80	0.43	0.21	
12	0.40	0.21	0.80	0.80	2.30	32.05	9.20	7.60	1.60	0.80	0.40	0.18	
13	0.36	0.18	2.60	0.80	2.30	25.20	9.60	6.60	3.50	0.80	0.36	0.18	
14	0.36	0.16	1.60	0.76	2.00	21.90	9.40	6.00	6.60	0.76	0.36	0.18	
15	0.33	0.10	2.30	0.76	1.80	36.10	8.60	5.60	5.40	0.72	0.36	0.18	
16	0.33	0.05	2.60	0.76	1.60	34.30	8.60	5.20	4.25	0.76	0.36	0.18	
17	0.50	0.03	2.45	0.72	1.60	27.60	9.20	5.00	3.50	0.72	0.36	0.18	
18	0.60	0.08	1.90	0.76	2.30	28.90	10.00	4.70	3.05	0.76	0.33	0.18	
19	0.92	0.18	1.90	0.76	4.25	25.20	9.00	4.40	2.45	0.72	0.29	0.18	
20	0.84	0.23	4.70	0.76	36.10	20.85	10.80	4.40	2.00	0.68	0.29	0.18	
21	0.72	0.26	4.10	2.75	34.30	19.10	11.60	4.10	1.70	0.64	0.29	0.13	
22	0.57	0.18	8.00	2.45	18.40	17.35	10.00	3.95	1.70	0.64	0.29	0.13	
23	0.43	0.21	9.20	2.00	17.35	21.90	9.00	3.80	1.50	0.60	0.29	0.13	
24	0.40	0.50	5.40	2.75	20.50	19.45	8.00	3.80	1.40	0.64	0.29	0.13	
25	0.40	0.88	4.40	19.10	33.40	19.10	7.40	3.80	1.30	0.60	0.29	0.13	
26	0.40	1.00	4.55	19.45	31.60	16.40	6.80	4.25	1.20	0.60	0.26	0.13	
27	0.36	6.60	4.40	22.60	18.75	15.20	6.20	4.55	1.10	0.64	0.26	0.13	
28	0.29	3.20	4.10	18.40	11.90	15.80	5.80	4.10	1.10	0.64	0.23	0.10	
29	0.23	3.35	3.35	14.60	9.40	18.40	5.40	3.65	1.00	0.60		0.10	
30	0.23	2.60	3.35	10.20	8.20	16.70	5.00	3.35	1.00	0.57		0.10	
31		1.80		8.00	44.20		5.00		0.96	0.57		0.10	
TOTAL	12.66	24.37	94.07	144.46	353.20	1305.70	296.10	157.25	69.96	23.42	10.65	5.32	2497.16 CMSDAY
MEAN	0.42	0.79	3.14	4.66	11.39	43.52	9.55	5.24	2.26	0.76	0.38	0.17	6.84 CMS
MAX	0.92	6.60	9.20	22.60	44.20	226.95	16.10	10.80	6.60	0.96	0.57	0.23	226.95 CMS
MIN	0.18	0.03	0.80	0.72	1.60	15.20	5.00	3.35	0.96	0.57	0.23	0.10	0.03 CMS
RUNOFF	1.094	2.106	8.128	12.481	30.516	112.812	25.583	13.586	6.045	2.023	0.920	0.460	215.754 MCM

MOMENTARY PEAK 309.00 CMS, AT 4.44 M (A.D), AT 9.00 HOURS, ON SEP 1, 1980

RUNOFF YIELD 5.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 240.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WANG RIVER BASIN

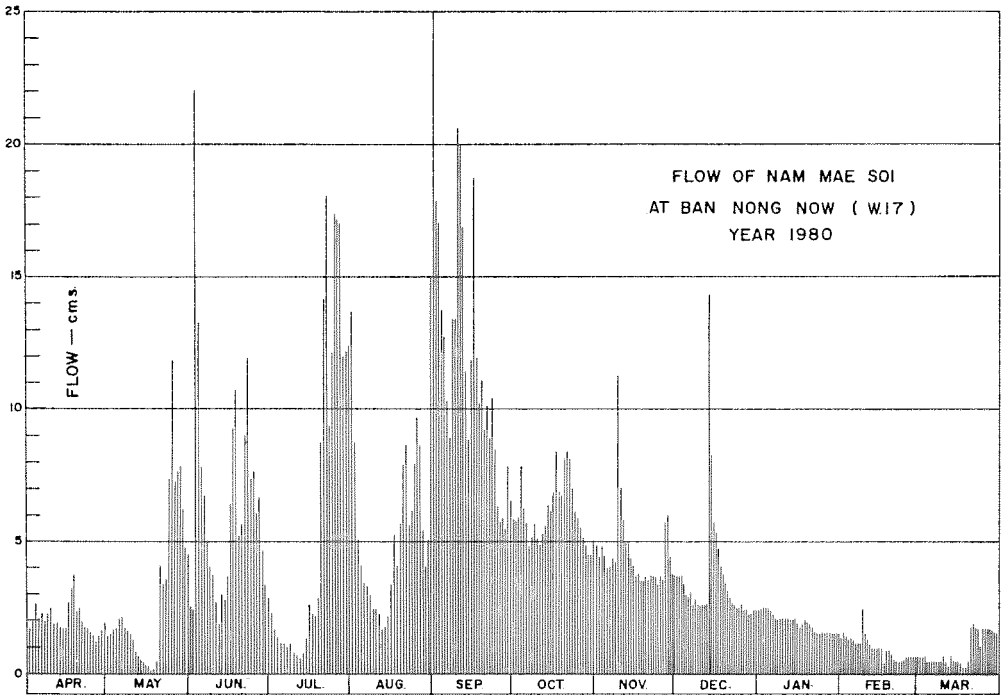
NAM MAE SOI AT BAN NONG NOW, LAMPANG (W.17)

LOCATION	LAT. 18°-43'-16" N., LONG 99°-34'-12" E., ON RIGHT BANK AT THE BRIDGE OF LAMPANG-WANG NUA ROAD, BAN NONG NOW, TAMBON CHAE HOM, AMPHOE CHAE HOM, LAMPANG.
DRAINAGE AREA	619 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+292.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 20 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+295.874 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	292.55	292.53	292.60	292.60	293.04	293.52	292.74	292.70	292.65	292.59	292.53	292.49	
2	292.56	292.54	292.59	292.57	292.86	293.16	292.74	292.68	292.65	292.59	292.54	292.49	
3	292.60	292.55	293.28	292.55	292.76	293.13	292.75	292.70	292.65	292.59	292.53	292.49	
4	292.58	292.55	293.02	292.53	292.68	293.02	292.83	292.68	292.63	292.59	292.53	292.48	
5	292.57	292.57	292.83	292.52	292.65	292.99	292.75	292.66	292.61	292.59	292.53	292.48	
6	292.58	292.57	292.81	292.52	292.63	292.90	292.74	292.66	292.62	292.58	292.52	292.48	
7	292.56	292.55	292.72	292.51	292.63	292.87	292.70	292.68	292.60	292.57	292.52	292.48	
8	292.58	292.55	292.67	292.51	292.61	293.03	292.72	292.67	292.61	292.57	292.52	292.48	
9	292.59	292.54	292.65	292.52	292.59	293.03	292.74	292.96	292.60	292.57	292.59	292.48	
10	292.56	292.53	292.63	292.50	292.59	293.24	292.71	292.82	292.60	292.57	292.53	292.49	
11	292.56	292.50	292.58	292.50	292.58	293.22	292.70	292.74	292.60	292.57	292.52	292.48	
12	292.56	292.49	292.55	292.49	292.55	293.09	292.72	292.70	292.60	292.57	292.51	292.46	
13	292.55	292.49	292.62	292.49	292.55	292.96	292.74	292.71	293.06	292.57	292.51	292.49	
14	292.55	292.48	292.60	292.50	292.56	292.87	292.77	292.67	292.87	292.57	292.51	292.48	
15	292.55	292.47	292.65	292.53	292.59	292.98	292.76	292.66	292.74	292.57	292.51	292.48	
16	292.61	292.47	292.79	292.60	292.64	293.19	292.81	292.65	292.72	292.55	292.50	292.48	
17	292.63	292.46	292.89	292.58	292.72	292.98	292.85	292.65	292.68	292.56	292.47	292.47	
18	292.65	292.46	292.94	292.57	292.66	292.92	292.79	292.64	292.66	292.57	292.50	292.46	
19	292.58	292.47	292.71	292.60	292.69	292.95	292.78	292.65	292.64	292.56	292.50	292.47	
20	292.59	292.67	292.72	292.63	292.83	292.88	292.84	292.64	292.63	292.56	292.49	292.55	
21	292.56	292.66	292.80	293.05	292.86	292.92	292.85	292.65	292.61	292.55	292.48	292.56	
22	292.55	292.63	292.94	293.12	292.79	292.87	292.84	292.65	292.60	292.54	292.48	292.55	
23	292.55	292.65	292.98	293.17	292.73	292.93	292.80	292.65	292.60	292.54	292.48	292.55	
24	292.54	292.85	292.81	292.89	292.79	292.84	292.76	292.63	292.59	292.54	292.48	292.51	
25	292.54	292.98	292.82	293.05	292.90	292.77	292.75	292.65	292.60	292.54	292.49	292.55	
26	292.52	292.80	292.75	293.15	292.86	292.74	292.73	292.64	292.59	292.54	292.49	292.55	
27	292.52	292.82	292.78	293.14	292.77	292.75	292.71	292.74	292.59	292.54	292.49	292.55	
28	292.55	292.83	292.72	292.98	292.71	292.73	292.70	292.75	292.58	292.54	292.49	292.55	
29	292.54	292.73	292.65	292.99	292.66	292.83	292.68	292.67	292.58	292.54		292.54	
30	292.56	292.70	292.62	292.99	292.72	292.78	292.69	292.65	292.59	292.54		292.54	
31		292.64		293.00	293.19		292.71		292.59	292.54		292.54	
MEAN	292.57	292.60	292.76	292.72	292.72	292.97	292.75	292.69	292.64	292.56	292.51	292.50	
MAX	292.65	292.98	293.28	293.17	293.19	293.52	292.85	292.96	293.06	292.59	292.59	292.56	293.52
MIN	292.52	292.46	292.55	292.49	292.55	292.73	292.68	292.63	292.58	292.54	292.47	292.46	292.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 293.65 M (MSL), AT 6.00 HOURS, ON SEP 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 292.00 M (MSL), RIVER BED 292.26 M (MSL)
LEFT BANK ELEVATION 296.71 M (MSL)
RIGHT BANK ELEVATION 296.71 M (MSL), DRAINAGE AREA 619 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.70	1.34	2.60	2.60	13.68	31.66	5.72	4.80	3.70	2.42	1.34	0.64	
2	1.88	1.52	2.42	2.06	8.60	17.64	5.72	4.36	3.70	2.42	1.52	0.64	
3	2.60	1.70	22.04	1.70	6.18	16.62	5.95	4.80	3.70	2.42	1.34	0.64	
4	2.24	1.70	13.04	1.34	4.36	13.04	7.85	4.36	3.26	2.42	1.34	0.48	
5	2.06	2.06	7.85	1.16	3.70	12.12	5.95	3.92	2.82	2.42	1.34	0.48	
6	2.24	2.06	7.35	1.16	3.26	9.60	5.72	3.92	3.04	2.24	1.16	0.48	
7	1.88	1.70	5.26	0.98	3.26	8.85	4.80	4.36	2.60	2.06	1.16	0.48	
8	2.24	1.70	4.14	0.98	2.82	13.36	5.26	4.14	2.82	2.06	1.16	0.48	
9	2.42	1.52	3.70	1.16	2.42	13.36	5.72	11.28	2.60	2.06	2.42	0.48	
10	1.88	1.34	3.26	0.80	2.42	20.52	5.03	7.60	2.60	2.06	1.34	0.64	
11	1.88	0.80	2.24	0.80	2.24	19.76	4.80	5.72	2.60	2.06	1.16	0.48	
12	1.88	0.64	1.70	0.64	1.70	15.28	5.26	4.80	2.60	2.06	0.98	0.16	
13	1.70	0.64	3.04	0.64	1.70	11.28	5.72	5.03	14.32	2.06	0.98	0.64	
14	1.70	0.48	2.60	0.80	1.88	8.85	6.41	4.14	8.85	2.06	0.98	0.48	
15	1.70	0.32	3.70	1.34	2.42	11.84	6.18	3.92	5.72	2.06	0.98	0.48	
16	2.82	0.32	6.87	2.60	3.48	18.66	7.35	3.70	5.26	1.70	0.80	0.48	
17	3.26	0.16	9.35	2.24	5.26	11.84	8.35	3.70	4.36	1.88	0.32	0.32	
18	3.70	0.16	10.72	2.06	3.92	10.16	6.87	3.48	3.92	2.06	0.80	0.16	
19	2.24	0.32	5.03	2.60	4.58	11.00	6.64	3.70	3.48	1.88	0.80	0.32	
20	2.42	4.14	5.26	3.26	7.85	9.10	8.10	3.48	3.26	1.88	0.64	1.70	
21	1.88	3.92	7.10	14.00	8.60	10.16	8.35	3.70	2.82	1.70	0.48	1.88	
22	1.70	3.26	10.72	16.28	6.87	8.85	8.10	3.70	2.60	1.52	0.48	1.70	
23	1.70	3.70	11.84	17.98	5.49	10.44	7.10	3.70	2.60	1.52	0.48	1.70	
24	1.52	8.35	7.35	9.35	6.87	8.10	6.18	3.26	2.42	1.52	0.48	0.98	
25	1.52	11.84	7.60	14.00	9.60	6.41	5.95	3.70	2.60	1.52	0.64	1.70	
26	1.16	7.10	5.95	17.30	8.60	5.72	5.49	3.48	2.42	1.52	0.64	1.70	
27	1.16	7.60	6.64	16.96	6.41	5.95	5.03	5.72	2.42	1.52	0.64	1.70	
28	1.70	7.85	5.26	11.84	5.03	5.49	4.80	5.95	2.24	1.52	0.64	1.70	
29	1.52	5.49	3.70	12.12	3.92	7.85	4.36	4.14	2.24	1.52		1.52	
30	1.88	4.80	3.04	12.12	5.26	6.64	4.58	3.70	2.42	1.52		1.52	
31		3.48		12.40	18.66		5.03		2.42	1.52		1.52	
TOTAL	60.18	92.01	191.37	185.27	171.04	360.15	188.37	136.26	112.41	59.18	27.04	28.28	1611.56 CMSDAY
MEAN	2.01	2.97	6.38	5.98	5.52	12.00	6.08	4.54	3.63	1.91	0.97	0.91	4.42 CMS
MAX	3.70	11.84	22.04	17.98	18.66	31.66	8.35	11.28	14.32	2.42	2.42	1.88	31.66 CMS
MIN	1.16	0.16	1.70	0.64	1.70	5.49	4.36	3.26	2.24	1.52	0.32	0.16	0.16 CMS
RUNOFF	5.200	7.950	16.534	16.007	14.778	31.117	16.275	11.773	9.712	5.113	2.336	2.443	139.238 MCM

MOMENTARY PEAK 37.30 CMS, AT 293.65 M (MSL), AT 6.00 HOURS, ON SEP 1, 1980

RUNOFF YIELD 7.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 60.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

YOM RIVER AT BAN NAM KHONG, PHRAE (Y.1C)

LOCATION — LAT. 18°-07'-59" N., LONG. 100°-07'-39" E., ON RIGHT BANK ABOUT 5 METERS DOWNSTREAM FROM PHATHANA PHAK NUA 8 TH. BRIDGE AT TAMBON PA MAT, AMPHOE MUANG, PHRAE.

DRAINAGE AREA — 7,624 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +143.50 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — +153.908 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

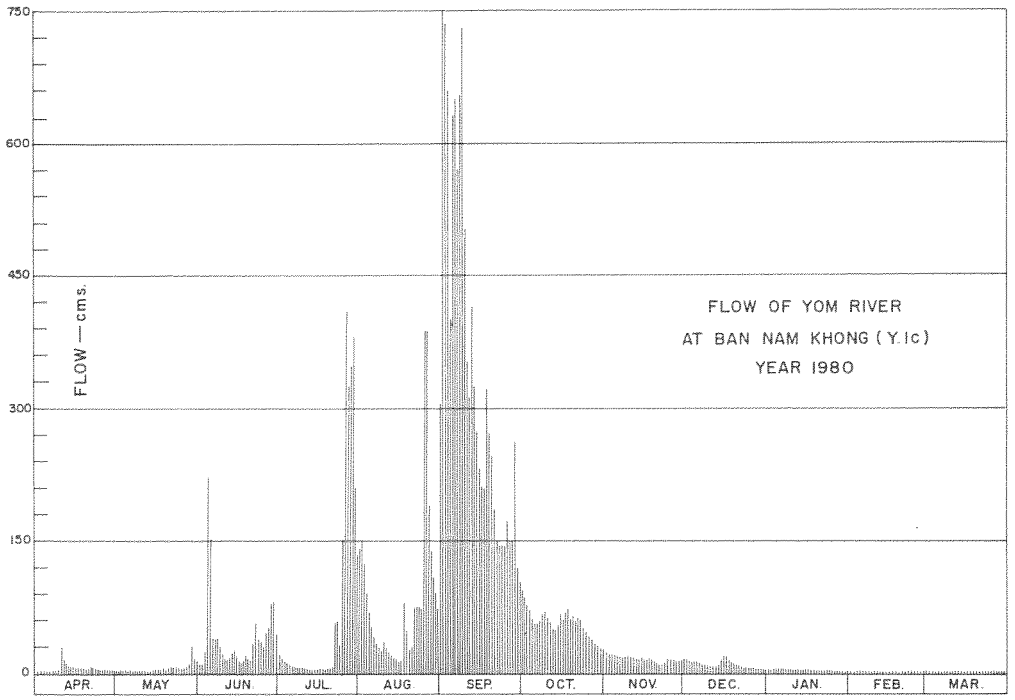
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 53 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	144.34	144.39	144.60	144.84	146.18	150.11	145.57	144.85	144.68	144.44	144.31	144.25	
2	144.34	144.40	144.56	144.73	146.14	149.96	145.52	144.83	144.65	144.44	144.30	144.25	
3	144.34	144.40	144.88	144.67	145.72	149.50	145.41	144.81	144.63	144.43	144.30	144.24	
4	144.35	144.41	146.74	144.61	145.51	147.97	145.33	144.81	144.63	144.41	144.30	144.24	
5	144.36	144.38	146.31	144.56	145.24	149.34	145.26	144.78	144.63	144.40	144.30	144.24	
6	144.35	144.38	145.05	144.53	145.10	149.47	145.24	144.78	144.60	144.40	144.29	144.24	
7	144.34	144.37	145.06	144.51	144.98	148.99	145.25	144.76	144.57	144.38	144.29	144.24	
8	144.38	144.37	145.05	144.49	144.90	149.92	145.37	144.75	144.55	144.38	144.29	144.24	
9	144.37	144.36	144.85	144.47	144.86	149.55	145.41	144.77	144.55	144.39	144.29	144.24	
10	144.95	144.38	144.74	144.46	144.98	147.65	145.34	144.75	144.54	144.38	144.32	144.24	
11	144.69	144.37	144.69	144.49	144.86	147.37	145.26	144.74	144.51	144.38	144.30	144.23	
12	144.61	144.36	144.66	144.43	144.80	148.05	145.19	144.72	144.50	144.37	144.29	144.23	
13	144.52	144.36	144.80	144.42	144.75	147.31	145.17	144.71	144.50	144.37	144.29	144.23	
14	144.55	144.36	144.91	144.43	144.71	146.92	145.18	144.72	144.52	144.37	144.29	144.23	
15	144.50	144.44	144.78	144.43	144.66	146.67	145.36	144.68	144.72	144.37	144.28	144.23	
16	144.49	144.46	144.65	144.44	144.63	146.64	145.29	144.67	144.77	144.37	144.28	144.23	
17	144.51	144.43	144.59	144.44	145.51	147.45	145.41	144.71	144.69	144.37	144.28	144.22	
18	144.47	144.45	144.71	144.44	145.19	147.19	145.43	144.67	144.63	144.36	144.26	144.22	
19	144.46	144.42	144.77	144.43	144.88	147.01	145.31	144.64	144.57	144.36	144.26	144.22	
20	144.44	144.39	144.67	144.46	144.91	146.51	145.35	144.61	144.55	144.36	144.26	144.22	
21	144.53	144.52	144.93	144.50	145.44	146.17	145.26	144.60	144.52	144.36	144.26	144.22	
22	144.47	144.52	145.27	145.25	145.48	146.11	145.33	144.60	144.50	144.36	144.26	144.22	
23	144.44	144.49	145.04	145.30	145.48	146.11	145.25	144.61	144.50	144.34	144.26	144.22	
24	144.43	144.46	145.00	144.91	145.41	146.10	145.16	144.63	144.50	144.34	144.25	144.21	
25	144.42	144.46	144.94	146.56	147.88	146.36	145.11	144.66	144.47	144.33	144.25	144.22	
26	144.42	144.45	145.16	147.25	147.88	146.13	145.04	144.67	144.47	144.33	144.25	144.22	
27	144.42	144.50	145.18	148.03	146.33	146.13	145.01	144.67	144.48	144.33	144.25	144.23	
28	144.42	144.54	145.48	147.47	145.89	147.04	144.96	144.67	144.46	144.33	144.25	144.23	
29	144.41	144.97	145.52	147.85	145.64	145.94	144.93	144.66	144.45	144.32		144.22	
30	144.40	144.71	145.12	146.63	145.44	145.73	144.90	144.66	144.44	144.31		144.22	
31		144.67		146.02	147.46		144.87		144.44	144.31		144.22	
MEAN	144.46	144.46	145.02	145.16	145.51	147.51	145.24	144.71	144.56	144.37	144.28	144.23	
MAX	144.95	144.97	146.74	148.03	147.88	150.11	145.57	144.85	144.77	144.44	144.32	144.25	150.11
MIN	144.34	144.36	144.56	144.42	144.63	145.73	144.87	144.60	144.44	144.31	144.25	144.21	144.21

ANNUAL MAX MOMENTARY GAGE HEIGHT 150.24 M (MSL), AT 17.00 HOURS, ON SEP 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 143.50 M (MSL), RIVER BED 143.79 M (MSL)
LEFT BANK ELEVATION 150.60 M (MSL)
RIGHT BANK ELEVATION 154.33 M (MSL), DRAINAGE AREA 7624 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.2	3.7	11.0	23.4	150.8	763.8	86.0	24.0	15.0	5.2	1.3	0.8	
2	2.2	4.0	9.4	17.5	146.4	736.8	81.0	22.8	13.5	5.2	1.0	0.8	
3	2.2	4.0	25.8	14.5	101.0	656.0	70.0	21.6	12.5	4.9	1.0	0.7	
4	2.5	4.3	221.2	11.5	80.0	399.5	62.7	21.6	12.5	4.3	1.0	0.7	
5	2.8	3.4	166.2	9.4	54.6	628.0	56.4	20.0	12.5	4.0	1.0	0.7	
6	2.5	3.4	39.0	8.2	43.0	650.7	54.6	20.0	11.0	4.0	0.9	0.7	
7	2.2	3.1	39.8	7.4	33.4	567.3	55.5	19.0	9.8	3.4	0.9	0.7	
8	3.4	3.1	39.0	6.7	27.0	729.6	66.3	18.5	9.0	3.4	0.9	0.7	
9	3.1	2.8	24.0	6.1	24.6	664.8	70.0	19.5	9.0	3.7	0.9	0.7	
10	31.0	3.4	18.0	5.8	33.4	351.3	63.6	18.5	8.6	3.4	1.6	0.7	
11	15.5	3.1	15.5	6.7	24.6	309.5	56.4	18.0	7.4	3.4	1.0	0.6	
12	11.5	2.8	14.0	4.9	21.0	412.0	50.2	17.0	7.0	3.1	0.9	0.6	
13	7.8	2.8	21.0	4.6	18.5	300.5	48.6	16.5	7.0	3.1	0.9	0.6	
14	9.0	2.8	27.8	4.9	16.5	244.8	49.4	17.0	7.8	3.1	0.9	0.6	
15	7.0	5.2	20.0	4.9	14.0	212.1	65.4	15.0	17.0	3.1	0.9	0.6	
16	6.7	5.8	13.5	5.2	12.5	208.2	59.1	14.5	19.5	3.1	0.9	0.6	
17	7.4	4.9	10.6	5.2	80.0	321.5	70.0	16.5	15.5	3.1	0.9	0.6	
18	6.1	5.5	16.5	5.2	50.2	282.6	72.0	14.5	12.5	2.8	0.8	0.6	
19	5.8	4.6	19.5	4.9	25.8	257.4	60.9	13.0	9.8	2.8	0.8	0.6	
20	5.2	3.7	14.5	5.8	27.8	191.3	64.5	11.5	9.0	2.8	0.8	0.6	
21	8.2	7.8	29.4	7.0	73.0	149.7	56.4	11.0	7.8	2.8	0.8	0.6	
22	6.1	7.8	57.3	55.5	77.0	143.1	62.7	11.0	7.0	2.8	0.8	0.6	
23	5.2	6.7	38.2	60.0	77.0	143.1	55.5	11.5	7.0	2.2	0.8	0.6	
24	4.9	5.8	35.0	27.8	70.0	142.0	47.8	12.5	7.0	2.2	0.8	0.6	
25	4.6	5.8	30.2	197.8	386.0	172.2	43.8	14.0	6.1	1.9	0.8	0.6	
26	4.6	5.5	47.8	291.5	386.0	145.3	38.2	14.5	6.1	1.9	0.8	0.6	
27	4.6	7.0	49.4	408.8	168.6	145.3	35.8	14.5	6.4	1.9	0.8	0.6	
28	4.6	8.6	77.0	324.5	118.9	261.6	31.8	14.5	5.8	1.9	0.8	0.6	
29	4.3	32.6	81.0	381.5	93.0	124.4	29.4	14.0	5.5	1.6		0.6	
30	4.0	16.5	44.6	206.9	73.0	102.0	27.0	14.0	5.2	1.3		0.6	
31		14.5		133.2	323.0		25.2		5.2	1.3		0.6	
TOTAL	187.2	195.0	1256.2	2257.3	2830.6	10416.6	1716.2	490.5	295.0	93.7	25.7	19.8	19783.8 CMSDAY
MEAN	6.2	6.3	41.9	72.8	91.3	347.2	55.4	16.4	9.5	3.0	0.9	0.6	54.2 CMS
MAX	31.0	32.6	221.2	408.8	386.0	763.8	86.0	24.0	19.5	5.2	1.6	0.8	763.8 CMS
MIN	2.2	2.8	9.4	4.6	12.5	102.0	25.2	11.0	5.2	1.3	0.8	0.6	0.6 CMS
RUNOFF	16.17	16.85	108.54	195.03	244.56	899.99	148.28	42.38	25.49	8.10	2.22	1.71	1709.32 MCM

MOMENTARY PEAK 787.20 CMS, AT 150.24 M (MSL), AT 17.00 HOURS, ON SEP 1, 1980

RUNOFF YIELD 7.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 103.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

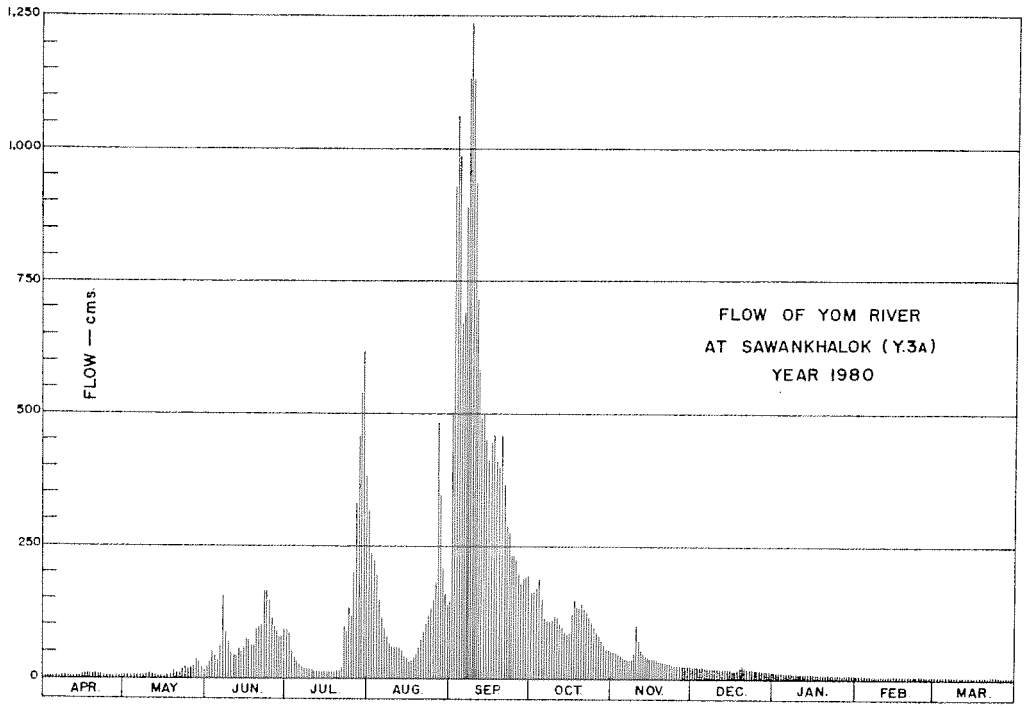
YOM RIVER AT SAWANKHALOK, SUKHOTHAI (Y.3A)

LOCATION	LAT. 17°-18'-29" N., LONG. 99°-49'-43" E., ON RIGHT BANK ABOUT 100 METERS DOWNSTREAM FROM SAWANKHALOK BRIDGE, AMPHOE SAWANKHALOK, SUKHOTHAI.
DRAINAGE AREA	13,583 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+51.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT SIDE OF AUTOMATIC GAGE BUILDING.
ELEVATION	+60.559 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1957 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 48 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.39	51.45	52.12	53.24	55.36	54.12	54.08	52.66	52.15	51.81	51.59	51.47	
2	51.39	51.43	52.43	53.13	54.87	58.97	54.08	52.62	52.13	51.79	51.59	51.46	
3	51.39	51.42	52.68	52.77	54.68	60.09	54.09	52.59	52.13	51.77	51.58	51.45	
4	51.40	51.43	52.44	52.50	54.40	59.65	54.37	52.51	52.11	51.77	51.57	51.45	
5	51.39	51.43	52.21	52.33	53.89	57.96	54.03	52.47	52.09	51.76	51.56	51.45	
6	51.39	51.43	52.75	52.23	53.52	58.16	53.68	52.43	52.08	51.74	51.56	51.45	
7	51.39	51.43	53.98	52.15	53.23	60.12	53.46	52.41	52.06	51.73	51.55	51.45	
8	51.39	51.44	53.36	52.09	53.02	60.98	53.45	52.39	52.04	51.73	51.55	51.44	
9	51.39	51.44	52.82	52.03	52.89	60.84	53.50	52.63	52.02	51.72	51.55	51.44	
10	51.38	51.63	52.60	51.97	52.80	60.17	53.55	53.33	52.00	51.71	51.55	51.44	
11	51.37	51.75	52.53	51.94	52.76	58.04	53.50	52.85	51.97	51.71	51.54	51.44	
12	51.37	51.60	52.49	51.89	52.80	56.85	53.39	52.65	51.97	51.71	51.53	51.44	
13	51.36	51.52	52.72	51.86	52.73	56.90	53.28	52.55	51.98	51.69	51.53	51.44	
14	51.36	51.48	52.60	51.89	52.60	56.60	53.17	52.49	51.96	51.68	51.53	51.43	
15	51.56	51.45	52.71	51.87	52.49	56.28	53.15	52.46	51.95	51.67	51.52	51.43	
16	51.75	51.44	53.00	51.82	52.39	56.51	53.13	52.44	51.93	51.66	51.52	51.43	
17	51.68	51.43	52.95	51.84	52.37	56.61	53.69	52.41	51.92	51.66	51.52	51.43	
18	51.64	51.42	52.83	51.86	52.49	56.28	53.90	52.37	52.03	51.66	51.51	51.43	
19	51.64	51.63	52.79	51.93	52.65	56.21	53.71	52.32	52.12	51.65	51.51	51.42	
20	51.61	51.81	53.32	51.85	53.17	56.62	53.84	52.31	52.06	51.65	51.50	51.42	
21	51.59	51.61	53.26	51.93	53.04	56.17	53.75	52.29	52.00	51.65	51.49	51.42	
22	51.55	51.73	53.90	52.08	53.25	55.32	53.72	52.24	51.95	51.64	51.49	51.41	
23	51.54	52.01	54.15	53.27	53.52	55.14	53.51	52.20	51.92	51.64	51.49	51.40	
24	51.51	52.10	53.98	53.14	53.71	54.77	53.40	52.19	51.88	51.64	51.49	51.39	
25	51.49	51.99	53.69	53.70	53.83	54.78	53.26	52.19	51.86	51.63	51.48	51.39	
26	51.47	52.08	53.38	53.50	54.23	54.54	53.12	52.20	51.85	51.62	51.48	51.39	
27	51.46	52.10	53.20	55.24	56.79	54.24	53.04	52.19	51.85	51.61	51.47	51.39	
28	51.51	52.41	53.07	56.49	55.76	54.37	52.98	52.18	51.85	51.60	51.47	51.39	
29	51.50	52.25	53.08	57.19	54.57	54.40	52.83	52.17	51.83	51.60		51.38	
30	51.46	52.04	53.20	57.63	53.99	54.43	52.72	52.16	51.83	51.60		51.38	
31		51.91		56.61	53.78		52.67		51.82	51.59		51.38	
MEAN	51.48	51.69	53.01	53.03	53.60	56.87	53.49	52.43	51.98	51.68	51.53	51.42	
MAX	51.75	52.41	54.15	57.63	56.79	60.98	54.37	53.33	52.15	51.81	51.59	51.47	60.98
MIN	51.36	51.42	52.12	51.82	52.37	54.12	52.67	52.16	51.82	51.59	51.47	51.38	51.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 61.00 M (MSL), AT 16.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 51.00 M (MSL), RIVER BED 50.59 M (MSL)
LEFT BANK ELEVATION 61.06 M (MSL)
RIGHT BANK ELEVATION 60.86 M (MSL), DRAINAGE AREA 13583 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.9	3.0	21.0	90.2	291.6	163.8	160.2	49.6	22.5	11.3	5.8	3.4	
2	1.9	2.6	36.5	82.1	237.7	844.6	160.2	47.2	21.5	10.7	5.8	3.2	
3	1.9	2.4	50.8	56.9	217.0	1057.0	161.1	45.4	21.5	10.1	5.6	3.0	
4	2.0	2.6	37.0	40.0	189.0	972.1	186.3	40.6	20.5	10.1	5.4	3.0	
5	1.9	2.6	25.5	31.5	143.1	668.2	155.7	38.5	19.7	9.8	5.2	3.0	
6	1.9	2.6	55.5	26.5	112.6	702.2	125.4	36.5	19.4	9.2	5.2	3.0	
7	1.9	2.6	151.2	22.5	89.4	1063.0	107.8	35.5	18.8	8.9	5.0	3.0	
8	1.9	2.8	99.8	19.7	74.4	1235.0	107.0	34.5	18.2	8.9	5.0	2.8	
9	1.9	2.8	60.4	17.9	65.3	1207.0	111.0	47.8	17.6	8.6	5.0	2.8	
10	1.8	6.6	46.0	16.1	59.0	1073.0	115.0	97.4	17.0	8.3	5.0	2.8	
11	1.7	9.5	41.8	15.2	56.2	681.8	111.0	62.5	16.1	8.3	4.8	2.8	
12	1.7	6.0	39.5	13.7	59.0	491.5	102.2	49.0	16.1	8.3	4.6	2.8	
13	1.6	4.4	53.4	12.8	54.1	499.0	93.4	43.0	16.4	7.8	4.6	2.8	
14	1.6	3.6	46.0	13.7	46.0	454.0	84.9	39.5	15.8	7.6	4.6	2.6	
15	5.2	3.0	52.7	13.1	39.5	409.2	83.5	38.0	15.5	7.4	4.4	2.6	
16	9.5	2.8	73.0	11.6	34.5	441.4	82.1	37.0	14.9	7.2	4.4	2.6	
17	7.6	2.6	69.5	12.2	33.5	455.5	126.2	35.5	14.6	7.2	4.4	2.6	
18	6.8	2.4	61.1	12.8	39.5	409.2	144.0	33.5	17.9	7.2	4.2	2.6	
19	6.8	6.6	58.3	14.9	49.0	399.4	127.8	31.0	21.0	7.0	4.2	2.4	
20	6.2	11.3	96.6	12.5	84.9	457.0	138.6	30.5	18.8	7.0	4.0	2.4	
21	5.8	6.2	91.8	14.9	75.8	393.8	131.0	29.5	17.0	7.0	3.8	2.4	
22	5.0	8.9	144.0	19.4	91.0	287.2	128.6	27.0	15.5	6.8	3.8	2.2	
23	4.8	17.3	166.5	92.6	112.6	267.4	111.8	25.0	14.6	6.8	3.8	2.0	
24	4.2	20.0	151.2	82.8	127.8	226.7	103.0	24.5	13.4	6.8	3.8	1.9	
25	3.8	16.7	126.2	127.0	137.7	227.8	91.8	24.5	12.8	6.6	3.6	1.9	
26	3.4	19.4	101.4	111.0	173.7	203.0	81.4	25.0	12.5	6.4	3.6	1.9	
27	3.2	20.0	87.0	278.4	482.5	174.6	75.8	24.5	12.5	6.2	3.4	1.9	
28	4.2	35.5	77.9	438.6	339.8	186.3	71.6	24.0	12.5	6.0	3.4	1.9	
29	4.0	27.5	78.6	542.5	206.0	189.0	61.1	23.5	11.9	6.0		1.8	
30	3.2	18.2	87.0	612.8	152.1	192.0	53.4	23.0	11.9	6.0		1.8	
31		14.3		455.5	133.4		50.2		11.6	5.8		1.8	
TOTAL	109.3	286.8	2287.2	3311.4	4007.7	16031.7	3443.1	1123.0	510.0	241.3	126.4	77.7	31555.6 CMSDAY
MEAN	3.6	9.3	76.2	106.8	129.3	534.4	111.1	37.4	16.5	7.8	4.5	2.5	86.5 CMS
MAX	9.5	35.5	166.5	612.8	482.5	1235.0	186.3	97.4	22.5	11.3	5.8	3.4	1235.0 CMS
MIN	1.6	2.4	21.0	11.6	33.5	163.8	50.2	23.0	11.6	5.8	3.4	1.8	1.6 CMS
RUNOFF	9.44	24.78	197.61	286.10	346.26	1385.14	297.48	97.03	44.06	20.85	10.92	6.71	2726.40 MCM

MOMENTARY PEAK 1239.00 CMS, AT 61.00 M (MSL), AT 16.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 6.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 91.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

YOM RIVER AT BAN KAENG LUANG, SUKHOTHAI (Y.6)

LOCATION — LAT. 17°-26'-03" N., LONG. 99°-47'-32" E., ON LEFT BANK ABOUT 150 METERS UPSTREAM FROM KAENG LUANG, AMPHOE SI SATCHANALAI, SUKHOTHAI.

DRAINAGE AREA — 12,658 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +59.00 M. (M.S.L.)

BENCH MARK — B.M.-Y.6

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +68.928 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1952 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1952 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1952 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

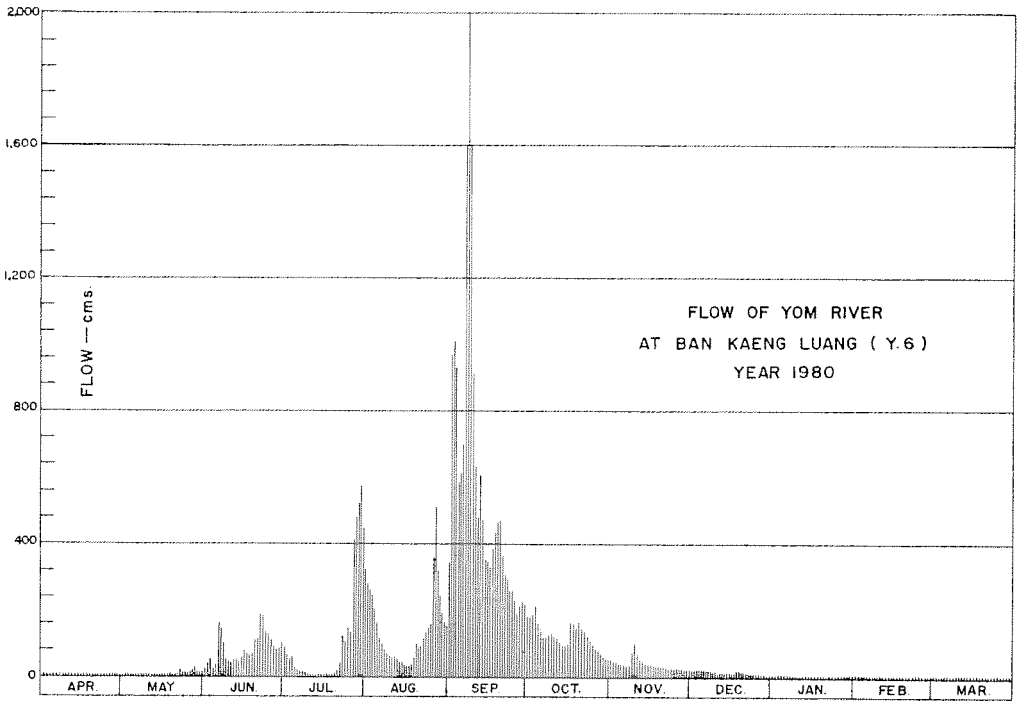
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 122 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW DIVERTED FOR IRRIGATION OF ABOUT 24,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	59.39	59.46	60.33	61.20	62.53	62.22	61.80	60.73	60.32	59.90	59.69	59.54	
2	59.39	59.44	60.53	61.02	62.30	65.08	61.80	60.70	60.30	59.89	59.68	59.53	
3	59.38	59.43	60.79	60.74	62.22	65.23	61.84	60.66	60.30	59.87	59.68	59.53	
4	59.39	59.42	60.39	60.84	61.96	64.82	62.00	60.60	60.28	59.87	59.67	59.52	
5	59.39	59.42	60.33	60.41	61.62	63.78	61.68	60.57	60.26	59.86	59.66	59.52	
6	59.39	59.41	61.20	60.31	61.36	64.21	61.46	60.52	60.24	59.84	59.66	59.52	
7	59.39	59.46	61.68	60.24	61.14	66.54	61.32	60.49	60.21	59.84	59.65	59.51	
8	59.39	59.48	61.18	60.18	60.99	68.39	61.35	60.47	60.19	59.83	59.65	59.50	
9	59.38	59.48	60.76	60.13	60.91	66.52	61.41	60.97	60.18	59.82	59.66	59.49	
10	59.38	59.93	60.65	60.08	60.86	65.24	61.43	61.22	60.15	59.81	59.65	59.49	
11	59.37	59.73	60.59	60.04	60.83	63.79	61.38	60.87	60.12	59.80	59.64	59.49	
12	59.37	59.61	60.63	59.99	60.87	63.39	61.29	60.74	60.11	59.80	59.63	59.50	
13	59.35	59.54	60.75	59.99	60.78	63.86	61.20	60.65	60.11	59.79	59.63	59.50	
14	59.36	59.50	60.67	60.04	60.67	63.19	61.13	60.61	60.10	59.79	59.63	59.50	
15	59.79	59.47	60.86	59.97	60.59	62.74	61.12	60.58	60.09	59.77	59.63	59.49	
16	59.78	59.45	61.00	59.94	60.49	62.75	61.13	60.56	60.07	59.77	59.62	59.49	
17	59.73	59.44	60.97	59.95	60.50	62.62	61.67	60.53	60.08	59.77	59.62	59.53	
18	59.70	59.49	60.86	60.05	60.66	63.05	61.69	60.46	60.26	59.76	59.60	59.53	
19	59.71	60.01	60.92	60.01	60.85	63.29	61.54	60.46	60.27	59.76	59.59	59.51	
20	59.69	59.75	61.32	59.97	61.17	63.32	61.71	60.45	60.19	59.76	59.59	59.50	
21	59.64	59.71	61.29	60.12	61.04	62.93	61.56	60.43	60.13	59.75	59.59	59.49	
22	59.61	59.87	61.86	60.46	61.26	62.56	61.54	60.41	60.08	59.74	59.58	59.48	
23	59.59	60.25	61.85	61.38	61.46	62.46	61.37	60.38	60.04	59.74	59.58	59.47	
24	59.54	60.07	61.48	61.18	61.61	62.26	61.29	60.35	60.00	59.74	59.57	59.46	
25	59.52	60.15	61.49	61.59	61.67	62.30	61.18	60.34	59.98	59.73	59.56	59.45	
26	59.50	60.12	61.28	61.40	62.28	62.08	61.07	60.34	59.96	59.73	59.55	59.45	
27	59.49	60.30	61.15	62.97	63.47	61.90	61.04	60.34	59.96	59.72	59.55	59.45	
28	59.56	60.43	61.06	63.35	62.62	62.03	60.98	60.33	59.95	59.72	59.55	59.45	
29	59.51	60.27	61.07	63.61	62.05	62.07	60.85	60.33	59.93	59.70		59.45	
30	59.47	60.08	61.20	63.78	61.71	62.02	60.78	60.32	59.92	59.69		59.44	
31		60.12		63.06	61.63		60.75		59.91	59.69		59.44	
MEAN	59.50	59.75	61.00	60.90	61.42	63.55	61.37	60.55	60.12	59.78	59.62	59.49	
MAX	59.79	60.43	61.86	63.78	63.47	68.39	62.00	61.22	60.32	59.90	59.69	59.54	68.39
MIN	59.35	59.41	60.33	59.94	60.49	61.90	60.75	60.32	59.91	59.69	59.55	59.44	59.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 68.64 M (MSL), AT 6.00 HOURS, ON SEP 8, 1980
ZERO GAGE AT BOTTOM ELEVATION 59.00 M (MSL), RIVER BED 57.65 M (MSL)
LEFT BANK ELEVATION 69.08 M (MSL)
RIGHT BANK ELEVATION 70.67 M (MSL), DRAINAGE AREA 12658 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.5	0.8	23.8	100.0	304.0	247.6	176.0	50.4	23.2	6.0	2.9	1.4	
2	0.5	0.7	35.8	78.4	262.0	963.6	176.0	48.0	22.0	5.8	2.8	1.3	
3	0.4	0.6	55.2	51.2	247.6	1011.6	182.8	44.8	22.0	5.4	2.8	1.3	
4	0.5	0.6	27.4	60.0	203.2	881.2	210.0	40.0	20.8	5.4	2.7	1.2	
5	0.5	0.6	23.8	28.6	150.8	580.8	159.2	38.2	19.6	5.2	2.6	1.2	
6	0.5	0.6	100.0	22.6	119.2	700.8	131.2	35.2	18.4	4.8	2.6	1.2	
7	0.5	0.8	159.2	18.4	92.8	1453.3	114.4	33.4	16.6	4.8	2.5	1.1	
8	0.5	0.9	97.6	15.2	75.0	2128.2	118.0	32.2	15.6	4.6	2.5	1.0	
9	0.4	0.9	52.8	13.2	67.0	1446.2	125.2	73.0	15.2	4.4	2.6	0.9	
10	0.4	6.6	44.0	11.2	62.0	1014.8	127.6	102.4	14.0	4.2	2.5	0.9	
11	0.4	3.3	39.4	9.6	59.0	583.4	121.6	63.0	12.8	4.0	2.4	0.9	
12	0.4	2.1	42.4	7.8	63.0	485.8	110.8	51.2	12.4	4.0	2.3	1.0	
13	0.3	1.4	52.0	7.8	54.4	602.8	100.0	44.0	12.4	3.9	2.3	1.0	
14	0.3	1.0	45.6	9.6	45.6	441.8	91.6	40.8	12.0	3.9	2.3	1.0	
15	3.9	0.8	62.0	7.4	39.4	346.0	90.4	38.8	11.6	3.7	2.3	0.9	
16	3.8	0.7	76.0	6.8	33.4	348.0	91.6	37.6	10.8	3.7	2.2	0.9	
17	3.3	0.7	73.0	7.0	34.0	322.0	157.8	35.8	11.2	3.7	2.2	1.3	
18	3.0	0.9	62.0	10.0	44.8	411.0	160.6	31.6	19.6	3.6	2.0	1.3	
19	3.1	8.4	68.0	8.4	61.0	463.8	140.8	31.6	20.2	3.6	1.9	1.1	
20	2.9	3.5	114.4	7.4	96.4	470.4	163.4	31.0	15.6	3.6	1.9	1.0	
21	2.4	3.1	110.8	12.8	80.8	384.6	143.2	29.8	13.2	3.5	1.9	0.9	
22	2.1	5.4	186.2	31.6	107.2	310.0	140.8	28.6	11.2	3.4	1.8	0.9	
23	1.9	19.0	184.5	121.6	131.2	290.8	120.4	26.8	9.6	3.4	1.8	0.8	
24	1.4	10.8	133.6	97.6	149.4	254.8	110.8	25.0	8.0	3.4	1.7	0.8	
25	1.2	14.0	134.8	146.8	157.8	262.0	97.6	24.4	7.6	3.3	1.6	0.7	
26	1.0	12.8	109.6	124.0	258.4	223.6	84.4	24.4	7.2	3.3	1.5	0.7	
27	0.9	22.0	94.0	393.4	504.8	193.0	80.8	24.4	7.2	3.2	1.5	0.7	
28	1.6	29.8	83.2	477.0	322.0	215.1	74.0	23.8	7.0	3.2	1.5	0.7	
29	1.1	20.2	84.4	538.4	218.5	221.9	61.0	23.8	6.6	3.0		0.7	
30	0.8	11.2	100.0	580.8	163.4	213.4	54.4	23.2	6.4	2.9		0.7	
31		12.8		413.2	152.2		52.0		6.2	2.9		0.7	
TOTAL	40.5	197.0	2475.5	3417.8	4360.3	17472.3	3768.4	1157.2	416.2	123.8	61.6	30.2	33520.7 CMSDAY
MEAN	1.3	6.4	82.5	110.3	140.7	582.4	121.6	38.6	13.4	4.0	2.2	1.0	91.8 CMS
MAX	3.9	29.8	186.2	580.8	504.8	2128.2	210.0	102.4	23.2	6.0	2.9	1.4	2128.2 CMS
MIN	0.3	0.6	23.8	6.8	33.4	193.0	52.0	23.2	6.2	2.9	1.5	0.7	0.3 CMS
RUNOFF	3.50	17.02	213.88	295.30	376.73	1509.60	325.59	99.98	35.96	10.70	5.32	2.61	2896.19 MCM

MOMENTARY PEAK 2223.20 CMS, AT 68.64 M (MSL), AT 6.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 7.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 175.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

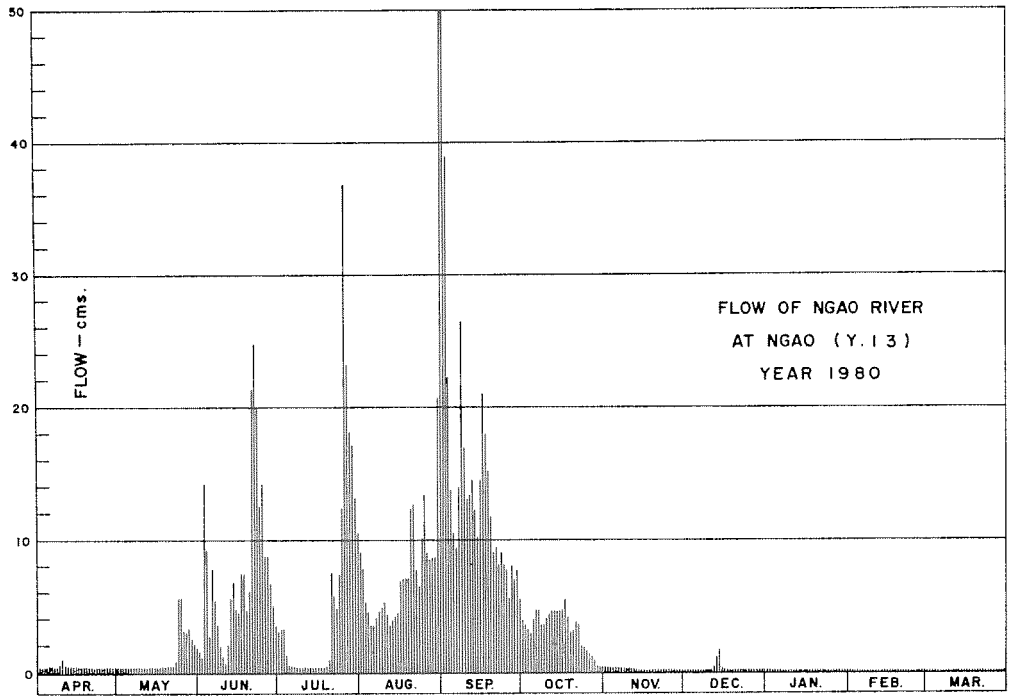
NGAO RIVER AT NGAO, LAMPANG (Y.13)

LOCATION	LAT. 18°-45'-06" N., LONG. 99°-58'-53" E., ON LEFT BANK AT DOWNSTREAM SIDE OF NGAO BRIDGE, AMPHOE NGAO, LAMPANG.
DRAINAGE AREA	382 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+266.30 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 5.00 METERS UPSTREAM FROM THE GAGE SITE.
ELEVATION	+273.180 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1957 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1957-1958, 1969, 1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1957-1958, 1969, 1971 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	266.66	266.66	266.74	266.80	267.01	268.19	266.84	266.70	266.58	266.53	266.55	266.43	
2	266.66	266.67	266.73	266.81	266.97	267.74	266.82	266.68	266.58	266.53	266.56	266.44	
3	266.67	266.67	267.13	266.81	266.88	267.30	266.81	266.68	266.58	266.52	266.56	266.45	
4	266.69	266.67	266.98	266.73	266.85	267.13	266.80	266.68	266.58	266.52	266.54	266.45	
5	266.69	266.67	266.79	266.70	266.82	267.04	266.83	266.67	266.58	266.52	266.51	266.45	
6	266.70	266.67	266.96	266.70	266.82	267.01	266.86	266.66	266.58	266.52	266.49	266.45	
7	266.67	266.67	266.87	266.70	266.84	267.14	266.86	266.65	266.58	266.52	266.48	266.45	
8	266.67	266.67	266.81	266.68	266.85	267.38	266.82	266.66	266.58	266.53	266.48	266.45	
9	266.70	266.67	266.76	266.69	266.86	267.18	266.82	266.66	266.58	266.54	266.47	266.46	
10	266.72	266.67	266.72	266.69	266.88	267.10	266.84	266.66	266.58	266.53	266.45	266.46	
11	266.70	266.67	266.70	266.68	266.85	267.11	266.85	266.65	266.58	266.52	266.45	266.46	
12	266.70	266.67	266.76	266.68	266.82	267.14	266.86	266.64	266.60	266.52	266.45	266.46	
13	266.69	266.66	266.85	266.67	266.83	267.08	266.86	266.61	266.73	266.52	266.45	266.46	
14	266.69	266.68	266.93	266.67	266.84	267.03	266.86	266.60	266.75	266.52	266.45	266.46	
15	266.69	266.68	266.86	266.67	266.84	267.14	266.86	266.60	266.68	266.52	266.44	266.46	
16	266.68	266.67	266.85	266.67	266.93	267.28	266.86	266.60	266.66	266.52	266.44	266.48	
17	266.68	266.66	266.95	266.67	266.94	267.21	266.89	266.60	266.61	266.52	266.44	266.47	
18	266.68	266.66	266.95	266.67	266.94	267.15	266.85	266.60	266.60	266.54	266.44	266.45	
19	266.68	266.68	266.85	266.68	266.94	267.06	266.80	266.60	266.60	266.56	266.43	266.44	
20	266.67	266.68	266.90	266.71	267.08	267.00	266.81	266.58	266.59	266.56	266.43	266.44	
21	266.66	266.70	267.28	266.95	267.09	267.01	266.83	266.58	266.58	266.56	266.43	266.45	
22	266.66	266.70	267.35	266.90	266.97	266.97	266.82	266.58	266.57	266.56	266.43	266.45	
23	266.65	266.70	267.23	266.86	266.92	267.00	266.76	266.58	266.55	266.56	266.43	266.45	
24	266.65	266.89	267.09	266.95	267.01	266.97	266.76	266.58	266.55	266.56	266.43	266.45	
25	266.65	266.89	267.13	267.08	267.11	266.96	266.74	266.58	266.54	266.56	266.43	266.45	
26	266.65	266.80	266.99	267.55	267.00	266.89	266.73	266.58	266.54	266.56	266.43	266.44	
27	266.65	266.80	266.99	267.31	266.98	266.97	266.73	266.58	266.54	266.55	266.43	266.44	
28	266.66	266.81	266.93	267.22	266.99	266.94	266.72	266.58	266.53	266.54	266.43	266.45	
29	266.66	266.78	266.87	267.20	266.99	266.96	266.70	266.58	266.53	266.50		266.44	
30	266.66	266.77	266.83	267.11	267.21	266.90	266.68	266.58	266.51	266.50		266.43	
31		266.76		267.04	267.39		266.70		266.53	266.51		266.42	
MEAN	266.67	266.71	266.93	266.85	266.95	267.13	266.81	266.62	266.59	266.53	266.46	266.45	
MAX	266.72	266.89	267.35	267.55	267.39	268.19	266.89	266.70	266.75	266.56	266.56	266.48	268.19
MIN	266.65	266.66	266.70	266.67	266.82	266.89	266.68	266.58	266.51	266.50	266.43	266.42	266.42

ANNUAL MAX MOMENTARY GAGE HEIGHT 269.44 M (MSL), AT 15.00 HOURS, ON SEP 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 266.30 M (MSL), RIVER BED 266.20 M (MSL)
LEFT BANK ELEVATION 275.55 M (MSL)
RIGHT BANK ELEVATION 274.80 M (MSL), DRAINAGE AREA 382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.28	1.44	3.00	9.40	98.32	4.12	0.40	0.09	0.06	0.08	0.01	
2	0.28	0.31	1.18	3.28	8.04	51.40	3.56	0.34	0.09	0.06	0.08	0.02	
3	0.31	0.31	14.20	3.28	5.24	22.00	3.28	0.34	0.09	0.06	0.08	0.02	
4	0.37	0.31	8.36	1.18	4.40	14.20	3.00	0.34	0.09	0.06	0.07	0.02	
5	0.37	0.31	2.74	0.40	3.56	10.60	3.84	0.31	0.09	0.06	0.05	0.02	
6	0.40	0.31	7.72	0.40	3.56	9.40	4.68	0.28	0.09	0.06	0.04	0.02	
7	0.31	0.31	4.96	0.40	4.12	14.60	4.68	0.25	0.09	0.06	0.04	0.02	
8	0.31	0.31	3.28	0.34	4.40	26.40	3.56	0.28	0.09	0.06	0.04	0.02	
9	0.40	0.31	1.96	0.37	4.68	16.20	3.56	0.28	0.09	0.07	0.04	0.03	
10	0.92	0.31	0.92	0.37	5.24	13.00	4.12	0.28	0.09	0.06	0.02	0.03	
11	0.40	0.31	0.40	0.34	4.40	13.40	4.40	0.25	0.09	0.06	0.02	0.03	
12	0.40	0.31	1.96	0.34	3.56	14.60	4.68	0.22	0.10	0.06	0.02	0.03	
13	0.37	0.28	5.24	0.31	3.84	12.20	4.68	0.13	1.18	0.06	0.02	0.03	
14	0.37	0.34	6.76	0.31	4.12	10.20	4.68	0.10	1.70	0.06	0.02	0.03	
15	0.37	0.34	4.68	0.31	4.12	14.60	4.68	0.10	0.34	0.06	0.02	0.03	
16	0.34	0.31	4.40	0.31	6.76	21.00	4.68	0.10	0.28	0.06	0.02	0.04	
17	0.34	0.28	7.40	0.31	7.08	17.50	5.52	0.10	0.13	0.06	0.02	0.04	
18	0.34	0.28	7.40	0.31	7.08	15.00	4.40	0.10	0.10	0.07	0.02	0.02	
19	0.34	0.34	4.40	0.34	7.08	11.40	3.00	0.10	0.10	0.08	0.01	0.02	
20	0.31	0.34	5.80	0.66	12.20	9.00	3.28	0.09	0.09	0.08	0.01	0.02	
21	0.28	0.40	21.00	7.40	12.60	9.40	3.84	0.09	0.09	0.08	0.01	0.02	
22	0.28	0.40	24.75	5.80	8.04	8.04	3.56	0.09	0.08	0.08	0.01	0.02	
23	0.25	0.40	18.50	4.68	6.44	9.00	1.96	0.09	0.08	0.08	0.01	0.02	
24	0.25	5.52	12.60	7.40	9.40	8.04	1.96	0.09	0.08	0.08	0.01	0.02	
25	0.25	5.52	14.20	12.20	13.40	7.72	1.44	0.09	0.07	0.08	0.01	0.02	
26	0.25	3.00	8.68	36.75	9.00	5.52	1.18	0.09	0.07	0.08	0.01	0.02	
27	0.25	3.00	8.68	22.55	8.36	8.04	1.18	0.09	0.07	0.08	0.01	0.02	
28	0.28	3.28	6.76	18.00	8.68	7.08	0.92	0.09	0.06	0.07	0.01	0.02	
29	0.28	2.48	4.96	17.00	8.68	7.72	0.40	0.09	0.06	0.05		0.02	
30	0.28	2.22	3.84	13.40	17.50	5.80	0.34	0.09	0.05	0.05		0.01	
31		1.96		10.60	26.95		0.40		0.06	0.05		0.01	
TOTAL	10.18	34.38	219.17	172.34	241.93	491.38	99.58	5.29	5.78	2.04	0.80	0.70	1283.57 CMSDAY
MEAN	0.34	1.11	7.31	5.56	7.80	16.38	3.21	0.18	0.19	0.07	0.03	0.02	3.52 CMS
MAX	0.92	5.52	24.75	36.75	26.95	98.32	5.52	0.40	1.70	0.08	0.08	0.04	98.32 CMS
MIN	0.25	0.28	0.40	0.31	3.56	5.52	0.34	0.09	0.05	0.05	0.01	0.01	0.01 CMS
RUNOFF	0.880	2.970	18.936	14.890	20.903	42.455	8.604	0.457	0.499	0.176	0.069	0.060	110.900 MCM

MOMENTARY PEAK 303.59 CMS, AT 269.44 M (MSL), AT 15.00 HOURS, ON SEP 1, 1980

RUNOFF YIELD 9.21 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 794.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

YOM RIVER AT BAN DON RABIANG, SUKHOTHAI (Y.14)

LOCATION — LAT. 17°-35'-42" N., LONG. 99°-43'-08 E., ON LEFT BANK ABOUT 50 METERS FROM SI SATCHANALAI-DEN CHAI HIGHWAY NO. 101 AT KILOMETER MARKER 44 TH., AMPHOE SI SATCHANALAI, SUKHOTHAI.

DRAINAGE AREA — 12,131 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +65.10 M. (M.S.L.)

BENCH MARK — B.M.-H.D. NO.1

LOCATION — INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — +78.363 M. (M.S.L.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1964 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1964 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1964 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

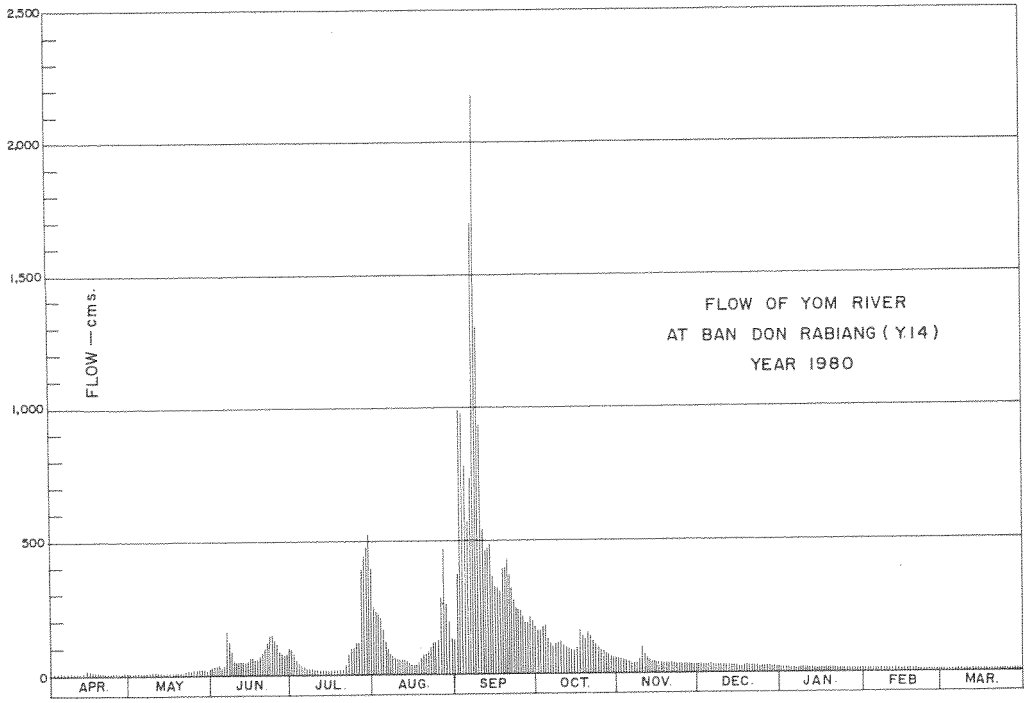
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	65.61	65.66	66.35	67.20	68.48	68.80	67.87	66.75	66.43	66.14	65.99	65.89	
2	65.61	65.66	66.34	66.92	68.31	72.08	67.85	66.73	66.43	66.14	65.98	65.89	
3	65.61	65.65	66.44	66.63	68.29	72.03	67.90	66.69	66.42	66.13	65.98	65.88	
4	65.62	65.66	66.25	66.46	67.92	71.45	68.00	66.65	66.41	66.12	65.97	65.88	
5	65.62	65.65	66.26	66.36	67.58	70.32	67.62	66.62	66.40	66.11	65.97	65.87	
6	65.62	65.66	67.83	66.29	67.29	71.10	67.42	66.60	66.38	66.10	65.97	65.87	
7	65.62	65.70	67.58	66.24	67.06	74.37	67.32	66.58	66.36	66.09	65.96	65.86	
8	65.61	65.69	67.02	66.20	66.91	75.76	67.39	66.58	66.35	66.08	65.96	65.86	
9	65.61	65.69	66.66	66.16	66.85	73.11	67.43	67.30	66.34	66.08	65.96	65.86	
10	65.60	65.89	66.60	66.12	66.77	71.72	67.43	67.08	66.32	66.07	65.96	65.86	
11	65.60	65.82	66.69	66.08	66.77	70.06	67.38	66.82	66.31	66.07	65.95	65.85	
12	65.59	65.74	66.71	66.05	66.81	69.76	67.27	66.73	66.31	66.06	65.95	65.85	
13	65.58	65.71	66.62	66.07	66.70	69.93	67.19	66.67	66.30	66.05	65.95	65.85	
14	65.96	65.68	66.61	66.07	66.60	69.41	67.14	66.63	66.29	66.05	65.95	65.85	
15	65.98	65.67	66.87	66.04	66.51	68.98	67.13	66.62	66.28	66.04	65.94	65.85	
16	65.92	65.67	66.87	66.04	66.45	69.00	67.18	66.60	66.27	66.04	65.94	65.85	
17	65.88	65.68	66.81	66.05	66.51	68.85	67.81	66.58	66.33	66.04	65.93	65.85	
18	65.88	65.83	66.76	66.14	66.65	69.40	67.68	66.55	66.40	66.04	65.93	65.85	
19	65.86	65.92	67.05	66.05	67.00	69.43	67.55	66.55	66.38	66.04	65.93	65.84	
20	65.84	65.75	67.26	66.00	67.07	69.61	67.76	66.53	66.34	66.03	65.93	65.84	
21	65.79	65.91	67.36	66.17	67.09	69.05	67.60	66.52	66.29	66.03	65.93	65.82	
22	65.79	65.98	67.68	66.76	67.30	68.72	67.52	66.48	66.27	66.03	65.92	65.81	
23	65.76	66.15	67.71	67.28	67.50	68.56	67.37	66.46	66.24	66.03	65.91	65.81	
24	65.73	66.03	67.65	67.25	67.51	68.42	67.28	66.45	66.22	66.02	65.91	65.80	
25	65.72	66.19	67.37	67.40	67.55	68.42	67.16	66.45	66.20	66.02	65.90	65.80	
26	65.71	66.14	67.15	67.42	68.78	68.15	67.07	66.45	66.20	66.02	65.90	65.80	
27	65.80	66.20	67.08	69.38	69.83	68.04	67.04	66.45	66.19	66.01	65.89	65.80	
28	35.74	66.23	67.06	69.75	68.60	68.18	66.96	66.44	66.18	66.01	65.89	65.80	
29	65.70	66.13	67.09	69.95	68.01	68.21	66.85	66.44	66.18	66.00		65.79	
30	65.69	66.03	67.25	70.15	67.65	68.04	66.79	66.43	66.17	66.00		65.79	
31		66.23		69.06	67.53		66.77		66.16	65.99		65.79	
MEAN	65.72	65.86	66.97	66.96	67.42	69.97	67.38	66.61	66.30	66.05	65.94	65.84	
MAX	65.98	66.23	67.83	70.15	69.83	75.76	68.00	67.30	66.43	66.14	65.99	65.89	75.76
MIN	65.58	65.65	66.25	66.00	66.45	68.04	66.77	66.43	66.16	65.99	65.89	65.79	65.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 76.52 M (MSL), AT 2.00 HOURS, ON SEP 8, 1980
ZERO GAGE AT BOTTOM ELEVATION 65.10 M (MSL), RIVER BED 63.28 M (MSL)
LEFT BANK ELEVATION 78.41 M (MSL)
RIGHT BANK ELEVATION 78.41 M (MSL), DRAINAGE AREA 12131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.1	1.6	27.5	90.0	245.2	292.0	164.4	52.0	31.5	17.6	11.6	7.7	
2	1.1	1.6	27.0	65.6	221.4	986.6	162.0	50.4	31.5	17.6	11.2	7.7	
3	1.1	1.5	32.0	42.4	218.6	973.1	168.0	47.2	31.0	17.2	11.2	7.4	
4	1.2	1.6	22.5	33.0	170.4	820.0	180.0	44.0	30.5	16.8	10.8	7.4	
5	1.2	1.5	23.0	28.0	130.8	564.0	135.2	41.6	30.0	16.4	10.8	7.1	
6	1.2	1.6	159.6	24.5	99.0	736.0	113.2	40.0	29.0	16.0	10.8	7.1	
7	1.2	2.0	130.8	22.0	76.8	1689.8	102.2	39.0	28.0	15.6	10.4	6.8	
8	1.1	1.9	73.6	20.0	64.8	2173.6	109.9	39.0	27.5	15.2	10.4	6.8	
9	1.1	1.9	44.8	18.4	60.0	1289.0	114.3	100.0	27.0	15.2	10.4	6.8	
10	1.0	7.7	40.0	16.8	53.6	889.4	114.3	78.4	26.0	14.8	10.4	6.8	
11	1.0	5.6	47.2	15.2	53.6	512.0	108.8	57.6	25.5	14.8	10.0	6.5	
12	0.9	3.2	48.8	14.0	56.8	454.8	97.0	50.4	25.5	14.4	10.0	6.5	
13	0.8	2.3	41.6	14.8	48.0	486.0	89.0	45.6	25.0	14.0	10.0	6.5	
14	10.4	1.8	40.8	14.8	40.0	392.7	84.0	42.4	24.5	14.0	10.0	6.5	
15	11.2	1.7	61.6	13.6	35.5	320.8	83.0	41.6	24.0	13.6	9.6	6.5	
16	8.8	1.7	61.6	13.6	32.5	324.0	88.0	40.0	23.5	13.6	9.6	6.5	
17	7.4	1.8	56.8	14.0	35.5	300.0	157.2	39.0	26.5	13.6	9.2	6.5	
18	7.4	5.9	52.8	17.6	44.0	391.0	141.8	37.5	30.0	13.6	9.2	6.5	
19	6.8	8.8	76.0	14.0	72.0	396.1	127.5	37.5	29.0	13.6	9.2	6.2	
20	6.2	3.5	96.0	12.0	77.6	427.8	151.2	36.5	27.0	13.2	9.2	6.2	
21	4.7	8.4	106.6	18.8	79.2	332.0	133.0	36.0	24.5	13.2	9.2	5.6	
22	4.7	11.2	141.8	52.8	100.0	280.0	124.2	34.0	23.5	13.2	8.8	5.3	
23	3.8	18.0	145.2	98.0	122.0	256.4	107.7	33.0	22.0	13.2	8.4	5.3	
24	2.9	13.2	138.5	95.0	123.1	236.8	98.0	32.5	21.0	12.8	8.4	5.0	
25	2.6	19.6	107.7	111.0	127.5	236.8	86.0	32.5	20.0	12.8	8.0	5.0	
26	2.3	17.6	85.0	113.2	289.0	199.0	77.6	32.5	20.0	12.8	8.0	5.0	
27	5.0	20.0	78.4	387.6	467.4	184.8	75.2	32.5	19.6	12.4	7.7	5.0	
28	3.2	21.5	76.8	453.0	262.0	203.2	68.8	32.0	19.2	12.4	7.7	5.0	
29	2.0	17.2	79.2	490.0	181.2	207.4	60.0	32.0	19.2	12.0		4.7	
30	1.9	13.2	95.0	530.0	138.5	184.8	55.2	31.5	18.8	12.0		4.7	
31		21.5		333.6	125.3		53.6		18.4	11.6		4.7	
TOTAL	105.3	240.6	2218.2	3187.3	3851.3	16739.9	3430.3	1288.2	778.7	439.2	270.2	191.3	32740.5 CMSDAY
MEAN	3.5	7.8	73.9	102.8	124.2	558.0	110.7	42.9	25.1	14.2	9.6	6.2	89.7 CMS
MAX	11.2	21.5	159.6	530.0	467.4	2173.6	180.0	100.0	31.5	17.6	11.6	7.7	2173.6 CMS
MIN	0.8	1.5	22.5	12.0	32.5	184.8	53.6	31.5	18.4	11.6	7.7	4.7	0.8 CMS
RUNOFF	9.10	20.79	191.65	275.38	332.75	1446.33	296.38	111.30	67.28	37.95	23.35	16.53	2828.78 MCM

MOMENTARY PEAK 2447.20 CMS, AT 76.52 M (MSL), AT 2.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 7.39 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 201.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

YOM RIVER AT SAM NGAM, PHICHIT (Y.17)

LOCATION — LAT. 16°-30'-50" N. LONG. 100°-12'-40" E., ON LEFT BANK INFRONT OF AMPHOE SAM NGAM OFFICE, PHICHIT.

DRAINAGE AREA — 21,415 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +31.49 M. (M.S.L.)

BENCH MARK — B.M.-R.I.D./Y.17

LOCATION — ABOUT 6 METERS DOWNSTREAM FROM THE GAGE SITE.

ELEVATION — +37.838 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +37.24 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.

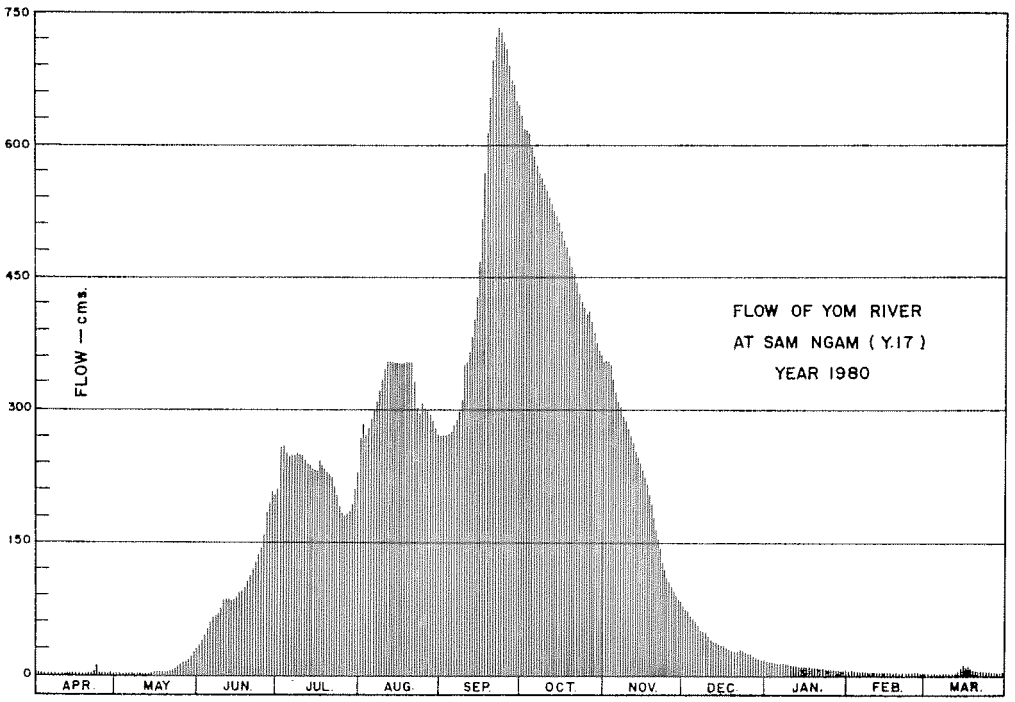
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 87 DISCHARGE MEASUREMENTS MADE IN 1967. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 24,000 HECTARES.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-9, 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	31.16	31.89	32.87	35.97	36.29	36.28	37.81	36.88	33.69	32.45	32.13	31.92	
2	31.16	31.88	32.98	36.13	36.40	36.27	37.77	36.83	33.62	32.44	32.12	31.92	
3	31.16	31.83	33.06	36.16	36.27	36.29	37.78	36.78	33.56	32.44	32.12	31.92	
4	31.16	31.86	33.19	36.07	36.34	36.32	37.75	36.75	33.51	32.43	32.11	31.91	
5	31.16	31.88	33.39	36.03	36.44	36.39	37.72	36.69	33.46	32.42	32.10	31.91	
6	31.16	31.89	33.49	36.04	36.53	36.44	37.69	36.63	33.36	32.40	32.10	31.90	
7	31.16	31.89	33.50	36.04	36.61	36.53	37.66	36.55	33.27	32.37	32.09	31.89	
8	31.16	31.84	33.51	36.06	36.68	36.64	37.65	36.49	33.19	32.34	32.09	31.88	
9	31.16	31.80	33.61	36.05	36.74	36.78	37.62	36.43	33.19	32.34	32.08	31.88	
10	31.15	31.86	33.74	36.02	36.77	36.86	37.60	36.35	33.13	32.33	32.07	31.88	
11	31.15	31.86	33.84	35.98	36.81	36.95	37.57	36.25	33.02	32.31	32.07	31.91	
12	31.14	31.85	33.85	35.94	36.83	37.04	37.55	36.17	32.97	32.29	32.06	31.92	
13	31.13	31.86	33.81	35.91	36.86	37.11	37.53	36.09	32.93	32.28	32.05	31.92	
14	31.11	31.86	33.83	35.88	36.88	37.23	37.52	36.00	32.88	32.26	32.05	32.09	
15	31.10	31.98	33.84	35.84	36.87	37.36	37.50	35.89	32.84	32.26	32.04	32.21	
16	31.08	32.04	33.97	35.83	36.87	37.52	37.47	35.80	32.83	32.24	32.03	32.26	
17	31.08	32.00	33.98	35.94	36.87	37.67	37.43	35.68	32.81	32.23	32.02	32.22	
18	31.08	31.99	34.02	35.89	36.87	37.77	37.40	35.55	32.78	32.22	32.01	32.26	
19	31.07	31.99	34.13	35.87	36.84	37.88	37.36	35.35	32.74	32.21	32.00	32.12	
20	31.07	31.98	34.22	35.82	36.80	37.98	37.32	35.19	32.70	32.20	31.99	32.07	
21	31.06	31.99	34.33	35.76	36.74	38.03	37.28	34.97	32.72	32.20	31.98	32.04	
22	31.06	32.04	34.45	35.63	36.59	38.06	37.23	34.80	32.76	32.19	31.98	32.00	
23	32.33	32.20	34.62	35.52	36.50	38.05	37.19	34.54	32.74	32.19	31.97	32.00	
24	31.99	32.22	34.71	35.39	36.60	38.02	37.17	34.36	32.71	32.18	31.96	31.99	
25	31.99	32.34	34.93	35.27	36.58	38.00	37.13	34.23	32.67	32.18	31.95	31.98	
26	31.98	32.42	35.14	35.21	36.55	37.97	37.15	34.12	32.62	32.17	31.94	31.97	
27	31.95	32.44	35.34	35.25	36.50	37.92	37.10	34.00	32.59	32.16	31.94	31.96	
28	31.95	32.48	35.48	35.28	36.45	37.90	37.05	33.93	32.53	32.16	31.93	31.94	
29	31.94	32.59	35.58	35.43	36.37	37.86	37.00	33.85	32.51	32.15		31.94	
30	31.93	32.69	35.54	35.62	36.32	37.85	36.97	33.76	32.49	32.14		31.93	
31		32.77		35.81	36.27		36.93		32.47	32.13		31.91	
MEAN	31.36	32.07	34.10	35.79	36.61	37.30	37.42	35.56	32.94	32.27	32.03	31.99	
MAX	32.33	32.77	35.58	36.16	36.88	38.06	37.81	36.88	33.69	32.45	32.13	32.26	38.06
MIN	31.06	31.80	32.87	35.21	36.27	36.27	36.93	33.76	32.47	32.13	31.93	31.88	31.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 38.07 M (MSL), AT 12.00 HOURS, ON SEP 22, 1980
ZERO GAGE AT BOTTOM ELEVATION 31.49 M (MSL), RIVER BED 30.30 M (MSL)
LEFT BANK ELEVATION 37.96 M (MSL)
RIGHT BANK ELEVATION 37.24 M (MSL), DRAINAGE AREA 21415 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	1.2	33.7	242.7	272.5	271.5	629.2	353.2	76.1	15.9	5.9	1.7	
2	0.0	1.1	38.9	257.2	284.3	270.5	612.8	354.2	72.2	15.5	5.7	1.7	
3	0.0	0.5	42.9	260.0	270.5	272.5	616.9	351.4	69.0	15.5	5.7	1.7	
4	0.0	0.8	49.4	251.8	277.8	275.7	604.6	340.6	66.2	15.1	5.4	1.5	
5	0.0	1.1	59.7	248.1	288.8	283.2	592.3	319.1	63.5	14.7	5.2	1.5	
6	0.0	1.2	65.1	249.0	299.1	288.8	580.0	311.2	58.1	13.9	5.2	1.4	
7	0.0	1.2	65.6	249.0	308.6	299.1	569.5	301.4	53.5	12.9	4.9	1.2	
8	0.0	0.6	66.2	250.9	317.8	312.5	566.0	294.5	49.4	12.0	4.9	1.1	
9	0.0	0.1	71.7	250.0	337.1	351.4	555.5	287.7	49.4	12.0	4.7	1.1	
10	0.0	0.8	79.0	247.2	347.8	353.6	548.5	278.9	46.4	11.7	4.5	1.1	
11	0.0	0.8	84.7	243.6	354.6	365.4	538.0	268.6	40.9	11.1	4.5	1.5	
12	0.0	0.7	85.3	240.0	354.2	385.3	531.0	260.9	38.4	10.5	4.3	1.7	
13	0.0	0.8	83.0	237.4	353.6	402.2	524.0	253.6	36.5	10.2	4.1	1.7	
14	0.0	0.8	84.2	234.7	353.2	433.8	520.5	245.4	34.1	9.6	4.1	4.9	
15	0.0	2.7	84.7	231.2	353.4	471.0	513.5	235.6	32.3	9.6	3.9	8.1	
16	0.0	3.9	92.6	230.3	353.4	520.5	504.0	227.7	31.8	9.0	3.7	9.6	
17	0.0	3.1	93.2	240.0	353.4	573.0	492.0	218.9	30.9	8.7	3.5	8.4	
18	0.0	2.9	95.7	235.6	353.4	612.8	483.0	206.4	29.5	8.4	3.3	9.6	
19	0.0	2.9	102.6	233.8	354.0	657.9	471.0	190.2	27.8	8.1	3.1	5.7	
20	0.0	2.7	108.4	229.4	354.8	698.9	459.0	177.9	26.0	7.8	2.9	4.5	
21	0.0	2.9	115.7	224.6	337.1	719.4	447.3	161.3	26.8	7.8	2.7	3.9	
22	0.0	3.9	123.8	213.9	306.0	731.7	433.8	148.7	28.7	7.5	2.7	3.1	
23	11.7	7.8	135.7	203.9	295.6	727.6	423.0	130.0	27.8	7.5	2.6	3.1	
24	2.9	8.4	142.2	193.3	307.3	715.3	417.8	117.7	26.4	7.2	2.4	2.9	
25	2.9	12.0	158.4	184.0	304.8	707.1	407.4	109.1	24.7	7.2	2.2	2.7	
26	2.7	14.7	174.1	179.4	301.4	694.8	412.6	101.9	22.7	7.0	2.0	2.6	
27	2.2	15.5	189.4	182.5	295.6	674.3	399.6	94.4	21.5	6.7	2.0	2.4	
28	2.2	17.1	200.6	184.7	290.0	666.1	387.6	90.1	19.1	6.7	1.9	2.0	
29	2.0	21.5	208.9	196.5	281.1	649.7	375.9	85.3	18.3	6.5		2.0	
30	1.9	25.5	205.5	212.9	275.7	645.6	369.5	80.1	17.5	6.2		1.9	
31		29.1		228.6	270.5		361.2		16.7	5.9		1.5	
TOTAL	28.5	188.3	3140.9	7066.2	9807.4	15031.2	15347.0	6596.0	1182.2	308.4	108.0	97.8	58901.8 CMSDAY
MEAN	0.9	6.1	104.7	227.9	316.4	501.0	495.1	219.9	38.1	9.9	3.9	3.2	161.4 CMS
MAX	11.7	29.1	208.9	260.0	354.8	731.7	629.2	354.2	76.1	15.9	5.9	9.6	731.7 CMS
MIN	0.0	0.1	33.7	179.4	270.5	270.5	361.2	80.1	16.7	5.9	1.9	1.1	0.0 CMS
RUNOFF	2.46	16.27	271.37	610.52	847.36	1298.69	1325.98	569.89	102.14	26.65	9.33	8.45	5089.12 MCM

MOMENTARY PEAK 735.80 CMS, AT 38.07 M (MSL), AT 12.00 HOURS, ON SEP 22, 1980

RUNOFF YIELD 7.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 34.36 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

NAM NGIM AT BAN HAE, PHAYAO (Y.19)

LOCATION — LAT. 19°-18'-10" N., LONG. 100°-23'-35" E., ON LEFT BANK ABOUT 200 METERS DOWNSTREAM FROM CONFLUENCE WITH HUAI NAM KHA AND ABOUT 300 METERS UPSTREAM FROM BAN HAE WEIR, AMPHOE PONG, PHAYAO.

DRAINAGE AREA — 155 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +346.30 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +350.401 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1968 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968-1971

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 166 DISCHARGE MEASUREMENTS MADE IN 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

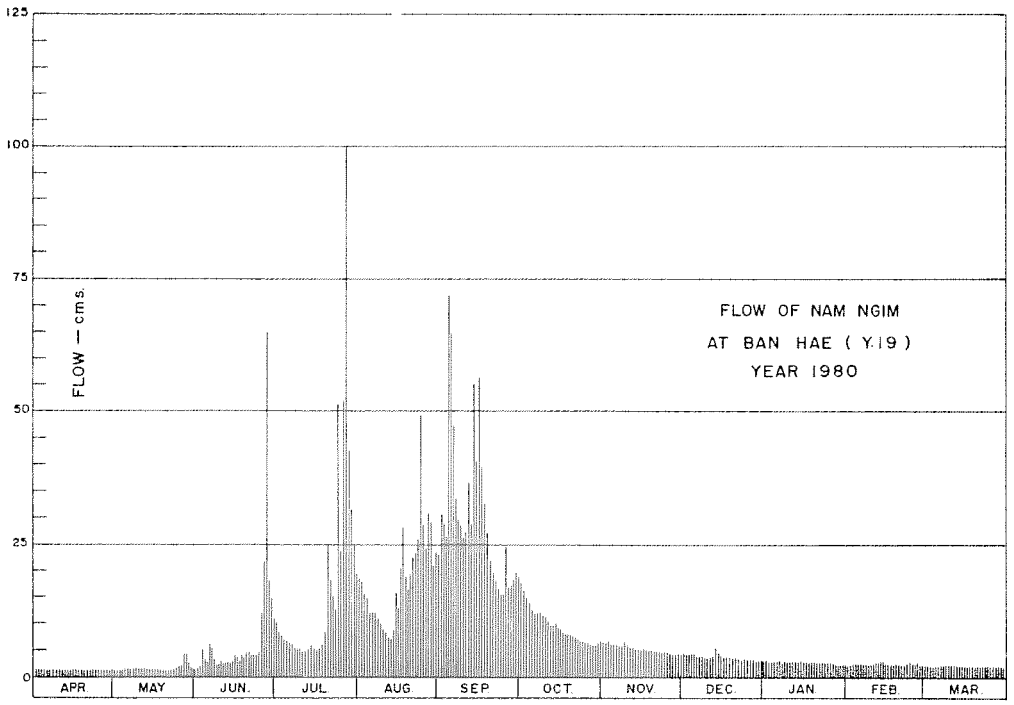
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	346.90	346.87	346.90	347.32	347.55	347.77	347.54	347.22	347.12	347.05	347.01	346.98	
2	346.90	346.87	346.94	347.28	347.52	347.75	347.50	347.21	347.12	347.04	347.01	346.99	
3	346.89	346.86	347.14	347.24	347.48	347.70	347.47	347.22	347.12	347.04	347.02	346.98	
4	346.89	346.88	347.04	347.23	347.43	348.23	347.44	347.20	347.12	347.04	347.02	346.98	
5	346.88	346.91	347.01	347.22	347.38	348.08	347.41	347.20	347.12	347.05	347.02	346.98	
6	346.88	346.90	347.18	347.21	347.39	347.89	347.38	347.20	347.10	347.05	347.02	347.00	
7	346.89	346.89	347.11	347.18	347.38	347.76	347.38	347.19	347.10	347.04	347.01	346.99	
8	346.88	346.90	346.98	347.16	347.35	347.74	347.39	347.18	347.10	347.05	347.01	346.99	
9	346.89	346.90	346.96	347.16	347.32	347.68	347.38	347.22	347.08	347.04	347.01	346.98	
10	346.88	346.92	347.02	347.15	347.30	347.72	347.37	347.19	347.08	347.04	347.01	346.98	
11	346.88	346.91	347.00	347.14	347.28	347.86	347.33	347.18	347.08	347.04	347.04	346.99	
12	346.87	346.91	347.02	347.13	347.26	347.74	347.32	347.17	347.09	347.04	347.04	346.99	
13	346.88	346.89	347.03	347.15	347.24	348.08	347.30	347.17	347.17	347.04	347.04	346.99	
14	346.86	346.88	347.01	347.19	347.24	347.91	347.33	347.16	347.12	347.04	347.05	346.98	
15	346.90	346.90	347.09	347.16	347.49	348.09	347.30	347.16	347.10	347.04	347.02	346.98	
16	346.88	346.92	347.05	347.15	347.41	348.01	347.29	347.16	347.09	347.04	347.01	346.96	
17	346.90	346.90	347.02	347.16	347.73	347.82	347.28	347.16	347.08	347.04	347.01	346.97	
18	346.89	346.91	347.10	347.18	347.56	347.72	347.27	347.14	347.08	347.04	347.01	346.97	
19	346.88	346.89	347.07	347.25	347.56	347.66	347.27	347.14	347.08	347.04	347.01	346.97	
20	346.88	346.88	347.14	347.67	347.50	347.59	347.26	347.14	347.08	347.02	347.01	346.97	
21	346.87	346.90	347.11	347.55	347.63	347.55	347.26	347.14	347.08	347.02	346.99	346.97	
22	346.89	346.91	347.10	347.48	347.64	347.51	347.24	347.13	347.07	347.02	347.00	346.96	
23	346.87	346.90	347.12	347.40	347.67	347.49	347.23	347.13	347.06	347.02	347.02	346.96	
24	346.87	346.92	347.11	348.04	348.02	347.46	347.23	347.13	347.06	347.02	347.02	346.96	
25	346.87	346.97	347.41	347.64	347.78	347.67	347.22	347.13	347.06	347.02	347.02	346.97	
26	346.87	346.94	347.64	348.00	347.65	347.51	347.21	347.13	347.06	347.02	347.01	346.96	
27	346.87	347.10	348.17	348.49	347.78	347.51	347.20	347.12	347.06	347.01	347.02	346.96	
28	346.86	347.11	347.54	348.01	347.66	347.53	347.20	347.12	347.06	347.00	346.99	346.97	
29	346.86	346.95	347.42	347.78	347.59	347.58	347.20	347.12	347.06	347.00		346.95	
30	346.87	346.92	347.33	347.68	347.65	347.56	347.22	347.12	347.05	347.01		346.94	
31		346.91		347.57	347.63		347.22		347.05	347.01		346.94	
MEAN	346.88	346.92	347.16	347.42	347.52	347.74	347.31	347.16	347.09	347.03	347.02	346.97	
MAX	346.90	347.11	348.17	348.49	348.02	348.23	347.54	347.22	347.17	347.05	347.05	347.00	348.49
MIN	346.86	346.86	346.90	347.13	347.24	347.46	347.20	347.12	347.05	347.00	346.99	346.94	346.86

ANNUAL MAX MOMENTARY GAGE HEIGHT 348.70 M (MSL), AT 7.00 HOURS, ON JUL 27, 1980

ZERO GAGE AT BOTTOM ELEVATION 346.30 M (MSL), RIVER BED 346.59 M (MSL)

LEFT BANK ELEVATION 350.92 M (MSL)

RIGHT BANK ELEVATION 350.09 M (MSL), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.30	1.12	1.30	9.68	18.40	30.34	17.96	6.68	4.34	3.10	2.46	2.10	
2	1.30	1.12	1.70	8.42	17.08	29.10	16.20	6.39	4.34	2.94	2.46	2.20	
3	1.24	1.06	4.78	7.26	15.44	26.00	15.06	6.68	4.34	2.94	2.62	2.10	
4	1.24	1.18	2.94	6.97	13.54	71.30	13.92	6.10	4.34	2.94	2.62	2.10	
5	1.18	1.40	2.46	6.68	11.72	55.08	12.78	6.10	4.34	3.10	2.62	2.10	
6	1.18	1.30	5.66	6.39	12.06	38.50	11.72	6.10	3.90	3.10	2.62	2.30	
7	1.24	1.24	4.12	5.66	11.72	29.72	11.72	5.88	3.90	2.94	2.46	2.20	
8	1.18	1.30	2.10	5.22	10.70	28.48	12.06	5.66	3.90	3.10	2.46	2.20	
9	1.24	1.30	1.90	5.22	9.68	24.92	11.72	6.68	3.58	2.94	2.46	2.10	
10	1.18	1.50	2.62	5.00	9.00	27.24	11.38	5.88	3.58	2.94	2.46	2.10	
11	1.18	1.40	2.30	4.78	8.42	36.40	10.02	5.66	3.58	2.94	2.94	2.20	
12	1.12	1.40	2.62	4.56	7.84	28.48	9.68	5.44	3.74	2.94	2.94	2.20	
13	1.18	1.24	2.78	5.00	7.26	55.08	9.00	5.44	5.44	2.94	2.94	2.20	
14	1.18	1.18	2.46	5.88	7.26	40.02	10.02	5.22	4.34	2.94	3.10	2.10	
15	1.30	1.30	3.74	5.22	15.82	56.04	9.00	5.22	3.90	2.94	2.62	2.10	
16	1.18	1.50	3.10	5.00	12.78	48.36	8.71	5.22	3.74	2.94	2.46	1.90	
17	1.30	1.30	2.62	5.22	27.86	33.60	8.42	5.22	3.58	2.94	2.46	2.00	
18	1.24	1.40	3.90	5.66	18.84	27.24	8.13	4.78	3.58	2.94	2.46	2.00	
19	1.18	1.24	3.42	7.55	18.84	23.84	8.13	4.78	3.58	2.94	2.46	2.00	
20	1.18	1.18	4.78	24.38	16.20	20.16	7.84	4.78	3.58	2.62	2.46	2.00	
21	1.12	1.30	4.12	18.40	22.22	18.40	7.84	4.78	3.58	2.62	2.20	2.00	
22	1.24	1.40	3.90	15.44	22.76	16.64	7.26	4.56	3.42	2.62	2.30	1.90	
23	1.12	1.30	4.34	12.40	24.38	15.82	6.97	4.56	3.26	2.62	2.62	1.90	
24	1.12	1.50	4.12	51.24	49.32	14.68	6.97	4.56	3.26	2.62	2.62	1.90	
25	1.12	2.00	12.78	22.76	30.96	24.38	6.68	4.56	3.26	2.62	2.62	2.00	
26	1.12	1.70	22.76	47.39	23.30	16.64	6.39	4.56	3.26	2.62	2.46	1.90	
27	1.12	3.90	64.70	102.69	30.96	16.64	6.10	4.34	3.26	2.46	2.62	1.90	
28	1.06	4.12	17.96	48.36	23.84	17.52	6.10	4.34	3.26	2.30	2.20	2.00	
29	1.06	1.80	13.16	30.96	20.16	19.72	6.10	4.34	3.26	2.30		1.80	
30	1.12	1.50	10.02	24.92	23.30	18.84	6.68	4.34	3.26	2.46		1.70	
31		1.40		19.28	22.22		6.68		3.10	2.46		1.70	
TOTAL	35.52	47.58	219.16	533.59	563.88	909.18	297.24	158.85	115.80	86.82	71.72	62.90	3102.24 CMSDAY
MEAN	1.18	1.53	7.31	17.21	18.19	30.31	9.59	5.29	3.74	2.80	2.56	2.03	8.50 CMS
MAX	1.30	4.12	64.70	102.69	49.32	71.30	17.96	6.68	5.44	3.10	3.10	2.30	102.69 CMS
MIN	1.06	1.06	1.30	4.56	7.26	14.68	6.10	4.34	3.10	2.30	2.20	1.70	1.06 CMS
RUNOFF	3.069	4.111	18.935	46.102	48.719	78.553	25.681	13.725	10.005	7.501	6.197	5.435	268.033 MCM

MOMENTARY PEAK 132.00 CMS, AT 348.70 M (MSL), AT 7.00 HOURS, ON JUL 27, 1980
RUNOFF YIELD 54.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 851.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

YOM RIVER AT BAN NGAO SAK, PHRAE (Y.20)

LOCATION — LAT. 18°-35'-03" N., LONG. 100°-09'-17" E., ON LEFT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM SOP NGAO, TAMBON TAO POON, AMPHOE SONG, PHRAE.

DRAINAGE AREA — 5,410 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +180.976 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +193.552 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

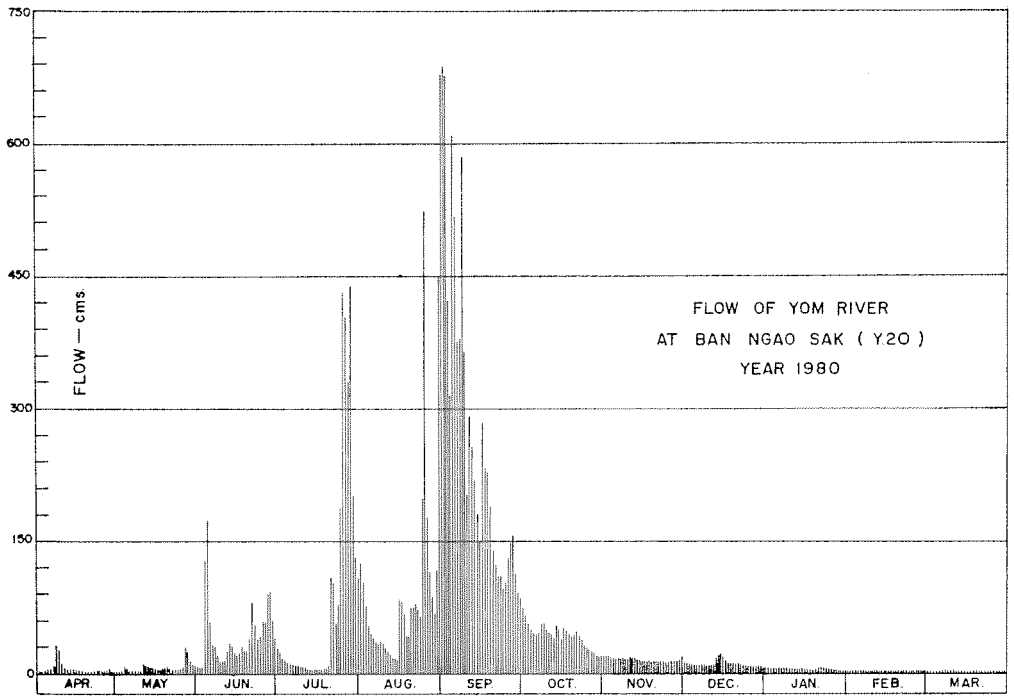
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 155 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	181.51	181.46	181.69	182.18	183.47	186.61	182.93	182.05	181.88	181.72	181.64	181.57	
2	181.49	181.46	181.64	182.11	183.05	186.57	182.82	182.06	181.87	181.73	181.64	181.56	
3	181.50	181.46	183.47	181.97	182.82	184.93	182.70	182.03	181.85	181.70	181.64	181.56	
4	181.54	181.69	183.94	181.91	182.63	185.66	182.60	182.01	181.85	181.70	181.64	181.56	
5	181.56	181.58	182.66	181.85	182.51	186.30	182.51	182.00	181.83	181.70	181.64	181.56	
6	181.65	181.52	182.27	181.80	182.40	185.23	182.47	181.99	181.82	181.70	181.63	181.57	
7	181.69	181.49	182.26	181.78	182.35	185.26	182.50	181.98	181.82	181.70	181.63	181.57	
8	182.26	181.46	182.03	181.76	182.31	186.18	182.66	181.97	181.81	181.69	181.62	181.57	
9	182.08	181.46	181.90	181.71	182.37	184.79	182.66	181.97	181.80	181.68	181.61	181.59	
10	181.77	181.45	181.92	181.68	182.20	184.16	182.59	182.02	181.79	181.68	181.59	181.57	
11	181.66	181.65	181.91	181.63	182.13	184.78	182.54	182.03	181.80	181.68	181.58	181.55	
12	181.62	181.68	182.31	181.66	182.09	184.58	182.50	181.99	181.81	181.68	181.58	181.55	
13	181.58	181.74	182.28	181.63	182.02	184.13	182.43	181.98	182.01	181.67	181.58	181.55	
14	181.58	181.65	182.14	181.64	181.95	184.01	182.64	181.96	182.09	181.67	181.58	181.55	
15	181.57	181.65	182.01	181.66	181.91	183.69	182.52	181.91	182.05	181.67	181.58	181.54	
16	181.54	181.61	182.02	181.65	183.03	184.73	182.41	181.89	181.96	181.66	181.57	181.54	
17	181.53	181.57	182.19	181.64	182.94	184.38	182.61	181.90	181.90	181.66	181.56	181.54	
18	181.52	181.64	182.20	181.64	182.45	184.35	182.52	181.93	181.86	181.66	181.57	181.54	
19	181.50	181.73	182.07	181.68	182.46	183.92	182.49	181.93	181.84	181.66	181.59	181.53	
20	181.50	181.71	182.39	181.71	182.93	183.54	182.43	181.94	181.83	181.68	181.58	181.52	
21	181.49	181.66	183.01	183.31	182.93	183.41	182.58	181.94	181.82	181.70	181.58	181.53	
22	181.49	181.62	182.70	183.21	182.95	183.31	182.52	181.93	181.81	181.69	181.58	181.52	
23	131.49	181.62	182.55	182.65	182.79	183.32	182.46	181.91	181.79	181.67	181.58	181.53	
24	181.49	181.61	182.33	183.21	184.09	183.17	182.38	181.92	181.78	181.67	181.58	181.53	
25	181.48	181.64	182.74	185.53	185.93	183.32	182.23	181.92	181.76	181.66	181.58	181.53	
26	181.48	181.66	182.66	185.36	184.01	183.69	182.18	181.92	181.75	181.65	181.57	181.52	
27	181.54	182.19	183.12	185.00	183.36	183.87	182.16	181.92	181.74	181.65	181.57	181.52	
28	181.57	182.04	183.14	185.54	183.07	183.47	182.11	181.93	181.74	181.65	181.57	181.51	
29	181.50	181.86	182.66	184.38	182.83	183.19	182.07	181.94	181.73	181.64		181.51	
30	181.48	181.80	182.33	183.61	183.70	183.03	182.06	181.89	181.73	181.64		181.51	
31		181.74		183.27	186.56		182.05		181.72	181.64		181.51	
MEAN	181.59	181.65	182.42	182.59	182.98	184.39	182.46	181.96	181.83	181.68	181.59	181.54	
MAX	182.26	182.18	183.94	185.54	186.56	186.61	182.93	182.06	182.09	181.73	181.64	181.59	186.61
MIN	181.48	181.45	181.64	181.63	181.91	183.03	182.05	181.89	181.72	181.64	181.56	181.51	181.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 187.51 M (MSL), AT 17.00 HOURS, ON AUG 31, 1980
ZERO GAGE AT BOTTOM ELEVATION 180.98 M (MSL), RIVER BED 180.47 M (MSL)
LEFT BANK ELEVATION 193.55 M (MSL)
RIGHT BANK ELEVATION 193.88 M (MSL), DRAINAGE AREA 5410 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.66	0.84	6.70	27.00	122.00	685.59	74.40	20.50	12.40	7.60	5.20	3.22	
2	1.26	0.84	5.20	23.50	84.00	675.50	65.60	21.00	12.10	7.90	5.20	2.96	
3	1.40	0.84	122.00	16.50	65.60	317.39	57.00	19.50	11.50	7.00	5.20	2.96	
4	2.44	6.70	173.80	13.50	52.10	463.20	50.00	18.50	11.50	7.00	5.20	2.96	
5	2.96	3.48	54.20	11.50	44.60	608.99	44.60	18.00	10.90	7.00	5.20	2.96	
6	5.50	1.92	31.50	10.00	38.00	373.35	42.20	17.50	10.60	7.00	4.90	3.22	
7	6.70	1.26	31.00	9.40	35.50	379.20	44.00	17.00	10.60	7.00	4.90	3.22	
8	31.00	0.84	19.50	8.80	33.50	581.39	54.20	16.50	10.30	6.70	4.60	3.22	
9	22.00	0.84	13.00	7.30	36.50	293.30	54.20	16.50	10.00	6.40	4.30	3.74	
10	9.10	0.70	14.00	6.40	28.00	200.80	49.40	19.00	9.70	6.40	3.74	3.22	
11	5.80	11.50	13.50	6.40	24.50	291.60	46.40	19.50	10.00	6.40	3.48	2.70	
12	4.60	6.40	33.50	5.80	22.50	259.20	44.00	17.50	10.30	6.40	3.48	2.70	
13	3.48	8.20	32.00	4.90	19.00	196.90	39.80	17.00	18.50	6.10	3.48	2.70	
14	3.48	5.50	25.00	5.20	15.50	182.20	52.80	16.00	22.50	6.10	3.48	2.70	
15	3.22	5.50	18.50	5.80	13.50	144.90	45.20	13.50	20.50	6.10	3.48	2.44	
16	2.44	4.30	19.00	5.50	82.40	283.10	38.60	12.70	16.00	5.80	3.22	2.44	
17	2.18	3.22	27.50	5.20	75.20	231.20	50.70	13.00	13.00	5.80	2.96	2.44	
18	1.92	5.20	28.00	5.20	41.00	227.00	45.20	14.50	11.80	5.80	3.22	2.44	
19	1.40	7.90	21.50	6.40	41.60	171.40	43.40	14.50	11.20	5.80	3.74	2.18	
20	1.40	7.30	37.50	7.30	74.40	129.00	39.80	15.00	10.90	6.40	3.48	1.92	
21	1.26	5.80	80.80	106.00	74.40	116.00	48.80	15.00	10.60	7.00	3.48	2.18	
22	1.26	4.60	57.00	96.90	76.00	106.00	45.20	14.50	10.30	6.70	3.48	1.92	
23	1.26	4.60	47.00	53.50	63.30	107.00	41.60	13.50	9.70	6.10	3.48	2.18	
24	1.26	4.30	34.50	96.90	191.80	93.60	37.00	14.00	9.40	6.10	3.48	2.18	
25	1.12	5.20	59.80	435.30	523.89	107.00	29.50	14.00	8.80	5.80	3.48	2.18	
26	1.12	5.80	54.20	399.59	182.20	144.90	27.00	14.00	8.50	5.50	3.22	1.92	
27	2.44	27.00	89.60	330.00	111.00	165.40	26.00	14.00	8.20	5.50	3.22	1.92	
28	3.22	20.00	91.20	437.40	85.60	122.00	23.50	14.50	8.20	5.50	3.22	1.66	
29	1.40	11.80	54.20	231.20	66.40	95.20	21.50	15.00	7.90	5.20		1.66	
30	1.12	10.00	34.50	136.10	146.00	82.40	21.00	12.70	7.90	5.20		1.66	
31		8.20		102.30	673.00		20.50		7.60	5.20		1.66	
TOTAL	129.40	190.58	1329.70	2616.79	3142.99	7834.70	1323.10	478.40	351.40	194.50	109.52	77.46	17778.52 CMSDAY
MEAN	4.31	6.15	44.32	84.41	101.39	261.16	42.68	15.95	11.34	6.27	3.91	2.50	48.71 CMS
MAX	31.00	27.00	173.80	437.40	673.00	685.59	74.40	21.00	22.50	7.90	5.20	3.74	685.59 CMS
MIN	1.12	0.70	5.20	4.90	13.50	82.40	20.50	12.70	7.60	5.20	2.96	1.66	0.70 CMS
RUNOFF	11.180	16.466	114.886	226.091	271.554	676.918	114.316	41.334	30.361	16.805	9.463	6.693	1536.064 MCM

MOMENTARY PEAK 936.90 CMS, AT 187.51 M (MSL), AT 17.00 HOURS, ON AUG 31, 1980

RUNOFF YIELD, 9.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 173.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

NAM PI AT BAN MANG, PHAYAO (Y.24)

LOCATION — LAT. 18°-53'-04" N., LONG. 100°-17'-24" E., ON RIGHT BANK UPSTREAM OF THE BRIDGE OF PONG SANUK-CHIANG MUAN ROAD, BAN MANG, AMPHOE CHIANG MUAN, PHAYAO.

DRAINAGE AREA — 597 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +7.035 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

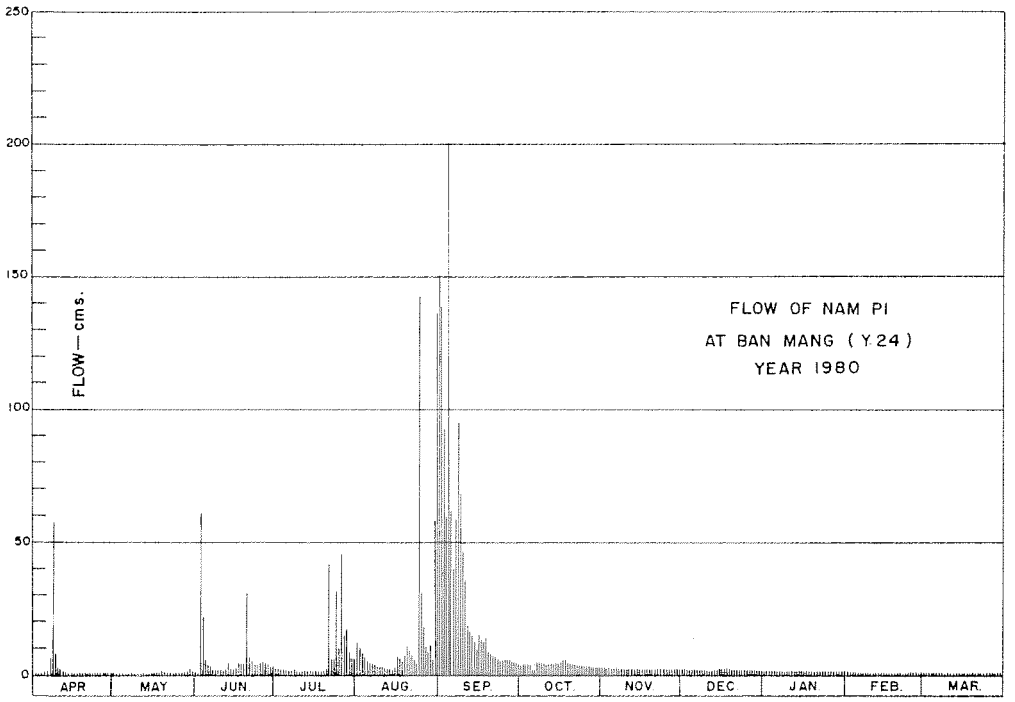
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	0.79	1.00	1.15	1.74	3.62	1.30	1.21	1.15	1.11	1.04	0.96	
2	0.75	0.78	0.97	1.16	1.66	3.32	1.31	1.20	1.15	1.10	1.03	0.95	
3	0.76	0.79	2.69	1.14	1.57	2.68	1.33	1.19	1.14	1.10	1.03	0.94	
4	0.79	0.78	1.51	1.11	1.45	4.37	1.33	1.18	1.14	1.09	1.01	0.94	
5	0.94	0.79	1.30	1.07	1.37	2.68	1.31	1.18	1.14	1.09	1.01	0.96	
6	0.90	0.79	1.27	1.08	1.34	2.37	1.29	1.19	1.13	1.08	1.01	0.96	
7	1.62	0.85	1.19	1.04	1.29	2.66	1.37	1.19	1.13	1.07	1.02	1.01	
8	2.64	0.85	1.10	1.09	1.24	2.99	1.39	1.19	1.12	1.07	1.02	1.00	
9	1.30	0.85	1.12	1.09	1.21	2.54	1.39	1.18	1.12	1.06	1.02	0.96	
10	1.11	0.84	1.10	0.86	1.22	2.31	1.35	1.18	1.11	1.06	1.01	0.95	
11	1.04	0.93	1.07	1.08	1.19	2.08	1.31	1.18	1.10	1.06	1.01	0.94	
12	1.02	0.92	1.08	1.08	1.14	1.90	1.35	1.18	1.09	1.06	1.00	0.92	
13	1.00	0.92	1.35	1.08	1.14	1.83	1.34	1.17	1.11	1.05	0.98	0.92	
14	0.98	0.91	1.11	1.09	1.14	1.75	1.36	1.16	1.14	1.07	0.97	0.93	
15	0.94	0.91	1.09	1.09	1.12	1.67	1.31	1.16	1.15	1.07	0.96	0.92	
16	0.92	0.89	1.11	1.09	1.51	1.84	1.40	1.15	1.13	1.07	0.95	0.90	
17	0.93	0.88	1.35	1.09	1.43	1.76	1.49	1.15	1.13	1.07	0.95	0.92	
18	0.92	1.02	1.34	1.09	1.36	1.82	1.50	1.14	1.12	1.06	0.96	0.93	
19	0.91	1.05	1.27	1.10	1.73	1.69	1.37	1.14	1.12	1.06	0.99	0.95	
20	0.90	0.94	2.20	1.10	1.69	1.60	1.35	1.16	1.11	1.05	0.98	0.95	
21	0.89	0.93	1.50	2.40	1.59	1.56	1.33	1.18	1.10	1.04	0.97	0.96	
22	0.88	0.90	1.38	1.50	1.48	1.53	1.32	1.20	1.10	1.05	0.97	0.96	
23	0.85	0.93	1.30	1.45	1.30	1.48	1.29	1.20	1.11	1.05	0.97	0.97	
24	0.88	0.95	1.23	2.22	3.55	1.44	1.29	1.19	1.13	1.04	0.98	0.97	
25	0.85	0.95	1.38	1.65	2.08	1.50	1.27	1.19	1.12	1.04	0.98	0.96	
26	0.85	0.90	1.37	2.45	1.77	1.49	1.25	1.18	1.12	1.04	0.98	0.95	
27	0.85	1.02	1.36	1.83	1.57	1.44	1.25	1.18	1.11	1.03	0.97	0.94	
28	0.83	0.96	1.32	1.90	1.76	1.42	1.24	1.17	1.10	1.03	0.97	0.94	
29	0.81	1.12	1.21	1.59	1.48	1.38	1.23	1.18	1.09	1.02		0.95	
30	0.80	1.04	1.20	1.50	2.41	1.33	1.21	1.18	1.12	1.02		0.95	
31		1.02		1.45	3.49		1.23		1.11	1.02		0.94	
MEAN	0.99	0.91	1.32	1.34	1.61	2.07	1.32	1.18	1.12	1.06	0.99	0.95	
MAX	2.64	1.12	2.69	2.45	3.55	4.37	1.50	1.21	1.15	1.11	1.04	1.01	4.37
MIN	0.75	0.78	0.97	0.86	1.12	1.33	1.21	1.14	1.09	1.02	0.95	0.90	0.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.00 M (A.D), AT 5.00 HOURS, ON SEP 4, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.21 M (A.D)

LEFT BANK ELEVATION 7.83 M (A.D)

RIGHT BANK ELEVATION 8.38 M (A.D), DRAINAGE AREA 597 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.80	2.30	11.20	150.50	3.80	2.90	2.30	1.90	1.20	0.64	
2	0.00	0.00	0.68	2.40	9.12	116.20	3.90	2.80	2.30	1.80	1.10	0.60	
3	0.00	0.00	60.30	2.20	7.26	59.60	4.10	2.70	2.20	1.80	1.10	0.56	
4	0.00	0.00	6.18	1.90	5.40	265.30	4.10	2.60	2.20	1.70	0.90	0.56	
5	0.56	0.00	3.80	1.50	4.50	59.60	3.90	2.60	2.20	1.70	0.90	0.64	
6	0.40	0.00	3.50	1.60	4.20	39.20	3.70	2.70	2.10	1.60	0.90	0.64	
7	8.24	0.20	2.70	1.20	3.70	58.20	4.50	2.70	2.10	1.50	1.00	0.90	
8	56.80	0.20	1.80	1.70	3.20	84.15	4.70	2.70	2.00	1.50	1.00	0.80	
9	3.80	0.20	2.00	1.70	2.90	49.80	4.70	2.60	2.00	1.40	1.00	0.64	
10	1.90	0.16	1.80	0.24	3.00	35.60	4.30	2.60	1.90	1.40	0.90	0.60	
11	1.20	0.52	1.50	1.60	2.70	24.10	3.90	2.60	1.80	1.40	0.90	0.56	
12	1.00	0.48	1.60	1.60	2.20	16.50	4.30	2.60	1.70	1.40	0.80	0.48	
13	0.80	0.48	4.30	1.60	2.20	14.05	4.20	2.50	1.90	1.30	0.72	0.48	
14	0.72	0.44	1.90	1.70	2.20	11.50	4.40	2.40	2.20	1.50	0.68	0.52	
15	0.56	0.44	1.70	1.70	2.00	9.34	3.90	2.40	2.30	1.50	0.64	0.48	
16	0.48	0.36	1.90	1.70	6.18	14.40	4.80	2.30	2.10	1.50	0.60	0.40	
17	0.52	0.32	4.30	1.70	5.16	11.80	5.88	2.30	2.10	1.50	0.60	0.48	
18	0.48	1.00	4.20	1.70	4.40	13.70	6.00	2.20	2.00	1.40	0.64	0.52	
19	0.44	1.30	3.50	1.80	10.90	9.78	4.50	2.20	2.00	1.40	0.76	0.60	
20	0.40	0.56	30.00	1.80	9.78	7.80	4.30	2.40	1.90	1.30	0.72	0.60	
21	0.36	0.52	6.00	41.00	7.62	7.08	4.10	2.60	1.80	1.20	0.68	0.64	
22	0.32	0.40	4.60	6.00	5.76	6.54	4.00	2.80	1.80	1.30	0.68	0.64	
23	0.20	0.52	3.80	5.40	3.80	5.76	3.70	2.80	1.90	1.30	0.68	0.68	
24	0.32	0.60	3.10	31.00	142.00	5.28	3.70	2.70	2.10	1.20	0.72	0.68	
25	0.20	0.60	4.60	8.90	24.10	6.00	3.50	2.70	2.00	1.20	0.72	0.64	
26	0.20	0.40	4.50	44.00	12.10	5.88	3.30	2.60	2.00	1.20	0.72	0.60	
27	0.20	1.00	4.40	14.05	7.26	5.28	3.30	2.60	1.90	1.10	0.68	0.56	
28	0.12	0.64	4.00	16.50	11.80	5.04	3.20	2.50	1.80	1.10	0.68	0.56	
29	0.04	2.00	2.90	7.62	5.76	4.60	3.10	2.60	1.70	1.00		0.60	
30	0.00	1.20	2.80	6.00	41.60	4.10	2.90	2.60	2.00	1.00		0.60	
31		1.00		5.40	134.90		3.10		1.90	1.00		0.56	
TOTAL	80.26	15.54	179.16	219.51	498.90	1106.68	125.78	77.30	62.20	43.10	22.62	18.46	2449.50 CMSDAY
MEAN	2.68	0.50	5.97	7.08	16.09	36.89	4.06	2.58	2.01	1.39	0.81	0.60	6.71 CMS
MAX	56.80	2.00	60.30	44.00	142.00	265.30	6.00	2.90	2.30	1.90	1.20	0.90	265.30 CMS
MIN	0.00	0.00	0.68	0.24	2.00	4.10	2.90	2.20	1.70	1.00	0.60	0.40	0.00 CMS
RUNOFF	6.934	1.343	15.479	18.966	43.105	95.617	10.867	6.679	5.374	3.724	1.954	1.595	211.637 MCM

MOMENTARY PEAK ******** CMS, AT 6.00 M (A.D), AT 5.00 HOURS, ON SEP 4, 1980

RUNOFF YIELD 11.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ******** LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

NAM MAE SUAT AT BAN PA KHA NOI, NAN (Y.25)

LOCATION — LAT. 18°-50'-28" N., LONG. 100°-25'-55" E., ON LEFT BANK AT THE BRIDGE OF PHAYAO-NAN HIGHWAY AND ABOUT 1.5 KILOMETERS FROM KING AMPHOE BAN LUANG, TAMBON PA KHA LUANG KING AMPHOE BAN LUANG, NAN.

DRAINAGE AREA — 203 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ON LEFT BANK ABOUT 6 KILOMETERS FROM THE ABUTMENT OF THE BRIDGE.

ELEVATION — +4.637 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1980 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — STREAM GAGING BEGAN ON APRIL 24, 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

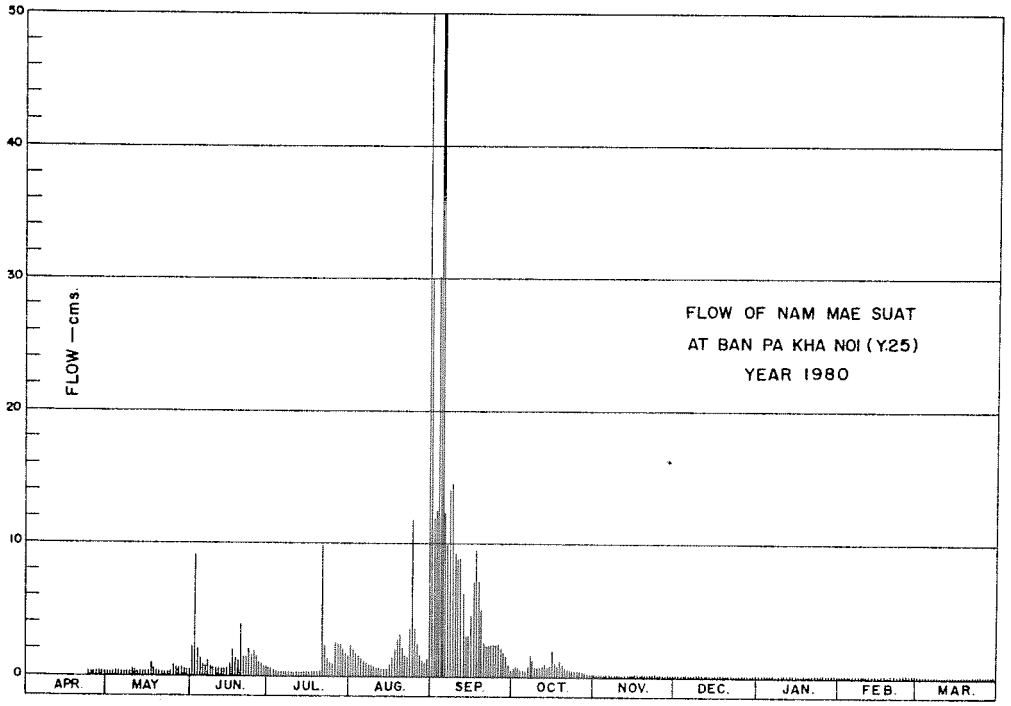
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.20	0.21	0.24	0.39	0.74	0.23	0.13	0.10	0.06	0.04	-0.01	
2	*******	0.20	0.51	0.22	0.36	0.76	0.26	0.13	0.10	0.06	0.04	-0.01	
3	*******	0.20	0.67	0.22	0.35	1.15	0.24	0.12	0.09	0.06	0.04	-0.01	
4	*******	0.20	0.43	0.21	0.34	1.76	0.22	0.12	0.09	0.06	0.04	-0.01	
5	*******	0.21	0.33	0.21	0.32	0.77	0.22	0.13	0.09	0.06	0.04	-0.01	
6	*******	0.21	0.30	0.20	0.31	0.68	0.22	0.12	0.09	0.06	0.02	-0.02	
7	*******	0.20	0.27	0.20	0.30	0.79	0.28	0.12	0.09	0.06	0.02	-0.01	
8	*******	0.21	0.31	0.20	0.28	0.81	0.34	0.12	0.09	0.06	0.03	-0.01	
9	*******	0.21	0.25	0.20	0.27	0.69	0.27	0.12	0.08	0.06	0.04	-0.01	
10	*******	0.21	0.24	0.19	0.25	0.65	0.26	0.12	0.08	0.05	0.04	-0.01	
11	*******	0.22	0.24	0.19	0.24	0.65	0.24	0.12	0.07	0.05	0.03	-0.01	
12	*******	0.20	0.24	0.19	0.24	0.61	0.27	0.12	0.07	0.05	0.03	-0.01	
13	*******	0.20	0.25	0.19	0.24	0.56	0.30	0.12	0.08	0.05	0.03	-0.01	
14	*******	0.20	0.23	0.19	0.23	0.51	0.27	0.12	0.08	0.05	0.03	-0.01	
15	*******	0.21	0.23	0.19	0.22	0.53	0.26	0.12	0.08	0.04	0.02	-0.02	
16	*******	0.20	0.29	0.19	0.30	0.58	0.37	0.12	0.08	0.04	0.02	-0.02	
17	*******	0.20	0.37	0.20	0.34	0.67	0.29	0.12	0.08	0.04	0.02	-0.02	
18	*******	0.29	0.34	0.19	0.41	0.63	0.27	0.12	0.07	0.04	0.02	-0.01	
19	*******	0.21	0.31	0.21	0.52	0.56	0.32	0.12	0.06	0.04	0.02	-0.01	
20	*******	0.21	0.53	0.21	0.45	0.52	0.27	0.12	0.06	0.04	0.02	-0.01	
21	*******	0.20	0.35	0.68	0.35	0.49	0.26	0.12	0.06	0.03	0.01	-0.01	
22	*******	0.20	0.32	0.50	0.32	0.45	0.24	0.13	0.06	0.03	0.01	-0.01	
23	*******	0.20	0.37	0.31	0.40	0.42	0.23	0.13	0.06	0.03	0.01	-0.01	
24	0.20	0.19	0.33	0.30	0.74	0.44	0.22	0.12	0.06	0.04	0.01	-0.01	
25	0.20	0.20	0.36	0.27	0.53	0.43	0.21	0.12	0.06	0.03	0.01	-0.01	
26	0.20	0.28	0.34	0.40	0.40	0.45	0.21	0.12	0.06	0.03	0.01	-0.01	
27	0.20	0.24	0.31	0.42	0.34	0.37	0.20	0.12	0.06	0.03	0.01	-0.01	
28	0.20	0.25	0.29	0.41	0.32	0.35	0.20	0.11	0.06	0.03	0.01	-0.01	
29	0.20	0.24	0.28	0.37	0.30	0.31	0.16	0.11	0.06	0.03		-0.02	
30	0.20	0.23	0.25	0.35	0.36	0.24	0.13	0.10	0.06	0.03		-0.02	
31		0.22		0.34	1.50		0.13		0.06	0.03		-0.02	
MEAN	*******	0.21	0.32	0.27	0.38	0.62	0.24	0.12	0.07	0.04	0.02	-0.01	
MAX	0.20	0.29	0.67	0.68	1.50	1.76	0.37	0.13	0.10	0.06	0.04	-0.01	1.76
MIN	*******	0.19	0.21	0.19	0.22	0.24	0.13	0.10	0.06	0.03	0.01	-0.02	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.45 M (A.D.), AT 1.00 HOURS, ON SEP 4, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.24 M (A.D.)

LEFT BANK ELEVATION 6.32 M (A.D.)

RIGHT BANK ELEVATION 6.30 M (A.D.), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.30	0.36	0.54	2.25	11.78	0.48	0.16	0.10	0.08	0.07	0.04	
2	*******	0.30	4.86	0.42	1.80	12.52	0.66	0.16	0.10	0.08	0.07	0.04	
3	*******	0.30	9.37	0.42	1.65	30.00	0.54	0.14	0.09	0.08	0.07	0.04	
4	*******	0.30	3.06	0.36	1.50	80.08	0.42	0.14	0.09	0.08	0.07	0.04	
5	*******	0.36	1.35	0.36	1.20	12.89	0.42	0.16	0.09	0.08	0.07	0.04	
6	*******	0.36	0.90	0.30	1.05	9.68	0.42	0.14	0.09	0.08	0.06	0.04	
7	*******	0.30	0.72	0.30	0.90	13.63	0.78	0.14	0.09	0.08	0.06	0.04	
8	*******	0.36	1.05	0.30	0.78	14.37	1.50	0.14	0.09	0.08	0.06	0.04	
9	*******	0.36	0.60	0.30	0.72	9.99	0.72	0.14	0.09	0.08	0.07	0.04	
10	*******	0.36	0.54	0.28	0.60	8.75	0.66	0.14	0.09	0.07	0.07	0.04	
11	*******	0.42	0.54	0.28	0.54	8.75	0.54	0.14	0.08	0.07	0.06	0.04	
12	*******	0.30	0.54	0.28	0.54	7.51	0.72	0.14	0.08	0.07	0.06	0.04	
13	*******	0.30	0.60	0.28	0.54	6.16	0.90	0.14	0.09	0.07	0.06	0.04	
14	*******	0.30	0.48	0.28	0.48	4.86	0.72	0.14	0.09	0.07	0.06	0.04	
15	*******	0.36	0.48	0.28	0.42	5.38	0.66	0.14	0.09	0.07	0.06	0.04	
16	*******	0.30	0.84	0.28	0.90	6.68	1.95	0.14	0.09	0.07	0.06	0.04	
17	*******	0.30	1.95	0.30	1.50	9.37	0.84	0.14	0.09	0.07	0.06	0.04	
18	*******	0.84	1.50	0.28	2.62	8.13	0.72	0.14	0.08	0.07	0.06	0.04	
19	*******	0.36	1.05	0.36	5.12	6.16	1.20	0.14	0.08	0.07	0.06	0.04	
20	*******	0.36	5.38	0.36	3.50	5.12	0.72	0.14	0.08	0.07	0.06	0.04	
21	*******	0.30	1.65	9.68	1.65	4.38	0.66	0.14	0.08	0.06	0.05	0.04	
22	*******	0.30	1.20	4.60	1.20	3.50	0.54	0.16	0.08	0.06	0.05	0.04	
23	*******	0.30	1.95	1.05	2.40	2.84	0.48	0.16	0.08	0.06	0.05	0.04	
24	0.30	0.28	1.35	0.90	11.78	3.28	0.42	0.14	0.08	0.07	0.05	0.04	
25	0.30	0.30	1.80	0.72	5.38	3.06	0.36	0.14	0.08	0.06	0.05	0.04	
26	0.30	0.78	1.50	2.40	2.40	3.50	0.36	0.14	0.08	0.06	0.05	0.04	
27	0.30	0.54	1.05	2.84	1.50	1.95	0.30	0.14	0.08	0.06	0.05	0.04	
28	0.30	0.60	0.84	2.62	1.20	1.65	0.30	0.12	0.08	0.06	0.05	0.04	
29	0.30	0.54	0.78	1.95	0.90	1.05	0.22	0.12	0.08	0.06		0.04	
30	0.30	0.48	0.60	1.65	1.80	0.54	0.16	0.10	0.08	0.06		0.04	
31		0.42		1.50	54.80		0.16		0.08	0.06		0.04	
TOTAL	*******	11.98	48.89	36.47	113.62	297.56	19.53	4.22	2.65	2.16	1.67	1.24	******** CMSDAY
MEAN	*******	0.39	1.63	1.18	3.67	9.92	0.63	0.14	0.09	0.07	0.06	0.04	******* CMS
MAX	0.30	0.84	9.37	9.68	54.80	80.08	1.95	0.16	0.10	0.08	0.07	0.04	80.08 CMS
MIN	*******	0.28	0.36	0.28	0.42	0.54	0.16	0.10	0.08	0.06	0.05	0.04	******* CMS
RUNOFF	*******	1.035	4.224	3.151	9.817	25.709	1.687	0.365	0.229	0.187	0.144	0.107	******** MCM

MOMENTARY PEAK ******** CMS, AT 4.45 M (A.D), AT 1.00 HOURS, ON SEP 4, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1980

YOM RIVER BASIN

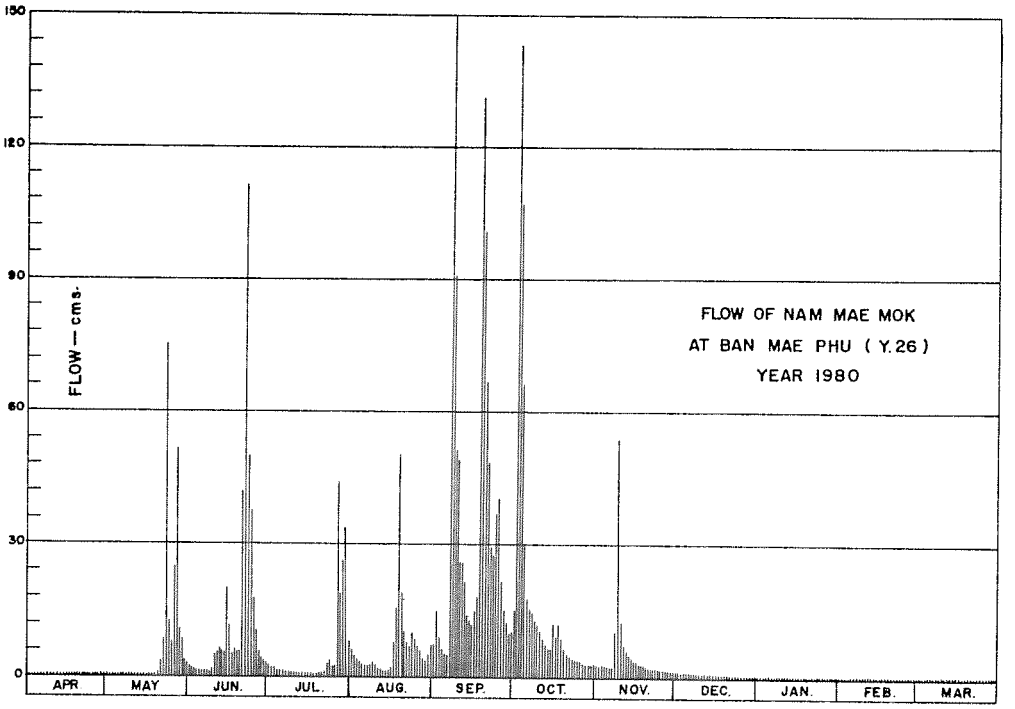
NAM MAE MOK AT BAN MAE PHU, LAMPANG (Y.26)

LOCATION	LAT. 17°-19'-45" N., LONG. 99°-27'-42" E., ON LEFT BANK DOWNSTREAM FROM BAN MAE PHU, TAMBON WIANG MOK, AMPHOE THOEN, LAMPANG.
DRAINAGE AREA	785 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-M.D.
LOCATION	ON LEFT BANK ALONG THE GAGE LINE.
ELEVATION	+8.00 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 63 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.07	1.13	1.16	1.45	1.52	1.94	1.15	1.04	0.87	0.83	0.75	
2	0.21	0.07	1.08	1.12	1.38	1.92	2.01	1.14	1.02	0.87	0.83	0.75	
3	0.20	0.06	1.05	1.10	1.30	1.64	4.56	1.16	1.02	0.87	0.83	0.75	
4	0.20	0.05	1.04	1.05	1.26	1.46	3.46	1.15	1.01	0.87	0.82	0.74	
5	0.22	0.05	1.04	1.03	1.21	1.43	2.48	1.13	1.01	0.87	0.82	0.74	
6	0.22	0.04	1.03	1.02	1.17	1.36	2.05	1.13	1.00	0.87	0.82	0.73	
7	0.20	0.03	1.02	1.01	1.16	4.56	1.94	1.13	1.00	0.87	0.82	0.73	
8	0.19	0.03	1.02	0.99	1.16	4.76	1.92	1.71	0.99	0.87	0.81	0.72	
9	0.19	0.03	1.00	0.99	1.24	2.99	1.79	3.06	0.98	0.87	0.81	0.72	
10	0.18	0.03	1.19	0.98	1.17	2.95	1.77	1.89	0.97	0.87	0.81	0.72	
11	0.18	0.04	1.45	0.97	1.12	2.32	1.67	1.61	0.96	0.86	0.80	0.71	
12	0.17	0.03	1.42	0.96	1.06	2.32	1.61	1.47	0.95	0.86	0.80	0.71	
13	0.17	0.02	1.50	0.95	1.05	1.92	1.54	1.40	0.94	0.86	0.79	0.71	
14	0.16	0.02	1.37	0.95	1.04	1.85	1.48	1.38	0.94	0.85	0.79	0.71	
15	0.16	0.01	2.09	0.94	1.03	1.77	1.45	1.29	0.94	0.85	0.78	0.71	
16	0.15	0.01	1.69	0.94	1.03	1.91	1.80	1.24	0.93	0.85	0.78	0.70	
17	0.15	0.00	1.34	0.94	1.71	2.04	1.63	1.21	0.93	0.85	0.78	0.69	
18	0.14	-0.01	1.48	0.93	2.04	2.70	1.79	1.18	0.93	0.85	0.77	0.68	
19	0.14	-0.02	1.42	0.93	2.98	4.39	1.61	1.16	0.92	0.85	0.77	0.66	
20	0.13	0.09	1.46	0.95	1.99	3.69	1.48	1.13	0.92	0.85	0.77	0.65	
21	0.13	1.30	3.56	0.97	1.67	2.94	1.41	1.13	0.91	0.85	0.77	0.63	
22	0.12	1.62	4.12	1.00	1.52	2.45	1.38	1.12	0.90	0.85	0.77	0.61	
23	0.12	3.51	2.96	1.20	1.51	2.37	1.32	1.11	0.89	0.85	0.76	0.60	
24	0.11	1.91	2.65	1.27	1.69	2.65	1.32	1.10	0.87	0.85	0.76	0.60	
25	0.10	1.56	2.00	1.13	1.59	2.74	1.27	1.08	0.87	0.85	0.76	0.59	
26	0.09	2.28	1.69	1.10	1.51	2.20	1.25	1.08	0.88	0.85	0.76	0.59	
27	0.09	3.01	1.45	2.83	1.40	1.94	1.20	1.07	0.88	0.85	0.76	0.58	
28	0.08	1.76	1.35	2.07	1.33	1.84	1.18	1.06	0.86	0.84	0.76	0.57	
29	0.08	1.61	1.26	2.56	1.26	1.71	1.17	1.05	0.85	0.84		0.56	
30	0.08	1.31	1.19	2.11	1.34	1.68	1.17	1.04	0.87	0.84		0.56	
31		1.20		1.61	1.54		1.16		0.87	0.84		0.55	
MEAN	0.15	0.70	1.60	1.22	1.42	2.40	1.74	1.29	0.94	0.86	0.79	0.67	
MAX	0.22	3.51	4.12	2.83	2.98	4.76	4.56	3.06	1.04	0.87	0.83	0.75	4.76
MIN	0.08	-0.02	1.00	0.93	1.03	1.36	1.16	1.04	0.85	0.84	0.76	0.55	-0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.07 M (A.D), AT 24.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION M (A.D)
RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 785 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	2.27	2.54	5.75	6.80	15.04	2.45	1.46	0.38	0.22	0.00	
2	0.00	0.00	1.82	2.18	4.76	14.52	16.86	2.36	1.28	0.38	0.22	0.00	
3	0.00	0.00	1.55	2.00	3.80	8.80	143.50	2.54	1.28	0.38	0.22	0.00	
4	0.00	0.00	1.46	1.55	3.44	5.90	72.50	2.45	1.19	0.38	0.18	0.00	
5	0.00	0.00	1.46	1.37	2.99	5.45	30.80	2.27	1.19	0.38	0.18	0.00	
6	0.00	0.00	1.37	1.28	2.63	4.52	17.90	2.27	1.10	0.38	0.18	0.00	
7	0.00	0.00	1.28	1.19	2.54	143.50	15.04	2.27	1.10	0.38	0.18	0.00	
8	0.00	0.00	1.28	1.04	2.54	159.30	14.52	10.20	1.04	0.38	0.14	0.00	
9	0.00	0.00	1.10	1.04	3.26	50.55	11.80	53.70	0.98	0.38	0.14	0.00	
10	0.00	0.00	2.81	0.98	2.63	48.75	11.40	13.80	0.92	0.38	0.14	0.00	
11	0.00	0.00	5.75	0.92	2.18	25.60	9.40	8.20	0.86	0.34	0.10	0.00	
12	0.00	0.00	5.30	0.86	1.64	23.60	8.20	6.05	0.80	0.34	0.10	0.00	
13	0.00	0.00	6.50	0.80	1.55	14.52	7.10	5.00	0.74	0.34	0.08	0.00	
14	0.00	0.00	4.64	0.80	1.46	13.00	6.20	4.76	0.74	0.30	0.08	0.00	
15	0.00	0.00	18.94	0.74	1.37	11.40	5.75	3.71	0.74	0.30	0.06	0.00	
16	0.00	0.00	9.80	0.74	1.37	14.26	12.00	3.26	0.68	0.30	0.06	0.00	
17	0.00	0.00	4.28	0.74	10.20	17.64	8.60	2.99	0.68	0.30	0.06	0.00	
18	0.00	0.00	6.20	0.68	17.64	38.50	11.80	2.72	0.68	0.30	0.04	0.00	
19	0.00	0.00	5.30	0.68	50.10	130.75	8.20	2.54	0.62	0.30	0.04	0.00	
20	0.00	0.00	5.90	0.80	16.34	84.95	6.20	2.27	0.62	0.30	0.04	0.00	
21	0.00	3.80	77.80	0.92	9.40	48.30	5.15	2.27	0.56	0.30	0.04	0.00	
22	0.00	8.40	111.30	1.10	6.80	29.75	4.76	2.18	0.50	0.30	0.04	0.00	
23	0.00	75.05	49.20	2.90	6.65	27.10	4.04	2.09	0.46	0.30	0.02	0.00	
24	0.00	14.26	36.75	3.53	9.80	36.75	4.04	2.00	0.38	0.30	0.02	0.00	
25	0.00	7.40	16.60	2.27	7.85	40.10	3.53	1.82	0.38	0.30	0.02	0.00	
26	0.00	24.40	9.80	2.00	6.65	22.00	3.35	1.82	0.42	0.30	0.02	0.00	
27	0.00	51.45	5.75	43.70	5.00	15.04	2.90	1.73	0.42	0.30	0.02	0.00	
28	0.00	11.20	4.40	18.42	4.16	12.80	2.72	1.64	0.34	0.26	0.02	0.00	
29	0.00	8.20	3.44	33.60	3.44	10.20	2.63	1.55	0.30	0.26		0.00	
30	0.00	3.92	2.81	19.48	4.28	9.60	2.63	1.46	0.38	0.26		0.00	
31		2.90		8.20	7.10		2.54		0.38	0.26		0.00	
TOTAL	0.00	210.98	406.86	159.05	209.32	1075.95	471.10	154.37	23.22	10.06	2.66	0.00	2723.57 CMSDAY
MEAN	0.00	6.81	13.56	5.13	6.75	35.86	15.20	5.15	0.75	0.32	0.09	0.00	7.46 CMS
MAX	0.00	75.05	111.30	43.70	50.10	159.30	143.50	53.70	1.46	0.38	0.22	0.00	159.30 CMS
MIN	0.00	0.00	1.10	0.68	1.37	4.52	2.54	1.46	0.30	0.26	0.02	0.00	0.00 CMS
RUNOFF	0.000	18.229	35.153	13.742	18.085	92.962	40.703	13.338	2.006	0.869	0.230	0.000	235.316 MCM

MOMENTARY PEAK 385.70 CMS, AT 7.07 M (A.D), AT 24.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 9.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 491.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

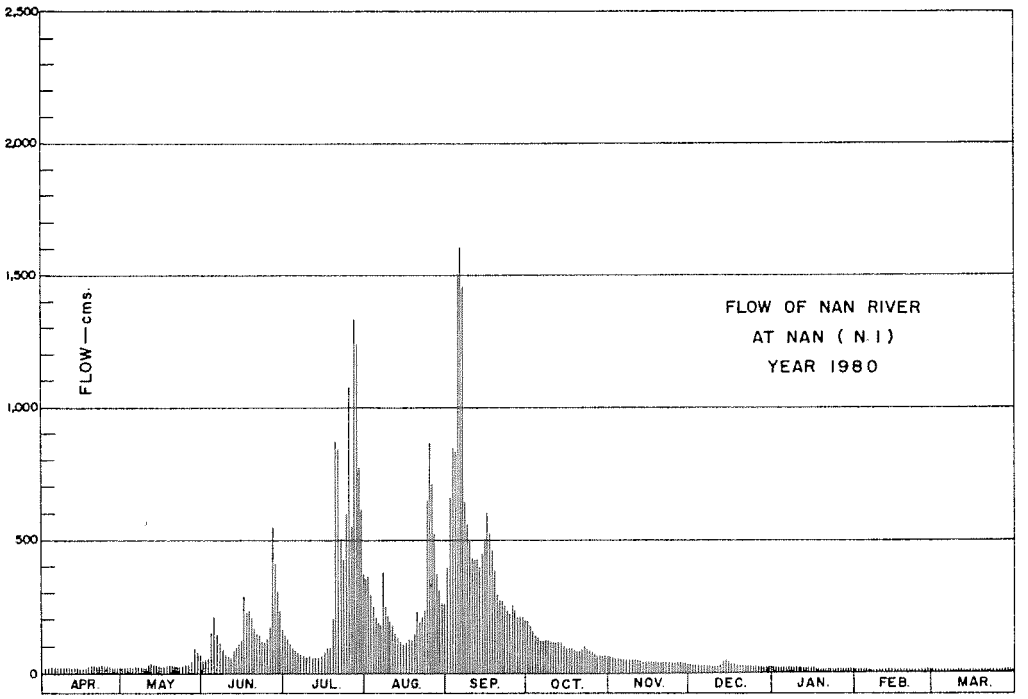
NAN RIVER AT NAN, NAN (N.1)

LOCATION	LAT. 18°-46'-23" N., LONG. 100°-46'-51" E., ON RIGHT BANK INFRONT OF FORESTRY OFFICE, AMPHOE MUANG, NAN.
DRAINAGE AREA	4,609 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+192.17 M. (M.S.L.)
BENCH MARK	B.M.-R.I.D.
LOCATION	ON WEST SIDE OF AUTOMATIC GAGE BUILDING.
ELEVATION	+199.204 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1922-1956, 1962 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1956, 1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1956, 1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	192.87	192.90	193.18	193.95	195.04	195.93	194.23	193.35	193.07	192.99	192.85	192.76	
2	192.87	192.89	193.24	193.83	194.81	196.64	194.11	193.33	193.06	192.98	192.85	192.76	
3	192.87	192.89	193.92	193.71	194.66	196.61	194.00	193.29	193.05	192.98	192.85	192.76	
4	192.87	192.89	194.41	193.59	194.47	197.93	193.91	193.27	193.04	192.97	192.85	192.76	
5	192.87	192.91	194.15	193.56	194.27	198.42	193.85	193.25	193.03	192.97	192.85	192.76	
6	192.87	192.91	193.82	193.52	194.15	196.94	193.81	193.25	193.03	192.97	192.84	192.76	
7	192.87	192.90	193.71	193.46	195.13	196.02	193.80	193.24	193.03	192.96	192.82	192.76	
8	192.87	192.89	193.41	193.41	194.50	195.75	193.82	193.23	193.02	192.95	192.82	192.76	
9	192.91	192.88	193.35	193.38	194.26	195.47	193.79	193.24	193.02	192.94	192.81	192.75	
10	192.90	192.91	193.26	193.36	194.25	195.34	193.79	193.25	193.02	192.93	192.81	192.75	
11	192.89	193.07	193.21	193.33	194.07	195.33	193.79	193.22	193.02	192.93	192.81	192.75	
12	192.88	193.03	193.49	193.33	193.93	195.31	193.79	193.21	193.02	192.93	192.81	192.76	
13	192.87	193.01	193.62	193.31	193.85	195.19	193.79	193.21	193.19	192.93	192.80	192.75	
14	192.86	193.00	193.71	193.30	193.76	195.49	193.67	193.18	193.22	192.92	192.80	192.75	
15	192.86	192.98	193.77	193.33	193.67	195.94	193.64	193.18	193.12	192.92	192.80	192.75	
16	192.85	192.95	194.73	193.50	193.81	195.72	193.64	193.17	193.07	192.91	192.80	192.74	
17	192.89	193.00	194.40	193.61	193.85	195.34	193.60	193.15	193.05	192.91	192.80	192.73	
18	192.97	193.02	194.46	193.60	193.81	195.07	193.58	193.15	193.03	192.90	192.79	192.73	
19	192.99	192.99	194.23	194.17	193.98	194.82	193.52	193.18	193.03	192.89	192.79	192.73	
20	192.95	192.96	193.96	196.70	194.46	194.64	193.51	193.16	193.02	192.89	192.78	192.73	
21	192.92	192.93	193.92	196.59	194.27	194.62	193.56	193.15	193.01	192.88	192.79	192.72	
22	192.98	192.92	193.90	195.54	194.37	194.51	193.68	193.14	193.01	192.88	192.79	192.72	
23	193.01	192.95	193.72	195.31	194.46	194.44	193.63	193.14	193.01	192.87	192.79	192.71	
24	193.00	193.00	193.75	195.92	196.21	194.39	193.56	193.13	193.01	192.87	192.78	192.71	
25	192.99	193.02	194.02	197.22	196.66	194.60	193.46	193.13	193.01	192.86	192.78	192.71	
26	192.96	193.06	194.22	195.77	195.81	194.43	193.40	193.13	193.01	192.86	192.77	192.71	
27	192.92	193.14	195.74	197.76	195.23	194.34	193.38	193.11	193.01	192.86	192.77	192.70	
28	192.89	193.56	194.99	197.59	194.89	194.32	193.37	193.10	193.00	192.86	192.77	192.70	
29	192.90	193.48	194.53	196.37	194.66	194.35	193.34	193.09	193.00	192.86		192.70	
30	192.90	193.40	194.08	195.62	194.55	194.26	193.33	193.08	192.99	192.86		192.70	
31		193.21		195.08	195.02		193.37		192.99	192.86		192.73	
MEAN	192.91	193.02	193.96	194.60	194.54	195.41	193.67	193.19	193.04	192.91	192.81	192.74	
MAX	193.01	193.56	195.74	197.76	196.66	198.42	194.23	193.35	193.22	192.99	192.85	192.76	198.42
MIN	192.85	192.88	193.18	193.30	193.67	194.26	193.33	193.08	192.99	192.86	192.77	192.70	192.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 198.53 M (MSL), AT 6.00 HOURS, ON SEP 5, 1980
ZERO GAGE AT BOTTOM ELEVATION 192.17 M (MSL), RIVER BED 190.91 M (MSL)
LEFT BANK ELEVATION 200.10 M (MSL)
RIGHT BANK ELEVATION 199.80 M (MSL), DRAINAGE AREA 4609 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	18.2	20.5	46.0	142.5	351.8	600.9	188.2	63.0	35.0	27.2	16.7	10.4	
2	18.2	19.7	52.0	124.5	300.2	845.2	168.1	61.0	34.0	26.5	16.7	10.4	
3	18.2	19.7	138.0	107.8	268.6	833.8	150.0	57.0	33.0	26.5	16.7	10.4	
4	18.2	19.7	219.9	91.7	231.3	1378.5	136.5	55.0	32.0	25.7	16.7	10.4	
5	18.2	21.2	174.7	88.0	195.2	1604.5	127.5	53.0	31.0	25.7	16.7	10.4	
6	18.2	21.2	123.0	83.0	174.7	961.3	121.5	53.0	31.0	25.7	16.0	10.4	
7	18.2	20.5	107.8	75.5	373.8	629.8	120.0	52.0	31.0	25.0	14.5	10.4	
8	18.2	19.7	69.2	69.2	237.0	545.0	123.0	51.0	30.0	24.2	14.5	10.4	
9	21.2	19.0	63.0	66.0	193.5	463.6	118.6	52.0	30.0	23.5	13.7	9.7	
10	20.5	21.2	54.0	64.0	191.7	428.1	118.6	53.0	30.0	22.7	13.7	9.7	
11	19.7	35.0	49.0	61.0	161.5	425.4	118.6	50.0	30.0	22.7	13.7	9.7	
12	19.0	31.0	79.2	61.0	139.5	420.1	118.6	49.0	30.0	22.7	13.7	10.4	
13	18.2	29.0	95.7	59.0	127.5	388.5	118.6	49.0	47.0	22.7	13.0	9.7	
14	17.5	28.0	107.8	58.0	114.6	469.2	102.5	46.0	50.0	22.0	13.0	9.7	
15	17.5	26.5	115.9	61.0	102.5	604.1	98.4	46.0	40.0	22.0	13.0	9.7	
16	16.7	24.2	283.3	80.5	121.5	536.0	98.4	45.0	35.0	21.2	13.0	9.1	
17	19.7	28.0	218.0	94.3	127.5	428.1	93.0	43.0	33.0	21.2	13.0	8.4	
18	25.7	30.0	229.4	93.0	121.5	359.1	90.5	43.0	31.0	20.5	12.3	8.4	
19	27.2	27.2	188.2	178.0	147.0	302.4	83.0	46.0	31.0	19.7	12.3	8.4	
20	24.2	25.0	144.0	868.0	229.4	264.4	81.7	44.0	30.0	19.7	11.7	8.4	
21	22.0	22.7	138.0	826.5	195.2	260.2	88.0	43.0	29.0	19.0	12.3	7.8	
22	26.5	22.0	135.0	483.2	212.7	238.9	103.8	42.0	29.0	19.0	12.3	7.8	
23	29.0	24.2	109.2	420.1	229.4	225.6	97.0	42.0	29.0	18.2	12.3	7.1	
24	28.0	28.0	113.2	597.8	694.4	216.2	88.0	41.0	29.0	18.2	11.7	7.1	
25	27.2	30.0	153.3	1073.0	852.8	256.0	75.5	41.0	29.0	17.5	11.7	7.1	
26	25.0	34.0	186.5	551.0	563.1	223.7	68.0	41.0	29.0	17.5	11.0	7.1	
27	22.0	42.0	542.0	1302.0	398.9	207.5	66.0	39.0	29.0	17.5	11.0	6.5	
28	19.7	88.0	339.8	1225.7	317.8	204.0	65.0	38.0	28.0	17.5	11.0	6.5	
29	20.5	78.0	242.7	749.6	268.6	209.2	62.0	37.0	28.0	17.5		6.5	
30	20.5	68.0	163.2	506.0	246.5	193.5	61.0	36.0	27.2	17.5		6.5	
31		49.0		361.6	346.9		65.0		27.2	17.5		8.4	
TOTAL	633.1	972.2	4681.0	10622.5	8236.6	14722.8	3214.6	1411.0	987.4	664.0	377.9	272.9	46796.0 CMSDAY
MEAN	21.1	31.4	156.0	342.7	265.7	490.8	103.7	47.0	31.9	21.4	13.5	8.8	128.2 CMS
MAX	29.0	88.0	542.0	1302.0	852.8	1604.5	188.2	63.0	50.0	27.2	16.7	10.4	1604.5 CMS
MIN	16.7	19.0	46.0	58.0	102.5	193.5	61.0	36.0	27.2	17.5	11.0	6.5	6.5 CMS
RUNOFF	54.70	84.00	404.44	917.78	711.64	1272.05	277.74	121.91	85.31	57.37	32.65	23.58	4043.17 MCM

MOMENTARY PEAK 1656.75 CMS, AT 198.53 M (MSL), AT 6.00 HOURS, ON SEP 5, 1980

RUNOFF YIELD 27.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 359.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT UTTARADIT, UTTARADIT (N.2B)

LOCATION — LAT. 17°-36'-30" N., LONG. 100°-06'-08" E., ON RIGHT BANK ABOUT 700 METERS DOWNSTREAM FROM N.2A, AMPHOE MUANG, UTTARADIT.

DRAINAGE AREA — 16,865 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +52.30 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — BEHIND THE AUTOMATIC GAGE BUILDING.

ELEVATION — +63.138 M.(M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1970-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1970-1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

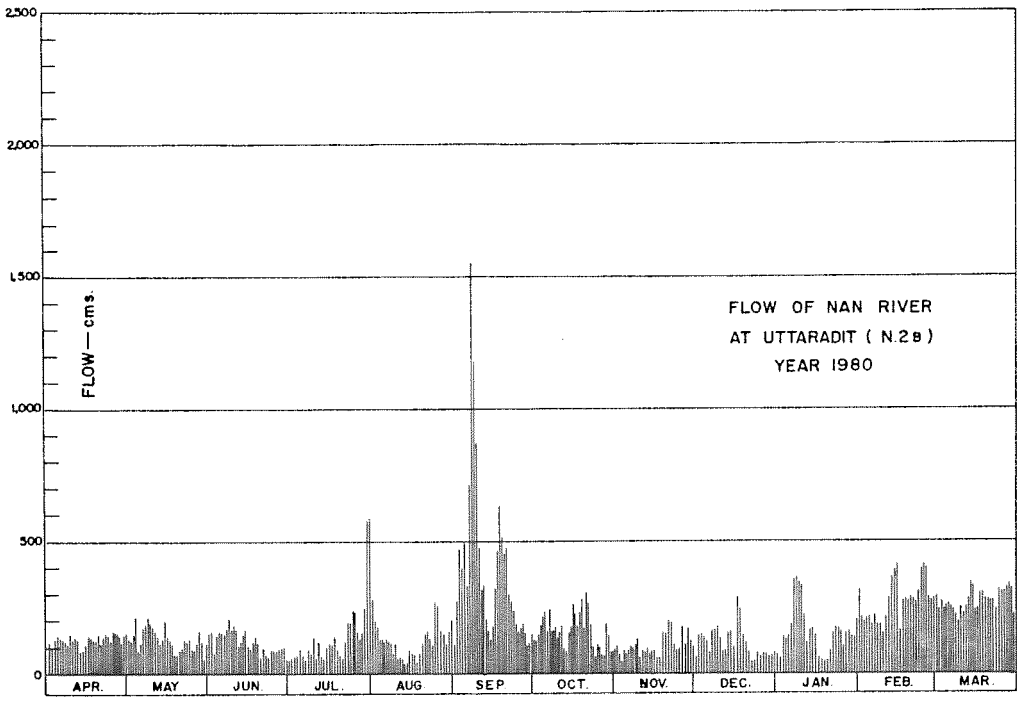
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 202 DISCHARGE MEASUREMENTS MADE DURING 1970-1974.

REMARKS — ESTIMATED GAGE HEIGHT DURING APR.1-2, MAY 12-17, JUN.20-21, 1980 AND JAN.28-30, 1981 BY CORRELATION BETWEEN N.2B AND N.23.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	54.29	54.46	54.66	53.62	55.53	54.19	54.46	54.20	53.70	53.70	55.63	55.52	
2	54.08	54.42	53.61	53.67	55.07	55.67	54.45	53.88	54.55	53.69	55.04	55.25	
3	54.42	54.63	54.49	53.76	54.84	56.39	54.70	53.57	54.60	54.49	54.95	55.43	
4	54.62	55.03	54.64	53.85	54.37	56.06	55.00	53.99	54.51	54.43	55.09	55.28	
5	54.58	53.96	54.68	54.02	54.45	56.45	55.23	53.96	54.42	54.61	55.10	55.39	
6	54.44	54.43	54.58	53.82	54.39	55.77	54.68	54.18	53.95	54.97	54.84	55.36	
7	54.36	54.90	54.72	53.57	54.47	57.76	55.25	54.06	54.72	55.84	55.12	55.30	
8	54.18	54.93	55.06	54.04	54.31	59.37	54.70	54.30	54.77	55.94	54.88	55.16	
9	54.63	55.13	54.74	53.92	53.92	58.36	54.80	54.49	55.44	55.84	54.83	54.94	
10	54.42	54.84	54.84	54.56	54.36	56.67	54.53	53.82	54.71	55.74	54.56	55.33	
11	54.50	54.73	54.62	53.78	53.65	55.65	54.93	54.01	53.98	54.99	55.26	55.16	
12	54.32	54.58	54.18	54.44	53.81	55.72	54.56	53.98	54.06	54.25	55.50	55.37	
13	53.90	54.18	54.30	53.82	53.49	55.28	53.95	54.12	54.56	54.79	55.95	55.47	
14	54.03	54.54	54.78	53.64	53.46	54.83	54.59	53.92	54.70	54.82	56.06	55.81	
15	54.30	55.58	54.44	54.14	53.99	54.33	54.79	53.99	54.07	54.55	55.68	55.73	
16	54.51	54.49	53.99	54.33	53.96	54.94	55.34	54.06	55.10	53.82	54.77	55.25	
17	54.47	54.39	54.32	54.11	53.92	55.80	54.79	53.60	55.49	53.68	55.46	55.58	
18	54.44	54.15	54.52	54.55	53.54	56.98	55.19	54.26	55.00	53.65	55.51	55.60	
19	54.42	53.74	54.34	53.98	53.90	56.66	55.44	54.64	54.50	53.36	55.47	55.53	
20	54.50	54.01	53.68	53.84	54.30	56.30	54.76	54.66	54.30	53.88	55.53	55.43	
21	54.23	54.08	54.12	53.64	54.58	56.36	55.66	54.95	54.06	54.12	55.49	55.49	
22	54.58	54.44	53.90	54.35	54.71	55.59	55.10	54.90	53.57	54.81	55.40	55.46	
23	54.51	54.28	53.71	54.92	54.45	55.34	54.32	54.09	53.52	54.86	55.62	55.18	
24	54.35	54.41	54.11	54.96	54.24	55.03	53.75	53.94	53.89	54.77	56.06	55.60	
25	54.71	54.08	54.07	55.24	55.39	54.75	54.26	54.93	53.86	54.69	56.16	55.65	
26	54.59	54.07	54.10	55.19	55.29	54.82	54.01	54.72	53.87	54.19	56.11	55.64	
27	54.63	54.47	54.16	54.50	54.68	54.92	53.83	54.39	53.89	54.65	55.54	55.70	
28	54.28	54.72	54.20	54.45	54.60	54.47	54.88	54.75	53.88	54.66	55.48	55.77	
29	54.56	54.24	54.21	55.28	54.30	54.21	54.50	54.40	53.86	54.53		55.66	
30	54.57	53.70	53.62	56.74	54.48	54.62	53.98	54.22	53.93	54.52		55.19	
31		54.44		56.84	55.03		54.06		53.91	55.31		55.05	
MEAN	54.41	54.45	54.31	54.37	54.37	55.78	54.66	54.23	54.30	54.59	55.40	55.43	
MAX	54.71	55.58	55.06	56.84	55.53	59.37	55.66	54.95	55.49	55.94	56.16	55.81	59.37
MIN	53.90	53.70	53.61	53.57	53.46	54.19	53.75	53.57	53.52	53.36	54.56	54.94	53.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 59.46 M (MSL), AT 3.00 HOURS, ON SEP 8, 1980
ZERO GAGE AT BOTTOM ELEVATION 52.30 M (MSL), RIVER BED 51.91 M (MSL)
LEFT BANK ELEVATION 60.87 M (MSL)
RIGHT BANK ELEVATION 62.24 M (MSL), DRAINAGE AREA 16865 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	111.0	129.2	153.2	49.6	287.4	101.0	129.2	102.0	56.0	56.0	305.4	285.6	
2	90.0	124.4	48.8	53.6	209.2	312.6	128.0	70.4	140.0	55.2	204.4	238.0	
3	124.4	149.6	132.8	60.8	175.6	469.6	158.0	46.2	146.0	132.8	191.0	269.4	
4	148.4	202.8	150.8	68.0	119.0	391.2	198.0	81.0	135.2	125.6	212.4	242.8	
5	143.6	78.0	155.6	84.0	128.0	484.0	234.8	78.0	124.4	147.2	214.0	262.2	
6	126.8	125.6	143.6	65.6	121.0	332.0	155.6	100.0	77.0	193.8	175.6	256.8	
7	118.0	184.0	160.4	46.2	130.4	898.0	238.0	88.0	160.4	346.0	217.2	246.0	
8	100.0	188.2	207.6	86.0	113.0	1542.0	158.0	112.0	166.4	366.0	181.2	223.6	
9	149.6	218.8	162.8	74.0	74.0	1138.0	170.0	132.8	271.2	346.0	174.2	189.6	
10	124.4	175.6	175.6	141.2	118.0	541.9	137.6	65.6	159.2	326.0	141.2	251.4	
11	134.0	161.6	148.4	62.4	52.0	309.0	188.2	83.0	80.0	196.6	239.6	223.6	
12	114.0	143.6	100.0	126.8	64.8	322.0	141.2	80.0	88.0	107.0	282.0	258.6	
13	72.0	100.0	112.0	65.6	41.4	242.8	77.0	94.0	141.2	168.8	368.0	276.6	
14	85.0	138.8	167.6	51.2	39.6	174.2	144.8	74.0	158.0	172.8	391.2	340.0	
15	112.0	296.4	126.8	96.0	81.0	115.0	168.8	81.0	89.0	140.0	314.4	324.0	
16	135.2	132.8	81.0	115.0	78.0	189.6	253.2	88.0	214.0	65.6	166.4	238.0	
17	130.4	121.0	114.0	93.0	74.0	338.0	168.8	48.0	280.2	54.4	274.8	296.4	
18	126.8	97.0	136.4	140.0	44.4	628.0	228.4	108.0	198.0	52.0	283.8	300.0	
19	124.4	59.2	116.0	80.0	72.0	539.2	271.2	150.8	134.0	33.6	276.6	287.4	
20	134.0	83.0	54.4	67.2	112.0	448.0	165.2	153.2	112.0	70.4	287.4	269.4	
21	105.0	90.0	94.0	51.2	143.6	462.4	310.8	191.0	88.0	94.0	280.2	280.2	
22	143.6	126.8	72.0	117.0	159.2	298.2	214.0	184.0	46.2	171.4	264.0	274.8	
23	135.2	110.0	56.8	186.8	128.0	253.2	114.0	91.0	43.2	178.4	303.6	226.8	
24	117.0	123.2	93.0	192.4	106.0	202.8	60.0	76.0	71.2	166.4	391.2	300.0	
25	159.2	90.0	89.0	236.4	262.2	164.0	108.0	188.2	68.8	156.8	414.4	309.0	
26	144.8	89.0	92.0	228.4	244.4	172.8	83.0	160.4	69.6	101.0	402.4	307.2	
27	149.6	130.4	98.0	134.0	155.6	186.8	66.4	121.0	71.2	152.0	289.2	318.0	
28	110.0	160.4	102.0	128.0	146.0	130.4	181.2	164.0	70.4	153.2	278.4	332.0	
29	141.2	106.0	103.0	242.8	112.0	103.0	134.0	122.0	68.8	137.6		310.8	
30	142.4	56.0	49.6	560.8	131.6	148.4	80.0	104.0	75.0	136.4		228.4	
31		126.8		587.8	202.8		88.0		73.0	247.8		206.0	
TOTAL	3752.0	4118.2	3497.2	4291.8	3926.2	11638.1	4953.4	3237.6	3675.6	4850.8	7524.2	8372.6	63837.6 CMSDAY
MEAN	125.1	132.8	116.6	138.4	126.7	387.9	159.8	107.9	118.6	156.5	268.7	270.1	174.9 CMS
MAX	159.2	296.4	207.6	587.8	287.4	1542.0	310.8	191.0	280.2	366.0	414.4	340.0	1542.0 CMS
MIN	72.0	56.0	48.8	46.2	39.6	101.0	60.0	46.2	43.2	33.6	141.2	189.6	33.6 CMS
RUNOFF	324.17	355.81	302.16	370.81	339.22	1005.53	427.97	279.73	317.57	419.11	650.09	723.39	5515.57 MCM

MOMENTARY PEAK 1578.00 CMS, AT 59.46 M (MSL), AT 3.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 10.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 93.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT PHICHAI, UTTARADIT (N.4A)

LOCATION — LAT. 17°-16'-58" N., LONG. 101°-04'-53" E., ON LEFT BANK ABOUT 2.5 KILOMETERS DOWNSTREAM FROM AMPHOE PHICHAI OFFICE, BAN WANG PHANIAT, AMPHOE PHICHAI, UTTARADIT.

DRAINAGE AREA — 19,383 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +44.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +53.065 M.(M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +52.74 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.

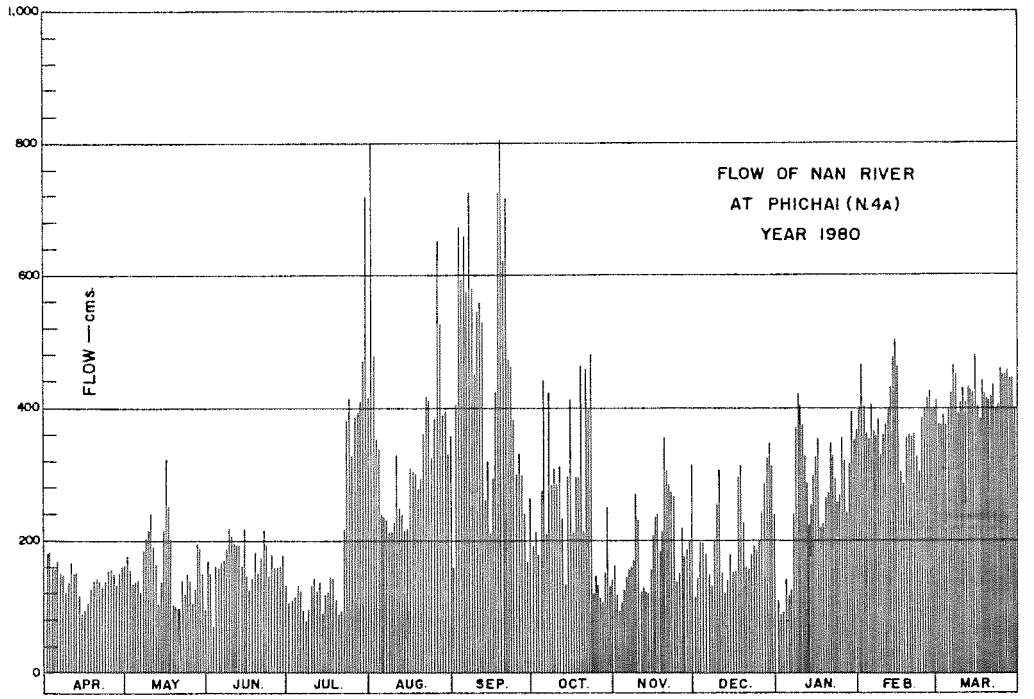
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1974.

REMARKS — ESTIMATED GAGE HEIGHT DURING SEPT.1-30, 1980 BY CORRELATION BETWEEN N.4A AND N.26. RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	46.48	46.48	46.40	45.87	49.69	46.33	46.55	46.38	45.98	45.93	48.11	47.86	
2	46.51	46.29	46.17	45.92	48.26	47.79	46.73	45.96	46.22	45.72	47.86	47.64	
3	46.33	46.14	45.57	45.96	47.53	49.11	46.47	45.77	46.61	45.78	47.62	47.72	
4	46.32	46.18	46.36	46.00	47.45	48.75	47.14	46.02	46.59	46.21	47.53	47.65	
5	46.40	46.21	46.33	46.12	46.89	49.04	47.99	46.15	46.50	45.98	47.81	47.78	
6	46.27	46.04	46.42	46.04	46.86	48.64	46.68	46.32	46.32	46.06	47.61	47.91	
7	46.24	46.48	46.41	45.75	46.81	49.35	47.90	46.36	46.13	46.89	47.56	48.11	
8	46.02	46.63	46.57	45.63	46.71	52.83	47.13	46.44	46.59	47.72	47.69	48.04	
9	46.11	46.73	46.72	45.85	46.71	52.24	47.29	47.10	46.98	47.88	47.40	47.74	
10	46.39	46.91	46.63	46.12	46.82	50.30	47.15	46.48	47.28	47.76	47.62	47.94	
11	46.27	46.55	46.57	46.22	47.41	48.58	47.31	46.03	46.48	47.55	47.69	47.83	
12	46.28	46.33	46.56	46.04	46.91	48.44	46.80	46.11	46.02	47.12	47.81	47.85	
13	45.99	45.86	46.49	46.19	46.88	46.99	46.15	46.01	46.18	46.80	48.13	47.95	
14	45.73	46.20	46.35	45.75	46.70	47.35	47.20	46.20	46.48	47.20	48.30	47.92	
15	45.77	46.89	46.74	46.00	46.76	46.68	48.36	46.59	46.30	47.41	48.11	48.18	
16	45.84	47.37	46.14	46.05	47.30	47.34	46.70	46.87	46.31	47.55	47.31	47.87	
17	46.01	46.83	46.03	46.23	47.26	47.96	47.22	46.88	47.11	46.74	47.15	47.70	
18	46.17	46.38	46.29	46.21	47.25	49.41	47.21	46.50	47.33	46.80	47.55	48.00	
19	46.19	45.86	46.50	45.80	47.10	49.72	48.11	46.80	46.84	47.03	47.57	47.92	
20	46.22	45.85	46.27	45.72	47.25	48.87	46.71	47.54	46.41	47.08	47.59	47.85	
21	46.13	45.81	46.59	45.79	47.61	49.32	48.08	47.21	46.31	47.51	47.60	47.88	
22	46.10	46.18	46.74	46.82	47.88	48.15	47.78	47.12	46.47	47.39	47.42	47.98	
23	46.22	45.99	46.54	47.66	47.84	48.09	48.19	47.06	46.59	46.98	47.26	47.76	
24	46.30	46.26	46.25	47.85	47.37	47.51	46.00	46.16	46.53	47.05	47.70	47.83	
25	46.32	46.17	46.48	47.39	47.67	47.22	46.26	46.26	46.70	47.55	47.81	48.07	
26	46.27	45.86	46.34	47.69	49.02	47.41	46.02	46.75	46.94	47.36	47.89	48.03	
27	46.11	46.15	46.35	47.73	48.41	47.20	45.90	46.43	47.18	46.90	47.94	48.07	
28	46.27	46.57	46.37	47.82	47.72	46.87	46.26	46.51	47.39	47.48	47.76	48.02	
29	46.35	46.53	46.48	48.12	47.75	46.40	46.95	46.60	47.50	47.76		48.01	
30	46.37	46.02	46.22	49.32	47.41	47.04	46.13	47.39	47.29	47.53		47.78	
31		45.77		50.47	47.56		46.21		46.59	47.68		47.58	
MEAN	46.20	46.31	46.40	46.65	47.44	48.36	46.99	46.53	46.65	47.05	47.69	47.89	
MAX	46.51	47.37	46.74	50.47	49.69	52.83	48.36	47.54	47.50	47.88	48.30	48.18	52.83
MIN	45.73	45.77	45.57	45.63	46.70	46.33	45.90	45.77	45.98	45.72	47.15	47.58	45.57

ANNUAL MAX MOMENTARY GAGE HEIGHT M (MSL), AT HOURS, ON , 1980
ZERO GAGE AT BOTTOM ELEVATION 44.00 M (MSL), RIVER BED 44.09 M (MSL)
LEFT BANK ELEVATION 52.74 M (MSL)
RIGHT BANK ELEVATION 54.10 M (MSL), DRAINAGE AREA 19383 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	177.0	177.0	165.0	100.7	798.8	155.2	187.5	162.2	112.8	107.3	463.0	413.4	
2	181.5	149.8	135.4	106.2	493.0	400.1	214.5	110.6	141.4	84.2	413.4	371.6	
3	155.2	131.8	69.3	110.6	350.7	671.2	175.5	89.7	196.5	90.8	367.8	386.8	
4	153.8	136.6	159.4	115.0	336.0	594.5	281.8	117.4	193.5	140.2	350.7	373.5	
5	165.0	140.2	155.2	129.4	239.4	655.8	439.0	133.0	180.0	112.8	403.9	398.2	
6	147.4	119.8	168.0	119.8	234.6	571.4	207.0	153.8	153.8	122.2	365.9	423.0	
7	143.8	177.0	166.5	87.5	226.6	724.0	421.0	159.4	130.6	239.4	356.4	463.0	
8	117.4	199.5	190.5	75.0	211.5	629.3	280.1	171.0	193.5	386.8	381.1	449.0	
9	128.2	214.5	213.0	98.5	211.5	445.7	307.3	275.0	254.6	417.2	327.0	390.6	
10	163.6	242.7	199.5	129.4	228.2	543.3	283.5	177.0	305.6	394.4	367.8	429.0	
11	147.4	187.5	190.5	141.4	328.8	558.8	310.8	118.6	177.0	354.5	381.1	407.7	
12	148.6	155.2	189.0	119.8	242.7	529.4	225.0	128.2	117.4	278.4	403.9	411.5	
13	113.9	99.6	178.5	137.8	237.8	256.3	133.0	116.2	136.6	225.0	467.0	431.0	
14	85.3	139.0	158.0	87.5	210.0	318.0	292.0	139.0	177.0	292.0	501.0	425.0	
15	89.7	239.4	216.0	115.0	219.0	207.0	513.0	193.5	151.0	328.8	463.0	477.0	
16	97.4	321.6	131.8	121.0	309.0	316.2	210.0	236.2	152.4	354.5	310.8	415.3	
17	116.2	229.8	118.6	142.6	302.2	433.0	295.4	237.8	276.7	216.0	283.5	383.0	
18	135.4	162.2	149.8	140.2	300.5	737.2	293.7	180.0	314.4	225.0	354.5	441.0	
19	137.8	99.6	180.0	93.0	275.0	805.6	463.0	225.0	231.4	263.1	358.3	425.0	
20	141.4	98.5	147.4	84.2	300.5	619.7	211.5	352.6	166.5	271.6	362.1	411.5	
21	130.6	94.1	193.5	91.9	365.9	717.4	457.0	293.7	152.4	346.9	364.0	417.2	
22	127.0	136.6	216.0	228.2	417.2	471.0	398.2	278.4	175.5	325.2	330.6	437.0	
23	141.4	113.9	186.0	375.4	409.6	459.0	479.0	268.2	193.5	254.6	302.2	394.4	
24	151.0	146.2	145.0	411.5	321.6	346.9	115.0	134.2	184.5	266.5	383.0	407.7	
25	153.8	135.4	177.0	325.2	377.3	295.4	146.2	146.2	210.0	354.5	403.9	455.0	
26	147.4	99.6	156.6	381.1	651.4	328.8	117.4	217.5	247.8	319.8	419.1	447.0	
27	128.2	133.0	158.0	388.7	523.1	292.0	104.0	169.5	288.6	241.0	429.0	455.0	
28	147.4	190.5	160.8	405.8	386.8	236.2	146.2	181.5	325.2	341.4	394.4	445.0	
29	158.0	184.5	177.0	465.0	392.5	165.0	249.5	195.0	345.0	394.4		443.0	
30	160.8	117.4	141.4	717.4	328.8	264.8	130.6	325.2	307.3	350.7		398.2	
31		89.7		414.2	356.4		140.2		193.5	379.2		360.2	
TOTAL	4191.6	4862.2	4992.7	6459.0	10586.4	13748.2	8227.9	5685.6	6386.0	8478.4	10708.4	12985.8	97312.1 CMSD.
MEAN	139.7	156.8	166.4	208.4	341.5	458.3	265.4	189.5	206.0	273.5	382.4	418.9	266.6 CMS
MAX	181.5	321.6	216.0	717.4	798.8	805.6	513.0	352.6	345.0	417.2	501.0	477.0	805.6 CMS
MIN	85.3	89.7	69.3	75.0	210.0	155.2	104.0	89.7	112.8	84.2	283.5	360.2	69.3 CMS
RUNOFF	362.15	420.09	431.37	558.06	914.66	1187.84	710.89	491.24	551.75	732.53	925.20	1121.97	8407.76 MCM

MOMENTARY PEAK CMS, AT M (MSL), AT HOURS, ON , 1980

RUNOFF YIELD 13.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT PHITSANULOK, PHITSANULOK (N.5A)

LOCATION — LAT. 16°-49'-15" N., LONG. 100°-15'-49" E., ON LEFT BANK NEAR POST OFFICE AND ABOUT 1 KILOMETER UPSTREAM FROM GAGING STATION N.5, AMPHOE MUANG, PHITSANULOK.

DRAINAGE AREA — 25,286 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +34.50 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +45.856 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1963 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

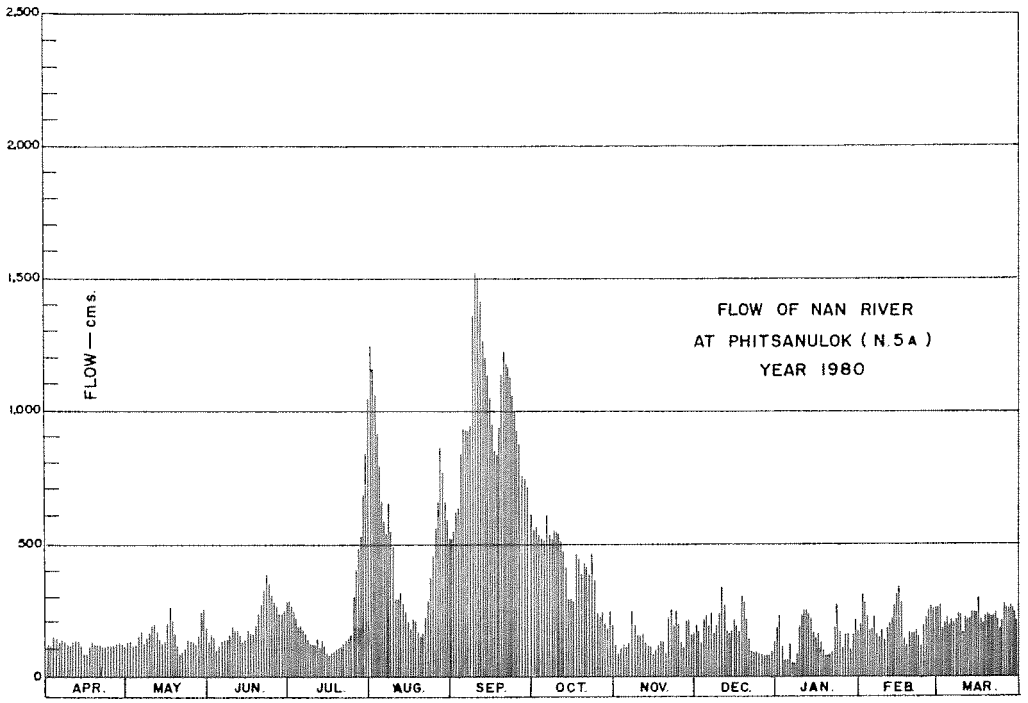
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	36.04	36.18	36.12	37.71	43.62	39.56	39.78	35.71	36.90	37.24	37.02	37.09	
2	35.88	36.22	36.42	37.57	42.96	40.27	39.87	35.49	36.62	36.61	37.95	37.20	
3	36.24	36.01	36.33	37.43	41.91	40.38	39.71	35.78	36.14	35.26	37.22	36.80	
4	36.27	35.89	35.62	37.04	41.35	41.54	39.57	36.08	37.12	35.11	36.74	37.13	
5	36.13	36.32	36.07	36.85	40.74	42.02	39.55	35.87	37.22	36.20	36.68	36.99	
6	36.25	36.58	36.24	36.86	40.10	42.02	40.19	35.98	36.85	35.28	37.15	37.11	
7	36.17	36.00	36.31	36.61	39.72	42.02	39.64	37.38	37.35	34.73	36.55	36.94	
8	36.05	36.29	36.30	36.34	39.25	43.91	39.58	36.96	36.51	35.68	36.39	37.26	
9	35.91	36.59	36.48	36.02	38.31	44.94	39.83	36.47	36.97	37.04	36.68	37.32	
10	35.86	36.75	36.73	36.07	37.72	44.92	39.75	36.46	37.33	37.37	36.23	36.64	
11	36.28	36.93	36.63	36.05	37.66	44.52	39.59	36.62	38.22	37.44	36.80	37.26	
12	36.21	36.69	36.59	36.27	37.96	43.75	39.38	36.26	37.58	37.25	36.90	37.10	
13	36.13	36.35	36.33	35.93	37.58	43.36	38.88	36.09	36.60	36.64	37.15	37.20	
14	35.88	35.81	36.09	36.14	37.31	43.01	37.73	36.02	36.58	36.24	37.90	37.39	
15	35.45	36.19	36.31	35.76	37.02	42.47	37.83	35.51	36.95	36.27	38.12	37.40	
16	35.45	36.86	36.67	35.47	36.60	41.88	37.65	35.56	37.15	36.55	37.72	37.81	
17	35.90	37.54	36.52	35.57	37.07	41.47	39.19	35.94	36.62	36.09	36.17	37.15	
18	36.24	37.09	36.50	35.73	37.01	42.06	39.02	36.21	37.73	35.63	36.08	36.93	
19	36.12	36.49	37.09	35.80	36.55	43.19	38.56	36.28	37.90	35.57	36.67	37.38	
20	36.00	35.86	37.40	35.92	36.44	43.54	38.93	35.66	37.49	35.55	36.61	37.34	
21	35.97	35.44	37.79	35.94	36.54	43.30	38.80	37.20	36.12	35.64	36.64	37.25	
22	35.96	35.58	38.43	36.11	37.37	43.26	38.56	37.52	35.69	36.71	36.66	37.28	
23	35.85	35.85	38.55	36.38	38.16	42.91	39.12	36.89	35.64	37.65	36.45	37.40	
24	36.01	36.18	38.18	36.41	38.54	42.37	38.51	37.42	35.60	36.74	35.97	36.89	
25	35.97	36.16	37.73	37.35	39.41	41.95	37.56	36.37	35.57	35.84	37.12	37.23	
26	35.89	36.23	37.66	38.21	40.54	41.59	37.10	35.93	35.55	36.50	37.47	37.66	
27	36.11	35.96	37.39	39.19	41.61	41.12	37.34	36.99	35.51	36.49	37.62	37.53	
28	36.15	36.61	37.26	39.74	41.14	40.97	36.88	37.09	35.49	35.72	37.54	37.65	
29	36.07	37.32	37.37	40.81	40.41	40.81	36.66	36.49	35.48	36.28		37.55	
30	35.91	37.47	37.72	41.66	40.14	40.39	37.33	36.54	35.93	37.17		37.47	
31		36.83		43.10	39.60		36.59		36.53	36.61		36.94	
MEAN	36.01	36.40	36.89	37.16	39.04	42.32	38.67	36.36	36.61	36.29	36.94	37.24	
MAX	36.28	37.54	38.55	43.10	43.62	44.94	40.19	37.52	38.22	37.65	38.12	37.81	44.94
MIN	35.45	35.44	35.62	35.47	36.44	39.56	36.59	35.49	35.48	34.73	35.97	36.64	34.73

ANNUAL MAX MOMENTARY GAGE HEIGHT 45.00 M (MSL), AT 21.00 HOURS, ON SEP 9, 1980
ZERO GAGE AT BOTTOM ELEVATION 34.50 M (MSL), RIVER BED 32.50 M (MSL)
LEFT BANK ELEVATION 45.86 M (MSL)
RIGHT BANK ELEVATION 45.85 M (MSL), DRAINAGE AREA 25286 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	112.8	122.6	118.4	275.7	1241.1	510.2	542.1	90.2	188.0	223.2	200.1	207.4	
2	101.6	125.6	141.9	259.6	1108.0	618.2	555.5	75.9	160.9	159.9	303.3	219.0	
3	127.2	110.7	134.4	243.4	902.9	635.8	532.0	94.7	119.8	63.0	221.1	178.0	
4	129.6	102.3	84.3	202.2	799.3	833.9	511.7	115.6	210.6	55.5	172.3	211.6	
5	119.1	133.6	114.9	183.0	695.1	923.9	508.8	100.9	221.1	124.0	166.6	197.0	
6	128.0	157.1	127.2	184.0	591.0	923.9	605.4	108.6	183.0	64.0	213.7	209.5	
7	121.9	110.0	132.8	159.9	533.4	923.9	521.8	237.9	234.8	36.5	154.3	192.0	
8	113.5	131.2	132.0	135.2	466.0	1300.5	513.1	194.0	150.5	88.2	139.2	225.3	
9	103.7	158.1	147.6	111.4	344.7	1517.1	549.5	146.6	195.0	202.2	166.6	231.6	
10	100.2	173.3	171.4	114.9	276.8	1512.8	537.8	145.7	232.6	236.9	126.4	162.8	
11	130.4	191.0	161.9	113.5	269.9	1428.2	514.6	160.9	334.3	244.6	178.0	225.3	
12	124.8	167.5	158.1	129.6	304.4	1267.8	484.2	128.8	260.7	224.3	188.0	208.5	
13	119.1	136.0	134.4	105.1	260.7	1188.0	415.8	116.3	159.0	162.8	213.7	219.0	
14	101.6	96.7	116.3	119.8	230.6	1118.0	278.0	111.4	157.1	127.2	297.5	239.0	
15	73.3	123.3	132.8	93.4	200.1	1011.6	289.5	77.1	193.0	129.6	322.8	240.0	
16	73.3	184.0	165.7	74.5	159.0	897.2	268.7	80.4	213.7	154.3	276.8	287.2	
17	103.0	256.1	151.4	81.1	205.4	820.9	457.6	105.8	160.9	116.3	121.9	213.7	
18	127.2	207.4	149.5	91.5	199.0	931.7	434.7	124.8	278.0	85.0	115.6	191.0	
19	118.4	148.6	207.4	96.0	154.3	1154.0	375.0	130.4	297.5	81.1	165.7	237.9	
20	110.0	100.2	240.0	104.4	143.8	1224.7	422.5	86.9	250.4	79.8	159.9	233.7	
21	107.9	72.6	284.8	105.8	153.3	1176.0	405.0	219.0	118.4	85.6	162.8	224.3	
22	107.2	81.7	358.7	117.7	236.9	1168.0	375.0	253.8	88.8	169.5	164.7	227.4	
23	99.5	99.5	373.8	138.4	327.4	1098.0	448.2	187.0	85.6	268.7	144.8	240.0	
24	110.7	122.6	329.7	141.0	372.5	992.1	368.7	242.3	83.0	172.3	107.9	187.0	
25	107.9	121.2	278.0	234.8	488.5	910.5	258.4	137.6	81.1	98.8	210.6	222.1	
26	102.3	126.4	269.9	333.2	662.1	843.2	208.5	105.1	79.8	149.5	248.0	269.9	
27	117.7	107.2	239.0	457.6	846.8	759.0	233.7	197.0	77.1	148.6	265.3	255.0	
28	120.5	159.9	225.3	536.3	762.5	733.0	186.0	207.4	75.9	90.8	256.1	268.7	
29	114.9	231.6	236.9	706.6	640.7	706.6	164.7	148.6	75.2	130.4		257.3	
30	103.7	248.0	276.8	856.1	597.4	637.4	232.6	153.3	105.1	215.9		248.0	
31		181.0		1136.0	516.0		158.1		152.4	159.9		192.0	
TOTAL	3331.0	4487.0	5795.3	7641.7	14689.6	29766.1	12357.2	4284.0	5223.3	4348.4	5463.7	6921.2	104308.4 CMSDAY
MEAN	111.0	144.7	193.2	246.5	473.9	992.2	398.6	142.8	168.5	140.3	195.1	223.3	285.8 CMS
MAX	130.4	256.1	373.8	1136.0	1241.1	1517.1	605.4	253.8	334.3	268.7	322.8	287.2	1517.1 CMS
MIN	73.3	72.6	84.3	74.5	143.8	510.2	158.1	75.9	75.2	36.5	107.9	162.8	36.5 CMS
RUNOFF	287.80	387.68	500.71	660.24	1269.18	2571.79	1067.66	370.14	451.29	375.70	472.06	597.99	9012.24 MCM

MOMENTARY PEAK 1530.00 CMS, AT 45.00 M (MSL), AT 21.00 HOURS, ON SEP 9, 1980

RUNOFF YIELD 11.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 60.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT PHICHIT, PHICHIT (N.7)

LOCATION — LAT. 16°-26'-31" N., LONG. 100°-21'-11" E., ON RIGHT BANK INFRONT OF PHICHIT PHITHAYA KHAM SCHOOL, AMPHOE MUANG, PHICHIT.

DRAINAGE AREA — 29,153 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +26.00 M. (M.S.L.)

BENCH MARK — B.M.-R.I.D. NO.4

LOCATION — INFRONT OF PHICHIT PHITHAYA KHAM SCHOOL.

ELEVATION — +37.228 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1934 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1967, 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1967, 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

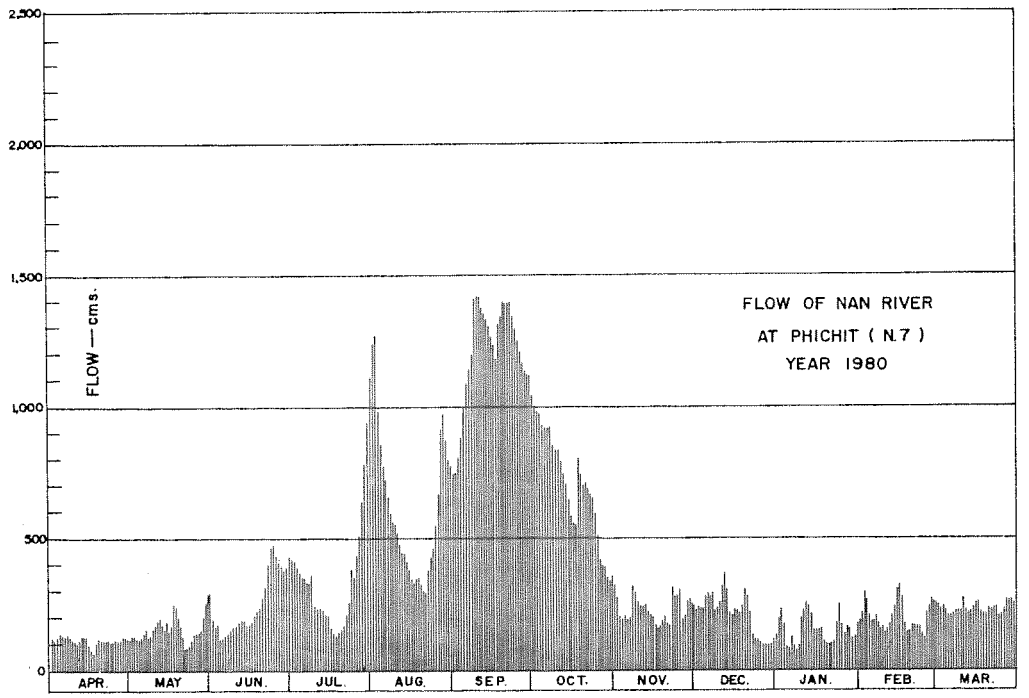
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	28.08	27.90	29.21	31.11	36.01	33.24	35.85	29.91	29.38	28.86	28.85	29.66	
2	28.02	28.12	28.58	31.07	36.07	33.55	35.71	29.34	29.38	29.36	29.12	29.29	
3	27.81	28.13	28.72	30.93	35.68	33.77	35.70	29.04	29.48	28.68	29.91	29.39	
4	28.09	27.98	28.51	30.84	35.26	34.25	35.59	29.02	29.28	27.69	29.37	29.46	
5	28.31	27.93	27.97	30.61	34.89	35.11	35.45	29.12	29.91	27.33	28.88	29.19	
6	28.06	28.25	28.22	30.48	34.43	35.42	35.47	28.94	29.93	28.13	28.86	29.14	
7	28.20	28.48	28.40	30.35	34.02	35.51	35.49	29.01	29.83	27.65	29.11	29.14	
8	28.15	28.08	28.50	30.24	33.48	35.87	35.19	30.21	29.92	27.26	28.77	29.19	
9	28.01	28.31	28.56	30.69	32.93	36.80	35.13	29.81	29.32	27.76	28.57	29.36	
10	27.86	28.59	28.73	29.58	32.02	36.86	35.14	29.52	29.63	29.18	28.70	29.35	
11	27.79	28.85	28.86	29.41	31.52	36.86	35.02	29.46	30.10	29.56	28.35	29.85	
12	28.17	29.01	28.92	29.45	31.33	36.80	34.78	29.53	30.61	29.61	28.82	29.41	
13	28.25	28.81	28.97	29.43	31.30	36.72	34.58	29.24	29.90	29.40	29.06	29.24	
14	28.16	28.44	28.78	29.14	31.02	36.68	34.06	29.08	29.11	28.76	29.38	29.38	
15	27.80	28.83	28.67	29.15	30.70	36.54	33.53	28.98	29.05	28.42	30.09	29.49	
16	27.50	28.35	28.83	28.77	30.34	36.44	32.97	28.60	29.37	28.44	30.29	29.64	
17	27.13	29.01	29.17	28.26	30.08	36.35	32.93	28.49	29.30	28.61	29.76	29.81	
18	27.78	29.53	29.26	28.17	30.48	36.38	33.65	28.81	29.17	28.17	28.59	29.23	
19	28.05	29.20	29.41	28.36	30.47	36.63	33.18	29.01	30.07	27.80	28.31	29.17	
20	28.06	28.61	29.76	28.36	30.14	36.75	33.00	29.05	30.13	27.70	28.73	29.48	
21	27.97	28.08	30.16	28.58	29.98	36.73	33.12	28.67	29.78	27.70	28.69	29.44	
22	27.97	27.63	30.72	29.08	30.45	36.76	32.86	29.91	28.70	27.83	28.72	29.40	
23	27.95	27.67	31.31	29.56	31.10	36.74	32.76	30.12	28.07	28.79	28.71	29.44	
24	27.81	28.00	31.51	30.78	31.41	36.65	32.59	29.81	27.98	29.60	28.46	29.41	
25	27.95	28.25	31.30	30.42	31.99	36.54	31.97	30.07	27.92	28.93	28.06	29.06	
26	27.92	28.33	31.06	31.16	32.86	36.41	31.23	29.33	27.79	28.12	29.21	29.43	
27	27.85	28.42	30.97	31.88	34.23	36.30	30.90	28.96	27.79	28.58	29.58	29.72	
28	28.04	28.43	30.79	32.89	34.58	36.20	30.85	29.71	27.78	28.55	29.74	29.69	
29	28.10	29.26	30.77	33.70	34.20	36.15	30.44	29.80	27.74	27.95		29.74	
30	28.04	29.88	30.90	34.50	33.64	36.12	30.34	29.57	27.74	28.17		29.66	
31		29.90		35.32	33.43		30.52		28.14	28.77		29.52	
MEAN	27.96	28.52	29.52	30.40	32.58	36.04	33.55	29.34	29.11	28.43	29.02	29.43	
MAX	28.31	29.90	31.51	35.32	36.07	36.86	35.85	30.21	30.61	29.61	30.29	29.85	36.86
MIN	27.13	27.63	27.97	28.17	29.98	33.24	30.34	28.49	27.74	27.26	28.06	29.06	27.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 36.87 M (MSL), AT 13.00 HOURS, ON SEP 10, 1980
ZERO GAGE AT BOTTOM ELEVATION 26.00 M (MSL), RIVER BED 24.40 M (MSL)
LEFT BANK ELEVATION 37.06 M (MSL)
RIGHT BANK ELEVATION 37.33 M (MSL), DRAINAGE AREA 29153 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	121.0	107.5	214.0	421.7	1247.0	737.0	1020.0	282.5	230.1	182.4	181.5	257.0	
2	116.5	124.0	159.4	416.7	1259.0	791.2	980.3	226.3	230.1	228.2	205.8	221.5	
3	100.7	124.7	170.6	399.6	972.0	829.8	977.5	198.6	239.6	167.4	282.5	231.1	
4	121.7	113.5	153.8	388.8	865.0	913.8	947.5	196.8	220.6	92.8	229.2	237.7	
5	138.2	109.7	112.7	361.2	785.6	1070.9	912.5	205.8	282.5	71.2	184.2	212.1	
6	119.5	133.8	131.5	346.2	703.6	1130.9	917.5	189.6	284.6	124.7	182.4	207.6	
7	130.0	151.4	145.0	331.3	644.7	1148.4	922.5	195.9	274.1	90.2	204.9	207.6	
8	126.2	121.0	153.0	318.6	591.0	1219.0	847.8	315.2	283.6	67.3	174.6	212.1	
9	115.7	138.2	157.8	370.8	556.5	1405.0	834.9	272.0	224.4	97.4	158.6	228.2	
10	104.5	160.2	171.4	249.1	544.0	1417.0	837.1	243.4	254.0	211.2	169.0	227.3	
11	99.3	181.5	182.4	233.0	474.2	1417.0	811.3	237.7	303.0	247.2	141.3	276.2	
12	127.7	195.9	187.8	236.7	449.2	1365.0	764.2	244.4	361.2	252.0	178.8	233.0	
13	133.8	177.9	192.3	234.8	445.5	1333.0	726.9	216.8	281.5	232.0	200.4	216.8	
14	127.0	148.2	175.4	207.6	410.5	1317.0	650.1	202.2	204.9	173.8	230.1	230.1	
15	100.0	179.7	166.6	208.5	372.0	1262.5	594.7	193.2	199.5	146.6	301.9	240.5	
16	81.0	141.3	179.7	174.6	330.1	1225.0	558.5	161.0	229.2	148.2	324.3	255.0	
17	60.5	195.9	210.3	134.5	300.8	1191.3	556.5	152.2	222.5	161.8	267.0	272.0	
18	98.7	244.4	218.7	127.7	346.2	1321.0	808.7	177.9	210.3	127.7	160.2	215.9	
19	118.8	213.0	233.0	142.0	345.0	1371.0	726.6	195.9	299.7	100.0	138.2	210.3	
20	119.5	161.8	267.0	142.0	307.4	1395.0	696.0	199.5	306.3	93.5	171.4	239.6	
21	112.7	121.0	309.6	159.4	289.9	1391.0	716.4	166.6	269.0	93.5	168.2	235.8	
22	112.7	88.9	374.4	202.2	342.7	1397.0	673.6	282.5	169.0	102.2	170.6	232.0	
23	111.2	91.5	446.7	247.2	420.5	1341.0	657.8	305.2	120.3	176.2	169.8	235.8	
24	100.7	115.0	472.8	381.6	459.4	1305.0	631.4	272.0	113.5	251.0	149.8	233.0	
25	111.2	133.8	445.5	339.3	539.6	1262.5	536.8	299.7	109.0	188.7	119.5	200.4	
26	109.0	139.7	415.5	428.0	673.6	1213.7	436.8	225.4	99.3	124.0	214.0	234.8	
27	103.7	146.6	404.4	524.2	910.3	1172.5	396.0	191.4	99.3	159.4	249.1	263.0	
28	118.0	147.4	382.8	678.4	972.4	1135.0	390.0	262.0	98.7	157.0	265.0	260.0	
29	122.5	218.7	380.4	817.5	905.0	1117.5	341.6	271.0	96.1	111.2		265.0	
30	118.0	279.4	396.0	958.0	807.0	1107.0	330.1	248.2	96.1	127.7		257.0	
31		281.5		1111.4	770.2		350.8		125.5	174.6		243.4	
TOTAL	3380.0	4887.1	7610.5	11292.6	19039.9	36303.0	21552.4	6830.9	6537.5	4681.1	5592.3	7291.8	134999.0 CMSDAY
MEAN	112.7	157.6	253.7	364.3	614.2	1210.1	695.2	227.7	210.9	151.0	199.7	235.2	369.9 CMS
MAX	138.2	281.5	472.8	1111.4	1259.0	1417.0	1020.0	315.2	361.2	252.0	324.3	276.2	1417.0 CMS
MIN	60.5	88.9	112.7	127.7	289.9	737.0	330.1	152.2	96.1	67.3	119.5	200.4	60.5 CMS
RUNOFF	292.03	422.25	657.55	975.68	1645.05	3136.58	1862.12	590.19	564.84	404.45	483.17	630.01	11663.91 MCM

MOMENTARY PEAK 1419.00 CMS, AT 36.87 M (M&L), AT 13.00 HOURS, ON SEP 10, 1980

RUNOFF YIELD 12.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 48.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT BANG MUN NAK, PHICHIT (N.8)

LOCATION — LAT. 16°-01'-50" N., LONG. 100°-22'-53" E., ON LEFT BANK ABOUT 100 METERS UPSTREAM FROM BANG MUN NAK MARKET, AMPHOE BANG MUN NAK, PHICHIT.

DRAINAGE AREA — 32,878 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +19.80 M. (M.S.L.)

BENCH MARK — B.M.-H.D. NO.8

LOCATION — INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — +30.523 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1951 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1967, 1973-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1967, 1973-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

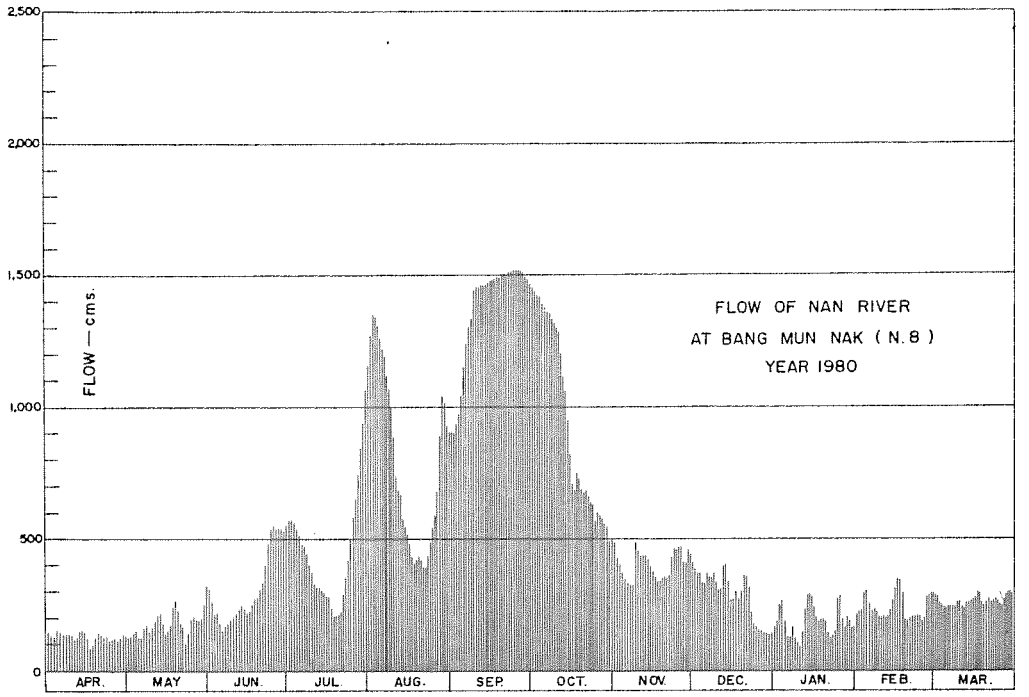
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 206 DISCHARGE MEASUREMENTS MADE DURING 1973-1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	22.17	22.07	23.90	25.91	29.48	27.88	30.22	26.34	24.60	22.56	23.15	23.83	
2	22.10	22.00	23.29	25.99	29.73	27.91	30.19	25.86	24.42	23.30	23.07	23.61	
3	21.97	22.21	22.90	25.90	29.68	28.12	30.16	25.49	24.43	23.46	23.72	23.45	
4	22.05	22.21	22.98	25.64	29.52	28.35	30.14	25.25	24.11	22.83	23.86	23.35	
5	22.31	22.04	22.66	25.50	29.33	29.02	30.09	25.12	24.12	22.04	23.40	23.21	
6	22.12	22.01	22.28	25.31	29.18	29.34	30.06	24.95	24.43	21.94	23.04	23.32	
7	22.09	22.44	22.52	25.22	28.94	29.54	30.05	24.78	24.29	22.40	23.22	23.33	
8	22.19	22.46	22.66	24.99	28.54	29.67	30.01	24.91	24.41	21.93	23.21	23.27	
9	22.16	22.16	22.75	24.66	28.16	30.03	29.97	25.34	24.17	21.54	22.82	23.38	
10	22.02	22.44	22.80	24.37	27.36	30.07	29.94	25.09	23.94	22.53	22.86	23.53	
11	21.89	22.68	23.02	24.15	26.67	30.09	29.88	24.96	24.14	23.45	22.87	23.29	
12	22.13	22.90	23.10	24.03	26.05	30.10	29.45	24.99	24.71	23.74	22.84	23.23	
13	22.31	22.99	23.32	24.01	25.98	30.10	29.31	24.96	24.73	23.74	23.11	23.45	
14	22.22	22.78	23.28	23.86	25.81	30.13	29.03	24.75	24.09	23.45	23.30	23.39	
15	22.06	22.37	23.02	23.73	25.54	30.18	28.48	24.63	23.53	22.96	23.88	23.54	
16	21.68	22.14	22.96	23.55	25.25	30.19	27.90	24.43	23.56	22.71	24.27	23.61	
17	21.43	22.46	23.30	23.21	24.82	30.20	27.72	24.20	23.78	22.76	24.25	23.82	
18	21.60	23.23	23.53	22.89	24.79	30.22	28.06	24.15	23.51	22.80	23.69	23.77	
19	22.11	23.45	23.58	22.87	25.00	30.23	27.92	24.32	23.85	22.42	22.69	23.33	
20	22.21	23.11	23.82	22.94	24.82	30.25	27.67	24.36	24.35	22.09	22.75	23.41	
21	22.08	22.63	24.18	23.07	24.63	30.25	27.76	24.25	24.33	22.01	22.90	23.58	
22	21.97	22.34	24.52	23.88	24.69	30.27	27.66	24.52	23.62	21.96	22.91	23.54	
23	21.98	21.78	25.13	24.58	25.18	30.28	27.47	25.21	22.83	22.27	22.91	23.53	
24	21.85	22.27	25.62	25.26	25.70	30.29	27.41	25.15	22.49	23.51	22.90	23.58	
25	21.90	22.84	25.79	25.70	26.02	30.31	27.02	25.20	22.40	23.58	22.66	23.44	
26	21.98	22.89	25.68	26.13	26.70	30.31	27.22	25.21	22.31	22.82	22.90	23.28	
27	21.91	22.78	25.74	26.78	27.73	30.30	27.10	24.74	22.25	22.48	23.57	23.63	
28	21.96	22.72	25.66	27.48	28.53	30.28	26.97	24.78	22.20	22.85	23.78	23.81	
29	22.15	22.82	25.61	28.10	28.45	30.27	26.78	25.20	22.15	22.60		23.82	
30	22.13	23.55	25.65	28.61	28.11	30.25	26.53	24.94	22.11	22.26		23.84	
31		24.00		29.00	27.87		26.53		22.20	22.91		23.75	
MEAN	22.02	22.61	23.84	25.07	27.04	29.81	28.54	24.94	23.61	22.71	23.23	23.51	
MAX	22.31	24.00	25.79	29.00	29.73	30.31	30.22	26.34	24.73	23.74	24.27	23.84	30.31
MIN	21.43	21.78	22.28	22.87	24.63	27.88	26.53	24.15	22.11	21.54	22.66	23.21	21.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 30.31 M (MSL), AT 8.00 HOURS, ON SEP 26, 1980
ZERO GAGE AT BOTTOM ELEVATION 19.80 M (MSL), RIVER BED 18.33 M (MSL)
LEFT BANK ELEVATION 30.36 M (MSL)
RIGHT BANK ELEVATION 30.70 M (MSL), DRAINAGE AREA 22878 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	138.9	130.6	304.5	562.5	1286.6	905.0	1461.4	474.2	384.0	173.4	229.0	297.1	
2	133.0	125.0	243.0	574.5	1354.1	911.1	1443.1	419.3	362.4	244.0	221.2	275.0	
3	122.6	142.3	205.0	561.0	1340.6	955.2	1425.4	382.5	363.6	260.0	286.0	259.0	
4	129.0	142.3	212.6	532.0	1297.4	1005.5	1413.6	361.3	327.1	198.4	300.3	249.0	
5	150.9	128.2	182.4	510.2	1246.8	1166.2	1384.9	350.6	328.2	128.2	254.0	235.0	
6	134.7	125.8	148.3	477.2	1207.8	1249.4	1369.6	337.2	363.6	120.2	218.3	246.0	
7	132.2	162.6	169.8	464.7	1146.0	1302.8	1364.5	324.6	346.9	159.0	236.0	247.0	
8	140.6	164.4	182.4	433.7	1049.2	1337.9	1344.1	423.3	361.2	119.4	235.0	241.0	
9	138.1	138.1	190.8	391.5	963.6	1438.7	1324.9	482.4	333.7	89.9	197.4	252.0	
10	126.6	162.6	195.5	356.4	803.4	1450.3	1310.8	447.1	308.7	170.7	201.2	267.0	
11	116.2	184.2	216.4	331.5	681.2	1456.1	1283.4	429.8	330.4	259.0	202.2	243.0	
12	135.5	205.0	224.0	318.3	583.5	1459.0	1136.0	433.7	397.7	288.0	199.3	237.0	
13	150.9	213.5	246.0	316.1	573.0	1459.0	1093.0	429.8	400.3	288.0	225.0	259.0	
14	143.2	193.6	242.0	300.3	550.9	1467.7	1003.0	402.8	324.9	259.0	244.0	253.0	
15	129.8	156.3	216.4	287.0	517.1	1482.2	848.0	387.7	267.0	210.7	302.4	268.0	
16	100.2	136.4	210.7	269.0	468.8	1485.1	716.0	363.6	270.0	187.0	344.7	275.0	
17	82.4	164.4	244.0	235.0	411.6	1488.0	682.6	337.0	292.0	191.7	342.5	296.1	
18	94.3	237.0	267.0	204.1	407.7	1493.9	749.6	331.5	265.0	195.5	283.0	291.0	
19	133.8	259.0	272.0	202.2	435.0	1496.9	720.2	350.4	299.2	160.8	185.1	247.0	
20	142.3	225.0	296.1	208.8	411.6	1502.8	673.6	355.2	354.0	132.2	190.8	255.0	
21	131.4	179.7	334.8	221.2	387.7	1502.8	689.8	342.5	351.6	125.8	205.0	272.0	
22	122.6	153.6	374.4	302.4	395.2	1508.6	671.8	374.4	276.0	121.8	206.0	268.0	
23	123.4	107.5	452.5	381.6	459.3	1511.6	638.9	463.3	198.4	147.4	206.0	267.0	
24	113.0	147.4	529.7	470.1	538.7	1514.5	628.7	455.2	167.1	265.0	205.0	272.0	
25	117.0	199.3	548.7	538.7	579.0	1520.4	569.0	462.0	159.0	272.0	182.4	258.0	
26	123.4	204.1	536.4	595.6	686.0	1520.4	599.0	463.3	150.9	197.4	205.0	242.0	
27	117.8	193.6	543.1	699.2	875.0	1511.0	581.0	401.5	145.8	166.2	271.0	277.0	
28	121.8	187.9	534.2	826.2	1046.9	1498.6	561.5	406.5	141.5	200.3	292.0	295.0	
29	137.2	197.4	528.6	951.0	1028.5	1492.4	533.7	462.0	137.2	177.0		296.1	
30	135.5	269.0	533.1	1065.4	953.1	1480.0	499.0	427.2	133.8	146.6		298.2	
31		315.0		1161.0	903.0		499.0		141.5	206.0		289.0	
TOTAL	3818.3	5550.8	9384.4	14748.4	24588.3	41573.1	29219.1	12081.9	8682.7	5860.6	6669.8	8226.5	170403.7 CMSDAY
MEAN	127.3	179.1	312.8	475.8	793.2	1385.8	942.6	402.7	280.1	189.1	238.2	265.4	466.9 CMS
MAX	150.9	315.0	548.7	1161.0	1354.1	1520.4	1461.4	482.4	400.3	288.0	344.7	298.2	1520.4 CMS
MIN	82.4	107.5	148.3	202.2	387.7	905.0	499.0	324.6	133.8	89.9	182.4	235.0	82.4 CMS
RUNOFF	329.90	479.59	810.81	1274.26	2124.43	3591.91	2524.53	1043.88	750.18	506.36	576.27	710.77	14722.87 MCM

MOMENTARY PEAK 1520.45 CMS, AT 30.31 M (MSL), AT 8.00 HOURS, ON SEP 26, 1980

RUNOFF YIELD 20.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 66.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT TAPHAN HIN, PHICHIT (N.10A)

LOCATION — LAT. 16°-12'-42" N., LONG. 100°-25'-01" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM WAT THEVA PRASAT, TAMBON HUAI KET, AMPHOE TAPHAN HIN, PHICHIT.

DRAINAGE AREA — 30,765 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +22.280 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +33.30 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974-1979

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 497 DISCHARGE MEASUREMENTS MADE DURING 1974-1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

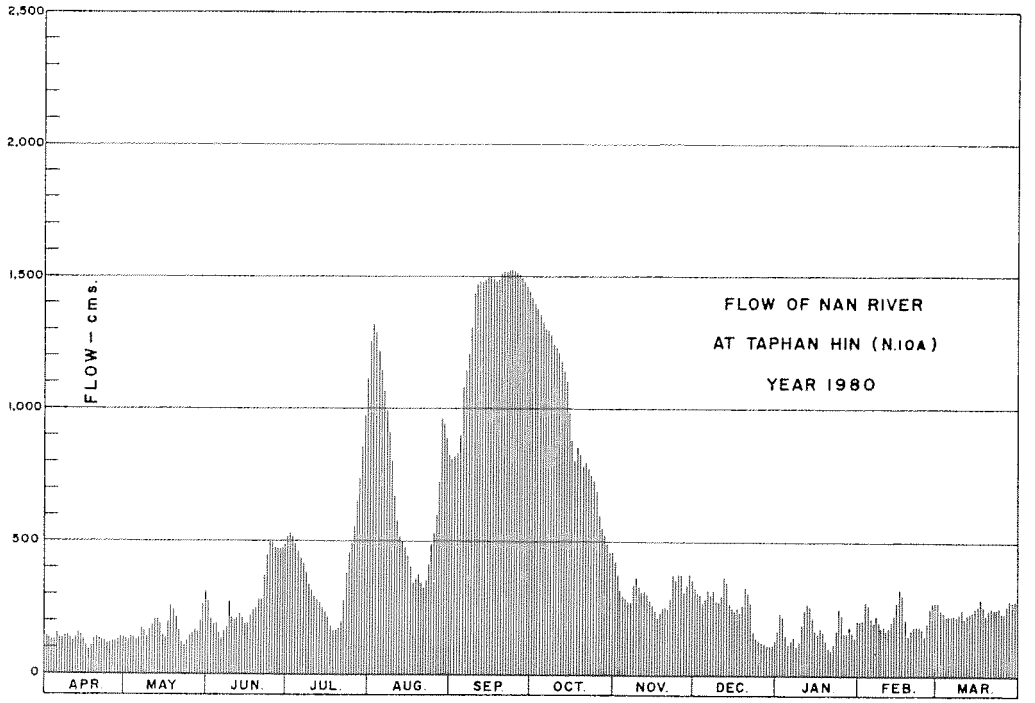
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.24	24.08	25.58	27.66	31.83	29.60	32.28	26.94	25.97	24.53	24.96	25.63	
2	24.19	24.12	24.90	27.72	32.01	29.70	32.21	26.37	25.87	25.22	24.99	25.38	
3	24.06	24.27	24.75	27.59	31.87	29.69	32.19	26.01	25.88	25.10	25.68	25.29	
4	24.13	24.20	24.79	27.32	31.60	30.14	32.11	25.82	25.52	24.30	25.54	25.13	
5	24.37	24.04	24.33	27.17	31.31	31.08	32.00	25.79	25.76	23.92	25.01	25.12	
6	24.20	24.15	24.18	26.98	31.00	31.45	31.94	25.66	26.04	24.10	24.83	25.15	
7	24.17	24.58	24.46	26.89	30.61	31.64	31.94	25.57	25.87	24.24	25.10	25.17	
8	24.26	24.39	24.54	26.58	30.12	31.93	31.80	26.20	26.04	23.82	24.90	25.10	
9	24.23	24.24	25.61	26.20	29.60	32.38	31.76	26.44	25.65	24.01	24.57	25.28	
10	24.13	24.57	24.71	25.87	28.65	32.43	31.72	26.10	25.60	24.79	24.70	25.38	
11	23.99	24.76	24.93	25.74	27.97	32.46	31.61	25.96	25.89	25.36	24.52	25.04	
12	24.21	24.99	25.00	25.63	27.56	32.46	31.45	26.02	26.48	25.55	24.68	25.19	
13	24.37	24.97	25.17	25.61	27.55	32.47	31.28	25.92	26.28	25.48	24.94	25.28	
14	24.29	24.69	25.01	25.39	27.33	32.50	30.95	25.69	25.53	25.08	25.15	25.25	
15	24.14	24.26	24.75	25.29	27.05	32.51	30.33	25.55	25.25	24.60	25.70	25.40	
16	23.81	24.24	24.79	25.07	26.72	32.49	29.69	25.31	25.30	24.44	26.10	25.47	
17	23.59	24.72	25.15	24.67	26.29	32.47	29.50	25.06	25.47	24.60	25.89	25.72	
18	23.74	25.41	25.30	24.45	26.42	32.48	29.86	25.19	25.15	24.50	24.96	25.49	
19	24.19	25.38	25.39	24.54	26.54	32.53	29.71	25.43	25.72	24.08	24.28	25.13	
20	24.28	24.96	25.72	24.57	26.28	32.55	29.45	25.49	26.12	23.77	24.58	25.35	
21	24.16	24.47	25.56	24.85	26.12	32.55	29.54	25.32	25.94	23.63	24.74	25.45	
22	24.06	23.97	26.47	25.80	26.31	32.56	29.44	25.85	25.03	23.68	24.74	25.39	
23	24.07	23.80	27.07	26.45	26.90	32.57	29.24	26.52	24.34	24.44	24.74	25.39	
24	23.96	23.97	27.47	27.13	27.38	32.55	29.17	26.36	24.13	25.39	24.65	25.46	
25	24.00	24.32	27.50	27.50	27.75	32.53	28.78	26.56	24.11	25.20	24.28	25.21	
26	24.07	24.42	27.32	28.02	28.56	32.53	28.22	26.55	24.03	24.42	24.76	25.19	
27	24.01	24.53	27.28	28.71	29.76	32.48	27.81	25.97	23.98	24.42	25.40	25.58	
28	24.05	24.48	27.27	29.46	30.48	32.43	27.71	26.25	23.95	24.67	25.62	25.68	
29	24.22	24.89	27.28	30.11	30.28	32.39	27.45	26.56	23.89	24.26		25.62	
30	24.21	25.64	27.35	30.69	29.86	32.35	27.17	26.26	23.90	24.21		25.70	
31		25.95		31.25	29.62		27.23		24.11	24.99		25.62	
MEAN	24.11	24.56	25.65	26.80	28.75	32.00	30.18	25.96	25.25	24.54	25.00	25.36	
MAX	24.37	25.95	27.50	31.25	32.01	32.57	32.28	26.94	26.48	25.55	26.10	25.72	32.57
MIN	23.59	23.80	24.18	24.45	26.12	29.60	27.17	25.06	23.89	23.63	24.28	25.04	23.59

ANNUAL MAX MOMENTARY GAGE HEIGHT — 32.57 M (MSL), AT 12.00 HOURS, ON SEP 23, 1980

ZERO GAGE AT BOTTOM ELEVATION — 22.28 M (MSL), RIVER BED — 20.82 M (MSL)

LEFT BANK ELEVATION — 33.18 M (MSL)

RIGHT BANK ELEVATION — 33.08 M (MSL), DRAINAGE AREA — 30765 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	142.9	129.3	269.5	522.1	1266.4	811.0	1412.8	428.0	311.7	168.7	207.4	274.9	
2	138.6	132.7	202.0	530.2	1320.3	828.0	1387.6	357.4	300.7	233.0	210.1	249.0	
3	127.6	145.4	188.5	512.6	1277.6	826.3	1380.6	316.1	301.8	221.0	280.2	240.0	
4	133.5	139.5	192.1	477.1	1206.0	905.2	1353.4	295.2	263.1	148.0	265.3	224.0	
5	154.3	125.9	150.7	457.6	1136.7	1087.2	1317.0	291.9	288.7	115.7	212.0	223.0	
6	139.5	135.2	137.8	433.0	1070.0	1169.0	1298.4	278.1	319.4	131.0	195.7	226.0	
7	136.9	173.2	162.4	421.7	973.9	1216.0	1298.4	268.5	300.7	142.9	221.0	228.0	
8	144.6	156.1	169.6	383.0	901.6	1295.3	1258.0	337.0	319.4	107.6	202.0	221.0	
9	142.0	142.9	272.7	337.0	811.0	1450.4	1247.2	365.8	277.0	123.3	172.3	239.0	
10	133.5	172.3	184.9	300.7	660.5	1470.3	1236.4	326.0	271.7	192.1	184.0	249.0	
11	121.6	189.4	204.7	286.6	563.9	1482.6	1208.5	310.6	302.9	247.0	167.8	215.0	
12	140.3	210.1	211.0	274.9	508.6	1482.6	1169.0	317.2	370.6	266.3	182.2	230.0	
13	154.3	208.3	228.0	272.7	507.2	1486.7	1130.2	306.2	346.6	259.0	205.6	239.0	
14	147.1	183.1	212.0	250.0	478.4	1499.0	1060.0	281.3	264.2	219.0	226.0	236.0	
15	134.4	144.6	188.5	240.0	442.0	1503.3	940.0	266.3	236.0	175.0	282.3	251.0	
16	106.8	142.9	192.1	218.0	400.5	1494.9	826.3	242.0	241.0	160.6	326.0	258.0	
17	90.2	185.8	226.0	181.3	347.8	1486.7	794.0	217.0	258.0	175.0	302.9	284.5	
18	101.5	252.0	241.0	161.5	363.4	1490.8	855.2	230.0	226.0	166.0	207.4	260.0	
19	138.6	249.0	250.0	169.6	378.0	1511.9	829.7	254.0	284.5	129.3	146.3	224.0	
20	146.3	207.4	284.5	172.3	346.6	1520.5	785.5	260.0	328.2	103.7	173.2	246.0	
21	136.1	163.3	267.4	197.5	328.2	1520.5	800.8	243.0	308.4	93.2	187.6	256.0	
22	127.6	119.9	369.4	293.0	350.2	1524.8	783.8	298.5	214.0	97.0	187.6	250.0	
23	128.4	106.0	444.6	367.0	423.0	1529.1	750.4	375.5	151.6	160.6	187.6	250.0	
24	119.1	119.9	496.6	452.4	484.9	1520.5	739.2	356.2	133.5	250.0	179.5	257.0	
25	122.5	149.8	500.5	500.5	534.2	1511.9	680.0	380.5	131.8	231.0	146.3	232.0	
26	128.4	158.8	477.1	570.8	647.0	1511.9	598.8	379.2	125.1	158.8	189.4	230.0	
27	123.3	168.7	471.9	669.5	838.2	1490.8	542.3	311.7	120.8	158.8	251.0	269.5	
28	126.7	164.2	470.6	787.2	960.2	1470.3	528.8	343.0	118.2	181.3	273.8	280.2	
29	141.2	201.1	471.9	899.8	930.8	1454.2	494.0	380.5	113.2	144.6		273.8	
30	140.3	275.9	481.0	997.5	855.2	1439.0	457.6	344.2	114.0	140.3		282.3	
31		309.5		1123.7	814.4		465.4		131.8	210.1		273.8	
TOTAL	3968.1	5362.2	8619.0	13460.8	22126.7	40990.7	29629.3	9360.9	7474.6	5309.9	5972.5	7672.0	159946.5 CMSDAY
MEAN	132.3	173.0	287.3	434.2	713.8	1366.4	955.8	312.0	241.1	171.3	213.3	247.5	438.2 CMS
MAX	154.3	309.5	500.5	1123.7	1320.3	1529.1	1412.8	428.0	370.6	266.3	326.0	284.5	1529.1 CMS
MIN	90.2	106.0	137.8	161.5	328.2	811.0	457.6	217.0	113.2	93.2	146.3	215.0	90.2 CMS
RUNOFF	342.84	463.29	744.68	1163.01	1911.74	3541.59	2559.97	808.78	645.80	458.77	516.02	662.86	13819.37 MCM

MOMENTARY PEAK 1529.10 CMS, AT 32.57 M (MSL), AT 12.00 HOURS, ON SEP 23, 1980

RUNOFF YIELD 14.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 49.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT BAN HAT PHAI, UTTARADIT (N.12A)

LOCATION — LAT. 17°-44'-10" N., LONG. 100°-32'-28" E., ON RIGHT BANK ABOUT 4 KILOMETERS DOWNSTREAM FROM SIRIKIT DAM SITE, ALONG PHASOM-SILOT ROAD AT BAN HAT PHAI, AMPHOE THA PHA, UTTARADIT.

DRAINAGE AREA — 15,718 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +69.00 M. (M.S.L.)

BENCH MARK — B.M.-R.I.D.

LOCATION — ON RIGHT BANK INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — B.M.1=+84.00 M. (M.S.L.), B.M.2=+83.655 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

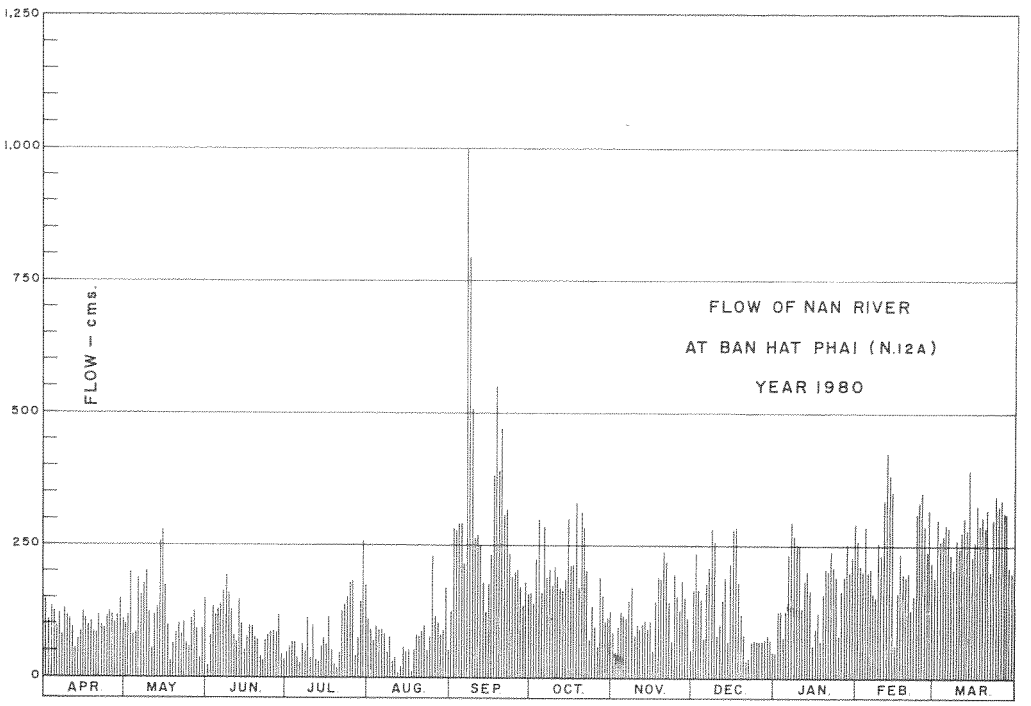
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 133 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	71.30	70.85	69.96	70.29	70.89	71.09	71.39	70.84	71.34	70.20	72.12	71.53	
2	70.91	71.05	70.77	70.46	70.86	72.24	71.25	70.36	71.93	71.05	71.76	72.32	
3	71.18	71.68	71.20	70.54	70.60	72.18	71.63	70.91	71.42	71.14	71.70	72.06	
4	71.13	70.68	71.07	70.66	70.90	72.27	72.32	70.89	71.31	70.69	72.24	72.11	
5	70.86	70.78	71.17	70.27	70.78	72.29	71.40	71.12	70.65	71.04	71.62	72.29	
6	71.11	71.59	71.19	69.89	70.85	71.80	72.24	71.02	71.54	71.80	71.74	72.22	
7	70.67	71.35	71.44	70.52	70.71	75.23	71.62	71.19	71.50	72.33	71.57	72.16	
8	71.16	71.53	71.44	70.32	70.34	74.65	71.74	71.49	72.23	72.14	71.22	71.63	
9	71.07	71.71	71.64	71.04	70.69	73.03	71.52	70.61	72.07	72.08	72.05	72.22	
10	70.99	71.17	71.12	70.15	70.14	72.10	71.77	70.91	70.68	72.01	71.92	71.93	
11	70.88	70.41	70.63	70.91	70.22	72.16	71.58	70.85	70.88	71.16	71.97	72.14	
12	70.37	71.07	70.56	70.21	69.79	72.06	70.96	70.91	71.18	71.57	72.97	72.34	
13	70.52	71.17	71.28	70.01	69.99	71.66	71.45	70.95	71.62	71.68	72.85	72.19	
14	70.74	72.06	70.93	70.48	70.45	71.12	71.52	70.83	70.56	71.43	72.60	72.81	
15	71.14	72.20	70.35	70.68	70.37	71.54	72.34	70.95	71.76	70.49	70.53	71.89	
16	71.03	71.41	70.73	70.48	70.38	71.90	71.75	70.33	72.21	70.82	71.41	72.07	
17	70.91	70.77	70.92	71.03	69.81	72.90	71.76	71.12	72.24	71.09	71.92	72.46	
18	70.86	70.05	70.89	70.40	70.36	73.57	72.52	71.65	71.42	70.54	71.76	72.24	
19	70.96	70.53	70.53	70.25	70.77	72.82	71.48	71.58	71.08	71.30	71.61	72.34	
20	70.64	70.60	70.65	69.82	70.75	73.20	72.42	71.88	70.85	71.73	71.68	72.21	
21	71.05	70.95	70.23	70.33	70.77	72.38	72.24	71.97	70.09	71.71	71.15	72.43	
22	70.89	70.74	70.14	71.13	70.88	72.43	71.34	71.14	70.16	71.97	71.34	71.71	
23	70.83	70.95	70.59	71.24	70.27	71.89	70.64	70.58	70.60	71.73	72.32	72.29	
24	71.02	70.61	70.74	71.35	70.65	71.65	71.22	71.66	70.59	71.64	72.40	72.58	
25	71.14	70.41	70.78	71.57	71.91	71.68	70.90	71.36	70.62	70.71	72.58	72.40	
26	71.09	71.01	70.84	70.76	71.03	71.72	70.48	71.13	70.61	71.42	72.59	72.55	
27	70.91	71.13	70.77	70.25	70.96	71.50	71.60	71.57	70.60	71.58	71.92	72.42	
28	71.04	70.81	71.06	70.67	70.69	71.22	71.40	71.35	70.60	72.05	72.42	72.41	
29	71.30	70.18	70.29	71.50	70.77	71.58	70.96	71.09	70.70	71.74		71.74	
30	71.00	70.83	70.21	72.38	71.44	71.38	71.01	70.32	70.68	71.93		71.73	
31		71.32		71.51	70.36		71.15		70.43	72.82		71.67	
MEAN	70.96	71.02	70.80	70.68	70.63	72.24	71.54	71.09	71.10	71.47	71.93	72.16	
MAX	71.30	72.20	71.64	72.38	71.91	75.23	72.52	71.97	72.24	72.82	72.97	72.81	75.23
MIN	70.37	70.05	69.96	69.82	69.79	71.09	70.48	70.32	70.09	70.20	70.53	71.53	69.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 76.58 M (MSL), AT 11.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 69.00 M (MSL), RIVER BED 67.45 M (MSL)
LEFT BANK ELEVATION 84.98 M (MSL)
RIGHT BANK ELEVATION 83.73 M (MSL), DRAINAGE AREA 15718 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	147.50	93.75	21.00	44.42	98.35	121.80	158.75	92.60	152.50	37.00	264.80	177.55	
2	100.65	117.00	85.30	58.45	94.90	284.60	141.25	50.20	234.50	117.00	209.40	297.80	
3	132.60	198.20	135.00	65.05	70.00	274.70	191.20	100.65	162.70	127.80	201.00	254.90	
4	126.60	77.20	119.40	75.40	99.50	289.55	297.80	98.35	148.75	78.10	284.60	263.15	
5	94.90	86.20	131.40	42.77	86.20	292.85	160.00	125.40	74.50	115.80	189.80	292.85	
6	124.20	185.65	133.80	17.50	93.75	215.00	284.60	113.40	178.90	215.00	206.60	281.30	
7	76.30	153.75	165.40	63.40	79.90	994.00	189.80	133.80	173.50	299.45	182.95	271.40	
8	130.20	177.55	165.40	46.90	48.55	823.75	206.60	172.15	282.95	268.10	137.50	191.20	
9	119.40	202.40	192.60	115.80	78.10	434.00	176.20	70.90	256.55	258.20	253.25	281.30	
10	109.85	131.40	125.40	33.50	32.80	261.50	210.80	100.65	77.20	246.65	233.00	234.50	
11	97.20	54.32	72.70	100.65	38.65	271.40	184.30	93.75	97.20	130.20	240.50	268.10	
12	51.03	119.40	66.70	37.82	12.60	254.90	106.40	100.65	132.60	182.95	422.00	301.10	
13	63.40	131.40	145.00	23.70	22.50	195.40	166.75	105.25	189.80	198.20	398.00	276.35	
14	82.60	254.90	102.95	60.10	57.63	125.40	176.20	91.45	66.70	164.05	349.00	390.00	
15	127.80	278.00	49.37	77.20	51.03	178.90	301.10	105.25	209.40	60.92	64.23	228.50	
16	114.60	161.35	81.70	60.10	51.85	230.00	208.00	47.72	279.65	90.30	161.35	256.55	
17	100.65	85.30	101.80	114.60	13.50	408.00	209.40	125.40	284.60	121.80	233.00	322.40	
18	94.90	26.50	98.35	53.50	50.20	547.10	333.80	194.00	162.70	65.05	209.40	284.60	
19	106.40	64.23	64.23	41.13	85.30	392.00	170.80	184.30	120.60	147.50	188.40	301.10	
20	73.60	70.00	74.50	14.00	83.50	468.00	314.80	227.00	93.75	205.20	198.20	279.65	
21	117.00	105.25	39.47	47.72	85.30	307.70	284.60	240.50	29.30	202.40	129.00	316.70	
22	98.35	82.60	32.80	126.60	97.20	316.70	152.50	127.80	34.20	240.50	152.50	202.40	
23	91.45	105.25	69.18	140.00	42.77	228.50	73.60	68.35	70.00	205.20	297.80	292.85	
24	113.40	70.90	82.60	153.75	74.50	194.00	137.50	195.40	69.18	192.60	311.00	345.20	
25	127.80	54.32	86.20	182.95	231.50	198.20	99.50	155.00	71.80	79.90	345.20	311.00	
26	121.80	112.20	92.60	84.40	114.60	203.80	60.10	126.60	70.90	162.70	347.10	339.50	
27	100.65	126.60	85.30	41.13	106.40	173.50	187.00	182.95	70.00	184.30	233.00	314.80	
28	115.80	89.15	118.20	76.30	78.10	137.50	160.00	153.75	70.00	253.25	314.80	312.90	
29	147.50	35.60	44.42	173.50	85.30	184.30	106.40	121.80	79.00	206.60		206.60	
30	111.00	91.45	37.82	307.70	165.40	157.50	112.20	46.90	77.20	234.50		205.20	
31		150.00		174.85	50.20		129.00		55.97	392.00		196.80	
TOTAL	3219.13	3691.82	2820.59	2654.89	2380.08	9164.54	5690.95	3751.92	4076.60	5483.22	6757.38	8498.24	58189.30 CMSDAY
MEAN	107.30	119.09	94.02	85.64	76.78	305.48	183.58	125.06	131.50	176.88	241.33	274.14	159.42 CMS
MAX	147.50	278.00	192.60	307.70	231.50	994.00	333.80	240.50	284.60	392.00	422.00	390.00	994.00 CMS
MIN	51.03	26.50	21.00	14.00	12.60	121.80	60.10	46.90	29.30	37.00	64.23	177.55	12.60 CMS
RUNOFF	278.132	318.973	243.699	229.382	205.639	791.816	491.698	324.166	352.218	473.750	583.837	734.248	5027.554 MCM

MOMENTARY PEAK 1428.50 CMS, AT 76.58 M (MSL), AT 11.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 10.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 90.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT CHUM SAENG, NAKHON SAWAN (N.14A)

LOCATION — LAT. 15°-53'-56" N., LONG. 100°-18'-34" E., ON RIGHT BANK INFRONT OF WAT LUANG PHO KHAEO ABOUT 1 KILOMETER UPSTREAM FROM N.14, TAMBON PHIKUL, AMPHOE CHUM SAENG, NAKHON SAWAN.

DRAINAGE AREA — 33,182 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +19.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF AUTOMATIC GAGE BUILDING.

ELEVATION — +27.842 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1972 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

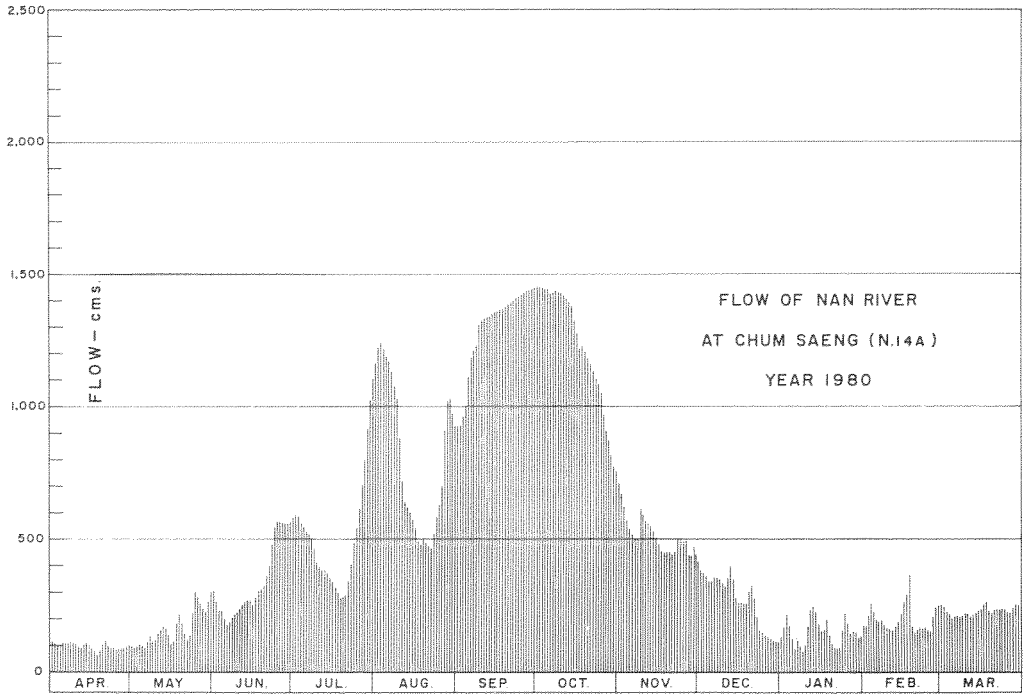
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +27.74 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 204 DISCHARGE MEASUREMENTS MADE DURING 1973-1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	20.37	20.24	22.22	24.19	26.98	26.00	27.91	25.70	22.95	20.58	21.14	21.79	
2	20.32	20.17	21.87	24.27	27.17	26.01	27.92	25.32	22.74	21.13	21.09	21.71	
3	20.24	20.28	21.54	24.23	27.20	26.16	27.91	25.00	22.70	21.43	21.51	21.54	
4	20.17	20.33	21.53	24.06	27.11	26.32	27.89	24.74	22.49	21.04	21.82	21.46	
5	20.36	20.25	21.34	23.94	27.00	26.78	27.90	24.57	22.37	20.37	21.48	21.29	
6	20.39	20.15	21.07	23.81	26.93	26.99	27.87	24.38	22.62	20.08	21.23	21.36	
7	20.36	20.44	21.14	23.73	26.78	27.11	27.88	24.19	22.57	20.49	21.19	21.36	
8	20.40	20.55	21.32	23.56	26.53	27.19	27.89	24.16	22.59	20.24	21.26	21.35	
9	20.37	20.34	21.40	23.32	26.24	27.44	27.88	24.41	22.50	19.89	21.03	21.38	
10	20.28	20.47	21.46	23.05	25.67	27.48	27.87	24.22	22.28	20.31	20.93	21.51	
11	20.16	20.70	21.61	22.90	25.11	27.52	27.85	24.09	22.36	21.27	20.93	21.44	
12	20.14	20.90	21.71	22.83	24.61	27.54	27.82	24.05	22.77	21.60	20.84	21.28	
13	20.35	21.02	21.89	22.79	24.45	27.56	27.78	24.00	22.88	21.66	21.02	21.45	
14	20.38	20.91	21.93	22.70	24.33	27.58	27.72	23.82	22.42	21.52	21.22	21.46	
15	20.32	20.61	21.82	22.57	24.10	27.60	27.61	23.72	21.90	21.10	21.53	21.53	
16	20.12	20.32	21.79	22.45	23.87	27.64	27.43	23.56	21.74	20.83	22.00	21.62	
17	19.87	20.48	22.03	22.22	23.53	27.64	27.33	23.35	21.87	20.79	22.13	21.79	
18	19.74	21.10	22.20	21.97	23.47	27.66	27.37	23.25	21.76	20.88	22.68	21.86	
19	20.03	21.39	22.23	21.93	23.65	27.68	27.32	23.32	21.84	20.62	20.95	21.54	
20	20.31	21.21	22.38	22.00	23.55	27.72	27.22	23.29	22.30	20.31	20.70	21.47	
21	20.40	20.87	22.65	22.09	23.39	27.73	27.19	23.19	22.37	20.17	20.88	21.60	
22	20.24	20.49	22.91	22.60	23.40	27.76	27.13	23.25	21.89	20.13	20.95	21.62	
23	20.18	20.59	23.41	23.16	23.76	27.79	27.05	23.67	21.25	20.23	20.95	21.60	
24	20.13	21.62	23.86	23.69	24.18	27.83	27.01	23.65	20.85	21.03	20.95	21.61	
25	20.05	22.15	24.07	24.05	24.43	27.85	26.89	23.57	20.70	21.46	20.83	21.57	
26	20.13	22.03	24.05	24.40	24.95	27.88	26.63	23.58	20.62	21.01	20.77	21.38	
27	20.14	21.75	24.09	24.90	25.72	27.89	26.44	23.20	20.54	20.74	21.28	21.56	
28	20.13	21.54	24.06	25.46	26.37	27.89	26.31	23.10	20.47	20.83	21.63	21.78	
29	20.21	21.48	24.00	25.96	26.39	27.90	26.14	23.39	20.42	20.78		21.81	
30	20.28	21.86	24.03	26.38	26.18	27.90	25.94	23.25	20.37	20.44		21.86	
31		22.19		26.70	25.99		25.87		20.37	20.77		21.83	
MEAN	20.22	20.92	22.39	23.61	25.26	27.40	27.32	23.90	21.85	20.77	21.25	21.56	
MAX	20.40	22.19	24.09	26.70	27.20	27.90	27.92	25.70	22.95	21.66	22.68	21.86	27.92
MIN	19.74	20.15	21.07	21.93	23.39	26.00	25.87	23.10	20.37	19.89	20.70	21.28	19.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 27.92 M (MSL), AT 8.00 HOURS, ON OCT 2, 1980
ZERO GAGE AT BOTTOM ELEVATION 19.00 M (MSL), RIVER BED 17.57 M (MSL)
LEFT BANK ELEVATION 27.74 M (MSL)
RIGHT BANK ELEVATION 27.91 M (MSL), DRAINAGE AREA 33182 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	111.3	99.6	309.4	585.8	1181.6	930.0	1444.9	717.0	406.0	130.2	187.4	258.9	
2	106.8	93.6	267.7	597.7	1232.9	932.4	1447.8	650.2	376.6	186.3	181.9	250.1	
3	99.6	103.2	231.4	591.8	1241.0	969.0	1444.9	605.0	371.0	219.3	228.1	231.4	
4	93.6	107.7	230.3	566.4	1216.7	1009.0	1435.8	571.2	343.7	176.4	262.2	222.6	
5	110.4	100.5	209.4	548.6	1187.0	1127.6	1440.0	549.1	328.1	111.3	224.8	203.9	
6	113.1	92.0	179.7	529.2	1168.1	1184.3	1427.4	525.6	360.6	86.4	197.3	211.6	
7	110.4	117.6	187.4	517.3	1127.6	1216.7	1431.6	502.8	354.1	122.1	192.9	211.6	
8	114.0	127.5	207.2	491.9	1061.8	1238.3	1435.8	499.2	356.7	99.6	200.6	210.5	
9	111.3	108.6	216.0	457.8	989.0	1308.6	1431.6	618.6	345.0	72.3	175.3	213.8	
10	103.2	120.3	222.6	420.0	854.4	1320.2	1427.4	590.3	316.6	105.9	165.0	228.1	
11	92.8	142.0	239.1	399.0	736.9	1331.8	1419.0	570.9	326.8	201.7	165.0	220.4	
12	91.2	162.0	250.1	389.2	649.6	1337.6	1406.4	564.9	380.8	238.0	156.0	202.8	
13	109.5	174.2	269.9	383.6	624.5	1343.4	1389.8	557.5	396.2	244.6	174.2	221.5	
14	112.2	163.0	274.6	371.0	606.7	1349.2	1365.2	530.7	334.6	229.2	196.2	222.6	
15	106.8	133.0	262.2	354.1	572.4	1355.0	1321.9	515.8	271.0	183.0	230.3	230.3	
16	89.6	106.8	258.9	338.5	538.1	1366.6	1251.7	491.9	253.4	155.0	283.0	240.2	
17	70.9	121.2	286.6	309.4	487.5	1366.6	1212.7	462.0	267.7	151.0	298.6	258.9	
18	61.8	183.0	307.0	279.4	478.8	1372.4	1228.3	448.0	255.6	160.0	368.4	266.6	
19	82.4	214.9	310.6	274.6	505.3	1378.2	1208.8	457.8	264.4	134.0	167.0	231.4	
20	105.9	195.1	329.4	283.0	490.4	1389.8	1171.4	453.6	319.0	105.9	142.0	223.7	
21	114.0	159.0	364.5	293.8	467.6	1392.7	1160.3	439.6	328.1	93.6	160.0	238.0	
22	99.6	122.1	400.4	358.0	469.0	1401.4	1138.1	448.0	269.9	90.4	167.0	240.2	
23	94.4	131.1	470.4	435.4	521.7	1410.1	1108.5	508.3	199.5	98.7	167.0	238.0	
24	90.4	240.2	536.6	511.3	584.3	1421.7	1093.7	505.3	157.0	175.3	167.0	239.1	
25	84.0	301.0	567.9	564.9	621.6	1427.5	1049.6	493.4	142.0	222.6	155.0	234.7	
26	90.4	286.6	564.9	617.1	707.0	1436.2	963.6	494.9	134.0	173.1	149.0	213.8	
27	91.2	254.5	570.9	698.0	865.4	1439.1	905.0	441.0	126.6	146.0	202.8	233.6	
28	90.4	231.4	566.4	808.2	1021.5	1439.1	866.9	427.0	120.3	155.0	241.3	257.8	
29	96.9	224.8	557.5	920.4	1026.5	1442.0	820.0	467.6	115.8	150.0		261.1	
30	103.2	266.6	562.0	1024.0	974.0	1442.0	770.0	448.0	111.3	117.6		266.6	
31		305.8		1106.0	927.6		753.1		111.3	149.0		263.3	
TOTAL	2951.3	5188.9	10211.0	16025.4	25136.5	39078.5	37971.2	15555.2	8443.7	4683.5	5605.3	7247.1	178097.3 CMSDAY
MEAN	98.4	167.4	340.4	516.9	810.9	1302.6	1224.9	518.5	272.4	151.1	200.2	233.8	487.9 CMS
MAX	114.0	305.8	570.9	1106.0	1241.0	1442.0	1447.8	717.0	406.0	244.6	368.4	266.6	1447.8 CMS
MIN	61.8	92.0	179.7	274.6	467.6	930.0	753.1	427.0	111.3	72.3	142.0	202.8	61.8 CMS
RUNOFF	254.99	448.32	882.23	1384.59	2171.79	3376.38	3280.71	1343.97	729.53	404.65	484.30	626.15	15387.60 MCM

MOMENTARY PEAK 1447.80 CMS, AT 27.92 M (MSL), AT 8.00 HOURS, ON OCT 2, 1980

RUNOFF YIELD 14.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 43.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT BAN MON, NAN (N.17)

LOCATION — LAT. 19°-24'-34" N., LONG. 100°-52'-05" E., ON LEFT BANK AT BAN MON, AMPHOE THUNG CHANG, NAN.

DRAINAGE AREA — 1,156 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 20 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +13.390 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1964 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969-1973

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

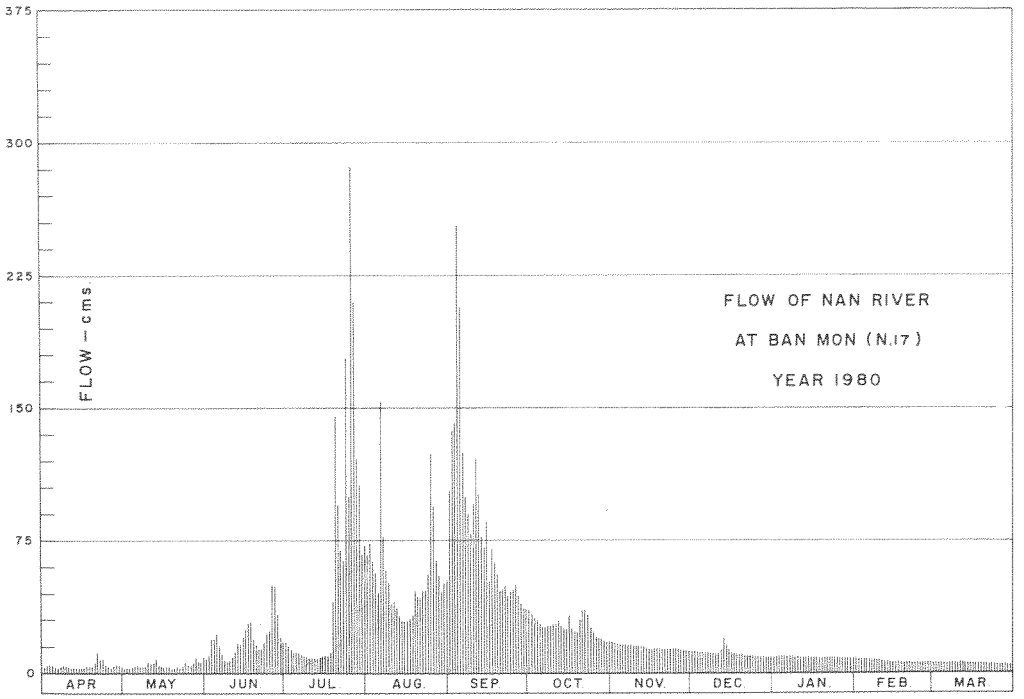
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 535 DISCHARGE MEASUREMENTS MADE DURING 1969-1971, 1973.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.40	0.60	0.91	1.79	2.17	1.30	0.92	0.75	0.66	0.60	0.53	
2	0.44	0.41	0.57	0.86	1.88	2.59	1.25	0.90	0.75	0.66	0.59	0.52	
3	0.48	0.40	1.00	0.79	1.75	2.62	1.20	0.88	0.74	0.66	0.59	0.52	
4	0.45	0.40	0.96	0.74	1.60	3.58	1.18	0.87	0.73	0.65	0.59	0.52	
5	0.43	0.46	1.02	0.74	1.46	3.21	1.15	0.87	0.73	0.66	0.59	0.52	
6	0.42	0.46	0.87	0.72	2.74	2.45	1.11	0.87	0.72	0.66	0.59	0.52	
7	0.43	0.44	0.72	0.68	1.93	2.19	1.11	0.86	0.72	0.66	0.58	0.52	
8	0.46	0.43	0.60	0.66	1.65	2.08	1.13	0.86	0.71	0.65	0.58	0.51	
9	0.44	0.43	0.57	0.64	1.57	1.95	1.12	0.87	0.71	0.64	0.58	0.56	
10	0.42	0.52	0.58	0.63	1.50	2.13	1.14	0.85	0.71	0.64	0.58	0.54	
11	0.41	0.49	0.59	0.61	1.40	2.43	1.12	0.84	0.70	0.64	0.57	0.55	
12	0.40	0.50	0.78	0.61	1.30	2.22	1.19	0.83	0.71	0.64	0.57	0.54	
13	0.39	0.58	0.89	0.60	1.24	1.94	1.11	0.83	0.97	0.63	0.57	0.52	
14	0.38	0.46	0.86	0.63	1.18	1.86	1.10	0.82	0.82	0.63	0.57	0.51	
15	0.39	0.44	0.98	0.65	1.18	2.03	1.09	0.81	0.74	0.63	0.56	0.51	
16	0.42	0.41	1.07	0.69	1.19	1.58	1.24	0.80	0.72	0.63	0.56	0.51	
17	0.47	0.43	1.16	0.66	1.20	1.84	1.08	0.80	0.71	0.62	0.55	0.50	
18	0.45	0.44	1.17	0.68	1.22	1.72	1.04	0.80	0.70	0.62	0.55	0.50	
19	0.44	0.40	0.95	1.22	1.49	1.60	1.09	0.80	0.70	0.62	0.55	0.50	
20	0.50	0.39	0.86	2.66	1.44	1.50	1.17	0.80	0.70	0.61	0.55	0.49	
21	0.73	0.43	0.80	1.96	1.42	1.51	1.35	0.80	0.69	0.61	0.55	0.49	
22	0.60	0.42	0.79	1.82	1.52	1.55	1.33	0.79	0.68	0.61	0.55	0.49	
23	0.60	0.44	0.85	1.76	1.49	1.45	1.25	0.79	0.68	0.61	0.55	0.49	
24	0.48	0.52	1.00	2.95	1.61	1.50	1.08	0.81	0.68	0.61	0.54	0.49	
25	0.44	0.47	1.03	2.21	2.47	1.52	1.03	0.81	0.67	0.61	0.54	0.49	
26	0.41	0.45	1.55	3.79	2.05	1.56	1.01	0.80	0.67	0.61	0.54	0.49	
27	0.44	0.47	1.53	2.75	1.80	1.41	0.98	0.78	0.67	0.61	0.53	0.51	
28	0.47	0.64	1.28	2.40	1.61	1.39	0.96	0.77	0.67	0.61	0.53	0.50	
29	0.47	0.53	1.05	2.24	1.48	1.33	0.94	0.77	0.66	0.61		0.50	
30	0.47	0.53	0.92	1.83	1.56	1.32	0.93	0.76	0.66	0.60		0.49	
31		0.65		1.87	1.58		0.94		0.66	0.60		0.49	
MEAN	0.46	0.47	0.92	1.35	1.59	1.94	1.12	0.83	0.71	0.63	0.56	0.51	
MAX	0.73	0.65	1.55	3.79	2.74	3.58	1.35	0.92	0.97	0.66	0.60	0.56	3.79
MIN	0.38	0.39	0.57	0.60	1.18	1.32	0.93	0.76	0.66	0.60	0.53	0.49	0.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.25 M (A.D), AT 6.00 HOURS, ON JUL 26, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.56 M (A.D)
LEFT BANK ELEVATION 13.72 M (A.D)
RIGHT BANK ELEVATION 10.15 M (A.D), DRAINAGE AREA 1156 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.50	3.00	8.00	17.90	65.80	97.30	35.50	18.30	12.50	9.80	8.00	6.25	
2	4.00	3.25	7.25	16.10	72.90	138.00	33.00	17.50	12.50	9.80	7.75	6.00	
3	5.00	3.00	21.50	13.70	63.00	141.20	30.50	16.80	12.20	9.80	7.75	6.00	
4	4.25	3.00	19.90	12.20	53.00	254.70	29.60	16.45	11.90	9.50	7.75	6.00	
5	3.75	4.50	22.40	12.20	44.10	207.20	28.25	16.45	11.90	9.80	7.75	6.00	
6	3.50	4.50	16.45	11.60	154.40	124.00	26.45	16.45	11.60	9.80	7.75	6.00	
7	3.75	4.00	11.60	10.40	76.90	99.10	26.45	16.10	11.60	9.80	7.50	6.00	
8	4.50	3.75	8.00	9.80	56.25	89.30	27.35	16.10	11.30	9.50	7.50	5.75	
9	4.00	3.75	7.25	9.20	51.05	78.50	26.90	16.45	11.30	9.20	7.50	7.00	
10	3.50	6.00	7.50	8.90	46.50	93.70	27.80	15.75	11.30	9.20	7.50	6.50	
11	3.25	5.25	7.75	8.30	40.50	122.00	26.90	15.40	11.00	9.20	7.25	6.75	
12	3.00	5.50	13.40	8.30	35.50	101.80	30.05	15.05	11.30	9.20	7.25	6.50	
13	2.90	7.50	17.15	8.00	32.50	77.70	26.45	15.05	20.30	8.90	7.25	6.00	
14	2.80	4.50	16.10	8.90	29.60	71.30	26.00	14.70	14.70	8.90	7.25	5.75	
15	2.90	4.00	20.70	9.50	29.60	85.05	25.55	14.35	12.20	8.90	7.00	5.75	
16	3.50	3.25	24.65	10.70	30.05	51.70	32.50	14.00	11.60	8.90	7.00	5.75	
17	4.75	3.75	28.70	9.80	30.50	69.70	25.10	14.00	11.30	8.60	6.75	5.50	
18	4.25	4.00	29.15	10.40	31.50	60.90	23.30	14.00	11.00	8.60	6.75	5.50	
19	4.00	3.00	19.50	31.50	45.90	53.00	25.55	14.00	11.00	8.60	6.75	5.50	
20	5.50	2.90	16.10	145.60	42.90	46.50	29.15	14.00	11.00	8.30	6.75	5.25	
21	11.90	3.75	14.00	79.30	41.70	47.15	38.00	14.00	10.70	8.30	6.75	5.25	
22	8.00	3.50	13.70	68.10	47.80	49.75	37.00	13.70	10.40	8.30	6.75	5.25	
23	8.00	4.00	15.75	63.70	45.90	43.50	33.00	13.70	10.40	8.30	6.75	5.25	
24	5.00	6.00	21.50	177.50	53.65	46.50	25.10	14.35	10.40	8.30	6.50	5.25	
25	4.00	4.75	22.85	100.90	126.00	47.80	22.85	14.35	10.10	8.30	6.50	5.25	
26	3.25	4.25	49.75	286.00	86.75	50.40	21.95	14.00	10.10	8.30	6.50	5.25	
27	4.00	4.75	48.45	155.50	66.50	41.10	20.70	13.40	10.10	8.30	6.25	5.75	
28	4.75	9.20	34.50	119.00	53.65	40.00	19.90	13.10	10.10	8.30	6.25	5.50	
29	4.75	6.25	23.75	103.60	45.30	37.00	19.10	13.10	9.80	8.30		5.50	
30	4.75	6.25	18.30	68.90	50.40	36.50	18.70	12.80	9.80	8.00		5.25	
31		9.50		72.10	51.70		19.10		9.80	8.00		5.25	
TOTAL	135.00	144.60	585.60	1667.60	1701.80	2502.35	837.75	447.40	355.20	275.00	199.00	178.50	9029.79 CMSDAY
MEAN	4.50	4.66	19.52	53.79	54.90	83.41	27.02	14.91	11.46	8.87	7.11	5.76	24.74 CMS
MAX	11.90	9.50	49.75	286.00	154.40	254.70	38.00	18.30	20.30	9.80	8.00	7.00	286.00 CMS
MIN	2.80	2.90	7.25	8.00	29.60	36.50	18.70	12.80	9.80	8.00	6.25	5.25	2.80 CMS
RUNOFF	11.664	12.493	50.596	144.081	147.035	216.203	72.382	38.655	30.689	23.760	17.194	15.422	780.174 MCM

MOMENTARY PEAK 362.25 CMS, AT 4.25 M (A.D), AT 6.00 HOURS, ON JUL 26, 1980

RUNOFF YIELD 21.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 313.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

KHWAE NOI AT BAN YANG, PHITSANULOK (N.22)

LOCATION — LAT. 17°-01'-57" N., LONG. 100°-22'-23" E., ON LEFT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM DISTRICT FORESTRY OFFICE, AMPHOE WAT BOT, PHITSANULOK.

DRAINAGE AREA — 4,841 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +43.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 15 METERS FROM AUTOMATIC GAGE BUILDING.

ELEVATION — +52.509 M.(M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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 - 1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1963 - 1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

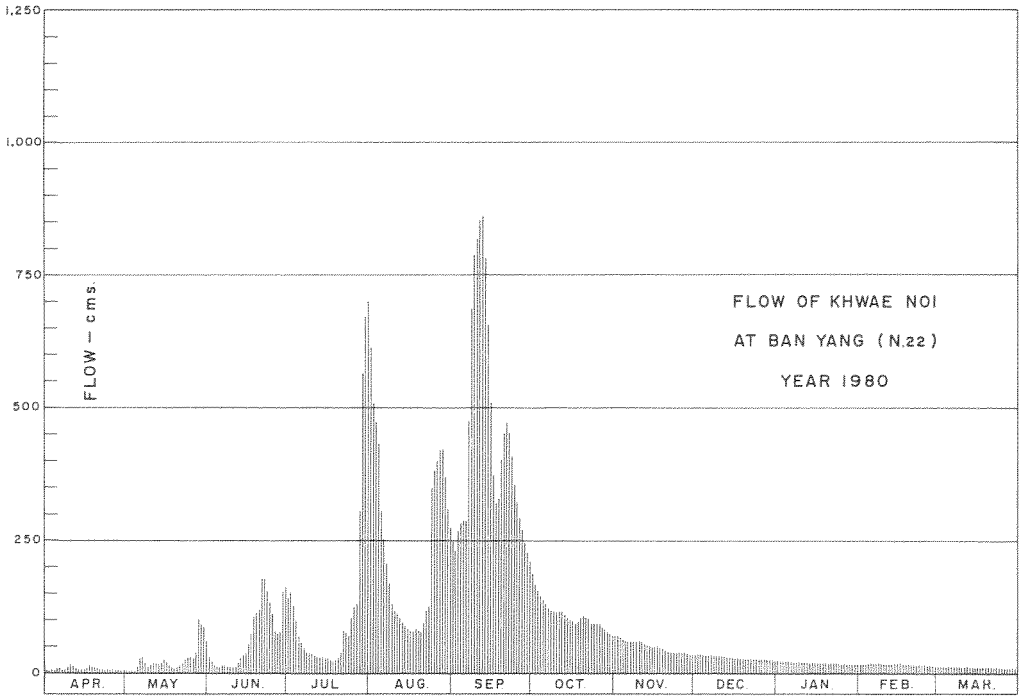
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +51.00 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1,322 DISCHARGE MEASUREMENTS MADE DURING 1967-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	43.78	43.84	44.70	46.71	51.05	48.17	47.42	45.54	44.79	44.47	44.35	44.15	
2	43.79	43.84	44.42	46.90	50.44	48.00	47.13	45.52	44.78	44.47	44.35	44.14	
3	43.90	43.79	44.26	46.44	50.14	48.40	46.94	45.47	44.76	44.47	44.34	44.14	
4	43.81	43.80	44.15	45.91	49.85	48.55	46.78	45.36	44.76	44.47	44.33	44.14	
5	43.87	44.16	44.09	45.42	48.87	48.57	46.65	45.37	44.76	44.46	44.32	44.14	
6	43.92	44.64	44.22	45.25	48.16	48.41	46.53	45.34	44.74	44.45	44.31	44.14	
7	43.85	44.64	44.20	45.10	47.59	50.27	46.43	45.34	44.73	44.45	44.32	44.14	
8	43.88	44.38	44.12	44.90	47.04	51.43	46.37	45.33	44.72	44.44	44.33	44.14	
9	44.11	44.16	44.06	44.85	46.62	51.65	46.36	45.30	44.69	44.44	44.32	44.13	
10	44.31	44.17	44.07	44.81	46.36	51.74	46.33	45.31	44.65	44.43	44.32	44.13	
11	44.17	44.36	44.17	44.76	46.21	51.89	46.33	45.33	44.65	44.43	44.32	44.14	
12	44.05	44.35	44.22	44.66	46.06	51.91	46.31	45.26	44.64	44.43	44.32	44.16	
13	43.93	44.32	44.59	44.60	45.94	51.68	46.21	45.20	44.62	44.42	44.32	44.16	
14	43.90	44.29	44.70	44.62	45.85	51.18	46.14	45.17	44.61	44.40	44.32	44.17	
15	43.84	44.48	44.76	44.56	45.77	50.31	46.05	45.15	44.61	44.40	44.31	44.17	
16	43.92	44.41	45.19	44.55	45.70	49.41	45.98	45.13	44.60	44.41	44.31	44.16	
17	44.24	44.15	45.51	44.51	45.71	48.89	45.95	45.11	44.60	44.41	44.30	44.14	
18	44.09	44.01	46.12	44.46	45.80	48.97	45.96	45.09	44.59	44.39	44.28	44.13	
19	43.92	44.01	46.26	44.50	45.78	49.58	46.12	45.07	44.58	44.39	44.29	44.17	
20	43.89	44.01	46.36	44.56	45.65	49.95	46.21	44.99	44.57	44.39	44.30	44.10	
21	43.82	44.16	47.29	44.91	45.89	50.08	46.13	44.92	44.56	44.37	44.30	44.09	
22	43.80	44.27	47.22	45.74	46.32	49.98	46.08	44.89	44.55	44.35	44.28	44.09	
23	43.77	44.53	46.87	45.69	46.49	49.65	45.95	44.88	44.54	44.35	44.28	44.07	
24	43.73	44.64	46.56	45.49	47.94	49.29	45.85	44.86	44.53	44.35	44.23	44.06	
25	43.72	44.63	46.22	46.30	49.41	48.89	45.92	44.86	44.53	44.35	44.17	44.05	
26	43.71	44.55	45.75	47.18	49.61	48.61	45.92	44.86	44.53	44.36	44.18	44.05	
27	43.71	44.90	45.58	47.31	49.74	48.39	45.86	44.85	44.51	44.36	44.18	44.05	
28	43.75	46.05	45.67	49.07	49.74	48.11	45.74	44.83	44.50	44.35	44.17	44.05	
29	43.74	45.91	46.09	50.60	49.45	47.91	45.64	44.82	44.50	44.35		44.05	
30	43.74	45.91	46.33	51.20	48.94	47.69	45.58	44.81	44.49	44.35		44.04	
31		45.32		51.31	48.45		45.54		44.47	44.34		44.04	
MEAN	43.89	44.47	45.26	46.03	47.63	49.59	46.21	45.13	44.62	44.40	44.29	44.11	
MAX	44.31	46.05	47.29	51.31	51.05	51.91	47.42	45.54	44.79	44.47	44.35	44.17	51.91
MIN	43.71	43.79	44.06	44.46	45.65	47.69	45.54	44.81	44.47	44.34	44.17	44.04	43.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 51.92 M (MSL), AT 24.00 HOURS, ON SEP 11, 1980
ZERO GAGE AT BOTTOM ELEVATION 43.00 M (MSL), RIVER BED 43.42 M (MSL)
LEFT BANK ELEVATION 52.15 M (MSL)
RIGHT BANK ELEVATION 51.00 M (MSL), DRAINAGE AREA 4841 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.1	6.3	34.0	141.1	639.5	253.3	190.6	72.0	37.6	24.9	20.7	14.0	
2	5.3	6.3	23.2	153.5	521.4	238.0	169.1	71.0	37.2	24.9	20.7	13.7	
3	7.5	5.3	17.6	124.4	476.0	274.0	156.1	68.5	36.4	24.9	20.4	13.7	
4	5.7	5.5	14.0	92.6	435.5	287.5	145.7	63.0	36.4	24.9	20.0	13.7	
5	6.9	14.3	12.2	66.0	319.7	289.3	137.2	63.5	36.4	24.6	19.7	13.7	
6	8.0	31.6	16.2	57.5	252.4	274.9	129.8	62.0	35.6	24.2	19.3	13.7	
7	6.5	31.6	15.5	50.0	204.2	495.5	123.8	62.0	35.2	24.2	19.7	13.7	
8	7.1	21.8	13.1	42.0	162.8	730.5	120.2	61.5	34.8	23.9	20.0	13.7	
9	12.8	14.3	11.5	40.0	135.3	788.5	119.6	60.0	33.6	23.9	19.7	13.4	
10	19.3	14.6	11.8	38.4	119.6	814.6	117.8	60.5	32.0	23.5	19.7	13.4	
11	14.6	21.1	14.6	36.4	110.6	858.1	117.8	61.5	32.0	23.5	19.7	13.7	
12	11.2	20.7	16.2	32.4	101.6	863.9	116.6	58.0	31.6	23.5	19.7	14.3	
13	8.2	19.7	29.6	30.0	94.4	797.2	110.6	55.0	30.8	23.2	19.7	14.3	
14	7.5	18.6	34.0	30.8	89.0	669.4	106.4	53.5	30.4	22.5	19.7	14.6	
15	6.3	25.3	36.4	28.4	84.4	501.5	101.0	52.5	30.4	22.5	19.3	14.6	
16	8.0	22.8	54.5	28.0	80.5	380.2	96.8	51.5	30.0	22.8	19.3	14.3	
17	16.9	14.0	70.5	26.4	81.1	321.9	95.0	50.5	30.0	22.8	19.0	13.7	
18	12.2	10.2	105.2	24.6	86.0	330.7	95.6	49.6	29.6	22.2	18.3	13.4	
19	8.0	10.2	113.6	26.0	84.9	400.6	105.2	48.8	29.2	22.2	18.6	14.6	
20	7.3	10.2	119.6	28.4	77.7	449.0	110.6	45.6	28.8	22.2	19.0	12.5	
21	5.9	14.3	180.3	42.4	91.4	467.2	105.8	42.8	28.4	21.4	19.0	12.2	
22	5.5	17.9	175.4	82.7	117.2	453.2	102.8	41.6	28.0	20.7	18.3	12.2	
23	4.9	27.2	151.5	79.9	127.4	409.5	95.0	41.2	27.6	20.7	18.3	11.8	
24	4.1	31.6	131.6	69.5	232.6	365.9	89.0	40.4	27.2	20.7	16.5	11.5	
25	3.9	31.2	111.2	116.0	380.2	321.9	93.2	40.4	27.2	20.7	14.6	11.2	
26	3.7	28.0	83.3	172.6	404.3	293.0	93.2	40.4	27.2	21.1	14.9	11.2	
27	3.7	42.0	74.0	181.8	421.2	273.1	89.6	40.0	26.4	21.1	14.9	11.2	
28	4.5	101.0	78.9	341.7	421.2	247.9	82.7	39.2	26.0	20.7	14.6	11.2	
29	4.3	92.6	103.4	586.0	385.0	229.9	77.2	38.8	26.0	20.7		11.2	
30	4.3	92.6	117.8	674.0	327.4	212.2	74.0	38.4	25.6	20.7		11.0	
31		61.0		700.5	278.5		72.0		24.9	20.4		11.0	
TOTAL	229.2	863.8	1970.7	4144.0	7343.0	13292.4	3440.0	1573.7	952.5	700.2	523.3	402.4	35435.1 CMSDAY
MEAN	7.6	27.9	65.7	133.7	236.9	443.1	111.0	52.5	30.7	22.6	18.7	13.0	97.1 CMS
MAX	19.3	101.0	180.3	700.5	639.5	863.9	190.6	72.0	37.6	24.9	20.7	14.6	863.9 CMS
MIN	3.7	5.3	11.5	24.6	77.7	212.2	72.0	38.4	24.9	20.4	14.6	11.0	3.7 CMS
RUNOFF	19.80	74.63	170.27	358.04	634.43	1148.46	297.22	135.97	82.30	60.50	45.21	34.77	3061.60 MCM

MOMENTARY PEAK 866.80 CMS, AT 51.92 M (MSL), AT 24.00 HOURS, ON SEP 11, 1980
RUNOFF YIELD 20.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 179.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

KHLONG KHEK AT BAN WANG NOK AEN, PHITSANULOK (N.24)

LOCATION — LAT. 16°-50'-35" N., LONG. 100°-31'-20" E., ON RIGHT BANK ABOUT 2 KILOMETERS DOWNSTREAM FROM SAKUNOTHAYAN FALL, AMPHOE WANG THONG, PHITSANULOK.

DRAINAGE AREA — 1,861 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +12.845 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1974, 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1974, 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

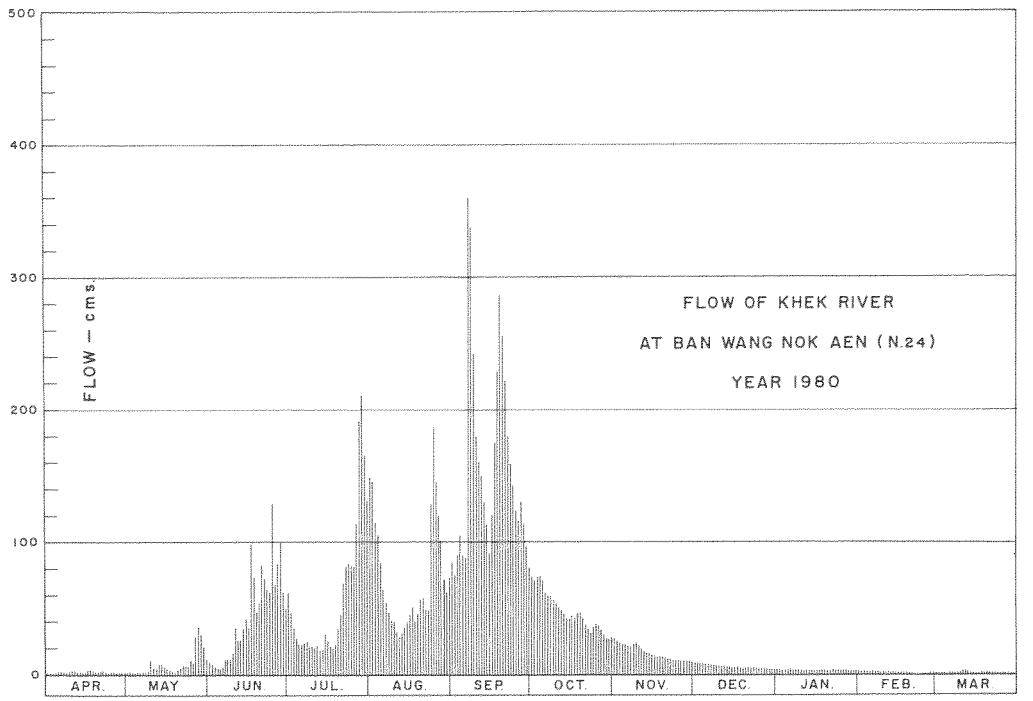
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 90 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.55	1.46	3.73	6.13	4.43	4.18	2.33	1.49	1.04	0.84	0.77	
2	0.64	0.54	1.33	3.17	6.07	4.16	4.08	2.29	1.43	1.03	0.85	0.75	
3	0.67	0.54	1.22	2.71	5.26	4.58	3.99	2.22	1.42	1.02	0.84	0.74	
4	0.68	0.54	1.22	2.39	5.14	4.98	4.17	2.17	1.40	1.01	0.84	0.73	
5	0.78	0.54	1.12	2.18	4.52	4.61	4.06	2.13	1.39	1.01	0.83	0.73	
6	0.87	0.53	1.16	2.16	3.80	4.54	3.72	2.11	1.37	1.00	0.83	0.73	
7	0.83	0.53	1.54	2.24	3.58	9.15	3.62	2.10	1.34	0.98	0.82	0.73	
8	0.82	0.63	1.64	2.30	3.25	9.10	3.68	2.22	1.32	0.98	0.81	0.73	
9	0.86	0.70	1.59	2.12	3.02	7.48	3.62	2.23	1.32	0.98	0.81	0.73	
10	0.91	1.52	1.52	2.08	2.85	6.87	3.42	2.12	1.30	0.98	0.81	0.79	
11	0.92	1.05	2.77	2.05	2.72	6.41	3.38	1.96	1.30	0.97	0.81	0.86	
12	0.82	0.91	2.36	2.13	2.51	6.27	3.28	1.87	1.29	0.96	0.81	0.86	
13	0.74	1.27	2.31	1.92	2.59	5.58	3.18	1.88	1.28	0.95	0.80	0.82	
14	0.70	1.30	2.76	1.91	2.79	4.89	3.03	1.82	1.26	0.94	0.79	0.79	
15	0.68	1.22	3.03	2.52	2.89	4.63	2.92	1.79	1.26	0.93	0.77	0.75	
16	0.71	1.07	2.72	2.35	3.07	5.21	3.10	1.76	1.25	0.93	0.78	0.75	
17	1.09	0.97	4.86	2.11	3.35	6.89	3.02	1.72	1.24	0.92	0.78	0.74	
18	0.90	0.89	4.09	2.01	2.92	7.59	3.02	1.70	1.22	0.91	0.77	0.72	
19	0.74	0.84	3.10	2.06	2.97	8.43	3.15	1.68	1.22	0.90	0.76	0.72	
20	0.67	0.97	3.46	2.72	3.58	8.06	3.14	1.65	1.20	0.90	0.76	0.71	
21	0.64	1.14	4.34	3.03	3.60	7.43	2.97	1.61	1.19	0.89	0.76	0.71	
22	0.62	1.25	4.15	4.05	3.33	6.70	2.77	1.59	1.18	0.89	0.75	0.71	
23	0.60	1.24	3.84	4.37	3.23	6.34	2.65	1.58	1.16	0.88	0.76	0.71	
24	0.59	1.23	3.75	4.44	4.76	5.90	2.61	1.56	1.13	0.88	0.76	0.70	
25	0.58	1.58	5.63	4.40	6.90	5.54	2.75	1.54	1.10	0.88	0.75	0.70	
26	0.57	1.39	3.92	4.31	6.00	5.31	2.80	1.54	1.09	0.87	0.74	0.69	
27	0.56	2.77	4.54	5.02	5.16	5.62	2.67	1.53	1.08	0.87	0.74	0.69	
28	0.56	2.81	4.89	6.87	4.59	5.35	2.51	1.51	1.07	0.86	0.81	0.67	
29	0.55	2.30	3.81	7.33	3.97	4.76	2.41	1.47	1.06	0.86		0.66	
30	0.55	1.94	3.24	6.77	3.65	4.39	2.36	1.46	1.05	0.86		0.64	
31		1.62		5.67	4.06		2.39		1.05	0.85		0.69	
MEAN	0.72	1.17	2.91	3.33	3.94	6.04	3.18	1.84	1.24	0.93	0.79	0.73	
MAX	1.09	2.81	5.63	7.33	6.90	9.15	4.18	2.33	1.49	1.04	0.85	0.86	9.15
MIN	0.55	0.53	1.12	1.91	2.51	4.16	2.36	1.46	1.05	0.85	0.74	0.64	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.68 M (A.D.), AT 19.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.25 M (A.D.)
LEFT BANK ELEVATION 13.60 M (A.D.)
RIGHT BANK ELEVATION 15.59 M (A.D.), DRAINAGE AREA 1861 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.37	9.20	61.90	149.20	84.05	75.40	26.60	9.80	4.40	2.40	1.77	
2	0.80	0.35	7.30	46.25	146.80	74.80	72.40	25.80	8.60	4.30	2.50	1.63	
3	1.02	0.35	6.20	34.75	114.40	89.30	69.70	24.40	8.40	4.20	2.40	1.55	
4	1.10	0.35	6.20	27.80	109.60	103.30	75.10	23.40	8.00	4.10	2.40	1.47	
5	1.85	0.35	5.20	23.60	87.20	90.35	71.80	22.60	7.90	4.10	2.30	1.47	
6	2.70	0.33	5.60	23.20	64.00	87.90	61.60	22.20	7.70	4.00	2.30	1.47	
7	2.30	0.33	10.80	24.80	57.40	358.25	58.60	22.00	7.40	3.80	2.20	1.47	
8	2.20	0.73	12.80	26.00	48.25	352.50	60.40	24.40	7.20	3.80	2.10	1.47	
9	2.60	1.25	11.80	22.40	42.50	218.80	58.60	24.60	7.20	3.80	2.10	1.47	
10	3.10	10.40	10.40	21.60	38.25	185.50	52.60	22.40	7.00	3.80	2.10	1.92	
11	3.20	4.50	36.25	21.00	35.00	162.50	51.50	19.20	7.00	3.70	2.10	2.60	
12	2.20	3.10	27.20	22.60	30.20	155.50	49.00	17.40	6.90	3.60	2.10	2.60	
13	1.55	6.70	26.20	18.40	31.80	127.20	46.50	17.60	6.80	3.50	2.00	2.20	
14	1.25	7.00	36.00	18.20	36.75	100.15	42.75	16.40	6.60	3.40	1.92	1.92	
15	1.10	6.20	42.75	30.40	39.25	91.05	40.00	15.80	6.60	3.30	1.77	1.63	
16	1.32	4.70	35.00	27.00	43.75	112.40	44.50	15.20	6.50	3.30	1.85	1.63	
17	4.90	3.70	99.10	22.20	50.75	186.50	42.50	14.40	6.40	3.20	1.85	1.55	
18	3.00	2.90	72.70	20.20	40.00	225.40	42.50	14.00	6.20	3.10	1.77	1.40	
19	1.55	2.40	44.50	21.20	41.25	284.95	45.75	13.60	6.20	3.00	1.70	1.40	
20	1.02	3.70	53.80	35.00	57.40	256.20	45.50	13.00	6.00	3.00	1.70	1.32	
21	0.80	5.40	80.90	42.75	58.00	215.80	41.25	12.20	5.90	2.90	1.70	1.32	
22	0.65	6.50	74.50	71.50	50.25	177.00	36.25	11.80	5.80	2.90	1.63	1.32	
23	0.50	6.40	65.20	81.95	47.75	159.00	33.25	11.60	5.60	2.80	1.70	1.32	
24	0.47	6.30	62.50	84.40	95.60	140.00	32.25	11.20	5.30	2.80	1.70	1.25	
25	0.45	11.60	129.20	83.00	187.00	125.60	35.75	10.80	5.00	2.80	1.63	1.25	
26	0.42	7.90	67.60	79.85	144.00	116.40	37.00	10.80	4.90	2.70	1.55	1.17	
27	0.40	36.25	87.90	104.80	110.40	128.80	33.75	10.60	4.80	2.70	1.55	1.17	
28	0.40	37.25	100.15	185.50	89.65	118.00	30.20	10.20	4.70	2.60	2.10	1.02	
29	0.37	26.00	64.30	209.80	69.10	95.60	28.20	9.40	4.60	2.60		0.95	
30	0.37	18.80	48.00	180.50	59.50	82.65	27.20	9.20	4.50	2.60		0.80	
31		12.40		130.80	71.80		27.80		4.50	2.50		1.17	
TOTAL	44.32	234.51	1339.25	1803.35	2246.80	4705.45	1469.60	502.80	200.00	103.30	55.12	46.68	12751.16 CMSDAY
MEAN	1.48	7.56	44.64	58.17	72.48	156.85	47.41	16.76	6.45	3.33	1.97	1.51	34.93 CMS
MAX	4.90	37.25	129.20	209.80	187.00	358.25	75.40	26.60	9.80	4.40	2.50	2.60	358.25 CMS
MIN	0.37	0.33	5.20	18.20	30.20	74.80	27.20	9.20	4.50	2.50	1.55	0.80	0.33 CMS
RUNOFF	3.829	20.262	115.711	155.809	194.123	406.550	126.973	43.442	17.280	8.925	4.762	4.033	1101.700 MCM

MOMENTARY PEAK 680.40 CMS, AT 10.68 M (A.D), AT 19.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 18.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 365.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT TRON, UTTARADIT (N.26)

LOCATION — LAT. 17°-29'-00" N., LONG. 100°-06'-58" E., ON RIGHT BANK ABOUT 500 METERS UPSTREAM FROM TRON RAILWAY STATION, OPPOSITE TO AMPHOE TRON OFFICE, UTTARADIT.

DRAINAGE AREA — 17,350 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +49.30 M. (M.S.L)

BENCH MARK — B.M.-H.D. NO.1

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +58.880 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 227 DISCHARGE MEASUREMENTS MADE DURING 1969-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

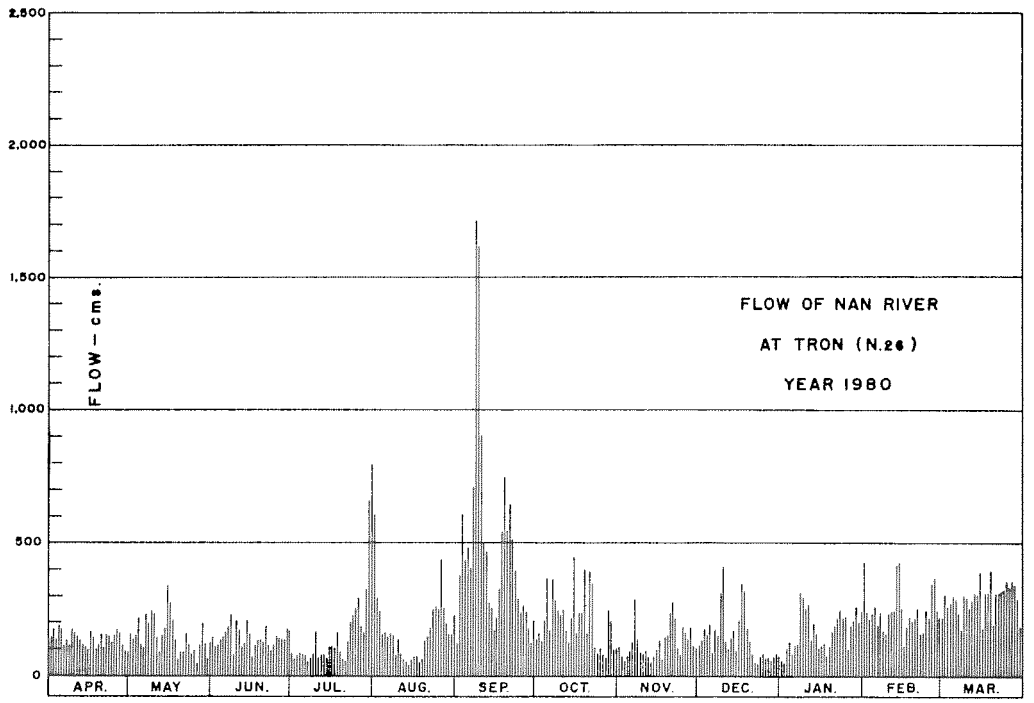
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.14	51.15	51.14	50.30	53.00	50.85	51.07	50.90	50.86	50.29	52.76	52.13	
2	51.39	51.00	50.74	50.44	52.03	52.31	51.25	50.48	51.04	50.20	51.67	51.42	
3	51.07	51.01	51.03	50.48	51.77	53.63	50.99	50.29	51.37	50.80	51.54	52.10	
4	51.35	51.65	51.18	50.59	51.10	53.27	51.66	50.54	51.24	51.01	51.70	51.87	
5	51.26	50.69	51.24	50.48	51.27	53.56	52.51	50.67	51.50	50.53	51.88	52.02	
6	50.86	50.83	51.27	50.47	51.14	53.16	51.20	50.84	50.47	50.86	51.37	52.09	
7	51.04	51.67	51.41	50.19	51.35	53.87	52.42	50.88	51.38	50.87	51.77	52.04	
8	50.73	51.51	51.66	50.42	51.21	57.35	51.65	50.96	51.16	52.22	51.31	51.69	
9	51.33	51.83	50.47	50.46	50.45	56.76	51.81	50.62	52.35	52.11	50.93	51.31	
10	51.27	51.72	51.59	51.32	51.06	54.82	51.67	50.53	52.69	51.82	51.75	52.12	
11	51.14	51.38	51.38	50.44	50.42	53.10	51.83	50.67	50.66	51.95	51.74	51.78	
12	50.99	50.57	50.81	50.48	50.36	52.96	51.32	50.58	50.67	50.90	51.76	52.06	
13	50.93	51.26	50.77	50.45	50.20	51.51	50.67	50.29	51.22	51.50	52.75	52.19	
14	50.93	51.34	51.57	50.25	50.04	51.87	51.72	50.49	51.37	50.49	52.76	52.16	
15	50.75	52.31	51.15	50.62	50.47	51.20	52.88	50.55	50.64	51.38	52.15	52.59	
16	51.27	52.05	50.39	50.87	50.45	51.86	51.22	50.75	51.61	50.69	50.62	51.39	
17	51.20	51.64	50.86	50.73	50.52	52.48	51.74	50.25	52.36	50.81	51.42	52.06	
18	50.74	50.89	51.07	51.26	50.18	53.93	51.73	51.11	52.24	51.02	51.67	52.19	
19	51.02	50.30	51.03	50.61	50.39	54.26	52.63	51.22	51.28	50.47	51.56	51.96	
20	51.22	50.60	50.92	50.36	51.01	53.39	51.23	51.80	51.03	51.25	51.60	52.05	
21	50.80	50.63	51.42	50.23	51.12	53.84	52.60	51.97	50.54	51.44	51.86	52.17	
22	51.22	51.24	50.92	50.89	51.38	52.67	52.30	51.50	50.24	51.64	51.18	52.16	
23	51.15	50.81	50.58	51.62	51.89	52.61	50.71	50.74	50.10	51.83	51.22	51.36	
24	51.00	50.55	50.84	51.68	51.91	52.03	50.52	50.46	50.50	51.61	51.81	52.24	
25	51.17	50.66	51.16	51.99	51.78	51.74	50.78	51.43	50.59	51.68	51.61	52.42	
26	51.34	50.14	51.04	52.12	52.81	51.93	50.54	51.26	50.34	50.65	52.36	52.27	
27	51.26	51.16	51.07	51.33	51.78	51.72	50.42	51.06	50.44	51.42	52.49	52.44	
28	50.90	51.53	50.98	51.23	51.51	51.39	51.78	51.39	50.21	51.52	51.85	52.26	
29	50.65	50.89	51.34	52.34	51.20	50.92	51.47	50.84	50.48	51.94		52.20	
30	50.56	50.39	50.42	53.86	51.21	51.50	50.65	50.78	50.55	51.51		51.40	
31		50.96		54.45	51.68		50.73		50.51	51.61		51.43	
MEAN	51.06	51.11	51.05	51.06	51.18	52.85	51.47	50.86	51.02	51.23	51.75	51.99	
MAX	51.39	52.31	51.66	54.45	53.00	57.35	52.88	51.97	52.69	52.22	52.76	52.59	57.35
MIN	50.56	50.14	50.39	50.19	50.04	50.85	50.42	50.25	50.10	50.20	50.62	51.31	50.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 57.39 M (MSL), AT 10.00 HOURS, ON SEP 8, 1980

ZERO GAGE AT BOTTOM ELEVATION 49.30 M (MSL), RIVER BED 49.31 M (MSL)

LEFT BANK ELEVATION 60.20 M (MSL)

RIGHT BANK ELEVATION 58.88 M (MSL), DRAINAGE AREA 17350 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	153.6	155.0	153.6	64.0	476.0	119.0	144.4	124.0	120.0	63.0	428.0	307.4	
2	188.6	136.0	108.0	78.0	289.4	339.8	169.0	82.0	140.8	54.0	231.2	192.8	
3	144.4	137.2	139.6	82.0	247.2	610.6	134.8	63.0	185.8	114.0	210.4	302.0	
4	183.0	228.0	159.2	93.0	148.0	531.7	229.6	88.0	167.6	137.2	236.0	263.2	
5	170.4	103.0	167.6	82.0	171.8	595.2	378.0	101.0	204.0	87.0	264.8	287.6	
6	120.0	117.0	171.8	81.0	153.6	508.6	162.0	118.0	81.0	120.0	185.8	300.2	
7	140.8	231.2	191.4	53.2	183.0	663.4	360.0	122.0	187.2	121.0	247.2	291.2	
8	107.0	205.6	229.6	76.0	163.4	1712.5	228.0	131.2	156.4	323.6	177.4	234.4	
9	180.2	256.8	81.0	80.0	79.0	1506.0	253.6	96.0	347.0	303.8	127.6	177.4	
10	171.8	239.2	218.4	178.8	143.2	903.6	231.2	87.0	414.0	255.2	244.0	305.6	
11	153.6	187.2	187.2	78.0	76.0	496.0	256.8	101.0	100.0	276.0	242.4	248.8	
12	134.8	91.0	115.0	82.0	70.0	468.0	178.8	92.0	101.0	124.0	245.6	294.8	
13	127.6	170.4	111.0	79.0	54.0	205.6	101.0	63.0	164.8	204.0	426.0	318.2	
14	127.6	181.6	215.2	59.0	42.4	263.2	239.2	83.0	185.8	83.0	428.0	312.8	
15	109.0	339.8	155.0	96.0	81.0	162.0	452.0	89.0	98.0	187.2	311.0	394.0	
16	171.8	293.0	73.0	121.0	79.0	261.6	164.8	109.0	221.6	103.0	96.0	188.6	
17	162.0	226.4	120.0	107.0	86.0	372.0	242.4	59.0	348.8	115.0	192.8	294.8	
18	108.0	123.0	144.4	170.4	52.4	676.6	240.8	149.4	327.2	138.4	231.2	318.2	
19	138.4	64.0	139.6	95.0	73.0	755.0	402.0	164.8	173.2	81.0	213.6	277.6	
20	164.8	94.0	126.4	70.0	137.2	557.8	166.2	252.0	139.6	169.0	220.0	293.0	
21	114.0	97.0	192.8	57.0	150.8	656.8	396.0	279.2	88.0	195.6	261.6	314.6	
22	164.8	167.6	126.4	123.0	187.2	410.0	338.0	204.0	58.0	226.4	159.2	312.8	
23	155.0	115.0	92.0	223.2	266.4	398.0	105.0	108.0	46.0	256.8	164.8	184.4	
24	136.0	89.0	118.0	232.8	269.6	289.4	86.0	80.0	84.0	221.6	253.6	327.2	
25	157.8	100.0	156.4	282.4	248.8	242.4	112.0	194.2	93.0	232.8	221.6	360.0	
26	181.6	49.2	140.8	305.6	438.0	272.8	88.0	170.4	68.0	99.0	348.8	332.6	
27	170.4	156.4	144.4	180.2	248.8	239.2	76.0	143.2	78.0	192.8	374.0	364.0	
28	124.0	208.8	133.6	166.2	205.6	188.6	248.8	188.6	55.0	207.2	260.0	330.8	
29	99.0	123.0	181.6	345.2	162.0	126.4	199.8	118.0	82.0	274.4		320.0	
30	90.0	73.0	76.0	661.2	163.4	213.6	99.0	112.0	89.0	205.6		190.0	
31		131.2		803.0	232.8		107.0		85.0	253.6		194.2	
TOTAL	4350.0	4889.6	4369.0	5205.2	5379.0	14745.4	6590.2	3772.0	4689.8	5425.2	7002.6	8833.2	75251.1 CMSDAY
MEAN	145.0	157.7	145.6	167.9	173.5	491.5	212.6	125.7	151.3	175.0	250.1	284.9	206.2 CMS
MAX	188.6	339.8	229.6	803.0	476.0	1712.5	452.0	279.2	414.0	323.6	428.0	394.0	1712.5 CMS
MIN	90.0	49.2	73.0	53.2	42.4	119.0	76.0	59.0	46.0	54.0	96.0	177.4	42.4 CMS
RUNOFF	375.84	422.46	377.48	449.73	464.75	1274.00	569.39	325.90	405.20	468.74	605.02	763.19	6501.70 MCM

MOMENTARY PEAK 1726.50 CMS, AT 57.39 M (MSL), AT 10.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 11.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 99.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT PHROM PHIRAM, PHITSANULOK (N.27A)

LOCATION LAT. N., LONG. E., ON LEFT BANK ABOUT 200 METERS DOWNSTREAM FROM PHROM PHIRAM RAILWAY STATION, AMPHOE PROM PHIRAM, PHITSANULOK.

DRAINAGE AREA

TYPE OF GAGE STAFF GAGE.

ZERO GAGE AT BOTTOM AT +0.00 M.(A.D.)

BENCH MARK -

LOCATION -

ELEVATION -

GAGE READING FREQUENCY 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS 1980 TO DATE.

RATING OPERATION

PERIOD OF RATING 1980 TO DATE.

RATED BY FLOAT -

RATED BY CURRENT METER 1980 TO DATE.

STABILITY OF CHANNEL REGIMES STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS NO OVERBANK FLOW.

GENERAL DESCRIPTION RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

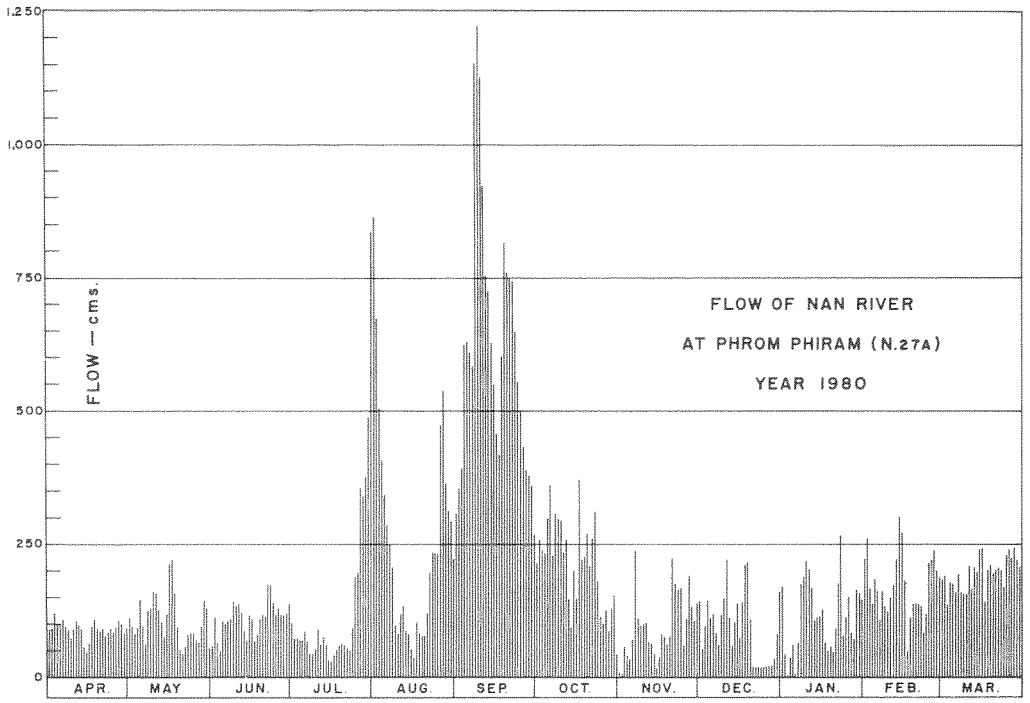
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.82	2.14	1.50	1.98	8.08	4.12	3.27	0.51	2.52	2.82	3.30	2.95	
2	1.92	1.97	2.17	1.68	6.82	4.50	3.70	0.50	1.37	1.25	3.73	3.03	
3	2.30	1.74	1.53	1.68	5.62	4.77	3.52	1.46	1.94	0.22	2.78	2.44	
4	1.99	1.88	1.32	1.65	5.05	6.46	3.43	1.18	2.54	1.15	2.45	2.88	
5	1.98	2.52	2.08	1.67	4.33	6.52	3.85	1.09	2.14	1.47	2.96	2.88	
6	2.11	1.92	2.02	1.83	3.89	6.37	4.54	1.64	2.23	1.54	2.73	2.70	
7	1.92	1.95	2.07	1.58	3.58	6.19	3.41	3.49	1.82	0.42	2.12	3.06	
8	1.86	2.32	2.14	1.24	3.08	9.62	4.12	2.04	1.50	2.85	2.71	2.70	
9	1.63	2.41	2.51	1.28	1.95	10.27	4.03	1.95	2.20	2.98	2.40	2.66	
10	1.93	2.73	2.41	1.38	1.80	9.89	4.02	2.02	3.03	3.29	2.29	2.67	
11	2.07	2.68	2.47	1.91	2.26	8.80	3.46	2.03	3.40	3.15	2.59	3.21	
12	1.97	2.30	2.28	1.51	2.43	7.37	3.70	1.56	2.15	2.81	2.82	2.76	
13	1.91	2.04	1.81	1.71	1.87	7.16	2.57	1.56	1.46	2.07	3.32	3.15	
14	1.47	1.73	1.61	1.51	1.78	6.49	1.84	1.25	2.04	2.15	4.07	3.10	
15	1.28	2.22	2.23	1.07	1.39	5.97	3.13	0.76	2.48	2.18	3.82	3.50	
16	1.53	3.23	2.10	1.05	1.15	5.29	2.50	1.16	1.65	2.34	2.93	3.53	
17	1.98	3.33	1.61	1.27	2.04	5.01	4.62	1.77	2.46	1.55	1.32	2.47	
18	2.01	2.63	1.73	1.40	1.82	6.31	3.34	1.70	3.22	1.33	2.18	3.09	
19	1.91	1.95	2.13	1.50	1.75	7.77	3.43	1.55	3.29	1.48	2.44	3.25	
20	1.80	1.34	2.24	1.54	1.75	7.72	3.78	1.73	2.11	1.22	2.47	3.06	
21	1.90	1.24	2.19	1.50	2.22	7.33	3.19	3.34	0.79	1.96	2.45	3.10	
22	1.70	1.44	2.89	1.40	2.98	7.31	3.79	2.91	0.79	2.81	2.39	3.18	
23	1.84	1.77	2.86	1.37	3.47	6.64	4.15	2.75	0.79	3.77	1.82	3.12	
24	1.89	1.81	2.41	1.90	3.45	6.00	2.94	2.78	0.77	1.73	2.23	2.71	
25	1.78	1.61	2.22	3.02	3.45	5.64	2.19	1.50	0.79	1.95	3.27	3.34	
26	1.88	1.65	2.39	3.10	5.39	5.11	2.01	1.83	0.80	2.63	3.31	3.53	
27	2.10	1.53	2.23	4.51	5.36	4.75	2.32	3.04	0.80	1.82	3.51	3.36	
28	2.02	1.96	2.22	4.38	4.80	4.69	1.83	2.41	0.80	1.64	3.12	3.52	
29	1.80	2.55	2.28	4.67	4.12	4.54	2.36	2.10	1.14	2.75		3.35	
30	1.90	2.29	2.46	5.73	4.03	3.79	2.66	2.46	1.56	2.70		3.21	
31		1.42		7.86	3.33		1.21		2.73	2.54		2.35	
MEAN	1.87	2.07	2.14	2.25	3.40	6.41	3.19	1.87	1.85	2.08	2.77	3.03	
MAX	2.30	3.33	2.89	7.86	8.08	10.27	4.62	3.49	3.40	3.77	4.07	3.53	10.27
MIN	1.28	1.24	1.32	1.05	1.15	3.79	1.21	0.50	0.77	0.22	1.32	2.35	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.27 M (A.D), AT 9.00 HOURS, ON SEP 9, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 19549 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	69.6	95.2	47.5	82.4	833.4	284.4	195.0	2.2	126.2	151.9	198.0	164.2	
2	77.6	81.6	97.6	59.6	645.9	331.5	238.0	2.0	39.3	32.8	241.0	171.8	
3	108.0	63.8	49.4	59.6	477.8	365.2	220.0	44.9	79.2	0.0	148.3	119.4	
4	83.2	74.4	36.6	57.5	397.9	598.2	211.0	29.0	127.9	27.5	120.2	157.6	
5	82.4	126.2	90.4	58.9	310.2	603.8	253.5	24.5	95.2	45.5	165.2	157.6	
6	92.8	77.6	85.6	70.4	257.9	582.8	336.5	56.8	102.4	50.1	144.0	141.5	
7	77.6	50.7	89.6	52.7	226.0	557.6	209.0	217.0	69.6	0.4	93.6	174.7	
8	72.8	109.6	95.2	32.2	176.6	1077.3	284.4	87.2	47.5	154.7	142.3	141.5	
9	56.1	116.8	125.3	34.4	80.0	1184.5	273.6	80.0	100.0	167.1	116.0	138.1	
10	78.4	144.0	116.8	39.9	68.0	1121.8	272.4	85.6	171.8	197.0	107.2	138.9	
11	89.6	139.8	122.0	76.8	104.8	946.0	214.0	86.4	208.0	183.2	132.1	189.0	
12	81.6	108.0	106.4	48.1	118.5	725.6	238.0	51.4	96.0	151.0	151.9	146.6	
13	76.8	87.2	68.8	61.7	73.6	695.2	130.4	51.4	44.9	89.5	200.0	183.2	
14	45.5	63.1	54.7	48.1	66.6	599.6	71.2	32.8	87.2	96.0	278.4	178.5	
15	34.4	101.6	102.4	23.5	40.4	526.8	181.3	9.6	122.8	98.4	250.2	218.0	
16	49.4	191.0	92.0	22.5	27.5	432.2	124.5	28.0	57.5	111.2	162.3	221.0	
17	82.4	201.0	54.7	33.9	87.2	395.3	346.5	65.9	121.1	50.7	36.6	122.0	
18	84.8	135.5	63.1	41.0	69.6	574.4	202.0	61.0	190.0	37.1	98.4	177.5	
19	76.8	80.0	94.4	47.5	64.5	785.5	211.0	50.7	197.0	46.2	119.4	193.0	
20	68.0	37.7	103.2	50.1	64.5	778.0	246.0	63.1	92.8	31.1	122.0	174.7	
21	76.0	32.2	99.2	47.5	101.6	719.8	187.0	202.0	10.6	80.8	120.2	178.5	
22	61.0	43.6	158.5	41.0	167.1	716.9	247.0	160.4	10.6	151.0	115.2	186.1	
23	71.2	65.9	155.7	39.3	215.0	620.6	288.0	145.7	10.6	245.0	69.6	180.4	
24	75.2	68.8	116.8	76.0	213.0	531.0	163.3	148.3	9.9	63.1	102.4	142.3	
25	66.6	68.8	101.6	170.9	213.0	480.6	99.2	47.5	10.6	80.0	195.0	202.0	
26	74.4	57.5	115.2	178.5	445.6	408.3	84.8	70.4	11.0	135.5	199.0	221.0	
27	92.0	49.4	102.4	332.7	511.4	362.7	109.6	172.8	11.0	69.6	219.0	204.0	
28	85.6	80.8	101.6	316.5	369.0	355.2	70.4	116.8	11.0	56.8	180.4	220.0	
29	68.0	128.7	106.4	352.7	284.4	336.5	112.8	92.0	27.0	145.7		203.0	
30	76.0	107.2	121.1	493.2	273.6	247.0	138.1	121.1	51.4	141.5		189.0	
31		42.3		799.3	201.0		30.5		144.0	127.9		112.0	
TOTAL	2233.8	2830.0	2874.2	3848.4	7185.6	17944.3	5989.0	2406.5	2484.1	3018.4	4227.9	5347.1	60389.2 CMSDAY
MEAN	74.5	91.3	95.8	124.1	231.8	598.1	193.2	80.2	80.1	97.4	151.0	172.5	165.4 CMS
MAX	108.0	201.0	158.5	799.3	833.4	1184.5	346.5	217.0	208.0	245.0	278.4	221.0	1184.5 CMS
MIN	34.4	32.2	36.6	22.5	27.5	247.0	30.5	2.0	9.9	0.0	36.6	112.0	0.0 CMS
RUNOFF	193.00	244.51	248.33	332.50	620.84	1550.39	517.45	207.92	214.63	260.79	365.29	461.99	5217.63 MCM

MOMENTARY PEAK 1184.55 CMS, AT 10.27 M (A.D). AT 9.00 HOURS, ON SEP 9, 1980

RUNOFF YIELD 8.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 60.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

KHLONG TRON AT BAN NAM LAI, UTTARADIT (N.28)

LOCATION — LAT. 17°-34'-10" N., LONG. 100°-27'-04" E., ON LEFT BANK AT BAN NAM LAI, AMPHOE NAM PAT, UTTARADIT.

DRAINAGE AREA — 478 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +6.039 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1970

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1970

STABILITY OF CHANNEL REGIMES — STABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 545 DISCHARGE MEASUREMENTS MADE DURING 1967-1970.

REMARKS — NO RECORDS DURING MAY 1-31, SEPT.7-18, 22-24, 1980. RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

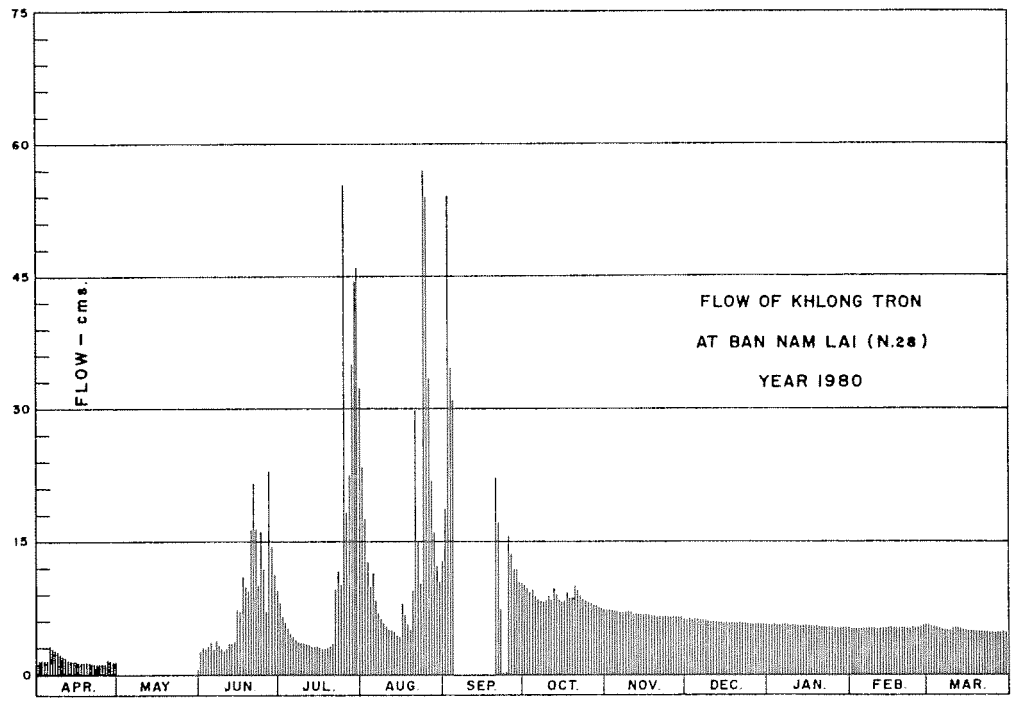
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.77	*******	0.99	1.47	2.17	2.10	1.59	1.41	1.32	1.26	1.23	1.26	
2	0.79	*******	0.98	1.36	1.93	3.20	1.57	1.40	1.32	1.26	1.23	1.25	
3	0.77	*******	0.96	1.27	1.73	2.55	1.55	1.39	1.32	1.26	1.23	1.24	
4	0.80	*******	1.06	1.19	1.60	2.57	1.57	1.38	1.31	1.26	1.23	1.23	
5	1.00	*******	1.03	1.14	1.48	2.29	1.53	1.38	1.31	1.26	1.23	1.22	
6	0.97	*******	0.98	1.11	1.41	2.09	1.48	1.38	1.31	1.26	1.23	1.22	
7	0.94	*******	1.07	1.09	1.34	*******	1.48	1.38	1.31	1.25	1.23	1.21	
8	0.92	*******	0.99	1.07	1.29	*******	1.47	1.40	1.30	1.25	1.23	1.21	
9	0.88	*******	0.96	1.05	1.25	*******	1.47	1.39	1.30	1.25	1.23	1.21	
10	0.86	*******	0.94	1.04	1.23	*******	1.52	1.38	1.30	1.25	1.23	1.23	
11	0.82	*******	0.98	1.03	1.21	*******	1.49	1.37	1.29	1.24	1.23	1.23	
12	0.78	*******	1.04	1.02	1.18	*******	1.58	1.37	1.29	1.24	1.23	1.22	
13	0.77	*******	1.06	1.00	1.16	*******	1.53	1.37	1.29	1.24	1.23	1.22	
14	0.76	*******	1.07	0.99	1.14	*******	1.49	1.36	1.29	1.24	1.23	1.21	
15	0.76	*******	1.40	0.99	1.13	*******	1.48	1.36	1.29	1.24	1.23	1.20	
16	0.75	*******	1.38	0.98	1.45	*******	1.47	1.36	1.29	1.24	1.23	1.20	
17	0.74	*******	1.67	0.97	1.35	*******	1.55	1.35	1.28	1.24	1.23	1.19	
18	0.73	*******	1.61	0.98	1.27	*******	1.49	1.35	1.28	1.24	1.23	1.19	
19	0.73	*******	1.53	0.99	1.21	2.41	1.50	1.35	1.28	1.24	1.23	1.19	
20	0.73	*******	1.88	1.01	1.52	2.32	1.59	1.34	1.28	1.24	1.23	1.19	
21	0.73	*******	2.22	1.05	2.53	1.97	1.54	1.34	1.27	1.24	1.23	1.19	
22	0.72	*******	2.05	1.58	1.95	*******	1.49	1.34	1.27	1.24	1.23	1.19	
23	0.72	*******	1.62	1.71	1.63	*******	1.49	1.34	1.27	1.23	1.23	1.18	
24	0.72	*******	1.95	1.61	3.26	*******	1.47	1.34	1.27	1.23	1.23	1.18	
25	0.72	*******	1.73	3.23	3.19	1.93	1.46	1.33	1.27	1.23	1.23	1.18	
26	0.71	*******	1.39	2.07	2.55	1.80	1.45	1.33	1.27	1.23	1.23	1.18	
27	0.80	*******	2.28	2.20	2.07	1.72	1.44	1.33	1.27	1.23	1.24	1.18	
28	0.78	*******	1.87	2.65	1.87	1.71	1.43	1.33	1.27	1.23	1.27	1.17	
29	0.77	*******	1.66	2.95	1.73	1.64	1.43	1.33	1.26	1.23		1.17	
30	0.76	*******	1.55	3.00	1.63	1.62	1.42	1.32	1.26	1.23		1.17	
31		*******		2.36	1.78		1.41		1.26	1.23		1.17	
MEAN	0.79	*******	1.40	1.49	1.69	*******	1.50	1.36	1.29	1.24	1.23	1.20	
MAX	1.00	*******	2.28	3.23	3.26	3.20	1.59	1.41	1.32	1.26	1.27	1.26	3.26
MIN	0.71	*******	0.94	0.97	1.13	*******	1.41	1.32	1.26	1.23	1.23	1.17	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT ____ M (A.D), AT ____ HOURS, ON ____, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.55 M (A.D)

LEFT BANK ELEVATION 7.90 M (A.D)

RIGHT BANK ELEVATION 9.29 M (A.D), DRAINAGE AREA 478 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.52	*******	3.12	8.21	20.34	18.80	9.86	7.43	6.34	5.70	5.40	5.70	
2	1.64	*******	3.04	6.82	15.47	54.00	9.58	7.30	6.34	5.70	5.40	5.60	
3	1.52	*******	2.88	5.80	11.98	30.40	9.30	7.18	6.34	5.70	5.40	5.50	
4	1.70	*******	3.74	5.00	10.00	31.00	9.58	7.06	6.22	5.70	5.40	5.40	
5	3.20	*******	3.47	4.50	8.34	23.25	9.02	7.06	6.22	5.70	5.40	5.30	
6	2.96	*******	3.04	4.20	7.43	18.60	8.34	7.06	6.22	5.70	5.40	5.30	
7	2.72	*******	3.83	4.01	6.58	*******	8.34	7.06	6.22	5.60	5.40	5.20	
8	2.56	*******	3.12	3.83	6.00	*******	8.21	7.30	6.10	5.60	5.40	5.20	
9	2.26	*******	2.88	3.65	5.60	*******	8.21	7.18	6.10	5.60	5.40	5.20	
10	2.12	*******	2.72	3.56	5.40	*******	8.88	7.06	6.10	5.60	5.40	5.40	
11	1.84	*******	3.04	3.47	5.20	*******	8.47	6.94	6.00	5.50	5.40	5.40	
12	1.58	*******	3.56	3.38	4.90	*******	9.72	6.94	6.00	5.50	5.40	5.30	
13	1.52	*******	3.74	3.20	4.70	*******	9.02	6.94	6.00	5.50	5.40	5.30	
14	1.46	*******	3.83	3.12	4.50	*******	8.47	6.82	6.00	5.50	5.40	5.20	
15	1.46	*******	7.30	3.12	4.40	*******	8.34	6.82	6.00	5.50	5.40	5.10	
16	1.40	*******	7.06	3.04	7.95	*******	8.21	6.82	6.00	5.50	5.40	5.10	
17	1.34	*******	11.05	2.96	6.70	*******	9.30	6.70	5.90	5.50	5.40	5.00	
18	1.28	*******	10.15	3.04	5.80	*******	8.47	6.70	5.90	5.50	5.40	5.00	
19	1.28	*******	9.02	3.12	5.20	26.38	8.60	6.70	5.90	5.50	5.40	5.00	
20	1.28	*******	14.54	3.29	8.88	24.02	9.86	6.58	5.90	5.50	5.40	5.00	
21	1.28	*******	21.50	3.65	29.80	16.23	9.16	6.58	5.80	5.50	5.40	5.00	
22	1.22	*******	17.80	9.72	15.85	*******	8.47	6.58	5.80	5.50	5.40	5.00	
23	1.22	*******	10.30	11.66	10.45	*******	8.47	6.58	5.80	5.40	5.40	4.90	
24	1.22	*******	15.85	10.15	56.70	*******	8.21	6.58	5.80	5.40	5.40	4.90	
25	1.22	*******	11.98	55.35	53.60	15.47	8.08	6.46	5.80	5.40	5.40	4.90	
26	1.16	*******	7.18	18.20	30.40	13.10	7.95	6.46	5.80	5.40	5.40	4.90	
27	1.70	*******	23.00	21.00	18.20	11.82	7.82	6.46	5.80	5.40	5.50	4.90	
28	1.58	*******	14.36	33.45	14.36	11.66	7.69	6.46	5.80	5.40	5.80	4.80	
29	1.52	*******	10.90	44.00	11.98	10.60	7.69	6.46	5.70	5.40		4.80	
30	1.46	*******	9.30	46.00	10.45	10.30	7.56	6.34	5.70	5.40		4.80	
31		*******		25.06	12.78		7.43		5.70	5.40		4.80	
TOTAL	50.22	*******	247.30	359.56	419.94	*******	266.31	204.61	185.30	171.20	151.70	158.90	******** CMSDAY
MEAN	1.67	*******	8.24	11.60	13.55	*******	8.59	6.82	5.98	5.52	5.42	5.13	******* CMS
MAX	3.20	*******	23.00	55.35	56.70	54.00	9.86	7.43	6.34	5.70	5.80	5.70	56.70 CMS
MIN	1.16	*******	2.72	2.96	4.40	*******	7.43	6.34	5.70	5.40	5.40	4.80	******* CMS
RUNOFF	4.339	*******	21.367	31.066	36.283	*******	23.009	17.678	16.010	14.792	13.107	13.729	******** MCM

MOMENTARY PEAK CMS, AT M (A.D), AT HOURS, ON , 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

KHLONG TRON AT BAN NA KLAM, UTTARADIT (N.28B)

LOCATION — LAT. 17°-35'-00" N., LONG. 100°-29'-30" E., ON LEFT BANK AT BAN NA KLAM BRIDGE ABOUT 7 KILOMETERS UPSTREAM FROM STATION N.28, AMPHOE NAM PAT, UTTARADIT.

DRAINAGE AREA — 368 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +23.769 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 98 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — DISCHARGE RECORDS POOR FOR GAGE HEIGHT OVER +3.50 M.(A.D.).

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

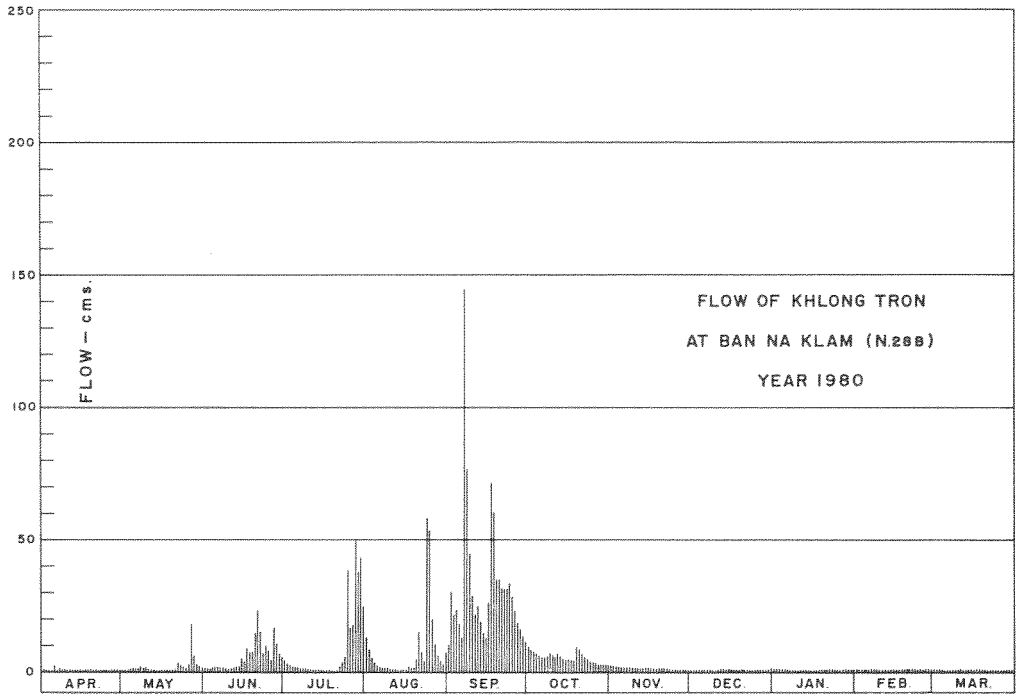
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.41	1.36	1.60	1.83	2.15	2.07	1.96	1.65	1.56	1.51	1.48	1.48	
2	1.41	1.36	1.57	1.77	2.02	2.09	1.91	1.64	1.56	1.51	1.48	1.47	
3	1.41	1.36	1.55	1.72	1.87	2.40	1.87	1.63	1.55	1.51	1.48	1.46	
4	1.40	1.59	1.62	1.68	1.77	2.45	1.85	1.62	1.55	1.51	1.48	1.46	
5	1.66	1.62	1.60	1.63	1.70	2.34	1.82	1.62	1.55	1.51	1.48	1.46	
6	1.50	1.52	1.61	1.61	1.66	2.17	1.80	1.62	1.55	1.51	1.48	1.46	
7	1.59	1.48	1.61	1.61	1.63	4.01	1.78	1.63	1.55	1.51	1.48	1.48	
8	1.51	1.65	1.58	1.59	1.61	2.87	1.80	1.62	1.55	1.50	1.48	1.47	
9	1.47	1.53	1.56	1.57	1.58	2.46	1.89	1.64	1.55	1.50	1.48	1.46	
10	1.44	1.60	1.54	1.58	1.56	2.31	1.83	1.62	1.54	1.50	1.48	1.47	
11	1.42	1.52	1.56	1.57	1.59	2.23	1.81	1.62	1.54	1.50	1.48	1.47	
12	1.41	1.49	1.63	1.56	1.57	2.29	1.87	1.61	1.54	1.50	1.48	1.48	
13	1.40	1.45	1.65	1.53	1.56	2.21	1.82	1.61	1.54	1.50	1.48	1.47	
14	1.40	1.43	1.66	1.53	1.55	2.11	1.78	1.61	1.54	1.50	1.48	1.46	
15	1.39	1.42	1.89	1.56	1.54	2.05	1.75	1.60	1.54	1.50	1.47	1.46	
16	1.38	1.40	1.81	1.52	1.56	2.24	1.75	1.60	1.54	1.50	1.47	1.45	
17	1.37	1.40	2.04	1.50	1.71	2.85	1.78	1.60	1.53	1.49	1.46	1.45	
18	1.37	1.40	1.99	1.50	1.63	2.73	1.74	1.60	1.53	1.49	1.46	1.45	
19	1.37	1.40	1.93	1.52	1.57	2.45	1.97	1.60	1.53	1.49	1.46	1.45	
20	1.37	1.49	2.25	1.53	1.80	2.45	1.96	1.59	1.53	1.49	1.46	1.45	
21	1.37	1.57	2.43	1.54	2.23	2.40	1.84	1.59	1.53	1.49	1.46	1.45	
22	1.37	1.76	2.18	1.70	1.98	2.41	1.80	1.58	1.53	1.49	1.46	1.44	
23	1.36	1.73	1.95	1.81	1.83	2.41	1.78	1.58	1.52	1.49	1.46	1.44	
24	1.36	1.59	2.06	1.87	2.89	2.43	1.73	1.58	1.52	1.49	1.46	1.44	
25	1.36	1.54	1.98	2.72	2.82	2.37	1.72	1.58	1.52	1.49	1.45	1.44	
26	1.37	1.58	1.81	2.28	2.34	2.26	1.71	1.58	1.52	1.49	1.46	1.44	
27	1.44	2.32	2.29	2.31	2.09	2.19	1.68	1.57	1.52	1.49	1.48	1.44	
28	1.42	1.86	2.11	2.91	1.90	2.13	1.66	1.57	1.52	1.48	1.49	1.44	
29	1.38	1.71	1.97	2.71	1.81	2.09	1.65	1.56	1.52	1.48		1.44	
30	1.38	1.64	1.88	2.80	1.76	2.02	1.66	1.56	1.52	1.48		1.44	
31		1.61		2.35	1.96		1.66		1.52	1.48		1.44	
MEAN	1.42	1.56	1.83	1.84	1.85	2.40	1.79	1.60	1.54	1.50	1.47	1.46	
MAX	1.66	2.32	2.43	2.91	2.89	4.01	1.97	1.65	1.56	1.51	1.49	1.48	4.01
MIN	1.36	1.36	1.54	1.50	1.54	2.02	1.65	1.56	1.52	1.48	1.46	1.44	1.36

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.60 M (A.D.), AT 6.00 HOURS, ON SEP 7, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED -0.65 M (A.D.)

LEFT BANK ELEVATION — 7.90 M (A.D.)

RIGHT BANK ELEVATION — 9.29 M (A.D.), DRAINAGE AREA 368 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.06	1.40	4.81	12.50	13.80	9.80	2.30	1.02	0.54	0.38	0.38	
2	0.13	0.06	1.11	3.85	9.00	46.20	8.30	2.12	1.02	0.54	0.38	0.34	
3	0.13	0.06	0.92	3.10	5.49	31.00	7.22	1.94	0.92	0.54	0.38	0.31	
4	0.10	1.30	1.68	2.52	3.85	35.00	6.70	1.76	0.92	0.54	0.38	0.31	
5	2.24	1.68	1.40	1.82	2.80	27.40	5.92	1.76	0.92	0.54	0.38	0.31	
6	0.45	0.64	1.54	1.54	2.24	18.50	5.40	1.76	0.92	0.54	0.38	0.31	
7	1.30	0.38	1.54	1.54	1.82	*******	4.96	1.94	0.92	0.54	0.38	0.38	
8	0.54	2.10	1.21	1.30	1.54	74.40	5.40	1.76	0.92	0.45	0.38	0.34	
9	0.34	0.73	1.02	1.11	1.21	35.80	7.74	2.12	0.92	0.45	0.38	0.31	
10	0.24	1.40	0.83	1.21	1.02	25.60	6.18	1.76	0.83	0.45	0.38	0.34	
11	0.17	0.64	1.02	1.11	1.30	21.50	5.66	1.76	0.83	0.45	0.38	0.34	
12	0.13	0.41	1.82	1.02	1.11	24.50	7.22	1.58	0.83	0.45	0.38	0.38	
13	0.10	0.27	2.10	0.73	1.02	20.50	5.92	1.58	0.83	0.45	0.38	0.34	
14	0.10	0.20	2.24	0.73	0.92	15.50	4.96	1.58	0.83	0.45	0.38	0.31	
15	0.09	0.17	5.83	1.02	0.83	13.00	4.30	1.40	0.83	0.45	0.34	0.31	
16	0.08	0.10	4.47	0.64	1.02	22.00	4.30	1.40	0.83	0.45	0.34	0.27	
17	0.07	0.10	9.50	0.45	2.95	72.00	4.96	1.40	0.73	0.41	0.31	0.27	
18	0.07	0.10	8.25	0.45	1.82	59.00	4.08	1.40	0.73	0.41	0.31	0.27	
19	0.07	0.10	6.75	0.64	1.11	35.00	10.10	1.40	0.73	0.41	0.31	0.27	
20	0.07	0.41	15.75	0.73	4.30	35.00	9.80	1.30	0.73	0.41	0.31	0.27	
21	0.07	1.11	23.50	0.83	15.05	31.00	6.44	1.30	0.73	0.41	0.31	0.27	
22	0.07	3.70	13.40	2.80	8.00	31.80	5.40	1.21	0.73	0.41	0.31	0.24	
23	0.06	3.25	7.25	4.47	4.81	31.80	4.96	1.21	0.64	0.41	0.31	0.24	
24	0.06	1.30	10.00	5.49	48.85	33.40	3.86	1.21	0.64	0.41	0.31	0.24	
25	0.06	0.83	8.00	38.60	44.30	29.20	3.64	1.21	0.64	0.41	0.31	0.24	
26	0.07	1.21	4.47	16.80	19.30	23.00	3.42	1.21	0.64	0.41	0.31	0.24	
27	0.24	18.40	17.15	17.95	10.75	19.50	2.84	1.11	0.64	0.41	0.38	0.24	
28	0.17	5.32	11.30	50.15	6.00	16.50	2.48	1.11	0.64	0.38	0.41	0.24	
29	0.08	2.95	7.75	38.05	4.47	14.60	2.30	1.02	0.64	0.38		0.24	
30	0.08	1.96	5.66	43.00	4.00	11.80	2.48	1.02	0.64	0.38		0.24	
31		1.54		19.75	9.80		2.48		0.64	0.38		0.24	
TOTAL	7.51	52.48	178.86	268.21	233.18	*******	169.22	45.63	24.43	13.86	9.89	9.03	******** CMSDAY
MEAN	0.25	1.69	5.96	8.65	7.52	*******	5.46	1.52	0.79	0.45	0.35	0.29	******* CMS
MAX	2.24	18.40	23.50	50.15	48.85	74.40	10.10	2.30	1.02	0.54	0.41	0.38	74.40 CMS
MIN	0.06	0.06	0.83	0.45	0.83	*******	2.30	1.02	0.64	0.38	0.31	0.24	******* CMS
RUNOFF	0.649	4.534	15.453	23.173	20.147	*******	14.621	3.942	2.111	1.198	0.854	0.780	******** MCM

MOMENTARY PEAK ******** CMS, AT 5.60 M (A.D), AT 6.00 HOURS, ON SEP 7, 1980
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

LAM NAM THAN AT BAN PHRAO, PHITSANULOK (N.29)

LOCATION — LAT. 17°-08'-05" N., LONG. 100°-46'-42" E., ON LEFT BANK AT BAN PHRAO ABOUT 800 METERS DOWNSTREAM FROM PURPOSE DAMSITE, AMPHOE NAKHON THAI, PHITSANULOK.

DRAINAGE AREA — 6 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 30 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +3.650 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971-1972

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971-1972

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 139 DISCHARGE MEASUREMENTS MADE DURING 1971-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

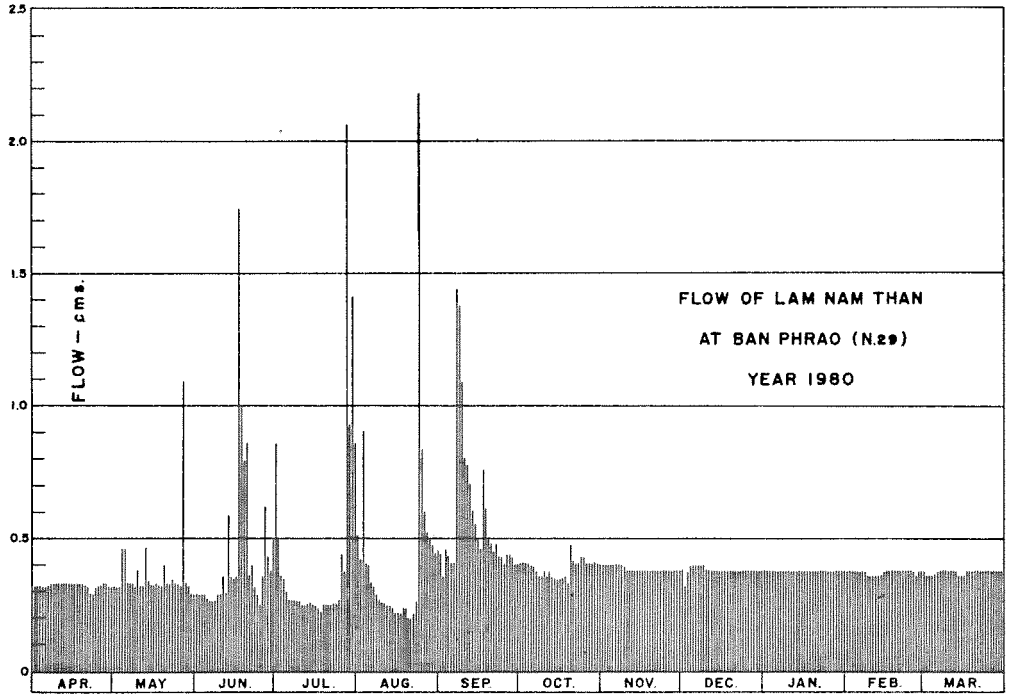
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.71	0.71	0.69	1.01	0.81	0.79	0.77	0.76	0.75	0.75	0.75	0.75	
2	0.71	0.71	0.69	0.78	0.77	0.74	0.77	0.76	0.75	0.75	0.75	0.74	
3	0.71	0.71	0.69	0.73	1.03	0.80	0.77	0.76	0.75	0.75	0.75	0.74	
4	0.71	0.80	0.69	0.73	0.77	0.78	0.76	0.76	0.75	0.75	0.75	0.74	
5	0.71	0.80	0.68	0.70	0.76	0.77	0.76	0.76	0.75	0.75	0.75	0.74	
6	0.71	0.72	0.68	0.68	0.72	0.77	0.76	0.76	0.75	0.75	0.75	0.75	
7	0.72	0.72	0.68	0.68	0.71	1.26	0.75	0.76	0.71	0.75	0.75	0.75	
8	0.72	0.72	0.68	0.68	0.69	1.24	0.74	0.76	0.75	0.75	0.75	0.75	
9	0.72	0.71	0.69	0.68	0.68	1.13	0.73	0.76	0.76	0.75	0.75	0.75	
10	0.72	0.75	0.69	0.68	0.67	0.98	0.75	0.75	0.76	0.75	0.74	0.75	
11	0.72	0.71	0.74	0.66	0.67	0.97	0.74	0.75	0.76	0.75	0.74	0.75	
12	0.72	0.71	0.69	0.66	0.66	0.93	0.75	0.75	0.76	0.75	0.74	0.75	
13	0.72	0.80	0.87	0.67	0.66	0.87	0.74	0.75	0.76	0.75	0.74	0.75	
14	0.72	0.72	0.73	0.67	0.65	0.85	0.73	0.75	0.76	0.75	0.74	0.74	
15	0.72	0.71	0.73	0.66	0.64	0.82	0.73	0.75	0.75	0.75	0.75	0.74	
16	0.72	0.71	0.74	0.66	0.63	0.80	0.73	0.75	0.75	0.75	0.75	0.74	
17	0.72	0.72	1.37	0.65	0.63	0.96	0.74	0.75	0.75	0.75	0.75	0.75	
18	0.72	0.71	1.04	0.64	0.65	0.84	0.74	0.75	0.75	0.75	0.75	0.75	
19	0.72	0.71	0.98	0.66	0.65	0.82	1.22	0.75	0.75	0.75	0.75	0.75	
20	0.72	0.76	1.01	0.66	0.62	0.81	0.81	0.75	0.75	0.75	0.75	0.75	
21	0.71	0.72	0.74	0.66	0.62	0.79	0.77	0.75	0.75	0.75	0.75	0.75	
22	0.69	0.72	0.76	0.66	0.64	0.81	0.77	0.75	0.75	0.75	0.75	0.75	
23	0.69	0.73	0.71	0.67	0.67	0.78	0.77	0.75	0.75	0.75	0.75	0.75	
24	0.71	0.72	0.70	0.67	1.52	0.78	0.78	0.75	0.75	0.75	0.75	0.75	
25	0.71	0.72	0.66	0.67	0.99	0.77	0.78	0.75	0.75	0.75	0.75	0.75	
26	0.71	0.71	0.73	0.79	0.87	0.79	0.77	0.75	0.75	0.75	0.75	0.75	
27	0.72	1.12	0.89	0.75	0.84	0.79	0.77	0.75	0.75	0.75	0.74	0.75	
28	0.72	0.72	0.78	1.48	0.82	0.78	0.76	0.75	0.75	0.75	0.75	0.75	
29	0.71	0.71	0.75	1.04	0.81	0.76	0.77	0.75	0.75	0.75		0.75	
30	0.71	0.69	0.81	1.25	0.79	0.76	0.76	0.75	0.75	0.75		0.75	
31		0.69		0.92	0.80		0.76		0.75	0.75		0.75	
MEAN	0.71	0.74	0.78	0.76	0.76	0.86	0.77	0.75	0.75	0.75	0.75	0.75	
MAX	0.72	1.12	1.37	1.48	1.52	1.26	1.22	0.76	0.76	0.75	0.75	0.75	1.52
MIN	0.69	0.69	0.66	0.64	0.62	0.74	0.73	0.75	0.71	0.75	0.74	0.74	0.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.90 M (A.D), AT 6.00 HOURS, ON JUN 17, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.34 M (A.D)

LEFT BANK ELEVATION 3.99 M (A.D)

RIGHT BANK ELEVATION 4.57 M (A.D), DRAINAGE AREA 6 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.32	0.29	0.86	0.48	0.44	0.41	0.40	0.38	0.38	0.38	0.38	
2	0.32	0.32	0.29	0.43	0.41	0.36	0.41	0.40	0.38	0.38	0.38	0.36	
3	0.32	0.32	0.29	0.35	0.90	0.46	0.41	0.40	0.38	0.38	0.38	0.36	
4	0.32	0.46	0.29	0.35	0.41	0.43	0.40	0.40	0.38	0.38	0.38	0.36	
5	0.32	0.46	0.27	0.30	0.40	0.41	0.40	0.40	0.38	0.38	0.38	0.36	
6	0.32	0.33	0.27	0.27	0.33	0.41	0.40	0.40	0.38	0.38	0.38	0.38	
7	0.33	0.33	0.27	0.27	0.32	1.44	0.38	0.40	0.32	0.38	0.38	0.38	
8	0.33	0.33	0.27	0.27	0.29	1.38	0.36	0.40	0.38	0.38	0.38	0.38	
9	0.33	0.32	0.29	0.27	0.27	1.11	0.35	0.40	0.40	0.38	0.38	0.38	
10	0.33	0.38	0.29	0.27	0.26	0.80	0.38	0.38	0.40	0.38	0.36	0.38	
11	0.33	0.32	0.36	0.25	0.26	0.78	0.36	0.38	0.40	0.38	0.36	0.38	
12	0.33	0.32	0.29	0.25	0.25	0.70	0.38	0.38	0.40	0.38	0.36	0.38	
13	0.33	0.46	0.59	0.26	0.25	0.59	0.36	0.38	0.40	0.38	0.36	0.38	
14	0.33	0.33	0.35	0.26	0.24	0.55	0.35	0.38	0.40	0.38	0.36	0.36	
15	0.33	0.32	0.35	0.25	0.22	0.50	0.35	0.38	0.38	0.38	0.36	0.36	
16	0.33	0.32	0.36	0.25	0.21	0.46	0.35	0.38	0.38	0.38	0.38	0.36	
17	0.33	0.33	1.74	0.24	0.21	0.76	0.36	0.38	0.38	0.38	0.38	0.38	
18	0.33	0.32	0.92	0.22	0.24	0.53	0.36	0.38	0.38	0.38	0.38	0.38	
19	0.33	0.32	0.80	0.25	0.24	0.50	1.33	0.38	0.38	0.38	0.38	0.38	
20	0.33	0.40	0.86	0.25	0.20	0.48	0.48	0.38	0.38	0.38	0.38	0.38	
21	0.32	0.33	0.36	0.25	0.20	0.44	0.41	0.38	0.38	0.38	0.38	0.38	
22	0.29	0.33	0.40	0.25	0.22	0.48	0.41	0.38	0.38	0.38	0.38	0.38	
23	0.29	0.35	0.32	0.26	0.26	0.43	0.41	0.38	0.38	0.38	0.38	0.38	
24	0.32	0.33	0.30	0.26	2.18	0.43	0.43	0.38	0.38	0.38	0.38	0.38	
25	0.32	0.33	0.25	0.26	0.82	0.41	0.43	0.38	0.38	0.38	0.38	0.38	
26	0.32	0.32	0.35	0.44	0.59	0.44	0.41	0.38	0.38	0.38	0.38	0.38	
27	0.33	1.09	0.62	0.38	0.53	0.44	0.41	0.38	0.38	0.38	0.36	0.38	
28	0.33	0.33	0.43	2.06	0.50	0.43	0.40	0.38	0.38	0.38	0.38	0.38	
29	0.32	0.32	0.38	0.92	0.48	0.40	0.41	0.38	0.38	0.38		0.38	
30	0.32	0.29	0.48	1.41	0.44	0.40	0.40	0.38	0.38	0.38		0.38	
31		0.29		0.68	0.46		0.40		0.38	0.38		0.38	
TOTAL	9.70	11.32	13.33	13.29	13.07	17.39	13.10	11.58	11.84	11.78	10.52	11.64	148.56 CMSDAY
MEAN	0.32	0.37	0.44	0.43	0.42	0.58	0.42	0.39	0.38	0.38	0.38	0.38	0.41 CMS
MAX	0.33	1.09	1.74	2.06	2.18	1.44	1.33	0.40	0.40	0.38	0.38	0.38	2.18 CMS
MIN	0.29	0.29	0.25	0.22	0.20	0.36	0.35	0.38	0.32	0.38	0.36	0.36	0.20 CMS
RUNOFF	0.838	0.978	1.152	1.148	1.129	1.502	1.132	1.001	1.023	1.018	0.909	1.006	12.836 MCM

MOMENTARY PEAK 3.32 CMS, AT 1.90 M (A.D), AT 6.00 HOURS, ON JUN 17, 1980

RUNOFF YIELD 67.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 553.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAM PAT AT BAN WANG BANG, UTTARADIT (N.33)

LOCATION — LAT. 17°-43'-05" N., LONG. 100°-34'-32" E., ON RIGHT BANK ABOUT 4.5 KILOMETERS UPSTREAM FROM CONFLUENCE WITH NAN RIVER AT BAN WANG BANG, TAMBON SAEN TO, AMPHOE NAM PAT, UTTARADIT.

DRAINAGE AREA — 2,463 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +79.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +87.268 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

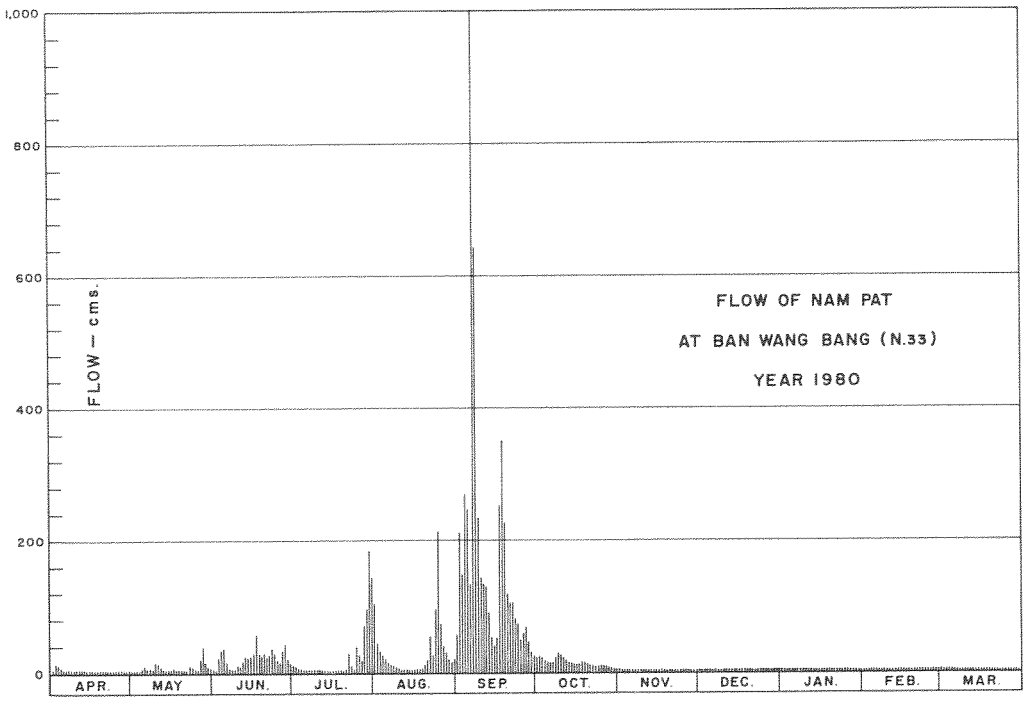
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	79.35	79.44	79.81	80.10	81.38	81.30	80.25	79.74	79.56	79.42	79.35	79.29	
2	80.31	79.40	79.73	80.00	81.00	82.43	80.29	79.73	79.55	79.42	79.35	79.28	
3	80.20	79.52	80.73	79.94	80.78	82.07	80.24	79.72	79.54	79.42	79.35	79.28	
4	79.77	79.69	80.80	79.88	80.62	82.46	80.13	79.70	79.53	79.41	79.35	79.28	
5	79.63	79.92	80.84	79.83	80.46	82.31	80.07	79.70	79.53	79.41	79.34	79.28	
6	79.56	80.14	80.22	79.80	80.24	81.55	80.02	79.69	79.52	79.41	79.33	79.28	
7	79.53	79.88	80.03	79.82	80.16	85.32	80.02	79.69	79.52	79.41	79.33	79.29	
8	79.48	79.95	79.88	79.79	80.09	83.73	80.21	79.69	79.51	79.41	79.33	79.31	
9	79.45	79.73	79.86	79.76	80.04	82.11	80.41	79.68	79.50	79.41	79.33	79.30	
10	79.44	80.35	80.18	79.76	79.99	81.61	80.30	79.70	79.50	79.40	79.33	79.30	
11	79.44	80.26	80.08	79.71	79.96	81.55	80.29	79.71	79.49	79.40	79.33	79.35	
12	79.42	79.89	80.37	79.69	79.93	81.52	80.16	79.69	79.48	79.40	79.32	79.38	
13	79.40	79.73	80.58	79.69	79.88	81.08	80.07	79.67	79.47	79.39	79.32	79.36	
14	79.39	79.77	80.47	79.73	79.87	80.81	80.03	79.66	79.47	79.39	79.32	79.33	
15	79.39	79.69	80.55	79.74	79.85	80.62	79.98	79.66	79.46	79.39	79.32	79.32	
16	79.38	79.80	80.62	79.71	79.92	80.77	79.95	79.65	79.45	79.38	79.32	79.32	
17	79.52	79.99	81.22	79.67	79.93	82.33	79.96	79.64	79.46	79.38	79.31	79.30	
18	79.54	79.80	80.76	79.66	79.96	82.95	80.09	79.63	79.45	79.37	79.31	79.30	
19	79.49	79.69	80.39	79.82	79.93	81.91	80.12	79.62	79.45	79.37	79.31	79.30	
20	79.48	79.87	80.68	79.70	80.06	81.34	80.00	79.62	79.45	79.36	79.31	79.29	
21	79.45	79.78	80.52	79.70	80.54	81.33	79.99	79.62	79.49	79.36	79.31	79.28	
22	79.59	79.77	80.64	80.72	81.17	81.31	79.91	79.60	79.44	79.36	79.30	79.29	
23	79.58	80.15	80.88	80.10	80.64	81.09	79.86	79.60	79.43	79.36	79.30	79.29	
24	79.52	79.98	80.76	79.92	81.30	81.01	79.85	79.59	79.44	79.36	79.30	79.27	
25	79.48	79.98	80.43	80.92	82.44	80.74	79.96	79.59	79.43	79.36	79.30	79.25	
26	79.45	79.82	80.23	80.66	81.38	80.86	79.95	79.59	79.43	79.36	79.30	79.26	
27	79.52	80.40	80.91	80.45	80.92	80.93	79.87	79.58	79.43	79.36	79.30	79.26	
28	79.50	80.88	80.99	81.42	80.63	80.61	79.84	79.58	79.42	79.36	79.30	79.26	
29	79.56	80.22	80.47	81.56	80.46	80.45	79.80	79.58	79.42	79.36		79.26	
30	79.48	80.02	80.24	82.29	80.35	80.30	79.78	79.57	79.42	79.36		79.26	
31		79.97		81.80	80.44		79.75		79.41	79.35		79.26	
MEAN	79.54	79.92	80.46	80.17	80.46	81.61	80.04	79.65	79.47	79.38	79.32	79.29	
MAX	80.31	80.88	81.22	82.29	82.44	85.32	80.41	79.74	79.56	79.42	79.35	79.38	85.32
MIN	79.35	79.40	79.73	79.66	79.85	80.30	79.75	79.57	79.41	79.35	79.30	79.25	79.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 86.54 M (MSL), AT 10.00 HOURS, ON SEP 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 79.00 M (MSL), RIVER BED 79.20 M (MSL)
LEFT BANK ELEVATION 88.90 M (MSL)
RIGHT BANK ELEVATION 92.90 M (MSL), DRAINAGE AREA 2463 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.56	4.20	10.00	70.50	64.50	24.00	6.80	3.40	1.30	0.75	0.45	
2	15.30	0.20	3.30	8.00	44.00	212.05	25.60	6.60	3.25	1.30	0.75	0.40	
3	12.00	1.28	31.20	6.80	33.20	148.50	23.60	6.40	3.10	1.30	0.75	0.40	
4	3.70	2.90	34.00	5.60	26.80	269.40	19.20	6.00	2.95	1.15	0.75	0.40	
5	2.30	6.40	36.00	4.60	20.40	243.05	16.80	6.00	2.95	1.15	0.70	0.40	
6	1.64	10.80	12.60	4.00	13.20	133.50	14.80	5.80	2.80	1.15	0.65	0.40	
7	1.37	5.60	8.60	4.40	11.20	1080.00	14.80	5.80	2.80	1.15	0.65	0.45	
8	0.92	7.00	5.60	3.90	9.80	547.40	22.40	5.80	2.65	1.15	0.65	0.55	
9	0.65	3.30	5.20	3.60	8.80	212.50	30.50	5.60	2.50	1.15	0.65	0.50	
10	0.56	16.50	11.60	3.60	7.80	141.30	26.00	6.00	2.50	1.00	0.65	0.50	
11	0.56	13.80	9.60	3.10	7.20	133.50	25.60	6.20	2.35	1.00	0.65	0.75	
12	0.38	5.80	17.10	2.90	6.60	129.60	20.40	5.80	2.20	1.00	0.60	0.90	
13	0.20	3.30	25.20	2.90	5.60	80.00	16.80	5.40	2.05	0.95	0.60	0.80	
14	0.19	3.70	20.80	3.30	5.40	55.85	15.20	5.20	2.05	0.95	0.60	0.65	
15	0.19	2.90	24.00	3.40	5.00	41.50	13.40	5.20	1.90	0.95	0.60	0.60	
16	0.18	4.00	26.80	3.10	6.40	52.75	12.50	5.00	1.75	0.90	0.60	0.60	
17	1.28	7.80	58.50	2.70	6.60	246.15	12.80	4.80	1.90	0.90	0.55	0.50	
18	1.46	4.00	32.40	2.60	7.20	350.50	17.60	4.60	1.75	0.85	0.55	0.50	
19	1.01	2.90	17.70	4.40	6.60	182.50	18.80	4.40	1.75	0.85	0.55	0.50	
20	0.92	5.40	29.20	3.00	9.60	107.40	14.00	4.40	1.75	0.80	0.55	0.45	
21	0.65	3.80	22.80	3.00	23.60	106.30	13.70	4.40	2.35	0.80	0.55	0.40	
22	1.91	3.70	27.60	30.80	55.05	104.10	11.30	4.00	1.60	0.80	0.50	0.45	
23	1.82	11.00	38.00	10.00	27.60	80.00	9.80	4.00	1.45	0.80	0.50	0.45	
24	1.28	7.60	32.40	6.40	64.50	73.00	9.50	3.85	1.60	0.80	0.50	0.35	
25	0.92	7.60	19.20	40.00	214.40	50.50	12.80	3.85	1.45	0.80	0.50	0.25	
26	0.65	4.40	12.90	28.40	70.50	60.10	12.50	3.85	1.45	0.80	0.50	0.30	
27	1.28	18.00	39.50	20.00	40.00	66.05	10.10	3.70	1.45	0.80	0.50	0.30	
28	1.10	38.00	43.50	73.80	27.20	40.75	9.20	3.70	1.30	0.80	0.50	0.30	
29	1.64	12.60	20.80	86.40	20.40	32.50	8.00	3.70	1.30	0.80		0.30	
30	0.92	8.40	13.20	184.65	16.50	26.00	7.60	3.55	1.30	0.80		0.30	
31		7.40		112.00	19.60		7.00		1.15	0.75		0.30	
TOTAL	57.13	230.64	683.50	681.35	891.25	5071.25	496.30	150.40	64.75	29.70	16.85	14.40	8387.51 CMSDAY
MEAN	1.90	7.44	22.78	21.98	28.75	169.04	16.01	5.01	2.09	0.96	0.60	0.46	22.98 CMS
MAX	15.30	38.00	58.50	184.65	214.40	1080.00	30.50	6.80	3.40	1.30	0.75	0.90	1080.00 CMS
MIN	0.15	0.20	3.30	2.60	5.00	26.00	7.00	3.55	1.15	0.75	0.50	0.25	0.15 CMS
RUNOFF	4.936	19.927	59.054	58.869	77.004	438.156	42.880	12.995	5.594	2.566	1.456	1.244	724.680 MCM

MOMENTARY PEAK 1612.40 CMS, AT 86.54 M (MSL), AT 10.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 9.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 654.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAN RIVER AT KAENG SARANG, NAN (N.35)

LOCATION — LAT. 18°-24'-00" N., LONG. 100°-51'-05" E., ON LEFT BANK ABOUT 25 KILOMETERS DOWNSTREAM FROM AMPHOE SA OFFICE, BETWEEN DOI KHON KAEN AND DOI CHAM HANG, AMPHOE SA, NAN.

DRAINAGE AREA — 10,335 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — IN THE VICINITY OF METEOROLOGICAL STATION.

ELEVATION — +12.354 M. (A.D.)

GAGE READING FREQUENCY — 3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE; NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

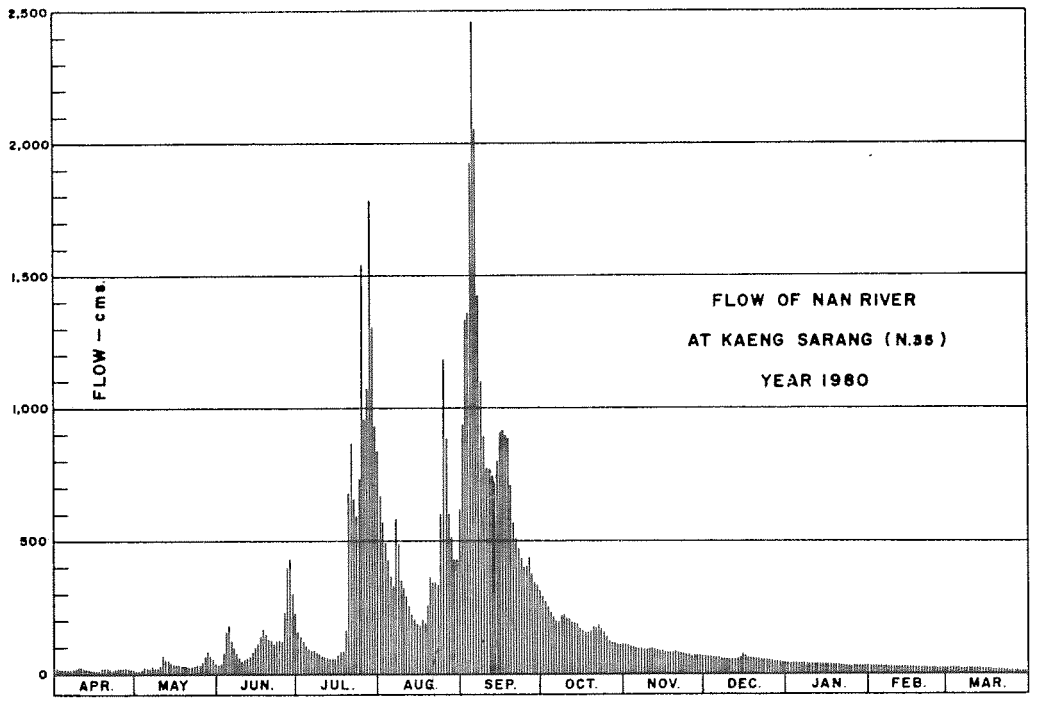
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 72 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.83	0.76	0.98	1.80	4.45	5.44	2.64	1.55	1.23	1.04	0.93	0.84	
2	0.82	0.77	0.94	1.72	4.07	6.51	2.56	1.53	1.21	1.03	0.93	0.82	
3	0.84	0.81	1.17	1.59	3.72	6.59	2.42	1.50	1.20	1.03	0.93	0.83	
4	0.83	0.90	1.90	1.48	3.44	8.32	2.28	1.47	1.19	1.02	0.93	0.83	
5	0.80	0.84	2.01	1.39	3.08	9.09	2.20	1.45	1.18	1.02	0.93	0.83	
6	0.81	0.82	1.62	1.40	2.80	8.11	2.11	1.43	1.17	1.02	0.92	0.83	
7	0.81	0.91	1.43	1.38	4.07	6.68	2.07	1.42	1.17	1.01	0.91	0.83	
8	0.82	0.84	1.25	1.31	3.62	5.85	2.16	1.42	1.16	1.01	0.91	0.83	
9	0.88	0.81	1.13	1.27	2.97	5.30	2.25	1.41	1.15	1.00	0.91	0.85	
10	0.90	0.86	1.06	1.23	2.82	4.84	2.18	1.49	1.15	1.00	0.90	0.83	
11	0.84	1.22	1.08	1.19	2.61	4.85	2.13	1.42	1.14	1.00	0.90	0.83	
12	0.82	1.06	1.16	1.18	2.45	4.82	2.12	1.39	1.13	0.99	0.89	0.84	
13	0.80	1.09	1.18	1.16	2.26	4.61	2.06	1.38	1.13	0.99	0.89	0.83	
14	0.79	1.05	1.33	1.14	2.14	4.90	2.03	1.37	1.18	0.99	0.88	0.82	
15	0.78	0.98	1.48	1.15	2.04	5.31	1.92	1.35	1.29	0.98	0.87	0.81	
16	0.77	0.98	1.47	1.22	2.00	5.37	1.84	1.34	1.19	0.98	0.87	0.80	
17	0.78	0.94	1.67	1.32	2.13	5.31	1.83	1.33	1.16	0.98	0.86	0.80	
18	0.89	0.92	1.93	1.29	2.05	5.24	1.81	1.32	1.14	0.97	0.86	0.79	
19	0.88	0.96	1.80	1.51	2.26	4.42	1.84	1.33	1.12	0.97	0.85	0.79	
20	0.86	0.94	1.62	4.42	3.06	3.98	1.96	1.33	1.11	0.97	0.85	0.79	
21	0.83	0.88	1.60	5.19	2.92	3.83	1.88	1.32	1.10	0.96	0.85	0.79	
22	0.80	0.93	1.57	4.49	2.95	3.65	2.02	1.30	1.09	0.96	0.85	0.79	
23	0.83	0.94	1.55	4.05	2.86	3.44	1.93	1.28	1.08	0.96	0.85	0.78	
24	0.87	0.99	1.64	4.63	4.14	3.23	1.83	1.27	1.07	0.96	0.85	0.78	
25	0.87	0.98	1.62	7.04	6.13	3.21	1.72	1.27	1.07	0.96	0.85	0.77	
26	0.86	0.98	1.83	5.51	5.28	3.39	1.62	1.27	1.06	0.95	0.84	0.77	
27	0.83	1.11	3.21	5.82	4.29	3.08	1.58	1.26	1.06	0.95	0.84	0.77	
28	0.80	1.36	3.40	7.62	3.85	2.90	1.55	1.26	1.05	0.94	0.84	0.77	
29	0.78	1.26	2.61	6.97	3.36	2.90	1.54	1.25	1.05	0.94		0.77	
30	0.77	1.17	2.03	5.56	3.35	2.78	1.53	1.23	1.04	0.93		0.77	
31		1.05		4.60	3.92		1.53		1.04	0.93		0.77	
MEAN	0.83	0.97	1.64	2.96	3.26	4.93	1.97	1.36	1.13	0.98	0.88	0.80	
MAX	0.90	1.36	3.40	7.62	6.13	9.09	2.64	1.55	1.29	1.04	0.93	0.85	9.09
MIN	0.77	0.76	0.94	1.14	2.00	2.78	1.53	1.23	1.04	0.93	0.84	0.77	0.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.15 M (A.D), AT 2.00 HOURS, ON SEP 5, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.31 M (A.D)
LEFT BANK ELEVATION 14.22 M (A.D)
RIGHT BANK ELEVATION 16.25 M (A.D), DRAINAGE AREA 10335 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	21.4	14.4	38.7	154.0	672.0	946.2	294.2	116.7	72.0	46.4	32.9	22.6	
2	20.3	15.3	34.1	142.0	584.1	1328.4	280.0	113.8	69.3	45.0	32.9	20.3	
3	22.6	19.1	63.9	122.5	503.6	1360.0	255.5	109.5	68.0	45.0	32.9	21.4	
4	21.4	29.5	170.0	106.6	444.8	2097.8	231.6	105.1	66.6	43.7	32.9	21.4	
5	18.0	22.6	187.6	93.6	375.2	2458.5	218.0	102.2	65.3	43.7	32.9	21.4	
6	19.1	20.3	127.0	95.0	323.0	2000.6	203.6	99.3	63.9	43.7	31.8	21.4	
7	19.1	30.6	99.3	92.3	584.1	1396.0	197.2	97.9	63.9	42.3	30.6	21.4	
8	20.3	22.6	74.7	82.8	480.6	1082.5	211.6	97.9	62.6	42.3	30.6	21.4	
9	27.2	19.1	58.5	77.4	354.4	903.5	226.5	96.4	61.2	41.0	30.6	23.7	
10	29.5	24.9	49.1	72.0	326.7	771.8	214.8	108.0	61.2	41.0	29.5	21.4	
11	22.6	70.7	51.8	66.6	288.8	774.5	206.8	97.9	59.9	41.0	29.5	21.4	
12	20.3	49.1	62.6	65.3	260.7	766.4	205.2	93.6	58.5	39.8	28.3	22.6	
13	18.0	53.1	65.3	62.6	228.2	710.6	195.6	92.3	58.5	39.8	28.3	21.4	
14	17.1	47.7	85.5	59.9	208.4	788.0	190.8	90.9	65.3	39.8	27.2	20.3	
15	16.2	38.7	106.6	61.2	192.4	906.5	173.2	88.2	80.1	38.7	26.0	19.1	
16	15.3	38.7	105.1	70.7	186.0	924.8	160.4	86.9	66.6	38.7	26.0	18.0	
17	16.2	34.1	134.5	84.2	206.8	906.5	158.8	85.5	62.6	38.7	24.9	18.0	
18	28.3	31.8	174.8	80.1	194.0	885.2	155.6	84.2	59.9	37.5	24.9	17.1	
19	27.2	36.4	154.0	111.0	228.2	664.8	160.4	85.5	57.2	37.5	23.7	17.1	
20	24.9	34.1	127.0	664.8	371.4	563.4	179.6	85.5	55.8	37.5	23.7	17.1	
21	21.4	27.2	124.0	870.1	345.2	528.9	166.8	84.2	54.5	36.4	23.7	17.1	
22	18.0	32.9	119.6	681.6	350.7	487.5	189.2	81.5	53.1	36.4	23.7	17.1	
23	21.4	34.1	116.7	579.5	334.1	444.8	174.8	78.8	51.8	36.4	23.7	16.2	
24	26.0	39.8	130.0	715.9	600.2	403.8	158.8	77.4	50.4	36.4	23.7	16.2	
25	26.0	38.7	127.0	1540.2	1183.7	399.9	142.0	77.4	50.4	36.4	23.7	15.3	
26	24.9	38.7	158.8	967.5	897.4	435.0	127.0	77.4	49.1	35.2	22.6	15.3	
27	21.4	55.8	399.9	1072.0	634.7	375.2	121.1	76.1	49.1	35.2	22.6	15.3	
28	18.0	89.6	437.0	1783.7	533.5	341.5	116.7	76.1	47.7	34.1	22.6	15.3	
29	16.2	76.1	288.8	1512.0	429.2	341.5	115.3	74.7	47.7	34.1		15.3	
30	15.3	63.9	190.8	982.8	427.2	319.4	113.8	72.0	46.4	32.9		15.3	
31		47.7		708.0	549.6		113.8		46.4	32.9		15.3	
TOTAL	693.6	1197.3	4062.7	13777.9	12298.9	26313.5	5658.7	2712.9	1825.0	1209.5	766.4	582.2	72038.5 CMSDAY
MEAN	21.1	38.6	135.4	444.4	429.0	877.1	182.5	90.4	58.9	39.0	27.4	18.8	197.4 CMS
MAX	29.5	89.6	437.0	1783.7	1183.7	2458.5	294.2	116.7	80.1	46.4	32.9	23.7	2458.5 CMS
MIN	15.3	14.4	34.1	59.9	186.0	319.4	113.8	72.0	46.4	32.9	22.6	15.3	14.4 CMS
RUNOFF	54.74	103.45	351.02	1190.41	1149.02	2273.48	488.91	234.39	157.68	104.50	66.22	50.30	6224.12 MCM

MOMENTARY PEAK 2488.25 CMS, AT 9.15 M (A.D), AT 2.00 HOURS, ON SEP 5, 1980
RUNOFF YIELD 19.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 240.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

KHWAE NOI AT BAN NONG KRATHAO, PHITSANULOK (N.36)

LOCATION — LAT. 17°-04'-59" N., LONG. 100°-49'-55" E., ON LEFT BANK ABOUT 50 METERS UPSTREAM FROM BELLY BRIDGE ALONG LOM SAK-NAKHON THAI ROAD, TAMBON NONG KRATHAO, AMPHOE NAKHON THAI, PHITSANULOK.

DRAINAGE AREA — 1,651 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ALONG THE MEASURING LINE.

ELEVATION — +6.154 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +6.91 M.(A.D.); RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1,106 DISCHARGE MEASUREMENTS MADE DURING 1973-1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

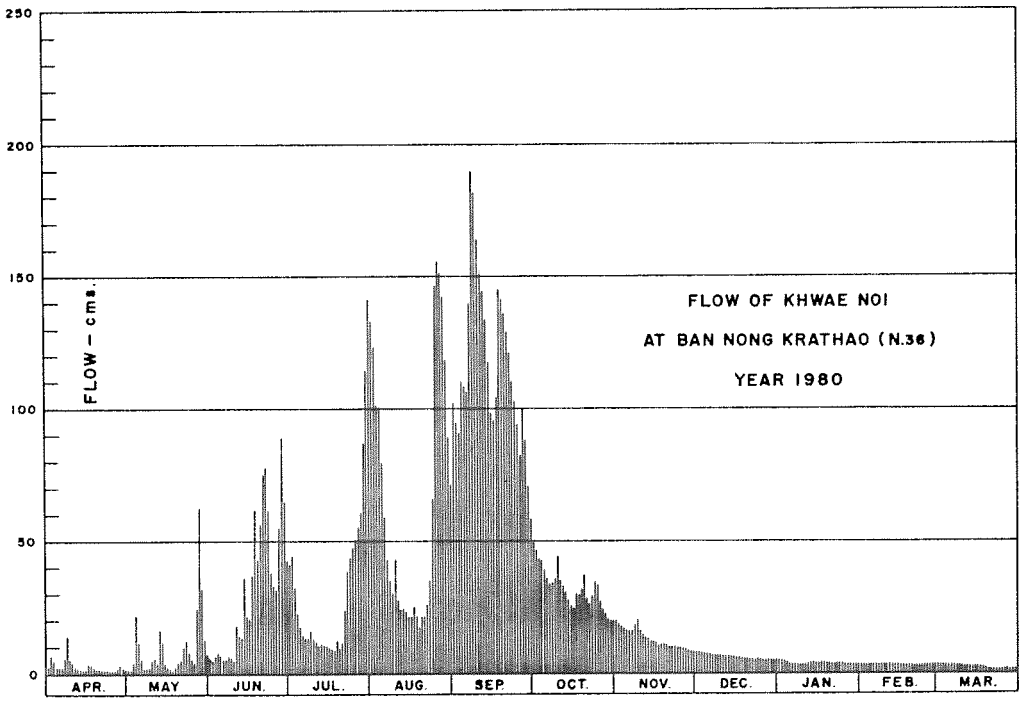
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.62	1.06	3.60	6.90	6.33	4.04	2.28	1.36	1.08	0.91	0.84	
2	1.20	0.59	0.96	3.77	6.75	6.08	3.83	2.17	1.35	1.06	0.91	0.84	
3	0.97	0.57	1.21	2.84	6.31	5.96	3.75	2.08	1.34	1.01	0.90	0.84	
4	0.78	2.34	1.32	2.29	6.27	6.55	3.66	2.03	1.33	0.96	0.90	0.84	
5	0.80	1.67	1.17	2.02	5.30	6.52	3.46	2.00	1.31	0.91	0.90	0.84	
6	0.78	1.10	1.08	1.84	4.41	6.46	3.28	1.96	1.29	0.89	0.89	0.84	
7	1.12	0.76	1.06	1.76	3.50	7.05	3.18	1.97	1.29	0.89	0.89	0.84	
8	1.84	0.81	1.22	1.79	3.19	7.26	3.22	2.10	1.28	0.89	0.92	0.84	
9	0.99	0.82	1.19	1.98	2.91	7.22	3.26	2.27	1.27	0.88	0.94	0.82	
10	0.82	1.08	1.04	1.76	3.71	7.12	3.77	2.03	1.24	0.88	0.93	0.79	
11	0.74	1.12	2.11	1.62	2.58	7.07	3.24	1.88	1.23	0.91	0.91	0.79	
12	0.69	0.86	1.84	1.54	2.56	7.01	3.10	1.81	1.22	0.99	0.89	0.80	
13	0.66	2.01	1.76	1.61	2.56	6.92	2.96	1.77	1.21	0.99	0.88	0.79	
14	0.65	1.62	2.95	1.57	2.49	6.58	2.77	1.71	1.21	0.97	0.86	0.79	
15	0.66	0.88	2.37	1.52	2.30	6.19	2.63	1.71	1.20	0.96	0.86	0.79	
16	0.95	0.76	2.28	1.48	2.34	6.13	2.58	1.67	1.19	0.95	0.86	0.79	
17	0.85	0.69	3.47	1.47	2.64	6.47	2.91	1.64	1.18	0.96	0.84	0.78	
18	0.72	0.67	4.68	1.46	2.41	7.02	2.89	1.62	1.15	0.95	0.85	0.73	
19	0.68	0.79	3.71	1.71	2.12	6.99	3.05	1.60	1.13	0.94	0.85	0.67	
20	0.66	1.00	4.51	1.45	2.37	6.95	3.36	1.58	1.12	0.94	0.84	0.67	
21	0.64	1.04	5.34	1.67	2.45	6.86	2.82	1.56	1.11	0.93	0.84	0.67	
22	0.64	1.50	5.44	2.68	2.69	6.77	2.65	1.55	1.10	0.93	0.84	0.67	
23	0.60	1.78	4.71	3.43	3.20	6.51	2.95	1.53	1.09	0.95	0.84	0.67	
24	0.58	1.32	3.44	3.77	4.93	6.28	3.18	1.50	1.09	0.94	0.84	0.67	
25	0.58	1.06	3.12	3.98	7.04	6.01	3.16	1.53	1.09	0.94	0.83	0.67	
26	0.57	0.90	2.97	4.15	7.09	5.65	2.77	1.45	1.09	0.93	0.83	0.67	
27	0.77	2.03	4.38	4.43	7.06	6.25	2.55	1.44	1.09	0.93	0.83	0.67	
28	0.90	4.75	5.89	4.74	6.99	5.88	2.41	1.42	1.08	0.92	0.88	0.67	
29	0.70	2.47	4.75	6.15	6.59	5.08	2.31	1.38	1.08	0.91		0.67	
30	0.65	1.51	3.66	6.91	5.85	4.59	2.26	1.38	1.08	0.91		0.67	
31		1.17		6.99	5.16		2.27		1.08	0.91		0.67	
MEAN	0.79	1.30	2.82	2.84	4.28	6.46	3.04	1.75	1.19	0.94	0.87	0.75	
MAX	1.84	4.75	5.89	6.99	7.09	7.26	4.04	2.28	1.36	1.08	0.94	0.84	7.26
MIN	0.57	0.57	0.96	1.45	2.12	4.59	2.26	1.38	1.08	0.88	0.83	0.67	0.57

ANNUAL MAX MOMENTARY GAGE HEIGHT — 7.30 M (A.D), AT 23.00 HOURS, ON SEP 8, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — M (A.D)

LEFT BANK ELEVATION — 6.98 M (A.D)

RIGHT BANK ELEVATION — 6.91 M (A.D), DRAINAGE AREA — 1651 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.67	1.56	5.23	41.30	131.40	102.09	49.12	20.52	8.51	5.44	3.79	3.16	
2	6.70	1.39	4.24	44.27	120.10	94.42	45.34	18.98	8.40	5.23	3.79	3.16	
3	4.33	1.28	6.81	28.84	101.43	90.98	43.92	17.72	8.29	4.70	3.70	3.16	
4	2.64	21.38	8.06	20.66	100.17	110.00	42.35	17.02	8.17	4.24	3.70	3.16	
5	2.80	12.26	6.38	16.88	74.50	108.80	38.92	16.60	7.95	3.79	3.70	3.16	
6	2.64	5.65	5.44	14.47	55.99	106.56	35.88	16.06	7.72	3.61	3.61	3.16	
7	5.86	2.48	5.23	13.43	39.60	149.25	34.28	16.19	7.72	3.61	3.61	3.16	
8	14.47	2.89	6.93	13.82	34.44	189.50	34.92	18.00	7.61	3.61	3.88	3.16	
9	4.51	2.98	6.59	16.33	29.96	180.50	35.56	20.38	7.49	3.52	4.06	2.98	
10	2.98	5.44	5.02	13.43	43.22	160.40	44.27	17.02	7.15	3.52	3.97	2.72	
11	2.32	5.86	18.14	11.61	24.90	152.15	35.24	14.99	7.04	3.79	3.79	2.72	
12	1.94	3.34	14.47	10.60	24.60	143.45	33.00	14.08	6.93	4.51	3.61	2.80	
13	1.78	16.74	13.43	11.48	24.60	133.52	30.76	13.56	6.81	4.51	3.52	2.72	
14	1.73	11.61	30.60	10.97	23.55	111.20	27.75	12.78	6.81	4.33	3.34	2.72	
15	1.78	3.52	21.81	10.35	20.80	97.70	25.65	12.78	6.70	4.24	3.34	2.72	
16	4.15	2.48	20.52	9.87	21.38	95.90	24.90	12.26	6.59	4.15	3.34	2.72	
17	3.23	1.94	39.09	9.76	25.80	106.92	29.96	11.87	6.49	4.24	3.16	2.64	
18	2.16	1.83	61.30	9.65	22.39	144.90	29.64	11.61	6.17	4.15	3.25	2.24	
19	1.89	2.72	43.22	12.78	18.28	140.94	32.20	11.35	5.96	4.06	3.25	1.83	
20	1.78	4.60	57.90	9.53	21.81	136.70	37.22	11.10	5.86	4.06	3.16	1.83	
21	1.67	5.02	75.42	12.26	22.97	128.12	28.52	10.85	5.75	3.97	3.16	1.83	
22	1.67	10.10	77.76	26.40	26.55	121.34	25.95	10.72	5.65	3.97	3.16	1.83	
23	1.45	13.69	61.90	38.41	34.60	108.40	30.60	10.47	5.54	4.15	3.16	1.83	
24	1.34	8.06	38.58	44.27	66.49	100.48	34.28	10.10	5.54	4.06	3.16	1.83	
25	1.34	5.23	33.32	48.04	147.80	92.39	33.96	10.47	5.54	4.06	3.07	1.83	
26	1.28	3.70	30.92	51.10	155.05	82.87	27.75	9.53	5.54	3.97	3.07	1.83	
27	2.56	17.02	55.42	56.37	150.70	99.55	24.45	9.42	5.54	3.97	3.07	1.83	
28	3.70	62.70	89.04	62.50	140.94	88.78	22.39	9.19	5.44	3.88	3.52	1.83	
29	2.00	23.26	62.70	96.50	111.60	69.72	20.94	8.74	5.44	3.79		1.83	
30	1.73	10.22	42.35	132.46	88.00	59.50	20.24	8.74	5.44	3.79		1.83	
31		6.38		140.94	71.44		20.38		5.44	3.79		1.83	
TOTAL	90.12	277.33	947.82	1039.28	1975.06	3507.03	1000.34	403.10	205.23	126.71	96.94	76.05	9744.99 CMSDAY
MEAN	3.00	8.95	31.59	33.53	63.71	116.90	32.27	13.44	6.62	4.09	3.46	2.45	26.70 CMS
MAX	14.47	62.70	89.04	140.94	155.05	189.50	49.12	20.52	8.51	5.44	4.06	3.16	189.50 CMS
MIN	1.28	1.28	4.24	9.53	18.28	59.50	20.24	8.74	5.44	3.52	3.07	1.83	1.28 CMS
RUNOFF	7.786	23.961	81.892	89.794	170.645	303.007	86.429	34.828	17.732	10.948	8.376	6.571	841.967 MCM

MOMENTARY PEAK 198.50 CMS, AT 7.30 M (A.D), AT 23.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 16.17 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 120.23 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

KHWAE NOI AT BAN NONG BON, PHITSANULOK (N.40)

LOCATION — LAT. 17°-13'-14" N., LONG. 100°-21'-10" E., ON LEFT BANK ABOUT 2 KILOMETERS UPSTREAM FROM BAN NONG BON, AMPHOE WAT BOT, PHITSANULOK.

DRAINAGE AREA — 4,340 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — B.M.1 ABOUT 4 METERS SOUTH OF THE GAGE SITE, B.M.2 ABOUT 90 METERS SOUTH OF THE GAGE SITE.

ELEVATION — B.M.1=+14.45 M. (A.D.), B.M.2=+14.40 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 108 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

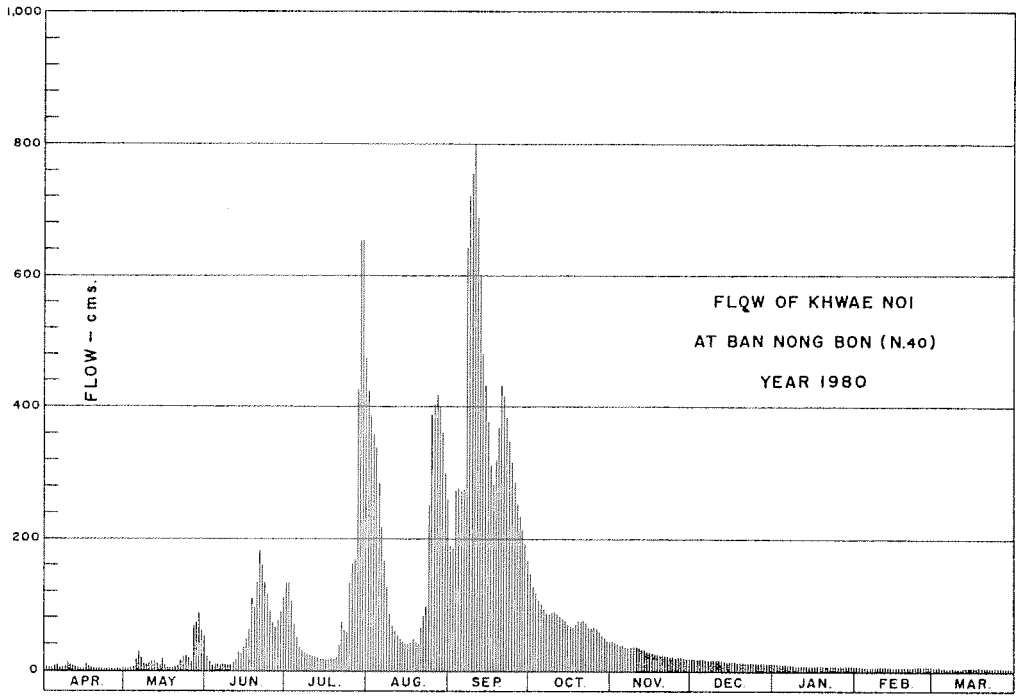
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.65	1.23	4.17	8.33	5.65	4.38	2.18	1.29	0.94	0.77	0.67	
2	0.73	0.59	1.03	4.16	7.48	5.63	4.05	2.14	1.27	0.93	0.76	0.72	
3	0.61	0.57	0.93	3.51	7.26	6.25	3.86	2.08	1.26	0.93	0.76	0.73	
4	0.71	0.75	0.86	2.82	7.02	6.29	3.69	1.98	1.25	0.92	0.76	0.71	
5	0.77	1.23	0.98	2.23	6.05	6.21	3.55	1.93	1.23	0.91	0.76	0.69	
6	0.67	1.67	0.98	2.03	5.30	6.28	3.39	1.92	1.22	0.90	0.75	0.69	
7	0.67	1.18	0.91	1.71	4.60	9.90	3.27	1.90	1.21	0.90	0.77	0.69	
8	0.69	0.91	0.86	1.61	3.83	10.51	3.22	1.88	1.20	0.89	0.76	0.68	
9	1.07	0.76	0.86	1.59	3.20	10.64	3.26	1.89	1.18	0.89	0.79	0.68	
10	1.01	1.06	0.88	1.58	2.84	11.14	3.25	1.99	1.15	0.88	0.77	0.72	
11	0.79	1.10	1.04	1.48	2.64	11.06	3.28	1.91	1.14	0.87	0.77	0.72	
12	0.69	1.15	1.23	1.32	2.44	10.64	3.15	1.78	1.12	0.87	0.76	0.72	
13	0.64	0.99	1.69	1.30	2.31	9.42	3.05	1.73	1.11	0.85	0.75	0.73	
14	0.60	0.88	1.47	1.28	2.15	8.31	2.96	1.68	1.10	0.85	0.74	0.73	
15	0.58	1.29	2.00	1.26	2.08	7.25	2.82	1.66	1.09	0.84	0.73	0.72	
16	0.96	0.94	2.36	1.23	2.01	6.64	2.75	1.63	1.08	0.83	0.73	0.71	
17	0.91	0.74	2.72	1.20	2.18	6.33	2.74	1.59	1.07	0.83	0.72	0.69	
18	0.62	0.67	3.69	1.16	2.25	6.80	2.82	1.56	1.06	0.83	0.71	0.67	
19	0.68	0.69	3.42	1.27	2.18	7.54	3.03	1.54	1.09	0.82	0.71	0.65	
20	0.62	0.85	4.15	1.34	1.97	8.02	2.96	1.51	1.03	0.82	0.71	0.64	
21	0.58	0.87	5.00	2.01	2.65	7.92	3.04	1.49	1.03	0.81	0.70	0.62	
22	0.57	1.05	4.51	2.93	3.23	7.67	2.92	1.45	1.01	0.81	0.70	0.61	
23	0.54	1.41	4.14	2.64	3.28	7.15	2.68	1.44	1.00	0.81	0.70	0.61	
24	0.52	1.45	3.81	2.61	6.19	6.81	2.71	1.43	1.00	0.81	0.70	0.61	
25	0.52	1.38	3.22	4.15	7.58	6.31	2.76	1.41	0.99	0.80	0.69	0.61	
26	0.51	1.15	2.74	4.69	7.71	6.00	2.74	1.39	0.98	0.80	0.69	0.60	
27	0.51	2.90	2.72	4.72	7.88	5.72	2.58	1.36	0.98	0.80	0.69	0.60	
28	0.49	2.95	3.03	7.82	7.78	5.33	2.46	1.34	0.97	0.79	0.68	0.60	
29	0.57	3.28	3.57	9.95	7.21	5.08	2.32	1.32	0.96	0.78		0.60	
30	0.74	2.69	3.77	9.95	6.58	4.77	2.24	1.31	0.95	0.78		0.59	
31		1.74		9.15	6.10		2.20		0.94	0.77		0.59	
MEAN	0.67	1.28	2.33	3.19	4.66	7.44	3.04	1.68	1.10	0.85	0.73	0.66	
MAX	1.07	3.28	5.00	9.95	8.33	11.14	4.38	2.18	1.29	0.94	0.79	0.73	11.14
MIN	0.49	0.57	0.86	1.16	1.97	4.77	2.20	1.31	0.94	0.77	0.68	0.59	0.49

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.23 M (A.D), AT 18.00 HOURS, ON SEP 10, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 4340 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.9	5.0	18.7	134.3	433.3	228.7	145.9	48.4	20.2	11.5	7.4	5.4	
2	6.6	3.9	13.7	133.8	378.6	227.2	127.7	44.2	19.7	11.2	7.2	6.4	
3	4.2	3.6	11.2	99.9	358.4	275.0	117.3	42.4	19.5	11.2	7.2	6.6	
4	6.2	7.0	9.5	69.8	336.8	278.2	108.5	39.4	19.2	11.0	7.2	6.2	
5	7.4	18.7	12.5	47.0	259.0	271.8	101.7	37.9	18.7	10.7	7.2	5.8	
6	5.4	30.1	12.5	40.9	204.0	277.4	94.5	37.6	18.5	10.5	7.0	5.8	
7	5.4	17.5	10.7	31.3	158.0	645.5	89.1	37.0	18.2	10.5	7.4	5.8	
8	5.8	10.7	9.5	28.3	115.6	721.7	86.9	36.4	18.0	10.2	7.2	5.6	
9	14.7	7.2	9.5	27.7	86.0	738.0	88.7	36.7	17.5	10.2	7.8	5.6	
10	13.2	14.5	10.0	27.5	70.6	800.5	88.2	39.7	16.7	10.0	7.4	6.4	
11	7.8	15.5	14.0	25.0	62.6	716.7	89.6	37.3	16.5	9.7	7.4	6.4	
12	5.8	16.7	18.7	21.0	54.6	586.4	83.7	33.4	16.0	9.7	7.2	6.4	
13	4.8	12.7	30.7	20.5	49.9	465.0	79.2	31.9	15.7	9.2	7.0	6.6	
14	4.0	10.0	24.7	20.0	44.5	433.1	75.4	30.4	15.5	9.2	6.8	6.6	
15	3.7	20.2	40.0	19.5	42.4	357.5	69.8	29.8	15.2	9.0	6.6	6.4	
16	12.0	11.5	51.6	18.7	40.3	306.2	67.0	28.9	15.0	8.7	6.6	6.2	
17	10.7	6.8	65.8	18.0	45.4	281.4	66.6	27.7	14.7	8.7	6.4	5.8	
18	4.4	5.4	108.5	17.0	47.8	319.0	69.8	27.0	14.5	8.7	6.2	5.4	
19	5.6	5.8	98.9	19.7	45.4	384.3	78.3	26.5	15.2	8.5	6.2	5.0	
20	4.4	9.2	133.2	21.5	39.1	431.1	75.4	25.7	13.7	8.5	6.2	4.8	
21	3.7	9.7	184.0	40.3	63.0	421.0	78.8	25.2	13.7	8.2	6.0	4.4	
22	3.6	14.2	193.0	74.2	87.3	396.6	73.8	24.2	13.2	8.2	6.0	4.2	
23	3.2	23.2	132.7	62.6	89.6	348.5	64.2	24.0	13.0	8.2	6.0	4.2	
24	2.9	24.2	114.5	61.4	270.2	319.8	65.4	23.7	13.0	8.2	6.0	4.2	
25	2.9	22.5	86.9	133.2	388.1	279.8	67.4	23.2	12.7	8.0	5.8	4.2	
26	2.8	16.7	66.6	163.8	400.4	255.0	66.6	22.7	12.5	8.0	5.8	4.0	
27	2.8	73.0	65.8	165.8	417.0	234.0	60.2	22.0	12.5	8.0	5.8	4.0	
28	2.5	78.0	78.3	411.0	407.1	206.1	55.4	21.5	12.2	7.8	5.6	4.0	
29	3.6	89.6	102.6	651.7	353.9	189.2	50.2	21.0	12.0	7.6		4.0	
30	6.8	64.8	112.5	651.7	301.4	169.0	47.4	20.7	11.7	7.6		3.9	
31		32.2		482.9	263.0		46.0		11.5	7.4		3.9	
TOTAL	170.8	676.9	1797.8	3709.6	5913.3	11563.7	2478.7	923.5	476.2	284.1	186.6	164.2	28345.4 CMSDAY
MEAN	5.7	21.8	59.9	119.7	190.8	385.5	80.0	30.8	15.4	9.2	6.7	5.3	77.7 CMS
MAX	14.7	89.6	184.0	651.7	433.3	800.5	145.9	48.4	20.2	11.5	7.8	6.6	800.5 CMS
MIN	2.5	3.6	9.5	17.0	39.1	169.0	46.0	20.7	11.5	7.4	5.6	3.9	2.5 CMS
RUNOFF	14.76	58.48	155.33	320.51	510.91	999.10	214.16	79.79	41.14	24.55	16.12	14.19	2449.04 MCM

MOMENTARY PEAK 811.90 CMS, AT 11.23 M (A.D), AT 18.00 HOURS, ON SEP 10, 1980
RUNOFF YIELD 17.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 187.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAM WA AT BAN HAT KHAO SAN, NAN (N.42)

LOCATION — LAT. 18°-34'-08" N., LONG. 100°-52'-28" E., ON RIGHT BANK AT BAN HAT KHAO SAN, TAMBON LAI NAN, AMPHOE SA, NAN.

DRAINAGE AREA — 2,107 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — TOP OF THE GAGE SITE.

ELEVATION — +11.892 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1972 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

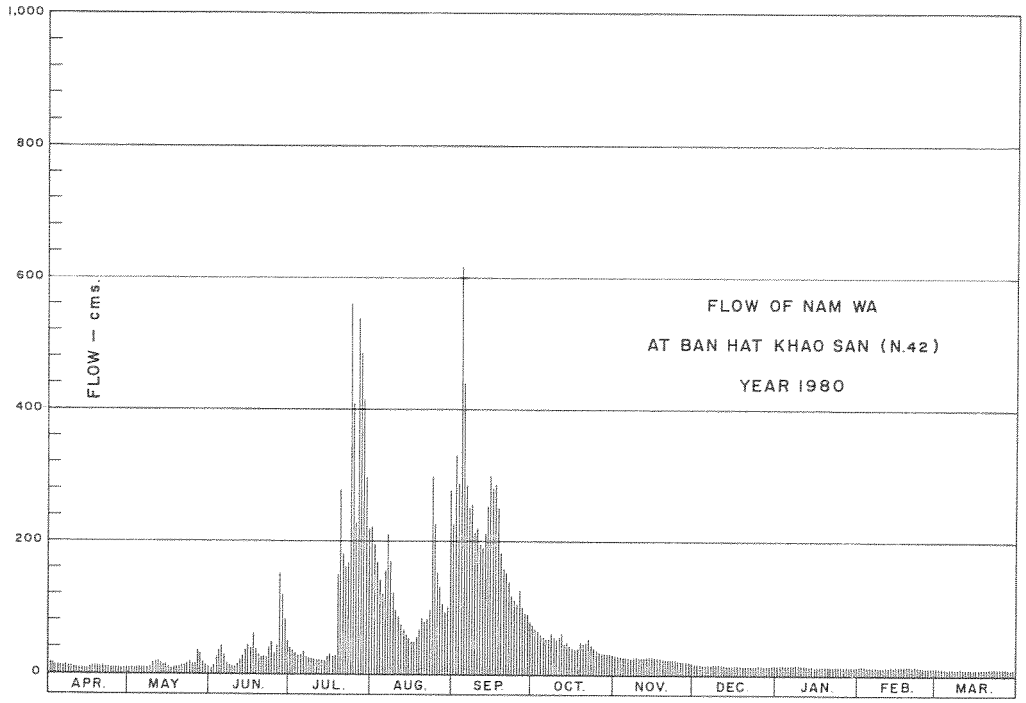
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 86 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.07	0.93	1.02	1.63	3.68	3.69	2.03	1.40	1.11	1.11	1.07	1.04	
2	1.12	0.91	1.02	1.53	3.30	4.50	1.96	1.38	1.11	1.11	1.07	1.03	
3	1.09	0.93	1.26	1.42	3.09	4.18	1.93	1.35	1.11	1.11	1.07	1.03	
4	1.06	0.93	1.55	1.35	2.88	6.00	1.84	1.34	1.10	1.10	1.07	1.02	
5	1.03	0.95	1.58	1.31	2.58	4.91	1.81	1.34	1.10	1.10	1.07	1.01	
6	1.02	0.98	1.28	1.49	2.98	4.20	1.76	1.34	1.10	1.10	1.06	1.01	
7	1.01	0.98	1.13	1.35	3.58	3.88	1.73	1.33	1.10	1.10	1.06	1.01	
8	1.03	0.95	1.08	1.29	2.82	3.93	1.89	1.33	1.10	1.10	1.06	1.01	
9	1.06	0.95	1.06	1.27	2.49	3.60	1.79	1.38	1.09	1.09	1.06	1.01	
10	1.01	1.13	1.04	1.25	2.33	3.67	1.72	1.33	1.09	1.09	1.06	1.01	
11	0.98	1.13	1.07	1.23	2.23	3.43	1.74	1.33	1.09	1.09	1.05	1.02	
12	0.96	1.20	1.16	1.26	2.08	3.37	1.86	1.33	1.09	1.09	1.05	1.02	
13	0.95	1.18	1.35	1.22	1.94	3.52	1.69	1.33	1.08	1.08	1.05	1.02	
14	0.95	1.05	1.45	1.23	1.90	3.92	1.71	1.34	1.08	1.08	1.05	1.02	
15	0.95	1.14	1.63	1.28	1.78	4.29	1.61	1.32	1.08	1.08	1.05	1.02	
16	0.96	1.01	1.56	1.42	1.75	4.12	1.58	1.31	1.08	1.08	1.07	1.02	
17	1.07	0.97	1.85	1.36	1.70	4.20	1.57	1.30	1.08	1.08	1.07	1.02	
18	1.04	0.98	1.53	1.31	1.75	3.88	1.56	1.29	1.08	1.08	1.07	1.02	
19	1.00	1.06	1.38	2.76	2.07	3.38	1.71	1.29	1.08	1.08	1.07	1.02	
20	0.99	1.00	1.30	4.12	2.14	3.07	1.65	1.27	1.08	1.08	1.07	1.02	
21	0.97	1.05	1.35	3.30	2.11	2.96	1.62	1.26	1.08	1.08	1.07	1.02	
22	1.01	1.07	1.25	3.06	2.20	2.85	1.78	1.25	1.08	1.08	1.08	1.02	
23	1.00	1.11	1.45	3.11	2.27	2.61	1.62	1.24	1.08	1.08	1.07	1.01	
24	0.99	1.19	1.70	5.76	4.27	2.52	1.54	1.23	1.07	1.07	1.07	1.01	
25	0.97	1.12	1.40	4.58	3.36	2.40	1.51	1.23	1.07	1.07	1.06	1.01	
26	0.97	1.10	1.55	3.73	2.96	2.68	1.46	1.22	1.07	1.07	1.06	1.01	
27	0.95	1.47	2.98	5.66	2.69	2.35	1.44	1.21	1.07	1.07	1.06	1.01	
28	0.94	1.39	2.59	5.29	2.45	2.27	1.42	1.21	1.07	1.07	1.05	1.01	
29	0.95	1.19	2.00	4.80	2.28	2.28	1.40	1.20	1.07	1.07		1.00	
30	0.95	1.10	1.69	4.13	2.37	2.10	1.40	1.20	1.07	1.07		1.00	
31		1.05		3.64	4.13		1.40		1.07	1.07		1.00	
MEAN	1.00	1.07	1.48	2.52	2.59	3.49	1.67	1.30	1.08	1.08	1.06	1.02	
MAX	1.12	1.47	2.98	5.76	4.27	6.00	2.03	1.40	1.11	1.11	1.08	1.04	6.00
MIN	0.94	0.91	1.02	1.22	1.70	2.10	1.40	1.20	1.07	1.07	1.05	1.00	0.91

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.54 M (A.D), AT 20.00 HOURS, ON JUL 24, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.54 M (A.D)
LEFT BANK ELEVATION 11.27 M (A.D)
RIGHT BANK ELEVATION 11.50 M (A.D), DRAINAGE AREA 2107 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.50	8.25	11.00	45.25	225.00	226.25	75.25	31.00	15.50	15.50	13.50	12.00	
2	16.00	7.75	11.00	38.80	185.00	333.00	70.00	29.90	15.50	15.50	13.50	11.50	
3	14.50	8.25	23.30	32.20	164.55	287.50	67.75	28.25	15.50	15.50	13.50	11.50	
4	13.00	8.25	40.00	28.25	145.20	617.00	61.00	27.70	15.00	15.00	13.50	11.00	
5	11.50	8.75	41.80	26.05	119.30	398.15	58.75	27.70	15.00	15.00	13.50	10.50	
6	11.00	9.50	24.40	36.40	154.20	290.00	55.00	27.70	15.00	15.00	13.00	10.50	
7	10.50	9.50	16.50	28.25	213.00	250.00	52.75	27.15	15.00	15.00	13.00	10.50	
8	11.50	8.75	14.00	24.95	139.80	256.25	64.75	27.15	15.00	15.00	13.00	10.50	
9	13.00	8.75	13.00	23.85	111.65	215.00	57.25	29.90	14.50	14.50	13.00	10.50	
10	10.50	16.50	12.00	22.75	98.40	223.75	52.00	27.15	14.50	14.50	13.00	10.50	
11	9.50	16.50	13.50	21.65	90.40	198.00	53.50	27.15	14.50	14.50	12.50	11.00	
12	9.00	20.00	18.00	23.30	79.00	192.00	62.50	27.15	14.50	14.50	12.50	11.00	
13	8.75	19.00	28.25	21.10	68.50	207.00	49.75	27.15	14.00	14.00	12.50	11.00	
14	8.75	12.50	34.00	21.65	65.50	255.00	51.25	27.70	14.00	14.00	12.50	11.00	
15	8.75	17.00	45.25	24.40	56.50	302.60	43.75	26.60	14.00	14.00	12.50	11.00	
16	9.00	10.50	40.60	32.20	54.25	280.00	41.80	26.05	14.00	14.00	13.50	11.00	
17	13.50	9.25	61.75	28.80	50.50	290.00	41.20	25.50	14.00	14.00	13.50	11.00	
18	12.00	9.50	38.80	26.05	54.25	250.00	40.60	24.95	14.00	14.00	13.50	11.00	
19	10.00	13.00	29.90	134.60	78.25	193.00	51.25	24.95	14.00	14.00	13.50	11.00	
20	9.75	10.00	25.50	280.00	83.50	162.65	46.75	23.85	14.00	14.00	13.50	11.00	
21	9.25	12.50	28.25	185.00	81.25	152.40	44.50	23.30	14.00	14.00	13.50	11.00	
22	10.50	13.50	22.75	161.70	88.00	142.50	56.50	22.75	14.00	14.00	14.00	11.00	
23	10.00	15.50	34.00	166.45	93.60	121.85	44.50	22.20	14.00	14.00	13.50	10.50	
24	9.75	19.50	50.50	561.40	299.80	114.20	39.40	21.65	13.50	13.50	13.50	10.50	
25	9.25	16.00	31.00	345.00	191.00	104.00	37.60	21.65	13.50	13.50	13.00	10.50	
26	9.25	15.00	40.00	231.25	152.40	127.80	34.60	21.10	13.50	13.50	13.00	10.50	
27	8.75	35.20	154.20	539.90	128.65	100.00	33.40	20.55	13.50	13.50	13.00	10.50	
28	8.50	30.45	120.15	466.65	108.25	93.60	32.20	20.55	13.50	13.50	12.50	10.50	
29	8.75	19.50	73.00	380.00	94.40	94.40	31.00	20.00	13.50	13.50		10.00	
30	8.75	15.00	49.75	281.25	101.60	80.50	31.00	20.00	13.50	13.50		10.00	
31		12.50		220.00	281.25		31.00		13.50	13.50		10.00	
TOTAL	316.75	436.15	1146.15	4459.10	3856.95	6558.40	1512.55	758.40	441.50	441.50	368.50	334.00	20629.94 CMSDAY
MEAN	10.56	14.07	38.20	143.84	124.42	218.61	48.79	25.28	14.24	14.24	13.16	10.77	56.52 CMS
MAX	16.00	35.20	154.20	561.40	299.80	617.00	75.25	31.00	15.50	15.50	14.00	12.00	617.00 CMS
MIN	8.50	7.75	11.00	21.10	50.50	80.50	31.00	20.00	13.50	13.50	12.50	10.00	7.75 CMS
RUNOFF	27.367	37.683	99.027	385.266	333.240	566.645	130.684	65.526	38.146	38.146	31.838	28.858	1782.426 MCM

MOMENTARY PEAK 1020.50 CMS, AT 7.54 M (A.D), AT 20.00 HOURS, ON JUL 24, 1980

RUNOFF YIELD 26.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 484.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAM HAO AT BAN NA PHUAK, NAN (N.44)

LOCATION — LAT. 19°-05'-06" N., LONG. 100°-50'-59" E., ON RIGHT BANK DOWNSTREAM OF THE BRIDGE, ALONG THA WANG PHA-SILA PHET ROAD AT BAN NA PHUAK, TAMBON YOM, AMPHOE THA WANG PHA, NAN.

DRAINAGE AREA — 41 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR B.M.5 OF HIGHWAYS DEPARTMENT.

ELEVATION — +6.752 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 11 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

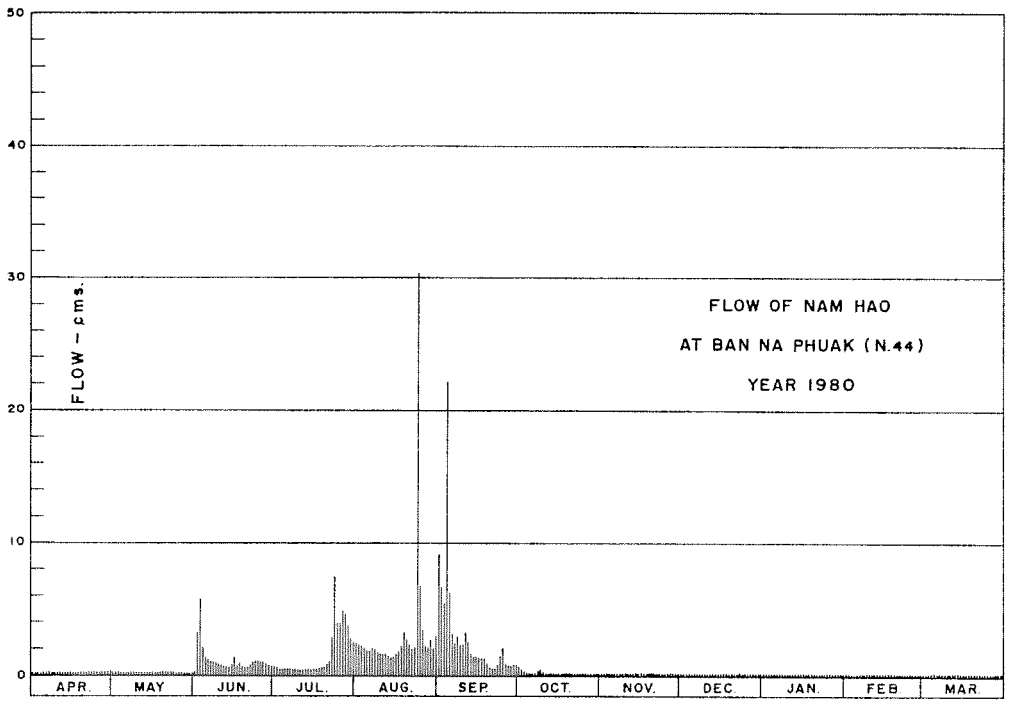
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.33	0.47	0.49	0.69	1.11	0.49	0.26	0.24	0.18	0.15	0.10	
2	0.33	0.33	0.80	0.48	0.68	0.96	0.46	0.28	0.24	0.17	0.15	0.10	
3	0.33	0.33	0.94	0.46	0.67	0.90	0.43	0.28	0.23	0.16	0.15	0.09	
4	0.32	0.33	0.62	0.47	0.65	1.59	0.42	0.27	0.23	0.17	0.15	0.10	
5	0.35	0.34	0.57	0.46	0.63	0.89	0.41	0.27	0.23	0.18	0.15	0.10	
6	0.33	0.35	0.54	0.47	0.62	0.75	0.37	0.27	0.23	0.18	0.17	0.10	
7	0.34	0.37	0.52	0.45	0.66	0.69	0.36	0.27	0.23	0.16	0.16	0.10	
8	0.33	0.35	0.52	0.46	0.64	0.74	0.42	0.27	0.23	0.17	0.16	0.10	
9	0.34	0.34	0.51	0.45	0.63	0.66	0.47	0.27	0.22	0.19	0.15	0.10	
10	0.35	0.42	0.51	0.46	0.62	0.64	0.42	0.27	0.23	0.19	0.15	0.10	
11	0.33	0.37	0.50	0.46	0.61	0.77	0.37	0.27	0.23	0.20	0.15	0.10	
12	0.33	0.41	0.48	0.45	0.62	0.69	0.35	0.27	0.23	0.18	0.15	0.10	
13	0.33	0.40	0.48	0.46	0.59	0.62	0.36	0.26	0.24	0.17	0.15	0.10	
14	0.32	0.38	0.47	0.45	0.58	0.59	0.38	0.27	0.23	0.17	0.15	0.10	
15	0.33	0.38	0.48	0.45	0.57	0.58	0.31	0.27	0.22	0.18	0.15	0.10	
16	0.35	0.37	0.56	0.45	0.62	0.58	0.32	0.27	0.21	0.17	0.14	0.10	
17	0.38	0.38	0.49	0.46	0.63	0.56	0.34	0.27	0.20	0.16	0.14	0.10	
18	0.36	0.37	0.52	0.46	0.64	0.57	0.34	0.27	0.21	0.17	0.14	0.10	
19	0.35	0.38	0.49	0.47	0.77	0.53	0.32	0.27	0.20	0.18	0.14	0.10	
20	0.35	0.38	0.48	0.48	0.69	0.49	0.37	0.26	0.19	0.19	0.14	0.10	
21	0.35	0.39	0.49	0.48	0.69	0.47	0.35	0.27	0.19	0.18	0.12	0.10	
22	0.35	0.40	0.50	0.53	0.65	0.45	0.33	0.26	0.19	0.19	0.12	0.10	
23	0.34	0.40	0.54	0.56	0.64	0.48	0.33	0.27	0.18	0.17	0.11	0.10	
24	0.36	0.41	0.55	1.02	1.80	0.57	0.32	0.27	0.18	0.16	0.12	0.09	
25	0.36	0.39	0.55	0.81	1.02	0.66	0.30	0.26	0.18	0.16	0.11	0.09	
26	0.35	0.39	0.53	0.80	0.73	0.53	0.28	0.26	0.18	0.16	0.10	0.07	
27	0.34	0.53	0.54	0.88	0.66	0.48	0.27	0.26	0.18	0.16	0.10	0.07	
28	0.33	0.52	0.52	0.86	0.63	0.51	0.25	0.26	0.18	0.15	0.10	0.08	
29	0.33	0.52	0.51	0.78	0.71	0.50	0.25	0.26	0.18	0.15		0.07	
30	0.33	0.48	0.50	0.71	0.63	0.52	0.26	0.25	0.18	0.15		0.08	
31		0.48		0.70	0.73		0.27		0.18	0.15		0.09	
MEAN	0.34	0.39	0.54	0.56	0.70	0.67	0.35	0.27	0.21	0.17	0.14	0.09	
MAX	0.38	0.53	0.94	1.02	1.80	1.59	0.49	0.28	0.24	0.20	0.17	0.10	1.80
MIN	0.32	0.33	0.47	0.45	0.57	0.45	0.25	0.25	0.18	0.15	0.10	0.07	0.07

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.00 M (A.D), AT 9.00 HOURS, ON AUG 24, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.10 M (A.D)

LEFT BANK ELEVATION — 5.91 M (A.D)

RIGHT BANK ELEVATION — 6.06 M (A.D), DRAINAGE AREA 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.04	0.60	0.74	2.50	9.11	0.74	0.01	0.00	0.00	0.00	0.00	
2	0.04	0.04	3.80	0.67	2.40	6.32	0.53	0.01	0.00	0.00	0.00	0.00	
3	0.04	0.04	3.98	0.53	2.30	5.30	0.31	0.01	0.00	0.00	0.00	0.00	
4	0.03	0.04	1.80	0.60	2.10	22.07	0.24	0.01	0.00	0.00	0.00	0.00	
5	0.05	0.05	1.36	0.53	1.90	5.15	0.17	0.01	0.00	0.00	0.00	0.00	
6	0.04	0.05	1.13	0.60	1.80	3.20	0.07	0.01	0.00	0.00	0.00	0.00	
7	0.05	0.07	0.97	0.45	2.20	2.50	0.06	0.01	0.00	0.00	0.00	0.00	
8	0.04	0.05	0.97	0.53	2.00	3.08	0.24	0.01	0.00	0.00	0.00	0.00	
9	0.05	0.05	0.89	0.45	1.90	2.20	0.60	0.01	0.00	0.00	0.00	0.00	
10	0.05	0.24	0.89	0.53	1.80	2.00	0.24	0.01	0.00	0.00	0.00	0.00	
11	0.04	0.07	0.81	0.53	1.70	3.44	0.07	0.01	0.00	0.00	0.00	0.00	
12	0.04	0.17	0.67	0.45	1.80	2.50	0.05	0.01	0.00	0.00	0.00	0.00	
13	0.04	0.10	0.67	0.53	1.52	1.80	0.06	0.01	0.00	0.00	0.00	0.00	
14	0.03	0.08	0.60	0.45	1.44	1.52	0.08	0.01	0.00	0.00	0.00	0.00	
15	0.04	0.08	0.67	0.45	1.36	1.44	0.02	0.01	0.00	0.00	0.00	0.00	
16	0.05	0.07	1.28	0.45	1.80	1.44	0.03	0.01	0.00	0.00	0.00	0.00	
17	0.08	0.08	0.74	0.53	1.90	1.28	0.05	0.01	0.00	0.00	0.00	0.00	
18	0.06	0.07	0.97	0.53	2.00	1.36	0.05	0.01	0.00	0.00	0.00	0.00	
19	0.05	0.08	0.74	0.60	3.44	1.05	0.03	0.01	0.00	0.00	0.00	0.00	
20	0.05	0.08	0.67	0.67	2.50	0.74	0.07	0.01	0.00	0.00	0.00	0.00	
21	0.05	0.09	0.74	0.67	2.50	0.60	0.05	0.01	0.00	0.00	0.00	0.00	
22	0.05	0.10	0.81	1.05	2.10	0.45	0.04	0.01	0.00	0.00	0.00	0.00	
23	0.05	0.10	1.13	1.28	2.00	0.67	0.04	0.01	0.00	0.00	0.00	0.00	
24	0.06	0.17	1.20	7.38	30.40	1.36	0.03	0.01	0.00	0.00	0.00	0.00	
25	0.06	0.09	1.20	3.95	7.38	2.20	0.01	0.01	0.00	0.00	0.00	0.00	
26	0.05	0.09	1.05	3.80	2.96	1.05	0.01	0.01	0.00	0.00	0.00	0.00	
27	0.05	1.05	1.13	5.00	2.20	0.67	0.01	0.01	0.00	0.00	0.00	0.00	
28	0.04	0.97	0.97	4.70	1.90	0.89	0.01	0.01	0.00	0.00	0.00	0.00	
29	0.04	0.97	0.89	3.56	2.72	0.81	0.01	0.01	0.00	0.00		0.00	
30	0.04	0.67	0.81	2.72	1.90	0.97	0.01	0.01	0.00	0.00		0.00	
31		0.67		2.60	2.96		0.01		0.00	0.00		0.00	
TOTAL	1.40	6.52	36.14	47.53	99.38	87.17	3.94	0.30	0.00	0.00	0.00	0.00	282.38 CMSDAY
MEAN	0.05	0.21	1.20	1.53	3.21	2.91	0.13	0.01	0.00	0.00	0.00	0.00	0.77 CMS
MAX	0.08	1.05	5.98	7.38	30.40	22.07	0.74	0.01	0.00	0.00	0.00	0.00	30.40 CMS
MIN	0.03	0.04	0.60	0.45	1.36	0.85	0.01	0.01	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.121	0.563	3.122	4.107	8.586	7.531	0.340	0.026	0.000	0.000	0.000	0.000	24.398 MCM

MOMENTARY PEAK 39.80 CMS, AT 2.00 H (A.D), AT 9.00 HOURS, ON AUG 24, 1980

RUNOFF YIELD 18.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 970.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAM KHUN AT BAN HUA NAM, NAN (N.47)

LOCATION — LAT. 19°-08'-36" N., LONG. 100°-57'-08" E., ON LEFT BANK NEAR WAT PA MUAT AT BAN HUA NAM, AMPHOE PUA, NAN.

DRAINAGE AREA — 35 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE GAGE OBSERVER'S HOUSE.

ELEVATION — +15.652 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

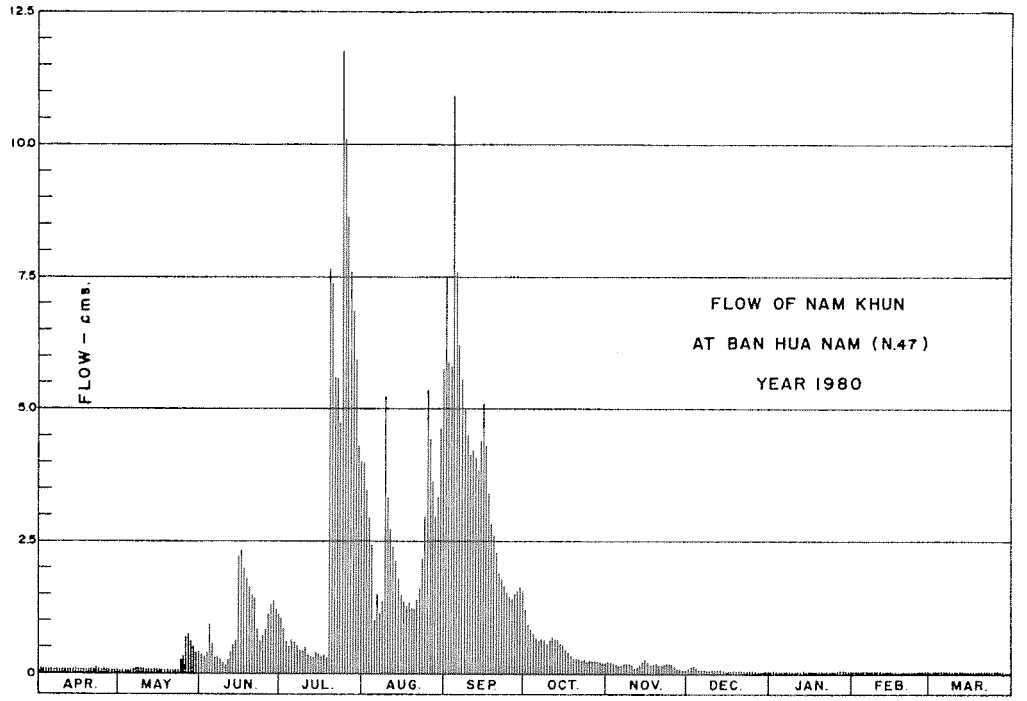
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 11 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.26	0.40	0.55	0.95	1.22	0.59	0.36	0.29	0.24	0.24	0.23	
2	0.30	0.28	0.39	0.51	0.86	1.11	0.55	0.35	0.32	0.25	0.23	0.23	
3	0.28	0.27	0.42	0.47	0.83	1.10	0.53	0.34	0.32	0.24	0.23	0.24	
4	0.27	0.26	0.54	0.45	0.74	1.41	0.51	0.33	0.30	0.24	0.24	0.23	
5	0.29	0.27	0.38	0.47	0.55	1.15	0.50	0.34	0.28	0.24	0.23	0.22	
6	0.29	0.28	0.39	0.47	0.64	1.12	0.48	0.33	0.27	0.25	0.23	0.22	
7	0.28	0.30	0.38	0.45	0.58	1.08	0.49	0.35	0.26	0.24	0.24	0.22	
8	0.29	0.31	0.36	0.43	0.61	1.04	0.49	0.34	0.25	0.26	0.23	0.22	
9	0.30	0.31	0.34	0.43	1.06	0.98	0.46	0.34	0.25	0.25	0.23	0.21	
10	0.28	0.29	0.33	0.44	0.84	0.96	0.47	0.34	0.25	0.23	0.22	0.23	
11	0.27	0.27	0.36	0.41	0.81	0.97	0.50	0.30	0.26	0.25	0.23	0.22	
12	0.29	0.26	0.44	0.39	0.77	0.96	0.49	0.31	0.27	0.23	0.24	0.22	
13	0.28	0.28	0.47	0.39	0.73	0.93	0.49	0.33	0.25	0.24	0.24	0.23	
14	0.27	0.28	0.49	0.41	0.68	0.98	0.47	0.36	0.24	0.24	0.23	0.23	
15	0.26	0.27	0.75	0.41	0.64	1.05	0.46	0.37	0.23	0.24	0.23	0.21	
16	0.27	0.27	0.76	0.39	0.62	0.97	0.44	0.36	0.24	0.23	0.22	0.23	
17	0.26	0.27	0.71	0.40	0.61	0.87	0.43	0.33	0.25	0.25	0.23	0.22	
18	0.27	0.29	0.69	0.39	0.62	0.81	0.41	0.34	0.26	0.25	0.24	0.23	
19	0.28	0.28	0.67	1.23	0.60	0.80	0.38	0.35	0.23	0.25	0.25	0.23	
20	0.28	0.28	0.64	1.21	0.60	0.76	0.36	0.33	0.22	0.20	0.24	0.22	
21	0.27	0.28	0.63	1.09	0.63	0.70	0.38	0.34	0.24	0.22	0.23	0.21	
22	0.26	0.29	0.51	1.10	0.65	0.69	0.37	0.33	0.25	0.23	0.22	0.23	
23	0.28	0.36	0.48	1.02	0.74	0.67	0.37	0.35	0.24	0.23	0.21	0.22	
24	0.28	0.40	0.51	1.45	0.88	0.65	0.35	0.34	0.26	0.23	0.22	0.22	
25	0.26	0.48	0.53	1.34	1.07	0.63	0.37	0.34	0.26	0.24	0.23	0.23	
26	0.27	0.51	0.55	1.28	0.95	0.63	0.36	0.32	0.25	0.25	0.22	0.22	
27	0.28	0.49	0.61	1.23	0.89	0.65	0.36	0.31	0.23	0.25	0.22	0.22	
28	0.27	0.46	0.62	1.16	0.84	0.65	0.36	0.27	0.23	0.26	0.23	0.23	
29	0.27	0.45	0.60	1.08	0.86	0.66	0.36	0.29	0.23	0.24		0.23	
30	0.26	0.42	0.58	0.96	0.99	0.65	0.35	0.29	0.25	0.23		0.21	
31		0.42		0.95	1.08		0.35		0.23	0.22		0.20	
MEAN	0.28	0.33	0.52	0.74	0.77	0.89	0.43	0.33	0.26	0.24	0.23	0.22	
MAX	0.30	0.51	0.76	1.45	1.08	1.41	0.59	0.37	0.32	0.26	0.25	0.24	1.45
MIN	0.26	0.26	0.33	0.39	0.55	0.63	0.35	0.27	0.22	0.20	0.21	0.20	0.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.61 M (A.D), AT 6.00 HOURS, ON JUL 24, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.06 M (A.D)
LEFT BANK ELEVATION 2.61 M (A.D)
RIGHT BANK ELEVATION 2.09 M (A.D), DRAINAGE AREA 35 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.07	0.35	0.96	4.00	7.49	1.17	0.25	0.09	0.05	0.05	0.04	
2	0.10	0.08	0.32	0.75	3.15	5.88	0.96	0.22	0.15	0.06	0.04	0.04	
3	0.08	0.08	0.42	0.59	2.88	5.74	0.86	0.20	0.15	0.05	0.04	0.05	
4	0.08	0.07	0.91	0.52	2.17	10.87	0.75	0.18	0.10	0.05	0.05	0.04	
5	0.09	0.08	0.30	0.59	0.96	6.45	0.70	0.20	0.08	0.05	0.04	0.04	
6	0.09	0.08	0.32	0.59	1.48	6.02	0.63	0.18	0.08	0.06	0.04	0.04	
7	0.08	0.10	0.30	0.52	1.12	5.49	0.66	0.22	0.07	0.05	0.05	0.04	
8	0.09	0.12	0.25	0.45	1.28	5.00	0.66	0.20	0.07	0.07	0.04	0.04	
9	0.10	0.12	0.20	0.45	5.24	4.30	0.56	0.20	0.06	0.06	0.04	0.03	
10	0.08	0.09	0.18	0.49	2.97	4.10	0.59	0.20	0.06	0.04	0.04	0.04	
11	0.08	0.08	0.25	0.38	2.71	4.20	0.70	0.10	0.07	0.06	0.04	0.04	
12	0.09	0.07	0.49	0.32	2.39	4.10	0.66	0.12	0.08	0.04	0.05	0.04	
13	0.08	0.08	0.59	0.32	2.09	3.80	0.66	0.18	0.06	0.05	0.05	0.04	
14	0.08	0.08	0.66	0.38	1.74	4.30	0.59	0.25	0.05	0.05	0.04	0.04	
15	0.07	0.08	2.24	0.38	1.48	5.12	0.56	0.27	0.04	0.05	0.04	0.03	
16	0.08	0.08	2.32	0.32	1.35	4.20	0.49	0.25	0.05	0.04	0.04	0.04	
17	0.07	0.08	1.94	0.35	1.28	3.24	0.45	0.18	0.06	0.06	0.04	0.04	
18	0.08	0.09	1.80	0.32	1.35	2.71	0.38	0.20	0.07	0.06	0.05	0.04	
19	0.08	0.08	1.67	7.65	1.22	2.62	0.30	0.22	0.04	0.06	0.06	0.04	
20	0.08	0.08	1.48	7.32	1.22	2.32	0.25	0.18	0.04	0.02	0.05	0.04	
21	0.08	0.08	1.42	5.62	1.42	1.87	0.30	0.20	0.05	0.04	0.04	0.03	
22	0.07	0.09	0.75	5.74	1.54	1.80	0.27	0.18	0.06	0.04	0.04	0.04	
23	0.08	0.25	0.63	4.75	2.17	1.67	0.27	0.22	0.05	0.04	0.03	0.04	
24	0.08	0.35	0.75	11.73	3.32	1.54	0.22	0.20	0.07	0.04	0.04	0.04	
25	0.07	0.63	0.86	9.54	5.37	1.42	0.27	0.20	0.07	0.05	0.04	0.04	
26	0.08	0.75	0.96	8.47	4.00	1.42	0.25	0.15	0.06	0.06	0.04	0.04	
27	0.08	0.66	1.28	7.65	3.41	1.54	0.25	0.12	0.04	0.06	0.04	0.04	
28	0.08	0.56	1.35	6.59	2.97	1.54	0.25	0.08	0.04	0.07	0.04	0.04	
29	0.08	0.52	1.22	5.49	3.15	1.61	0.25	0.09	0.04	0.05		0.04	
30	0.07	0.42	1.12	4.10	4.40	1.54	0.22	0.09	0.06	0.04		0.03	
31		0.42		4.00	5.49		0.22		0.04	0.04		0.02	
TOTAL	2.43	6.42	27.33	97.33	79.32	113.90	15.35	5.53	2.05	1.56	1.20	1.19	353.61 CMSDAY
MEAN	0.08	0.21	0.91	3.14	2.56	3.80	0.50	0.18	0.07	0.05	0.04	0.04	0.97 CMS
MAX	0.10	0.75	2.32	11.73	5.49	10.87	1.17	0.27	0.15	0.07	0.06	0.05	11.73 CMS
MIN	0.07	0.07	0.18	0.32	0.96	1.42	0.22	0.08	0.04	0.02	0.03	0.02	0.02 CMS
RUNOFF	0.210	0.555	2.361	8.409	6.853	9.841	1.326	0.478	0.177	0.135	0.104	0.103	30.552 MCM

MOMENTARY PEAK 15.96 CMS, AT 1.61 M (A.D), AT 6.00 HOURS, ON JUL 24, 1980
RUNOFF YIELD 27.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 456.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAM YAO AT BAN NAM YAO, NAN (N.49)

LOCATION — LAT. 18°-59'-29" N., LONG. 100°-56'-32" E., ON RIGHT BANK DOWNSTREAM OF THE BRIDGE OF NAM YAO, ALONG PUA-SILA PHET ROAD AT BAN NAM YAO, AMPHOE PUA, NAN.

DRAINAGE AREA — 155 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — NEAR THE TOP STAFF GAGE.

ELEVATION — +6.052 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

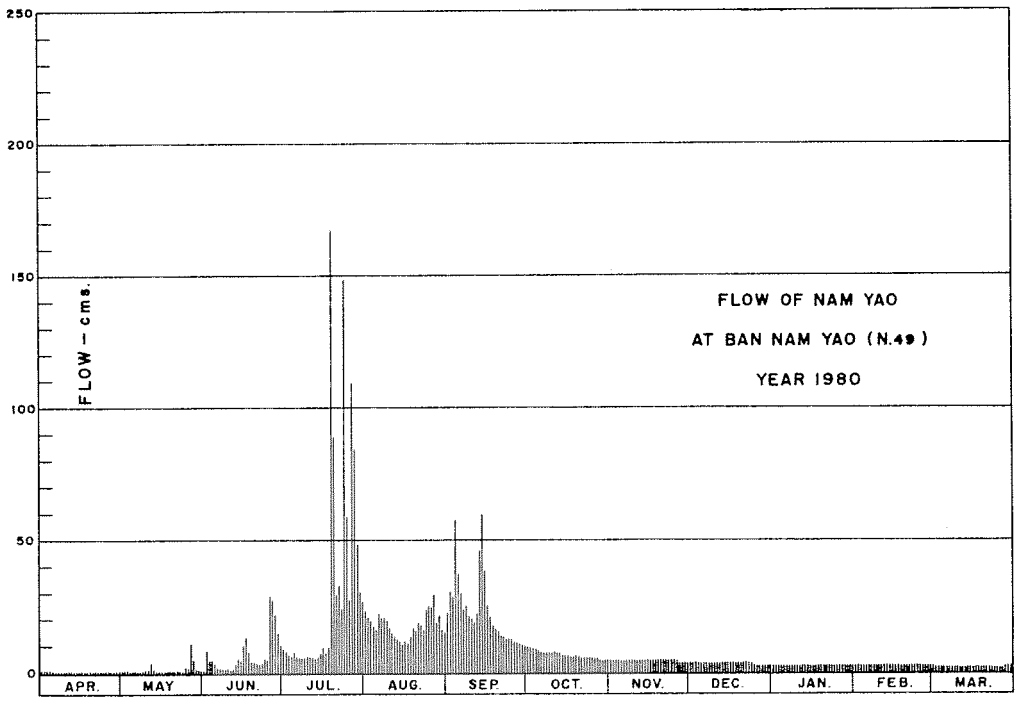
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.78	0.78	0.82	1.09	1.38	1.39	1.10	0.99	0.95	0.90	0.88	0.87	
2	0.78	0.78	1.07	1.05	1.35	1.50	1.10	0.99	0.95	0.90	0.88	0.86	
3	0.78	0.78	0.95	1.02	1.33	1.46	1.09	0.99	0.95	0.90	0.88	0.86	
4	0.78	0.78	0.97	1.00	1.29	1.86	1.08	0.98	0.94	0.90	0.88	0.86	
5	0.78	0.78	0.94	1.05	1.26	1.62	1.08	0.98	0.94	0.90	0.88	0.86	
6	0.78	0.78	0.87	1.00	1.37	1.52	1.07	0.98	0.94	0.90	0.88	0.86	
7	0.78	0.78	0.86	1.00	1.35	1.40	1.06	0.97	0.94	0.90	0.88	0.86	
8	0.78	0.78	0.85	0.99	1.34	1.43	1.06	0.97	0.93	0.90	0.88	0.86	
9	0.78	0.80	0.85	0.99	1.33	1.35	1.06	0.97	0.93	0.90	0.88	0.86	
10	0.78	0.83	0.85	0.99	1.23	1.34	1.06	0.97	0.93	0.90	0.88	0.86	
11	0.78	0.83	0.86	1.01	1.21	1.30	1.06	0.97	0.93	0.90	0.88	0.86	
12	0.78	0.93	0.86	1.00	1.18	1.28	1.05	0.97	0.93	0.90	0.88	0.86	
13	0.78	0.83	0.92	0.99	1.16	1.73	1.05	0.97	0.93	0.90	0.88	0.86	
14	0.78	0.81	0.99	0.99	1.14	1.89	1.04	0.97	0.93	0.90	0.88	0.86	
15	0.78	0.80	0.97	1.06	1.11	1.57	1.02	0.97	0.93	0.90	0.88	0.86	
16	0.78	0.80	1.14	1.10	1.17	1.44	1.02	0.97	0.93	0.90	0.88	0.86	
17	0.78	0.79	1.18	1.05	1.14	1.36	1.02	0.97	0.93	0.90	0.88	0.86	
18	0.78	0.80	0.99	1.08	1.21	1.31	1.00	0.97	0.93	0.89	0.88	0.86	
19	0.78	0.82	0.96	2.68	1.26	1.26	1.04	0.97	0.92	0.88	0.87	0.86	
20	0.78	0.81	0.94	1.59	1.22	1.23	1.02	0.97	0.92	0.88	0.87	0.86	
21	0.78	0.81	0.93	1.48	1.31	1.22	1.02	0.97	0.92	0.88	0.87	0.86	
22	0.78	0.81	0.91	1.55	1.28	1.20	1.01	0.97	0.92	0.88	0.87	0.86	
23	0.78	0.81	0.92	1.40	1.26	1.19	1.01	0.97	0.92	0.88	0.87	0.86	
24	0.78	0.81	1.01	2.57	1.39	1.19	1.00	0.97	0.91	0.88	0.87	0.86	
25	0.78	0.88	1.00	1.66	1.42	1.19	1.00	0.96	0.91	0.88	0.87	0.86	
26	0.78	0.85	1.47	1.46	1.37	1.15	1.00	0.96	0.91	0.88	0.87	0.86	
27	0.78	1.14	1.45	2.31	1.49	1.15	1.00	0.96	0.90	0.88	0.87	0.90	
28	0.78	0.90	1.31	2.00	1.30	1.14	1.00	0.95	0.90	0.88	0.87	0.90	
29	0.78	0.85	1.16	1.51	1.36	1.13	0.99	0.95	0.90	0.88		0.90	
30	0.78	0.83	1.12	1.51	1.26	1.10	0.99	0.95	0.90	0.88		0.90	
31		0.83		1.45	1.21		0.99		0.90	0.88		0.90	
MEAN	0.78	0.83	1.00	1.34	1.28	1.36	1.04	0.97	0.92	0.89	0.88	0.87	
MAX	0.78	1.14	1.47	2.68	1.49	1.89	1.10	0.99	0.95	0.90	0.88	0.90	2.68
MIN	0.78	0.78	0.82	0.99	1.11	1.10	0.99	0.95	0.90	0.88	0.87	0.86	0.78

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.72 M (A.D.), AT 9.00 HOURS, ON JUL 19, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED -0.29 M (A.D.)

LEFT BANK ELEVATION — 9.20 M (A.D.)

RIGHT BANK ELEVATION — 7.05 M (A.D.), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.32	0.93	9.30	22.97	23.48	9.70	5.43	4.37	3.05	2.52	2.25	
2	0.32	0.32	8.50	7.70	21.42	30.25	9.70	5.43	4.37	3.05	2.52	1.99	
3	0.32	0.32	4.37	6.50	20.39	27.75	9.30	5.43	4.37	3.05	2.52	1.99	
4	0.32	0.32	4.90	5.70	18.34	57.56	8.90	5.17	4.11	3.05	2.52	1.99	
5	0.32	0.32	4.11	7.70	16.79	38.03	8.90	5.17	4.11	3.05	2.52	1.99	
6	0.32	0.32	2.25	5.70	22.45	31.50	8.50	5.17	4.11	3.05	2.52	1.99	
7	0.32	0.32	1.99	5.70	21.42	24.00	8.10	4.90	4.11	3.05	2.52	1.99	
8	0.32	0.32	1.72	5.43	20.91	25.87	8.10	4.90	3.84	3.05	2.52	1.99	
9	0.32	0.40	1.72	5.43	20.39	21.42	8.10	4.90	3.84	3.05	2.52	1.99	
10	0.32	1.19	1.72	5.43	15.24	20.91	8.10	4.90	3.84	3.05	2.52	1.99	
11	0.32	1.19	1.99	6.10	14.21	18.85	8.10	4.90	3.84	3.05	2.52	1.99	
12	0.32	3.84	1.99	5.70	12.90	17.82	7.70	4.90	3.84	3.05	2.52	1.99	
13	0.32	1.19	3.58	5.43	12.10	46.44	7.70	4.90	3.84	3.05	2.52	1.99	
14	0.32	0.66	5.43	5.43	11.30	60.44	7.30	4.90	3.84	3.05	2.52	1.99	
15	0.32	0.40	4.90	8.10	10.10	34.62	6.50	4.90	3.84	3.05	2.52	1.99	
16	0.32	0.40	11.30	9.70	12.50	26.50	6.50	4.90	3.84	3.05	2.52	1.99	
17	0.32	0.36	12.90	7.70	11.30	21.94	6.50	4.90	3.84	3.05	2.52	1.99	
18	0.32	0.40	5.43	8.90	14.21	19.36	5.70	4.90	3.84	2.78	2.52	1.99	
19	0.32	0.93	4.64	167.40	16.79	16.79	7.30	4.90	3.58	2.52	2.25	1.99	
20	0.32	0.66	4.11	35.87	14.73	15.24	6.50	4.90	3.58	2.52	2.25	1.99	
21	0.32	0.66	3.84	29.00	19.36	14.73	6.50	4.90	3.58	2.52	2.25	1.99	
22	0.32	0.66	3.31	33.37	17.82	13.70	6.10	4.90	3.58	2.52	2.25	1.99	
23	0.32	0.66	3.58	24.00	16.79	13.30	6.10	4.90	3.58	2.52	2.25	1.99	
24	0.32	0.66	6.10	148.35	23.48	13.30	5.70	4.90	3.31	2.52	2.25	1.99	
25	0.32	2.52	5.70	41.09	25.25	13.30	5.70	4.64	3.31	2.52	2.25	1.99	
26	0.32	1.72	28.37	27.75	22.45	11.70	5.70	4.64	3.31	2.52	2.25	1.99	
27	0.32	11.30	27.12	109.40	29.62	11.70	5.70	4.64	3.05	2.52	2.25	3.05	
28	0.32	3.05	19.36	71.00	18.85	11.30	5.70	4.37	3.05	2.52	2.25	3.05	
29	0.32	1.72	12.10	30.88	21.94	10.90	5.43	4.37	3.05	2.52		3.05	
30	0.32	1.19	10.50	30.88	16.79	9.70	5.43	4.37	3.05	2.52		3.05	
31		1.19		27.12	14.21		5.43		3.05	2.52		3.05	
TOTAL	9.60	39.51	208.46	897.76	557.02	702.40	220.69	147.03	114.87	87.39	67.86	67.25	3119.84 CMSDAY
MEAN	0.32	1.27	6.95	28.96	17.97	23.41	7.12	4.90	3.71	2.82	2.42	2.17	8.55 CMS
MAX	0.32	11.30	28.37	167.40	29.62	60.44	9.70	5.43	4.37	3.05	2.52	3.05	167.40 CMS
MIN	0.32	0.32	0.93	5.43	10.10	9.70	5.43	4.37	3.05	2.52	2.25	1.99	0.32 CMS
RUNOFF	0.829	3.414	18.011	77.566	48.126	60.687	19.068	12.703	9.925	7.550	5.863	5.810	269.554 MCM

MOMENTARY PEAK ******** CMS, AT 3.72 M (A.D), AT 9.00 HOURS, ON JUL 19, 1980
RUNOFF YIELD 55.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ******** LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAM PUA AT BAN RONG, NAN (N.50)

LOCATION — LAT. 19°-11'-38" N., LONG. 100°-55'-14" E., ON LEFT BANK DOWNSTREAM OF THE BRIDGE OF NAM PUA, ALONG PUA-THUNG CHANG ROAD AT BAN RONG, AMPHOE PUA, NAN.

DRAINAGE AREA — 192 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — AT THE BRIDGE OF NAM PUA.

ELEVATION — +4.361 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

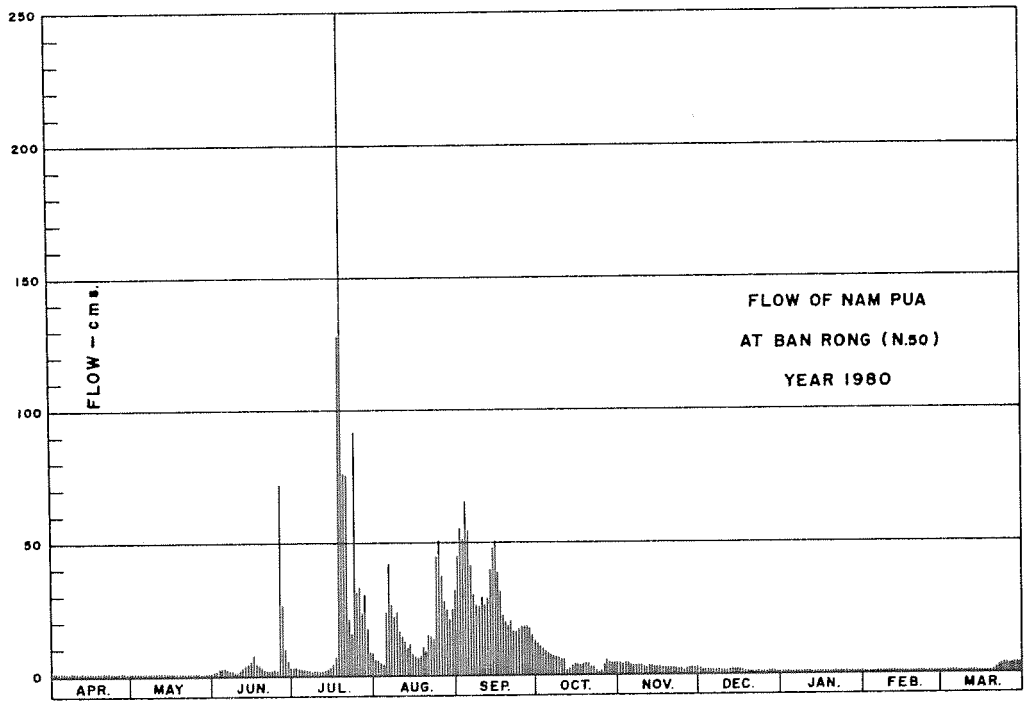
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	0.53	0.69	1.00	1.16	1.29	0.87	1.09	0.84	0.54	0.40	0.37	
2	0.53	0.54	0.76	1.00	1.16	1.39	0.84	1.09	0.78	0.52	0.38	0.37	
3	0.54	0.58	0.82	0.93	1.11	1.34	0.83	1.06	0.72	0.46	0.37	0.38	
4	0.54	0.50	0.93	0.89	1.06	1.48	0.81	1.10	0.64	0.43	0.37	0.51	
5	0.53	0.60	0.95	0.91	0.98	1.38	0.79	1.04	0.69	0.44	0.39	0.53	
6	0.54	0.58	0.85	0.87	1.24	1.22	0.77	1.02	0.68	0.44	0.51	0.50	
7	0.54	0.59	0.74	0.81	1.09	1.12	0.77	1.04	0.66	0.45	0.53	0.51	
8	0.55	0.59	0.64	0.79	1.01	1.07	0.77	1.02	0.66	0.47	0.49	0.51	
9	0.55	0.60	0.64	0.75	1.04	1.05	0.74	1.09	0.65	0.45	0.40	0.46	
10	0.54	0.60	0.66	0.75	0.95	1.10	0.74	1.01	0.65	0.42	0.39	0.37	
11	0.54	0.61	0.81	0.77	0.91	1.07	0.73	0.96	0.66	0.42	0.37	0.38	
12	0.54	0.60	0.98	0.80	0.87	1.08	0.77	0.99	0.66	0.42	0.35	0.39	
13	0.55	0.60	1.03	0.84	0.84	1.20	0.83	1.00	0.86	0.41	0.35	0.40	
14	0.55	0.60	1.10	0.86	0.86	1.30	1.02	0.97	0.79	0.45	0.35	0.38	
15	0.55	0.58	1.08	0.95	0.78	1.34	1.07	0.97	0.79	0.46	0.35	0.39	
16	0.55	0.59	1.24	1.09	0.76	1.22	1.07	0.94	0.78	0.45	0.34	0.40	
17	0.61	0.59	1.12	1.11	0.74	1.24	1.04	0.93	0.76	0.43	0.35	0.38	
18	0.58	0.60	1.06	1.44	0.74	1.03	1.05	0.90	0.70	0.43	0.47	0.40	
19	0.55	0.60	0.96	2.39	0.84	1.00	1.14	0.93	0.67	0.42	0.39	0.51	
20	0.55	0.59	0.88	1.83	0.76	0.95	1.12	0.93	0.56	0.39	0.46	0.57	
21	0.53	0.58	0.80	1.83	0.92	0.99	1.07	0.86	0.57	0.47	0.45	0.80	
22	0.62	0.60	0.79	1.46	0.92	0.95	0.96	0.92	0.55	0.50	0.46	0.87	
23	0.59	0.59	0.80	1.38	0.89	0.92	0.88	0.84	0.54	0.47	0.40	0.98	
24	0.55	0.59	0.87	1.90	1.25	0.95	0.76	0.83	0.53	0.47	0.50	0.99	
25	0.54	0.59	1.13	1.55	1.34	0.97	0.71	0.89	0.61	0.39	0.38	0.97	
26	0.55	0.58	1.81	1.57	1.18	0.97	1.07	0.88	0.58	0.39	0.34	0.97	
27	0.55	0.62	1.37	1.47	1.09	0.97	1.15	0.81	0.51	0.37	0.36	0.96	
28	0.56	0.63	1.25	1.57	1.06	0.96	1.11	0.91	0.47	0.39	0.36	1.01	
29	0.55	0.67	1.15	1.41	1.00	0.93	1.09	0.91	0.45	0.48		0.98	
30	0.54	0.62	0.97	1.26	1.03	0.89	1.12	0.90	0.56	0.51		0.98	
31		0.59		1.24	1.13		1.09		0.52	0.47		1.00	
MEAN	0.55	0.59	0.96	1.21	0.99	1.11	0.93	0.96	0.65	0.45	0.40	0.62	
MAX	0.62	0.67	1.81	2.39	1.34	1.48	1.15	1.10	0.86	0.54	0.53	1.01	2.39
MIN	0.53	0.50	0.64	0.75	0.74	0.89	0.71	0.81	0.45	0.37	0.34	0.37	0.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.80 M (A.D), AT 15.00 HOURS, ON JUL 19, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.81 M (A.D)
LEFT BANK ELEVATION 4.36 M (A.D)
RIGHT BANK ELEVATION 5.58 M (A.D), DRAINAGE AREA 192 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	0.65	1.45	3.50	6.00	46.10	12.50	4.40	2.28	0.70	0.20	0.14	
2	0.65	0.70	1.80	3.50	6.00	56.00	11.00	4.40	1.90	0.60	0.16	0.14	
3	0.70	0.90	2.14	2.94	4.75	51.00	10.50	4.10	1.60	0.38	0.14	0.16	
4	0.70	0.50	2.94	2.63	4.10	65.80	9.50	4.50	1.20	0.29	0.14	0.55	
5	0.65	1.00	3.10	2.78	19.60	55.00	8.60	3.90	1.45	0.32	0.18	0.65	
6	0.70	0.90	2.35	2.49	41.60	39.80	7.80	3.70	1.40	0.32	0.55	0.50	
7	0.70	0.95	1.70	2.07	28.65	31.20	7.80	3.90	1.30	0.35	0.65	0.55	
8	0.75	0.95	1.20	1.95	21.85	26.95	7.80	3.70	1.30	0.41	0.47	0.55	
9	0.75	1.00	1.20	1.75	24.40	25.25	6.60	4.40	1.25	0.35	0.20	0.38	
10	0.70	1.00	1.30	1.75	17.50	29.50	6.60	3.60	1.25	0.26	0.18	0.14	
11	0.70	1.05	2.07	1.85	14.70	26.95	6.20	3.18	1.30	0.26	0.14	0.16	
12	0.70	1.00	3.34	2.00	12.50	27.80	1.85	3.42	1.30	0.26	0.10	0.18	
13	0.75	1.00	3.80	2.28	11.00	38.00	2.21	3.50	2.42	0.23	0.10	0.20	
14	0.75	1.00	4.50	2.42	12.00	47.00	3.70	3.26	1.95	0.35	0.10	0.16	
15	0.75	0.90	4.30	3.10	8.20	51.00	4.20	3.26	1.95	0.38	0.10	0.18	
16	0.75	0.95	8.60	4.40	7.40	39.80	4.20	3.02	1.90	0.35	0.08	0.20	
17	1.05	0.95	5.00	4.75	6.60	41.60	3.90	2.94	1.80	0.29	0.10	0.16	
18	0.90	1.00	4.10	20.90	6.60	23.55	4.00	2.70	1.50	0.29	0.41	0.20	
19	0.75	1.00	3.18	278.70	11.00	21.00	5.50	2.94	1.35	0.26	0.18	0.55	
20	0.75	0.95	2.56	76.60	7.40	17.50	5.00	2.94	0.80	0.18	0.38	0.85	
21	0.65	0.90	2.00	76.60	15.40	20.30	4.20	2.42	0.85	0.41	0.35	2.00	
22	1.10	1.00	1.95	22.60	15.40	17.50	3.18	2.86	0.75	0.50	0.38	2.49	
23	0.95	0.95	2.00	16.20	13.50	15.40	2.56	2.28	0.70	0.41	0.20	3.34	
24	0.75	0.95	2.49	92.00	42.50	17.50	1.80	2.21	0.65	0.41	0.50	3.42	
25	0.70	0.95	5.25	31.50	51.00	18.90	1.55	2.63	1.05	0.18	0.16	3.26	
26	0.75	0.90	72.20	33.70	36.30	18.90	4.20	2.56	0.90	0.18	0.08	3.26	
27	0.75	1.10	15.55	23.45	28.65	18.90	5.75	2.07	0.55	0.14	0.12	3.18	
28	0.80	1.15	9.00	33.70	26.10	18.20	4.75	2.78	0.41	0.18	0.12	3.60	
29	0.75	1.35	5.75	18.35	21.00	16.10	4.40	2.78	0.35	0.44		3.34	
30	0.70	1.10	3.26	9.40	23.55	13.50	5.00	2.70	0.80	0.55		3.34	
31		0.95		8.60	32.05		4.40		0.60	0.41		3.50	
TOTAL	22.75	29.65	180.08	788.46	577.30	936.00	171.25	97.05	38.81	10.64	6.47	41.33	2899.79 CMSDAY
MEAN	0.76	0.96	6.00	25.43	18.62	31.20	5.52	3.23	1.25	0.34	0.23	1.33	7.94 CMS
MAX	1.10	1.35	72.20	278.70	51.00	65.80	12.50	4.50	2.42	0.70	0.65	3.60	278.70 CMS
MIN	0.65	0.50	1.20	1.75	4.10	13.50	1.55	2.07	0.35	0.14	0.08	0.14	0.08 CMS
RUNOFF	1.966	2.562	15.559	68.123	49.879	80.870	14.796	8.385	3.353	0.919	0.559	3.571	250.541 MCM

MOMENTARY PEAK ******** CMS, AT 2.80 M (A.D), AT 15.00 HOURS, ON JUL 19, 1980
RUNOFF YIELD 41.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

HUAI NAM YAO AT BAN WANG HIT, NAN (N.51)

LOCATION — LAT. 19°-09'-31" N., LONG. 100°-46'-56" E., ON RIGHT BANK BEHIND THE PHA TO TOBACCO'S HOUSE AT BAN WANG HIT, AMPHOE THA WANG PHA, NAN.

DRAINAGE AREA — 774 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +230.10 M. (M.S.L.)

BENCH MARK — B.M. FROM MET. NO.04

LOCATION — ON LEFT BANK ABOUT 2 METERS UPSTREAM FROM MEASURING POLE.

ELEVATION — +237.344 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

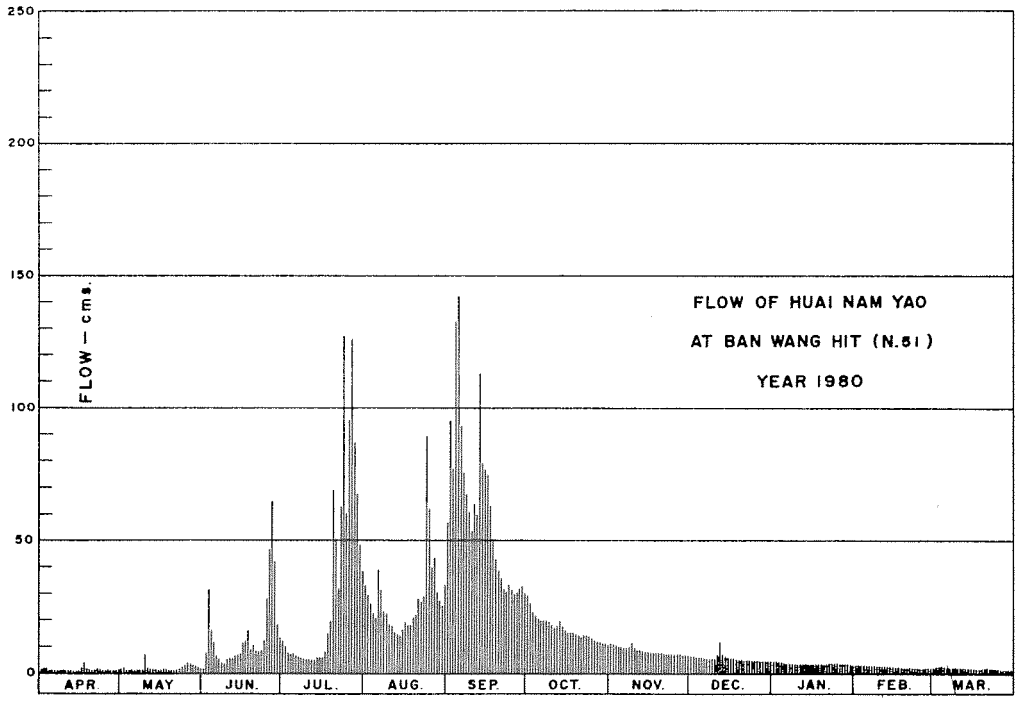
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	230.81	230.81	230.86	231.35	231.97	232.48	231.86	231.29	231.08	230.98	230.91	230.85	
2	230.81	230.86	231.01	231.25	231.90	233.22	231.76	231.28	231.07	230.98	230.90	230.89	
3	230.83	230.76	231.89	231.19	231.82	232.89	231.70	231.27	231.06	230.98	230.90	230.89	
4	230.82	230.76	231.37	231.13	231.70	233.84	231.64	231.25	231.06	230.97	230.90	230.89	
5	230.80	230.75	231.33	231.14	231.61	234.04	231.61	231.24	231.06	230.97	230.90	230.84	
6	230.79	230.76	231.07	231.10	232.09	233.24	231.58	231.23	231.05	230.96	230.90	230.84	
7	230.79	230.77	231.03	231.07	231.93	232.85	231.57	231.22	231.05	230.96	230.90	230.85	
8	230.79	230.76	230.96	231.05	231.68	232.74	231.58	231.22	231.05	230.96	230.89	230.85	
9	230.79	230.77	230.93	231.04	231.64	232.59	231.55	231.29	231.04	230.96	230.89	230.85	
10	230.79	231.11	230.98	231.04	231.52	232.41	231.52	231.23	231.04	230.95	230.89	230.85	
11	230.79	230.85	231.06	231.02	231.47	232.64	231.50	231.20	231.04	230.95	230.89	230.85	
12	230.79	230.81	231.05	231.01	231.43	232.54	231.49	231.19	231.29	230.95	230.89	230.85	
13	230.78	230.81	231.05	231.01	231.39	233.54	231.54	231.18	231.13	230.95	230.89	230.85	
14	230.78	230.79	231.12	231.03	231.37	232.94	231.51	231.18	231.07	230.94	230.88	230.84	
15	230.80	230.79	231.10	231.09	231.45	232.92	231.47	231.17	231.07	230.94	230.88	230.83	
16	230.85	230.80	231.30	231.08	231.54	232.87	231.44	231.16	231.06	230.94	230.88	230.83	
17	230.95	230.81	231.33	231.06	231.54	232.56	231.44	231.16	231.05	230.94	230.88	230.82	
18	230.83	230.84	231.46	231.41	231.50	232.35	231.44	231.16	231.04	230.93	230.87	230.82	
19	230.80	230.80	231.18	231.51	231.62	232.19	231.43	231.15	231.03	230.93	230.87	230.82	
20	230.78	230.79	231.26	232.74	231.64	232.10	231.40	231.14	231.03	230.93	230.87	230.82	
21	230.79	230.79	231.18	232.39	231.80	232.04	231.39	231.13	231.02	230.93	230.87	230.82	
22	230.80	230.80	231.15	232.03	231.77	231.96	231.39	231.13	231.02	230.93	230.87	230.82	
23	230.83	230.84	231.18	231.81	231.83	231.89	231.41	231.13	231.01	230.93	230.87	230.82	
24	230.80	230.88	231.26	233.78	233.12	232.00	231.37	231.13	231.01	230.93	230.87	230.81	
25	230.78	230.98	231.66	232.56	232.60	231.94	231.35	231.13	231.00	230.93	230.86	230.82	
26	230.77	230.94	232.27	233.06	232.09	231.86	231.34	231.12	231.00	230.93	230.86	230.80	
27	230.77	230.93	232.66	233.76	232.20	231.87	231.32	231.12	231.00	230.92	230.85	230.79	
28	230.76	230.93	232.06	233.18	231.91	231.91	231.31	231.11	231.00	230.92	230.85	230.79	
29	230.76	230.89	231.51	232.61	231.81	231.94	231.30	231.10	230.99	230.92		230.79	
30	230.77	230.87	231.38	232.32	231.71	231.89	231.29	231.09	230.99	230.91		230.79	
31		230.87		232.10	231.96		231.29		230.98	230.91		230.79	
MEAN	230.80	230.83	231.32	231.74	231.79	232.54	231.48	231.18	231.04	230.94	230.88	230.83	
MAX	230.95	231.11	232.66	233.78	233.12	234.04	231.86	231.29	231.29	230.98	230.91	230.89	234.04
MIN	230.76	230.75	230.86	231.01	231.37	231.86	231.29	231.09	230.98	230.91	230.85	230.79	230.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 234.82 M (MSL), AT 15.00 HOURS, ON JUL 27, 1980
ZERO GAGE AT BOTTOM ELEVATION 230.10 M (MSL), RIVER BED 229.91 M (MSL)
LEFT BANK ELEVATION 239.99 M (MSL)
RIGHT BANK ELEVATION 236.51 M (MSL), DRAINAGE AREA 774 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.37	1.37	2.22	13.17	34.29	56.30	30.22	11.58	6.68	4.58	3.11	2.05	
2	1.37	2.22	5.21	10.52	31.70	94.82	26.60	11.32	6.47	4.58	2.90	2.73	
3	1.71	0.96	31.33	8.99	28.74	76.77	24.58	11.05	6.26	4.58	2.90	2.73	
4	1.54	0.96	13.70	7.73	24.58	130.50	22.40	10.52	6.26	4.37	2.90	2.73	
5	1.20	0.90	12.64	7.94	21.35	142.58	21.35	10.26	6.26	4.37	2.90	1.88	
6	1.14	0.96	6.47	7.10	39.04	95.94	20.35	9.99	6.05	4.16	2.90	1.88	
7	1.14	1.02	5.63	6.47	32.81	74.65	20.02	9.73	6.05	4.16	2.90	2.05	
8	1.14	0.96	4.16	6.05	23.80	69.00	20.35	9.73	6.05	4.16	2.73	2.05	
9	1.14	1.02	3.53	5.84	22.40	61.52	19.37	11.58	5.84	4.16	2.73	2.05	
10	1.14	7.31	4.58	5.84	18.40	52.97	18.40	9.99	5.84	3.98	2.73	2.05	
11	1.14	2.05	6.26	5.42	16.77	64.00	17.75	9.20	5.84	3.95	2.73	2.05	
12	1.14	1.37	6.05	5.21	15.47	59.15	17.42	8.99	11.58	3.95	2.73	2.05	
13	1.08	1.37	6.05	5.21	14.23	113.02	19.05	8.78	7.73	3.95	2.73	2.05	
14	1.08	1.14	7.52	5.63	13.70	79.42	18.07	8.78	6.47	3.74	2.56	1.88	
15	1.20	1.14	7.10	6.89	16.12	78.36	16.77	8.57	6.47	3.74	2.56	1.71	
16	2.05	1.20	11.85	6.68	19.05	75.71	15.80	8.36	6.26	3.74	2.56	1.71	
17	3.95	1.37	12.64	6.26	19.05	60.10	15.80	8.36	6.05	3.74	2.56	1.54	
18	1.71	1.88	16.45	14.82	17.75	50.25	15.80	8.36	5.84	3.53	2.39	1.54	
19	1.20	1.20	8.78	18.07	21.70	43.09	15.47	8.15	5.63	3.53	2.39	1.54	
20	1.08	1.14	10.79	69.00	22.40	39.45	14.50	7.94	5.63	3.53	2.39	1.54	
21	1.14	1.14	8.78	52.05	28.00	37.02	14.23	7.73	5.42	3.53	2.39	1.54	
22	1.20	1.20	8.15	36.61	26.95	33.92	14.23	7.73	5.42	3.53	2.39	1.54	
23	1.71	1.88	8.78	28.37	29.11	31.33	14.82	7.73	5.21	3.53	2.39	1.54	
24	1.20	2.56	10.79	126.94	89.26	35.40	13.70	7.73	5.21	3.53	2.39	1.37	
25	1.08	2.56	23.10	60.10	62.00	33.18	13.17	7.73	5.00	3.53	2.22	1.54	
26	1.02	3.74	46.65	85.93	39.04	30.22	12.91	7.52	5.00	3.53	2.22	1.20	
27	1.02	3.53	65.00	125.78	43.50	30.59	12.38	7.52	5.00	3.32	2.08	1.14	
28	0.96	3.53	37.83	92.59	32.07	32.07	12.11	7.31	5.00	3.32	2.08	1.14	
29	0.96	2.73	18.07	62.50	28.37	33.18	11.85	7.10	4.79	3.32		1.14	
30	1.02	2.39	13.97	48.90	24.85	31.33	11.58	6.89	4.79	3.11		1.14	
31		2.39		39.45	33.92		11.58		4.58	3.11		1.14	
TOTAL	39.83	59.19	424.08	982.06	890.34	1845.76	532.85	266.23	184.68	117.83	72.40	54.24	5469.18 CMSDAY
MEAN	1.33	1.91	14.14	31.68	28.72	61.53	17.18	8.87	5.96	3.80	2.59	1.75	14.98 CMS
MAX	3.95	7.31	65.00	126.94	89.26	142.58	30.22	11.58	11.58	4.58	3.11	2.73	142.58 CMS
MIN	0.96	0.90	2.22	5.21	13.70	30.22	11.58	6.89	4.58	3.11	2.08	1.14	0.90 CMS
RUNOFF	3.441	5.114	36.640	84.850	76.925	159.473	46.012	23.002	15.956	10.181	6.255	4.686	472.537 MCM

MOMENTARY PEAK 191.33 CMS, AT 234.82 M (MSL), AT 15.00 HOURS, ON JUL 27, 1980
RUNOFF YIELD 19.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 247.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

NAM YANG AT BAN DON MUN, NAN (N.52)

LOCATION — LAT. 19°-05'-08" N., LONG. 100°-55'-51" E., ON LEFT BANK AT THE BRIDGE OF PUA-BAN DU PHONG HIGHWAY, BAN DON MUN, TAMBON SILA PHET, AMPHOE PUA, NAN.

DRAINAGE AREA — 49 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 15 METERS FROM THE ABUTMENT OF THE BRIDGE.

ELEVATION — +3.063 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1980 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

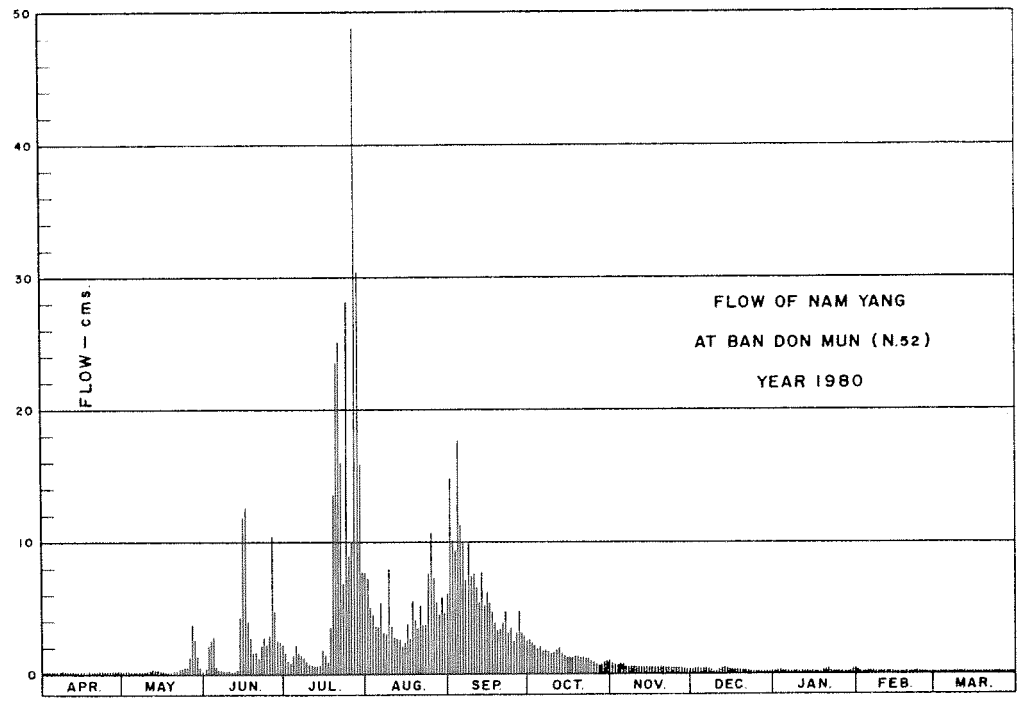
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 11 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — STREAM GAGING BEGAN ON APRIL 1,1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.28	0.31	0.59	0.87	1.10	0.66	0.52	0.44	0.43	0.42	0.34	
2	0.30	0.31	0.63	0.54	0.76	0.99	0.65	0.51	0.44	0.43	0.39	0.36	
3	0.30	0.30	0.66	0.51	0.76	0.93	0.64	0.51	0.44	0.43	0.39	0.35	
4	0.30	0.32	0.67	0.53	0.74	1.17	0.61	0.51	0.44	0.42	0.39	0.35	
5	0.30	0.34	0.47	0.64	0.69	1.01	0.63	0.52	0.46	0.41	0.39	0.35	
6	0.34	0.29	0.44	0.57	0.80	0.96	0.60	0.49	0.46	0.40	0.38	0.34	
7	0.35	0.28	0.41	0.57	0.69	0.86	0.60	0.48	0.47	0.39	0.38	0.34	
8	0.33	0.33	0.40	0.57	0.68	0.97	0.61	0.48	0.43	0.38	0.38	0.36	
9	0.31	0.34	0.39	0.52	0.90	0.88	0.60	0.49	0.41	0.39	0.39	0.37	
10	0.34	0.33	0.41	0.51	0.72	0.89	0.58	0.48	0.43	0.40	0.37	0.37	
11	0.30	0.43	0.41	0.51	0.68	0.85	0.61	0.48	0.45	0.39	0.35	0.36	
12	0.29	0.44	0.42	0.49	0.67	0.80	0.62	0.48	0.46	0.39	0.33	0.37	
13	0.28	0.42	0.40	0.50	0.66	0.89	0.60	0.48	0.48	0.40	0.34	0.36	
14	0.30	0.40	0.53	0.49	0.63	0.79	0.58	0.49	0.47	0.39	0.34	0.36	
15	0.30	0.39	1.02	0.61	0.63	0.83	0.56	0.48	0.45	0.38	0.34	0.35	
16	0.28	0.36	1.04	0.60	0.73	0.80	0.57	0.48	0.44	0.37	0.34	0.35	
17	0.29	0.34	0.73	0.50	0.66	0.78	0.57	0.48	0.43	0.37	0.35	0.36	
18	0.31	0.34	0.65	0.56	0.81	0.73	0.56	0.48	0.43	0.38	0.35	0.34	
19	0.32	0.34	0.59	0.86	0.74	0.70	0.57	0.47	0.42	0.42	0.36	0.34	
20	0.31	0.35	0.60	1.30	0.71	0.71	0.56	0.47	0.43	0.43	0.36	0.34	
21	0.36	0.41	0.55	1.34	0.79	0.73	0.57	0.48	0.43	0.45	0.35	0.34	
22	0.37	0.39	0.56	0.94	0.72	0.77	0.56	0.48	0.43	0.44	0.36	0.34	
23	0.37	0.45	0.68	0.85	0.73	0.68	0.56	0.48	0.42	0.42	0.36	0.34	
24	0.35	0.46	0.64	1.40	0.88	0.71	0.55	0.48	0.42	0.41	0.36	0.34	
25	0.37	0.45	0.62	0.91	0.99	0.65	0.53	0.47	0.41	0.40	0.36	0.34	
26	0.30	0.52	0.98	0.95	0.88	0.66	0.51	0.48	0.39	0.40	0.35	0.33	
27	0.31	0.72	0.78	1.74	0.80	0.77	0.50	0.48	0.38	0.40	0.35	0.31	
28	0.29	0.68	0.66	1.47	0.74	0.70	0.51	0.46	0.38	0.42	0.36	0.31	
29	0.29	0.56	0.65	0.99	0.82	0.68	0.52	0.45	0.41	0.40		0.31	
30	0.29	0.44	0.64	0.89	0.75	0.65	0.53	0.45	0.43	0.42		0.30	
31		0.37		0.89	0.82		0.54		0.42	0.44		0.30	
MEAN	0.31	0.40	0.60	0.79	0.76	0.82	0.58	0.48	0.43	0.41	0.36	0.34	
MAX	0.37	0.72	1.04	1.74	0.99	1.17	0.66	0.52	0.48	0.45	0.42	0.37	1.74
MIN	0.28	0.28	0.31	0.49	0.63	0.65	0.50	0.45	0.38	0.37	0.33	0.30	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.90 M (A.D), AT 11.00 HOURS, ON JUL 27, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.13 M (A.D)
LEFT BANK ELEVATION 4.19 M (A.D)
RIGHT BANK ELEVATION 3.57 M (A.D), DRAINAGE AREA 49 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.02	1.60	7.22	14.80	2.66	0.90	0.40	0.35	0.30	0.08	
2	0.00	0.02	2.18	1.10	4.56	10.70	2.50	0.80	0.40	0.35	0.18	0.12	
3	0.00	0.00	2.66	0.80	4.56	8.90	2.34	0.80	0.40	0.35	0.18	0.10	
4	0.00	0.04	2.82	1.00	4.14	17.60	1.86	0.80	0.40	0.30	0.18	0.10	
5	0.00	0.08	0.55	2.34	3.14	11.38	2.18	0.90	0.50	0.25	0.18	0.10	
6	0.08	0.00	0.40	1.40	5.40	9.80	1.70	0.65	0.50	0.20	0.16	0.08	
7	0.10	0.00	0.25	1.40	3.14	6.96	1.70	0.60	0.55	0.18	0.16	0.08	
8	0.06	0.06	0.20	1.40	2.98	10.10	1.86	0.60	0.35	0.16	0.16	0.12	
9	0.02	0.08	0.18	0.90	8.00	7.48	1.70	0.65	0.25	0.18	0.18	0.14	
10	0.08	0.06	0.25	0.80	3.72	7.74	1.50	0.60	0.35	0.20	0.14	0.14	
11	0.00	0.35	0.25	0.80	2.98	6.70	1.86	0.60	0.45	0.18	0.10	0.12	
12	0.00	0.40	0.30	0.65	2.82	5.40	2.02	0.60	0.50	0.18	0.06	0.14	
13	0.00	0.30	0.20	0.70	2.66	7.74	1.70	0.60	0.60	0.20	0.08	0.12	
14	0.00	0.20	1.00	0.65	2.18	5.19	1.50	0.65	0.55	0.18	0.08	0.12	
15	0.00	0.18	11.76	1.86	2.18	6.18	1.30	0.60	0.45	0.16	0.08	0.10	
16	0.00	0.12	12.52	1.70	3.93	5.40	1.40	0.60	0.40	0.14	0.08	0.10	
17	0.00	0.08	3.93	0.70	2.66	4.98	1.40	0.60	0.35	0.14	0.10	0.12	
18	0.02	0.08	2.50	1.30	5.66	3.93	1.30	0.60	0.35	0.16	0.10	0.08	
19	0.04	0.08	1.60	6.96	4.14	3.30	1.40	0.55	0.30	0.30	0.12	0.08	
20	0.02	0.10	1.70	23.20	3.51	3.51	1.30	0.55	0.35	0.35	0.12	0.08	
21	0.12	0.25	1.20	25.16	5.19	3.93	1.40	0.60	0.35	0.45	0.10	0.08	
22	0.14	0.18	1.30	9.20	3.72	4.77	1.30	0.60	0.35	0.40	0.12	0.08	
23	0.14	0.45	2.98	6.70	3.93	2.98	1.30	0.60	0.30	0.30	0.12	0.08	
24	0.10	0.50	2.34	28.10	7.48	3.51	1.20	0.60	0.30	0.25	0.12	0.08	
25	0.14	0.45	2.02	8.30	10.70	2.50	1.00	0.55	0.25	0.20	0.12	0.08	
26	0.00	0.90	10.40	9.50	7.48	2.66	0.80	0.60	0.18	0.20	0.10	0.06	
27	0.02	3.72	4.98	48.72	5.40	4.77	0.70	0.60	0.16	0.20	0.10	0.02	
28	0.00	2.98	2.66	31.95	4.14	3.30	0.80	0.50	0.16	0.30	0.12	0.02	
29	0.00	1.30	2.50	10.70	5.92	2.98	0.90	0.45	0.25	0.20		0.02	
30	0.00	0.40	2.34	7.74	4.35	2.50	1.00	0.45	0.35	0.30		0.00	
31		0.14		7.74	5.92		1.10		0.30	0.40		0.00	
TOTAL	1.08	13.50	77.99	245.07	143.81	191.69	46.68	18.80	11.35	7.71	3.64	2.64	763.96 CMSDAY
MEAN	0.04	0.44	2.60	7.91	4.64	6.39	1.51	0.63	0.37	0.25	0.13	0.09	2.09 CMS
MAX	0.14	3.72	12.52	48.72	10.70	17.60	2.66	0.90	0.60	0.45	0.30	0.14	48.72 CMS
MIN	0.00	0.00	0.02	0.65	2.18	2.50	0.70	0.45	0.16	0.14	0.08	0.00	0.00 CMS
RUNOFF	0.093	1.166	6.738	21.174	12.425	16.562	4.033	1.624	0.981	0.666	0.314	0.228	66.006 MCM

MOMENTARY PEAK 59.60 CMS, AT 1490 M (A.D), AT 11.00 HOURS, ON JUL 27, 1980

RUNOFF YIELD 42.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1216.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAN RIVER BASIN

KHLONG BUTSABONG AT BAN HUAI TUM, PHETCHABUN (N.53)

LOCATION — LAT. 16°-11'-26" N., LONG. 100°-55'-40" E., ON RIGHT BANK AT THE BRIDGE OF KHLONG BUTSABONG AT BAN HUAI TUM, AMPHOE CHON DAN, PHETCHABUN.

DRAINAGE AREA — 111 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE FOOT OF THE BRIDGE.

ELEVATION — +8.713 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

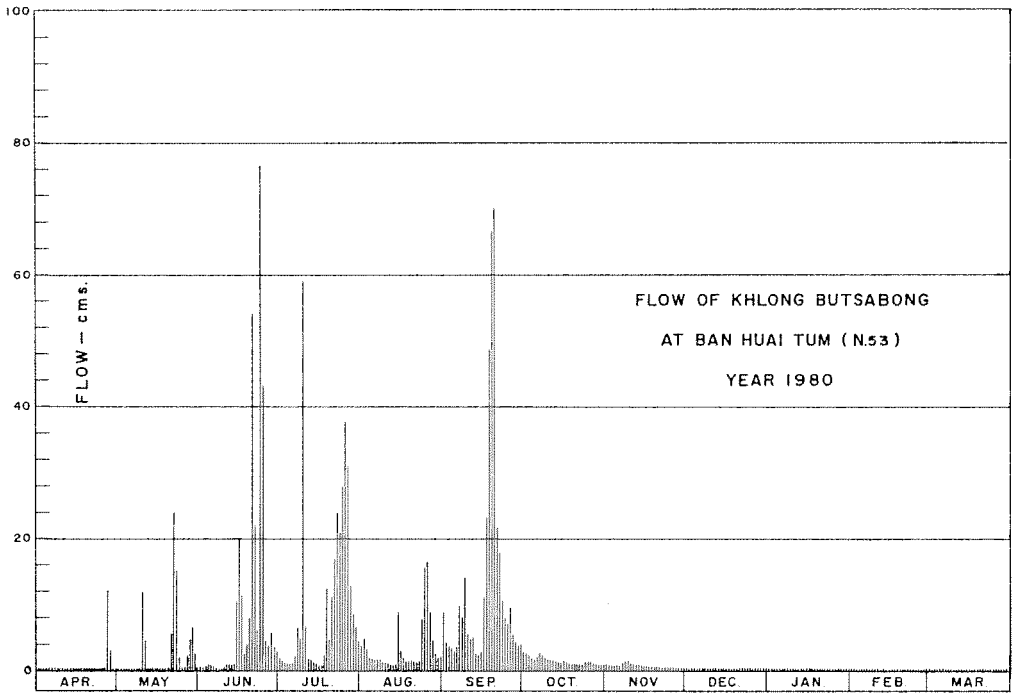
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.40	0.64	0.79	0.87	1.06	0.83	0.70	0.61	0.51	0.45	0.42	
2	0.26	0.40	0.62	0.74	0.92	0.89	0.83	0.69	0.60	0.50	0.45	0.42	
3	0.26	0.40	0.65	0.72	0.87	0.85	0.82	0.68	0.60	0.50	0.45	0.42	
4	0.26	0.37	0.72	0.70	0.81	0.84	0.79	0.68	0.60	0.49	0.45	0.42	
5	0.26	0.35	0.70	0.70	0.80	0.83	0.78	0.67	0.60	0.49	0.45	0.41	
6	0.26	0.35	0.66	0.70	0.78	0.85	0.76	0.67	0.59	0.49	0.44	0.41	
7	0.26	0.41	0.63	0.73	0.78	1.10	0.83	0.72	0.59	0.49	0.44	0.41	
8	0.26	0.57	0.60	0.98	0.78	1.03	0.82	0.75	0.58	0.49	0.44	0.43	
9	0.26	0.65	0.59	0.84	0.73	1.20	0.78	0.74	0.58	0.49	0.44	0.45	
10	0.25	1.15	0.61	1.97	0.73	0.94	0.77	0.74	0.58	0.49	0.44	0.56	
11	0.25	0.82	0.67	0.89	0.73	0.91	0.76	0.69	0.57	0.49	0.43	0.52	
12	0.25	0.62	0.71	0.78	0.72	0.92	0.76	0.68	0.57	0.49	0.43	0.54	
13	0.23	0.56	0.68	0.77	0.70	0.84	0.75	0.69	0.57	0.49	0.43	0.48	
14	0.20	0.50	0.69	0.73	0.71	0.82	0.74	0.69	0.56	0.48	0.42	0.47	
15	0.20	0.50	1.19	0.72	1.06	0.83	0.74	0.67	0.56	0.48	0.42	0.46	
16	0.19	0.50	1.34	0.69	0.81	0.95	0.79	0.67	0.56	0.48	0.42	0.45	
17	0.18	0.47	1.09	0.67	0.76	1.45	0.76	0.65	0.56	0.48	0.42	0.44	
18	0.17	0.39	0.81	0.76	0.75	1.75	0.73	0.65	0.56	0.48	0.41	0.42	
19	0.12	0.38	0.91	1.16	0.74	2.07	0.73	0.65	0.55	0.48	0.41	0.42	
20	0.10	0.46	1.24	0.91	0.76	2.11	0.73	0.65	0.55	0.47	0.41	0.41	
21	0.10	0.86	1.90	1.12	0.75	1.34	0.72	0.65	0.55	0.47	0.40	0.41	
22	0.08	1.42	1.01	1.25	0.73	1.29	0.71	0.64	0.55	0.47	0.40	0.40	
23	0.08	1.29	0.97	1.42	0.74	1.10	0.72	0.64	0.54	0.47	0.40	0.39	
24	0.05	0.59	2.19	1.35	1.05	1.01	0.74	0.64	0.54	0.47	0.40	0.38	
25	0.05	0.52	1.10	1.50	1.24	1.00	0.75	0.64	0.54	0.47	0.40	0.37	
26	0.05	0.64	0.89	1.66	1.26	1.08	0.74	0.64	0.53	0.46	0.40	0.37	
27	1.15	0.71	0.86	1.54	0.94	0.93	0.73	0.64	0.53	0.46	0.40	0.36	
28	0.61	0.86	0.95	1.12	0.91	0.89	0.72	0.63	0.53	0.45	0.42	0.36	
29	0.25	0.99	0.86	1.03	0.82	0.87	0.70	0.63	0.52	0.45		0.35	
30	0.40	0.75	0.83	0.95	0.80	0.89	0.69	0.63	0.52	0.45		0.34	
31		0.62		0.91	0.80		0.70		0.51	0.45		0.32	
MEAN	0.24	0.63	0.91	0.99	0.83	1.09	0.76	0.67	0.56	0.48	0.42	0.42	
MAX	1.15	1.42	2.19	1.97	1.26	2.11	0.83	0.75	0.61	0.51	0.45	0.56	2.19
MIN	0.05	0.35	0.59	0.67	0.70	0.82	0.69	0.63	0.51	0.45	0.40	0.32	0.05

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.90 M (A.D.), AT 4.00 HOURS, ON JUN 24, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — M (A.D.)

LEFT BANK ELEVATION — 8.74 M (A.D.)

RIGHT BANK ELEVATION — 8.49 M (A.D.), DRAINAGE AREA — 111 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.58	1.90	3.75	8.80	2.75	1.00	0.37	0.03	0.00	0.00	
2	0.00	0.00	0.44	1.40	5.00	4.25	2.75	0.93	0.30	0.00	0.00	0.00	
3	0.00	0.00	0.65	1.20	3.75	3.25	2.50	0.86	0.30	0.00	0.00	0.00	
4	0.00	0.00	1.20	1.00	2.25	3.00	1.90	0.86	0.30	0.00	0.00	0.00	
5	0.00	0.00	1.00	1.00	2.00	2.75	1.80	0.79	0.30	0.00	0.00	0.00	
6	0.00	0.00	0.72	1.00	1.80	3.25	1.60	0.79	0.27	0.00	0.00	0.00	
7	0.00	0.00	0.51	1.30	1.80	10.00	2.75	1.20	0.27	0.00	0.00	0.00	
8	0.00	0.21	0.30	6.50	1.80	7.90	2.50	1.50	0.24	0.00	0.00	0.00	
9	0.00	0.65	0.27	3.00	1.30	14.00	1.80	1.40	0.24	0.00	0.00	0.00	
10	0.00	12.00	0.37	58.90	1.30	5.50	1.70	1.40	0.24	0.00	0.00	0.18	
11	0.00	2.50	0.79	4.25	1.30	4.75	1.60	0.93	0.21	0.00	0.00	0.06	
12	0.00	0.44	1.10	1.80	1.20	5.00	1.60	0.86	0.21	0.00	0.00	0.12	
13	0.00	0.18	0.86	1.70	1.00	3.00	1.50	0.93	0.21	0.00	0.00	0.00	
14	0.00	0.00	0.93	1.30	1.10	2.50	1.40	0.93	0.18	0.00	0.00	0.00	
15	0.00	0.00	13.60	1.20	8.80	2.75	1.40	0.79	0.18	0.00	0.00	0.00	
16	0.00	0.00	20.00	0.93	2.25	5.75	1.90	0.79	0.18	0.00	0.00	0.00	
17	0.00	0.00	9.70	0.79	1.60	25.50	1.60	0.65	0.18	0.00	0.00	0.00	
18	0.00	0.00	2.25	1.60	1.50	43.50	1.30	0.65	0.18	0.00	0.00	0.00	
19	0.00	0.00	4.75	12.40	1.40	66.60	1.30	0.65	0.15	0.00	0.00	0.00	
20	0.00	0.00	15.60	4.75	1.60	69.80	1.30	0.65	0.15	0.00	0.00	0.00	
21	0.00	3.50	54.00	10.80	1.50	20.00	1.20	0.65	0.15	0.00	0.00	0.00	
22	0.00	24.00	7.30	16.00	1.30	17.60	1.10	0.58	0.15	0.00	0.00	0.00	
23	0.00	17.60	6.25	24.00	1.40	10.00	1.20	0.58	0.12	0.00	0.00	0.00	
24	0.00	0.27	76.20	20.50	8.50	7.30	1.40	0.58	0.12	0.00	0.00	0.00	
25	0.00	0.06	10.00	28.00	15.60	7.00	1.50	0.58	0.12	0.00	0.00	0.00	
26	0.00	0.58	4.25	37.60	16.40	9.40	1.40	0.58	0.09	0.00	0.00	0.00	
27	12.00	1.10	3.50	30.40	5.50	5.25	1.30	0.58	0.09	0.00	0.00	0.00	
28	0.37	3.50	5.75	10.80	4.75	4.25	1.20	0.51	0.09	0.00	0.00	0.00	
29	0.00	6.75	3.50	7.90	2.50	3.75	1.00	0.51	0.06	0.00		0.00	
30	0.00	1.50	2.75	5.75	2.00	4.25	0.93	0.51	0.06	0.00		0.00	
31		0.44		4.75	2.00		1.00		0.03	0.00		0.00	
TOTAL	12.37	75.28	249.12	304.42	107.95	380.65	50.18	24.22	5.74	0.03	0.00	0.36	1210.32 CMSDAY
MEAN	0.41	2.43	8.30	9.82	3.48	12.69	1.62	0.81	0.19	0.00	0.00	0.01	3.32 CMS
MAX	12.00	24.00	76.20	58.90	16.40	69.80	2.75	1.50	0.37	0.03	0.00	0.18	76.20 CMS
MIN	0.00	0.00	0.27	0.79	1.00	2.50	0.93	0.51	0.03	0.00	0.00	0.00	0.00 CMS
RUNOFF	1.069	6.504	21.524	26.302	9.327	32.888	4.336	2.093	0.496	0.003	0.000	0.031	104.572 MCM

MOMENTARY PEAK ******** CMS, AT 3.90 M (A.D), AT 4.00 HOURS, ON JUN 24, 1980
RUNOFF YIELD 29.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHAO PHRAYA RIVER BASIN

CHAO PHRAYA RIVER AT NAKHON SAWAN, NAKHON SAWAN (C.2)

LOCATION — LAT. 15°-40'-15" N., LONG. 100°-06'-45" E., ON LEFT BANK AT KHAI CHIRA PRAWAT ABOUT 3 KILOMETERS DOWNSTREAM FROM DECHATIWONG BRIDGE, AMPHOE MUANG, NAKHON SAWAN.

DRAINAGE AREA — 110,569 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +17.00 M. (M.S.L.)

BENCH MARK — B.M.-M.D./R.I.D.

LOCATION — ABOUT 20 METERS WEST OF THE GAGE SITE.

ELEVATION — +25.628 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1914 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1956 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1956 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

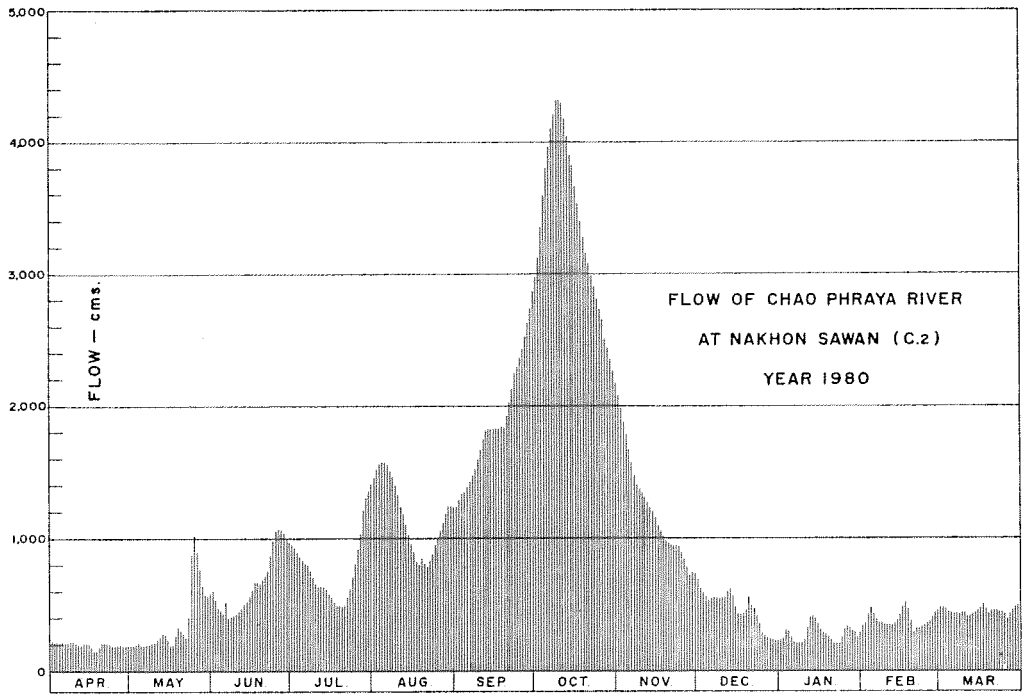
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 182 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	18.40	18.22	19.95	20.97	22.26	21.79	24.99	23.67	20.20	18.43	18.97	19.55	
2	18.34	18.18	19.69	20.94	22.46	21.87	25.15	23.47	19.98	18.56	19.05	19.57	
3	18.29	18.24	19.50	20.84	22.55	21.99	25.34	23.24	19.90	18.84	19.39	19.50	
4	18.25	18.29	19.48	20.74	22.59	22.00	25.50	23.02	19.81	18.81	19.54	19.40	
5	18.35	18.21	19.27	20.63	22.58	22.09	25.57	22.78	19.69	18.53	19.36	19.36	
6	18.30	18.13	19.70	20.57	22.54	22.22	25.63	22.56	19.78	18.29	19.18	19.38	
7	18.32	18.24	19.13	20.57	22.44	22.32	25.67	22.34	19.82	18.31	19.05	19.37	
8	18.39	18.33	19.21	20.43	22.31	22.42	25.72	22.14	19.80	18.39	19.11	19.39	
9	18.33	18.24	19.27	20.30	22.18	22.60	25.76	22.09	19.78	18.28	18.99	19.36	
10	18.27	18.31	19.32	20.15	21.97	22.80	25.76	22.02	19.76	18.43	18.96	19.40	
11	18.20	18.44	19.44	20.05	21.74	23.00	25.75	21.92	19.80	18.94	18.96	19.36	
12	18.22	18.56	19.50	20.09	21.55	23.12	25.73	21.84	19.97	19.23	18.98	19.22	
13	18.28	18.70	19.66	20.02	21.34	23.14	25.68	21.72	20.01	19.29	19.11	19.36	
14	18.31	18.61	19.71	20.02	21.17	23.14	25.64	21.64	19.81	19.27	19.15	19.38	
15	18.29	18.42	19.80	19.92	20.98	23.16	25.58	21.51	19.49	19.03	19.37	19.47	
16	18.16	18.17	19.97	19.80	20.80	23.16	25.52	21.41	19.33	18.78	19.64	19.51	
17	17.99	18.20	20.20	19.70	20.62	23.15	25.44	21.25	19.34	18.74	19.68	19.66	
18	17.95	18.61	20.15	19.59	20.57	23.19	25.36	21.14	19.35	18.72	19.49	19.57	
19	18.10	18.91	20.10	19.57	20.68	23.19	25.28	21.11	19.45	18.61	19.00	19.37	
20	18.27	18.81	20.20	19.56	20.63	23.33	25.22	21.01	19.80	18.40	18.69	19.42	
21	18.32	18.67	20.31	19.60	20.51	23.52	25.14	20.99	19.54	18.30	18.86	19.46	
22	18.27	18.51	20.42	19.76	20.55	23.80	25.05	20.94	19.56	18.29	18.91	19.49	
23	18.26	18.32	20.66	20.06	20.72	23.98	24.96	20.96	19.22	18.23	18.89	19.43	
24	18.15	20.80	21.17	20.29	20.89	24.05	24.86	20.96	18.94	18.48	19.00	19.42	
25	18.14	21.19	21.29	20.60	21.04	24.17	24.74	20.86	18.75	18.86	19.09	19.38	
26	18.21	20.81	21.29	20.86	21.21	24.29	24.61	20.70	18.64	18.96	19.03	19.19	
27	18.24	20.34	21.31	21.17	21.42	24.45	24.40	20.46	18.62	18.86	19.21	19.39	
28	18.21	20.03	21.25	21.69	21.65	24.58	24.31	20.32	18.55	18.81	19.40	19.51	
29	18.18	19.86	21.14	21.93	21.75	24.70	24.18	20.38	18.50	18.76		19.55	
30	18.23	19.75	21.05	22.02	21.77	24.83	23.98	20.37	18.45	18.57		19.64	
31		19.83		22.12	21.76		23.82		18.42	18.73		19.62	
MEAN	18.24	18.93	20.11	20.47	21.52	23.20	25.17	21.63	19.42	18.67	19.14	19.44	
MAX	18.40	21.19	21.31	22.12	22.59	24.83	25.76	23.67	20.20	19.29	19.68	19.66	25.76
MIN	17.95	18.13	19.13	19.56	20.51	21.79	23.82	20.32	18.42	18.23	18.69	19.19	17.95

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.77 M (MSL), AT 24.00 HOURS, ON OCT 9, 1980
ZERO GAGE AT BOTTOM ELEVATION 17.00 M (MSL), RIVER BED 14.66 M (MSL)
LEFT BANK ELEVATION 25.73 M (MSL)
RIGHT BANK ELEVATION 26.23 M (MSL), DRAINAGE AREA 110569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	230.	198.	605.	950.	1454.	1266.	2952.	2095.	680.	235.	348.	486.	
2	219.	191.	527.	939.	1534.	1298.	3117.	1995.	614.	258.	366.	492.	
3	211.	202.	473.	904.	1570.	1346.	3373.	1880.	590.	319.	443.	473.	
4	204.	211.	467.	869.	1586.	1350.	3650.	1770.	563.	312.	483.	445.	
5	221.	197.	416.	831.	1582.	1386.	3783.	1662.	527.	253.	436.	436.	
6	213.	183.	530.	810.	1566.	1438.	3930.	1574.	554.	211.	395.	440.	
7	216.	202.	384.	810.	1526.	1478.	4050.	1486.	566.	214.	366.	438.	
8	228.	218.	402.	760.	1474.	1518.	4200.	1406.	560.	228.	380.	443.	
9	218.	202.	416.	715.	1422.	1590.	4320.	1386.	554.	209.	353.	436.	
10	207.	214.	427.	665.	1338.	1670.	4320.	1358.	548.	235.	346.	445.	
11	195.	237.	456.	635.	1246.	1760.	4290.	1318.	560.	342.	346.	436.	
12	198.	258.	473.	647.	1170.	1820.	4230.	1286.	611.	407.	351.	404.	
13	209.	287.	518.	626.	1086.	1830.	4080.	1238.	623.	420.	380.	436.	
14	214.	267.	533.	626.	1020.	1830.	3960.	1206.	563.	416.	389.	440.	
15	211.	233.	560.	596.	953.	1835.	3802.	1154.	470.	362.	438.	464.	
16	188.	190.	611.	560.	890.	1840.	3688.	1114.	429.	306.	512.	475.	
17	158.	195.	680.	530.	827.	1835.	3536.	1080.	431.	296.	524.	518.	
18	151.	267.	665.	497.	810.	1855.	3402.	1009.	434.	292.	470.	492.	
19	177.	335.	650.	492.	848.	1855.	3286.	998.	459.	267.	355.	438.	
20	207.	312.	680.	489.	831.	1925.	3199.	964.	560.	230.	285.	451.	
21	216.	281.	719.	500.	789.	2020.	3107.	957.	483.	213.	323.	462.	
22	207.	249.	757.	548.	803.	2160.	3012.	939.	489.	211.	335.	470.	
23	205.	382.	911.	638.	862.	2259.	2928.	953.	404.	200.	330.	453.	
24	186.	890.	1020.	712.	922.	2300.	2848.	946.	342.	244.	355.	451.	
25	185.	1027.	1066.	820.	974.	2372.	2752.	911.	299.	323.	375.	440.	
26	197.	894.	1066.	911.	1034.	2438.	2648.	855.	274.	346.	362.	398.	
27	202.	729.	1074.	1020.	1118.	2542.	2510.	771.	270.	323.	402.	443.	
28	197.	629.	1050.	1226.	1210.	2627.	2456.	722.	256.	312.	445.	475.	
29	191.	578.	1009.	1322.	1250.	2720.	2378.	743.	248.	301.		486.	
30	200.	545.	978.	1358.	1258.	2824.	2259.	740.	239.	260.		512.	
31		569.		1398.	1254.		2171.		233.	294.		506.	
TOTAL	6061.	11372.	20123.	24404.	36207.	56987.	104237.	36486.	14433.	8839.	10893.	14184.	344226. CMSDAY
MEAN	202.	367.	671.	787.	1168.	1900.	3362.	1216.	466.	285.	389.	458.	943. CMS
MAX	230.	1027.	1074.	1398.	1586.	2824.	4320.	2095.	680.	420.	524.	518.	4320. CMS
MIN	151.	183.	384.	489.	789.	1266.	2171.	722.	233.	200.	285.	398.	151. CMS
RUNOFF	523.7	982.5	1738.6	2108.5	3128.3	4923.7	9006.1	3152.4	1247.0	763.7	941.2	1225.5	29741.1 MCM

MOMENTARY PEAK 4349.99 CMS, AT 25.77 M (MSL), AT 24.00 HOURS, ON OCT 9, 1980

RUNOFF YIELD 8.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 39.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHAO PHRAYA RIVER BASIN

CHAO PHRAYA RIVER AT BAN BANG KAEO, ANG THONG (C.7A)

LOCATION — LAT. 14°-35'-05" N., LONG. 100°-27'-12" E., ON LEFT BANK ABOUT 150 METERS UPSTREAM FROM C.7, BAN BANG KAEO, AMPHOE MUANG, ANG THONG.

DRAINAGE AREA — FLOOD PLAIN.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 3 METERS NORTH OF THE GAGE SITE.

ELEVATION — +7.085 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1976-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1976-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +7.38 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 289 DISCHARGE MEASUREMENTS MADE DURING 1976, 1978-1979.

REMARKS — ESTIMATED GAGE HEIGHT DURING OCT.5-25, 1980 BY CORRELATION WITH C.15. RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

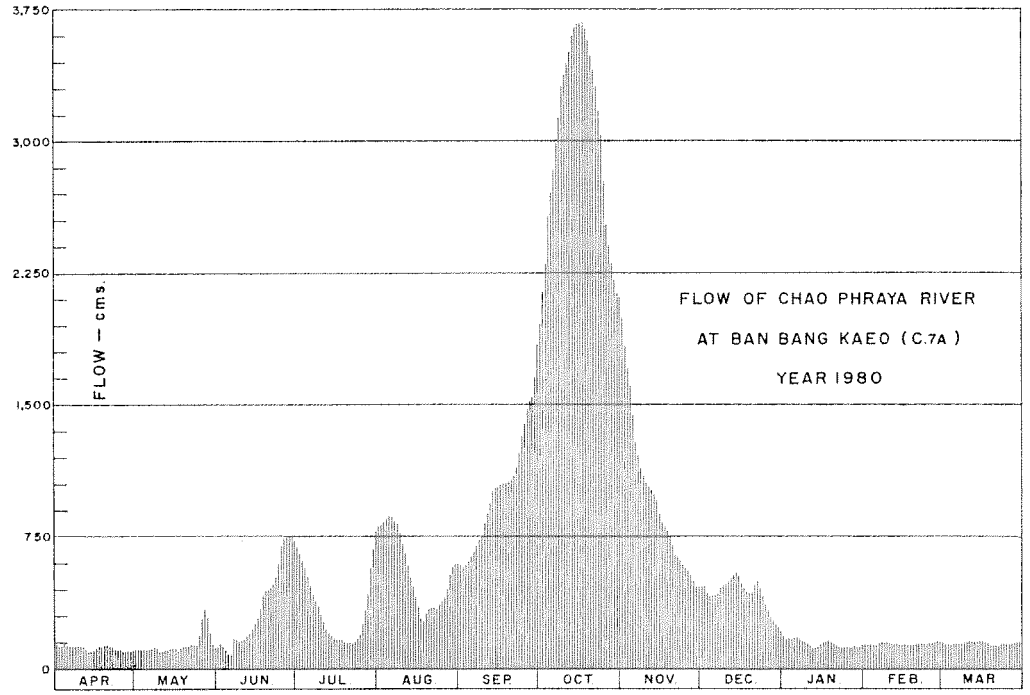
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.39	0.51	3.84	4.40	3.34	6.84	6.88	2.73	0.94	0.63	0.69	
2	0.48	0.38	0.69	3.64	4.40	3.26	6.97	6.74	2.73	0.83	0.64	0.69	
3	0.52	0.41	0.52	3.47	4.52	3.31	7.07	6.64	2.48	0.87	0.62	0.65	
4	0.66	0.41	0.29	3.17	4.63	3.40	7.19	6.51	2.31	0.82	0.58	0.60	
5	0.49	0.42	0.15	2.92	4.69	3.51	7.22	6.30	2.36	0.86	0.58	0.57	
6	0.51	0.39	0.13	2.56	4.65	3.68	7.26	6.02	2.42	0.90	0.72	0.65	
7	0.53	0.44	0.88	2.37	4.53	3.88	7.29	5.87	2.44	0.85	0.74	0.63	
8	0.51	0.47	0.82	2.17	4.49	4.01	7.32	5.71	2.62	0.77	0.70	0.69	
9	0.55	0.43	0.74	2.06	4.24	4.16	7.37	5.55	2.70	0.75	0.72	0.74	
10	0.50	0.30	0.75	1.78	4.02	4.45	7.38	5.42	2.73	0.65	0.65	0.71	
11	0.52	0.33	0.83	1.45	3.76	4.74	7.40	5.34	2.79	0.45	0.64	0.79	
12	0.36	0.31	0.98	1.20	3.39	4.94	7.41	5.27	2.96	0.41	0.65	0.75	
13	0.31	0.36	1.05	1.06	3.01	5.22	7.43	5.14	3.04	0.45	0.66	0.74	
14	0.36	0.42	1.22	0.95	2.64	5.30	7.44	5.03	3.12	0.54	0.62	0.72	
15	0.33	0.44	1.46	0.90	2.34	5.32	7.45	4.75	3.02	0.67	0.54	0.75	
16	0.47	0.44	1.58	0.85	2.02	5.37	7.45	4.51	2.80	0.75	0.59	0.71	
17	0.51	0.32	1.89	0.78	1.65	5.38	7.45	4.41	2.63	0.77	0.55	0.70	
18	0.48	0.38	2.37	0.75	1.50	5.38	7.45	4.28	2.54	0.76	0.55	0.63	
19	0.56	0.50	2.56	0.70	1.64	5.40	7.44	4.09	2.46	0.69	0.63	0.63	
20	0.63	0.48	2.56	0.65	1.88	5.45	7.42	3.86	2.46	0.64	0.60	0.53	
21	0.55	0.54	2.61	0.71	2.02	5.54	7.40	3.62	2.69	0.59	0.56	0.54	
22	0.52	0.65	2.78	0.69	1.99	5.73	7.38	3.58	2.87	0.51	0.61	0.55	
23	0.42	0.60	3.01	0.74	1.93	5.92	7.36	3.46	2.70	0.48	0.63	0.63	
24	0.38	0.57	3.42	0.86	2.11	6.10	7.32	3.32	2.38	0.54	0.61	0.63	
25	0.37	1.07	3.88	1.05	2.21	6.25	7.30	3.24	2.09	0.49	0.66	0.60	
26	0.29	1.74	4.10	1.45	2.35	6.38	7.18	3.17	1.87	0.49	0.72	0.62	
27	0.29	1.95	4.13	1.96	2.64	6.42	7.13	3.03	1.66	0.47	0.71	0.61	
28	0.28	1.59	4.13	2.48	2.87	6.47	7.09	2.87	1.50	0.54	0.78	0.65	
29	0.32	1.12	4.13	3.20	3.23	6.59	7.02	2.65	1.42	0.49		0.69	
30	0.34	0.61	4.00	3.74	3.40	6.73	7.00	2.62	1.30	0.51		0.70	
31		0.46		4.25	3.40		6.97		1.11	0.62		0.70	
MEAN	0.45	0.61	1.94	1.88	3.11	5.05	7.27	4.66	2.42	0.65	0.64	0.66	
MAX	0.66	1.95	4.13	4.25	4.69	6.73	7.45	6.88	3.12	0.94	0.78	0.79	7.45
MIN	0.28	0.30	0.13	0.65	1.50	3.26	6.84	2.62	1.11	0.41	0.54	0.53	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT M (MSL), AT HOURS, ON , 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED -7.45 M (MSL)

LEFT BANK ELEVATION 7.44 M (MSL)

RIGHT BANK ELEVATION 7.38 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	137.0	111.9	126.2	691.4	814.0	592.6	1943.2	1994.4	478.4	181.6	140.9	148.7	
2	122.6	110.8	148.7	650.0	814.0	577.4	2116.0	1824.8	478.4	166.9	142.2	148.7	
3	127.4	114.2	127.4	617.3	841.6	586.9	2286.0	1718.8	433.4	172.1	139.6	143.5	
4	144.8	114.2	101.0	560.3	867.2	604.0	2574.0	1598.8	403.7	165.6	134.6	137.0	
5	123.8	115.4	87.0	512.8	881.6	624.9	2672.0	1438.0	412.2	170.8	134.6	133.4	
6	126.2	111.9	85.0	447.8	872.0	658.0	2816.0	1289.0	422.6	176.0	152.6	143.5	
7	128.6	117.8	173.4	413.9	843.9	699.8	2924.0	1222.7	426.2	169.5	155.2	140.9	
8	126.2	121.4	165.6	379.9	834.7	728.2	3052.0	1159.8	458.6	159.1	150.0	148.7	
9	131.0	116.6	155.2	361.2	778.8	761.2	3282.0	1106.5	473.0	156.5	152.6	155.2	
10	125.0	102.0	156.5	313.6	730.4	825.5	3328.0	1067.8	478.4	143.5	143.5	151.3	
11	127.4	105.3	166.9	258.0	674.6	893.6	3420.0	1045.2	489.2	119.0	142.2	161.7	
12	108.6	103.1	187.2	220.0	602.1	941.6	3470.0	1025.9	520.4	114.2	143.5	156.5	
13	103.1	108.6	197.5	199.0	529.9	1012.4	3570.0	991.4	538.6	119.0	144.8	155.2	
14	108.6	115.4	223.0	183.0	462.2	1034.0	3620.0	963.5	550.8	129.8	139.6	152.6	
15	105.3	117.8	259.6	176.0	408.8	1039.6	3670.0	896.0	531.8	146.1	129.8	156.5	
16	121.4	117.8	279.6	169.5	354.4	1053.6	3670.0	839.3	491.0	156.5	135.8	151.3	
17	126.2	104.2	332.3	160.4	291.5	1056.4	3670.0	816.3	460.4	159.1	131.0	150.0	
18	122.6	110.8	413.9	156.5	266.0	1056.4	3670.0	787.6	444.2	157.8	131.0	140.9	
19	132.2	125.0	447.8	150.0	289.8	1062.0	3620.0	745.8	429.8	148.7	140.9	140.9	
20	140.9	122.6	447.8	143.5	330.6	1076.5	3520.0	695.6	429.8	142.2	137.0	128.6	
21	131.0	129.8	456.8	151.3	354.4	1103.4	3420.0	646.0	471.2	135.8	132.2	129.8	
22	127.4	143.5	487.4	148.7	349.3	1167.4	3328.0	638.2	503.6	126.2	138.3	131.0	
23	115.4	137.0	529.9	155.2	339.1	1244.0	3236.0	615.4	473.0	122.6	140.9	140.9	
24	110.8	133.4	607.8	170.8	369.7	1325.0	3052.0	588.8	415.6	129.8	138.3	140.9	
25	109.7	200.5	699.8	197.5	386.7	1408.0	2960.0	573.6	366.3	123.8	144.8	137.0	
26	101.0	306.8	748.0	258.0	410.5	1492.4	2548.0	560.3	328.9	123.8	152.6	139.6	
27	101.0	342.5	754.6	344.2	462.2	1522.8	2418.0	533.7	293.2	121.4	151.3	138.3	
28	100.0	281.3	754.6	433.4	503.6	1564.8	2322.0	503.6	266.0	129.8	160.4	143.5	
29	104.2	208.0	754.6	566.0	571.7	1669.2	2196.0	464.0	253.2	123.8		148.7	
30	106.4	138.3	726.0	670.4	604.0	1813.6	2160.0	458.6	235.0	126.2		150.0	
31		120.2		781.0	604.0		2118.0		206.5	139.6		150.0	
TOTAL	3595.8	4408.1	10801.1	10640.6	17443.3	31195.2	92653.2	28809.4	13160.4	4456.8	3980.2	4494.8	225638.7 CMSDAY
MEAN	119.9	142.2	360.0	343.2	562.7	1039.8	2988.8	960.3	424.5	143.8	142.1	145.0	618.2 CMS
MAX	144.8	342.5	754.6	781.0	881.6	1813.6	3670.0	1994.4	550.8	181.6	160.4	161.7	3670.0 CMS
MIN	100.0	102.0	85.0	143.5	266.0	577.4	1943.2	458.6	206.5	114.2	129.8	128.6	85.0 CMS
RUNOFF	310.68	380.86	933.21	919.35	1507.10	2695.26	8005.23	2489.13	1137.06	385.07	343.89	388.35	19495.18 MCM

MOMENTARY PEAK CMS, AT M (MSL), AT HOURS, ON , 1980
RUNOFF YIELD LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHAO PHRAYA RIVER BASIN

CHAO PHRAYA RIVER AT BAN RE RAI, CHAI NAT (C.13)

LOCATION: LAT. 15°-09'-57" N., LONG. 100°-11'-32" E., ON LEFT BANK AT WAT PHO NGAM ABOUT 1.5 KILOMETERS DOWNSTREAM FROM CHAO PHRAYA DIVERSION DAM, AMPHOE SANPHAYA, CHAI NAT.

DRAINAGE AREA: 120.693 SQ.KM.

TYPE OF GAGE: STAFF GAGE.

ZERO GAGE AT BOTTOM AT: +6.00 M. (M.S.L.)

BENCH MARK: B.M.-H.D.

LOCATION: ALONG THE GAGE LINE.

ELEVATION: +15.634 M. (M.S.L.)

GAGE READING FREQUENCY: 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT: ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS: 1947 TO DATE.

RATING OPERATION

PERIOD OF RATING: 1953-1962, 1965-1968, 1972, 1975-1976, 1980 TO DATE.

RATED BY FLOAT: -

RATED BY CURRENT METER: 1953-1962, 1965-1968, 1972, 1975-1976, 1980 TO DATE.

STABILITY OF CHANNEL REGIMES: STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

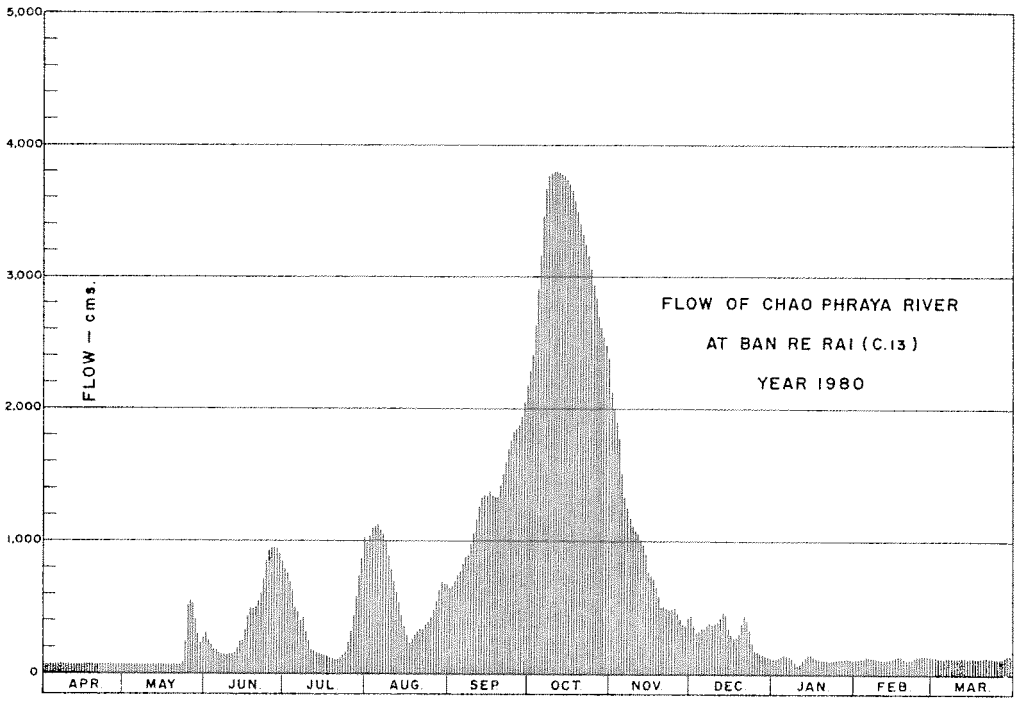
OVERBANK FLOW CONDITIONS: OVERBANK FLOW STARTS AT ELEVATION +15.92 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION: RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 77 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY CHAO PHRAYA DIVERSION DAM AT ABOVE GAGE SITE WHICH DIVERTED FOR IRRIGATION OF ABOUT 979,000 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.49	6.47	8.44	10.39	11.00	9.84	14.21	14.10	9.04	7.01	6.98	7.15	
2	6.50	6.47	8.13	10.27	11.17	9.91	14.46	13.79	8.74	6.97	6.98	7.01	
3	6.50	6.47	7.79	9.93	11.41	10.08	14.79	13.59	8.43	7.05	6.99	7.02	
4	6.49	6.47	7.59	9.72	11.43	10.21	15.26	13.23	8.47	7.23	7.02	7.02	
5	6.49	6.47	7.57	9.18	11.48	10.28	15.70	12.55	8.61	7.34	7.15	7.02	
6	6.49	6.47	7.43	9.14	11.32	10.51	16.13	12.14	8.56	7.31	7.17	7.02	
7	6.49	6.47	7.28	9.91	11.27	10.67	16.51	11.90	8.67	7.19	7.15	7.02	
8	6.50	6.47	7.26	8.88	11.08	10.72	16.70	11.66	8.81	7.01	7.08	7.02	
9	6.50	6.47	7.25	8.46	10.74	11.00	16.74	11.45	8.68	6.70	7.04	7.02	
10	6.48	6.47	7.24	7.98	10.48	11.36	16.75	11.33	8.75	6.48	6.98	7.01	
11	6.44	6.47	7.33	7.63	10.10	11.61	16.74	11.30	8.83	6.52	6.98	7.01	
12	6.44	6.47	7.39	7.46	9.68	11.88	16.75	11.15	8.91	6.88	6.98	7.01	
13	6.44	6.47	7.56	7.40	9.28	12.03	16.75	11.04	9.17	7.21	6.98	7.01	
14	6.44	6.47	8.03	7.37	8.99	12.07	16.73	10.81	9.09	7.32	6.99	7.10	
15	6.44	6.47	8.08	7.32	8.58	12.07	16.70	10.31	8.60	7.35	6.99	7.10	
16	6.44	6.43	8.46	7.28	8.27	12.16	16.67	10.18	8.35	7.19	7.09	7.12	
17	6.44	6.47	9.03	7.20	7.85	12.07	16.63	10.15	8.17	7.06	7.25	7.13	
18	6.43	6.48	9.21	7.09	8.11	12.07	16.55	9.83	8.18	7.01	7.22	7.14	
19	6.44	6.48	9.26	6.97	8.24	12.06	16.45	9.67	8.25	6.99	7.07	7.02	
20	6.47	6.47	9.24	6.94	8.53	12.19	16.32	9.25	8.71	6.82	6.97	7.01	
21	6.44	6.48	9.47	6.99	8.62	12.38	16.20	9.33	9.06	6.81	6.95	7.01	
22	6.47	6.53	9.64	7.15	8.48	12.61	16.06	9.32	8.88	6.80	6.95	7.01	
23	6.47	6.59	10.07	7.27	8.72	12.95	15.99	9.21	8.34	6.81	7.07	7.01	
24	6.47	7.61	10.61	7.46	8.85	13.05	15.89	9.27	7.90	6.84	7.21	7.00	
25	6.47	9.76	10.84	7.93	8.93	13.25	15.71	9.29	7.65	6.86	7.20	7.00	
26	6.47	9.91	10.93	8.57	9.24	13.32	15.47	9.07	7.47	6.98	7.19	7.00	
27	6.47	9.39	10.93	8.99	9.56	13.37	15.18	8.93	7.40	7.00	7.22	6.99	
28	6.47	8.77	10.92	9.78	9.87	13.47	14.98	8.72	7.33	7.00	7.22	7.04	
29	6.47	8.21	10.77	10.34	10.08	13.72	14.82	8.61	7.24	7.00		7.20	
30	6.47	7.86	10.57	10.64	10.05	14.00	14.78	8.97	7.15	6.99		7.22	
31		8.13		11.14	10.02		14.62		7.07	6.98		7.22	
MEAN	6.47	7.05	8.81	8.44	9.72	11.90	15.91	10.67	8.34	6.99	7.07	7.05	
MAX	6.50	9.91	10.93	11.14	11.48	14.00	16.75	14.10	9.17	7.35	7.25	7.22	16.75
MIN	6.43	6.43	7.24	6.94	7.85	9.84	14.21	8.61	7.07	6.48	6.95	6.99	6.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 16.76 M (MSL), AT 16.00 HOURS, ON OCT 12, 1980
ZERO GAGE AT BOTTOM ELEVATION 6.00 M (MSL), RIVER BED 3.28 M (MSL)
LEFT BANK ELEVATION 15.92 M (MSL)
RIGHT BANK ELEVATION 17.02 M (MSL), DRAINAGE AREA 120693 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	69.0	67.0	318.0	797.0	980.0	640.0	2245.0	2190.0	440.0	121.0	118.0	135.0	
2	70.0	67.0	269.5	761.0	1031.0	657.5	2370.0	2045.5	378.0	117.0	118.0	121.0	
3	70.0	67.0	218.5	662.5	1113.5	704.0	2535.0	1956.0	316.0	125.0	119.0	122.0	
4	69.0	67.0	188.5	610.0	1120.5	743.0	2783.0	1812.0	324.0	143.0	122.0	122.0	
5	69.0	67.0	185.5	475.0	1138.0	764.0	3025.0	1540.0	352.0	154.0	135.0	122.0	
6	69.0	67.0	164.5	465.0	1082.0	833.0	3297.5	1376.0	342.0	151.0	137.0	122.0	
7	69.0	67.0	148.0	412.0	1064.5	881.0	3588.0	1285.0	364.0	139.0	135.0	122.0	
8	70.0	67.0	146.0	406.0	1004.0	896.0	3750.0	1201.0	392.0	121.0	128.0	122.0	
9	70.0	67.0	145.0	322.0	902.0	980.0	3786.0	1127.5	366.0	90.0	124.0	122.0	
10	68.0	67.0	144.0	247.0	824.0	1096.0	3795.0	1085.5	380.0	68.0	118.0	121.0	
11	64.0	67.0	153.0	194.5	710.0	1183.5	3786.0	1075.0	396.0	72.0	118.0	121.0	
12	64.0	67.0	159.0	169.0	600.0	1278.0	3795.0	1025.0	412.0	106.0	118.0	121.0	
13	64.0	67.0	184.0	160.0	500.0	1332.0	3795.0	992.0	472.5	141.0	118.0	121.0	
14	64.0	67.0	254.5	157.0	428.0	1348.0	3777.0	923.0	452.5	152.0	119.0	130.0	
15	64.0	67.0	262.0	152.0	346.0	1348.0	3750.0	773.0	350.0	155.0	119.0	130.0	
16	64.0	63.0	322.0	148.0	290.5	1384.0	3723.0	734.0	302.5	139.0	129.0	132.0	
17	64.0	67.0	437.5	140.0	227.5	1348.0	3687.0	725.0	275.5	126.0	145.0	133.0	
18	63.0	68.0	482.5	129.0	266.5	1348.0	3620.0	637.5	277.0	121.0	142.0	134.0	
19	64.0	68.0	495.0	117.0	286.0	1344.0	3540.0	597.5	287.5	119.0	127.0	122.0	
20	67.0	67.0	490.0	114.0	336.0	1396.0	3440.0	492.5	372.0	102.0	117.0	121.0	
21	64.0	68.0	547.5	119.0	354.0	1472.0	3350.0	512.5	445.0	101.0	116.0	121.0	
22	67.0	73.0	590.0	135.0	326.0	1564.0	3245.0	510.0	406.0	100.0	115.0	121.0	
23	67.0	79.0	701.0	147.0	374.0	1700.0	3194.0	482.5	301.0	101.0	127.0	121.0	
24	67.0	191.5	863.0	169.0	400.0	1740.0	3134.0	497.5	235.0	104.0	141.0	120.0	
25	67.0	620.0	932.0	239.5	416.0	1820.0	3030.5	502.5	197.5	106.0	140.0	120.0	
26	67.0	657.5	959.0	344.0	490.0	1848.0	2898.5	447.5	170.5	118.0	139.0	120.0	
27	67.0	527.5	959.0	428.0	570.0	1868.0	2739.0	416.0	160.0	120.0	142.0	119.0	
28	67.0	384.0	956.0	625.0	647.5	1908.0	2630.0	374.0	153.0	120.0	142.0	124.0	
29	67.0	281.5	911.0	782.0	704.0	2014.0	2550.0	352.0	144.0	120.0		140.0	
30	67.0	229.0	851.0	872.0	695.0	2140.0	2530.0	424.0	135.0	119.0		142.0	
31		269.5		1022.0	686.0		2450.0		127.0	118.0		142.0	
TOTAL	2002.0	4718.5	13436.5	11520.5	19912.5	39578.0	99838.5	28111.5	9725.5	3691.0	3567.0	3886.0	239987.5 CMSDAY
MEAN	66.7	152.2	447.9	371.6	642.3	1319.3	3220.6	937.1	313.7	119.1	127.4	125.4	657.5 CMS
MAX	70.0	657.5	959.0	1022.0	1138.0	2140.0	3795.0	2190.0	472.5	155.0	145.0	142.0	3795.0 CMS
MIN	63.0	63.0	144.0	114.0	227.5	640.0	2245.0	352.0	127.0	68.0	115.0	119.0	63.0 CMS
RUNOFF	172.97	407.68	1160.91	995.37	1720.44	3419.54	8626.05	2428.83	840.28	318.90	308.19	335.75	20734.92 MCM

MOMENTARY PEAK 3804.00 CMS, AT 16.76 M (MSL), AT 16.00 HOURS, ON OCT 12, 1980

RUNOFF YIELD 5.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 31.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SAKAE KRANG RIVER BASIN

NAM WANG MA AT BAN SAN CHAO KAI TO, NAKHON SAWAN (CT.4)

LOCATION — LAT. 15°-47'-01" N., LONG. 99°-40'-55" E., ON LEFT BANK NEAR THE GAGE OBSERVER'S HOUSE AT BAN SAN CHAO KAI TO, AMPHOE LAT YAO, NAKHON SAWAN.

DRAINAGE AREA — 1,382 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ON LEFT BANK DOWNSTREAM AT THE FOOT OF THE BRIDGE.

ELEVATION — +5.322 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1975 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1975 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 71 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

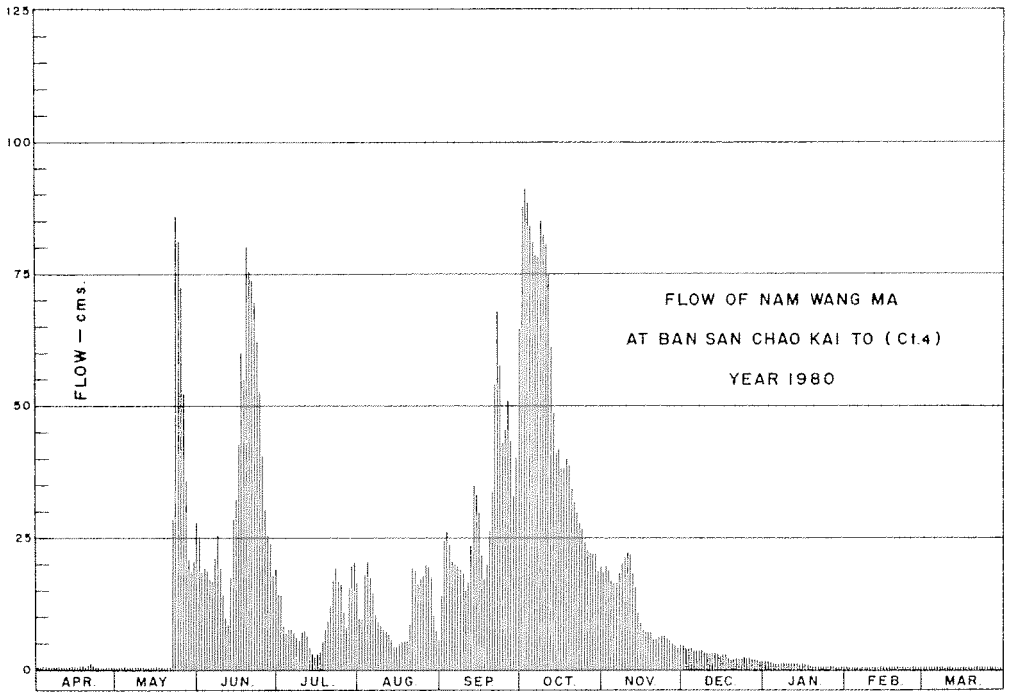
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.34	-0.28	1.65	0.94	0.74	0.92	3.85	1.20	0.41	0.05	-0.27	-0.32	
2	-0.34	-0.29	1.18	0.94	0.74	1.62	4.25	1.30	0.30	0.03	-0.32	-0.30	
3	-0.34	-0.29	1.25	0.66	1.17	1.73	4.37	1.25	0.33	0.00	-0.33	-0.26	
4	-0.36	-0.31	1.22	0.57	1.35	1.50	4.21	1.09	0.36	-0.02	-0.29	-0.22	
5	-0.36	-0.30	1.09	0.64	1.10	1.31	4.11	1.05	0.29	-0.02	-0.30	-0.31	
6	-0.35	-0.30	1.08	0.66	0.96	1.31	4.04	1.02	0.29	-0.03	-0.28	-0.33	
7	-0.36	-0.31	1.38	0.58	0.74	1.27	3.96	1.13	0.29	-0.02	-0.31	-0.34	
8	-0.34	-0.31	1.69	0.53	0.73	1.25	3.98	1.26	0.30	-0.01	-0.27	-0.22	
9	-0.32	-0.32	1.24	0.48	0.65	1.19	4.18	1.41	0.24	-0.02	-0.28	-0.31	
10	-0.31	-0.32	0.93	0.59	0.64	0.98	4.09	1.46	0.25	-0.01	-0.31	-0.26	
11	-0.30	-0.30	0.75	0.61	0.62	1.08	3.90	1.42	0.25	-0.03	-0.25	-0.29	
12	-0.32	-0.30	0.70	0.53	0.55	1.59	3.45	1.19	0.26	-0.03	-0.30	-0.31	
13	-0.32	-0.31	0.95	0.24	0.48	2.23	2.92	0.99	0.28	-0.02	-0.31	-0.31	
14	-0.32	-0.33	1.86	0.24	0.35	2.15	2.53	0.79	0.26	-0.03	-0.32	-0.31	
15	-0.31	-0.31	2.07	0.13	0.35	1.92	2.58	0.69	0.16	-0.05	-0.30	-0.25	
16	-0.32	-0.32	2.56	0.22	0.42	1.45	2.41	0.63	0.25	-0.06	-0.26	-0.18	
17	-0.28	-0.34	3.32	0.27	0.44	1.11	2.40	0.60	0.23	-0.08	-0.25	-0.23	
18	-0.28	-0.35	3.12	0.39	0.47	1.30	2.49	0.60	0.10	-0.10	-0.28	-0.30	
19	-0.28	-0.30	4.04	0.61	0.48	1.67	2.43	0.60	0.09	-0.13	-0.32	-0.31	
20	-0.14	-0.23	3.87	0.73	0.70	1.96	2.24	0.50	0.11	-0.15	-0.33	-0.31	
21	-0.08	-0.26	3.81	0.84	1.25	3.00	2.08	0.52	0.12	-0.17	-0.33	-0.32	
22	-0.15	1.92	3.60	1.07	1.21	3.62	1.97	0.54	0.12	-0.20	-0.32	-0.32	
23	-0.20	4.22	3.27	1.26	1.01	3.26	1.83	0.55	0.09	-0.24	-0.30	-0.33	
24	-0.16	4.07	2.87	1.05	1.10	2.62	1.76	0.56	0.14	-0.27	-0.27	-0.33	
25	-0.22	3.69	2.38	1.03	1.16	2.74	1.59	0.52	0.10	-0.27	-0.32	-0.33	
26	-0.26	2.48	1.97	0.80	1.31	2.97	1.48	0.48	0.14	-0.29	-0.29	-0.31	
27	-0.28	2.25	1.67	0.67	1.24	2.68	1.46	0.45	0.10	-0.30	-0.31	-0.31	
28	-0.28	1.33	1.55	1.00	1.08	2.13	1.45	0.40	0.07	-0.29	-0.27	-0.29	
29	-0.26	1.22	1.17	1.26	0.75	2.49	1.45	0.33	0.07	-0.27		-0.31	
30	-0.31	1.26	1.25	1.34	0.64	3.06	1.26	0.39	0.06	-0.29		-0.34	
31		1.85		1.00	0.49		1.28		0.06	-0.30		-0.34	
MEAN	-0.28	0.58	1.98	0.71	0.80	1.94	2.77	0.83	0.20	-0.12	-0.30	-0.30	
MAX	-0.08	4.22	4.04	1.34	1.35	3.62	4.37	1.46	0.41	0.05	-0.25	-0.18	4.37
MIN	-0.36	-0.35	0.70	0.13	0.35	0.92	1.26	0.33	0.06	-0.30	-0.33	-0.34	-0.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.40 M (A.D.), AT 6.00 HOURS, ON OCT 3, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.08 M (A.D.)

LEFT BANK ELEVATION 4.54 M (A.D.)

RIGHT BANK ELEVATION 4.39 M (A.D.), DRAINAGE AREA 1382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.08	25.20	14.32	9.68	13.76	74.65	18.60	4.92	1.90	0.12	0.00	
2	0.00	0.04	18.32	14.32	9.68	24.72	87.25	20.00	3.80	1.78	0.00	0.00	
3	0.00	0.04	19.30	8.24	18.18	26.48	91.21	19.30	4.10	1.60	0.00	0.16	
4	0.00	0.00	18.88	6.98	20.70	22.80	85.93	17.08	4.40	1.48	0.04	0.32	
5	0.00	0.00	17.08	7.96	17.20	20.14	82.63	16.60	3.72	1.48	0.00	0.00	
6	0.00	0.00	16.96	8.24	14.88	20.14	80.32	16.24	3.72	1.42	0.08	0.00	
7	0.00	0.00	21.12	7.12	9.68	19.58	77.84	17.62	3.72	1.48	0.00	0.00	
8	0.00	0.00	25.84	6.42	9.46	19.30	78.42	19.44	3.80	1.54	0.12	0.32	
9	0.00	0.00	19.16	5.76	8.10	18.46	84.94	21.54	3.32	1.48	0.08	0.00	
10	0.00	0.00	14.04	7.26	7.96	15.44	81.97	22.24	3.40	1.54	0.00	0.16	
11	0.00	0.00	9.90	7.54	7.68	16.96	76.10	21.68	3.40	1.42	0.20	0.04	
12	0.00	0.00	8.80	6.42	6.70	24.24	63.70	18.46	3.48	1.42	0.00	0.00	
13	0.00	0.00	14.60	3.32	5.76	35.00	49.92	15.72	3.64	1.48	0.00	0.00	
14	0.00	0.00	28.56	3.32	4.30	33.40	41.06	10.78	3.48	1.42	0.00	0.00	
15	0.00	0.00	31.92	2.44	4.30	29.52	42.16	8.66	2.68	1.30	0.00	0.20	
16	0.00	0.00	41.72	3.16	5.04	22.10	38.60	7.82	3.40	1.24	0.16	0.52	
17	0.08	0.00	60.32	3.56	5.28	17.34	38.40	7.40	3.24	1.12	0.20	0.28	
18	0.08	0.00	55.12	4.70	5.64	20.00	40.20	7.40	2.20	1.00	0.08	0.00	
19	0.08	0.00	80.32	7.54	5.76	25.52	39.00	7.40	2.14	0.82	0.00	0.00	
20	0.76	0.28	75.23	9.46	8.80	30.16	35.20	6.00	2.28	0.70	0.00	0.00	
21	1.12	0.16	73.49	11.88	19.30	52.00	32.08	6.28	2.36	0.58	0.00	0.00	
22	0.70	29.52	67.60	16.84	18.74	68.14	30.32	6.56	2.36	0.40	0.00	0.00	
23	0.40	86.26	59.02	19.44	16.12	58.76	28.08	6.70	2.14	0.24	0.00	0.00	
24	0.64	81.31	48.71	16.60	17.20	43.04	26.96	6.84	2.52	0.12	0.12	0.00	
25	0.32	70.03	38.00	16.36	18.04	45.72	24.24	6.28	2.20	0.12	0.00	0.00	
26	0.16	40.00	30.32	11.00	20.14	51.22	22.52	5.76	2.52	0.04	0.04	0.00	
27	0.08	35.40	25.52	8.38	19.16	44.36	22.34	5.40	2.20	0.00	0.00	0.00	
28	0.08	20.42	23.60	16.00	16.96	33.00	22.10	4.80	2.02	0.04	0.12	0.04	
29	0.16	18.88	18.18	19.44	9.90	40.20	22.10	4.10	2.02	0.12		0.00	
30	0.00	19.44	19.30	20.56	7.96	53.56	19.44	4.70	1.96	0.04		0.00	
31		28.40		16.00	5.88		19.72		1.96	0.00		0.00	
TOTAL	4.66	430.26	1006.13	310.58	354.18	945.06	1559.30	357.40	93.10	29.32	1.36	2.04	5093.38 CMSDAY
MEAN	0.16	13.88	33.54	10.02	11.43	31.50	50.30	11.91	3.00	0.95	0.05	0.07	13.95 CMS
MAX	1.12	86.26	80.32	20.56	20.70	68.14	91.21	22.24	4.92	1.90	0.20	0.52	91.21 CMS
MIN	0.00	0.00	8.80	2.44	4.30	13.76	19.44	4.10	1.96	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.403	37.174	86.930	26.834	30.601	81.653	134.723	30.879	8.044	2.533	0.118	0.176	440.068 MCM

MOMENTARY PEAK 92.20 CMS, AT 4.40 M (A.D), AT 6.00 HOURS, ON OCT 3, 1980

RUNOFF YIELD 10.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 66.71 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SAKAE KRANG RIVER BASIN

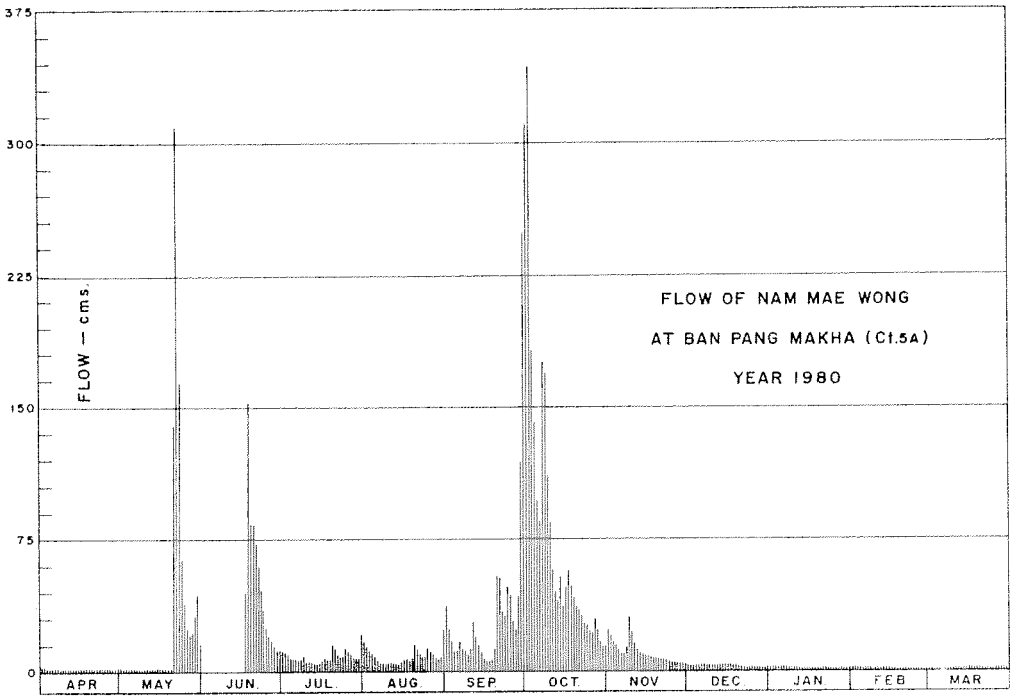
MAE WONG AT BAN PANG MAKHA, KAMPHAENG PHET (CT.5A)

LOCATION	LAT. 15-54-10 N., LONG. 99-28-45 E., ON LEFT BANK BEHIND WAT PANG MAKHA, AMPHOE KHANU WORALAKSABURI, KAMPHAENG PHET.
DRAINAGE AREA	833 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-R.I.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+4.20 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +4.17 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 95 DISCHARGE MEASUREMENTS MADE IN 1980.
REMARKS	THE STAFF GAGE WAS DAMAGED DURING JUN.1-16, 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.23	*******	1.07	0.98	1.53	3.59	1.32	0.76	0.61	0.55	0.46	
2	0.27	0.23	*******	1.04	1.19	1.27	3.97	1.22	0.76	0.61	0.55	0.46	
3	0.42	0.23	*******	0.99	1.14	1.15	3.03	1.16	0.75	0.61	0.55	0.46	
4	0.42	0.22	*******	0.95	1.07	1.08	2.55	1.12	0.75	0.61	0.54	0.45	
5	0.37	0.22	*******	0.95	1.00	1.08	2.24	1.08	0.74	0.61	0.54	0.45	
6	0.33	0.22	*******	0.92	0.93	1.18	2.09	1.04	0.74	0.60	0.54	0.45	
7	0.31	0.22	*******	0.90	0.88	1.09	2.89	1.01	0.73	0.60	0.54	0.45	
8	0.31	0.23	*******	0.89	0.84	1.09	2.82	1.12	0.73	0.60	0.54	0.45	
9	0.29	0.22	*******	0.97	0.83	1.01	2.30	1.43	0.72	0.59	0.54	0.45	
10	0.27	0.21	*******	0.83	0.83	1.05	2.01	1.27	0.72	0.59	0.54	0.45	
11	0.27	0.22	*******	0.79	0.86	1.39	1.80	1.14	0.71	0.59	0.54	0.45	
12	0.26	0.21	*******	0.77	0.81	1.15	1.66	1.08	0.71	0.59	0.53	0.45	
13	0.25	0.23	*******	0.75	0.81	1.13	1.58	1.03	0.70	0.58	0.52	0.44	
14	0.25	0.22	*******	0.73	0.79	1.01	1.74	1.00	0.70	0.58	0.51	0.44	
15	0.25	0.19	*******	0.72	0.81	0.94	1.53	1.00	0.69	0.58	0.50	0.44	
16	0.25	0.21	*******	0.78	0.88	0.89	1.67	0.98	0.69	0.58	0.50	0.44	
17	0.27	0.24	1.64	0.81	0.93	0.86	1.79	0.96	0.68	0.58	0.49	0.44	
18	0.26	0.24	2.71	0.98	0.88	0.88	1.68	0.95	0.68	0.57	0.49	0.43	
19	0.26	0.23	2.08	0.88	0.93	1.09	1.59	0.94	0.67	0.57	0.49	0.43	
20	0.43	0.25	2.10	0.81	1.16	1.75	1.50	0.92	0.67	0.57	0.49	0.43	
21	0.37	2.16	1.95	0.81	1.10	1.73	1.49	0.91	0.66	0.57	0.49	0.43	
22	0.34	3.77	1.79	0.90	1.00	1.47	1.39	0.88	0.65	0.57	0.49	0.42	
23	0.30	2.85	1.66	1.12	0.95	1.45	1.38	0.86	0.64	0.57	0.49	0.42	
24	0.28	1.87	1.47	1.04	0.98	1.68	1.35	0.84	0.64	0.57	0.49	0.42	
25	0.27	1.48	1.33	0.91	1.13	1.62	1.27	0.82	0.64	0.57	0.49	0.42	
26	0.26	1.28	1.23	0.87	1.06	1.41	1.30	0.81	0.63	0.57	0.48	0.42	
27	0.26	1.27	1.16	1.01	1.01	1.30	1.42	0.80	0.62	0.56	0.47	0.42	
28	0.25	1.29	1.12	1.14	0.95	1.55	1.26	0.79	0.62	0.56	0.46	0.42	
29	0.25	1.46	1.09	1.16	0.91	2.36	1.17	0.78	0.61	0.56		0.42	
30	0.25	1.62	1.08	1.05	0.94	3.10	1.12	0.77	0.61	0.56		0.42	
31		1.17		0.98	1.28		1.12		0.61	0.56		0.42	
MEAN	0.29	0.80	*******	0.92	0.96	1.34	1.88	1.00	0.68	0.58	0.51	0.44	
MAX	0.43	3.77	2.71	1.16	1.28	3.10	3.97	1.43	0.76	0.61	0.55	0.46	3.97
MIN	0.25	0.19	*******	0.72	0.79	0.86	1.12	0.77	0.61	0.56	0.46	0.42	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.35 M (A.D), AT 12.00 HOURS, ON MAY 22, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.04 M (A.D)
LEFT BANK ELEVATION 6.47 M (A.D)
RIGHT BANK ELEVATION 4.17 M (A.D), DRAINAGE AREA 833 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.15	*******	12.10	9.40	37.10	280.75	24.20	4.40	2.15	1.75	1.30	
2	0.35	0.15	*******	11.20	17.50	21.50	342.24	19.00	4.40	2.15	1.75	1.30	
3	1.10	0.15	*******	9.70	15.00	15.50	196.20	16.00	4.25	2.15	1.75	1.30	
4	1.10	0.10	*******	8.50	12.10	12.40	134.00	14.00	4.25	2.15	1.70	1.25	
5	0.85	0.10	*******	8.50	10.00	12.40	100.00	12.40	4.10	2.15	1.70	1.25	
6	0.65	0.10	*******	7.60	7.90	17.00	85.00	11.20	4.10	2.00	1.70	1.25	
7	0.55	0.10	*******	7.00	6.60	12.70	176.60	10.30	3.95	2.00	1.70	1.25	
8	0.55	0.15	*******	6.80	5.80	12.70	166.80	14.00	3.95	2.00	1.70	1.25	
9	0.45	0.10	*******	9.10	5.60	10.30	106.00	30.80	3.80	1.95	1.70	1.25	
10	0.35	0.05	*******	5.60	5.50	11.50	77.00	21.50	3.80	1.95	1.70	1.25	
11	0.35	0.10	*******	4.85	6.20	28.40	58.00	15.00	3.65	1.95	1.70	1.25	
12	0.30	0.05	*******	4.55	5.20	15.50	46.80	12.40	3.65	1.95	1.65	1.25	
13	0.25	0.15	*******	4.25	5.20	14.50	40.60	10.90	3.50	1.90	1.60	1.20	
14	0.25	0.10	*******	3.95	4.85	10.30	53.20	10.00	3.50	1.90	1.55	1.20	
15	0.25	0.00	*******	3.80	5.20	8.20	37.10	10.00	3.35	1.90	1.50	1.20	
16	0.25	0.05	*******	4.70	6.60	6.80	47.60	9.40	3.35	1.90	1.50	1.20	
17	0.35	0.20	45.20	5.20	7.90	6.20	57.20	8.80	3.20	1.90	1.45	1.20	
18	0.30	0.20	153.20	9.40	6.60	6.60	48.40	8.50	3.20	1.85	1.45	1.15	
19	0.30	0.15	84.00	6.60	7.90	12.70	41.30	8.20	3.05	1.85	1.45	1.15	
20	1.15	0.25	86.00	5.20	16.00	54.00	35.00	7.60	3.05	1.85	1.45	1.15	
21	0.85	92.00	71.00	5.20	13.00	52.40	34.40	7.30	2.90	1.85	1.45	1.15	
22	0.70	309.87	57.20	7.00	10.00	33.20	28.40	6.60	2.75	1.85	1.45	1.10	
23	0.50	171.00	46.80	14.00	8.50	32.00	27.80	6.20	2.60	1.85	1.45	1.10	
24	0.40	63.60	33.20	11.20	9.40	48.40	26.00	5.80	2.60	1.85	1.45	1.10	
25	0.35	38.80	24.80	7.30	14.50	43.60	21.50	5.40	2.60	1.85	1.45	1.10	
26	0.30	22.00	19.50	6.40	11.80	29.60	23.00	5.20	2.45	1.85	1.40	1.10	
27	0.30	21.50	16.00	10.30	10.30	23.00	30.20	5.00	2.30	1.80	1.35	1.10	
28	0.25	22.50	14.00	15.00	8.50	38.50	21.00	4.85	2.30	1.80	1.30	1.10	
29	0.25	32.60	12.70	16.00	7.30	112.00	16.50	4.70	2.15	1.80		1.10	
30	0.25	43.60	12.40	11.50	8.20	206.00	14.00	4.55	2.15	1.80		1.10	
31		16.50		9.40	22.00		14.00		2.15	1.80		1.10	
TOTAL	14.20	831.37	*******	251.90	290.65	945.00	2386.59	329.80	101.45	59.70	43.75	36.75	******** CMSDAY
MEAN	0.47	26.82	*******	8.13	9.38	31.50	76.99	10.99	3.27	1.93	1.56	1.19	******* CMS
MAX	1.15	309.87	153.20	16.00	22.00	206.00	342.24	30.80	4.40	2.15	1.75	1.30	342.24 CMS
MIN	0.25	0.00	*******	3.80	4.85	6.20	14.00	4.55	2.15	1.80	1.30	1.10	******* CMS
RUNOFF	1.227	71.830	*******	21.764	25.112	81.648	206.201	28.495	8.765	5.158	3.780	3.175	******** MCM

MOMENTARY PEAK 403.73 CMS, AT 4.35 M (A.D), AT 12.00 HOURS, ON MAY 22, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 484.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SAKAE KRANG RIVER BASIN

KHLONG PHO AT BAN HANG RAI, NAKHON SAWAN (CT.7)

LOCATION — LAT. 15°-38'-23" N., LONG. 99°-32'-20" E., ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE, BAN HANG RAI, AMPHOE LAT YAO, NAKHON SAWAN.

DRAINAGE AREA — 398 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — +4.660 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1975 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1975 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1975 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 97 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW WAS EFFECTED BY THE CONSTRUCTION OF DAM UPSTREAM.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-MAY 20, 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

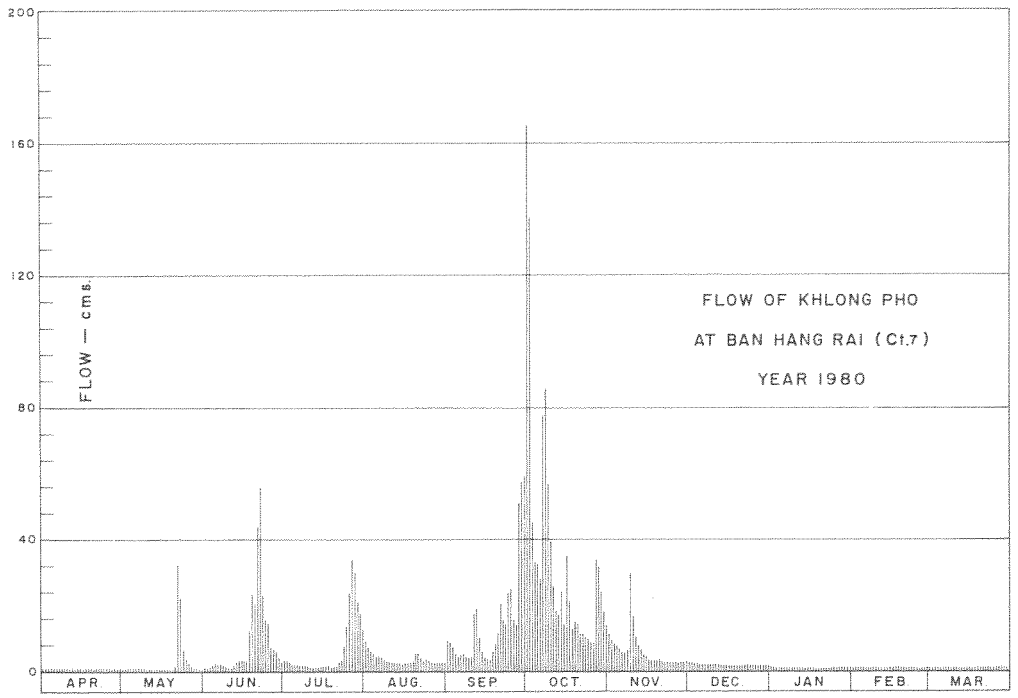
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.20	0.58	0.79	1.10	1.09	3.97	1.16	0.69	0.57	0.53	0.50	
2	0.20	0.20	0.50	0.75	0.98	1.08	3.59	1.08	0.69	0.57	0.53	0.51	
3	0.20	0.20	0.54	0.69	0.95	0.96	2.11	1.06	0.68	0.57	0.53	0.51	
4	0.20	0.20	0.63	0.65	0.90	0.88	1.83	1.04	0.67	0.56	0.52	0.51	
5	0.20	0.20	0.67	0.63	0.88	0.86	1.82	1.00	0.66	0.56	0.52	0.51	
6	0.20	0.20	0.67	0.63	0.88	0.89	1.69	0.95	0.65	0.56	0.52	0.51	
7	0.20	0.20	0.64	0.61	0.85	0.91	2.69	0.93	0.65	0.56	0.52	0.51	
8	0.20	0.20	0.59	0.60	0.78	0.87	2.85	0.94	0.65	0.56	0.52	0.50	
9	0.20	0.20	0.54	0.59	0.74	0.84	2.33	1.75	0.65	0.56	0.52	0.50	
10	0.20	0.20	0.53	0.58	0.71	0.83	1.98	1.29	0.64	0.55	0.52	0.50	
11	0.20	0.20	0.50	0.56	0.70	1.40	1.61	1.09	0.64	0.55	0.52	0.50	
12	0.20	0.20	0.60	0.56	0.67	1.46	1.46	1.02	0.64	0.55	0.52	0.50	
13	0.20	0.20	0.72	0.55	0.68	1.11	1.39	0.96	0.64	0.54	0.52	0.50	
14	0.20	0.20	0.76	0.54	0.68	0.94	1.61	0.92	0.65	0.54	0.52	0.50	
15	0.20	0.20	0.78	0.55	0.66	0.86	1.30	0.88	0.63	0.54	0.52	0.50	
16	0.20	0.20	0.78	0.53	0.70	0.83	1.89	0.81	0.62	0.54	0.52	0.50	
17	0.20	0.20	0.75	0.55	0.69	0.77	1.46	0.81	0.62	0.54	0.52	0.50	
18	0.20	0.20	1.27	0.57	0.72	0.99	1.27	0.80	0.61	0.54	0.52	0.50	
19	0.20	0.20	1.59	0.56	0.72	1.05	1.33	0.79	0.61	0.54	0.52	0.50	
20	0.20	0.20	1.49	0.55	0.93	1.20	1.29	0.77	0.60	0.54	0.52	0.50	
21	0.20	0.58	1.88	0.57	0.93	1.53	1.21	0.76	0.60	0.54	0.52	0.50	
22	0.20	1.82	2.33	0.74	0.83	1.33	1.20	0.75	0.60	0.54	0.52	0.50	
23	0.20	1.49	1.61	0.79	0.78	1.25	1.17	0.73	0.60	0.54	0.51	0.50	
24	0.20	0.95	1.33	1.00	0.76	1.60	1.15	0.71	0.59	0.53	0.51	0.50	
25	0.20	0.77	1.17	1.28	0.77	1.63	1.07	0.71	0.58	0.53	0.51	0.50	
26	0.20	0.67	1.03	1.62	0.75	1.34	1.04	0.70	0.58	0.53	0.51	0.50	
27	0.20	0.58	1.00	1.86	0.75	1.28	1.86	0.70	0.58	0.53	0.51	0.50	
28	0.20	0.47	0.95	1.79	0.75	2.20	1.77	0.69	0.58	0.53	0.51	0.50	
29	0.20	0.39	0.88	1.53	0.67	2.35	1.55	0.69	0.57	0.53		0.50	
30	0.20	0.40	0.74	1.44	0.68	2.38	1.44	0.68	0.57	0.53		0.50	
31		0.44		1.27	0.75		1.29		0.57	0.53		0.50	
MEAN	0.20	0.41	0.93	0.84	0.79	1.22	1.75	0.91	0.62	0.55	0.52	0.50	
MAX	0.20	1.82	2.33	1.86	1.10	2.38	3.97	1.75	0.69	0.57	0.53	0.51	3.97
MIN	0.20	0.20	0.50	0.53	0.66	0.77	1.04	0.68	0.57	0.53	0.51	0.50	0.20

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.22 M (A.D), AT 16.00 HOURS, ON OCT 1, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.20 M (A.D)

LEFT BANK ELEVATION — 4.81 M (A.D)

RIGHT BANK ELEVATION — 4.59 M (A.D), DRAINAGE AREA — 398 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	1.62	3.51	9.20	8.98	165.25	10.70	2.61	1.53	1.17	0.90	
2	0.00	0.00	0.90	3.15	6.62	8.76	137.30	8.76	2.61	1.53	1.17	0.99	
3	0.00	0.00	1.26	2.61	6.05	6.24	45.00	8.32	2.52	1.53	1.17	0.99	
4	0.00	0.00	2.07	2.25	5.10	4.80	32.77	7.88	2.43	1.44	1.08	0.99	
5	0.00	0.00	2.43	2.07	4.80	4.50	32.38	7.00	2.34	1.44	1.08	0.99	
6	0.00	0.00	2.43	2.07	4.80	4.95	27.42	6.05	2.25	1.44	1.08	0.99	
7	0.00	0.00	2.16	1.89	4.35	5.29	75.90	5.67	2.25	1.44	1.08	0.99	
8	0.00	0.00	1.71	1.80	3.42	4.65	85.75	5.86	2.25	1.44	1.08	0.90	
9	0.00	0.00	1.26	1.71	3.06	4.20	56.00	29.70	2.25	1.44	1.08	0.90	
10	0.00	0.00	1.17	1.62	2.79	4.05	39.10	13.95	2.16	1.35	1.08	0.90	
11	0.00	0.00	0.90	1.44	2.70	17.20	24.38	8.98	2.16	1.35	1.08	0.90	
12	0.00	0.00	1.80	1.44	2.43	19.00	19.00	7.44	2.16	1.35	1.08	0.90	
13	0.00	0.00	2.88	1.35	2.52	9.45	16.90	6.24	2.16	1.26	1.08	0.90	
14	0.00	0.00	3.24	1.26	2.52	5.86	24.38	5.48	2.25	1.26	1.08	0.90	
15	0.00	0.00	3.42	1.35	2.34	4.50	14.20	4.80	2.07	1.26	1.08	0.90	
16	0.00	0.00	3.42	1.17	2.70	4.05	35.11	3.75	1.98	1.26	1.08	0.90	
17	0.00	0.00	3.15	1.35	2.61	3.33	19.00	3.75	1.98	1.26	1.08	0.90	
18	0.00	0.00	13.45	1.53	2.88	6.81	13.45	3.60	1.89	1.26	1.08	0.90	
19	0.00	0.00	23.62	1.44	2.88	8.10	15.10	3.51	1.89	1.26	1.08	0.90	
20	0.00	0.00	19.90	1.35	5.67	11.70	13.95	3.33	1.80	1.26	1.08	0.90	
21	0.00	1.62	34.72	1.53	5.67	21.34	11.95	3.24	1.80	1.26	1.08	0.90	
22	0.00	32.38	56.00	3.06	4.05	15.10	11.70	3.15	1.80	1.26	1.08	0.90	
23	0.00	19.90	24.38	3.51	3.42	12.95	10.95	2.97	1.80	1.26	0.99	0.90	
24	0.00	6.05	15.10	7.00	3.24	24.00	10.45	2.79	1.71	1.17	0.99	0.90	
25	0.00	3.33	10.95	13.70	3.33	25.14	8.54	2.79	1.62	1.17	0.99	0.90	
26	0.00	2.43	7.66	24.76	3.15	15.40	7.88	2.70	1.62	1.17	0.99	0.90	
27	0.00	1.62	7.00	33.94	3.15	13.70	33.94	2.70	1.62	1.17	0.99	0.90	
28	0.00	0.63	6.05	31.22	3.15	49.50	30.46	2.61	1.62	1.17	0.99	0.90	
29	0.00	0.00	4.80	21.34	2.43	57.00	22.10	2.61	1.53	1.17		0.90	
30	0.00	0.00	3.06	18.40	2.52	58.50	18.40	2.52	1.53	1.17		0.90	
31		0.36		13.45	3.15		13.95		1.53	1.17		0.90	
TOTAL	0.00	68.32	262.51	208.27	116.70	439.05	1072.66	182.85	62.19	40.50	29.97	28.44	2511.46 CMSDAY
MEAN	0.00	2.20	8.75	6.72	3.76	14.63	34.60	6.09	2.01	1.31	1.07	0.92	6.88 CMS
MAX	0.00	32.38	56.00	33.94	9.20	58.50	165.25	29.70	2.61	1.53	1.17	0.99	165.25 CMS
MIN	0.00	0.00	0.90	1.17	2.34	3.33	7.88	2.52	1.53	1.17	0.99	0.90	0.00 CMS
RUNOFF	0.000	5.903	22.681	17.995	10.083	37.934	92.678	15.798	5.373	3.499	2.589	2.457	216.990 MCM

MOMENTARY PEAK 184.00 CMS, AT 4.22 M (A.D), AT 16.00 HOURS, ON OCT 1, 1980

RUNOFF YIELD 17.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 462.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SAKAE KRANG RIVER BASIN

HUAI THAP SALAO AT BAN BUNG AI CHIAM, UTHAI THANI (CT.9)

LOCATION — LAT. 15°-31'-38" N., LONG. 99°-28'-10" E., ON LEFT BANK ABOUT 9 KILOMETERS UPSTREAM FROM CT.6, BAN BUNG AI CHIAM, KING AMPHOE LAN SAK, UTHAI THANI.

DRAINAGE AREA — 387 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +4.611 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +3.70 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 136 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

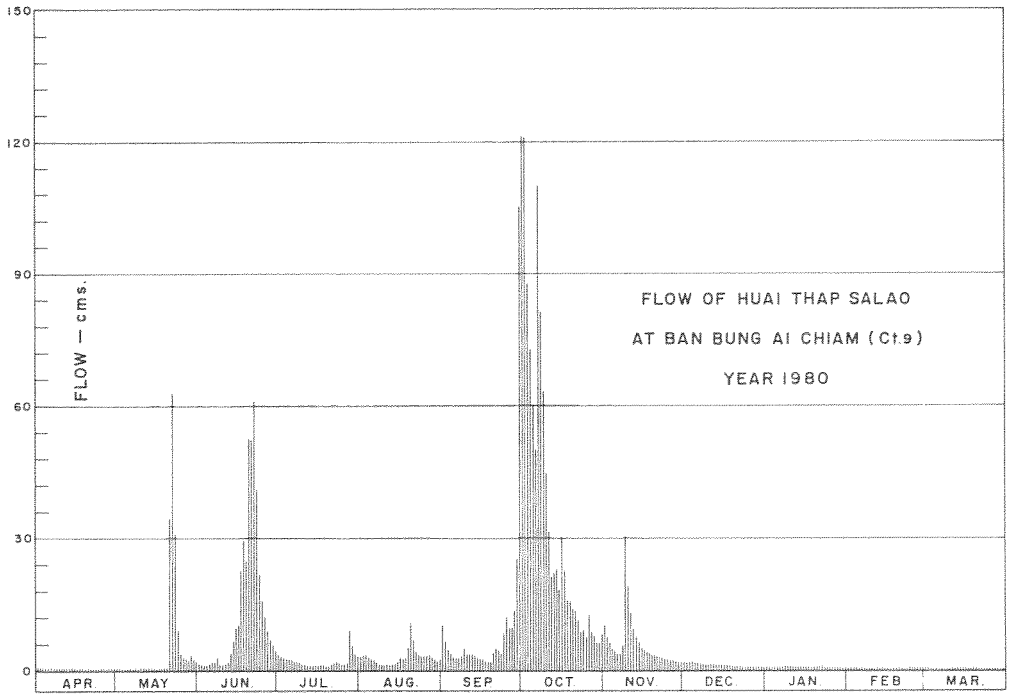
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.35	0.77	1.05	0.96	1.49	4.04	1.48	0.83	0.61	0.52	0.51	
2	0.35	0.35	0.72	1.01	1.07	1.23	4.03	1.30	0.81	0.61	0.52	0.51	
3	0.35	0.35	0.69	0.96	1.04	1.11	3.41	1.21	0.80	0.60	0.52	0.50	
4	0.35	0.35	0.69	0.92	0.96	1.05	3.24	1.15	0.80	0.59	0.51	0.49	
5	0.35	0.35	0.73	0.88	0.90	1.01	3.07	1.13	0.78	0.59	0.51	0.48	
6	0.35	0.35	0.83	0.89	0.86	1.01	2.78	1.10	0.77	0.59	0.51	0.48	
7	0.35	0.35	0.79	0.84	0.81	0.98	3.87	1.05	0.76	0.59	0.53	0.48	
8	0.35	0.35	0.93	0.82	0.76	0.97	3.22	1.18	0.75	0.58	0.52	0.50	
9	0.35	0.35	0.76	0.78	0.73	1.15	3.07	2.26	0.75	0.58	0.52	0.49	
10	0.35	0.35	0.71	0.75	0.70	1.09	2.61	1.69	0.74	0.57	0.51	0.49	
11	0.35	0.35	0.74	0.73	0.68	1.08	2.19	1.47	0.73	0.57	0.51	0.49	
12	0.35	0.35	0.82	0.73	0.71	1.05	1.94	1.36	0.72	0.57	0.50	0.51	
13	0.35	0.35	0.98	0.70	0.70	0.99	1.97	1.27	0.72	0.57	0.50	0.52	
14	0.35	0.35	1.18	0.70	0.71	0.94	2.02	1.21	0.72	0.56	0.49	0.54	
15	0.35	0.35	1.44	0.69	0.83	0.89	1.82	1.16	0.71	0.56	0.49	0.53	
16	0.35	0.35	1.45	0.68	0.98	0.85	2.26	1.12	0.71	0.56	0.48	0.52	
17	0.35	0.35	2.01	0.73	0.90	0.82	1.90	1.09	0.70	0.56	0.47	0.51	
18	0.35	0.35	2.24	0.69	0.95	0.80	1.72	1.07	0.69	0.55	0.47	0.50	
19	0.35	0.35	2.06	0.67	1.15	0.79	1.74	1.04	0.67	0.55	0.46	0.49	
20	0.35	0.36	2.86	0.65	1.51	1.09	1.62	1.01	0.67	0.55	0.46	0.48	
21	0.35	2.18	2.85	0.71	1.25	1.14	1.62	0.99	0.67	0.55	0.46	0.47	
22	0.35	3.07	3.03	0.80	1.09	1.11	1.49	0.97	0.67	0.55	0.45	0.47	
23	0.35	1.70	2.35	0.85	1.01	1.06	1.38	0.95	0.66	0.55	0.45	0.46	
24	0.35	1.29	1.90	0.75	0.98	1.38	1.43	0.93	0.66	0.54	0.47	0.45	
25	0.35	1.06	1.66	0.72	1.00	1.57	1.28	0.91	0.65	0.54	0.48	0.45	
26	0.35	0.90	1.46	0.70	1.01	1.45	1.59	0.88	0.65	0.54	0.48	0.45	
27	0.35	0.89	1.34	0.76	1.02	1.45	1.34	0.87	0.64	0.54	0.48	0.45	
28	0.35	0.78	1.24	1.42	0.94	1.63	1.34	0.85	0.64	0.53	0.48	0.45	
29	0.35	1.04	1.16	1.18	0.87	2.18	1.23	0.84	0.63	0.53		0.45	
30	0.35	0.86	1.11	1.03	0.83	3.69	1.17	0.83	0.62	0.52		0.44	
31		0.80		0.97	0.92		1.30		0.61	0.52		0.44	
MEAN	0.35	0.70	1.38	0.83	0.93	1.23	2.18	1.15	0.71	0.56	0.49	0.48	
MAX	0.35	3.07	3.03	1.42	1.51	3.69	4.04	2.26	0.83	0.61	0.53	0.54	4.04
MIN	0.35	0.35	0.69	0.65	0.68	0.79	1.17	0.83	0.61	0.52	0.45	0.44	0.35

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.17 M (A.D), AT 15.00 HOURS, ON OCT 1, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED * 0.16 M (A.D)

LEFT BANK ELEVATION — 4.20 M (A.D)

RIGHT BANK ELEVATION — 3.70 M (A.D), DRAINAGE AREA 387 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.07	1.79	3.90	3.18	10.54	120.96	10.38	2.21	0.85	0.52	0.48	
2	0.07	0.07	1.44	3.58	4.06	6.38	120.32	7.50	2.07	0.85	0.52	0.48	
3	0.07	0.07	1.25	3.18	3.82	4.46	90.64	6.06	2.00	0.80	0.52	0.45	
4	0.07	0.07	1.25	2.86	3.18	3.90	70.78	5.10	2.00	0.76	0.48	0.42	
5	0.07	0.07	1.51	2.56	2.70	3.58	62.79	4.78	1.86	0.76	0.48	0.39	
6	0.07	0.07	2.21	2.63	2.42	3.58	49.30	4.30	1.79	0.76	0.48	0.39	
7	0.07	0.07	1.93	2.28	2.07	3.34	110.08	3.90	1.72	0.76	0.55	0.39	
8	0.07	0.07	2.94	2.14	1.72	3.26	69.84	5.58	1.65	0.73	0.52	0.45	
9	0.07	0.07	1.72	1.86	1.51	5.10	62.79	30.20	1.65	0.73	0.52	0.42	
10	0.07	0.07	1.37	1.65	1.30	4.22	42.50	14.88	1.58	0.69	0.48	0.42	
11	0.07	0.07	1.58	1.51	1.20	4.14	27.83	10.22	1.51	0.69	0.48	0.42	
12	0.07	0.07	2.14	1.51	1.37	3.90	21.08	8.46	1.44	0.69	0.45	0.48	
13	0.07	0.07	3.34	1.30	1.30	3.42	21.89	7.02	1.44	0.69	0.45	0.52	
14	0.07	0.07	5.58	1.30	1.37	3.02	23.24	6.06	1.44	0.66	0.42	0.59	
15	0.07	0.07	9.74	1.25	2.21	2.63	17.84	5.26	1.37	0.66	0.42	0.55	
16	0.07	0.07	9.90	1.20	3.34	2.35	30.20	4.62	1.37	0.66	0.39	0.52	
17	0.07	0.07	22.97	1.51	2.70	2.14	20.00	4.22	1.30	0.66	0.36	0.48	
18	0.07	0.07	29.50	1.25	3.10	2.00	15.54	4.06	1.25	0.62	0.36	0.45	
19	0.07	0.07	24.32	1.15	5.10	1.93	15.98	3.82	1.15	0.62	0.33	0.42	
20	0.07	0.09	52.92	1.05	10.92	4.22	13.34	3.58	1.15	0.62	0.33	0.39	
21	0.07	27.56	52.45	1.37	5.70	4.94	13.34	3.42	1.15	0.62	0.33	0.36	
22	0.07	62.79	60.91	2.00	4.22	4.46	10.38	3.26	1.15	0.62	0.30	0.36	
23	0.07	15.10	33.35	2.35	3.58	3.98	8.78	3.10	1.10	0.62	0.30	0.33	
24	0.07	7.34	20.00	1.65	3.34	8.78	9.58	2.94	1.10	0.59	0.36	0.30	
25	0.07	3.98	14.22	1.44	3.50	12.24	7.18	2.78	1.05	0.59	0.39	0.30	
26	0.07	2.70	10.06	1.30	3.58	9.90	12.68	2.56	1.05	0.59	0.39	0.30	
27	0.07	2.63	8.14	1.72	3.66	9.90	8.14	2.49	1.00	0.59	0.39	0.30	
28	0.07	1.86	6.54	9.42	3.02	13.56	8.14	2.35	1.00	0.55	0.39	0.30	
29	0.07	3.82	5.26	5.58	2.49	27.56	6.38	2.28	0.95	0.55		0.30	
30	0.07	2.42	4.46	3.74	2.21	98.56	5.42	2.21	0.90	0.52		0.27	
31		2.00		3.26	2.86		7.50		0.85	0.52		0.27	
TOTAL	2.10	133.62	394.79	73.50	97.73	271.99	1094.46	177.39	43.25	20.62	11.91	12.50	2333.86 CMSDAY
MEAN	0.07	4.31	13.16	2.37	3.15	9.07	35.31	5.91	1.40	0.67	0.43	0.40	6.39 CMS
MAX	0.07	62.79	60.91	9.42	10.92	98.56	120.96	30.20	2.21	0.85	0.55	0.59	120.96 CMS
MIN	0.07	0.07	1.25	1.05	1.20	1.93	5.42	2.21	0.85	0.52	0.30	0.27	0.07 CMS
RUNOFF	0.181	11.545	34.110	6.350	8.444	23.500	94.561	15.326	3.737	1.782	1.029	1.080	201.645 MCM

MOMENTARY PEAK 129.84 CMS, AT 4.17 M (A.D), AT 15.00 HOURS, ON OCT 1, 1980

RUNOFF YIELD 16.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 335.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

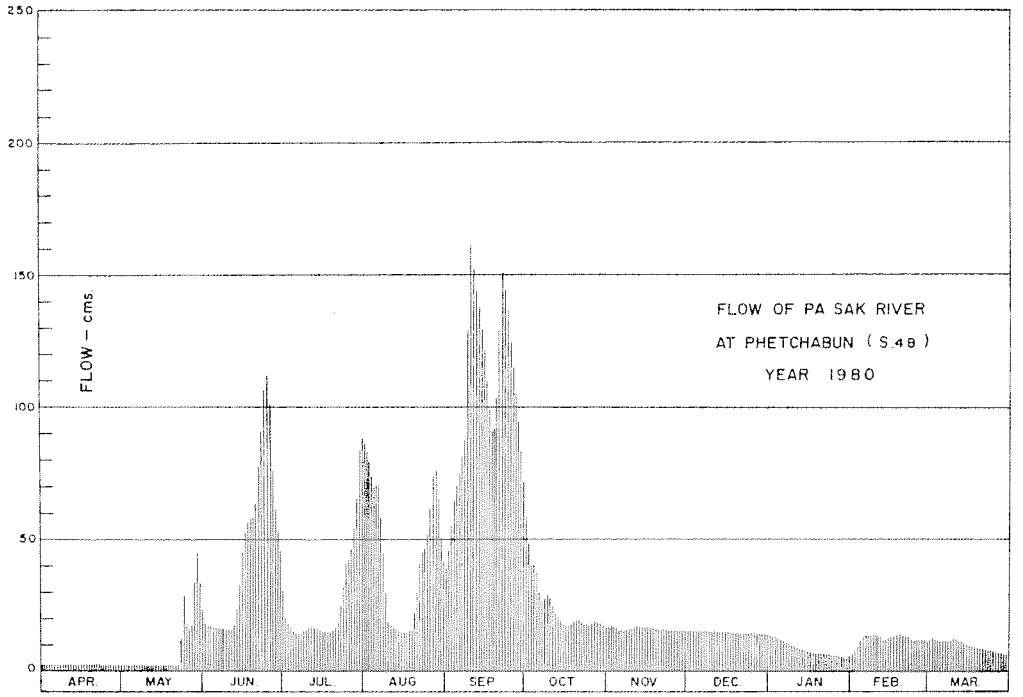
PA SAK RIVER AT PHETCHABUN, PHETCHABUN (S.4B)

LOCATION	LAT. 16°-25'-12" N., LONG. 101°-10'-13" E., ON LEFT BANK UPSTREAM SIDE OF WAT PRATU DAO, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	3,566 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+106.50 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE PROVINCE OFFICE.
ELEVATION	+114.20 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966
RATED BY FLOAT	-
RATED BY CURRENT METER	1966
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 183 DISCHARGE MEASUREMENTS MADE IN 1966.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	107.94	107.91	110.19	111.06	113.43	111.61	112.61	109.94	109.77	109.48	108.65	109.34	
2	107.92	107.90	109.97	110.30	113.31	112.12	112.03	110.00	109.77	109.48	108.85	109.39	
3	107.92	107.93	109.97	110.06	113.08	112.55	111.68	109.95	109.76	109.47	109.02	109.35	
4	107.92	107.93	109.93	109.91	112.91	112.78	111.70	109.90	109.75	109.44	109.39	109.32	
5	107.92	107.93	109.91	109.80	112.93	113.00	111.50	109.82	109.75	109.37	109.52	109.32	
6	107.92	107.93	109.91	109.70	112.95	113.13	111.01	109.82	109.74	109.28	109.50	109.31	
7	107.92	107.94	109.92	109.69	112.65	113.30	110.77	109.83	109.73	109.21	109.50	109.31	
8	107.93	107.94	109.92	109.72	111.79	113.51	110.89	109.84	109.73	109.15	109.51	109.31	
9	107.93	107.94	109.91	109.74	110.62	114.26	111.00	109.86	109.73	109.12	109.53	109.30	
10	107.93	107.98	109.87	109.80	110.13	115.21	110.88	109.90	109.72	109.06	109.52	109.30	
11	107.93	107.95	109.78	109.89	110.03	115.09	110.66	109.95	109.70	108.97	109.51	109.29	
12	107.93	107.94	109.80	109.93	109.94	114.95	110.46	109.98	109.70	108.90	109.48	109.26	
13	107.92	107.94	110.12	109.89	109.85	114.81	110.26	109.96	109.70	108.84	109.37	109.24	
14	107.92	107.94	110.75	109.83	109.79	114.64	110.18	109.91	109.70	108.78	109.35	109.20	
15	107.92	107.94	111.61	109.81	109.73	114.46	110.10	109.89	109.69	108.73	109.47	109.11	
16	107.92	107.93	112.05	109.80	109.71	114.26	110.01	109.88	109.69	108.70	109.53	109.03	
17	107.92	107.93	112.39	109.75	109.72	113.90	110.00	109.86	109.69	108.68	109.53	109.00	
18	107.92	107.93	112.47	109.72	109.75	113.56	110.03	109.84	109.68	108.67	109.53	108.97	
19	107.92	107.93	112.50	109.73	109.86	113.58	110.12	109.84	109.68	108.66	109.54	108.92	
20	107.92	107.93	112.53	109.83	110.51	114.06	110.22	109.83	109.67	108.65	109.54	108.87	
21	107.92	107.95	112.88	109.93	111.35	114.85	110.19	109.83	109.67	108.64	109.54	108.83	
22	107.92	107.96	113.39	110.10	111.87	114.98	110.10	109.82	109.64	108.63	109.52	108.80	
23	107.92	107.98	113.81	110.68	111.95	114.88	110.02	109.81	109.66	108.61	109.45	108.77	
24	107.92	109.54	114.14	111.45	112.03	114.74	109.96	109.80	109.67	108.56	109.33	108.73	
25	107.92	110.91	114.13	111.74	112.40	114.56	110.03	109.78	109.65	108.52	109.34	108.69	
26	107.92	109.96	113.87	111.75	112.80	114.36	110.10	109.79	109.63	108.47	109.29	108.66	
27	107.92	109.80	113.36	112.07	113.09	114.10	110.12	109.80	109.62	108.43	109.34	108.64	
28	107.92	110.03	112.64	112.37	113.14	113.78	110.06	109.80	109.61	108.40	109.35	108.62	
29	107.92	111.68	112.43	112.87	112.88	113.49	110.04	109.79	109.60	108.36		108.59	
30	107.92	111.94	112.00	113.36	112.30	113.11	109.98	109.78	109.54	108.32		108.56	
31		111.06		113.49	111.79		109.94		109.50	108.39		108.53	
MEAN	107.92	108.63	111.54	110.57	111.56	113.92	110.54	109.86	109.68	108.84	109.39	109.02	
MAX	107.94	111.94	114.14	113.49	113.43	115.21	112.61	110.00	109.77	109.48	109.54	109.39	115.21
MIN	107.92	107.90	109.78	109.69	109.71	111.61	109.94	109.78	109.50	108.32	108.65	108.53	107.90

ANNUAL MAX MOMENTARY GAGE HEIGHT 115.25 M (MSL), AT 6.00 HOURS, ON SEP 10, 1980
ZERO GAGE AT BOTTOM ELEVATION 106.50 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 115.67 M (MSL)
RIGHT BANK ELEVATION 115.43 M (MSL), DRAINAGE AREA 3566 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.58	2.43	19.60	30.18	86.22	38.69	60.98	17.10	15.40	13.04	6.96	11.92	
2	2.48	2.38	17.40	20.80	82.14	48.86	46.86	17.70	15.40	13.04	8.33	12.32	
3	2.48	2.53	17.40	18.30	74.60	59.35	40.02	17.20	15.30	12.96	9.52	12.00	
4	2.48	2.53	17.00	16.80	69.50	65.74	40.40	16.70	15.20	12.72	12.32	11.76	
5	2.48	2.53	16.80	15.70	70.10	72.20	36.80	15.90	15.20	12.16	13.36	11.76	
6	2.48	2.53	16.80	14.75	70.70	76.16	29.53	15.90	15.10	11.44	13.20	11.68	
7	2.48	2.58	16.90	14.68	62.10	81.80	26.41	16.00	15.00	10.90	13.20	11.68	
8	2.53	2.56	16.90	14.90	42.11	88.94	27.97	16.10	15.00	10.46	13.28	11.68	
9	2.53	2.58	16.80	15.10	24.54	117.16	29.40	16.30	15.00	10.24	13.45	11.60	
10	2.53	2.78	16.40	15.70	19.00	161.39	27.84	16.70	14.90	9.81	13.36	11.60	
11	2.53	2.63	15.50	16.60	18.00	155.51	25.02	17.20	14.75	9.17	13.28	11.52	
12	2.53	2.58	15.70	17.00	17.10	148.70	22.62	17.90	14.75	8.68	13.04	11.29	
13	2.48	2.58	18.90	16.60	16.20	141.98	20.36	17.30	14.75	8.27	12.16	11.13	
14	2.48	2.58	26.15	16.00	15.60	133.94	19.50	16.80	14.75	7.85	12.00	10.82	
15	2.48	2.58	38.69	15.80	15.00	125.84	18.70	16.60	14.68	7.51	12.96	10.17	
16	2.48	2.53	47.30	15.70	14.83	117.16	17.80	16.50	14.68	7.30	13.45	9.60	
17	2.48	2.53	55.25	15.20	14.90	102.60	17.70	16.30	14.68	7.16	13.45	9.38	
18	2.48	2.53	57.25	14.90	15.20	90.64	18.00	16.10	14.61	7.10	13.45	9.17	
19	2.48	2.53	58.00	15.00	16.30	91.32	18.90	16.10	14.61	7.03	13.53	8.82	
20	2.48	2.53	58.81	16.00	23.22	109.00	19.92	16.00	14.53	6.96	13.53	8.47	
21	2.48	2.63	68.62	17.00	34.40	143.90	19.60	16.00	14.53	6.89	13.53	8.20	
22	2.48	2.68	84.86	18.70	43.63	150.14	18.70	15.90	14.31	6.82	13.36	7.99	
23	2.48	2.78	99.27	25.26	45.20	145.34	17.90	15.80	14.46	6.69	12.80	7.78	
24	2.48	13.53	112.24	36.00	46.86	138.62	17.30	15.70	14.53	6.35	11.84	7.51	
25	2.48	28.23	111.83	41.16	55.50	130.30	18.00	15.50	14.39	6.08	11.92	7.23	
26	2.48	17.30	101.49	41.35	66.30	121.44	18.70	15.60	14.24	5.75	11.52	7.03	
27	2.48	15.70	83.84	47.74	74.90	110.60	18.90	15.70	14.17	5.49	11.92	6.89	
28	2.48	18.00	61.82	54.75	76.48	98.20	18.30	15.70	14.09	5.30	12.00	6.76	
29	2.48	40.02	56.25	68.33	68.62	88.26	18.10	15.60	14.02	5.05		6.55	
30	2.48	45.00	46.20	83.84	53.00	75.52	17.50	15.50	13.53	4.80		6.35	
31		30.18		88.26	42.11		17.10		13.20	5.24		6.14	
TOTAL	74.75	267.10	1389.97	858.10	1374.36	3229.30	764.83	489.00	453.76	258.26	346.72	296.80	9802.93 CMSDAY
MEAN	2.49	8.62	46.33	27.68	44.33	107.64	24.67	16.30	14.64	8.33	12.38	9.57	26.86 CMS
MAX	2.58	45.00	112.24	88.26	86.22	161.39	60.98	17.70	15.40	13.04	13.53	12.32	161.39 CMS
MIN	2.48	2.38	15.50	14.68	14.83	38.69	17.10	15.50	13.20	4.80	6.96	6.14	2.38 CMS
RUNOFF	6.458	23.077	120.093	74.140	118.745	279.011	66.081	42.250	39.205	22.314	29.957	25.643	846.973 MCM

MOMENTARY PEAK 163.35 CMS, AT 115.25 M (MSL), AT 6.00 HOURS, ON SEP 10, 1980

RUNOFF YIELD 7.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 45.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

LAM MUAK LEK AT MUAK LEK, SARABURI (S.7)

LOCATION — LAT. 14°-38'-04" N., LONG. 101°-12'-37" E., ON LEFT BANK ABOUT 50 METERS UPSTREAM FROM THE BRIDGE OF BANKOK-NAKHON RATCHASIMA HIGHWAY, TAMBON MUAK LEK, AMPHOE MUAK LEK, SARABURI.

DRAINAGE AREA — 177 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +6.919 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

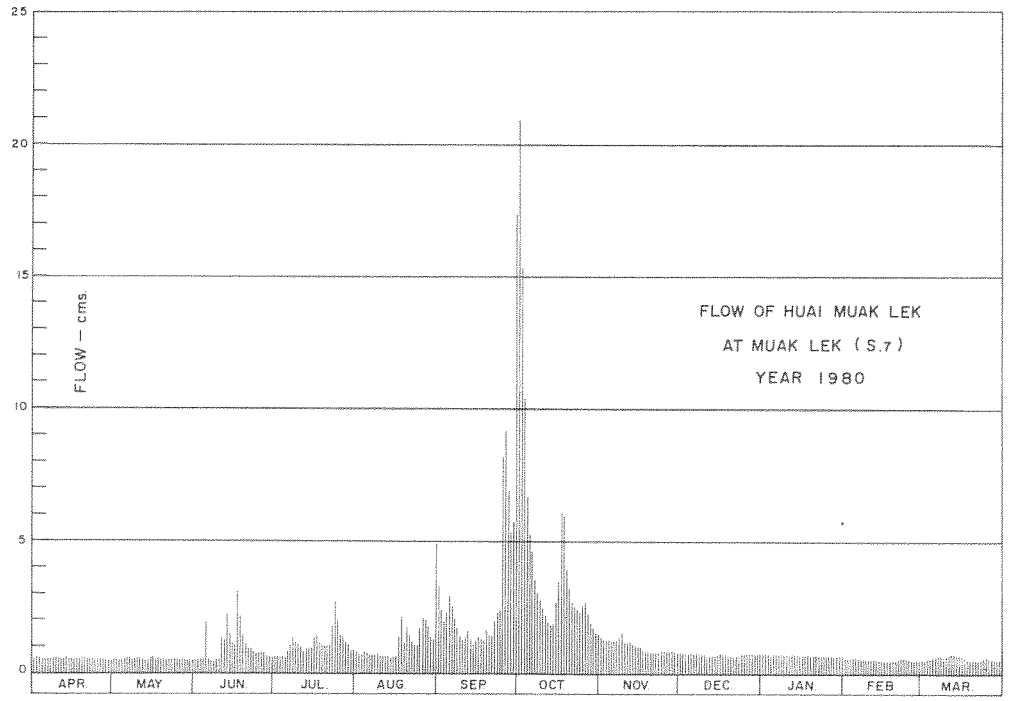
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	'AY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.45	0.45	0.48	0.51	0.73	1.58	0.56	0.50	0.49	0.47	0.45	
2	0.46	0.45	0.45	0.48	0.49	0.65	1.48	0.55	0.50	0.49	0.47	0.45	
3	0.45	0.45	0.45	0.48	0.48	0.62	1.19	0.55	0.50	0.49	0.47	0.46	
4	0.45	0.45	0.45	0.48	0.50	0.65	1.02	0.55	0.49	0.49	0.47	0.46	
5	0.45	0.46	0.62	0.47	0.50	0.70	0.89	0.55	0.49	0.49	0.47	0.47	
6	0.45	0.46	0.46	0.51	0.49	0.67	0.80	0.55	0.49	0.49	0.47	0.48	
7	0.46	0.47	0.45	0.55	0.49	0.63	0.75	0.55	0.49	0.49	0.46	0.48	
8	0.46	0.45	0.44	0.56	0.49	0.59	0.71	0.56	0.49	0.49	0.46	0.48	
9	0.46	0.45	0.45	0.54	0.49	0.57	0.69	0.58	0.49	0.49	0.46	0.47	
10	0.46	0.45	0.45	0.54	0.48	0.55	0.67	0.55	0.49	0.49	0.46	0.49	
11	0.45	0.46	0.56	0.53	0.48	0.56	0.64	0.55	0.48	0.49	0.46	0.49	
12	0.45	0.45	0.55	0.51	0.48	0.59	0.62	0.55	0.48	0.49	0.46	0.49	
13	0.46	0.45	0.64	0.52	0.48	0.56	0.61	0.54	0.48	0.49	0.45	0.49	
14	0.45	0.45	0.58	0.52	0.47	0.53	0.62	0.53	0.48	0.49	0.45	0.49	
15	0.45	0.46	0.54	0.52	0.47	0.55	0.67	0.53	0.49	0.49	0.45	0.49	
16	0.45	0.47	0.53	0.57	0.47	0.56	0.74	0.53	0.49	0.49	0.45	0.48	
17	0.46	0.46	0.71	0.57	0.59	0.55	0.92	0.51	0.49	0.49	0.45	0.46	
18	0.46	0.46	0.63	0.54	0.63	0.55	0.91	0.51	0.49	0.49	0.45	0.45	
19	0.46	0.45	0.57	0.53	0.52	0.59	0.79	0.51	0.48	0.49	0.45	0.45	
20	0.45	0.45	0.54	0.53	0.60	0.57	0.72	0.50	0.48	0.49	0.45	0.45	
21	0.45	0.45	0.52	0.53	0.58	0.57	0.68	0.50	0.48	0.49	0.45	0.45	
22	0.45	0.45	0.52	0.53	0.54	0.63	0.67	0.50	0.48	0.49	0.46	0.45	
23	0.45	0.45	0.51	0.63	0.53	0.65	0.66	0.50	0.49	0.49	0.46	0.45	
24	0.45	0.45	0.49	0.68	0.53	0.65	0.65	0.51	0.49	0.49	0.46	0.47	
25	0.45	0.46	0.50	0.61	0.61	1.05	0.67	0.51	0.49	0.49	0.46	0.47	
26	0.45	0.45	0.50	0.57	0.63	1.09	0.68	0.51	0.49	0.49	0.45	0.46	
27	0.45	0.45	0.50	0.57	0.63	0.97	0.64	0.51	0.49	0.49	0.45	0.46	
28	0.45	0.45	0.48	0.54	0.60	0.87	0.61	0.51	0.49	0.49	0.45	0.45	
29	0.45	0.45	0.48	0.53	0.56	0.90	0.60	0.51	0.49	0.49		0.45	
30	0.45	0.45	0.48	0.51	0.55	1.46	0.58	0.51	0.49	0.49		0.45	
31		0.45		0.51	0.84		0.58		0.49	0.49		0.46	
MEAN	0.45	0.45	0.52	0.54	0.54	0.69	0.78	0.53	0.49	0.49	0.46	0.47	
MAX	0.46	0.47	0.71	0.68	0.84	1.46	1.58	0.58	0.50	0.49	0.47	0.49	1.58
MIN	0.45	0.45	0.44	0.47	0.47	0.53	0.58	0.50	0.48	0.49	0.45	0.45	0.44

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.10 M (A.D.), AT 19.00 HOURS, ON SEP 30, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.75 M (A.D.)
LEFT BANK ELEVATION 7.50 M (A.D.)
RIGHT BANK ELEVATION 7.48 M (A.D.), DRAINAGE AREA 177 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.52	0.52	0.69	0.89	3.35	20.96	1.37	0.80	0.74	0.63	0.52	
2	0.58	0.52	0.52	0.69	0.74	2.35	18.30	1.27	0.80	0.74	0.63	0.52	
3	0.52	0.52	0.52	0.69	0.69	1.99	11.38	1.27	0.80	0.74	0.63	0.58	
4	0.52	0.52	0.52	0.69	0.80	2.35	7.88	1.27	0.74	0.74	0.63	0.58	
5	0.52	0.58	1.99	0.63	0.80	2.95	5.65	1.27	0.74	0.74	0.63	0.63	
6	0.52	0.58	0.58	0.89	0.74	2.59	4.30	1.27	0.74	0.74	0.63	0.69	
7	0.58	0.63	0.52	1.27	0.74	2.11	3.62	1.27	0.74	0.74	0.58	0.69	
8	0.58	0.52	0.47	1.37	0.74	1.65	3.08	1.37	0.74	0.74	0.58	0.69	
9	0.58	0.52	0.52	1.18	0.74	1.46	2.83	1.56	0.74	0.74	0.58	0.63	
10	0.58	0.52	0.52	1.18	0.69	1.27	2.59	1.27	0.74	0.74	0.58	0.74	
11	0.52	0.58	1.37	1.08	0.69	1.37	2.23	1.27	0.69	0.74	0.58	0.74	
12	0.52	0.52	1.27	0.89	0.69	1.65	1.99	1.27	0.69	0.74	0.58	0.74	
13	0.58	0.52	2.23	0.99	0.69	1.37	1.87	1.18	0.69	0.74	0.52	0.74	
14	0.52	0.52	1.56	0.99	0.63	1.08	1.99	1.08	0.69	0.74	0.52	0.74	
15	0.52	0.58	1.18	0.99	0.63	1.27	2.59	1.08	0.74	0.74	0.52	0.74	
16	0.52	0.63	1.08	1.46	0.63	1.37	3.49	1.08	0.74	0.74	0.52	0.69	
17	0.58	0.58	3.08	1.46	1.65	1.27	6.14	0.89	0.74	0.74	0.52	0.58	
18	0.58	0.58	2.11	1.18	2.11	1.27	5.97	0.89	0.74	0.74	0.52	0.52	
19	0.58	0.52	1.46	1.08	0.99	1.65	4.16	0.89	0.69	0.74	0.52	0.52	
20	0.52	0.52	1.18	1.08	1.75	1.46	3.22	0.80	0.69	0.74	0.52	0.52	
21	0.52	0.52	0.99	1.08	1.56	1.46	2.71	0.80	0.69	0.74	0.52	0.52	
22	0.52	0.52	0.99	1.08	1.18	2.11	2.59	0.80	0.69	0.74	0.58	0.52	
23	0.52	0.52	0.89	2.11	1.08	2.35	2.47	0.80	0.74	0.74	0.58	0.52	
24	0.52	0.52	0.74	2.71	1.08	2.35	2.35	0.89	0.74	0.74	0.58	0.63	
25	0.52	0.58	0.80	1.87	1.87	8.45	2.59	0.89	0.74	0.74	0.58	0.63	
26	0.52	0.52	0.80	1.46	2.11	9.21	2.71	0.89	0.74	0.74	0.52	0.58	
27	0.52	0.52	0.80	1.46	2.11	6.99	2.23	0.89	0.74	0.74	0.52	0.58	
28	0.52	0.52	0.69	1.18	1.75	5.35	1.87	0.89	0.74	0.74	0.52	0.52	
29	0.52	0.52	0.69	1.08	1.37	5.80	1.75	0.89	0.74	0.74		0.52	
30	0.52	0.52	0.69	0.89	1.27	17.80	1.56	0.89	0.74	0.74		0.52	
31		0.52		0.89	4.90		1.56		0.74	0.74		0.58	
TOTAL	16.14	16.76	31.28	36.29	38.31	97.70	138.63	32.25	22.72	22.94	15.82	18.92	487.76 CMSDAY
MEAN	0.54	0.54	1.04	1.17	1.24	3.26	4.47	1.07	0.73	0.74	0.56	0.61	1.34 CMS
MAX	0.58	0.63	3.08	2.71	4.90	17.80	20.96	1.56	0.80	0.74	0.63	0.74	20.96 CMS
MIN	0.52	0.52	0.47	0.63	0.63	1.08	1.56	0.80	0.69	0.74	0.52	0.52	0.47 CMS
RUNOFF	1.394	1.448	2.703	3.135	3.310	8.441	11.978	2.786	1.963	1.982	1.367	1.635	42.142 MCM

MOMENTARY PEAK 80.00 CMS, AT 3.10 M (A.D), AT 19.00 HOURS, ON SEP 30, 1980

RUNOFF YIELD 7.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 451.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

PA SAK RIVER AT BAN MUANG NUA, SARABURI (S.9)

LOCATION — LAT. 14°-37'-33" N., LONG. 101°-01'-00" E., ON LEFT BANK ABOUT 5 KILOMETERS UPSTREAM FROM S.2, BAN MUANG NUA, AMPHOE KAENG KHOI, SARABURI.

DRAINAGE AREA — 14,374 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +7.492 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK UNDER TAMARIND TREE ALONG THE MEASURING LINE.

ELEVATION — +23.099 M.(M.S.L.)

GAGE READING FREQUENCY — 3-5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3-5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 41 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

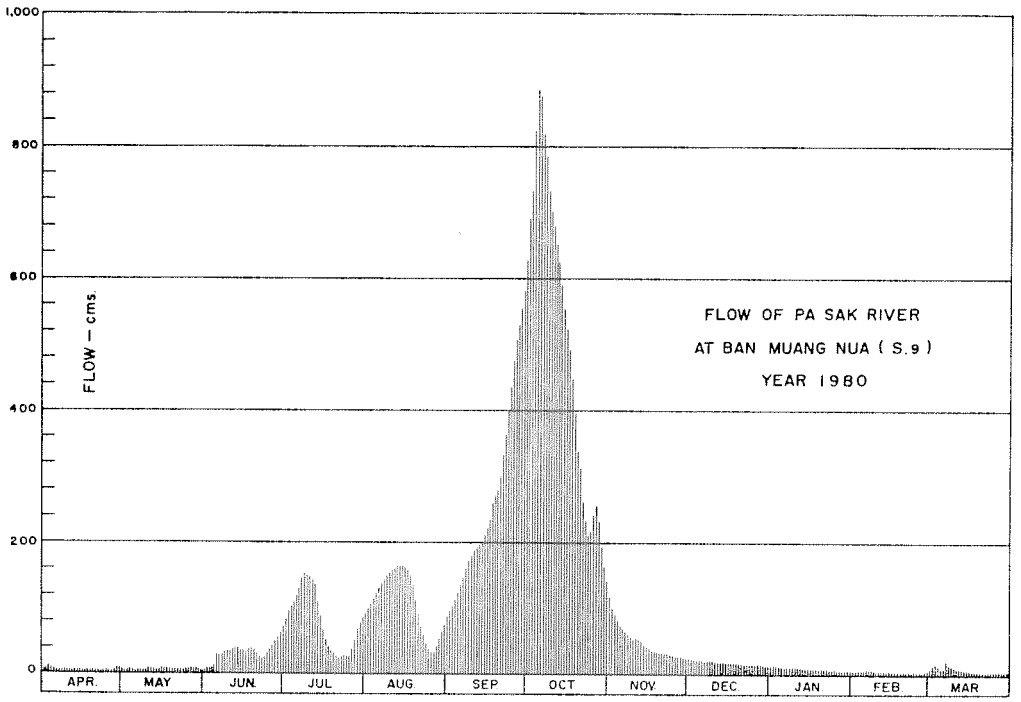
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.41	8.42	8.34	9.73	9.97	9.93	14.89	10.31	8.91	8.61	8.40	8.46	
2	8.39	8.34	8.44	9.87	10.07	10.04	15.28	10.13	8.89	8.60	8.40	8.74	
3	8.55	8.36	8.45	10.02	10.16	10.16	15.75	10.00	8.87	8.59	8.40	8.65	
4	8.45	8.44	8.50	10.12	10.26	10.27	16.37	9.88	8.86	8.58	8.39	8.50	
5	8.37	8.35	8.68	10.22	10.35	10.37	16.71	9.77	8.85	8.57	8.38	8.45	
6	8.34	8.30	9.03	10.33	10.42	10.50	16.61	9.68	8.84	8.57	8.37	8.44	
7	8.32	8.34	8.93	10.43	10.53	10.68	16.36	9.61	8.83	8.57	8.38	8.79	
8	8.31	8.34	9.03	10.63	10.59	10.80	16.02	9.56	8.82	8.57	8.36	8.55	
9	8.31	8.31	9.07	10.69	10.65	10.91	15.67	9.49	8.81	8.56	8.36	8.58	
10	8.31	8.29	9.11	10.66	10.70	10.97	15.35	9.45	8.80	8.55	8.35	8.52	
11	8.31	8.44	9.11	10.64	10.75	11.04	15.18	9.47	8.79	8.54	8.34	8.45	
12	8.30	8.48	9.16	10.59	10.77	11.10	15.05	9.45	8.77	8.53	8.33	8.41	
13	8.29	8.43	9.19	10.47	10.80	11.11	14.82	9.38	8.76	8.51	8.32	8.42	
14	8.30	8.37	9.19	10.25	10.81	11.19	14.52	9.32	8.75	8.50	8.32	8.39	
15	8.29	8.37	9.11	9.98	10.80	11.29	14.17	9.26	8.75	8.49	8.32	8.39	
16	8.29	8.47	9.13	9.68	10.81	11.37	13.84	9.20	8.74	8.49	8.32	8.37	
17	8.29	8.39	9.07	9.43	10.76	11.51	13.62	9.16	8.74	8.48	8.31	8.35	
18	8.29	8.43	9.18	9.24	10.67	11.73	13.36	9.12	8.73	8.48	8.31	8.33	
19	8.29	8.41	9.17	9.10	10.52	11.82	12.95	9.10	8.73	8.47	8.31	8.32	
20	8.28	8.39	9.14	9.01	10.29	11.92	12.49	9.09	8.72	8.47	8.31	8.30	
21	8.29	8.39	9.07	8.95	10.03	12.13	12.12	9.09	8.72	8.46	8.31	8.30	
22	8.28	8.38	8.95	8.91	9.76	12.40	11.78	9.07	8.70	8.46	8.31	8.29	
23	8.28	8.35	8.87	8.90	9.54	12.63	11.45	9.07	8.68	8.46	8.30	8.29	
24	8.27	8.31	8.92	8.95	9.34	12.91	11.24	9.04	8.67	8.46	8.29	8.29	
25	8.27	8.37	9.09	8.91	9.19	13.28	11.34	9.01	8.67	8.45	8.29	8.28	
26	8.26	8.43	9.17	8.94	9.09	13.63	11.57	8.99	8.66	8.44	8.30	8.27	
27	8.25	8.42	9.24	9.12	9.09	13.90	11.64	8.97	8.65	8.43	8.34	8.27	
28	8.27	8.44	9.38	9.41	9.21	14.04	11.48	8.94	8.64	8.43	8.34	8.27	
29	8.59	8.45	9.47	9.66	9.37	14.22	11.18	8.93	8.63	8.42		8.27	
30	8.59	8.38	9.57	9.81	9.57	14.50	10.84	8.91	8.63	8.41		8.27	
31		8.36		9.90	9.77		10.56		8.62	8.40		8.27	
MEAN	8.33	8.39	9.03	9.76	10.15	11.74	13.68	9.35	8.75	8.50	8.34	8.40	
MAX	8.59	8.48	9.57	10.69	10.81	14.50	16.71	10.31	8.91	8.61	8.40	8.79	16.71
MIN	8.25	8.29	8.34	8.90	9.09	9.93	10.56	8.91	8.62	8.40	8.29	8.27	8.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 16.74 M (MSL), AT 15.00 HOURS, ON OCT 5, 1980

ZERO GAGE AT BOTTOM ELEVATION 7.49 M (MSL), RIVER BED 6.23 M (MSL)

LEFT BANK ELEVATION 22.86 M (MSL)

RIGHT BANK ELEVATION 23.16 M (MSL), DRAINAGE AREA 14374 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.5	7.8	5.4	74.9	91.8	88.9	636.9	119.5	26.0	14.0	7.2	9.0	
2	6.9	5.4	8.4	84.7	99.8	97.4	687.6	104.6	25.2	13.6	7.2	19.2	
3	11.7	6.0	8.7	95.8	107.0	107.0	748.7	94.2	24.4	13.2	7.2	15.6	
4	8.7	8.4	10.2	103.8	115.0	115.9	834.5	85.4	24.0	12.8	6.9	10.2	
5	6.3	5.7	16.8	111.8	123.1	124.9	885.5	77.7	23.6	12.4	6.6	8.7	
6	5.4	4.2	31.5	121.3	129.4	136.6	870.5	71.4	23.2	12.4	6.3	8.4	
7	4.8	5.4	26.8	130.3	139.3	152.8	833.0	66.5	22.8	12.4	6.6	21.2	
8	4.5	5.4	31.5	148.3	144.7	164.0	784.4	63.0	22.4	12.4	6.0	11.7	
9	4.5	4.5	33.5	153.7	150.1	175.0	738.3	58.1	22.0	12.0	6.0	12.8	
10	4.5	3.9	35.5	151.0	154.6	181.0	696.7	55.4	21.6	11.7	5.7	10.8	
11	4.5	8.4	35.5	149.2	159.1	188.0	674.6	56.7	21.2	11.4	5.4	8.7	
12	4.2	9.6	38.0	144.7	161.0	194.0	657.7	55.4	20.4	11.1	5.1	7.5	
13	3.9	8.1	39.8	133.9	164.0	195.0	627.8	51.2	20.0	10.5	4.8	7.8	
14	4.2	6.3	39.8	114.2	165.0	203.0	588.8	47.6	19.6	10.2	4.8	6.9	
15	3.9	6.3	35.5	92.6	164.0	213.3	545.2	44.0	19.6	9.9	4.8	6.9	
16	3.9	9.3	36.5	71.4	165.0	222.1	505.6	40.4	19.2	9.9	4.8	6.3	
17	3.9	6.9	33.5	54.2	160.0	237.5	479.2	38.0	19.2	9.6	4.5	5.7	
18	3.9	8.1	39.2	42.8	151.9	261.7	448.0	36.0	18.8	9.6	4.5	5.1	
19	3.9	7.5	38.6	35.0	138.4	271.6	398.8	35.0	18.8	9.3	4.5	4.8	
20	3.6	6.9	37.0	30.5	117.7	282.6	345.3	34.5	18.4	9.3	4.5	4.2	
21	3.9	6.9	33.5	27.6	96.6	305.7	304.6	34.5	18.4	9.0	4.5	4.2	
22	3.6	6.6	27.6	26.0	77.0	335.4	267.2	33.5	17.6	9.0	4.5	3.9	
23	3.6	5.7	24.4	25.6	61.6	360.7	230.9	33.5	16.8	9.0	4.2	3.9	
24	3.3	4.5	26.4	27.6	48.8	394.0	208.0	32.0	16.4	9.0	3.9	3.9	
25	3.3	6.3	34.5	26.0	39.8	438.4	218.8	30.5	16.4	8.7	3.9	3.6	
26	3.0	8.1	38.6	27.2	34.5	480.4	244.1	29.5	16.0	8.4	4.2	3.3	
27	2.7	7.8	42.8	36.0	34.5	512.8	251.8	28.5	15.6	8.1	5.4	3.3	
28	3.3	8.4	51.2	53.0	41.0	529.6	234.2	27.2	15.2	8.1	5.4	3.3	
29	13.2	8.7	56.7	70.0	50.6	551.2	202.0	26.8	14.8	7.8		3.3	
30	13.2	6.6	63.7	80.5	63.7	586.2	168.0	26.0	14.8	7.5		3.3	
31		6.0		86.8	77.7		142.0		14.4	7.2		3.3	
TOTAL	157.8	209.7	981.1	2530.4	3426.7	8106.7	15458.7	1536.6	606.8	319.5	149.4	230.8	33714.2 CMSDAY
MEAN	5.3	6.8	32.7	81.6	110.5	270.2	498.7	51.2	19.6	10.3	5.3	7.4	92.4 CMS
MAX	13.2	9.6	63.7	153.7	165.0	586.2	885.5	119.5	26.0	14.0	7.2	21.2	885.5 CMS
MIN	2.7	3.9	5.4	25.6	34.5	88.9	142.0	26.0	14.4	7.2	3.9	3.3	2.7 CMS
RUNOFF	13.63	18.12	84.77	218.63	296.07	700.42	1335.63	132.76	52.43	27.60	12.91	19.94	2912.90 MCM

MOMENTARY PEAK 890.00 CMS, AT 16.74 M (MSL), AT 15.00 HOURS, ON OCT 5, 1980

RUNOFF YIELD 6.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 61.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

NAM PHUNG AT BAN NAM KHOP, PHETCHABUN (S.10)

LOCATION — LAT. 16°-56'-50" N., LONG. 101°-13'-10" E., ON RIGHT BANK AT NAM PHUNG BRIDGE, TAMBON HIN HAO, AMPHOE LOM KAO, PHETCHABUN.

DRAINAGE AREA — 268 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +8.823 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967, 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967, 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

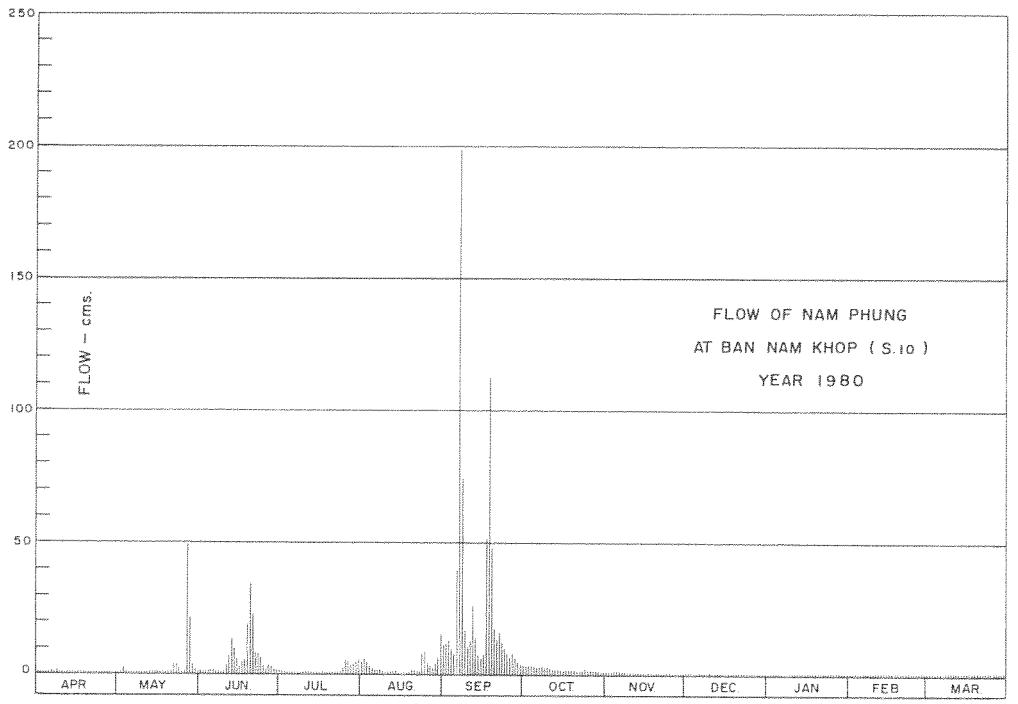
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.30	0.57	0.57	1.04	1.56	0.89	0.55	0.36	0.25	0.21	0.21	
2	0.26	0.29	0.56	0.52	1.18	1.62	0.85	0.53	0.36	0.21	0.23	0.21	
3	0.28	0.71	0.47	0.45	0.98	1.67	0.99	0.52	0.35	0.21	0.19	0.21	
4	0.25	0.48	0.52	0.40	0.85	1.33	0.98	0.51	0.34	0.25	0.23	0.20	
5	0.27	0.36	0.65	0.37	0.72	1.29	0.86	0.51	0.34	0.23	0.19	0.20	
6	0.48	0.34	0.60	0.35	0.64	1.31	0.81	0.50	0.33	0.23	0.22	0.20	
7	0.41	0.28	0.64	0.34	0.58	5.70	0.83	0.50	0.33	0.23	0.17	0.20	
8	0.57	0.34	0.52	0.35	0.62	2.37	0.82	0.53	0.32	0.23	0.20	0.20	
9	0.40	0.29	0.45	0.44	0.55	1.84	0.77	0.55	0.32	0.21	0.21	0.20	
10	0.38	0.40	0.45	0.43	0.51	1.51	0.81	0.50	0.31	0.25	0.21	0.21	
11	0.31	0.42	0.98	0.38	0.50	1.70	0.70	0.48	0.29	0.23	0.20	0.21	
12	0.30	0.39	1.24	0.36	0.48	2.27	0.68	0.46	0.29	0.22	0.22	0.21	
13	0.29	0.35	1.69	0.34	0.52	1.39	0.64	0.44	0.29	0.23	0.20	0.21	
14	0.29	0.28	1.48	0.32	0.53	1.22	0.62	0.44	0.28	0.23	0.21	0.20	
15	0.28	0.28	1.07	0.35	0.45	1.19	0.60	0.44	0.28	0.23	0.18	0.18	
16	0.28	0.26	0.84	0.41	0.44	1.24	0.58	0.43	0.28	0.21	0.20	0.21	
17	0.27	0.26	1.05	0.45	0.44	2.88	0.62	0.43	0.27	0.22	0.19	0.19	
18	0.27	0.26	1.09	0.39	0.44	4.41	0.62	0.42	0.28	0.22	0.22	0.18	
19	0.27	0.26	2.16	0.36	0.51	2.58	0.68	0.41	0.26	0.22	0.21	0.18	
20	0.27	0.26	2.58	0.39	0.72	1.94	0.67	0.40	0.27	0.23	0.19	0.17	
21	0.27	0.39	1.89	0.45	0.62	1.66	0.59	0.40	0.27	0.22	0.16	0.17	
22	0.27	0.99	1.33	0.50	0.58	1.81	0.56	0.40	0.26	0.21	0.18	0.16	
23	0.25	1.00	1.34	0.52	0.55	1.63	0.57	0.39	0.26	0.24	0.18	0.15	
24	0.25	0.64	1.26	0.50	1.29	1.42	0.71	0.38	0.26	0.21	0.20	0.14	
25	0.25	0.50	0.80	0.81	1.37	1.22	0.63	0.38	0.26	0.21	0.19	0.15	
26	0.25	0.47	0.62	1.10	0.94	1.19	0.58	0.38	0.25	0.22	0.18	0.13	
27	0.25	3.02	0.98	1.08	0.87	1.29	0.56	0.38	0.25	0.23	0.22	0.13	
28	0.24	2.02	0.81	0.86	0.72	1.16	0.54	0.37	0.25	0.21	0.23	0.13	
29	0.25	0.89	0.68	0.98	1.01	0.99	0.52	0.36	0.24	0.21		0.13	
30	0.33	0.69	0.60	1.00	1.24	0.93	0.53	0.36	0.25	0.22		0.18	
31		0.59		1.14	1.80		0.55		0.25	0.21		0.17	
MEAN	0.30	0.58	1.00	0.55	0.76	1.81	0.69	0.44	0.29	0.22	0.20	0.18	
MAX	0.57	3.02	2.58	1.14	1.80	5.70	0.99	0.55	0.36	0.25	0.23	0.21	5.70
MIN	0.24	0.26	0.45	0.32	0.44	0.93	0.52	0.36	0.24	0.21	0.16	0.13	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.26 M (A.D.), AT 11.00 HOURS, ON SEP 7, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.70 M (A.D.)

LEFT BANK ELEVATION 8.66 M (A.D.)

RIGHT BANK ELEVATION 9.36 M (A.D.), DRAINAGE AREA 268 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.45	1.83	1.83	5.23	11.66	3.86	1.72	0.75	0.23	0.04	0.04	
2	0.27	0.40	1.78	1.56	6.76	12.66	3.52	1.61	0.75	0.04	0.14	0.04	
3	0.23	2.60	1.30	1.20	4.67	13.56	4.76	1.56	0.70	0.04	0.00	0.04	
4	0.23	1.35	1.56	0.95	3.52	8.56	4.67	1.50	0.65	0.23	0.14	0.00	
5	0.31	0.75	2.27	0.80	2.66	8.08	3.61	1.50	0.65	0.14	0.00	0.00	
6	1.35	0.65	2.00	0.70	2.22	8.32	3.18	1.45	0.60	0.14	0.09	0.00	
7	1.00	0.36	2.22	0.65	1.89	199.00	3.35	1.45	0.60	0.14	0.00	0.00	
8	1.83	0.65	1.56	0.70	2.11	28.85	3.27	1.61	0.55	0.14	0.00	0.00	
9	0.95	0.40	1.20	1.15	1.72	16.80	2.93	1.72	0.55	0.04	0.04	0.00	
10	0.85	0.95	1.20	1.10	1.50	10.86	3.18	1.45	0.50	0.23	0.04	0.04	
11	0.50	1.05	4.67	0.85	1.45	14.10	2.55	1.35	0.40	0.14	0.00	0.04	
12	0.45	0.90	7.48	0.75	1.35	26.38	2.44	1.25	0.40	0.09	0.09	0.04	
13	0.40	0.70	13.92	0.65	1.56	9.28	2.22	1.15	0.40	0.14	0.00	0.04	
14	0.40	0.36	10.44	0.55	1.61	7.24	2.11	1.15	0.36	0.14	0.04	0.00	
15	0.36	0.36	5.51	0.70	1.20	6.88	2.00	1.15	0.36	0.14	0.00	0.00	
16	0.36	0.27	3.44	1.00	1.15	7.48	1.89	1.10	0.36	0.04	0.00	0.04	
17	0.31	0.27	5.32	1.20	1.15	43.98	2.11	1.10	0.31	0.09	0.00	0.00	
18	0.31	0.27	5.70	0.90	1.15	112.17	2.11	1.05	0.36	0.09	0.09	0.00	
19	0.31	0.27	23.78	0.75	1.50	34.44	2.44	1.00	0.27	0.09	0.04	0.00	
20	0.31	0.27	34.44	0.90	2.66	18.84	2.38	0.95	0.31	0.14	0.00	0.00	
21	0.31	0.90	17.80	1.20	2.11	13.38	1.94	0.95	0.31	0.09	0.00	0.00	
22	0.31	4.76	8.56	1.45	1.89	16.20	1.78	0.95	0.27	0.04	0.00	0.00	
23	0.23	4.85	8.68	1.56	1.72	12.84	1.83	0.90	0.27	0.18	0.00	0.00	
24	0.23	2.22	7.72	1.45	8.08	9.66	2.60	0.85	0.27	0.04	0.00	0.00	
25	0.23	1.45	3.10	3.18	9.04	7.24	2.16	0.85	0.27	0.04	0.00	0.00	
26	0.23	1.30	2.11	5.80	4.31	6.88	1.89	0.85	0.23	0.09	0.00	0.00	
27	0.23	49.04	4.67	5.61	3.69	8.08	1.78	0.85	0.23	0.14	0.09	0.00	
28	0.18	20.56	3.18	3.61	2.66	6.52	1.67	0.80	0.23	0.04	0.14	0.00	
29	0.23	3.86	2.44	4.67	4.94	4.76	1.56	0.75	0.18	0.04		0.00	
30	0.60	2.49	2.00	4.85	7.48	4.22	1.61	0.75	0.23	0.09		0.00	
31		1.94		6.28	16.00		1.72		0.23	0.04		0.00	
TOTAL	13.87	106.65	191.88	58.55	108.98	688.92	79.12	35.32	12.55	3.30	0.98	0.32	1300.44 CMSDAY
MEAN	0.46	3.44	6.40	1.89	3.52	22.96	2.55	1.18	0.40	0.11	0.03	0.01	3.56 CMS
MAX	1.83	49.04	34.44	6.28	16.00	199.00	4.76	1.72	0.75	0.23	0.14	0.04	199.00 CMS
MIN	0.18	0.27	1.20	0.55	1.15	4.22	1.56	0.75	0.18	0.04	0.00	0.00	0.00 CMS
RUNOFF	1.198	9.215	16.578	5.059	9.416	59.523	6.836	3.052	1.084	0.285	0.085	0.028	112.358 MCM

MOMENTARY PEAK 444.50 CMS, AT 8.26 M (A.D), AT 11.00 HOURS, ON SEP 7, 1980
RUNOFF YIELD 13.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1658.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

LAM KONG AT BAN WANG THA DI, PHETCHABUN (S.12)

LOCATION — LAT. 15°-59'-50" N., LONG. 101°-14'-28" E., ON LEFT BANK AT BAN WANG THA DI, AMPHOE NONG PHAI, PHETCHABUN.

DRAINAGE AREA — 471 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ALONG THE GAGE LINE.

ELEVATION — +5.792 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

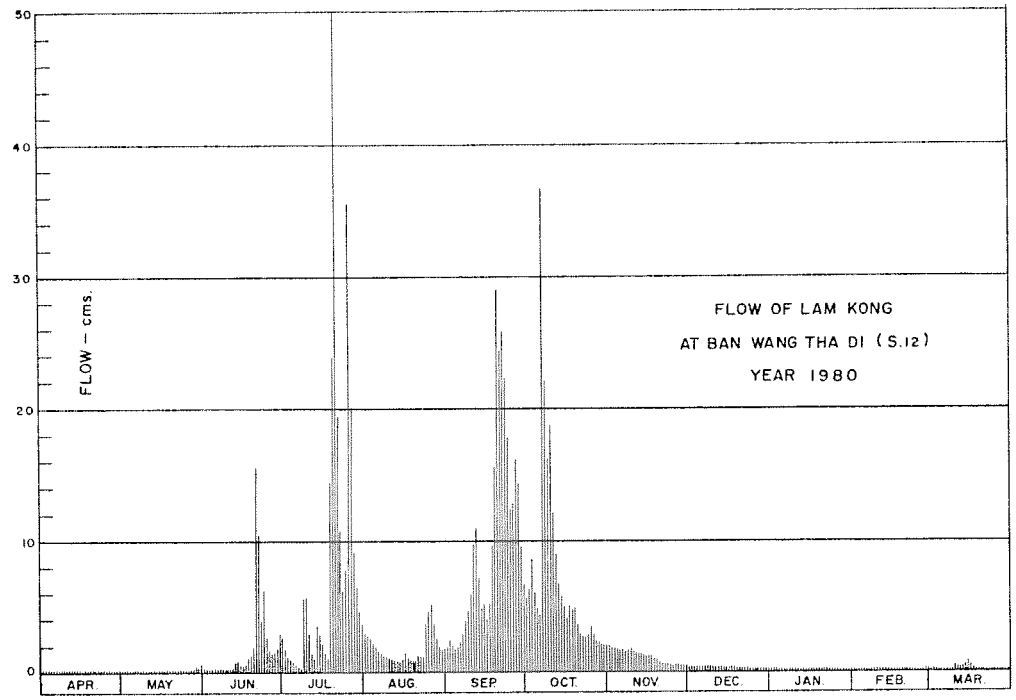
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 125 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.43	0.34	0.56	0.95	0.99	0.87	1.19	0.88	0.60	0.55	0.51	0.53	
2	0.46	0.33	0.53	0.84	0.98	0.93	1.23	0.86	0.60	0.55	0.51	0.53	
3	0.44	0.32	0.51	0.74	0.94	0.85	1.35	0.85	0.60	0.55	0.51	0.52	
4	0.43	0.30	0.49	0.70	0.90	0.84	1.25	0.84	0.59	0.54	0.51	0.52	
5	0.45	0.27	0.49	0.66	0.86	0.87	1.14	0.83	0.59	0.53	0.51	0.52	
6	0.45	0.26	0.52	0.63	0.82	0.91	1.09	0.83	0.59	0.53	0.51	0.52	
7	0.46	0.24	0.53	0.59	0.79	0.99	2.36	0.82	0.59	0.53	0.51	0.52	
8	0.45	0.22	0.50	0.58	0.77	1.08	1.94	0.84	0.59	0.53	0.51	0.52	
9	0.44	0.20	0.49	1.19	0.75	1.12	1.70	0.85	0.59	0.53	0.51	0.51	
10	0.44	0.20	0.48	1.19	0.74	1.21	1.80	0.81	0.59	0.53	0.51	0.59	
11	0.43	0.19	0.49	0.90	0.72	1.43	1.48	0.80	0.58	0.53	0.51	0.58	
12	0.43	0.19	0.57	0.77	0.70	1.48	1.33	0.79	0.58	0.53	0.50	0.58	
13	0.43	0.18	0.66	0.71	0.69	1.26	1.24	0.78	0.58	0.53	0.50	0.57	
14	0.42	0.34	0.68	1.04	0.68	1.12	1.17	0.78	0.58	0.53	0.50	0.62	
15	0.41	0.44	0.61	0.97	0.68	1.16	1.13	0.77	0.57	0.53	0.49	0.67	
16	0.40	0.43	0.60	0.88	0.81	1.07	1.08	0.77	0.57	0.52	0.49	0.57	
17	0.39	0.44	0.62	0.81	0.73	1.15	1.15	0.76	0.57	0.52	0.49	0.53	
18	0.39	0.42	0.76	0.72	0.71	1.41	1.13	0.74	0.57	0.52	0.49	0.53	
19	0.39	0.41	0.75	1.89	0.69	1.64	1.14	0.73	0.57	0.52	0.49	0.52	
20	0.38	0.41	0.87	1.98	0.70	2.14	1.05	0.66	0.57	0.52	0.49	0.51	
21	0.39	0.41	1.68	2.72	0.76	2.00	0.98	0.64	0.57	0.52	0.49	0.50	
22	0.39	0.41	1.54	1.88	0.73	2.04	0.96	0.64	0.57	0.52	0.49	0.50	
23	0.38	0.43	1.06	1.46	0.73	1.96	0.96	0.64	0.57	0.52	0.49	0.49	
24	0.38	0.44	1.22	1.22	1.07	1.80	0.98	0.63	0.56	0.52	0.49	0.49	
25	0.37	0.45	0.96	1.33	1.14	1.54	1.03	0.63	0.56	0.52	0.49	0.49	
26	0.37	0.48	0.84	2.33	1.16	1.57	0.95	0.63	0.56	0.52	0.51	0.49	
27	0.36	0.48	0.79	1.88	1.07	1.70	0.92	0.62	0.56	0.52	0.53	0.49	
28	0.36	0.54	0.82	1.38	0.93	1.62	0.90	0.62	0.56	0.52	0.55	0.49	
29	0.36	0.61	0.86	1.25	0.86	1.40	0.88	0.62	0.55	0.52		0.49	
30	0.35	0.58	0.99	1.12	0.84	1.27	0.88	0.61	0.55	0.52		0.49	
31		0.64		1.05	0.85		0.88		0.55	0.51		0.54	
MEAN	0.41	0.37	0.75	1.17	0.83	1.35	1.20	0.74	0.58	0.53	0.50	0.53	
MAX	0.46	0.64	1.68	2.72	1.16	2.14	2.36	0.88	0.60	0.55	0.55	0.67	2.72
MIN	0.35	0.18	0.48	0.58	0.68	0.84	0.88	0.61	0.55	0.51	0.49	0.49	0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.67 M (A.D), AT 14.00 HOURS, ON OCT 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.02 M (A.D)
LEFT BANK ELEVATION 7.11 M (A.D)
RIGHT BANK ELEVATION 6.92 M (A.D), DRAINAGE AREA 471 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.00	0.37	2.70	3.02	2.06	5.66	2.14	0.55	0.32	0.14	0.23	
2	0.06	0.00	0.23	1.82	2.94	2.54	6.34	1.98	0.55	0.32	0.14	0.23	
3	0.04	0.00	0.14	1.20	2.62	1.90	8.55	1.90	0.55	0.32	0.14	0.19	
4	0.03	0.00	0.09	1.00	2.30	1.82	6.70	1.82	0.50	0.28	0.14	0.19	
5	0.05	0.00	0.09	0.82	1.98	2.06	4.96	1.74	0.50	0.23	0.14	0.19	
6	0.05	0.00	0.19	0.69	1.66	2.38	4.27	1.74	0.50	0.23	0.14	0.19	
7	0.06	0.00	0.23	0.50	1.45	3.02	36.62	1.66	0.50	0.23	0.14	0.19	
8	0.05	0.00	0.10	0.46	1.35	4.14	22.66	1.82	0.50	0.23	0.14	0.19	
9	0.04	0.00	0.09	5.66	1.25	4.68	16.10	1.90	0.50	0.23	0.14	0.14	
10	0.04	0.00	0.08	5.66	1.20	5.98	18.70	1.58	0.50	0.23	0.14	0.50	
11	0.03	0.00	0.09	2.30	1.10	10.07	11.02	1.50	0.46	0.23	0.14	0.46	
12	0.03	0.00	0.41	1.35	1.00	11.02	8.17	1.45	0.46	0.23	0.10	0.46	
13	0.03	0.00	0.82	1.05	0.95	6.88	6.52	1.40	0.46	0.23	0.10	0.41	
14	0.02	0.00	0.91	3.62	0.91	4.68	5.38	1.40	0.46	0.23	0.10	0.64	
15	0.01	0.04	0.59	2.86	0.91	5.24	4.82	1.35	0.41	0.23	0.09	0.86	
16	0.00	0.03	0.55	2.14	1.58	4.01	4.14	1.35	0.41	0.19	0.09	0.41	
17	0.00	0.04	0.64	1.58	1.15	5.10	5.10	1.30	0.41	0.19	0.09	0.23	
18	0.00	0.02	1.30	1.10	1.05	9.69	4.82	1.20	0.41	0.19	0.09	0.23	
19	0.00	0.01	1.25	21.22	0.95	14.60	4.96	1.15	0.41	0.19	0.09	0.19	
20	0.00	0.01	2.06	23.82	1.00	28.92	3.75	0.82	0.41	0.19	0.09	0.14	
21	0.00	0.01	15.60	50.96	1.30	24.40	2.94	0.73	0.41	0.19	0.09	0.10	
22	0.00	0.01	12.28	20.94	1.15	25.68	2.78	0.73	0.41	0.19	0.09	0.10	
23	0.00	0.03	3.88	10.64	1.15	23.24	2.78	0.73	0.41	0.19	0.09	0.09	
24	0.00	0.04	6.16	6.16	4.01	18.70	2.94	0.69	0.37	0.19	0.09	0.09	
25	0.00	0.05	2.78	8.17	4.96	12.28	3.49	0.69	0.37	0.19	0.09	0.09	
26	0.00	0.08	1.82	35.51	5.24	12.94	2.70	0.69	0.37	0.19	0.14	0.09	
27	0.00	0.08	1.45	20.94	4.01	16.10	2.46	0.64	0.37	0.19	0.23	0.09	
28	0.00	0.28	1.66	9.12	2.54	14.10	2.30	0.64	0.37	0.19	0.32	0.09	
29	0.00	0.59	1.98	6.70	1.98	9.50	2.14	0.64	0.32	0.19		0.09	
30	0.00	0.46	3.02	4.68	1.82	7.06	2.14	0.59	0.32	0.19		0.09	
31		0.73		3.75	1.90		2.14		0.32	0.14		0.28	
TOTAL	0.57	2.51	60.86	259.12	60.43	294.79	218.05	37.97	13.49	6.76	3.52	7.47	965.54 CMSDAY
MEAN	0.02	0.08	2.03	8.36	1.95	9.83	7.03	1.27	0.44	0.22	0.13	0.24	2.65 CMS
MAX	0.06	0.73	15.60	50.96	5.24	28.92	36.62	2.14	0.55	0.32	0.32	0.86	50.96 CMS
MIN	0.00	0.00	0.08	0.46	0.91	1.82	2.14	0.59	0.32	0.14	0.09	0.09	0.00 CMS
RUNOFF	0.049	0.217	5.258	22.388	5.221	25.470	18.839	3.281	1.166	0.584	0.304	0.645	83.423 MCM

MOMENTARY PEAK 97.96 CMS, AT 3.67 M (A.D), AT 14.00 HOURS, ON OCT 7, 1980
RUNOFF YIELD 5.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 207.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

LAM SONTHI AT BAN THA YIAM, LOP BURI (S.13)

LOCATION — LAT. 15°-20'-21" N., LONG. 101°-22'-30" E., ON LEFT BANK AT BAN THA YIAM, AMPHOE CHAI BADAN, LOP BURI.

DRAINAGE AREA — 359 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-R.I.D.

LOCATION — ABOUT 15 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +8.697 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978-1980

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978-1980

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 98 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-MAY 12, 1980 AND JAN.3-MAR.31, 1981.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

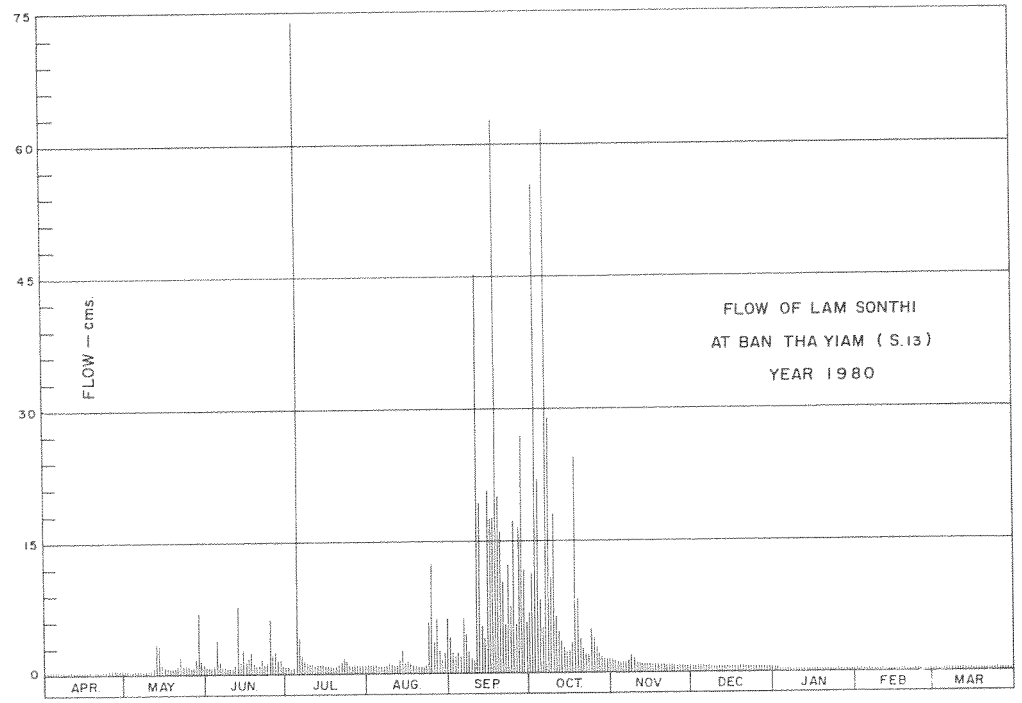
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.51	0.50	0.51	1.08	1.32	0.65	0.52	0.46	0.00	0.00	
2	0.00	0.00	0.49	0.49	0.57	0.81	1.89	0.63	0.51	0.46	0.00	0.00	
3	0.00	0.00	0.46	0.48	0.56	0.75	4.67	0.61	0.51	0.00	0.00	0.00	
4	0.00	0.00	0.49	0.47	0.53	0.80	2.93	0.60	0.51	0.00	0.00	0.00	
5	0.00	0.00	1.02	5.55	0.53	0.71	1.53	0.59	0.51	0.00	0.00	0.00	
6	0.00	0.00	0.60	0.99	0.53	1.27	1.14	0.59	0.51	0.00	0.00	0.00	
7	0.00	0.00	0.51	0.70	0.53	1.04	4.99	0.61	0.51	0.00	0.00	0.00	
8	0.00	0.00	0.49	0.61	0.54	0.78	3.29	0.74	0.50	0.00	0.00	0.00	
9	0.00	0.00	0.46	0.57	0.58	0.69	1.75	0.70	0.50	0.00	0.00	0.00	
10	0.00	0.00	0.45	0.54	0.54	0.67	2.40	0.62	0.50	0.00	0.00	0.00	
11	0.00	0.00	0.45	0.59	0.52	4.16	1.30	0.58	0.50	0.00	0.00	0.00	
12	0.00	0.00	0.61	0.53	0.51	2.22	1.06	0.57	0.50	0.00	0.00	0.00	
13	0.00	0.92	1.44	0.55	0.66	1.12	0.94	0.57	0.49	0.00	0.00	0.00	
14	0.00	0.89	0.62	0.55	0.83	1.01	0.88	0.56	0.49	0.00	0.00	0.00	
15	0.00	0.54	0.84	0.54	0.57	2.62	0.80	0.55	0.49	0.00	0.00	0.00	
16	0.00	0.50	0.61	0.53	0.62	2.36	0.78	0.55	0.49	0.00	0.00	0.00	
17	0.00	0.47	0.72	0.52	0.60	2.38	0.87	0.55	0.49	0.00	0.00	0.00	
18	0.00	0.46	0.81	0.51	0.54	5.04	2.89	0.54	0.49	0.00	0.00	0.00	
19	0.00	0.46	0.61	0.51	0.52	2.67	1.48	0.54	0.49	0.00	0.00	0.00	
20	0.00	0.45	0.57	0.52	0.51	2.36	0.99	0.54	0.48	0.00	0.00	0.00	
21	0.00	0.49	0.54	0.56	0.50	1.65	0.83	0.53	0.48	0.00	0.00	0.00	
22	0.00	0.71	0.66	0.63	0.49	1.19	0.75	0.53	0.48	0.00	0.00	0.00	
23	0.00	0.56	0.54	0.71	0.55	1.89	0.74	0.53	0.48	0.00	0.00	0.00	
24	0.00	0.52	0.59	0.58	1.57	1.42	1.12	0.53	0.48	0.00	0.00	0.00	
25	0.00	0.51	1.27	0.54	1.90	2.34	1.01	0.53	0.48	0.00	0.00	0.00	
26	0.00	0.46	0.74	0.52	0.93	1.17	0.85	0.53	0.48	0.00	0.00	0.00	
27	0.00	0.45	0.81	0.52	1.29	2.62	0.77	0.53	0.47	0.00	0.00	0.00	
28	0.00	0.69	0.63	0.52	0.76	3.07	0.69	0.52	0.47	0.00	0.00	0.00	
29	0.00	1.34	0.66	0.52	0.67	1.84	0.67	0.52	0.47	0.00		0.00	
30	0.00	0.63	0.53	0.51	0.83	1.22	0.66	0.52	0.47	0.00		0.00	
31		0.58		0.51	1.27		0.66		0.47	0.00		0.00	
MEAN	0.00	0.38	0.66	0.72	0.71	1.76	1.50	0.57	0.49	0.03	0.00	0.00	
MAX	0.00	1.34	1.44	5.55	1.90	5.04	4.99	0.74	0.52	0.46	0.00	0.00	5.55
MIN	0.00	0.00	0.45	0.47	0.49	0.67	0.66	0.52	0.47	0.00	0.00	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.20 M (A.D.), AT 9.00 HOURS, ON JUL 5, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — 0.00 M (A.D.)

LEFT BANK ELEVATION — 8.93 M (A.D.)

RIGHT BANK ELEVATION — 7.81 M (A.D.), DRAINAGE AREA — 359 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.84	0.80	0.84	4.64	6.58	1.50	0.88	0.64	0.00	0.00	
2	0.00	0.00	0.76	0.76	1.08	2.48	12.19	1.38	0.84	0.64	0.00	0.00	
3	0.00	0.00	0.64	0.72	1.04	2.10	55.20	1.26	0.84	0.00	0.00	0.00	
4	0.00	0.00	0.76	0.68	0.92	2.40	24.92	1.20	0.84	0.00	0.00	0.00	
5	0.00	0.00	4.16	73.95	0.92	1.86	8.50	1.16	0.84	0.00	0.00	0.00	
6	0.00	0.00	1.20	3.92	0.92	6.16	5.12	1.16	0.84	0.00	0.00	0.00	
7	0.00	0.00	0.84	1.80	0.92	4.32	61.60	1.26	0.84	0.00	0.00	0.00	
8	0.00	0.00	0.76	1.26	0.96	2.28	30.05	2.04	0.80	0.00	0.00	0.00	
9	0.00	0.00	0.64	1.08	1.12	1.74	10.70	1.80	0.80	0.00	0.00	0.00	
10	0.00	0.00	0.60	0.96	0.96	1.62	17.90	1.32	0.80	0.00	0.00	0.00	
11	0.00	0.00	0.60	1.16	0.88	45.14	6.40	1.12	0.80	0.00	0.00	0.00	
12	0.00	0.00	1.26	0.92	0.84	15.82	4.48	1.08	0.80	0.00	0.00	0.00	
13	0.00	3.36	7.66	1.00	1.56	4.96	3.52	1.08	0.76	0.00	0.00	0.00	
14	0.00	3.12	1.32	1.00	2.64	4.08	3.04	1.04	0.76	0.00	0.00	0.00	
15	0.00	0.96	2.72	0.96	1.08	20.66	2.40	1.00	0.76	0.00	0.00	0.00	
16	0.00	0.80	1.26	0.92	1.32	17.42	2.28	1.00	0.76	0.00	0.00	0.00	
17	0.00	0.68	1.92	0.88	1.20	17.66	2.96	1.00	0.76	0.00	0.00	0.00	
18	0.00	0.64	2.48	0.84	0.96	62.60	24.36	0.96	0.76	0.00	0.00	0.00	
19	0.00	0.64	1.26	0.84	0.88	21.31	8.02	0.96	0.76	0.00	0.00	0.00	
20	0.00	0.60	1.08	0.88	0.84	17.42	3.92	0.96	0.72	0.00	0.00	0.00	
21	0.00	0.76	0.96	1.04	0.80	9.70	2.64	0.92	0.72	0.00	0.00	0.00	
22	0.00	1.86	1.56	1.38	0.76	5.52	2.10	0.92	0.72	0.00	0.00	0.00	
23	0.00	1.04	0.96	1.86	1.00	12.19	2.04	0.92	0.72	0.00	0.00	0.00	
24	0.00	0.88	1.16	1.12	8.90	7.48	4.96	0.92	0.72	0.00	0.00	0.00	
25	0.00	0.84	6.16	0.96	12.30	17.18	4.08	0.92	0.72	0.00	0.00	0.00	
26	0.00	0.64	2.04	0.88	3.44	5.36	2.80	0.92	0.72	0.00	0.00	0.00	
27	0.00	0.60	2.48	0.88	6.32	20.66	2.22	0.92	0.68	0.00	0.00	0.00	
28	0.00	1.74	1.38	0.88	2.16	26.88	1.74	0.88	0.68	0.00	0.00	0.00	
29	0.00	6.76	1.56	0.88	1.62	11.64	1.62	0.88	0.68	0.00		0.00	
30	0.00	1.38	0.92	0.84	2.64	5.76	1.56	0.88	0.68	0.00		0.00	
31		1.12		0.84	6.16		1.56		0.68	0.00		0.00	
TOTAL	0.00	28.42	51.94	106.89	67.98	379.04	321.46	33.36	23.68	1.28	0.00	0.00	1014.05 CMSDAY
MEAN	0.00	0.92	1.73	3.45	2.19	12.63	10.37	1.11	0.76	0.04	0.00	0.00	2.78 CMS
MAX	0.00	6.76	7.66	73.95	12.30	62.60	61.60	2.04	0.88	0.64	0.00	0.00	73.95 CMS
MIN	0.00	0.00	0.60	0.68	0.76	1.62	1.56	0.88	0.68	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	2.495	4.488	9.235	5.873	32.749	27.774	2.882	2.046	0.111	0.000	0.000	87.614 MCM

MOMENTARY PEAK 89.40 CMS, AT 6.20 M (A.D), AT 9.00 HOURS, ON JUL 5, 1980
RUNOFF YIELD 7.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 249.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

LAM SONTHI AT BAN NA SOM, LOP BURI (S.14)

LOCATION — LAT. 15°-13'-24" N., LONG. 101°-16'-51" E., ON LEFT BANK AT THE BRIDGE OF LAM SONTHI, BAN NA SOM, TAMBON NONG YI TO, AMPHOE CHAI BADAN, LOP BURI.

DRAINAGE AREA — 1,247 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE GAGE OBSERVER'S HOUSE.

ELEVATION — +10.065 M.(A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

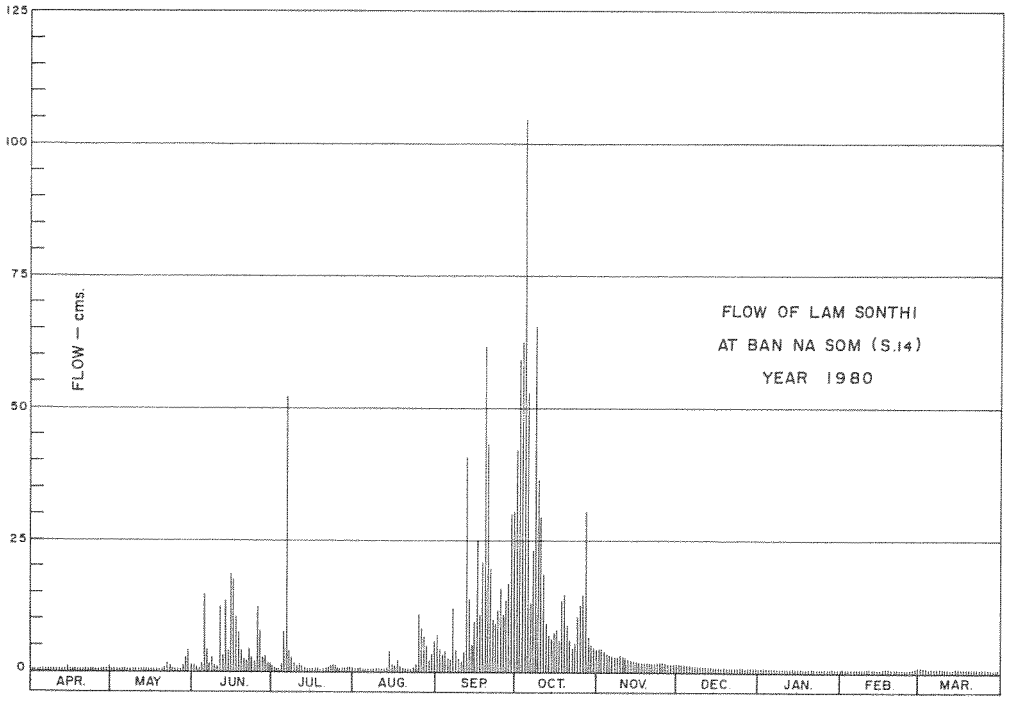
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 189 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.22	1.32	1.60	1.55	1.30	2.58	4.92	2.28	1.73	1.46	1.33	1.59	
2	1.22	1.24	1.41	1.49	1.27	2.17	6.01	2.28	1.71	1.45	1.33	1.43	
3	1.22	1.24	1.32	1.44	1.42	2.04	6.17	2.17	1.69	1.45	1.36	1.39	
4	1.27	1.24	1.46	1.41	1.32	2.19	7.75	2.09	1.68	1.44	1.34	1.33	
5	1.37	1.24	3.36	2.46	1.27	1.94	5.53	2.06	1.67	1.44	1.31	1.33	
6	1.27	1.22	2.24	5.68	1.28	1.92	3.20	2.03	1.65	1.44	1.35	1.34	
7	1.25	1.23	1.73	2.26	1.36	3.11	3.42	2.01	1.61	1.44	1.34	1.31	
8	1.23	1.22	1.98	1.96	1.41	2.24	6.29	2.00	1.59	1.44	1.33	1.30	
9	1.23	1.25	1.56	1.74	1.35	1.93	4.95	2.09	1.58	1.43	1.33	1.32	
10	1.24	1.22	1.43	1.63	1.41	1.84	4.34	2.06	1.57	1.43	1.30	1.29	
11	1.25	1.21	3.13	1.70	1.31	2.10	3.64	1.98	1.57	1.42	1.30	1.27	
12	1.24	1.24	2.03	1.59	1.27	5.08	2.86	1.90	1.56	1.41	1.30	1.28	
13	1.23	1.27	3.23	1.49	1.24	3.23	2.62	1.87	1.56	1.40	1.32	1.29	
14	1.54	1.27	2.17	1.49	2.14	2.37	2.49	1.85	1.56	1.40	1.34	1.29	
15	1.31	1.28	3.64	1.49	1.67	2.89	2.63	1.85	1.55	1.40	1.36	1.36	
16	1.28	1.27	3.56	1.43	1.59	4.09	2.70	1.82	1.54	1.41	1.39	1.33	
17	1.25	1.26	2.96	1.40	1.85	2.99	2.47	1.80	1.53	1.40	1.41	1.32	
18	1.24	1.27	2.67	1.37	1.58	3.88	3.30	1.77	1.53	1.40	1.42	1.29	
19	1.24	1.25	2.19	1.34	1.41	6.13	3.34	1.75	1.52	1.40	1.41	1.30	
20	1.23	1.24	1.90	1.33	1.32	5.10	2.70	1.78	1.51	1.40	1.43	1.28	
21	1.22	1.24	1.83	1.46	1.28	3.71	2.45	1.76	1.50	1.40	1.43	1.27	
22	1.25	1.76	2.21	1.59	1.25	2.85	2.28	1.82	1.49	1.40	1.44	1.27	
23	1.24	1.64	1.89	1.67	1.27	2.86	2.42	1.80	1.48	1.40	1.41	1.27	
24	1.22	1.35	1.69	1.70	1.64	3.18	3.03	1.80	1.49	1.38	1.41	1.25	
25	1.21	1.27	3.12	1.53	3.02	3.43	3.16	1.83	1.48	1.37	1.40	1.24	
26	1.20	1.25	2.66	1.44	2.73	2.93	3.33	1.79	1.48	1.37	1.39	1.23	
27	1.20	1.25	1.97	1.41	2.56	3.30	4.48	1.76	1.48	1.36	1.39	1.23	
28	1.34	1.43	2.00	1.41	2.27	3.56	2.57	1.76	1.48	1.35	1.41	1.23	
29	1.32	1.99	1.72	1.49	1.83	4.44	2.36	1.74	1.48	1.35		1.25	
30	1.54	2.22	1.72	1.40	2.15	4.47	2.25	1.73	1.47	1.34		1.24	
31		1.63		1.34	2.55		2.25		1.47	1.34		1.31	
MEAN	1.27	1.36	2.21	1.70	1.66	3.15	3.61	1.91	1.56	1.40	1.37	1.30	
MAX	1.54	2.22	3.64	5.68	3.02	6.13	7.75	2.28	1.73	1.46	1.44	1.59	7.75
MIN	1.20	1.21	1.32	1.33	1.24	1.84	2.25	1.73	1.47	1.34	1.30	1.23	1.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.93 M (A.D), AT 16.00 HOURS, ON OCT 4, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.40 M (A.D)
LEFT BANK ELEVATION 9.80 M (A.D)
RIGHT BANK ELEVATION 9.50 M (A.D), DRAINAGE AREA 1247 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.54	1.20	1.05	0.50	7.02	37.96	4.66	1.65	0.82	0.56	1.17	
2	0.34	0.38	0.72	0.88	0.44	3.92	59.12	4.66	1.55	0.80	0.56	0.76	
3	0.34	0.38	0.54	0.78	0.74	3.20	62.71	3.92	1.47	0.80	0.62	0.68	
4	0.44	0.38	0.82	0.72	0.54	4.04	104.50	3.45	1.44	0.78	0.58	0.56	
5	0.64	0.38	14.96	5.98	0.44	2.70	49.10	3.30	1.41	0.78	0.52	0.56	
6	0.44	0.34	4.38	52.10	0.46	2.60	13.20	3.15	1.35	0.78	0.60	0.58	
7	0.40	0.36	1.65	4.52	0.62	12.21	15.66	3.05	1.23	0.78	0.58	0.52	
8	0.36	0.34	2.90	2.80	0.72	4.38	65.47	3.00	1.17	0.78	0.56	0.50	
9	0.36	0.40	1.08	1.70	0.60	2.65	38.50	3.45	1.14	0.76	0.56	0.54	
10	0.38	0.34	0.76	1.29	0.72	2.20	28.60	3.30	1.11	0.76	0.50	0.48	
11	0.40	0.32	12.43	1.50	0.52	3.50	18.52	2.90	1.11	0.74	0.50	0.44	
12	0.38	0.38	3.15	1.17	0.44	40.84	9.60	2.50	1.08	0.72	0.50	0.46	
13	0.36	0.44	13.53	0.88	0.38	13.53	7.38	2.35	1.08	0.70	0.54	0.48	
14	1.02	0.44	3.92	0.88	3.74	5.29	6.22	2.25	1.08	0.70	0.58	0.48	
15	0.52	0.46	18.52	0.88	1.41	9.90	7.47	2.25	1.05	0.70	0.62	0.62	
16	0.46	0.44	17.48	0.76	1.17	24.85	8.10	2.10	1.02	0.72	0.68	0.56	
17	0.40	0.42	10.60	0.70	2.25	10.90	6.06	2.00	0.99	0.70	0.72	0.54	
18	0.38	0.44	7.83	0.64	1.14	21.82	14.30	1.85	0.99	0.70	0.74	0.48	
19	0.38	0.40	4.04	0.58	0.72	61.79	14.74	1.75	0.96	0.70	0.72	0.50	
20	0.36	0.38	2.50	0.56	0.54	41.20	8.10	1.90	0.93	0.70	0.76	0.46	
21	0.34	0.38	2.15	0.82	0.46	19.44	5.90	1.80	0.90	0.70	0.76	0.44	
22	0.40	1.80	4.17	1.17	0.40	9.50	4.66	2.10	0.88	0.70	0.78	0.44	
23	0.38	1.32	2.45	1.41	0.44	9.60	5.66	2.00	0.86	0.70	0.72	0.44	
24	0.34	0.60	1.47	1.50	1.32	12.98	11.33	2.00	0.88	0.66	0.72	0.40	
25	0.32	0.44	12.32	0.99	11.22	15.79	12.76	2.15	0.86	0.64	0.70	0.38	
26	0.30	0.40	7.74	0.78	8.37	10.30	14.63	1.95	0.86	0.64	0.68	0.36	
27	0.30	0.40	2.85	0.72	6.84	14.30	30.70	1.80	0.86	0.62	0.68	0.36	
28	0.58	0.76	3.00	0.72	4.59	17.48	6.93	1.80	0.86	0.60	0.72	0.36	
29	0.54	2.95	1.60	0.88	2.15	30.10	5.22	1.70	0.86	0.60		0.40	
30	1.02	4.24	1.60	0.70	3.80	30.55	4.45	1.65	0.84	0.58		0.38	
31		1.29		0.58	6.75		4.45		0.84	0.58		0.52	
TOTAL	13.22	22.54	162.36	90.64	64.43	448.58	682.00	76.74	33.31	21.94	17.76	15.85	1649.37 CMSDAY
MEAN	0.44	0.73	5.41	2.92	2.08	14.95	22.00	2.56	1.07	0.71	0.63	0.51	4.52 CMS
MAX	1.02	4.24	18.52	52.10	11.22	61.79	104.50	4.66	1.65	0.82	0.78	1.17	104.50 CMS
MIN	0.30	0.32	0.54	0.56	0.38	2.20	4.45	1.65	0.84	0.58	0.50	0.36	0.30 CMS
RUNOFF	1.142	1.947	14.028	7.831	5.567	38.757	58.925	6.630	2.878	1.896	1.534	1.369	142.505 MCM

MOMENTARY PEAK 110.03 CMS, AT 7.93 M (A.D), AT 16.00 HOURS, ON OCT 4, 1980

RUNOFF YIELD 3.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 88.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

HUAI WANG CHOMPHU AT BAN WANG CHOMPHU, PHETCHABUN (S.15)

LOCATION — LAT. 16°-15'-36" N., LONG. 101°-02'-07" E., ON RIGHT BANK AT THE BRIDGE OF AMPHOE CHON DAN-BAN SAM YAEK WANG CHOMPHU ROAD, BAN WANG CHOMPHU, AMPHOE MUANG, PHETCHABUN.

DRAINAGE AREA — 15 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK AT THE FOOT OF THE BRIDGE.

ELEVATION — +4.894 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

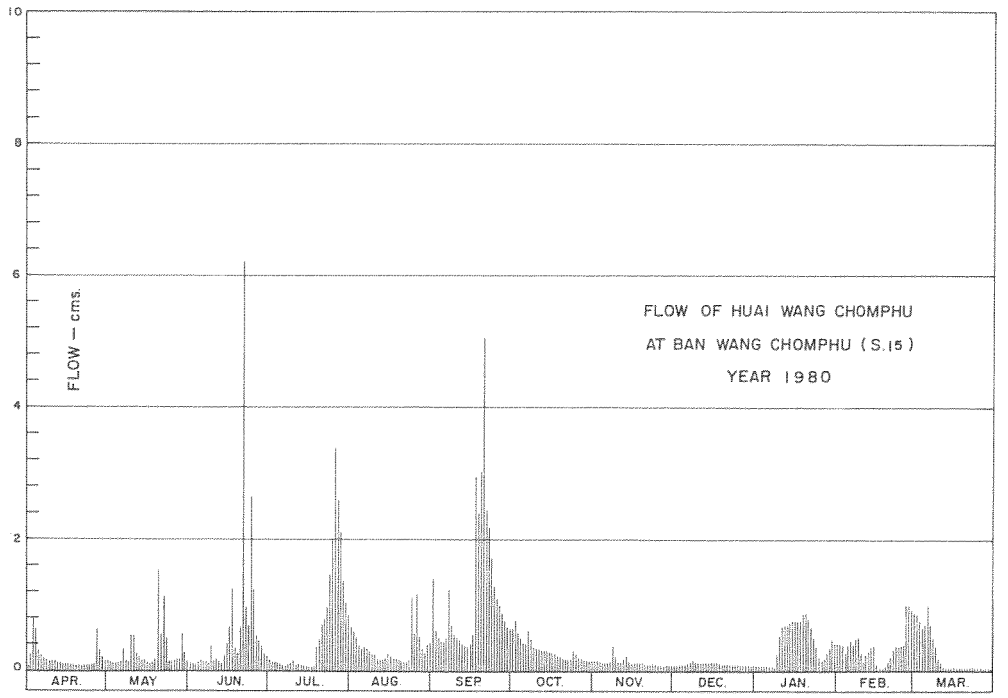
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.08	0.07	0.09	0.22	0.33	0.21	0.09	0.05	0.04	0.16	0.25	
2	0.13	0.08	0.07	0.08	0.21	0.21	0.23	0.08	0.05	0.04	0.16	0.25	
3	0.24	0.07	0.06	0.07	0.19	0.19	0.20	0.08	0.05	0.04	0.15	0.24	
4	0.22	0.07	0.09	0.07	0.17	0.17	0.18	0.07	0.05	0.04	0.13	0.21	
5	0.12	0.08	0.10	0.06	0.14	0.16	0.17	0.07	0.05	0.04	0.16	0.22	
6	0.11	0.08	0.08	0.05	0.15	0.19	0.16	0.07	0.06	0.03	0.17	0.27	
7	0.09	0.14	0.07	0.05	0.14	0.31	0.21	0.08	0.08	0.03	0.16	0.23	
8	0.09	0.08	0.07	0.08	0.13	0.22	0.17	0.15	0.08	0.03	0.19	0.18	
9	0.08	0.08	0.15	0.07	0.12	0.20	0.14	0.09	0.08	0.13	0.19	0.15	
10	0.08	0.20	0.08	0.09	0.12	0.19	0.14	0.08	0.07	0.21	0.16	0.10	
11	0.09	0.19	0.10	0.05	0.10	0.18	0.14	0.08	0.07	0.22	0.06	0.07	
12	0.07	0.12	0.08	0.05	0.10	0.16	0.13	0.10	0.07	0.22	0.12	0.03	
13	0.07	0.11	0.07	0.04	0.10	0.15	0.13	0.11	0.07	0.22	0.13	0.03	
14	0.07	0.09	0.12	0.04	0.10	0.15	0.13	0.08	0.07	0.23	0.15	0.03	
15	0.07	0.09	0.19	0.04	0.12	0.15	0.13	0.07	0.07	0.23	0.15	0.03	
16	0.06	0.08	0.23	0.04	0.11	0.20	0.12	0.07	0.07	0.23	0.04	0.03	
17	0.06	0.08	0.31	0.03	0.10	0.51	0.12	0.07	0.07	0.23	0.03	0.03	
18	0.06	0.08	0.14	0.05	0.10	0.45	0.11	0.07	0.06	0.23	0.03	0.02	
19	0.05	0.10	0.12	0.19	0.09	0.52	0.11	0.07	0.06	0.25	0.05	0.02	
20	0.05	0.35	0.23	0.18	0.09	0.69	0.10	0.06	0.05	0.25	0.07	0.02	
21	0.05	0.20	0.77	0.23	0.08	0.46	0.10	0.06	0.05	0.24	0.11	0.02	
22	0.05	0.29	0.28	0.24	0.08	0.43	0.10	0.06	0.05	0.22	0.14	0.02	
23	0.05	0.20	0.22	0.28	0.09	0.37	0.10	0.06	0.05	0.20	0.15	0.02	
24	0.05	0.09	0.48	0.37	0.29	0.32	0.13	0.06	0.05	0.14	0.15	0.01	
25	0.06	0.08	0.31	0.45	0.20	0.29	0.12	0.05	0.05	0.09	0.16	-0.01	
26	0.06	0.10	0.20	0.55	0.30	0.27	0.10	0.05	0.04	0.08	0.16	-0.01	
27	0.21	0.10	0.17	0.50	0.19	0.25	0.09	0.05	0.04	0.09	0.27	-0.01	
28	0.13	0.10	0.15	0.41	0.14	0.23	0.09	0.05	0.04	0.12	0.27	-0.01	
29	0.10	0.20	0.12	0.35	0.12	0.22	0.09	0.05	0.04	0.14		0.01	
30	0.09	0.12	0.11	0.28	0.16	0.21	0.09	0.05	0.04	0.18		0.01	
31		0.08		0.25	0.17		0.09		0.04	0.16		0.02	
MEAN	0.09	0.12	0.17	0.17	0.14	0.28	0.13	0.07	0.06	0.15	0.14	0.08	
MAX	0.24	0.35	0.77	0.55	0.30	0.69	0.23	0.15	0.08	0.25	0.27	0.27	0.77
MIN	0.04	0.07	0.06	0.03	0.08	0.15	0.09	0.05	0.04	0.03	0.03	-0.01	-0.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.10 M (A.D), AT 9.00 HOURS, ON JUN 21, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.10 M (A.D)
LEFT BANK ELEVATION 4.65 M (A.D)
RIGHT BANK ELEVATION 4.42 M (A.D), DRAINAGE AREA 15 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.072	0.144	0.126	0.162	0.690	1.398	0.630	0.162	0.090	0.072	0.414	0.870	
2	0.297	0.144	0.126	0.144	0.630	0.630	0.750	0.144	0.090	0.072	0.414	0.870	
3	0.810	0.126	0.108	0.126	0.531	0.531	0.570	0.144	0.090	0.072	0.375	0.810	
4	0.690	0.126	0.162	0.126	0.453	0.453	0.492	0.126	0.090	0.072	0.297	0.630	
5	0.258	0.144	0.180	0.108	0.336	0.414	0.453	0.126	0.090	0.072	0.414	0.690	
6	0.219	0.144	0.144	0.090	0.375	0.531	0.414	0.126	0.108	0.054	0.453	0.990	
7	0.162	0.336	0.126	0.090	0.336	1.246	0.630	0.144	0.144	0.054	0.414	0.750	
8	0.162	0.144	0.126	0.144	0.297	0.690	0.453	0.375	0.144	0.054	0.531	0.492	
9	0.144	0.144	0.375	0.126	0.258	0.570	0.336	0.162	0.144	0.297	0.531	0.375	
10	0.144	0.570	0.144	0.162	0.258	0.531	0.336	0.144	0.126	0.630	0.414	0.180	
11	0.162	0.531	0.180	0.090	0.180	0.492	0.336	0.144	0.126	0.690	0.108	0.126	
12	0.126	0.258	0.144	0.090	0.180	0.414	0.297	0.180	0.126	0.690	0.258	0.054	
13	0.126	0.219	0.126	0.072	0.180	0.375	0.297	0.219	0.126	0.690	0.297	0.054	
14	0.126	0.162	0.258	0.072	0.180	0.375	0.297	0.144	0.126	0.750	0.375	0.054	
15	0.126	0.162	0.531	0.072	0.258	0.375	0.297	0.126	0.126	0.750	0.375	0.054	
16	0.108	0.144	0.750	0.072	0.219	0.570	0.258	0.126	0.126	0.750	0.072	0.054	
17	0.108	0.144	1.246	0.054	0.180	2.939	0.258	0.126	0.126	0.750	0.054	0.054	
18	0.108	0.144	0.336	0.090	0.180	2.380	0.219	0.126	0.108	0.750	0.054	0.036	
19	0.090	0.180	0.258	0.531	0.162	3.048	0.219	0.126	0.108	0.870	0.090	0.036	
20	0.090	1.550	0.750	0.492	0.162	5.054	0.180	0.108	0.090	0.870	0.126	0.036	
21	0.090	0.570	6.202	0.750	0.144	2.470	0.180	0.108	0.090	0.810	0.219	0.036	
22	0.090	1.110	1.050	0.810	0.144	2.200	0.180	0.108	0.090	0.690	0.336	0.036	
23	0.090	0.570	0.690	1.050	0.162	1.702	0.180	0.108	0.090	0.570	0.375	0.036	
24	0.090	0.162	2.650	1.702	1.110	1.322	0.297	0.108	0.090	0.336	0.375	0.018	
25	0.108	0.144	1.246	2.380	0.570	1.110	0.258	0.090	0.090	0.162	0.414	0.000	
26	0.108	0.180	0.570	3.375	1.170	0.990	0.180	0.090	0.072	0.144	0.414	0.000	
27	0.630	0.180	0.453	2.830	0.531	0.870	0.162	0.090	0.072	0.162	0.990	0.000	
28	0.297	0.150	0.375	2.020	0.336	0.750	0.162	0.090	0.072	0.258	0.990	0.000	
29	0.180	0.570	0.258	1.550	0.258	0.690	0.162	0.090	0.072	0.336		0.018	
30	0.162	0.258	0.219	1.050	0.414	0.630	0.162	0.090	0.072	0.492		0.018	
31		0.144		0.870	0.453		0.162		0.072	0.414		0.036	
TOTAL	5.973	9.584	19.909	21.300	11.337	35.750	9.807	4.050	3.186	13.383	10.179	7.413	151.871 CMSDAY
MEAN	0.199	0.309	0.664	0.687	0.366	1.192	0.316	0.135	0.103	0.432	0.364	0.239	0.416 CMS
MAX	0.810	1.550	6.202	3.375	1.170	5.054	0.750	0.375	0.144	0.870	0.990	0.990	6.202 CMS
MIN	0.072	0.126	0.108	0.054	0.144	0.375	0.162	0.090	0.072	0.054	0.054	0.000	0.000 CMS
RUNOFF	0.516	0.828	1.720	1.840	0.980	3.089	0.847	0.350	0.275	1.156	0.879	0.640	13.122 MCM

MOMENTARY PEAK 40.00 CMS, AT 2.10 M (A.D), AT 9.00 HOURS, ON JUN 21, 1980

RUNOFF YIELD 27.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2666.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

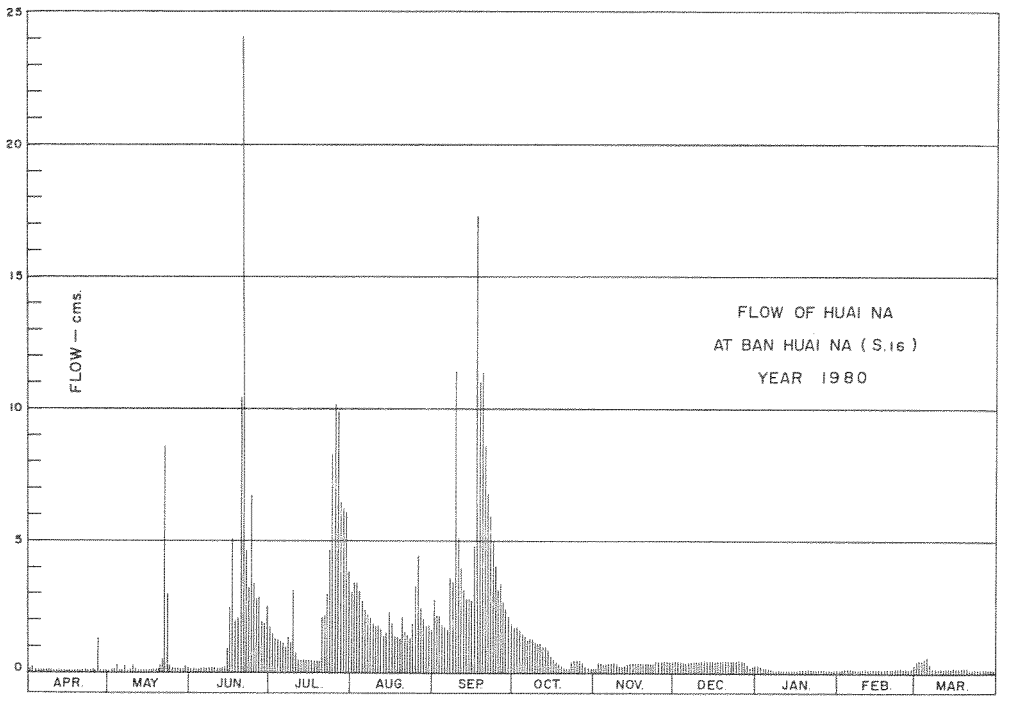
HUAI NA AT BAN HUAI NA, PHETCHABUN (S.16)

LOCATION	LAT. 16°-16'-00" N., LONG. 101°-03'-32" E., ON RIGHT BANK ABOUT 30 METERS DOWNSTREAM FROM THE BRIDGE AT BAN HUAI NA, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	65 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE FOOT OF THE BRIDGE.
ELEVATION	+8.339 M. (A.D.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.12	0.19	0.56	0.67	0.65	0.54	0.21	0.28	0.24	0.15	0.29	
2	0.20	0.12	0.19	0.51	0.70	0.60	0.55	0.27	0.28	0.21	0.17	0.30	
3	0.11	0.15	0.19	0.49	0.70	0.59	0.54	0.25	0.28	0.20	0.18	0.30	
4	0.11	0.24	0.19	0.47	0.66	0.55	0.51	0.25	0.28	0.20	0.18	0.31	
5	0.11	0.12	0.19	0.46	0.64	0.55	0.50	0.25	0.28	0.19	0.18	0.33	
6	0.11	0.13	0.20	0.46	0.62	0.53	0.47	0.25	0.28	0.16	0.17	0.24	
7	0.11	0.23	0.20	0.43	0.60	0.71	0.49	0.25	0.28	0.13	0.16	0.16	
8	0.11	0.12	0.20	0.50	0.59	0.70	0.47	0.25	0.28	0.12	0.16	0.16	
9	0.11	0.14	0.20	0.45	0.56	0.97	0.45	0.25	0.28	0.12	0.16	0.16	
10	0.11	0.23	0.20	0.68	0.55	0.80	0.45	0.23	0.28	0.12	0.16	0.16	
11	0.11	0.14	0.20	0.37	0.55	0.72	0.45	0.23	0.28	0.12	0.15	0.16	
12	0.11	0.14	0.20	0.30	0.54	0.68	0.42	0.23	0.28	0.12	0.16	0.16	
13	0.11	0.14	0.20	0.30	0.50	0.65	0.43	0.24	0.28	0.13	0.17	0.16	
14	0.10	0.14	0.20	0.30	0.52	0.65	0.39	0.25	0.28	0.13	0.17	0.16	
15	0.10	0.14	0.40	0.30	0.61	0.65	0.33	0.25	0.28	0.13	0.16	0.16	
16	0.10	0.14	0.64	0.30	0.57	0.75	0.30	0.25	0.28	0.13	0.16	0.16	
17	0.10	0.14	0.78	0.30	0.50	1.10	0.26	0.25	0.28	0.15	0.17	0.16	
18	0.10	0.14	0.58	0.30	0.50	0.96	0.25	0.25	0.28	0.15	0.17	0.16	
19	0.09	0.14	0.53	0.30	0.49	0.97	0.22	0.25	0.28	0.15	0.18	0.16	
20	0.09	0.14	0.84	0.33	0.59	0.95	0.20	0.25	0.28	0.15	0.18	0.14	
21	0.09	0.29	1.21	0.59	0.52	0.85	0.20	0.25	0.28	0.15	0.17	0.13	
22	0.09	0.90	0.76	0.60	0.50	0.82	0.21	0.25	0.28	0.15	0.16	0.13	
23	0.09	0.72	0.69	0.70	0.49	0.78	0.30	0.25	0.28	0.15	0.15	0.15	
24	0.09	0.23	0.84	0.79	0.58	0.74	0.32	0.29	0.28	0.14	0.15	0.15	
25	0.09	0.19	0.70	0.94	0.71	0.68	0.31	0.28	0.28	0.14	0.15	0.15	
26	0.09	0.18	0.65	0.94	0.75	0.70	0.30	0.28	0.28	0.14	0.16	0.15	
27	0.49	0.18	0.66	0.93	0.62	0.64	0.25	0.28	0.27	0.14	0.17	0.15	
28	0.12	0.18	0.57	0.83	0.58	0.63	0.20	0.28	0.21	0.15	0.18	0.15	
29	0.12	0.18	0.56	0.82	0.59	0.60	0.20	0.28	0.20	0.15		0.15	
30	0.12	0.22	0.63	0.82	0.55	0.56	0.20	0.28	0.23	0.15		0.15	
31		0.20		0.72	0.53		0.20		0.23	0.15		0.15	
MEAN	0.12	0.21	0.46	0.54	0.58	0.72	0.35	0.25	0.27	0.15	0.17	0.18	
MAX	0.49	0.90	1.21	0.94	0.75	1.10	0.55	0.29	0.28	0.24	0.18	0.33	1.21
MIN	0.09	0.12	0.19	0.30	0.49	0.53	0.20	0.21	0.20	0.12	0.15	0.13	0.09

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.53 M (A.D), AT 10.00 HOURS, ON JUN 21, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.05 M (A.D)
LEFT BANK ELEVATION 7.06 M (A.D)
RIGHT BANK ELEVATION 8.34 M (A.D), DRAINAGE AREA 65 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.08	0.18	1.88	3.04	2.80	1.72	0.23	0.44	0.32	0.12	0.47	
2	0.20	0.08	0.18	1.48	3.40	2.20	1.80	0.41	0.44	0.23	0.15	0.50	
3	0.06	0.12	0.18	1.35	3.40	2.12	1.72	0.35	0.44	0.20	0.17	0.50	
4	0.06	0.32	0.18	1.25	2.92	1.80	1.48	0.35	0.44	0.20	0.17	0.54	
5	0.06	0.08	0.18	1.20	2.68	1.80	1.40	0.35	0.44	0.18	0.17	0.62	
6	0.06	0.09	0.20	1.20	2.44	1.64	1.25	0.35	0.44	0.14	0.15	0.32	
7	0.06	0.29	0.20	1.05	2.20	3.61	1.35	0.35	0.44	0.09	0.14	0.14	
8	0.06	0.08	0.20	1.40	2.12	3.40	1.25	0.35	0.44	0.08	0.14	0.14	
9	0.06	0.11	0.20	1.15	1.88	11.40	1.15	0.35	0.44	0.08	0.14	0.14	
10	0.06	0.29	0.20	3.16	1.80	5.50	1.15	0.29	0.44	0.08	0.14	0.14	
11	0.06	0.11	0.20	0.78	1.80	3.82	1.15	0.29	0.44	0.08	0.12	0.14	
12	0.06	0.11	0.20	0.50	1.72	3.16	1.00	0.29	0.44	0.08	0.14	0.14	
13	0.06	0.11	0.20	0.50	1.40	2.80	1.05	0.32	0.44	0.09	0.15	0.14	
14	0.05	0.11	0.20	0.50	1.56	2.80	0.86	0.35	0.44	0.09	0.15	0.14	
15	0.05	0.11	0.90	0.50	2.32	2.80	0.62	0.35	0.44	0.09	0.14	0.14	
16	0.05	0.11	2.68	0.50	1.96	4.45	0.50	0.35	0.44	0.09	0.14	0.14	
17	0.05	0.11	5.08	0.50	1.40	17.30	0.38	0.35	0.44	0.12	0.15	0.14	
18	0.05	0.11	2.04	0.50	1.40	11.00	0.35	0.35	0.44	0.12	0.15	0.14	
19	0.04	0.11	1.64	0.50	1.35	11.40	0.26	0.35	0.44	0.12	0.17	0.14	
20	0.04	0.11	6.74	0.62	2.12	10.60	0.20	0.35	0.44	0.12	0.17	0.11	
21	0.04	0.47	24.04	2.12	1.56	7.05	0.20	0.35	0.44	0.12	0.15	0.09	
22	0.04	8.60	4.66	2.20	1.40	6.12	0.23	0.35	0.44	0.12	0.14	0.09	
23	0.04	3.82	3.28	3.40	1.35	5.08	0.50	0.35	0.44	0.12	0.12	0.12	
24	0.04	0.29	6.74	5.29	2.04	4.24	0.58	0.47	0.44	0.11	0.12	0.12	
25	0.04	0.18	3.40	10.20	3.61	3.16	0.54	0.44	0.44	0.11	0.12	0.12	
26	0.04	0.17	2.80	10.20	4.45	3.40	0.50	0.44	0.44	0.11	0.14	0.12	
27	1.35	0.17	2.92	9.80	2.44	2.68	0.35	0.44	0.41	0.11	0.15	0.12	
28	0.08	0.17	1.96	6.43	2.04	2.56	0.20	0.44	0.23	0.12	0.17	0.12	
29	0.08	0.17	1.88	6.12	1.80	2.20	0.20	0.44	0.20	0.12		0.12	
30	0.08	0.26	2.56	6.12	1.80	1.88	0.20	0.44	0.29	0.12		0.12	
31		0.20		3.82	1.64		0.20		0.29	0.12		0.12	
TOTAL	3.06	17.14	76.02	86.22	67.04	144.77	24.34	10.89	12.86	3.88	4.08	6.14	456.44 CMSDAY
MEAN	0.10	0.55	2.53	2.78	2.16	4.83	0.79	0.36	0.41	0.13	0.15	0.20	1.25 CMS
MAX	1.35	8.60	24.04	10.20	4.45	17.30	1.80	0.47	0.44	0.32	0.17	0.62	24.04 CMS
MIN	0.04	0.08	0.18	0.50	1.35	1.64	0.20	0.23	0.20	0.08	0.12	0.09	0.04 CMS
RUNOFF	0.264	1.481	6.568	7.449	5.792	12.508	2.103	0.941	1.111	0.335	0.353	0.530	39.436 MCM

MOMENTARY PEAK 52.22 CMS, AT 1.53 M (A.D), AT 10.00 HOURS, ON JUN 21, 1980
RUNOFF YIELD 19.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 803.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

HUAI NAM CHUN AT BAN FAI WANG BON, PHETCHABUN (S.17)

LOCATION — LAT. 16°-45'-43" N., LONG. 101°-08'-44" E., ON LEFT BANK NEAR THE ABUTMENT OF THE BRIDGE OF PHITSANULOK-LOMSAK ROAD, BAN FAI WANG BON, AMPHOE LOM SAK, PHETCHABUN.

DRAINAGE AREA — 67 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +5.982 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

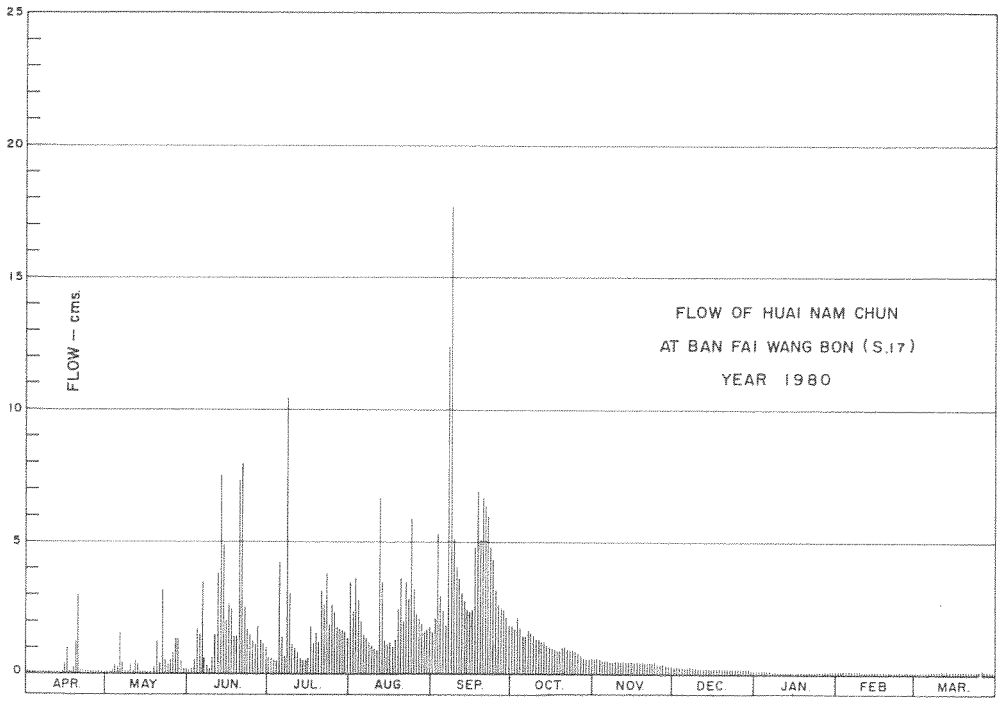
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.04	0.11	0.20	0.41	0.29	0.31	0.20	0.14	0.11	0.07	0.05	
2	0.05	0.04	0.11	0.20	0.34	0.33	0.30	0.20	0.14	0.11	0.07	0.05	
3	0.05	0.13	0.19	0.20	0.42	0.51	0.33	0.20	0.14	0.11	0.07	0.05	
4	0.05	0.16	0.30	0.18	0.36	0.38	0.30	0.20	0.14	0.11	0.07	0.05	
5	0.07	0.05	0.27	0.45	0.32	0.33	0.28	0.19	0.14	0.11	0.07	0.05	
6	0.06	0.29	0.41	0.28	0.29	0.30	0.28	0.19	0.14	0.11	0.07	0.05	
7	0.06	0.17	0.20	0.21	0.27	0.88	0.30	0.19	0.14	0.10	0.07	0.06	
8	0.06	0.08	0.14	0.75	0.26	1.03	0.29	0.19	0.14	0.10	0.07	0.06	
9	0.06	0.06	0.12	0.39	0.25	0.51	0.28	0.19	0.13	0.10	0.07	0.06	
10	0.06	0.17	0.21	0.25	0.24	0.45	0.27	0.19	0.13	0.10	0.07	0.06	
11	0.06	0.07	0.31	0.23	0.23	0.42	0.27	0.19	0.13	0.10	0.07	0.07	
12	0.08	0.19	0.48	0.22	0.58	0.39	0.26	0.19	0.13	0.10	0.07	0.07	
13	0.05	0.16	0.62	0.20	0.43	0.37	0.26	0.18	0.13	0.10	0.07	0.08	
14	0.05	0.06	0.47	0.20	0.26	0.35	0.25	0.18	0.13	0.09	0.07	0.08	
15	0.19	0.05	0.32	0.20	0.25	0.34	0.24	0.18	0.13	0.09	0.07	0.06	
16	0.24	0.05	0.36	0.21	0.26	0.35	0.24	0.18	0.13	0.09	0.07	0.05	
17	0.06	0.05	0.35	0.31	0.24	0.51	0.24	0.18	0.13	0.09	0.06	0.04	
18	0.05	0.05	0.28	0.25	0.27	0.59	0.23	0.18	0.13	0.09	0.06	0.03	
19	0.22	0.16	0.28	0.29	0.36	0.50	0.23	0.17	0.12	0.09	0.06	0.03	
20	0.38	0.26	0.61	0.26	0.42	0.58	0.24	0.17	0.12	0.09	0.06	0.03	
21	0.07	0.16	0.64	0.39	0.32	0.57	0.24	0.17	0.12	0.09	0.06	0.03	
22	0.04	0.39	0.33	0.36	0.41	0.55	0.23	0.17	0.12	0.09	0.06	0.03	
23	0.04	0.19	0.30	0.42	0.37	0.49	0.23	0.17	0.12	0.08	0.06	0.02	
24	0.04	0.14	0.29	0.31	0.54	0.46	0.23	0.17	0.12	0.08	0.06	0.01	
25	0.04	0.19	0.26	0.36	0.40	0.41	0.23	0.16	0.12	0.08	0.06	0.00	
26	0.04	0.23	0.25	0.35	0.34	0.36	0.22	0.16	0.12	0.08	0.06	0.01	
27	0.04	0.27	0.31	0.31	0.33	0.35	0.21	0.16	0.12	0.08	0.06	0.02	
28	0.04	0.27	0.27	0.30	0.32	0.35	0.20	0.15	0.12	0.08	0.06	0.03	
29	0.04	0.17	0.25	0.30	0.29	0.33	0.20	0.15	0.12	0.08		0.02	
30	0.04	0.12	0.24	0.30	0.30	0.31	0.20	0.15	0.11	0.08		0.02	
31		0.12		0.27	0.31		0.20		0.11	0.08		0.02	
MEAN	0.08	0.15	0.31	0.30	0.34	0.45	0.25	0.18	0.13	0.09	0.07	0.04	
MAX	0.38	0.39	0.64	0.75	0.58	1.03	0.33	0.20	0.14	0.11	0.07	0.08	1.03
MIN	0.04	0.04	0.11	0.18	0.23	0.29	0.20	0.15	0.11	0.08	0.06	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.00 M (A.D), AT 15.00 HOURS, ON SEP 8, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.13 M (A.D)

LEFT BANK ELEVATION — 6.56 M (A.D)

RIGHT BANK ELEVATION — 5.98 M (A.D), DRAINAGE AREA 67 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.00	0.15	0.60	3.48	1.59	1.86	0.60	0.30	0.15	0.04	0.00	
2	0.00	0.00	0.15	0.60	2.34	2.18	1.70	0.60	0.30	0.15	0.04	0.00	
3	0.00	0.25	0.55	0.60	3.66	5.30	2.18	0.60	0.30	0.15	0.04	0.00	
4	0.00	0.40	1.70	0.50	2.66	2.98	1.70	0.60	0.30	0.15	0.04	0.00	
5	0.04	0.00	1.37	4.20	2.02	2.18	1.48	0.55	0.30	0.15	0.04	0.00	
6	0.02	1.59	3.48	1.48	1.59	1.70	1.48	0.55	0.30	0.15	0.04	0.00	
7	0.02	0.45	0.60	0.71	1.37	13.62	1.70	0.55	0.30	0.10	0.04	0.02	
8	0.02	0.06	0.30	10.50	1.26	17.64	1.59	0.55	0.30	0.10	0.04	0.02	
9	0.02	0.02	0.20	3.14	1.15	5.30	1.48	0.55	0.25	0.10	0.04	0.02	
10	0.02	0.45	0.71	1.15	1.04	4.20	1.37	0.55	0.25	0.10	0.04	0.02	
11	0.02	0.04	1.86	0.93	0.93	3.66	1.37	0.55	0.25	0.10	0.04	0.04	
12	0.06	0.55	4.74	0.82	6.70	3.14	1.26	0.55	0.25	0.10	0.04	0.04	
13	0.00	0.40	7.54	0.60	3.84	2.82	1.26	0.50	0.25	0.10	0.04	0.06	
14	0.00	0.02	4.56	0.60	1.26	2.50	1.15	0.50	0.25	0.08	0.04	0.06	
15	0.55	0.00	2.02	0.60	1.15	2.34	1.04	0.50	0.25	0.08	0.04	0.02	
16	1.04	0.00	2.66	0.71	1.26	2.50	1.04	0.50	0.25	0.08	0.04	0.00	
17	0.02	0.00	2.50	1.86	1.04	5.30	1.04	0.50	0.25	0.08	0.02	0.00	
18	0.00	0.00	1.48	1.15	1.37	6.90	0.93	0.50	0.25	0.08	0.02	0.00	
19	0.82	0.40	1.48	1.59	2.66	5.10	0.93	0.45	0.20	0.08	0.02	0.00	
20	2.98	1.26	7.32	1.26	3.66	6.70	1.04	0.45	0.20	0.08	0.02	0.00	
21	0.04	0.40	7.98	3.14	2.02	6.50	1.04	0.45	0.20	0.08	0.02	0.00	
22	0.00	3.14	2.18	2.66	3.48	6.10	0.93	0.45	0.20	0.08	0.02	0.00	
23	0.00	0.55	1.70	3.66	2.82	4.92	0.93	0.45	0.20	0.06	0.02	0.00	
24	0.00	0.30	1.59	1.86	5.90	4.38	0.93	0.45	0.20	0.06	0.02	0.00	
25	0.00	0.55	1.26	2.66	3.30	3.48	0.93	0.40	0.20	0.06	0.02	0.00	
26	0.00	0.93	1.15	2.50	2.34	2.66	0.82	0.40	0.20	0.06	0.02	0.00	
27	0.00	1.37	1.86	1.86	2.18	2.50	0.71	0.40	0.20	0.06	0.02	0.00	
28	0.00	1.37	1.37	1.70	2.02	2.50	0.60	0.35	0.20	0.06	0.02	0.00	
29	0.00	0.45	1.15	1.70	1.59	2.18	0.60	0.35	0.20	0.06		0.00	
30	0.00	0.20	1.04	1.70	1.70	1.86	0.60	0.35	0.15	0.06		0.00	
31		0.20		1.37	1.86		0.60		0.15	0.06		0.00	
TOTAL	5.69	15.35	66.65	58.41	73.65	134.73	36.29	14.75	7.40	2.86	0.88	0.30	416.96 CMSDAY
MEAN	0.19	0.50	2.22	1.88	2.38	4.49	1.17	0.49	0.24	0.09	0.03	0.01	1.14 CMS
MAX	2.98	3.14	7.98	10.50	6.70	17.64	2.18	0.60	0.30	0.15	0.04	0.06	17.64 CMS
MIN	0.00	0.00	0.15	0.50	0.93	1.59	0.60	0.36	0.15	0.06	0.02	0.00	0.00 CMS
RUNOFF	0.492	1.326	5.759	5.047	6.363	11.641	3.135	1.274	0.639	0.247	0.076	0.026	36.025 MCM

MOMENTARY PEAK 49.60 CMS, AT 2.00 M (A.D), AT 15.00 HOURS, ON SEP 8, 1980
RUNOFF YIELD 17.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 740.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PA SAK RIVER BASIN

HUAI NAM DUK AT BAN PAK CHONG, PHETCHABUN (S.18)

LOCATION — LAT. 16°-43'-05" N., LONG. 101°-20'-38" E., ON RIGHT BANK AT BAN PAK CHONG, TAMBON PAK CHONG, AMPHOE LOM SAK, PHETCHABUN.

DRAINAGE AREA — 146 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 6.00 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +4.907 M.(A.D.)

GAGE READING FREQUENCY — 3-TIME DAILY READING AT 06.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

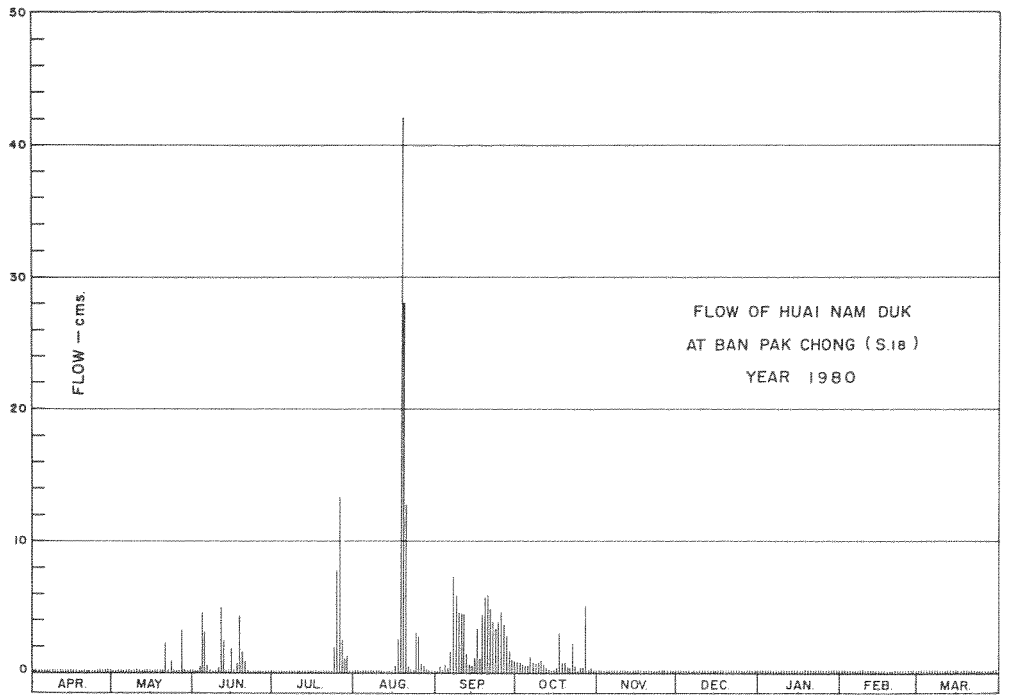
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — STREAM FLOW WAS EFFECTED BY SEDIMENTATION.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.20	0.36	0.30	0.57	0.55	0.70	0.60	0.58	0.51	0.51	0.51	
2	0.20	0.20	0.35	0.30	0.48	0.65	0.70	0.60	0.58	0.51	0.51	0.51	
3	0.20	0.20	0.36	0.30	0.56	0.56	0.69	0.60	0.58	0.51	0.51	0.51	
4	0.20	0.20	0.93	0.30	0.54	0.66	0.65	0.59	0.58	0.51	0.51	0.51	
5	0.20	0.20	0.85	0.30	0.52	0.61	0.63	0.59	0.57	0.51	0.51	0.51	
6	0.20	0.20	0.64	0.28	0.51	0.78	0.72	0.61	0.57	0.51	0.51	0.51	
7	0.20	0.20	0.57	0.28	0.53	1.04	0.68	0.60	0.56	0.51	0.51	0.51	
8	0.20	0.20	0.58	0.48	0.54	1.00	0.68	0.59	0.56	0.51	0.51	0.51	
9	0.20	0.20	0.57	0.45	0.59	0.94	0.70	0.59	0.56	0.51	0.51	0.51	
10	0.20	0.20	0.54	0.45	0.57	0.93	0.71	0.59	0.56	0.51	0.51	0.51	
11	0.20	0.20	0.95	0.54	0.46	0.93	0.66	0.59	0.55	0.51	0.51	0.51	
12	0.20	0.20	0.90	0.46	0.45	0.77	0.64	0.59	0.55	0.51	0.51	0.51	
13	0.20	0.20	0.32	0.47	0.47	0.68	0.61	0.59	0.55	0.51	0.51	0.51	
14	0.20	0.20	0.52	0.48	0.51	0.66	0.61	0.59	0.55	0.51	0.51	0.51	
15	0.20	0.20	0.78	0.48	0.56	0.74	0.60	0.59	0.55	0.51	0.51	0.51	
16	0.20	0.20	0.35	0.48	0.61	0.88	0.64	0.59	0.55	0.51	0.51	0.51	
17	0.20	0.20	0.34	0.47	0.83	0.71	0.86	0.59	0.54	0.51	0.51	0.51	
18	0.20	0.20	0.92	0.46	0.63	0.94	0.69	0.59	0.54	0.51	0.51	0.51	
19	0.20	0.20	0.76	0.48	1.70	0.98	0.69	0.59	0.54	0.51	0.51	0.51	
20	0.20	0.32	0.67	0.52	1.20	0.99	0.67	0.59	0.54	0.51	0.51	0.51	
21	0.20	0.81	0.51	0.55	0.66	0.93	0.61	0.59	0.54	0.51	0.51	0.51	
22	0.20	0.28	0.45	0.46	0.62	0.90	0.81	0.59	0.54	0.51	0.51	0.51	
23	0.20	0.69	0.58	0.56	0.58	0.88	0.65	0.59	0.53	0.51	0.51	0.51	
24	0.20	0.40	0.60	0.55	0.86	0.91	0.60	0.59	0.53	0.51	0.51	0.51	
25	0.20	0.20	0.60	1.09	0.84	0.94	0.63	0.59	0.53	0.51	0.51	0.51	
26	0.20	0.16	0.59	1.22	0.67	0.89	0.63	0.59	0.53	0.51	0.51	0.51	
27	0.20	0.87	0.58	0.86	0.66	0.87	0.96	0.59	0.52	0.51	0.51	0.51	
28	0.20	0.53	0.41	0.72	0.58	0.78	0.59	0.59	0.52	0.51	0.51	0.51	
29	0.20	0.35	0.35	0.74	0.54	0.71	0.63	0.58	0.51	0.51		0.51	
30	0.20	0.37	0.30	0.58	0.53	0.71	0.61	0.58	0.51	0.51		0.52	
31		0.51		0.55	0.53		0.61		0.51	0.51		0.71	
MEAN	0.20	0.30	0.57	0.52	0.64	0.82	0.67	0.59	0.55	0.51	0.51	0.52	
MAX	0.20	0.87	0.95	1.22	1.70	1.04	0.96	0.61	0.58	0.51	0.51	0.71	1.70
MIN	0.20	0.16	0.30	0.28	0.45	0.55	0.59	0.58	0.51	0.51	0.51	0.51	0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.87 M (A.D), AT 10.00 HOURS, ON AUG 19, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)
LEFT BANK ELEVATION 12.32 M (A.D)
RIGHT BANK ELEVATION 8.58 M (A.D), DRAINAGE AREA 146 SQUARE KILOMETERS



D.SCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.15	0.12	0.90	0.20	0.17	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.04	0.55	0.90	0.20	0.17	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.14	0.14	0.83	0.20	0.17	0.00	0.00	0.00	
4	0.00	0.00	4.52	0.00	0.11	0.62	0.55	0.18	0.17	0.00	0.00	0.00	
5	0.00	0.00	2.95	0.00	0.08	0.27	0.41	0.18	0.15	0.00	0.00	0.00	
6	0.00	0.00	0.48	0.00	0.06	1.86	1.14	0.27	0.15	0.00	0.00	0.00	
7	0.00	0.00	0.15	0.00	0.09	7.36	0.76	0.20	0.14	0.00	0.00	0.00	
8	0.00	0.00	0.17	0.04	0.11	6.20	0.76	0.18	0.14	0.00	0.00	0.00	
9	0.00	0.00	0.15	0.02	0.18	4.76	0.90	0.18	0.14	0.00	0.00	0.00	
10	0.00	0.00	0.11	0.02	0.15	4.52	1.02	0.18	0.14	0.00	0.00	0.00	
11	0.00	0.00	5.00	0.11	0.03	4.52	0.62	0.18	0.12	0.00	0.00	0.00	
12	0.00	0.00	3.80	0.03	0.02	1.74	0.48	0.18	0.12	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.03	0.03	0.76	0.27	0.18	0.12	0.00	0.00	0.00	
14	0.00	0.00	0.08	0.04	0.06	0.62	0.27	0.18	0.12	0.00	0.00	0.00	
15	0.00	0.00	1.96	0.04	0.14	1.38	0.20	0.18	0.12	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.04	0.27	3.46	0.48	0.18	0.12	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.03	2.61	1.02	3.12	0.18	0.11	0.00	0.00	0.00	
18	0.00	0.00	4.28	0.03	0.41	4.76	0.83	0.18	0.11	0.00	0.00	0.00	
19	0.00	0.00	1.62	0.04	42.00	5.72	0.83	0.16	0.11	0.00	0.00	0.00	
20	0.00	0.00	0.69	0.08	12.60	5.96	0.69	0.18	0.11	0.00	0.00	0.00	
21	0.00	2.27	0.06	0.12	0.62	4.52	0.27	0.16	0.11	0.00	0.00	0.00	
22	0.00	0.00	0.02	0.03	0.34	3.80	2.27	0.18	0.11	0.00	0.00	0.00	
23	0.00	0.83	0.17	0.14	0.17	3.46	0.55	0.18	0.09	0.00	0.00	0.00	
24	0.00	0.00	0.20	0.12	3.12	4.04	0.20	0.18	0.09	0.00	0.00	0.00	
25	0.00	0.00	0.20	8.81	2.78	4.76	0.41	0.18	0.09	0.00	0.00	0.00	
26	0.00	0.00	0.18	13.44	0.69	3.63	0.41	0.18	0.09	0.00	0.00	0.00	
27	0.00	3.29	0.17	3.12	0.62	3.29	5.24	0.18	0.08	0.00	0.00	0.00	
28	0.00	0.09	0.00	1.14	0.17	1.86	0.18	0.18	0.08	0.00	0.00	0.00	
29	0.00	0.00	0.00	1.38	0.11	1.02	0.41	0.17	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.17	0.09	1.02	0.27	0.17	0.00	0.00		0.08	
31		0.06		0.12	0.09		0.27		0.00	0.00		1.02	
TOTAL	0.00	6.54	26.86	29.14	68.08	87.74	26.44	5.55	3.44	0.00	0.00	1.10	254.89 CMSDAY
MEAN	0.00	0.21	0.90	0.94	2.20	2.92	0.85	0.18	0.11	0.00	0.00	0.04	0.70 CMS
MAX	0.00	3.29	5.00	13.44	42.00	7.36	5.24	0.27	0.17	0.00	0.00	1.02	42.00 CMS
MIN	0.00	0.00	0.00	0.00	0.02	0.12	0.18	0.17	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.565	2.321	2.518	5.882	7.581	2.284	0.480	0.297	0.000	0.000	0.095	22.022 MCM

MOMENTARY PEAK 57.12 CMS, AT 1.87 M (A.D), AT 10.00 HOURS, ON AUG 19, 1980
RUNOFF YIELD 4.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 391.23 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SALAWIN RIVER BASIN

HUAI MAE LAMAO AT BAN KO KO, TAK (Sw.1)

LOCATION — LAT. 16°-54'-56" N., LONG. 98°-37'-57" E., ON RIGHT BANK AT BAN KO KO ABOUT 14 KILOMETERS SOUTH-EAST OF AMPHOE MAE KAMAT BETWEEN DOI KALA AND DOI MAE PHASA, AMPHOE MAE SOT, TAK.

DRAINAGE AREA — 1,426 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ALONG THE MEASURING LINE.

ELEVATION — +5.597 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966-1969

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966-1969

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

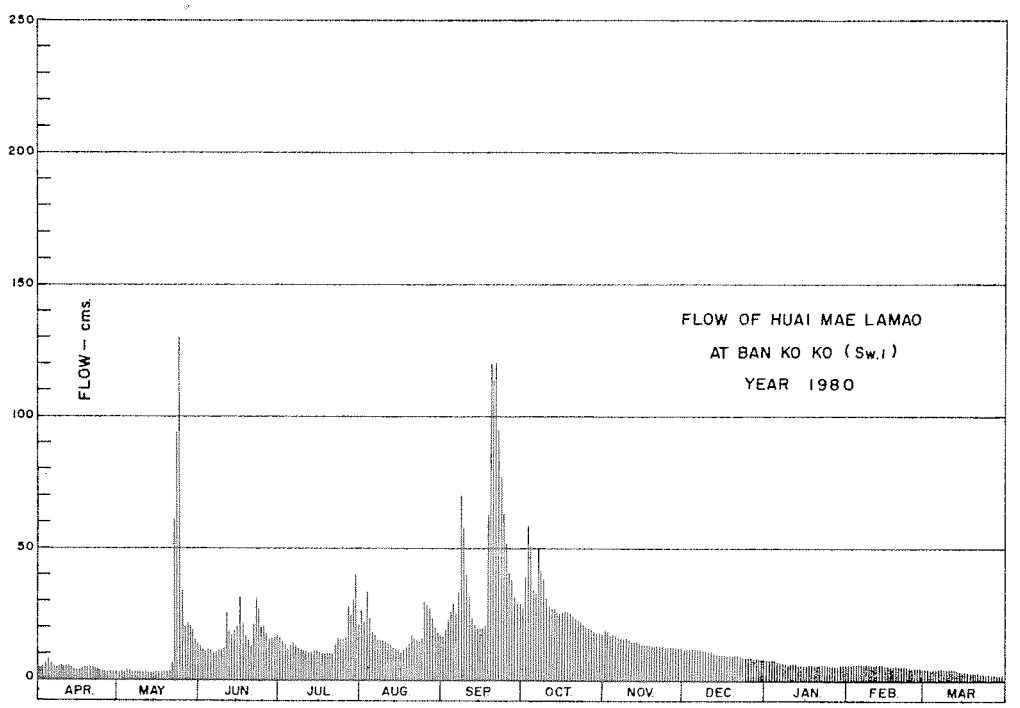
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 150 DISCHARGE MEASUREMENTS MADE IN 1968.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.27	0.68	0.78	1.14	0.85	1.15	0.91	0.63	0.48	0.39	0.31	
2	0.37	0.27	0.65	0.73	1.01	0.94	1.47	0.86	0.62	0.47	0.39	0.30	
3	0.44	0.27	0.61	0.69	1.29	1.05	1.92	0.84	0.61	0.47	0.39	0.30	
4	0.52	0.26	0.65	0.65	0.93	1.15	1.65	0.83	0.60	0.46	0.39	0.29	
5	0.42	0.26	0.63	0.73	0.87	1.18	1.32	0.83	0.60	0.46	0.39	0.29	
6	0.38	0.26	0.62	0.74	0.87	1.08	1.26	0.82	0.59	0.45	0.38	0.29	
7	0.38	0.26	0.60	0.67	0.83	1.35	1.27	0.81	0.59	0.45	0.38	0.29	
8	0.39	0.25	0.60	0.65	0.78	2.13	1.70	0.80	0.58	0.45	0.38	0.30	
9	0.38	0.25	0.61	0.62	0.75	1.60	1.46	0.79	0.57	0.44	0.37	0.30	
10	0.35	0.24	0.64	0.61	0.75	1.30	1.42	0.76	0.57	0.44	0.37	0.30	
11	0.34	0.24	1.11	0.60	0.71	1.09	1.24	0.75	0.56	0.43	0.37	0.29	
12	0.33	0.24	0.87	0.57	0.70	1.00	1.17	0.74	0.55	0.43	0.37	0.29	
13	0.33	0.24	0.82	0.58	0.66	0.95	1.15	0.73	0.54	0.43	0.36	0.28	
14	0.32	0.24	0.89	0.60	0.63	0.95	1.14	0.73	0.54	0.42	0.36	0.26	
15	0.31	0.24	0.97	0.63	0.62	0.93	1.10	0.71	0.53	0.42	0.36	0.25	
16	0.30	0.24	1.24	0.62	0.62	0.94	1.08	0.71	0.53	0.41	0.35	0.25	
17	0.34	0.24	0.97	0.60	0.64	0.97	1.10	0.70	0.52	0.41	0.35	0.25	
18	0.38	0.24	0.83	0.58	0.69	2.25	1.11	0.70	0.52	0.40	0.35	0.24	
19	0.37	0.25	0.76	0.57	0.71	3.13	1.11	0.70	0.51	0.40	0.35	0.24	
20	0.36	0.27	0.69	0.57	0.83	3.03	1.08	0.70	0.51	0.40	0.34	0.23	
21	0.35	0.51	1.04	0.57	0.81	3.13	1.04	0.70	0.51	0.40	0.34	0.23	
22	0.34	2.03	1.27	0.76	0.77	2.41	1.00	0.69	0.50	0.40	0.34	0.22	
23	0.32	3.29	1.05	0.80	0.75	2.23	1.00	0.68	0.50	0.40	0.34	0.21	
24	0.30	1.73	0.93	0.78	0.85	1.96	0.97	0.68	0.50	0.40	0.33	0.21	
25	0.29	1.16	0.97	0.83	1.21	1.66	0.94	0.67	0.50	0.40	0.32	0.21	
26	0.29	0.94	0.82	0.85	1.17	1.46	0.91	0.67	0.50	0.40	0.32	0.20	
27	0.29	1.01	0.80	1.16	1.14	1.41	0.90	0.66	0.49	0.40	0.31	0.20	
28	0.28	0.96	0.78	1.08	0.99	1.25	0.88	0.66	0.49	0.39	0.31	0.20	
29	0.28	0.86	0.80	1.48	0.95	1.19	0.87	0.65	0.48	0.39		0.20	
30	0.27	0.81	0.82	1.14	0.90	1.19	0.86	0.64	0.48	0.39		0.19	
31		0.71		0.98	0.82		0.85		0.48	0.39		0.19	
MEAN	0.35	0.61	0.82	0.75	0.85	1.53	1.17	0.74	0.54	0.42	0.36	0.25	
MAX	0.52	3.29	1.27	1.48	1.29	3.13	1.92	0.91	0.63	0.48	0.39	0.31	3.29
MIN	0.27	0.24	0.60	0.57	0.62	0.85	0.85	0.64	0.48	0.39	0.31	0.19	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.41 M (A.D), AT 9.00 HOURS, ON SEP 21, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.01 M (A.D)
LEFT BANK ELEVATION 5.37 M (A.D)
RIGHT BANK ELEVATION 5.00 M (A.D), DRAINAGE AREA 1426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.20	3.52	13.04	15.84	27.52	17.80	27.90	19.50	11.64	7.76	5.80	4.20	
2	5.40	3.52	12.20	14.44	22.58	20.40	40.40	18.08	11.36	7.54	5.80	4.00	
3	6.88	3.52	11.08	13.32	33.22	24.10	59.72	17.52	11.08	7.54	5.80	4.00	
4	8.72	3.36	12.20	12.20	20.10	27.90	47.60	17.24	10.80	7.32	5.80	3.84	
5	6.44	3.36	11.64	14.44	18.36	29.04	34.40	17.24	10.80	7.32	5.80	3.84	
6	5.60	3.36	11.36	14.72	18.36	25.24	32.08	16.96	10.54	7.10	5.60	3.84	
7	5.60	3.36	10.80	12.76	17.24	35.60	32.46	16.68	10.54	7.10	5.60	3.84	
8	5.80	3.20	10.80	12.20	15.84	69.38	49.60	16.40	10.28	7.10	5.60	4.00	
9	5.60	3.20	11.08	11.36	15.00	45.60	40.00	16.12	10.02	6.88	5.40	4.00	
10	5.00	3.04	11.92	11.08	15.00	33.60	38.40	15.28	10.02	6.88	5.40	4.00	
11	4.80	3.04	26.38	10.80	13.88	25.62	31.32	15.00	9.76	6.66	5.40	3.84	
12	4.60	3.04	18.36	10.02	13.60	22.20	28.66	14.72	9.50	6.66	5.40	3.84	
13	4.60	3.04	16.96	10.28	12.48	20.70	27.90	14.44	9.24	6.66	5.20	3.68	
14	4.40	3.04	18.92	10.80	11.64	20.70	27.52	14.44	9.24	6.44	5.20	3.36	
15	4.20	3.04	21.30	11.64	11.36	20.10	26.00	13.88	8.98	6.44	5.20	3.20	
16	4.00	3.04	31.32	11.36	11.36	20.40	25.24	13.88	8.98	6.22	5.00	3.20	
17	4.80	3.04	21.30	10.80	11.92	21.30	26.00	13.60	8.72	6.22	5.00	3.20	
18	5.60	3.04	17.24	10.28	13.32	74.90	26.38	13.60	8.72	6.00	5.00	3.04	
19	5.40	3.20	15.28	10.02	13.86	120.80	26.38	13.60	8.46	6.00	5.00	3.04	
20	5.20	3.52	13.32	10.02	17.24	114.80	25.24	13.60	8.46	6.00	4.80	2.88	
21	5.00	8.46	23.72	10.02	16.68	120.80	23.72	13.60	8.46	6.00	4.80	2.88	
22	4.80	64.78	32.46	15.28	15.56	82.50	22.20	13.32	8.20	6.00	4.80	2.72	
23	4.40	130.40	24.10	16.40	15.00	73.98	22.20	13.04	8.20	6.00	4.80	2.56	
24	4.00	80.98	20.10	15.84	17.80	61.56	21.30	13.04	8.20	6.00	4.60	2.56	
25	3.84	28.28	21.30	17.24	30.18	48.00	20.40	12.76	8.20	6.00	4.40	2.56	
26	3.84	20.40	16.96	17.80	28.66	40.00	19.50	12.76	8.20	6.00	4.40	2.40	
27	3.84	22.58	16.40	28.28	27.52	38.00	19.20	12.48	7.98	6.00	4.20	2.40	
28	3.68	21.00	15.84	25.24	21.90	31.70	18.64	12.48	7.98	5.80	4.20	2.40	
29	3.68	18.08	16.40	40.80	20.70	29.42	18.36	12.20	7.76	5.80		2.40	
30	3.52	16.68	16.96	27.52	19.20	29.42	18.08	11.92	7.76	5.80		2.25	
31		13.88		21.60	16.96		17.80		7.76	5.80		2.25	
TOTAL	148.44	460.00	520.74	474.40	564.06	1345.56	894.60	439.38	285.84	201.04	144.00	100.22	5578.27 CMSDAY
MEAN	4.95	14.84	17.36	15.30	18.20	44.85	28.86	14.65	9.22	6.49	5.14	3.23	15.28 CMS
MAX	8.72	130.40	32.46	40.80	33.22	120.80	59.72	19.50	11.64	7.76	5.80	4.20	130.40 CMS
MIN	3.52	3.04	10.80	10.02	11.36	17.80	17.80	11.92	7.76	5.80	4.20	2 25	2.25 CMS
RUNOFF	12.825	39.744	44.992	40.988	48.735	116.256	77.293	37.962	24.697	17.370	12.442	8.659	481.962 MCM

MOMENTARY PEAK 137.60 CMS, AT 3.41 M (A.D), AT 9.00 HOURS, ON SEP 21, 1980

RUNOFF YIELD 10.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 96.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SALAWIN RIVER BASIN

HUAI MAE LAMAO AT BAN MAE LAMAO, TAK (Sw.6)

LOCATION — LAT. 16°-45'-44" N., LONG. 98°-45'-14" E., ON LEFT BANK DOWNSTREAM SIDE OF HUAI MAE LAMAO BRIDGE AT BAN MAE LAMAO, AMPHOE MAE SOT, TAK.

DRAINAGE AREA — 1,038 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 6.25 METERS FROM AUTOMATIC GAGE BUILDING.

ELEVATION — +10.386 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE BY SOME SCOURING, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

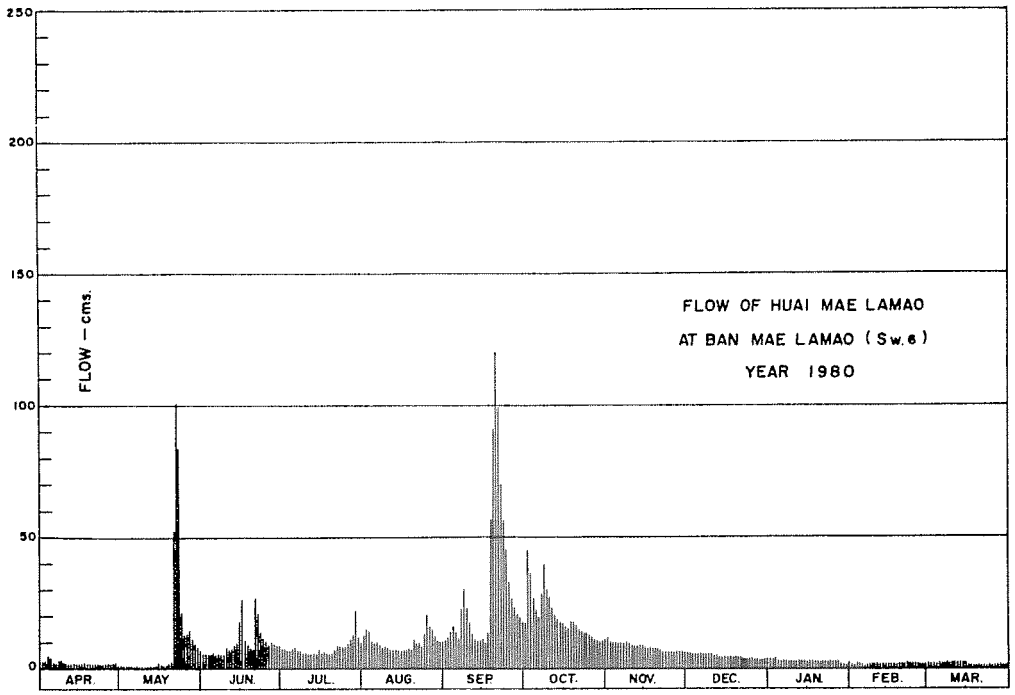
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 180 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT DURING APR.1-2, 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.78	0.68	0.99	1.08	1.33	1.25	1.47	1.26	0.99	0.85	0.79	0.72	
2	0.84	0.68	0.98	1.05	1.36	1.26	2.26	1.19	0.98	0.85	0.79	0.72	
3	0.91	0.67	0.98	1.01	1.35	1.36	2.04	1.17	0.98	0.85	0.80	0.71	
4	0.86	0.67	0.97	1.04	1.19	1.41	1.78	1.17	0.97	0.84	0.80	0.71	
5	0.82	0.66	0.96	1.08	1.15	1.35	1.63	1.15	0.96	0.84	0.78	0.70	
6	0.79	0.66	0.95	1.05	1.15	1.27	1.56	1.15	0.96	0.84	0.77	0.70	
7	0.81	0.65	0.96	1.01	1.11	1.64	1.86	1.15	0.96	0.83	0.77	0.78	
8	0.81	0.65	0.95	1.00	1.08	1.91	2.13	1.15	0.96	0.83	0.78	0.79	
9	0.80	0.66	0.97	0.98	1.06	1.54	1.86	1.16	0.95	0.83	0.79	0.79	
10	0.77	0.66	1.08	0.98	1.05	1.40	1.75	1.13	0.95	0.82	0.79	0.78	
11	0.76	0.66	1.04	0.96	1.04	1.31	1.63	1.11	0.94	0.82	0.79	0.75	
12	0.75	0.66	1.08	0.97	1.03	1.26	1.55	1.10	0.94	0.81	0.78	0.73	
13	0.75	0.65	1.18	0.96	1.02	1.23	1.50	1.10	0.94	0.81	0.78	0.72	
14	0.74	0.65	1.16	0.99	1.01	1.21	1.49	1.10	0.93	0.83	0.76	0.71	
15	0.74	0.73	1.46	1.00	1.01	1.20	1.44	1.09	0.93	0.84	0.76	0.70	
16	0.74	0.68	1.74	0.98	1.01	1.18	1.45	1.08	0.92	0.84	0.75	0.69	
17	0.81	0.67	1.23	0.97	1.06	1.41	1.43	1.06	0.92	0.84	0.74	0.69	
18	0.79	0.67	1.13	0.96	1.04	2.40	1.48	1.06	0.91	0.83	0.74	0.68	
19	0.76	0.70	1.06	0.96	1.05	3.36	1.48	1.05	0.91	0.82	0.73	0.67	
20	0.74	0.76	1.05	0.95	1.20	3.78	1.44	1.05	0.91	0.82	0.73	0.67	
21	0.72	2.04	1.77	1.07	1.12	3.29	1.39	1.04	0.90	0.82	0.74	0.66	
22	0.72	3.45	1.63	1.11	1.10	2.65	1.36	1.04	0.89	0.82	0.74	0.66	
23	0.71	2.99	1.34	1.08	1.06	2.51	1.33	1.04	0.89	0.82	0.73	0.66	
24	0.71	1.62	1.27	1.05	1.26	2.14	1.32	1.03	0.88	0.82	0.73	0.65	
25	0.71	1.29	1.20	1.08	1.56	1.90	1.28	1.02	0.88	0.81	0.73	0.65	
26	0.71	1.30	1.13	1.18	1.43	1.74	1.26	1.01	0.88	0.81	0.72	0.65	
27	0.70	1.34	1.16	1.27	1.36	1.65	1.24	1.01	0.88	0.80	0.72	0.65	
28	0.70	1.19	1.17	1.34	1.24	1.54	1.23	1.00	0.88	0.79	0.72	0.65	
29	0.70	1.12	1.13	1.61	1.17	1.56	1.22	1.00	0.86	0.79		0.65	
30	0.69	1.07	1.11	1.27	1.15	1.49	1.20	1.00	0.86	0.79		0.65	
31		1.02		1.17	1.17		1.21		0.86	0.80		0.66	
MEAN	0.76	1.03	1.16	1.07	1.16	1.77	1.52	1.09	0.92	0.82	0.76	0.70	
MAX	0.91	3.45	1.77	1.61	1.56	3.78	2.26	1.26	0.99	0.85	0.80	0.79	3.78
MIN	0.69	0.65	0.95	0.95	1.01	1.18	1.20	1.00	0.86	0.79	0.72	0.65	0.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.92 M (A.D.), AT 23.00 HOURS, ON MAY 21, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED 0.07 M (A.D.)
LEFT BANK ELEVATION 15.00 M (A.D.)
RIGHT BANK ELEVATION 10.38 M (A.D.), DRAINAGE AREA 1038 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.80	1.80	6.80	8.60	14.25	12.25	18.10	12.50	6.80	4.00	2.90	2.20	
2	3.80	1.80	6.60	8.00	15.00	12.50	45.40	10.80	6.60	4.00	2.90	2.20	
3	5.20	1.70	6.60	7.20	14.75	15.00	36.60	10.40	6.60	4.00	3.00	2.10	
4	4.20	1.70	6.40	7.80	10.80	16.30	27.40	10.40	6.40	3.80	3.00	2.10	
5	3.40	1.60	6.20	8.60	10.00	14.75	22.90	10.00	6.20	3.80	2.80	2.00	
6	2.90	1.60	6.00	8.00	10.00	12.75	20.80	10.00	6.20	3.80	2.70	2.00	
7	3.20	1.50	6.20	7.20	9.20	23.20	29.80	10.00	6.20	3.60	2.70	2.80	
8	3.20	1.50	6.00	7.00	8.60	31.40	40.20	10.00	6.20	3.60	2.80	2.90	
9	3.00	1.60	6.40	6.60	8.20	20.20	29.80	10.20	6.00	3.60	2.90	2.90	
10	2.70	1.60	8.60	6.60	8.00	16.00	26.50	9.60	6.00	3.40	2.90	2.80	
11	2.60	1.60	7.80	6.20	7.80	13.75	22.90	9.20	5.80	3.40	2.90	2.50	
12	2.50	1.60	8.60	6.40	7.60	12.50	20.50	9.00	5.80	3.20	2.80	2.30	
13	2.50	1.50	10.60	6.20	7.40	11.75	19.00	9.00	5.80	3.20	2.80	2.20	
14	2.40	1.50	10.20	6.80	7.20	11.25	18.70	9.00	5.60	3.60	2.60	2.10	
15	2.40	2.30	17.80	7.00	7.20	11.00	17.20	8.80	5.60	3.80	2.60	2.00	
16	2.40	1.80	26.20	6.60	7.20	10.60	17.50	8.60	5.40	3.80	2.80	1.90	
17	3.20	1.70	11.75	6.40	8.20	16.30	16.90	8.20	5.40	3.80	2.40	1.90	
18	2.90	1.70	9.60	6.20	7.80	51.00	18.40	8.20	5.20	3.60	2.40	1.80	
19	2.60	2.00	8.20	6.20	8.00	97.00	18.40	8.00	5.20	3.40	2.30	1.70	
20	2.40	2.60	8.00	6.00	11.00	120.80	17.20	8.00	5.20	3.40	2.30	1.70	
21	2.20	36.60	27.10	8.40	9.40	93.50	15.75	7.80	5.00	3.40	2.40	1.60	
22	2.20	101.50	22.90	9.20	9.00	61.50	15.00	7.80	4.80	3.40	2.40	1.60	
23	2.10	78.50	14.50	8.60	8.20	55.40	14.25	7.80	4.80	3.40	2.30	1.60	
24	2.10	22.60	12.75	8.00	12.50	40.60	14.00	7.60	4.60	3.40	2.30	1.50	
25	2.10	13.25	11.00	8.60	20.80	31.00	13.00	7.40	4.60	3.20	2.30	1.50	
26	2.10	13.50	9.60	10.60	16.90	26.20	12.50	7.20	4.60	3.20	2.20	1.50	
27	2.00	14.50	10.20	12.75	15.00	23.50	12.00	7.20	4.60	3.00	2.20	1.50	
28	2.00	10.80	10.40	14.50	12.00	20.20	11.75	7.00	4.60	2.90	2.20	1.50	
29	2.00	9.40	9.60	22.30	10.40	20.80	11.50	7.00	4.20	2.90		1.50	
30	1.90	8.40	9.20	12.75	10.00	18.70	11.00	7.00	4.20	2.90		1.50	
31		7.40		10.40	10.40		11.25		4.20	3.00		1.60	
TOTAL	81.00	351.15	321.80	265.70	322.80	921.70	626.20	263.70	168.40	107.50	72.50	61.00	3563.45 CMSDAY
MEAN	2.70	11.33	10.73	8.57	10.41	30.72	20.20	8.79	5.43	3.47	2.59	1.97	9.76 CMS
MAX	5.20	101.50	27.10	22.30	20.80	120.80	45.40	12.50	6.80	4.00	3.00	2.90	120.80 CMS
MIN	1.90	1.50	6.00	6.00	7.20	10.60	11.00	7.00	4.20	2.90	2.20	1.50	1.50 CMS
RUNOFF	6.998	30.339	27.803	22.956	27.890	79.635	54.104	22.784	14.550	9.288	6.264	5.270	307.882 MCM

MOMENTARY PEAK 191.40 CMS, AT 4.92 M (A.D), AT 23.00 HOURS, ON MAY 21, 1980

RUNOFF YIELD 9.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 184.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KOK RIVER BASIN

MAE KOK RIVER AT CHIANG RAI, CHIANG RAI. (G.2A)

LOCATION — LAT. 19°-55'-14" N., LONG. 99°-51'-05" E., ON RIGHT BANK ABOUT 80 METERS DOWNSTREAM FROM THE BRIDGE OF CHIANG RAI-MAE CHAN HIGHWAY, AMPHOE MUANG, CHIANG RAI.

DRAINAGE AREA — 6,063 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +389.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +392.602 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1958 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1958-1960, 1967-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1958-1960, 1967-1971

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

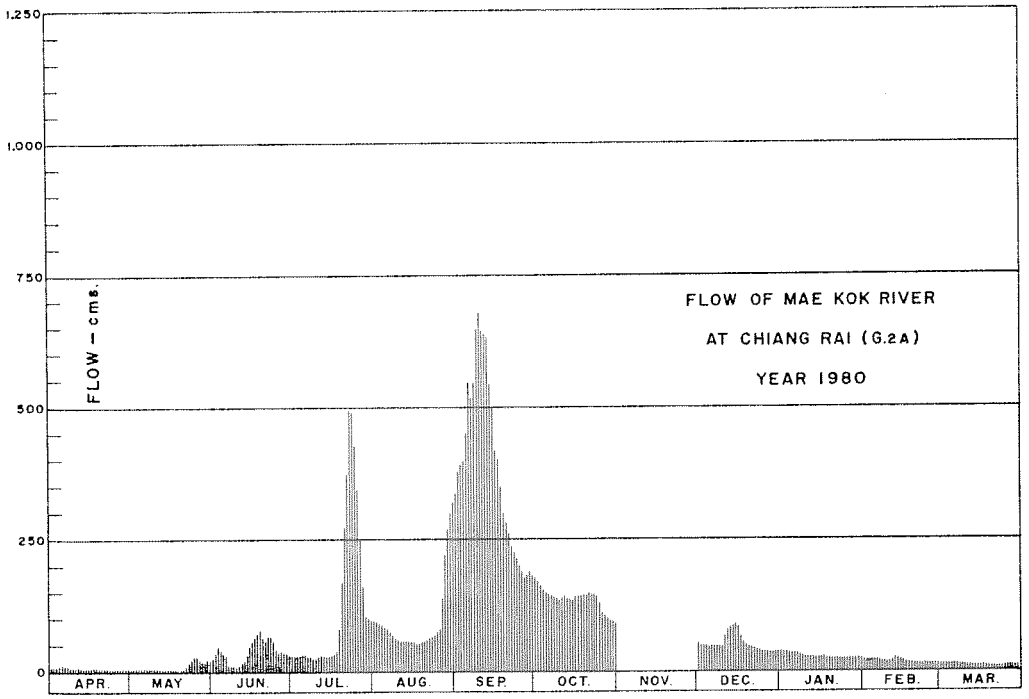
GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 95 DISCHARGE MEASUREMENTS MADE IN 1971.

REMARKS — NO RECORDS DURING NOV.1-DEC.1, 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	390.40	390.26	390.61	390.69	391.14	391.99	391.49	*******	*******	390.75	390.60	390.49	
2	390.40	390.26	390.71	390.69	391.13	392.11	391.47	*******	390.88	390.75	390.60	390.48	
3	390.43	390.27	390.78	390.68	391.12	392.14	391.45	*******	390.87	390.74	390.61	390.48	
4	390.45	390.27	390.77	390.68	391.10	392.16	391.43	*******	390.85	390.74	390.61	390.48	
5	390.47	390.34	390.72	390.68	391.07	392.28	391.42	*******	390.85	390.74	390.58	390.47	
6	390.45	390.39	390.66	390.68	391.06	392.53	391.38	*******	390.84	390.75	390.58	390.47	
7	390.43	390.38	390.56	390.65	391.03	392.46	391.36	*******	390.84	390.73	390.58	390.47	
8	390.40	390.37	390.49	390.64	390.97	392.49	391.34	*******	390.84	390.69	390.56	390.46	
9	390.40	390.34	390.44	390.63	390.94	392.71	391.34	*******	390.84	390.68	390.56	390.46	
10	390.40	390.32	390.46	390.63	390.93	392.83	391.33	*******	390.85	390.68	390.55	390.45	
11	390.39	390.31	390.50	390.67	390.91	392.77	391.34	*******	390.97	390.67	390.55	390.45	
12	390.38	390.29	390.54	390.68	390.91	392.75	391.34	*******	391.00	390.66	390.62	390.44	
13	390.37	390.27	390.56	390.67	390.91	392.73	391.32	*******	391.01	390.66	390.64	390.44	
14	390.36	390.25	390.61	390.66	390.91	392.47	391.32	*******	391.03	390.67	390.66	390.44	
15	390.36	390.24	390.79	390.68	390.90	392.32	391.32	*******	391.05	390.67	390.60	390.44	
16	390.39	390.24	390.91	390.69	390.89	392.23	391.34	*******	391.02	390.67	390.58	390.44	
17	390.40	390.23	390.93	390.70	390.88	392.17	391.34	*******	390.95	390.66	390.57	390.43	
18	390.40	390.23	390.99	390.71	390.88	392.00	391.35	*******	390.90	390.65	390.55	390.43	
19	390.40	390.22	391.03	391.05	390.90	391.86	391.35	*******	390.87	390.65	390.55	390.42	
20	390.39	390.26	390.93	391.43	390.91	391.83	391.36	*******	390.83	390.65	390.54	390.41	
21	390.36	390.38	390.89	391.73	390.93	391.77	391.37	*******	390.81	390.64	390.53	390.41	
22	390.33	390.45	390.96	392.07	390.94	391.70	391.36	*******	390.80	390.64	390.52	390.41	
23	390.32	390.54	390.98	392.40	390.95	391.65	391.36	*******	390.79	390.64	390.52	390.41	
24	390.32	390.63	390.91	392.39	390.97	391.62	391.34	*******	390.79	390.63	390.52	390.41	
25	390.31	390.64	390.76	392.24	390.99	391.57	391.28	*******	390.78	390.62	390.52	390.40	
26	390.30	390.65	390.74	392.00	391.05	391.53	391.22	*******	390.76	390.62	390.51	390.40	
27	390.28	390.61	390.75	391.68	391.28	391.49	391.18	*******	390.75	390.62	390.50	390.40	
28	390.28	390.57	390.74	391.24	391.63	391.51	391.16	*******	390.74	390.62	390.49	390.39	
29	390.26	390.54	390.72	391.18	391.81	391.53	391.15	*******	390.75	390.63		390.39	
30	390.26	390.62	390.71	391.17	391.89	391.50	391.14	*******	390.75	390.63		390.39	
31		390.57		391.15	391.94		391.12		390.75	390.63		390.39	
MEAN	390.37	390.38	390.74	391.09	391.09	392.09	391.32	*******	*******	390.67	390.56	390.43	
MAX	390.47	390.65	391.03	392.40	391.94	392.83	391.49	*******	391.05	390.75	390.66	390.49	392.83
MIN	390.26	390.22	390.44	390.63	390.88	391.49	391.12	*******	*******	390.62	390.49	390.39	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 392.86 M (MSL), AT 12.00 HOURS, ON SEP 10, 1980
ZERO GAGE AT BOTTOM ELEVATION 389.00 M (MSL), RIVER BED 388.59 M (MSL)
LEFT BANK ELEVATION 394.16 M (MSL)
RIGHT BANK ELEVATION 393.22 M (MSL), DRAINAGE AREA 6063 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.00	1.80	23.00	31.00	97.60	338.50	179.40	*******	*******	38.00	22.00	12.85	
2	7.00	1.80	33.20	31.00	95.70	381.60	174.20	*******	54.80	38.00	22.00	12.20	
3	8.95	2.10	41.60	30.00	93.80	392.40	168.99	*******	53.45	36.80	23.00	12.20	
4	10.26	2.10	40.40	30.00	90.00	399.60	163.80	*******	50.75	36.80	23.00	12.20	
5	11.55	4.60	34.40	30.00	84.89	444.40	161.20	*******	50.75	36.80	20.30	11.55	
6	10.25	6.60	28.00	30.00	83.20	545.30	150.99	*******	49.40	38.00	20.30	11.55	
7	8.95	5.20	18.60	27.00	78.10	516.60	146.00	*******	49.40	35.60	20.30	11.55	
8	7.00	5.80	12.85	26.00	68.35	428.91	141.00	*******	49.40	31.00	18.60	10.90	
9	7.00	4.60	9.60	25.00	63.69	622.50	141.00	*******	49.40	30.00	18.60	10.90	
10	7.00	3.80	10.90	25.00	62.15	677.09	138.49	*******	50.75	30.00	17.75	10.25	
11	6.60	3.40	13.50	29.00	59.05	649.49	141.00	*******	68.35	29.00	17.75	10.25	
12	6.20	2.70	16.90	30.00	59.05	648.51	141.00	*******	73.00	28.00	24.00	9.60	
13	5.80	2.10	18.60	29.00	59.05	631.51	135.99	*******	74.69	28.00	26.00	9.60	
14	5.40	1.50	23.00	28.00	59.05	520.70	135.99	*******	78.10	29.00	28.00	9.60	
15	5.40	1.20	42.80	30.00	57.50	459.99	135.99	*******	81.50	29.00	22.00	9.60	
16	6.60	1.20	59.05	31.00	56.15	425.41	141.00	*******	76.39	29.00	20.30	9.60	
17	7.00	0.90	62.15	32.00	54.80	403.21	141.00	*******	65.25	28.00	19.45	8.95	
18	7.00	0.90	71.45	33.20	54.80	342.00	143.50	*******	57.50	27.00	17.75	8.95	
19	7.00	0.60	78.10	81.50	57.50	293.81	143.50	*******	53.45	27.00	17.75	8.30	
20	6.60	1.80	62.15	163.80	59.05	283.90	146.00	*******	48.05	27.00	16.90	7.65	
21	5.40	6.20	56.15	250.91	62.15	264.10	148.51	*******	45.35	26.00	16.05	7.65	
22	4.20	12.25	66.80	357.19	63.69	241.00	146.00	*******	44.00	26.00	15.20	7.65	
23	3.80	16.90	69.90	492.00	65.25	226.00	146.00	*******	42.80	26.00	15.20	7.65	
24	3.80	25.00	59.05	488.00	68.35	217.01	141.00	*******	42.80	25.00	15.20	7.65	
25	3.40	26.00	39.20	429.21	71.45	202.29	126.60	*******	41.60	24.00	15.20	7.00	
26	3.00	27.00	36.80	342.00	81.50	190.69	113.40	*******	39.20	24.00	14.35	7.00	
27	2.40	23.00	38.00	235.01	126.60	179.40	105.21	*******	38.00	24.00	13.50	7.00	
28	2.40	19.45	36.80	117.81	219.99	184.89	101.40	*******	36.80	24.00	12.85	6.60	
29	1.80	16.90	34.40	105.21	277.31	190.69	99.50	*******	38.00	25.00		6.60	
30	1.80	24.00	33.20	103.30	303.70	182.00	97.60	*******	38.00	25.00		6.60	
31		19.45		99.50	320.99		93.80		38.00	25.00		6.60	
TOTAL	180.55	269.85	1170.55	3802.64	3054.46	*******	4289.06	*******	*******	906.00	533.30	286.25	******** CMSDAY
MEAN	6.02	8.70	39.02	122.67	98.53	385.85	138.36	*******	*******	29.23	19.05	9.23	******* CMS
MAX	11.55	27.00	78.10	492.00	320.99	677.09	179.40	*******	81.50	38.00	28.00	12.85	677.09 CMS
MIN	1.80	0.60	9.60	25.00	54.80	179.40	93.80	*******	*******	24.00	12.85	6.60	******* CMS
RUNOFF	15.600	23.315	101.135	328.548	263.905	*******	370.575	*******	*******	78.278	46.077	24.732	******** MCM

MOMENTARY PEAK 691.21 CMS, AT 392.86 M (MSL), AT 12.00 HOURS, ON SEP 10, 1980
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 114.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KHONG RIVER BASIN

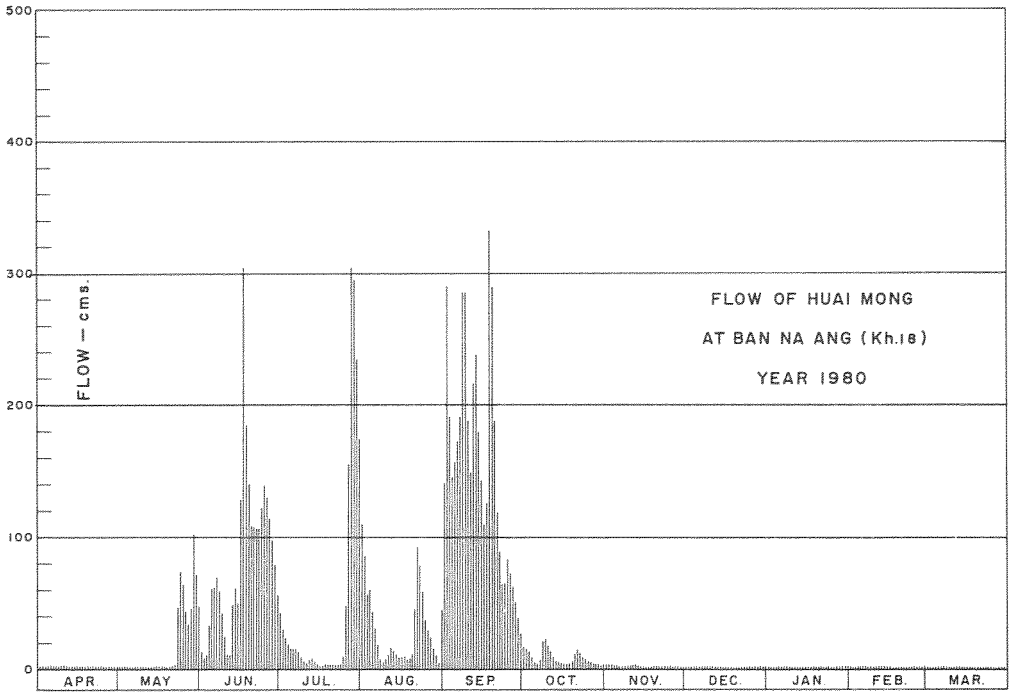
HUAI MONG AT BAN NA ANG, UDON THANI (KH.16)

LOCATION	LAT. 17°-34'-39" N., LONG. 102°-20'-19" E., ON RIGHT BANK ABOUT 300 METERS DOWNSTREAM FROM CONFLUENCE OF HUAI NAM BAN AND HUAI PAK KONG, AMPHOE BAN PHU, UDON THANI.
DRAINAGE AREA	1,307 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+8.826 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1957 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1957-1959, 1965-1966, 1974 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1957-1959, 1965-1966, 1974 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 72 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.79	0.80	3.38	5.13	7.05	6.82	3.50	1.98	1.28	0.97	0.99	0.86	
2	0.83	0.79	2.67	4.58	6.74	7.80	3.45	1.92	1.24	1.01	1.00	0.86	
3	0.84	0.78	3.19	4.13	5.86	7.30	3.29	1.88	1.08	1.04	0.99	0.84	
4	0.84	0.79	5.14	3.77	5.92	7.30	2.79	1.86	1.37	1.04	0.98	1.01	
5	0.83	0.82	6.00	3.54	5.09	7.35	2.45	1.79	1.28	1.09	1.00	0.99	
6	0.81	0.87	6.05	3.44	4.57	7.44	2.30	1.70	1.26	1.06	0.99	0.92	
7	0.79	0.84	6.31	3.49	3.32	7.47	2.57	1.64	1.24	1.07	1.00	0.88	
8	0.78	0.80	5.88	3.36	2.75	7.79	3.89	1.64	1.22	1.09	1.00	0.87	
9	0.80	0.81	5.07	2.92	2.46	7.79	4.22	1.69	1.24	1.07	1.00	0.87	
10	0.80	0.82	4.04	2.57	2.55	7.51	3.83	1.75	1.27	1.08	1.00	0.86	
11	0.80	0.81	2.99	2.46	3.13	7.31	3.22	1.80	1.02	1.13	0.99	0.86	
12	0.81	0.80	3.01	2.73	3.55	7.60	2.87	1.87	0.92	1.33	0.98	0.88	
13	0.82	0.82	5.56	2.81	3.34	7.66	2.62	1.90	0.93	1.22	0.97	0.95	
14	0.81	0.83	5.98	2.44	3.09	7.40	2.32	1.85	0.97	1.18	0.95	0.94	
15	0.80	0.80	5.63	2.28	2.75	7.27	2.23	1.80	0.97	1.20	0.94	0.91	
16	0.82	0.78	7.17	2.02	2.73	7.07	2.23	1.72	0.98	1.14	0.92	0.88	
17	0.84	0.78	7.83	1.78	2.92	7.19	2.24	1.73	0.94	1.04	0.92	0.86	
18	0.86	0.80	7.47	2.01	2.72	7.89	2.00	1.67	0.96	1.04	0.94	0.84	
19	0.84	0.82	7.20	1.90	2.61	7.83	2.13	1.59	1.00	1.04	0.93	0.81	
20	0.82	0.82	7.03	1.86	2.89	7.46	3.19	1.49	1.01	1.17	0.92	0.82	
21	0.81	1.03	7.03	1.81	5.36	7.08	3.42	1.47	1.00	1.22	0.86	0.85	
22	0.80	2.44	7.03	1.87	6.80	6.60	3.19	1.39	1.02	1.18	0.84	0.80	
23	0.79	5.60	7.01	1.96	6.51	6.10	2.80	1.47	1.00	1.15	0.84	0.72	
24	0.79	6.42	7.15	2.11	5.54	6.16	2.60	1.45	1.06	1.00	0.86	0.79	
25	0.80	6.09	7.26	2.92	4.85	6.64	2.43	1.42	1.00	1.06	0.83	0.82	
26	0.80	5.00	7.22	5.27	4.61	6.44	2.18	1.36	1.11	1.02	0.82	0.84	
27	0.80	4.80	7.09	7.39	4.18	6.05	2.10	1.36	1.15	1.01	0.85	0.86	
28	0.81	6.44	6.84	7.83	3.56	5.65	2.07	1.37	1.04	1.01	0.84	0.86	
29	0.83	6.95	6.26	7.81	2.92	5.02	1.96	1.34	1.00	1.00		0.86	
30	0.81	6.38	5.51	7.58	2.42	4.21	1.89	1.31	0.97	1.03		0.86	
31		4.87		7.35	5.12		1.93		0.97	1.00		0.87	
MEAN	0.81	2.33	5.87	3.65	4.13	6.97	2.71	1.64	1.08	1.09	0.93	0.87	
MAX	0.86	6.95	7.83	7.83	7.05	7.89	4.22	1.98	1.37	1.33	1.00	1.01	7.89
MIN	0.78	0.78	2.67	1.78	2.42	4.21	1.89	1.31	0.92	0.97	0.82	0.72	0.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.08 M (A.D), AT 18.00 HOURS, ON SEP 8, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 8.70 M (A.D)
RIGHT BANK ELEVATION 9.50 M (A.D), DRAINAGE AREA 1307 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.40	14.80	40.30	110.50	93.80	16.00	4.00	1.44	0.74	0.78	0.52	
2	0.46	0.38	7.86	30.50	88.72	289.00	15.50	3.70	1.32	0.82	0.80	0.52	
3	0.48	0.36	12.90	23.75	57.82	147.00	13.90	3.50	0.96	0.88	0.78	0.48	
4	0.48	0.38	40.50	18.70	59.44	147.00	8.91	3.40	1.71	0.88	0.76	0.82	
5	0.46	0.44	61.60	16.40	39.50	157.00	6.35	3.06	1.44	0.98	0.80	0.78	
6	0.42	0.54	62.95	15.40	30.35	176.20	5.60	2.70	1.38	0.92	0.78	0.64	
7	0.38	0.48	70.40	15.90	14.20	183.10	7.09	2.52	1.32	0.94	0.80	0.56	
8	0.36	0.40	58.36	14.60	8.55	285.20	20.17	2.52	1.26	0.98	0.80	0.54	
9	0.40	0.42	39.10	10.20	6.40	285.20	25.10	2.67	1.32	0.94	0.80	0.54	
10	0.40	0.44	22.40	7.09	6.95	192.80	19.39	2.90	1.41	0.96	0.80	0.52	
11	0.40	0.42	10.90	6.40	12.30	149.00	13.20	3.10	0.84	1.06	0.78	0.52	
12	0.42	0.40	11.10	8.37	16.50	218.00	9.70	3.45	0.64	1.59	0.76	0.56	
13	0.44	0.44	49.80	9.10	14.40	237.80	7.46	3.60	0.66	1.26	0.74	0.70	
14	0.42	0.46	61.06	6.30	11.90	167.00	5.70	3.35	0.74	1.16	0.70	0.68	
15	0.40	0.40	51.61	5.50	8.55	141.00	5.25	3.10	0.74	1.20	0.68	0.62	
16	0.44	0.36	123.40	4.20	8.37	112.30	5.25	2.78	0.76	1.08	0.64	0.56	
17	0.48	0.36	303.10	3.02	10.20	125.80	5.30	2.82	0.68	0.88	0.64	0.52	
18	0.52	0.40	183.10	4.15	8.28	331.30	4.10	2.61	0.72	0.88	0.68	0.48	
19	0.48	0.44	127.00	3.60	7.38	303.10	4.75	2.37	0.80	0.88	0.66	0.42	
20	0.44	0.44	108.70	3.40	9.90	180.80	12.90	2.07	0.82	1.14	0.64	0.44	
21	0.42	0.86	108.70	3.15	45.12	113.20	15.20	2.01	0.80	1.26	0.52	0.50	
22	0.40	6.30	108.70	3.45	92.50	82.00	12.90	1.77	0.84	1.16	0.48	0.40	
23	0.38	50.80	106.90	3.90	78.40	64.30	9.00	2.01	0.80	1.10	0.48	0.24	
24	0.38	74.80	121.00	4.65	49.30	65.92	7.30	1.95	0.92	0.80	0.52	0.38	
25	0.40	64.03	139.00	10.20	34.90	83.68	6.25	1.86	0.80	0.92	0.46	0.44	
26	0.40	37.70	131.00	43.17	30.96	75.60	5.00	1.68	1.02	0.84	0.44	0.48	
27	0.40	34.00	114.10	165.00	24.50	62.95	4.60	1.68	1.10	0.82	0.50	0.52	
28	0.42	75.60	95.10	303.10	16.60	52.15	4.45	1.71	0.88	0.82	0.48	0.52	
29	0.46	102.50	68.80	293.70	10.20	38.10	3.90	1.62	0.80	0.80		0.52	
30	0.42	73.20	48.55	212.40	6.20	24.95	3.55	1.53	0.74	0.86		0.52	
31		35.26		157.00	40.10		3.75		0.74	0.80		0.54	
TOTAL	12.74	563.41	2462.49	1446.60	958.99	4585.25	287.52	78.04	30.40	30.35	18.70	16.48	10490.95 CMSDAY
MEAN	0.42	18.17	82.08	46.66	30.94	152.84	9.27	2.60	0.98	0.98	0.67	0.53	28.74 CMS
MAX	0.52	102.50	303.10	303.10	110.50	331.30	25.10	4.00	1.71	1.59	0.80	0.82	331.30 CMS
MIN	0.36	0.36	7.86	3.02	6.20	24.95	3.55	1.53	0.64	0.74	0.44	0.24	0.24 CMS
RUNOFF	1.101	48.679	212.759	124.986	82.857	396.165	24.842	6.743	2.627	2.622	1.616	1.424	906.418 MCM

MOMENTARY PEAK 463.00 CMS, AT 8.08 M (A.D), AT 18.00 HOURS, ON SEP 8, 1980

RUNOFF YIELD 21.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 354.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KHONG RIVER BASIN

NAM PHUNG AT BAN TAO NGOI, SAKON NAKHON (KH.21B)

LOCATION — LAT. 16°-59'-39" N., LONG. 104°-10'-39" E., ON LEFT BANK ABOUT 2.7 KILOMETERS DOWNSTREAM FROM KH.21A, BAN TAO NGOI, AMPHOE MUANG, SAKON NAKHON.

DRAINAGE AREA — 641 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +170.60 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 — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

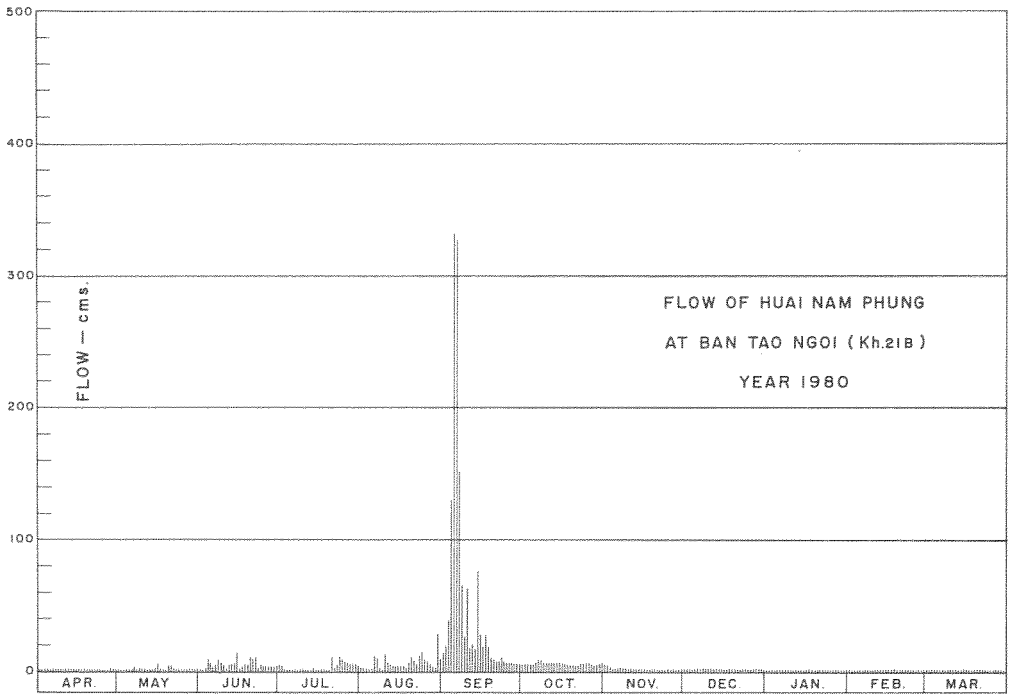
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 168 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	171.25	171.28	171.37	171.53	171.42	171.72	171.58	171.54	171.43	171.39	171.36	171.23	
2	171.24	171.28	171.38	171.50	171.42	171.66	171.59	171.56	171.42	171.40	171.36	171.27	
3	171.24	171.25	171.22	171.22	171.41	172.24	171.58	171.49	171.42	171.40	171.38	171.27	
4	171.25	171.26	171.65	171.23	171.40	172.61	171.58	171.48	171.42	171.40	171.38	171.27	
5	171.20	171.25	171.56	171.19	171.39	175.35	171.58	171.39	171.42	171.40	171.18	171.27	
6	171.21	171.26	171.41	171.24	171.71	175.30	171.57	171.44	171.41	171.37	171.18	171.27	
7	171.23	171.46	171.55	171.22	171.68	173.50	171.65	171.48	171.42	171.36	171.18	171.27	
8	171.25	171.28	171.63	171.23	171.41	172.33	171.65	171.46	171.42	171.37	171.18	171.27	
9	171.27	171.38	171.54	171.26	171.33	171.99	171.58	171.47	171.41	171.38	171.18	171.25	
10	171.31	171.30	171.55	171.37	171.75	172.50	171.60	171.42	171.41	171.37	171.24	171.36	
11	171.36	171.27	171.38	171.22	171.62	171.78	171.60	171.42	171.41	171.37	171.18	171.34	
12	171.25	171.28	171.54	171.20	171.58	171.88	171.59	171.44	171.42	171.37	171.17	171.26	
13	171.25	171.30	171.57	171.17	171.52	171.81	171.59	171.43	171.37	171.38	171.17	171.28	
14	171.19	171.30	171.54	171.43	171.49	172.67	171.58	171.40	171.39	171.42	171.17	171.28	
15	171.19	171.35	171.76	171.33	171.50	171.96	171.57	171.40	171.39	171.42	171.17	171.28	
16	171.19	171.54	171.43	171.29	171.50	171.84	171.57	171.37	171.39	171.38	171.27	171.28	
17	171.19	171.39	171.47	171.30	171.50	171.99	171.57	171.42	171.38	171.38	171.26	171.28	
18	171.19	171.42	171.58	171.31	171.41	171.84	171.55	171.42	171.38	171.39	171.17	171.28	
19	171.19	171.35	171.51	171.21	171.65	171.70	171.55	171.43	171.38	171.36	171.30	171.27	
20	171.19	171.53	171.69	171.36	171.71	171.66	171.55	171.43	171.42	171.38	171.23	171.27	
21	171.23	171.51	171.58	171.71	171.62	171.64	171.56	171.43	171.39	171.37	171.23	171.28	
22	171.28	171.31	171.68	171.49	171.54	171.62	171.56	171.39	171.38	171.36	171.23	171.27	
23	171.25	171.34	171.45	171.56	171.74	171.71	171.58	171.40	171.38	171.37	171.27	171.25	
24	171.20	171.37	171.55	171.70	171.79	171.62	171.58	171.40	171.37	171.27	171.27	171.27	
25	171.23	171.39	171.52	171.67	171.64	171.61	171.58	171.39	171.37	171.31	171.27	171.28	
26	171.23	171.34	171.53	171.64	171.64	171.58	171.58	171.39	171.35	171.33	171.36	171.28	
27	171.24	171.38	171.52	171.56	171.56	171.60	171.58	171.39	171.37	171.37	171.24	171.26	
28	171.42	171.40	171.50	171.54	171.53	171.59	171.52	171.39	171.36	171.36	171.27	171.26	
29	171.32	171.36	171.48	171.52	171.48	171.59	171.54	171.39	171.38	171.36		171.27	
30	171.25	171.37	171.48	171.52	172.02	171.59	171.55	171.40	171.38	171.36		171.28	
31		171.37		171.50	171.66		171.57		171.36	171.36		171.58	
MEAN	171.24	171.35	171.52	171.39	171.57	172.16	171.58	171.43	171.39	171.37	171.24	171.28	
MAX	171.42	171.54	171.76	171.71	172.02	175.35	171.65	171.56	171.43	171.42	171.38	171.58	175.35
MIN	171.19	171.25	171.22	171.17	171.33	171.58	171.52	171.37	171.35	171.27	171.17	171.23	171.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 175.65 M (MSL), AT 6.00 HOURS, ON SEP 6, 1980
ZERO GAGE AT BOTTOM ELEVATION 170.60 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 641 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	1.04	2.32	5.90	3.24	13.00	7.40	6.20	3.46	2.64	2.16	0.64	
2	0.72	1.04	2.48	5.00	3.24	20.00	7.70	6.80	3.24	2.80	2.16	0.96	
3	0.72	0.80	0.56	0.56	3.02	44.80	7.40	4.78	3.24	2.80	2.48	0.96	
4	0.80	0.88	10.00	0.64	2.80	72.80	7.40	4.56	3.24	2.80	2.48	0.96	
5	0.40	0.80	6.80	0.36	2.64	332.25	7.40	2.64	3.24	2.80	0.32	0.96	
6	0.48	0.88	3.02	0.72	12.50	327.00	7.10	3.68	3.02	2.32	0.32	0.96	
7	0.64	4.12	6.50	0.56	11.20	149.33	10.00	4.56	3.24	2.16	0.32	0.96	
8	0.80	1.04	9.20	0.64	3.02	51.25	10.00	4.12	3.24	2.32	0.32	0.96	
9	0.96	2.48	6.20	0.88	1.68	27.85	7.40	4.34	3.02	2.48	0.32	0.80	
10	1.36	1.20	6.50	2.32	14.50	64.00	8.00	3.24	3.02	2.32	0.72	2.16	
11	2.16	0.96	2.48	0.56	8.80	16.00	8.00	3.24	3.02	2.32	0.32	1.84	
12	0.80	1.04	6.20	0.40	7.40	21.00	7.70	3.68	3.24	2.32	0.28	0.88	
13	0.80	1.20	7.10	0.28	5.60	17.50	7.70	3.46	2.32	2.48	0.28	1.04	
14	0.36	1.20	6.20	3.46	4.78	77.60	7.40	2.80	2.64	3.24	0.28	1.04	
15	0.36	2.00	15.00	1.68	5.00	25.90	7.10	2.80	2.64	3.24	0.28	1.04	
16	0.36	6.20	3.46	1.12	5.00	19.00	7.10	2.32	2.64	2.48	0.96	1.04	
17	0.36	2.64	4.34	1.20	5.00	27.85	7.10	3.24	2.48	2.48	0.88	1.04	
18	0.36	3.24	7.40	1.36	3.02	19.00	6.50	3.24	2.48	2.64	0.28	1.04	
19	0.36	2.00	5.30	0.48	10.00	12.00	6.50	3.46	2.48	2.16	1.20	0.96	
20	0.36	5.90	11.60	2.16	12.50	10.40	6.50	3.46	3.24	2.48	0.64	0.96	
21	0.64	5.30	7.40	12.50	8.80	9.60	6.80	3.46	2.64	2.32	0.64	1.04	
22	1.04	1.36	11.20	4.78	6.20	8.80	6.80	2.64	2.48	2.16	0.64	0.96	
23	0.80	1.84	3.90	6.80	14.00	12.50	7.40	2.80	2.48	2.32	0.96	0.80	
24	0.40	2.32	6.50	12.00	16.50	8.80	7.40	2.80	2.32	0.96	0.96	0.96	
25	0.64	2.64	5.60	10.80	9.60	8.40	7.40	2.64	2.32	1.36	0.96	1.04	
26	0.64	1.84	5.90	9.60	9.60	7.40	7.40	2.64	2.00	1.68	2.16	1.04	
27	0.72	2.48	5.60	6.80	6.80	8.00	7.40	2.64	2.32	2.32	0.72	0.88	
28	3.24	2.80	5.00	6.20	5.90	7.70	5.60	2.64	2.16	2.16	0.96	0.88	
29	1.52	2.16	4.56	5.60	4.56	7.70	6.20	2.64	2.48	2.16		0.96	
30	0.80	2.32	4.56	5.60	29.80	7.70	6.50	2.80	2.48	2.16		1.04	
31		2.32		5.00	10.40		7.10		2.16	2.16		7.40	
TOTAL	24.40	68.04	182.88	115.96	247.10	1435.13	227.40	104.32	84.98	73.04	25.00	38.20	2626.45 CMSDAY
MEAN	0.81	2.19	6.10	3.74	7.97	47.84	7.34	3.48	2.74	2.36	0.89	1.23	7.20 CMS
MAX	3.24	6.20	15.00	12.50	29.80	332.25	10.00	6.80	3.46	3.24	2.48	7.40	332.25 CMS
MIN	0.36	0.80	0.56	0.28	1.68	7.40	5.60	2.32	2.00	0.96	0.28	0.64	0.28 CMS
RUNOFF	2.108	5.879	15.801	10.019	21.349	123.995	19.647	9.013	7.342	6.311	2.160	3.300	226.925 MCM

MOMENTARY PEAK 363.75 CMS, AT 175.65 M (MSL), AT 6.00 HOURS, ON SEP 6, 1980

RUNOFF YIELD 11.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 567.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KHONG RIVER BASIN

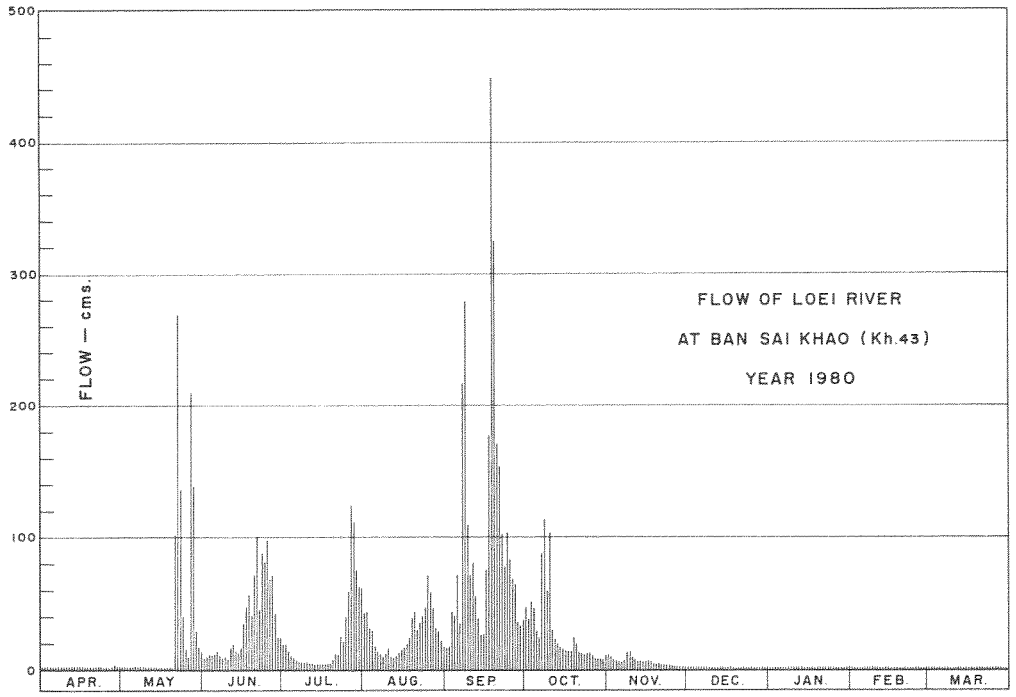
LOEI RIVER AT BAN SAI KHAO, LOEI (KH.43)

LOCATION	LAT. 17°-14'-15" N., LONG. 101°-41'-31" E., ON LEFT BANK DOWNSTREAM OF WAT KU KAM AT BAN SAI KHAO, AMPHOE WANG SAPHUNG, LOEI.
DRAINAGE AREA	991 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=H.D.
LOCATION	UNDER TAMARIND TREE ALONG THE MEASURING LINE.
ELEVATION	+10.667 M.(A.D.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 - 1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 - 1973
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1.274 DISCHARGE MEASUREMENTS MADE DURING 1966-1973.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.69	1.16	1.48	1.95	1.67	2.08	1.30	0.91	0.78	0.72	0.66	
2	0.64	0.67	1.21	1.50	2.02	1.68	1.81	1.22	0.90	0.77	0.71	0.66	
3	0.63	0.67	1.29	1.32	1.75	2.00	2.15	1.16	0.89	0.77	0.71	0.66	
4	0.65	0.67	1.26	1.23	1.67	1.92	2.05	1.13	0.89	0.77	0.71	0.66	
5	0.71	0.66	1.32	1.17	1.48	2.48	1.69	1.11	0.88	0.77	0.71	0.66	
6	0.73	0.69	1.35	1.12	1.37	1.82	1.57	1.09	0.87	0.76	0.71	0.67	
7	0.70	0.70	1.23	1.08	1.30	4.02	2.67	1.08	0.86	0.76	0.71	0.64	
8	0.67	0.74	1.12	1.06	1.24	4.84	3.02	1.35	0.86	0.76	0.70	0.71	
9	0.66	0.69	1.20	1.07	1.31	3.07	2.24	1.33	0.85	0.76	0.70	0.70	
10	0.64	0.67	1.08	1.06	1.40	2.45	2.88	1.24	0.85	0.75	0.70	0.70	
11	0.63	0.68	1.43	1.04	1.24	2.59	1.72	1.15	0.85	0.75	0.70	0.69	
12	0.63	0.70	1.50	1.01	1.17	2.11	1.59	1.10	0.85	0.75	0.70	0.68	
13	0.68	0.68	1.35	0.99	1.24	1.85	1.50	1.08	0.84	0.75	0.70	0.68	
14	0.67	0.66	1.27	0.97	1.30	1.67	1.43	1.06	0.84	0.75	0.69	0.67	
15	0.68	0.68	1.42	0.96	1.39	1.65	1.38	1.04	0.84	0.74	0.69	0.66	
16	0.66	0.67	1.86	0.99	1.30	2.22	1.34	1.02	0.84	0.74	0.69	0.66	
17	0.65	0.67	2.11	1.03	1.50	2.94	1.34	1.01	0.83	0.74	0.69	0.65	
18	0.63	0.69	2.24	0.99	1.55	6.30	1.30	1.00	0.83	0.74	0.68	0.65	
19	0.68	0.67	1.94	1.00	1.96	4.94	1.63	0.99	0.82	0.74	0.68	0.65	
20	0.65	0.67	2.50	1.10	2.03	3.61	1.50	0.98	0.82	0.74	0.68	0.64	
21	0.62	2.92	2.87	1.31	1.74	3.47	1.34	0.97	0.81	0.73	0.68	0.64	
22	0.63	4.73	2.04	1.26	1.85	2.70	1.30	0.91	0.81	0.73	0.67	0.64	
23	0.62	3.54	2.68	1.60	1.94	2.53	1.26	0.95	0.80	0.73	0.67	0.64	
24	0.62	1.85	2.59	1.53	2.09	2.89	1.24	0.95	0.80	0.73	0.67	0.64	
25	0.62	1.35	2.83	2.03	2.46	2.49	1.30	0.94	0.79	0.73	0.67	0.63	
26	0.61	1.21	2.57	2.27	2.27	2.40	1.30	0.94	0.79	0.73	0.67	0.63	
27	0.77	4.13	2.61	3.14	2.04	2.36	1.21	0.93	0.79	0.72	0.66	0.63	
28	0.95	2.88	1.86	3.01	1.72	1.86	1.18	0.93	0.79	0.72	0.66	0.63	
29	0.79	1.67	1.60	2.80	1.64	1.81	1.15	0.92	0.78	0.72		0.63	
30	0.72	1.43	1.62	2.20	1.51	1.76	1.15	0.92	0.78	0.72		0.63	
31		1.25		2.32	1.45		1.25		0.78	0.72		0.63	
MEAN	0.67	1.31	1.77	1.47	1.64	2.67	1.63	1.06	0.83	0.74	0.69	0.66	
MAX	0.95	4.73	2.87	3.14	2.46	6.30	3.02	1.35	0.91	0.78	0.72	0.71	6.30
MIN	0.61	0.66	1.08	0.96	1.17	1.65	1.15	0.91	0.78	0.72	0.66	0.63	0.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.98 M (A.D.), AT 18.00 HOURS, ON SEP 18, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED 0.45 M (A.D.)
LEFT BANK ELEVATION 11.26 M (A.D.)
RIGHT BANK ELEVATION 10.34 M (A.D.), DRAINAGE AREA 991 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.74	9.00	19.70	41.50	27.65	48.80	13.00	3.20	1.52	0.98	0.56	
2	0.44	0.62	10.30	20.50	45.20	28.10	34.50	10.60	3.00	1.43	0.89	0.56	
3	0.38	0.62	12.70	13.70	31.50	44.00	53.00	9.00	2.87	1.43	0.89	0.56	
4	0.50	0.62	11.80	10.90	27.65	40.00	47.00	8.25	2.87	1.43	0.89	0.56	
5	0.89	0.56	13.70	9.25	19.70	73.70	28.55	7.75	2.74	1.43	0.89	0.56	
6	1.07	0.74	14.75	8.00	15.45	35.00	23.30	7.25	2.61	1.34	0.89	0.62	
7	0.80	0.80	10.90	7.00	13.00	200.30	87.25	7.00	2.48	1.34	0.89	0.44	
8	0.62	1.16	8.00	6.50	11.20	279.00	114.60	14.75	2.48	1.34	0.80	0.89	
9	0.56	0.74	10.00	6.75	13.35	118.60	58.40	14.05	2.35	1.34	0.80	0.80	
10	0.44	0.62	7.00	6.50	16.50	71.75	103.40	11.20	2.35	1.25	0.80	0.80	
11	0.38	0.68	17.70	6.00	11.20	81.30	30.00	8.75	2.35	1.25	0.80	0.74	
12	0.38	0.80	20.50	5.25	9.25	50.60	24.10	7.50	2.35	1.25	0.80	0.68	
13	0.68	0.68	14.75	4.80	11.20	36.50	20.50	7.00	2.22	1.25	0.80	0.68	
14	0.62	0.56	12.10	4.40	13.00	27.65	17.70	6.50	2.22	1.25	0.74	0.62	
15	0.68	0.68	17.30	4.20	16.15	26.75	15.80	6.00	2.22	1.16	0.74	0.56	
16	0.56	0.62	37.00	4.80	13.00	57.20	14.40	5.50	2.22	1.16	0.74	0.56	
17	0.50	0.62	50.60	5.75	20.50	108.20	14.40	5.25	2.09	1.16	0.74	0.50	
18	0.38	0.74	58.40	4.80	22.50	448.00	13.00	5.00	2.09	1.16	0.68	0.50	
19	0.68	0.62	41.00	5.00	42.00	289.20	25.85	4.80	1.96	1.16	0.68	0.50	
20	0.50	0.62	75.00	7.50	45.80	163.40	20.50	4.60	1.96	1.16	0.68	0.44	
21	0.32	106.60	102.60	13.35	31.00	150.95	14.40	4.40	1.83	1.07	0.68	0.44	
22	0.38	268.00	46.40	11.80	36.50	89.50	13.00	3.20	1.83	1.07	0.62	0.44	
23	0.32	157.10	88.00	24.50	41.00	77.10	11.80	4.00	1.70	1.07	0.62	0.44	
24	0.32	36.50	81.30	21.70	49.40	104.20	11.20	4.00	1.70	1.07	0.62	0.44	
25	0.32	14.75	99.40	45.80	72.40	74.35	13.00	3.80	1.61	1.07	0.62	0.38	
26	0.26	10.30	79.90	60.20	60.20	68.50	13.00	3.80	1.61	1.07	0.62	0.38	
27	1.43	210.35	82.75	124.20	46.40	65.90	10.30	3.60	1.61	0.98	0.56	0.38	
28	4.00	103.40	37.00	113.80	30.00	37.00	9.50	3.60	1.61	0.98	0.56	0.38	
29	1.61	27.65	24.50	97.00	26.30	34.50	8.75	3.40	1.52	0.98		0.38	
30	0.98	17.70	25.40	56.00	20.90	32.00	8.75	3.40	1.52	0.98		0.38	
31		11.50		63.30	18.50		11.50		1.52	0.98		0.38	
TOTAL	21.44	977.69	1119.75	792.95	872.25	2940.90	920.25	200.95	66.69	37.13	21.02	16.55	7987.56 CMSDAY
MEAN	0.71	31.54	37.32	25.58	28.14	98.03	29.69	6.70	2.15	1.20	0.75	0.53	21.88 CMS
MAX	4.00	268.00	102.60	124.20	72.40	448.00	114.60	14.75	3.20	1.52	0.98	0.89	448.00 CMS
MIN	0.26	0.56	7.00	4.20	9.25	26.75	8.75	3.20	1.52	0.98	0.56	0.38	0.26 CMS
RUNOFF	1.852	84.472	96.746	68.511	75.362	254.094	79.510	17.362	5.762	3.208	1.816	1.430	690.125 MCM

MOMENTARY PEAK 705.40 CMS, AT 7.98 M (A.D), AT 18.00 HOURS, ON SEP 18, 1980

RUNOFF YIELD 22.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 711.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KHONG RIVER BASIN

LOEI RIVER NEAR BAN SAI KHAO, LOEI (KH.43A)

LOCATION — LAT. 17°-13'-30" N., LONG. 101°-41'-26" E., ON RIGHT BANK ABOUT 3 KILOMETERS UPSTREAM FROM KH.43 STATION NEAR BAN SAI KHAO, AMPHOE WANG SAPHUNG, LOEI.

DRAINAGE AREA — 790 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK UNDER TAMARIND TREE ALONG THE MEASURING LINE.

ELEVATION — +9.633 M.(A.D.)

GAGE READING FREQUENCY — 3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1968 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968 - 1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968 - 1973

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

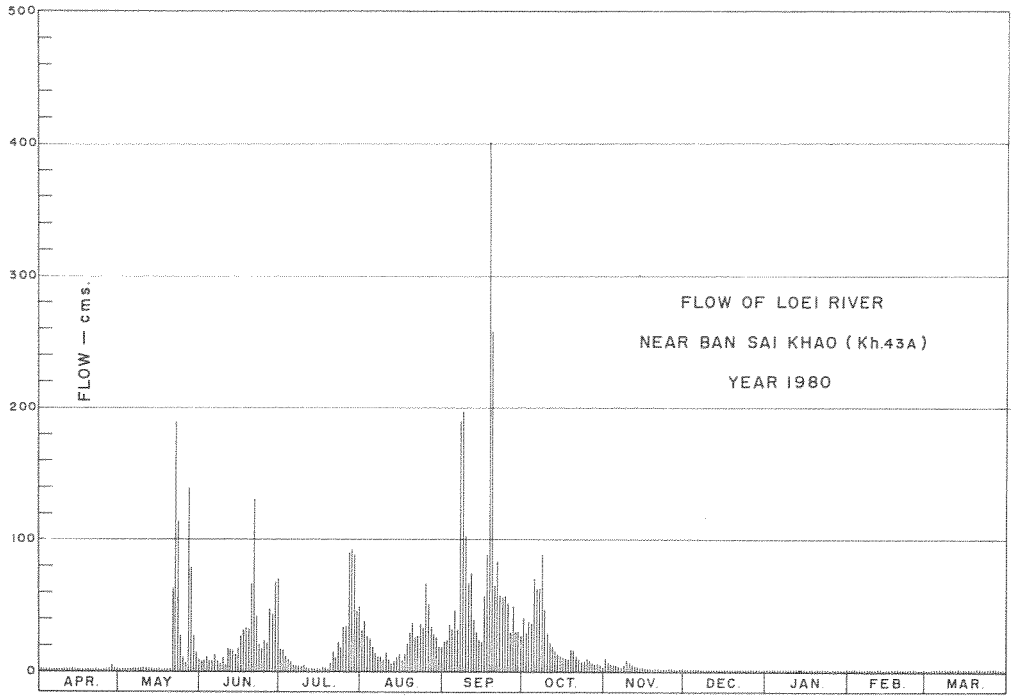
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1.055 DISCHARGE MEASUREMENTS MADE DURING 1968-1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.61	0.67	1.06	1.43	1.85	1.62	2.01	1.22	0.82	0.74	0.67	0.62	
2	0.60	0.65	1.19	1.43	1.98	1.67	1.72	1.13	0.82	0.74	0.67	0.62	
3	0.60	0.66	1.23	1.24	1.69	1.91	1.98	1.07	0.81	0.73	0.67	0.62	
4	0.63	0.64	1.16	1.15	1.66	1.86	1.95	1.04	0.81	0.73	0.67	0.62	
5	0.75	0.63	1.17	1.09	1.46	2.13	2.60	1.02	0.81	0.73	0.67	0.62	
6	0.75	0.67	1.31	1.03	1.33	1.83	2.47	0.99	0.80	0.73	0.66	0.63	
7	0.68	0.70	1.15	0.99	1.24	4.22	2.47	0.97	0.80	0.72	0.66	0.74	
8	0.65	0.75	1.10	0.96	1.27	4.33	2.86	1.09	0.80	0.72	0.66	0.69	
9	0.62	0.68	1.23	0.97	1.19	3.04	2.07	1.18	0.79	0.72	0.66	0.67	
10	0.59	0.66	1.06	0.97	1.36	2.41	1.77	1.12	0.79	0.72	0.66	0.67	
11	0.58	0.69	1.46	0.94	1.17	2.64	1.60	1.04	0.79	0.72	0.66	0.67	
12	0.59	0.70	1.43	0.90	1.10	2.01	1.47	0.99	0.80	0.71	0.65	0.65	
13	0.66	0.64	1.43	0.89	1.13	1.82	1.41	0.97	0.79	0.71	0.65	0.65	
14	0.65	0.64	1.32	0.88	1.24	1.65	1.33	0.95	0.79	0.71	0.65	0.64	
15	0.64	0.67	1.42	0.87	1.33	1.61	1.29	0.93	0.79	0.71	0.65	0.63	
16	0.62	0.64	1.79	0.90	1.16	2.25	1.25	0.92	0.78	0.70	0.65	0.63	
17	0.62	0.62	1.82	0.95	1.32	2.86	1.26	0.91	0.78	0.70	0.64	0.63	
18	0.60	0.62	1.86	0.92	1.55	6.32	1.21	0.90	0.78	0.70	0.64	0.62	
19	0.75	0.61	1.85	0.90	1.85	4.98	1.47	0.89	0.78	0.70	0.64	0.62	
20	0.65	0.64	2.49	1.06	1.94	2.49	1.42	0.88	0.77	0.70	0.64	0.62	
21	0.59	2.44	3.47	1.40	1.69	2.78	1.26	0.88	0.77	0.70	0.64	0.62	
22	0.59	4.23	1.82	1.21	1.72	2.36	1.21	0.87	0.77	0.69	0.63	0.61	
23	0.58	3.21	1.56	1.59	1.94	2.34	1.17	0.86	0.76	0.69	0.63	0.61	
24	0.57	1.66	1.44	1.48	1.89	2.35	1.15	0.86	0.76	0.69	0.63	0.61	
25	0.56	1.23	1.61	1.90	2.51	2.25	1.22	0.85	0.76	0.69	0.63	0.61	
26	0.55	1.13	1.56	1.88	2.25	1.84	1.20	0.85	0.75	0.68	0.62	0.61	
27	0.81	3.58	2.16	2.91	1.90	2.21	1.12	0.84	0.75	0.68	0.62	0.60	
28	0.99	2.70	1.95	2.93	1.73	1.79	1.09	0.84	0.75	0.68	0.62	0.60	
29	0.83	1.65	2.53	2.86	1.67	1.76	1.06	0.83	0.75	0.68		0.60	
30	0.72	1.35	2.57	2.07	1.51	1.68	1.05	0.83	0.74	0.68		0.60	
31		1.16		2.20	1.45		1.14		0.74	0.67		0.60	
MEAN	0.65	1.21	1.64	1.38	1.58	2.50	1.55	0.95	0.78	0.70	0.64	0.63	
MAX	0.99	4.23	3.47	2.93	2.51	6.32	2.86	1.22	0.82	0.74	0.67	0.74	6.32
MIN	0.55	0.61	1.06	0.87	1.10	1.61	1.05	0.83	0.74	0.67	0.62	0.60	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.67 M (A.D), AT 17.00 HOURS, ON SEP 18, 1980
ZERO GAGE AT BOTTOM ELEVATION -1.09 M (A.D), RIVER BED 0.18 M (A.D)
LEFT BANK ELEVATION 8.46 M (A.D)
RIGHT BANK ELEVATION 7.28 M (A.D), DRAINAGE AREA 790 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.80	7.12	17.78	33.84	24.64	41.30	11.48	2.32	1.36	0.80	0.50	
2	0.39	0.68	10.58	17.78	39.80	26.64	28.64	8.78	2.32	1.36	0.80	0.50	
3	0.39	0.74	11.78	12.08	27.44	36.30	39.80	7.32	2.12	1.26	0.80	0.50	
4	0.56	0.62	9.68	9.38	26.24	34.24	38.30	6.72	2.12	1.26	0.80	0.50	
5	1.46	0.56	9.98	7.72	18.68	47.30	72.76	6.32	2.12	1.26	0.80	0.50	
6	1.46	0.80	14.18	6.52	14.78	33.04	64.96	5.72	1.96	1.26	0.74	0.56	
7	0.86	0.98	9.38	5.72	12.08	188.28	64.96	5.32	1.96	1.16	0.74	1.36	
8	0.68	1.46	7.92	5.12	12.98	197.21	89.64	7.72	1.96	1.16	0.74	0.92	
9	0.50	0.86	11.78	5.32	10.58	101.52	44.30	10.28	1.86	1.16	0.74	0.80	
10	0.37	0.74	7.12	5.32	15.68	61.36	30.64	8.48	1.86	1.16	0.74	0.80	
11	0.35	0.92	18.68	4.72	9.98	75.34	23.84	6.72	1.86	1.16	0.74	0.80	
12	0.37	0.98	17.78	3.92	7.92	41.30	18.98	5.72	1.96	1.06	0.68	0.68	
13	0.74	0.62	17.78	3.72	8.78	32.64	17.18	5.32	1.86	1.06	0.68	0.68	
14	0.68	0.62	14.48	3.52	12.08	25.84	14.78	4.92	1.86	1.06	0.68	0.62	
15	0.62	0.80	17.48	3.32	14.78	24.24	13.58	4.52	1.86	1.06	0.68	0.56	
16	0.50	0.62	31.44	3.92	9.68	53.30	12.38	4.32	1.76	0.98	0.68	0.56	
17	0.50	0.50	32.64	4.92	14.48	89.64	12.68	4.12	1.76	0.98	0.62	0.56	
18	0.39	0.50	34.24	4.32	21.84	401.34	11.18	3.92	1.76	0.98	0.62	0.50	
19	1.46	0.44	33.84	3.92	33.84	257.10	18.98	3.72	1.76	0.98	0.62	0.50	
20	0.68	0.62	66.16	7.12	37.80	66.16	17.48	3.52	1.66	0.98	0.62	0.50	
21	0.37	63.16	131.62	16.88	27.44	84.44	12.68	3.52	1.66	0.98	0.62	0.50	
22	0.37	189.08	32.64	11.18	28.64	58.80	11.18	3.32	1.66	0.92	0.56	0.44	
23	0.35	113.42	22.24	23.44	37.80	57.80	9.98	3.12	1.56	0.92	0.56	0.44	
24	0.33	26.24	18.08	19.28	35.44	58.30	9.38	3.12	1.56	0.92	0.56	0.44	
25	0.31	11.78	24.24	35.84	67.36	53.30	11.48	2.92	1.56	0.92	0.56	0.44	
26	0.29	8.78	22.24	35.04	53.30	33.44	10.88	2.92	1.46	0.86	0.50	0.44	
27	2.12	139.32	48.80	92.89	35.84	51.30	8.48	2.72	1.46	0.86	0.50	0.39	
28	5.72	79.24	38.30	94.19	29.04	31.44	7.72	2.72	1.46	0.86	0.50	0.39	
29	2.52	25.84	68.56	89.64	26.64	30.24	7.12	2.52	1.46	0.86		0.39	
30	1.16	15.38	70.96	44.30	20.24	27.04	6.92	2.52	1.36	0.86		0.39	
31		9.68		50.80	18.38		9.08		1.36	0.80		0.39	
TOTAL	26.94	696.78	861.72	649.62	763.40	2303.53	781.26	154.34	55.26	32.46	18.68	17.55	6361.53 CMSDAY
MEAN	0.90	22.48	28.72	20.96	24.63	76.78	25.20	5.14	1.78	1.05	0.67	0.57	17.43 CMS
MAX	5.72	189.08	131.62	94.19	67.36	401.34	89.64	11.48	2.32	1.36	0.80	1.36	401.34 CMS
MIN	0.29	0.44	7.12	3.32	7.92	24.24	6.92	2.52	1.36	0.80	0.50	0.39	0.29 CMS
RUNOFF	2.328	60.202	74.453	56.127	65.958	199.025	67.501	13.335	4.774	2.805	1.614	1.516	549.636 MCM

MOMENTARY PEAK 568.90 CMS, AT 7.67 M (A.D), AT 17.00 HOURS, ON SEP 18, 1980

RUNOFF YIELD 22.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 720.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KHONG RIVER BASIN

HUAI LUANG AT NONG WUA SO. UDON THANI (KH.53)

LOCATION — LAT. 17°-15'-53" N., LONG. 102°-35'-48" E., ON LEFT BANK AT THE BRIDGE OF UDON THANI-NONG BUA LAMPHU HIGHWAY, AMPHOE NONG WUA SO, UDON THANI.

DRAINAGE AREA — 436 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK UPSTREAM FROM THE GAGE SITE.

ELEVATION — +5.885 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1970 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1975 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1975 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

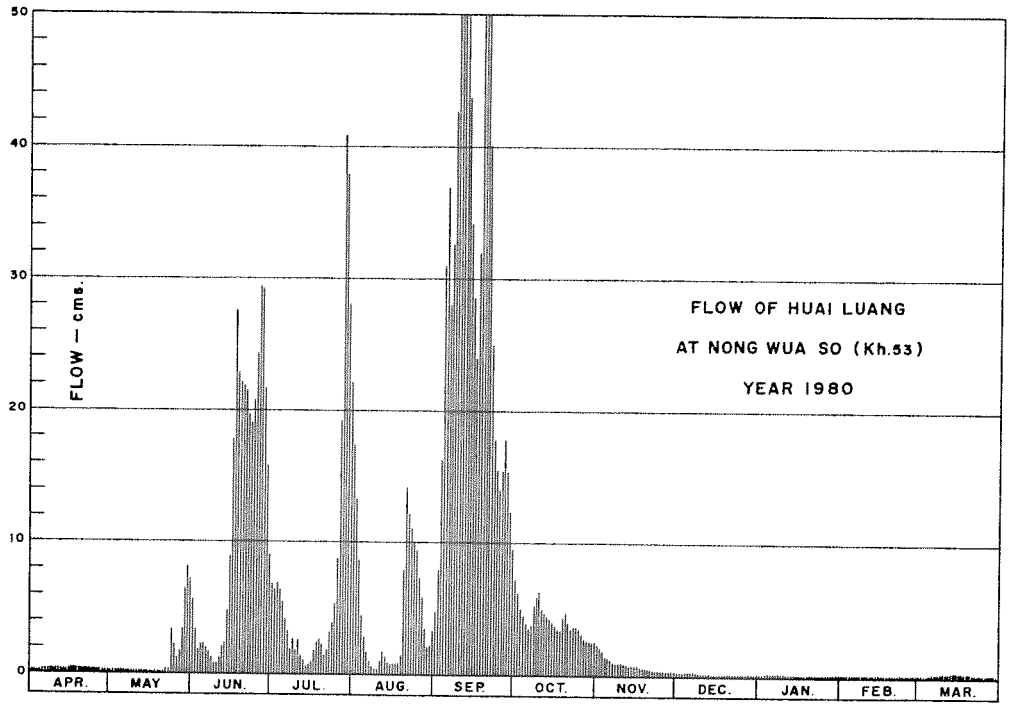
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 91 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.05	-0.06	0.55	0.72	1.60	0.52	0.73	0.27	-0.06	-0.14	-0.16	-0.14	
2	-0.09	-0.07	0.33	0.69	1.28	0.86	0.63	0.25	-0.07	-0.14	-0.16	-0.14	
3	-0.08	-0.07	0.22	0.74	0.86	1.45	0.56	0.23	-0.07	-0.15	-0.16	-0.14	
4	-0.07	-0.07	0.27	0.67	0.49	2.55	0.51	0.17	-0.07	-0.15	-0.16	-0.14	
5	-0.07	-0.07	0.28	0.54	0.32	2.71	0.46	0.17	-0.07	-0.15	-0.15	-0.12	
6	-0.05	-0.07	0.24	0.42	0.19	2.22	0.39	0.14	-0.07	-0.15	-0.14	-0.08	
7	-0.05	-0.08	0.20	0.36	0.10	2.45	0.43	0.11	-0.08	-0.15	-0.12	-0.07	
8	-0.05	-0.08	0.14	0.21	0.03	3.02	0.57	0.11	-0.08	-0.15	-0.14	-0.07	
9	-0.05	-0.08	0.07	0.32	0.00	3.55	0.63	0.10	-0.09	-0.15	-0.15	-0.07	
10	-0.05	-0.08	0.05	0.23	-0.04	3.54	0.68	0.10	-0.09	-0.15	-0.16	-0.07	
11	-0.06	-0.09	0.13	0.30	0.08	3.45	0.56	0.09	-0.10	-0.15	-0.16	-0.06	
12	-0.06	-0.09	0.25	0.16	0.21	3.53	0.52	0.08	-0.11	-0.15	-0.16	-0.05	
13	-0.06	-0.10	0.28	0.08	0.16	3.21	0.50	0.07	-0.11	-0.15	-0.16	-0.04	
14	-0.06	-0.10	0.53	0.00	0.09	2.59	0.49	0.07	-0.12	-0.15	-0.16	-0.03	
15	-0.03	-0.11	0.98	0.04	0.03	2.22	0.47	0.06	-0.12	-0.15	-0.16	-0.04	
16	-0.02	-0.11	1.60	0.06	0.09	2.00	0.43	0.05	-0.13	-0.15	-0.16	-0.04	
17	-0.04	-0.12	2.19	0.20	0.08	2.43	0.40	0.05	-0.13	-0.16	-0.16	-0.05	
18	-0.05	-0.12	1.88	0.29	0.06	3.61	0.39	0.03	-0.12	-0.16	-0.16	-0.06	
19	-0.05	-0.13	1.87	0.31	0.13	3.50	0.49	0.01	-0.12	-0.16	-0.16	-0.06	
20	-0.05	-0.14	1.85	0.27	0.92	3.32	0.52	0.01	-0.13	-0.16	-0.16	-0.07	
21	-0.05	-0.12	1.83	0.15	1.31	2.75	0.43	0.00	-0.13	-0.16	-0.15	-0.08	
22	-0.05	-0.02	1.72	0.20	1.16	2.03	0.39	-0.01	-0.13	-0.16	-0.15	-0.10	
23	-0.06	-0.02	1.68	0.40	1.09	1.62	0.42	-0.01	-0.13	-0.16	-0.15	-0.11	
24	-0.06	0.39	1.80	0.44	1.03	1.41	0.42	-0.02	-0.13	-0.17	-0.15	-0.12	
25	-0.06	0.26	1.98	0.65	0.97	1.32	0.40	-0.02	-0.13	-0.17	-0.15	-0.12	
26	-0.06	0.15	2.29	1.00	0.80	1.41	0.36	-0.03	-0.13	-0.18	-0.14	-0.12	
27	-0.06	0.22	2.29	1.68	0.64	1.58	0.32	-0.03	-0.13	-0.18	-0.13	-0.12	
28	-0.06	0.41	1.75	2.89	0.44	1.41	0.32	-0.04	-0.13	-0.18	-0.13	-0.13	
29	-0.06	0.72	1.15	2.74	0.26	1.23	0.32	-0.05	-0.14	-0.17		-0.13	
30	-0.06	0.86	0.82	2.19	0.27	0.95	0.29	-0.06	-0.14	-0.16		-0.14	
31		0.74		1.88	0.40		0.30		-0.14	-0.16		-0.14	
MEAN	-0.06	0.06	1.04	0.67	0.49	2.28	0.46	0.06	-0.11	-0.16	-0.15	-0.09	
MAX	-0.02	0.86	2.29	2.89	1.60	3.61	0.73	0.27	-0.06	-0.14	-0.12	-0.03	3.61
MIN	-0.09	-0.14	0.05	0.00	-0.04	0.52	0.29	-0.06	-0.14	-0.18	-0.16	-0.14	-0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.68 M (A.D), AT 12.00 HOURS, ON SEP 18, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 5.35 M (A.D)
RIGHT BANK ELEVATION 5.81 M (A.D), DRAINAGE AREA 436 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.36	5.00	6.72	18.10	4.70	6.83	2.33	0.36	0.12	0.08	0.12	
2	0.24	0.32	2.87	6.40	13.62	8.26	5.80	2.15	0.32	0.12	0.08	0.12	
3	0.28	0.32	1.88	6.94	8.26	16.00	5.10	1.97	0.32	0.10	0.08	0.12	
4	0.32	0.32	2.33	6.20	4.40	33.85	4.60	1.49	0.32	0.10	0.08	0.12	
5	0.32	0.32	2.42	4.90	2.78	37.00	4.10	1.49	0.32	0.10	0.10	0.16	
6	0.40	0.32	2.06	3.70	1.63	28.04	3.41	1.28	0.32	0.10	0.12	0.28	
7	0.40	0.28	1.70	3.14	1.00	32.00	3.80	1.07	0.28	0.10	0.16	0.32	
8	0.40	0.28	1.28	1.79	0.72	43.76	5.20	1.07	0.28	0.10	0.12	0.32	
9	0.40	0.28	0.88	2.78	0.60	56.70	5.80	1.00	0.24	0.10	0.10	0.32	
10	0.40	0.28	0.80	1.97	0.44	56.44	6.30	1.00	0.24	0.10	0.08	0.32	
11	0.36	0.24	1.21	2.60	0.92	54.10	5.10	0.96	0.20	0.10	0.08	0.36	
12	0.36	0.24	2.15	1.42	1.79	56.18	4.70	0.92	0.18	0.10	0.08	0.40	
13	0.36	0.20	2.42	0.92	1.42	48.13	4.50	0.88	0.18	0.10	0.08	0.44	
14	0.36	0.20	4.80	0.60	0.96	34.61	4.40	0.88	0.16	0.10	0.08	0.48	
15	0.48	0.18	9.58	0.76	0.72	28.04	4.20	0.84	0.16	0.10	0.08	0.44	
16	0.52	0.18	18.10	0.84	0.96	24.30	3.80	0.80	0.14	0.10	0.08	0.44	
17	0.44	0.16	27.53	1.70	0.92	31.64	3.50	0.80	0.14	0.08	0.08	0.40	
18	0.40	0.16	22.29	2.51	0.84	58.26	3.41	0.72	0.16	0.08	0.08	0.36	
19	0.40	0.14	22.13	2.69	1.21	55.40	4.40	0.64	0.16	0.08	0.08	0.36	
20	0.40	0.12	21.82	2.33	8.92	50.72	4.70	0.64	0.14	0.08	0.08	0.32	
21	0.40	0.16	21.51	1.35	14.04	37.80	3.80	0.60	0.14	0.08	0.10	0.28	
22	0.40	0.52	19.81	1.70	11.94	24.81	3.41	0.56	0.14	0.08	0.10	0.20	
23	0.36	0.52	19.22	3.50	10.97	18.38	3.70	0.56	0.14	0.08	0.10	0.18	
24	0.36	3.41	21.05	3.90	10.19	15.44	3.70	0.52	0.14	0.06	0.10	0.16	
25	0.36	2.24	23.96	6.00	9.47	14.18	3.50	0.52	0.14	0.06	0.10	0.16	
26	0.36	1.35	29.23	9.80	7.60	15.44	3.14	0.48	0.14	0.04	0.12	0.16	
27	0.36	1.88	29.23	19.22	5.90	17.82	2.78	0.48	0.14	0.04	0.14	0.16	
28	0.36	3.60	20.27	40.78	3.90	15.44	2.78	0.44	0.14	0.04	0.14	0.14	
29	0.36	6.72	11.80	37.60	2.24	12.92	2.78	0.40	0.12	0.06		0.14	
30	0.36	8.26	7.82	27.53	2.33	9.25	2.51	0.36	0.12	0.08		0.12	
31		6.94		22.29	3.50		2.60		0.12	0.08		0.12	
TOTAL	11.32	40.50	357.15	234.58	152.29	939.61	128.35	27.85	6.10	2.66	2.70	8.02	1911.13 CMSDAY
MEAN	0.38	1.31	11.90	7.57	4.91	31.32	4.14	0.93	0.20	0.09	0.10	0.26	5.24 CMS
MAX	0.52	8.26	29.23	40.78	18.10	58.26	6.83	2.33	0.36	0.12	0.16	0.48	58.26 CMS
MIN	0.24	0.12	0.80	0.60	0.44	4.70	2.51	0.36	0.12	0.04	0.08	0.12	0.04 CMS
RUNOFF	0.978	3.499	30.858	20.268	13.158	81.182	11.089	2.406	0.527	0.230	0.233	0.693	165.121 MCM

MOMENTARY PEAK 60.08 CMS, AT 3.68 M (A.D), AT 12.00 HOURS, ON SEP 18, 1980

RUNOFF YIELD 12.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 137.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KHONG RIVER BASIN

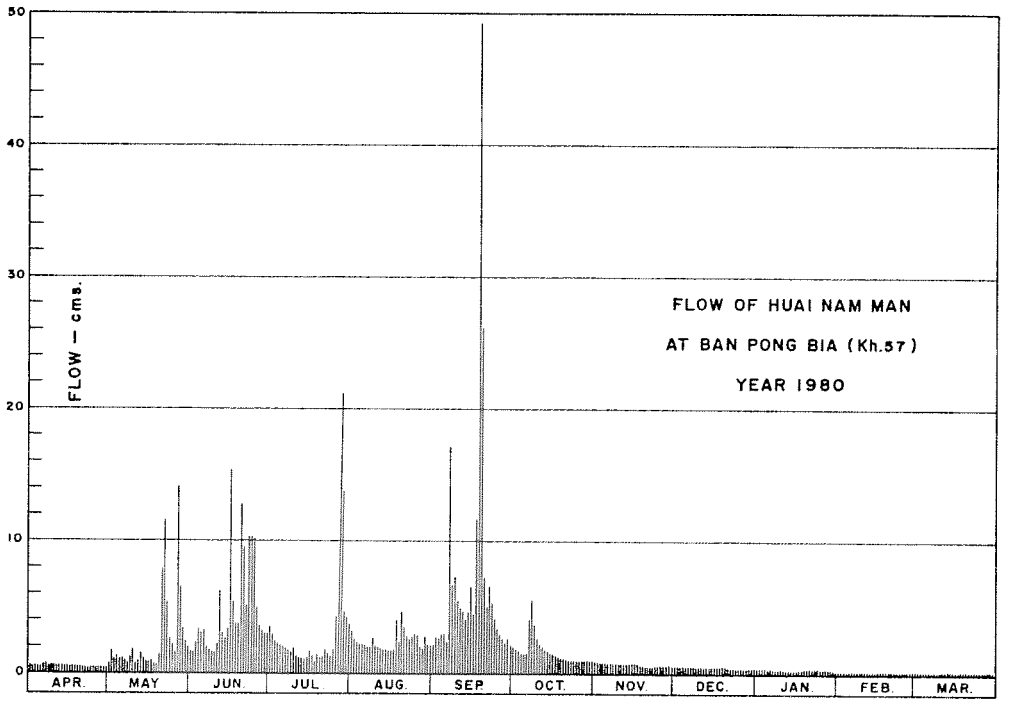
HUAI NAM MAN AT BAN PONG BIA, LOEI (KM.57)

LOCATION	LAT. 17°-30'-13" N., LONG. 101°-37'-35" E., ON LEFT BANK AT BAN PONG BIA, TAMBON NAM MAN, AMPHOE MUANG, LOEI.
DRAINAGE AREA	79 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+12.895 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 92 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.56	0.55	0.72	0.90	0.85	0.78	0.76	0.62	0.56	0.52	0.48	0.46	
2	0.53	0.73	0.71	0.82	0.81	0.84	0.73	0.62	0.55	0.53	0.48	0.46	
3	0.54	0.63	0.76	0.80	0.79	0.82	0.72	0.61	0.55	0.52	0.48	0.45	
4	0.55	0.69	0.89	0.78	0.79	0.86	0.71	0.61	0.55	0.52	0.48	0.45	
5	0.59	0.65	0.86	0.78	0.74	0.86	0.70	0.61	0.55	0.52	0.48	0.48	
6	0.56	0.67	0.87	0.83	0.78	0.82	0.71	0.60	0.55	0.52	0.48	0.47	
7	0.55	0.64	0.76	0.76	0.75	1.75	0.92	0.60	0.55	0.52	0.48	0.46	
8	0.56	0.61	0.73	0.74	0.75	1.11	1.02	0.60	0.55	0.52	0.48	0.45	
9	0.56	0.65	0.71	0.72	0.83	1.16	0.69	0.60	0.54	0.52	0.48	0.45	
10	0.56	0.73	0.71	0.74	0.78	1.04	0.80	0.60	0.54	0.52	0.47	0.47	
11	0.56	0.61	0.77	0.70	0.76	0.98	0.76	0.60	0.54	0.51	0.46	0.47	
12	0.56	0.61	1.09	0.67	0.75	0.99	0.74	0.59	0.54	0.51	0.46	0.46	
13	0.55	0.71	0.85	0.66	0.74	0.94	0.72	0.59	0.54	0.51	0.46	0.46	
14	0.55	0.63	0.83	0.64	0.74	0.99	0.71	0.58	0.54	0.51	0.46	0.46	
15	0.55	0.61	0.87	0.65	0.74	1.11	0.70	0.58	0.54	0.50	0.46	0.45	
16	0.55	0.61	1.66	0.73	0.73	0.99	0.69	0.58	0.53	0.50	0.45	0.45	
17	0.55	0.63	1.04	0.69	0.72	1.58	0.68	0.58	0.53	0.51	0.45	0.45	
18	0.59	0.60	0.91	0.70	0.94	3.15	0.67	0.58	0.53	0.51	0.45	0.44	
19	0.55	0.59	0.92	0.69	0.79	1.36	0.66	0.57	0.53	0.51	0.45	0.44	
20	0.54	0.73	1.51	0.67	0.98	1.13	0.65	0.57	0.52	0.51	0.45	0.44	
21	0.54	1.23	1.41	0.66	0.90	1.01	0.65	0.57	0.52	0.51	0.45	0.43	
22	0.55	1.43	1.01	0.74	0.83	1.11	0.64	0.57	0.52	0.51	0.45	0.43	
23	0.55	0.96	1.35	0.72	0.82	1.00	0.64	0.57	0.52	0.51	0.45	0.42	
24	0.55	0.82	1.36	0.68	0.83	0.97	0.63	0.57	0.52	0.50	0.45	0.42	
25	0.55	0.76	1.35	0.73	0.86	0.88	0.63	0.57	0.52	0.50	0.45	0.42	
26	0.55	0.72	0.98	0.87	0.85	0.84	0.63	0.57	0.52	0.50	0.45	0.42	
27	0.55	1.58	0.91	1.06	0.79	0.81	0.63	0.57	0.52	0.50	0.46	0.41	
28	0.54	1.01	0.89	1.41	0.76	0.79	0.62	0.56	0.52	0.49	0.46	0.41	
29	0.54	0.89	0.86	0.99	0.74	0.82	0.62	0.56	0.51	0.49		0.42	
30	0.54	0.80	0.85	0.97	0.82	0.76	0.65	0.56	0.51	0.49		0.55	
31		0.75		0.91	0.78		0.63		0.52	0.49		0.67	
MEAN	0.55	0.77	0.97	0.79	0.80	1.07	0.71	0.59	0.53	0.51	0.46	0.46	
MAX	0.59	1.58	1.66	1.41	0.98	3.15	1.02	0.62	0.56	0.53	0.48	0.67	3.15
MIN	0.53	0.55	0.71	0.64	0.72	0.76	0.62	0.56	0.51	0.49	0.45	0.41	0.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.19 M (A.D.), AT 1.00 HOURS, ON SEP 18, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED 0.03 M (A.D.)
LEFT BANK ELEVATION 9.18 M (A.D.)
RIGHT BANK ELEVATION 4.98 M (A.D.), DRAINAGE AREA 79 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.55	1.68	3.50	2.95	2.22	2.04	0.94	0.60	0.40	0.24	0.18	
2	0.45	1.77	1.59	2.62	2.51	2.84	1.77	0.94	0.55	0.45	0.24	0.18	
3	0.50	1.01	2.04	2.40	2.31	2.62	1.68	0.87	0.55	0.40	0.24	0.15	
4	0.55	1.43	3.39	2.22	2.31	3.06	1.59	0.87	0.55	0.40	0.24	0.15	
5	0.75	1.15	3.06	2.22	1.86	3.06	1.50	0.87	0.55	0.40	0.24	0.24	
6	0.60	1.29	3.17	2.73	2.22	2.62	1.59	0.80	0.55	0.40	0.24	0.21	
7	0.55	1.08	2.04	2.04	1.95	17.10	3.78	0.80	0.55	0.40	0.24	0.18	
8	0.60	0.87	1.77	1.86	1.95	6.55	5.20	0.80	0.55	0.40	0.24	0.15	
9	0.60	1.15	1.59	1.68	2.73	7.30	3.39	0.80	0.50	0.40	0.24	0.15	
10	0.60	1.77	1.59	1.86	2.22	5.50	2.40	0.80	0.50	0.40	0.21	0.21	
11	0.60	0.87	2.13	1.50	2.04	4.62	2.04	0.80	0.50	0.35	0.18	0.21	
12	0.60	0.87	6.25	1.29	1.95	4.76	1.86	0.75	0.50	0.35	0.18	0.18	
13	0.55	1.59	2.95	1.22	1.86	4.06	1.68	0.75	0.50	0.35	0.18	0.18	
14	0.55	1.01	2.73	1.08	1.86	4.76	1.59	0.70	0.50	0.35	0.18	0.18	
15	0.55	0.87	3.17	1.15	1.86	6.55	1.50	0.70	0.50	0.30	0.18	0.15	
16	0.55	0.87	15.48	1.77	1.77	4.76	1.43	0.70	0.45	0.30	0.15	0.15	
17	0.55	1.01	5.50	1.43	1.68	14.06	1.36	0.70	0.45	0.35	0.15	0.15	
18	0.75	0.80	3.64	1.50	4.06	49.20	1.29	0.70	0.45	0.35	0.15	0.12	
19	0.55	0.75	3.78	1.43	2.31	10.36	1.22	0.65	0.45	0.35	0.15	0.12	
20	0.50	1.77	12.87	1.29	4.62	6.85	1.15	0.65	0.40	0.35	0.15	0.12	
21	0.50	8.35	11.17	1.22	3.50	5.05	1.15	0.65	0.40	0.35	0.15	0.09	
22	0.55	11.51	5.05	1.86	2.73	6.55	1.08	0.65	0.40	0.35	0.15	0.09	
23	0.55	4.34	10.20	1.68	2.62	4.90	1.08	0.65	0.40	0.35	0.15	0.06	
24	0.55	2.62	10.36	1.36	2.73	4.48	1.01	0.65	0.40	0.30	0.15	0.06	
25	0.55	2.04	10.20	1.77	3.06	3.28	1.01	0.65	0.40	0.30	0.15	0.06	
26	0.55	1.68	4.62	3.17	2.95	2.84	1.01	0.65	0.40	0.30	0.15	0.06	
27	0.55	14.06	3.64	5.80	2.31	2.51	1.01	0.65	0.40	0.30	0.18	0.03	
28	0.50	5.05	3.39	11.17	2.04	2.31	0.94	0.60	0.40	0.27	0.18	0.03	
29	0.50	3.39	3.06	4.76	1.86	2.62	0.94	0.60	0.35	0.27		0.06	
30	0.50	2.40	2.95	4.48	2.62	2.04	1.15	0.60	0.35	0.27		0.55	
31		1.95		3.64	2.22		1.01		0.40	0.27		1.29	
TOTAL	16.85	79.87	145.06	77.70	75.66	199.43	51.45	21.94	14.45	10.78	5.28	5.74	704.21 CMSDAY
MEAN	0.56	2.58	4.84	2.51	2.44	6.65	1.66	0.73	0.47	0.35	0.19	0.19	1.93 CMS
MAX	0.75	14.06	15.48	11.17	4.62	49.20	5.20	0.94	0.60	0.45	0.24	1.29	49.20 CMS
MIN	0.45	0.55	1.59	1.08	1.68	2.04	0.94	0.60	0.35	0.27	0.15	0.03	0.03 CMS
RUNOFF	1.456	6.901	12.533	6.713	6.537	17.231	4.445	1.896	1.248	0.931	0.456	0.496	60.844 MCM

MOMENTARY PEAK 154.90 CMS, AT 6.19 M (A.D), AT 1.00 HOURS, ON SEP 18, 1980
RUNOFF YIELD 24.42 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1960.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT KOSUM PHISAI, MAHA SARAKHAM (E.1)

LOCATION — LAT. 16°-15'-02" N., LONG. 103°-04'-25" E., ON RIGHT BANK AT WAT TAI KOSUM ABOUT 800 METERS NORTH-EAST OF AMPHOE KOSUM PHISAI OFFICE, MAHA SARAKHAM.

DRAINAGE AREA — 29,788 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +136.64 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 5 METERS FROM THE GAGE SITE.

ELEVATION — +149.116 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1936-1943, 1951 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1973

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

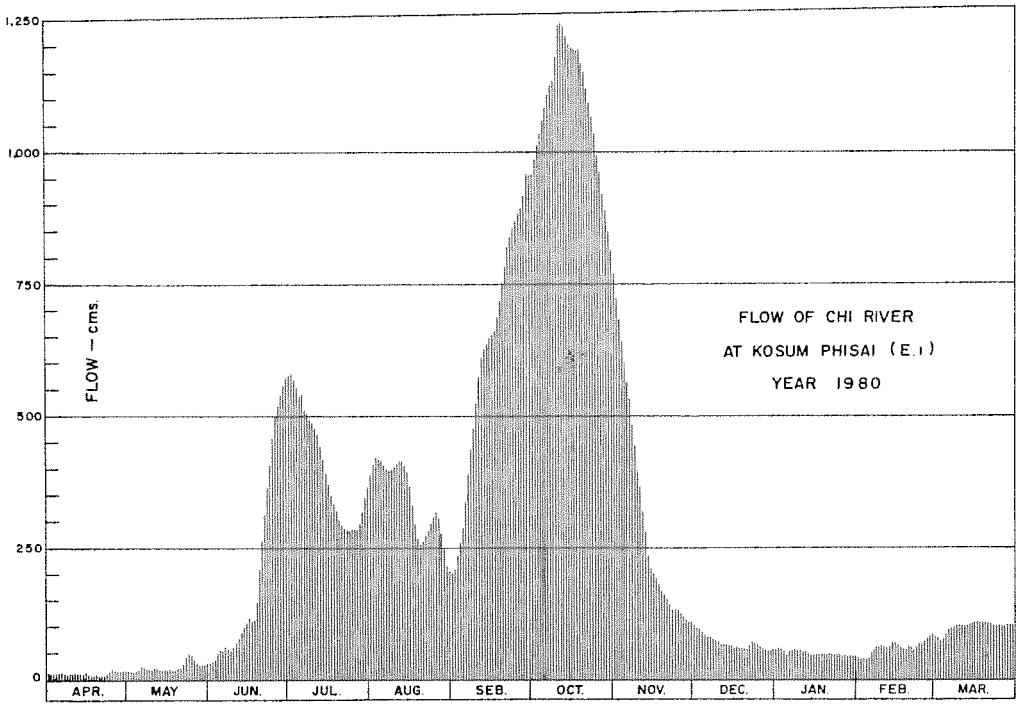
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +147.17 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 302 DISCHARGE MEASUREMENTS MADE DURING 1965-1973. FLOW REGULATED BY NAM PHONG DAM AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	136.99	137.09	137.66	144.67	142.86	140.49	146.40	145.62	138.92	138.14	137.81	138.64	
2	136.99	137.14	137.72	144.69	143.02	140.60	146.46	145.48	138.83	138.20	137.80	138.64	
3	136.98	137.12	137.88	144.59	143.12	141.01	146.53	145.28	138.82	138.11	137.80	138.51	
4	137.00	137.10	138.18	144.47	143.10	141.37	146.61	145.03	138.77	138.02	137.78	138.44	
5	137.04	137.26	138.19	144.37	143.05	141.71	146.70	144.84	138.70	137.98	137.85	138.66	
6	137.02	137.40	138.18	144.37	142.91	142.19	146.79	144.38	138.62	138.10	138.12	138.80	
7	136.99	137.30	138.22	144.07	142.88	142.89	146.88	143.86	138.58	138.11	138.19	138.88	
8	136.99	137.24	138.16	143.97	142.88	143.55	146.92	143.44	138.49	138.10	138.23	138.92	
9	136.99	137.26	138.17	143.89	142.90	144.17	146.95	143.12	138.47	138.07	138.27	138.96	
10	136.98	137.33	138.27	143.81	142.96	144.51	147.08	142.66	138.44	138.04	138.26	138.97	
11	136.96	137.35	138.46	143.71	143.07	144.68	147.22	142.18	138.39	138.04	138.21	138.97	
12	136.96	137.30	138.62	143.55	143.09	144.91	147.29	141.67	138.35	138.01	138.23	138.98	
13	136.99	137.24	138.85	143.33	143.06	145.01	147.27	141.26	138.32	138.00	138.32	138.99	
14	137.00	137.22	139.02	143.05	142.93	145.11	147.22	140.89	138.33	137.93	138.36	139.00	
15	136.97	137.28	139.15	142.82	142.75	145.13	147.16	140.67	138.28	137.94	138.34	139.04	
16	136.90	137.25	139.29	142.56	142.40	145.16	147.14	140.46	138.24	137.94	138.31	139.07	
17	136.87	137.20	139.19	142.34	142.05	145.22	147.13	140.23	138.23	137.96	138.22	139.08	
18	136.84	137.24	139.27	142.14	141.65	145.36	147.13	140.12	138.22	137.95	138.11	139.09	
19	136.82	137.34	140.20	142.02	141.28	145.54	147.11	139.99	138.24	137.96	138.19	139.08	
20	136.82	137.38	140.97	141.87	141.16	145.68	147.04	139.87	138.25	137.96	138.29	139.08	
21	136.86	137.37	141.60	141.70	141.27	145.80	146.96	139.80	138.27	137.96	138.17	139.06	
22	136.91	137.63	142.18	141.62	141.40	145.91	146.87	139.54	138.35	137.99	138.10	139.06	
23	136.97	137.86	142.63	141.59	141.50	145.99	146.79	139.44	138.40	137.97	138.34	139.04	
24	137.10	137.98	143.12	141.59	141.63	146.04	146.67	139.50	138.36	137.96	138.34	139.02	
25	137.17	137.89	143.58	141.59	141.88	146.10	146.57	139.44	138.27	137.94	138.34	139.01	
26	137.17	137.73	143.95	141.58	141.96	146.12	146.43	139.38	138.18	137.93	138.52	139.01	
27	137.18	137.53	144.18	141.62	141.74	146.17	146.34	139.23	138.15	137.92	138.60	139.02	
28	137.19	137.49	144.44	141.79	141.30	146.21	146.24	139.17	138.13	137.92	138.64	139.03	
29	137.19	137.51	144.56	142.03	140.93	146.39	146.11	139.13	138.14	137.91		139.04	
30	137.16	137.55	144.62	142.36	140.65	146.38	145.95	139.07	138.13	137.91		139.03	
31		137.61		142.66	140.56		145.82		138.14	137.86		139.04	
MEAN	137.00	137.39	140.28	142.92	142.19	144.51	146.77	141.49	138.39	137.99	138.20	138.94	
MAX	137.19	137.98	144.62	144.69	143.12	146.39	147.29	145.62	138.92	138.20	138.64	139.09	147.29
MIN	136.82	137.09	137.66	141.58	140.56	140.49	145.82	139.07	138.13	137.86	137.78	138.44	136.32

ANNUAL MAX MOMENTARY GAGE HEIGHT 147.29 M (MSL), AT 17.00 HOURS, ON OCT 12, 1980
ZERO GAGE AT BOTTOM ELEVATION 136.64 M (MSL), RIVER BED 136.40 M (MSL)
LEFT BANK ELEVATION 147.17 M (MSL)
RIGHT BANK ELEVATION 149.20 M (MSL), DRAINAGE AREA 29788 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.7	14.7	34.4	578.1	397.4	202.3	962.0	750.8	98.2	57.0	40.5	82.2	
2	11.7	16.2	36.8	580.7	411.8	210.0	980.0	719.6	92.8	60.0	40.0	82.2	
3	11.4	15.6	44.0	567.7	420.8	241.8	1001.6	678.0	92.2	55.5	40.0	75.5	
4	12.0	15.0	59.0	552.4	419.0	270.6	1027.2	632.8	89.3	51.0	39.2	72.0	
5	13.2	19.8	59.5	541.0	414.5	297.8	1056.0	602.4	85.5	49.0	42.5	83.3	
6	12.6	24.5	59.0	541.0	401.9	338.1	1084.8	542.0	81.1	55.0	56.0	91.0	
7	11.7	21.0	61.0	511.0	399.2	400.1	1113.6	490.0	79.0	55.5	59.5	95.8	
8	11.7	19.2	58.0	501.0	399.2	459.7	1126.4	449.6	74.5	55.0	61.5	98.2	
9	11.7	19.8	58.5	493.0	401.0	521.0	1136.0	420.8	73.5	53.5	63.5	100.6	
10	11.4	22.0	63.5	485.0	406.4	557.3	1177.6	379.4	72.0	52.0	63.0	101.2	
11	10.8	22.7	73.0	475.0	416.3	579.4	1222.4	337.3	69.5	52.0	60.5	101.2	
12	10.8	21.0	81.1	459.7	418.1	613.6	1244.8	294.6	67.5	50.5	61.5	101.8	
13	11.7	19.2	94.0	439.7	415.4	629.6	1238.4	261.8	66.0	50.0	66.0	102.4	
14	12.0	18.6	104.2	414.5	403.7	645.8	1222.4	232.2	66.5	46.5	68.0	103.0	
15	11.1	20.4	112.0	393.8	387.5	649.4	1203.2	214.9	64.0	47.0	67.0	105.4	
16	9.0	19.5	120.4	370.4	356.0	654.8	1196.8	200.2	62.0	47.0	65.5	107.2	
17	8.2	18.0	114.4	350.9	326.2	666.0	1193.6	184.1	61.5	48.0	61.0	107.8	
18	7.5	19.2	119.2	333.9	293.0	694.0	1193.6	176.4	61.0	47.5	55.5	108.4	
19	7.0	22.4	182.0	323.7	263.4	732.8	1187.2	167.3	62.0	48.0	59.5	107.8	
20	7.0	23.8	238.6	310.9	253.8	765.2	1164.8	158.9	62.5	48.0	64.5	107.8	
21	8.0	23.4	289.0	297.0	262.6	796.0	1139.2	154.0	63.5	48.0	58.5	106.6	
22	9.3	33.2	337.3	290.6	273.0	824.6	1110.4	136.6	67.5	49.5	55.0	106.6	
23	11.1	43.0	376.7	288.2	281.0	845.4	1084.8	130.1	70.0	48.5	67.0	105.4	
24	15.0	49.0	420.8	288.2	291.4	859.2	1046.4	134.0	68.0	48.0	67.0	104.2	
25	17.1	44.5	462.6	288.2	311.8	876.0	1014.4	130.1	63.5	47.0	67.0	103.6	
26	17.1	37.2	499.0	287.4	318.6	881.6	971.0	126.2	59.0	46.5	76.0	103.6	
27	17.4	29.2	522.0	290.6	300.2	895.6	944.0	116.8	57.5	46.0	80.0	104.2	
28	17.7	27.6	548.8	304.2	265.0	906.8	915.2	113.2	56.5	46.0	82.2	104.8	
29	17.7	28.4	563.8	324.5	235.4	959.0	878.8	110.8	57.0	45.5		105.4	
30	16.8	30.0	571.6	352.6	213.5	956.0	835.0	107.2	56.5	45.5		104.8	
31		32.4		379.4	207.2		801.2		57.0	43.0		105.4	
TOTAL	361.4	770.5	6364.2	12614.3	10564.3	18929.5	33472.8	9152.1	2156.6	1541.5	1687.4	3089.4	100703.9 CMSDAY
MEAN	12.0	24.9	212.1	406.9	340.8	631.0	1079.8	305.1	69.6	49.7	60.3	99.7	275.9 CMS
MAX	17.7	49.0	571.6	580.7	420.8	959.0	1244.8	750.8	98.2	60.0	82.2	108.4	1244.8 CMS
MIN	7.0	14.7	34.4	287.4	207.2	202.3	801.2	107.2	56.5	43.0	39.2	72.0	7.0 CMS
RUNOFF	31.22	66.57	549.87	1089.87	912.75	1635.51	2892.05	790.74	186.33	133.19	145.79	266.92	8700.81 MCM

MOMENTARY PEAK 1244.80 CMS, AT 147.29 M (MSL), AT 17.00 HOURS, ON OCT 12, 1980

RUNOFF YIELD 9.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 41.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT YASOTHON, YASOTHON (E.2)

LOCATION — LAT. 15°-47'-06" N., LONG. 104°-08'-36" E., ON LEFT BANK ABOUT 1.5 KILOMETERS SOUTH OF AMPHOE MUANG OFFICE, YASOTHON.

DRAINAGE AREA — 47,391 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +117.00 M. (M.S.L.)

BENCH MARK — B.M.=ARMY SURVEY DEPARTMENT

LOCATION — ABOUT 15 METERS EAST OF THE POST OFFICE.

ELEVATION — +126.972 M. (M.S.L.)

GAGE READING FREQUENCY — 3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1951 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1951

RATED BY FLOAT — -

RATED BY CURRENT METER — 1951

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

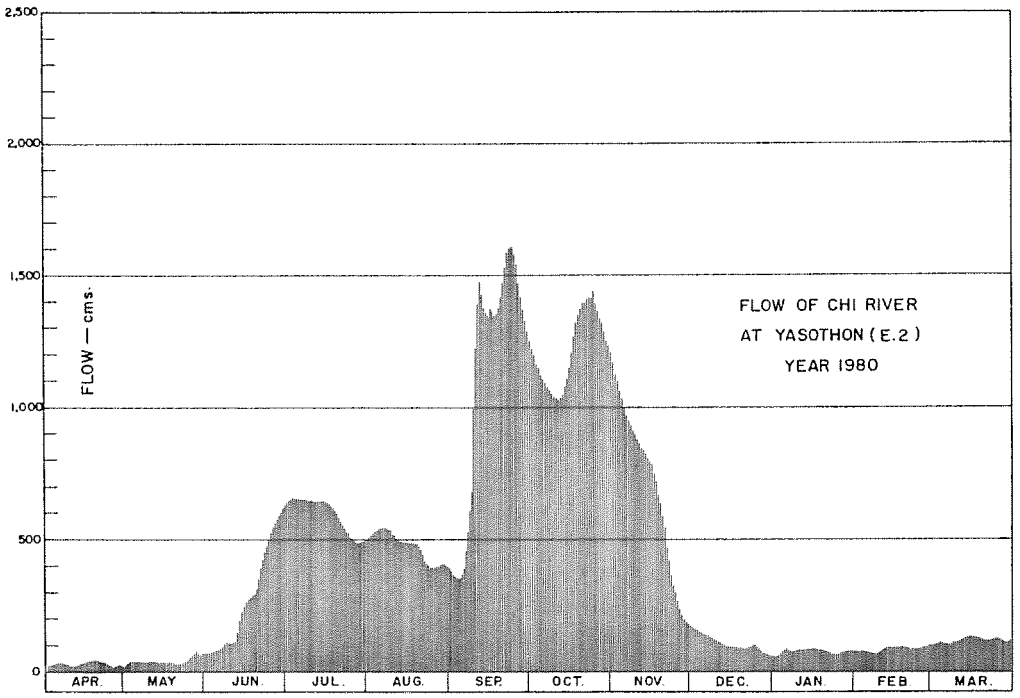
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +126.02 M.(M.S.L.). RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 194 DISCHARGE MEASUREMENTS MADE IN 1951. FLOW REGULATED BY NAM PHONG DAM AND LAMPAO DAM AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	118.80	119.12	119.81	124.87	124.07	123.12	126.40	126.34	121.10	119.63	119.91	120.20	
2	118.83	119.15	119.84	124.90	124.12	122.99	126.36	126.29	121.02	119.66	119.89	120.24	
3	118.86	119.19	119.90	124.93	124.17	122.88	126.34	126.23	120.95	119.80	119.88	120.29	
4	118.95	119.21	119.95	124.95	124.22	122.84	126.30	126.17	120.87	119.90	119.88	120.31	
5	119.08	119.18	119.97	124.95	124.24	122.90	126.26	126.10	120.84	119.99	119.86	120.31	
6	119.09	119.17	120.07	124.94	124.26	123.15	126.23	126.05	120.79	120.01	119.85	120.29	
7	119.09	119.17	120.24	124.93	124.30	123.64	126.21	125.99	120.72	119.98	119.84	120.26	
8	119.09	119.16	120.33	124.92	124.29	124.35	126.19	125.93	120.64	119.94	119.84	120.27	
9	118.96	119.18	120.36	124.91	124.22	125.14	126.16	125.88	120.55	119.98	119.91	120.32	
10	118.84	119.23	120.36	124.90	124.15	126.09	126.14	125.83	120.45	119.98	119.97	120.37	
11	118.77	119.23	120.34	124.89	124.06	126.52	126.12	125.78	120.38	120.01	120.03	120.44	
12	118.90	119.22	120.66	124.89	123.98	126.61	126.12	125.73	120.32	120.05	120.07	120.50	
13	119.02	119.21	121.18	124.88	123.93	126.57	126.13	125.68	120.26	120.06	120.09	120.56	
14	119.10	119.22	121.60	124.88	123.89	126.52	126.17	125.62	120.21	120.07	120.08	120.62	
15	119.14	119.24	121.88	124.87	123.89	126.51	126.23	125.56	120.20	120.07	120.08	120.63	
16	119.21	119.25	122.05	124.85	123.89	126.53	126.31	125.50	120.20	120.05	120.09	120.60	
17	119.23	119.25	122.15	124.81	123.88	126.52	126.40	125.40	120.18	120.00	120.13	120.57	
18	119.23	119.22	122.19	124.79	123.87	126.51	126.46	125.26	120.16	120.00	120.13	120.53	
19	119.24	119.11	122.29	124.70	123.82	126.54	126.50	125.04	120.13	120.01	120.12	120.52	
20	119.25	119.01	122.64	124.62	123.75	126.58	126.53	124.68	120.12	120.01	120.10	120.49	
21	119.23	119.02	123.00	124.50	123.61	126.64	126.55	124.20	120.10	120.01	120.06	120.45	
22	119.23	119.09	123.43	124.38	123.46	126.70	126.55	123.70	120.08	119.96	120.05	120.42	
23	119.16	119.25	123.73	124.26	123.34	126.72	126.57	123.20	120.11	119.86	120.05	120.45	
24	119.04	119.41	123.97	124.15	123.23	126.73	126.57	122.73	120.17	119.82	120.05	120.47	
25	118.84	119.49	124.14	124.06	123.20	126.72	126.58	122.28	120.21	119.77	120.07	120.49	
26	118.70	119.66	124.28	123.93	123.19	126.68	126.54	121.85	120.10	119.77	120.10	120.49	
27	118.67	119.82	124.43	123.88	123.22	126.61	126.52	121.61	119.92	119.87	120.12	120.41	
28	118.83	119.78	124.57	123.89	123.26	126.55	126.49	121.40	119.81	119.93	120.15	120.30	
29	119.01	119.68	124.67	123.91	123.30	126.50	126.46	121.25	119.74	119.93		120.28	
30	119.08	119.73	124.78	123.95	123.31	126.44	126.43	121.17	119.69	119.93		120.37	
31		119.79		124.01	123.22		126.39		119.65	119.92		120.45	
MEAN	119.02	119.30	121.96	124.59	123.79	125.63	126.36	124.61	120.31	119.93	120.01	120.42	
MAX	119.25	119.82	124.78	124.95	124.30	126.73	126.58	126.34	121.10	120.07	120.15	120.63	126.73
MIN	118.67	119.01	119.81	123.88	123.19	122.84	126.12	121.17	119.65	119.63	119.84	120.20	118.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 126.74 M (MSL), AT 18.00 HOURS, ON SEP 24, 1980
ZERO GAGE AT BOTTOM ELEVATION 117.00 M (MSL), RIVER BED 117.86 M (MSL)
LEFT BANK ELEVATION 126.02 M (MSL)
RIGHT BANK ELEVATION 126.20 M (MSL), DRAINAGE AREA 47391 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	18.2	30.1	68.7	641.6	512.5	385.4	1237.5	1182.0	172.0	56.8	75.7	96.0	
2	19.2	31.3	70.8	647.0	520.0	369.8	1200.5	1137.9	164.8	58.6	74.3	99.2	
3	20.2	33.1	75.0	652.7	527.5	356.6	1182.0	1095.3	158.5	68.0	73.6	103.2	
4	23.4	34.0	78.5	656.5	535.0	351.8	1145.0	1056.0	151.3	75.0	73.6	104.8	
5	28.4	32.6	79.9	656.5	538.0	359.0	1116.6	1014.0	148.6	81.3	72.2	104.8	
6	28.8	32.2	86.9	654.6	541.0	389.0	1095.3	989.5	144.1	82.7	71.5	103.2	
7	28.8	32.2	99.2	652.7	547.0	452.2	1081.1	960.1	137.8	80.6	70.8	100.8	
8	28.8	31.8	106.4	650.8	545.5	554.5	1068.0	930.7	131.2	77.8	70.8	101.6	
9	23.8	32.6	108.8	648.9	535.0	694.8	1050.0	908.0	124.0	80.6	75.7	105.6	
10	19.6	34.9	108.8	647.0	524.5	1009.1	1038.0	888.0	116.0	80.6	79.9	109.6	
11	17.3	34.9	107.2	645.2	511.0	1354.0	1026.0	869.2	110.4	82.7	84.1	115.2	
12	21.6	34.4	132.8	645.2	499.2	1462.0	1026.0	852.2	105.6	85.5	86.9	120.0	
13	26.1	34.0	179.2	643.4	492.2	1414.0	1032.0	836.0	100.8	86.2	88.3	124.8	
14	29.2	34.4	219.0	643.4	486.6	1354.0	1056.0	818.0	96.8	86.9	87.6	129.6	
15	30.9	35.4	247.0	641.6	486.6	1342.0	1095.3	800.8	96.0	86.9	87.6	130.4	
16	34.0	35.9	264.0	638.0	486.6	1366.0	1154.3	784.0	96.0	85.5	88.3	128.0	
17	34.9	35.9	274.5	630.8	485.2	1354.0	1237.5	756.0	94.6	82.0	91.1	125.6	
18	34.9	34.4	278.9	627.3	483.8	1342.0	1293.0	721.2	93.2	82.0	91.1	122.4	
19	35.4	29.6	289.9	612.0	476.8	1378.0	1330.0	674.0	91.1	82.7	90.4	121.6	
20	35.9	25.7	329.4	598.4	467.0	1426.0	1366.0	608.6	90.4	82.7	89.0	119.2	
21	34.9	26.1	371.0	578.0	448.3	1498.0	1390.0	532.0	89.0	82.7	86.2	116.0	
22	34.9	28.8	424.9	559.0	428.8	1570.0	1390.0	460.0	87.6	79.2	85.5	113.6	
23	31.8	35.9	464.2	541.0	413.2	1596.0	1414.0	395.0	89.7	72.2	85.5	116.0	
24	26.9	43.6	497.8	524.5	398.9	1609.0	1414.0	338.6	93.9	69.4	85.5	117.6	
25	19.6	48.4	523.0	511.0	395.0	1596.0	1426.0	288.8	96.8	65.9	86.9	119.2	
26	15.1	58.6	544.0	492.2	393.8	1546.0	1378.0	244.0	89.0	65.9	89.0	119.2	
27	14.2	69.4	566.8	485.2	397.6	1462.0	1354.0	220.0	76.4	72.9	90.4	112.8	
28	19.2	66.6	589.9	466.6	402.8	1390.0	1320.7	199.0	68.7	77.1	92.5	104.0	
29	25.7	59.8	606.9	489.4	408.0	1330.0	1293.0	185.5	63.8	77.1		102.4	
30	28.4	63.1	625.6	495.0	409.3	1274.5	1265.2	178.3	60.4	77.1		109.6	
31		67.3		503.5	397.6		1228.3		58.0	76.4		116.0	
TOTAL	790.1	1227.0	9418.0	18499.0	14694.3	33585.7	37703.3	20922.7	3296.5	2401.0	2324.0	3512.0	147373.4 CMSDAY
MEAN	26.3	39.6	280.6	596.7	474.0	1119.5	1216.2	697.4	106.3	77.5	83.0	113.3	403.8 CMS
MAX	35.9	69.4	625.6	656.5	547.0	1609.0	1426.0	1182.0	172.0	86.9	92.5	130.4	1609.0 CMS
MIN	14.2	25.7	68.7	485.2	393.8	351.8	1026.0	178.3	58.0	56.8	70.8	96.0	14.2 CMS
RUNOFF	68.26	106.01	727.31	1598.31	1269.59	2901.80	3257.56	1807.72	284.82	207.45	200.79	303.44	12733.06 MCM

MOMENTARY PEAK 1621.99 CMS, AT 126.74 M (MSL), AT 18.00 HOURS, ON SEP 24, 1980

RUNOFF YIELD 8.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 34.23 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER NEAR BAN NON PUAI, CHAIYAPHUM (E.5)

LOCATION — LAT. 15°-46'-07" N., LONG. 101°-49'-03" E., ON LEFT BANK NEAR BAN NON PUAI ABOUT 30 METERS DOWNSTREAM FROM BAN TA NGO, AMPHOE BAN KHWAO, CHAIYAPHUM.

DRAINAGE AREA — 4,254 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +186.07 M. (M.S.L.)

BENCH MARK — B.M.-E.5

LOCATION — INFRONT OF THE CAMP OF E.5 STATION.

ELEVATION — +197.543 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1958 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

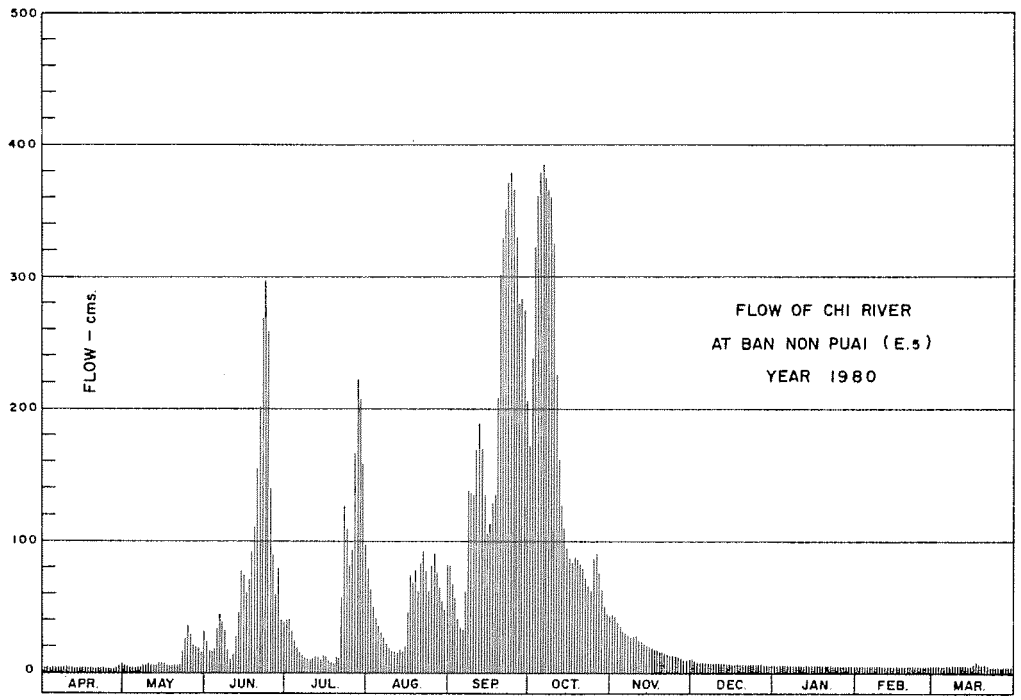
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 275 DISCHARGE MEASUREMENTS MADE IN 1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	186.72	187.02	188.36	189.13	190.51	190.57	193.27	189.27	187.64	187.18	186.99	187.02	
2	186.75	186.88	188.01	189.17	189.97	189.99	194.21	189.23	187.60	187.18	186.99	186.94	
3	186.83	186.86	188.02	188.83	189.51	189.47	195.93	189.05	187.57	187.16	186.98	186.90	
4	186.89	186.84	188.07	188.46	189.21	189.16	196.54	188.88	187.54	187.15	186.97	186.88	
5	186.91	186.82	188.95	188.17	188.96	188.93	196.71	188.77	187.52	187.14	186.96	186.87	
6	186.95	186.82	189.28	187.96	188.71	188.87	196.77	188.65	187.50	187.14	186.95	186.88	
7	186.88	186.94	189.02	187.86	188.50	190.14	196.71	188.59	187.48	187.14	186.95	186.88	
8	186.91	187.10	188.74	187.76	188.29	192.40	196.50	188.54	187.46	187.13	186.95	186.86	
9	186.89	187.05	188.00	187.71	188.14	192.41	196.46	188.57	187.44	187.12	186.94	186.84	
10	186.89	187.31	187.71	187.68	188.03	192.36	196.23	188.55	187.45	187.11	186.94	186.85	
11	186.84	187.20	187.85	187.76	187.96	193.32	195.12	188.43	187.43	187.11	186.93	186.88	
12	186.79	187.05	188.27	187.80	187.95	193.64	193.37	188.35	187.40	187.10	186.93	186.89	
13	186.76	187.05	189.30	187.81	188.08	193.37	192.16	188.29	187.38	187.09	186.92	186.88	
14	186.75	187.43	190.44	187.70	188.03	192.34	191.52	188.23	187.35	187.08	186.91	186.96	
15	186.77	187.35	190.33	187.65	188.24	191.47	191.16	188.16	187.35	187.07	186.91	186.99	
16	186.75	187.21	189.87	187.83	189.35	191.76	190.80	188.11	187.34	187.07	186.91	187.14	
17	136.75	187.19	190.23	187.66	190.35	192.20	190.69	188.05	187.33	187.07	186.91	187.28	
18	186.73	187.15	191.11	187.55	190.12	192.38	190.79	188.01	187.32	187.06	186.89	187.07	
19	186.71	187.13	191.71	187.52	190.47	194.13	190.75	187.98	187.31	187.05	186.88	186.95	
20	186.72	187.13	192.99	187.60	189.92	195.66	190.67	187.95	187.30	187.04	186.87	186.90	
21	186.71	187.19	194.03	187.74	190.69	196.11	190.50	187.93	187.28	187.04	186.87	186.85	
22	186.70	187.41	195.09	190.02	190.94	196.38	190.21	187.88	187.27	187.04	186.87	186.83	
23	186.69	187.90	195.64	192.13	190.49	196.59	189.96	187.84	187.26	187.03	186.86	186.80	
24	186.65	188.45	194.97	191.47	189.87	196.69	189.89	187.81	187.25	187.02	186.87	186.79	
25	186.67	188.91	192.42	190.63	190.61	196.65	190.72	187.78	187.24	187.02	186.86	186.78	
26	186.67	188.63	190.50	191.06	190.92	196.29	190.88	187.75	187.23	187.01	186.85	186.76	
27	186.65	188.15	189.83	193.25	190.45	195.36	190.38	187.70	187.21	187.01	186.85	186.75	
28	186.70	188.12	190.50	194.46	190.05	195.41	189.90	187.68	187.20	187.01	186.84	186.75	
29	187.19	188.08	189.16	194.04	189.50	195.27	189.52	187.68	187.20	187.00		186.74	
30	187.39	188.31	189.07	192.69	189.31	194.19	189.30	187.65	187.19	187.00		186.74	
31		188.71		191.41	190.61		189.22		187.18	186.99		186.74	
MEAN	186.81	187.46	190.25	189.31	189.48	193.12	192.48	188.25	187.36	187.08	186.91	186.88	
MAX	187.39	188.91	195.64	194.46	190.94	196.69	196.77	189.27	187.64	187.18	186.99	187.28	196.77
MIN	186.65	186.82	187.71	187.52	187.95	188.87	189.22	187.65	187.18	186.99	186.84	186.74	186.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 196.78 M (MSL), AT 24.00 HOURS, ON OCT 6, 1980
ZERO GAGE AT BOTTOM ELEVATION 186.07 M (MSL), RIVER BED 185.76 M (MSL)
LEFT BANK ELEVATION 197.30 M (MSL)
RIGHT BANK ELEVATION 197.80 M (MSL), DRAINAGE AREA 4254 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.05	5.74	24.20	40.64	79.28	80.96	173.14	44.56	9.80	6.64	5.57	5.74	
2	4.22	4.95	17.20	41.76	64.16	64.72	214.50	43.44	9.00	6.64	5.57	5.29	
3	4.67	4.84	17.40	33.60	51.28	50.16	317.40	38.40	8.83	6.52	5.51	5.06	
4	5.01	4.72	18.40	26.20	42.88	41.48	366.20	34.60	8.66	6.47	5.46	4.95	
5	5.12	4.61	36.00	20.40	36.20	35.60	379.80	32.40	8.55	6.41	5.40	4.89	
6	5.34	4.61	44.84	16.20	31.20	34.40	384.60	30.00	8.44	6.41	5.34	4.95	
7	4.95	5.29	37.56	14.20	27.00	68.92	379.80	28.80	8.32	6.41	5.34	4.95	
8	5.12	6.19	31.80	12.20	22.80	137.42	363.00	27.80	8.21	6.36	5.34	4.84	
9	5.01	5.91	17.00	11.20	19.80	137.83	359.80	28.40	8.10	6.30	5.29	4.72	
10	5.01	7.37	11.20	10.60	17.60	135.78	341.40	28.00	8.16	6.24	5.29	4.78	
11	4.72	6.75	14.00	12.20	16.20	175.19	266.20	25.60	8.04	6.24	5.23	4.95	
12	4.44	5.91	22.40	13.00	16.00	188.32	177.24	24.00	7.87	6.19	5.23	5.01	
13	4.27	5.91	45.40	13.20	18.60	177.24	127.57	22.80	7.76	6.13	5.17	4.95	
14	4.22	8.04	77.32	11.00	17.60	134.96	107.56	21.60	7.59	6.07	5.12	5.40	
15	4.33	7.59	74.24	10.00	21.80	106.16	97.48	20.20	7.59	6.02	5.12	5.57	
16	4.22	6.81	61.36	13.60	46.80	114.28	87.40	19.20	7.54	6.02	5.12	6.41	
17	4.22	6.69	71.44	10.20	74.80	129.21	84.32	18.00	7.48	6.02	5.12	7.20	
18	4.11	6.47	96.08	8.72	68.36	136.60	87.12	17.20	7.42	5.96	5.01	6.02	
19	3.99	6.36	112.88	8.55	78.16	210.50	86.00	16.60	7.37	5.91	4.95	5.34	
20	4.05	6.36	161.64	9.00	62.76	298.60	83.76	16.00	7.31	5.85	4.89	5.06	
21	3.99	6.69	205.50	11.80	84.32	331.80	79.00	15.60	7.20	5.85	4.89	4.78	
22	3.94	7.93	264.40	65.56	91.32	353.40	70.88	14.60	7.14	5.85	4.89	4.67	
23	3.88	15.00	297.40	126.34	78.72	370.20	63.88	13.80	7.09	5.79	4.84	4.50	
24	3.66	26.00	257.20	106.16	61.36	378.20	61.92	13.20	7.03	5.74	4.89	4.44	
25	3.77	35.20	138.24	82.64	82.08	375.00	85.16	12.60	6.97	5.74	4.84	4.39	
26	3.77	29.60	79.00	94.68	90.76	346.20	89.64	12.00	6.92	5.68	4.78	4.27	
27	3.66	20.00	60.24	172.31	77.60	280.60	75.64	11.00	6.81	5.68	4.78	4.22	
28	3.94	19.40	79.00	227.00	66.40	283.60	62.20	10.60	6.75	5.68	4.72	4.22	
29	6.69	18.60	41.48	206.00	51.00	275.20	51.56	10.60	6.75	5.62		4.16	
30	7.82	23.20	38.96	149.33	45.68	213.50	45.40	10.00	6.69	5.62		4.16	
31		31.20		104.48	82.08		43.16		6.64	5.57		4.16	
TOTAL	136.19	353.94	2453.78	1682.77	1624.60	5666.03	5212.72	661.60	238.03	187.63	143.70	154.05	18515.02 CMSDAY
MEAN	4.54	11.42	81.79	54.28	52.41	188.87	168.15	22.05	7.68	6.05	5.13	4.97	50.73 CMS
MAX	7.82	35.20	297.40	227.00	91.32	378.20	384.60	44.56	9.80	6.64	5.57	7.20	384.60 CMS
MIN	3.66	4.61	11.20	8.55	16.00	34.40	43.16	10.00	6.64	5.57	4.72	4.16	3.66 CMS
RUNOFF	11.767	30.580	212.006	145.391	140.365	489.545	450.379	57.162	20.566	16.211	12.416	13.310	1599.698 MCM

MOMENTARY PEAK 385.40 CMS, AT 196.78 M (MSL), AT 24.00 HOURS, ON OCT 6, 1980

RUNOFF YIELD 11.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 90.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

HUAI TAT TON AT BAN TAT TON, CHAIYAPHUM (E.6C)

LOCATION — LAT. 15°-57'-30" N., LONG. 102°-01'-57" E., ON RIGHT BANK ABOUT 5 KILOMETERS UPSTREAM FROM E.6A STATION AT BAN TAT TON, AMPHOE MUANG, CHAIYAPHUM.

DRAINAGE AREA — 300 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +7.303 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 167 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

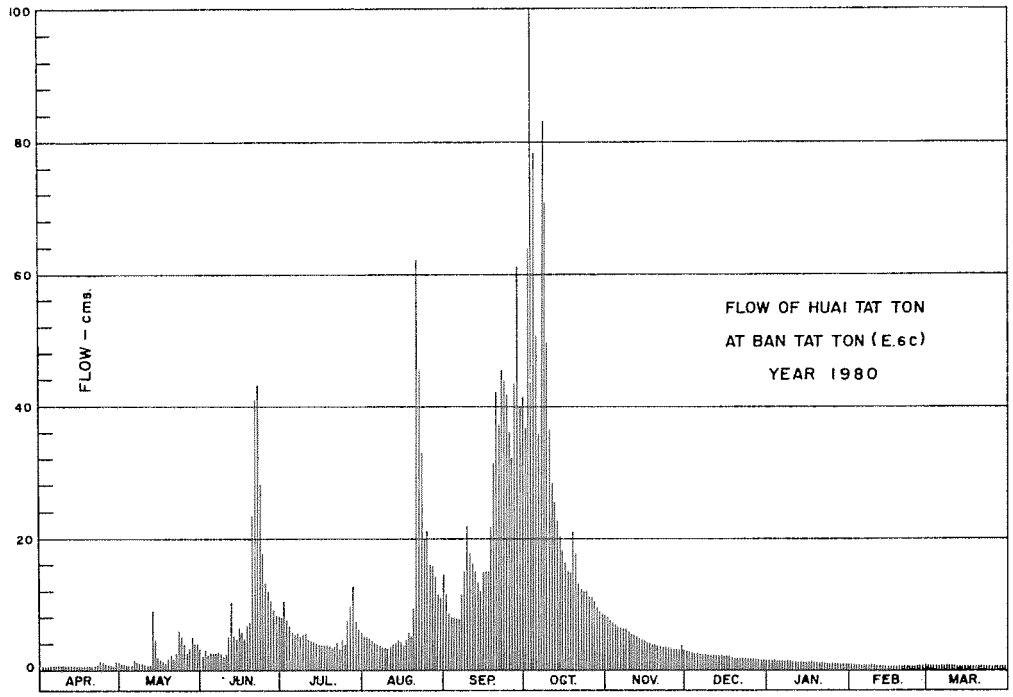
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.91	0.95	1.18	1.76	1.52	2.08	4.04	1.84	1.28	1.10	0.99	0.97	
2	0.90	0.94	1.28	2.04	1.48	1.91	4.92	1.76	1.27	1.10	0.99	0.95	
3	0.90	0.93	1.18	1.75	1.45	1.87	5.55	1.72	1.26	1.09	0.98	0.95	
4	0.90	0.92	1.24	1.64	1.42	1.85	5.10	1.68	1.25	1.08	0.98	0.94	
5	0.90	0.91	1.22	1.58	1.40	1.81	4.41	1.67	1.24	1.08	0.98	0.94	
6	0.91	1.06	1.23	1.54	1.38	1.87	4.00	1.64	1.23	1.07	0.98	0.96	
7	0.90	1.02	1.25	1.56	1.37	2.28	5.14	1.62	1.23	1.07	0.98	0.95	
8	0.90	1.01	1.20	1.51	1.35	2.45	5.26	1.61	1.22	1.07	0.97	0.94	
9	0.90	0.98	1.17	1.55	1.32	3.02	4.60	1.59	1.21	1.06	0.97	0.93	
10	0.90	0.98	1.36	1.56	1.36	2.64	3.94	1.55	1.20	1.06	0.96	0.93	
11	0.91	0.96	1.60	1.48	1.39	2.54	3.58	1.53	1.20	1.05	0.96	0.93	
12	0.91	0.95	2.02	1.45	1.42	2.52	3.26	1.51	1.20	1.05	0.96	0.96	
13	0.91	1.89	1.51	1.41	1.42	2.28	3.14	1.49	1.20	1.05	0.96	0.96	
14	0.91	1.29	1.47	1.39	1.42	2.19	2.91	1.47	1.19	1.04	0.96	0.95	
15	0.93	1.11	1.63	1.39	1.40	2.49	2.72	1.45	1.18	1.04	0.96	0.93	
16	0.92	1.06	1.59	1.37	1.47	2.50	2.58	1.44	1.17	1.04	0.95	0.92	
17	0.94	1.04	1.48	1.36	1.56	2.47	2.50	1.43	1.17	1.04	0.95	0.92	
18	0.93	1.03	1.71	1.35	1.49	2.72	2.48	1.41	1.16	1.03	0.95	0.92	
19	0.91	1.16	1.73	1.36	2.17	3.75	2.95	1.40	1.15	1.03	0.95	0.92	
20	0.90	1.16	3.42	1.33	4.86	4.27	2.64	1.39	1.15	1.03	0.95	0.91	
21	0.90	1.12	4.23	1.36	4.52	4.06	2.32	1.37	1.15	1.02	0.95	0.90	
22	0.94	1.38	4.31	1.40	3.87	4.39	2.21	1.36	1.14	1.02	0.95	0.90	
23	1.04	1.58	3.43	1.37	2.91	4.35	2.21	1.36	1.13	1.01	0.95	0.90	
24	0.98	1.52	2.57	1.46	2.98	4.29	2.22	1.35	1.12	1.01	0.95	0.89	
25	0.96	1.33	2.27	1.37	2.55	4.10	2.11	1.34	1.12	1.01	0.95	0.89	
26	0.94	1.24	2.12	1.89	2.53	3.79	2.09	1.33	1.12	1.01	0.95	0.89	
27	0.91	1.29	1.99	1.97	2.38	4.24	2.00	1.32	1.11	1.01	0.95	0.88	
28	0.88	1.48	1.87	2.24	2.14	4.85	1.95	1.31	1.11	1.00	0.96	0.88	
29	1.06	1.38	1.82	1.76	2.07	4.20	1.89	1.39	1.11	1.00		0.87	
30	1.02	1.39	1.83	1.63	2.30	4.24	1.85	1.29	1.11	1.00		0.94	
31		1.23		1.58	2.42		1.85		1.10	1.00		0.98	
MEAN	0.93	1.17	1.90	1.56	2.04	3.07	3.17	1.49	1.18	1.04	0.96	0.93	
MAX	1.06	1.89	4.31	2.24	4.86	4.85	5.55	1.84	1.28	1.10	0.99	0.98	5.55
MIN	0.88	0.91	1.17	1.33	1.32	1.81	1.85	1.29	1.10	1.00	0.95	0.87	0.87

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.63 M (A.D), AT 13.00 HOURS, ON OCT 3, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 6.97 M (A.D)

LEFT BANK ELEVATION — 7.59 M (A.D)

RIGHT BANK ELEVATION — 6.97 M (A.D), DRAINAGE AREA — 300 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.75	2.16	7.60	5.20	10.89	37.30	8.40	2.94	1.60	0.95	0.85	
2	0.50	0.70	2.94	10.44	4.80	9.10	64.90	7.60	2.86	1.60	0.95	0.75	
3	0.50	0.65	2.16	7.50	4.50	8.70	104.50	7.20	2.78	1.54	0.90	0.75	
4	0.50	0.60	2.62	6.40	4.20	8.50	73.50	6.80	2.70	1.48	0.90	0.70	
5	0.50	0.55	2.46	5.80	4.00	8.10	45.80	6.70	2.62	1.48	0.90	0.70	
6	0.55	1.36	2.54	5.40	3.82	8.70	36.50	6.40	2.54	1.42	0.90	0.80	
7	0.50	1.12	2.70	5.60	3.73	13.11	75.70	6.20	2.54	1.42	0.90	0.75	
8	0.50	1.06	2.30	5.10	3.55	15.01	82.90	6.10	2.46	1.42	0.85	0.70	
9	0.50	0.90	2.09	5.50	3.28	21.76	51.50	5.90	2.38	1.36	0.85	0.65	
10	0.50	0.90	3.64	5.60	3.64	17.12	35.30	5.50	2.30	1.36	0.80	0.65	
11	0.55	0.80	6.00	4.80	3.91	16.01	29.12	5.30	2.30	1.30	0.80	0.65	
12	0.55	0.75	10.22	4.50	4.20	15.78	24.88	5.10	2.30	1.30	0.80	0.80	
13	0.55	8.90	5.10	4.10	4.20	13.11	23.32	4.90	2.30	1.30	0.80	0.80	
14	0.55	3.02	4.70	3.91	4.20	12.11	20.33	4.70	2.23	1.24	0.80	0.75	
15	0.65	1.67	6.30	3.91	4.00	15.45	18.01	4.50	2.16	1.24	0.80	0.65	
16	0.60	1.36	5.90	3.73	4.70	15.56	16.45	4.40	2.09	1.24	0.75	0.60	
17	0.70	1.24	4.80	3.64	5.60	15.23	15.56	4.30	2.09	1.24	0.75	0.60	
18	0.65	1.18	7.10	3.55	4.90	18.01	15.34	4.10	2.02	1.18	0.75	0.60	
19	0.55	2.02	7.30	3.64	11.89	31.85	20.85	4.00	1.95	1.18	0.75	0.60	
20	0.50	2.02	26.96	3.37	62.20	42.11	17.12	3.91	1.95	1.18	0.75	0.55	
21	0.50	1.74	41.19	3.64	49.10	37.70	13.56	3.73	1.95	1.12	0.75	0.50	
22	0.70	3.82	43.07	4.00	33.96	45.23	12.34	3.64	1.88	1.12	0.75	0.50	
23	1.24	5.80	27.09	3.73	20.33	44.15	12.34	3.64	1.81	1.06	0.75	0.50	
24	0.90	5.20	16.34	4.60	21.24	42.57	12.45	3.55	1.74	1.06	0.75	0.45	
25	0.80	3.37	13.00	3.73	16.12	38.50	11.22	3.46	1.74	1.06	0.75	0.45	
26	0.70	2.62	11.33	8.90	15.90	32.53	11.00	3.37	1.74	1.06	0.75	0.45	
27	0.55	3.02	9.90	9.70	14.23	41.42	10.00	3.28	1.67	1.06	0.75	0.40	
28	0.40	4.80	8.70	12.67	11.56	61.75	9.50	3.19	1.67	1.00	0.80	0.40	
29	1.36	3.82	8.20	7.60	10.78	40.50	8.90	3.91	1.67	1.00		0.35	
30	1.12	3.91	8.30	6.30	13.34	41.42	8.50	3.02	1.67	1.00		0.70	
31		2.54		5.80	14.67		8.50		1.60	1.00		0.90	
TOTAL	19.22	72.19	297.11	174.76	371.75	741.98	927.19	146.80	66.65	38.62	22.70	19.50	2898.47 CMSDAY
MEAN	0.64	2.33	9.90	5.64	11.99	24.73	29.91	4.89	2.15	1.25	0.81	0.63	7.94 CMS
MAX	1.36	8.90	43.07	12.67	62.20	61.75	104.50	8.40	2.94	1.60	0.95	0.90	104.50 CMS
MIN	0.40	0.55	2.09	3.37	3.28	8.10	8.50	3.02	1.60	1.00	0.75	0.35	0.35 CMS
RUNOFF	1.661	6.237	25.670	15.099	32.119	64.107	80.109	12.684	5.759	3.337	1.961	1.685	250.427 MCM

MOMENTARY PEAK 112.30 CMS, AT 5.63 M (A.D), AT 13.00 HOURS, ON OCT 3, 1980

RUNOFF YIELD 26.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 374.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT BAN THA KHON YANG, MAHA SARAKHAM (E.8A)

LOCATION — LAT. 16°-13'-51" N., LONG. 103°-16'-29" E., ON RIGHT BANK AT THE BRIDGE OF MAHA SARAKHAM-KALASIN HIGHWAY, TAMBON THA KHON YANG, AMPHOE KANTHARAWICHAI, MAHA SARAKHAM.

DRAINAGE AREA — 30,764 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +133.21 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +144.420 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1955 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1955-1957, 1965-1976

RATED BY FLOAT — -

RATED BY CURRENT METER — 1955-1957, 1965-1976

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

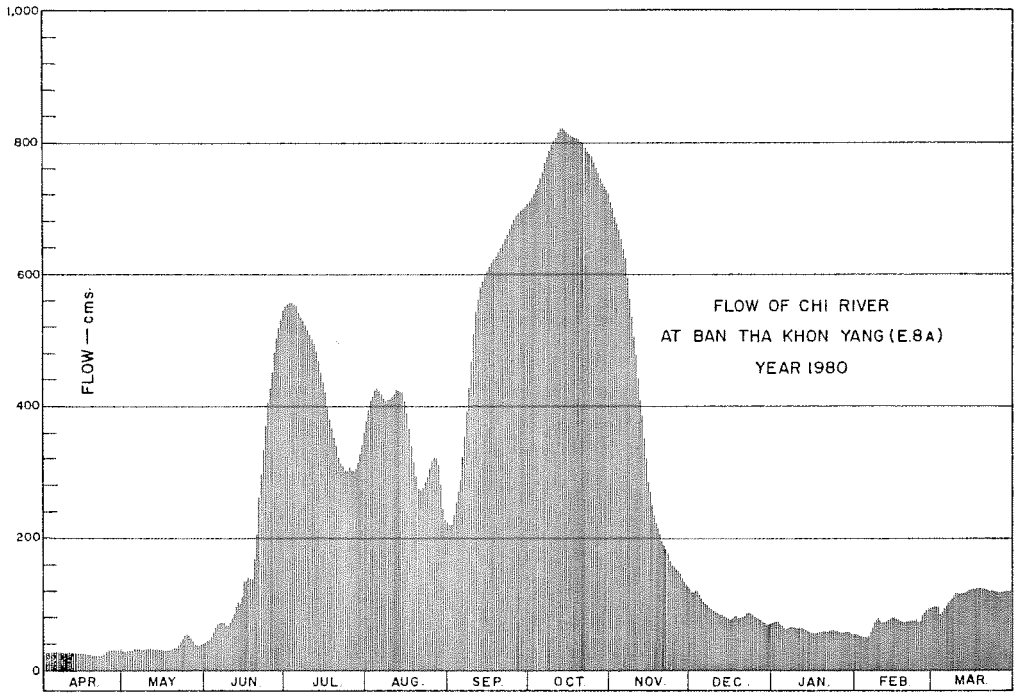
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 101 DISCHARGE MEASUREMENTS MADE DURING 1969-1976. FLOW REGULATED BY NAM PHONG DAM AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.06	134.17	134.53	141.81	140.03	137.69	143.37	143.30	136.12	135.17	134.78	135.65	
2	134.12	134.17	134.57	141.84	140.22	137.69	143.42	143.16	136.06	135.19	134.77	135.67	
3	134.10	134.19	134.66	141.84	140.35	137.97	143.49	143.03	136.08	135.14	134.74	135.61	
4	134.10	134.20	134.92	141.82	140.41	138.38	143.56	142.88	136.01	135.05	134.69	135.42	
5	134.13	134.18	135.09	141.81	140.37	138.73	143.68	142.70	135.89	134.97	134.68	135.52	
6	134.14	134.27	135.14	141.71	140.32	139.21	143.77	142.43	135.77	134.98	134.74	135.73	
7	134.12	134.29	135.14	141.59	140.23	139.88	143.92	142.10	135.67	135.05	134.98	135.80	
8	134.11	134.21	135.11	141.50	140.19	140.51	144.00	141.76	135.62	135.03	135.15	135.89	
9	134.11	134.21	135.04	141.44	140.20	141.10	144.12	141.45	135.55	135.01	135.26	135.97	
10	134.10	134.24	135.17	141.35	140.27	141.50	144.18	141.06	135.51	135.00	135.26	136.02	
11	134.10	134.27	135.36	141.28	140.33	141.77	144.24	140.58	135.46	134.99	135.13	136.01	
12	134.10	134.27	135.55	141.13	140.38	141.96	144.33	140.04	135.41	134.96	135.17	136.03	
13	134.12	134.23	135.74	140.95	140.38	142.13	144.38	139.52	135.36	134.92	135.19	136.04	
14	134.12	134.20	135.72	140.73	140.31	142.25	144.38	139.03	135.32	134.88	135.29	136.06	
15	134.11	134.20	136.17	140.49	140.13	142.36	144.34	138.62	135.28	134.84	135.34	136.08	
16	134.07	134.22	136.33	140.24	139.92	142.40	144.30	138.30	135.26	134.84	135.29	136.09	
17	134.04	134.20	136.41	139.96	139.60	142.43	144.28	137.96	135.33	134.85	135.22	136.11	
18	134.02	134.20	136.36	139.72	139.19	142.52	144.26	137.71	135.33	134.86	135.16	136.13	
19	133.99	134.24	136.93	139.50	138.78	142.60	144.25	137.52	135.28	134.87	135.17	136.14	
20	133.98	134.32	137.87	139.28	138.51	142.68	144.23	137.36	135.34	134.88	135.20	136.12	
21	133.98	134.26	138.54	139.09	138.45	142.74	144.20	137.20	135.38	134.86	135.20	136.10	
22	133.96	134.46	139.14	138.96	138.54	142.82	144.14	137.03	135.44	134.89	135.17	136.09	
23	134.01	134.65	139.65	138.88	138.67	142.89	144.09	136.80	135.43	134.91	135.19	136.08	
24	134.13	134.80	140.11	138.85	138.82	142.96	144.03	136.67	135.36	134.89	135.27	136.06	
25	134.19	134.81	140.46	138.89	139.00	143.06	143.96	136.64	135.29	134.86	135.13	136.05	
26	134.19	134.68	140.99	138.86	139.12	143.13	143.88	136.61	135.25	134.84	135.42	136.05	
27	134.19	134.54	141.26	138.85	139.10	143.20	143.77	136.49	135.19	134.84	135.53	136.05	
28	134.19	134.38	141.50	138.97	138.79	143.23	143.69	136.37	135.16	134.83	135.58	136.06	
29	134.19	134.35	141.66	139.16	138.33	143.27	143.59	136.27	135.11	134.82		136.07	
30	134.19	134.38	141.76	139.51	138.00	143.32	143.50	136.18	135.09	134.80		136.08	
31		134.47		139.80	137.77		143.40		135.14	134.79		136.09	
MEAN	134.10	134.33	137.23	140.32	139.51	141.55	143.96	139.23	135.47	134.93	135.13	135.96	
MAX	134.19	134.81	141.76	141.84	140.41	143.32	144.38	143.30	136.12	135.19	135.58	136.14	144.38
MIN	133.96	134.17	134.53	138.85	137.77	137.69	143.37	136.18	135.09	134.79	134.68	135.42	133.96

ANNUAL MAX MOMENTARY GAGE HEIGHT 144.38 M (MSL), AT 6.00 HOURS, ON OCT 14, 1980
ZERO GAGE AT BOTTOM ELEVATION 133.21 M (MSL), RIVER BED 133.44 M (MSL)
LEFT BANK ELEVATION 147.73 M (MSL)
RIGHT BANK ELEVATION 147.63 M (MSL), DRAINAGE AREA 30764 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.8	29.8	44.2	553.0	396.4	220.3	710.8	703.5	123.5	73.5	54.2	97.5	
2	27.8	29.8	45.8	556.0	411.6	220.3	716.1	690.9	119.8	74.5	53.8	98.5	
3	27.0	30.6	49.4	556.0	422.0	239.9	723.4	675.1	121.0	72.0	52.6	95.5	
4	27.0	31.0	61.0	554.0	426.8	268.6	732.9	660.0	116.7	67.5	50.6	86.0	
5	28.2	30.2	69.5	553.0	423.6	293.1	743.4	642.0	109.5	63.5	50.2	91.0	
6	28.6	33.8	72.0	543.0	419.6	330.8	752.8	615.0	103.5	64.0	52.6	101.5	
7	27.8	34.6	72.0	531.0	412.4	384.4	769.2	582.0	98.5	67.5	64.0	105.0	
8	27.4	31.4	70.5	522.0	409.2	434.8	778.0	548.0	96.0	66.5	72.5	109.5	
9	27.4	31.4	67.0	516.6	410.0	486.0	791.2	517.5	92.5	65.5	78.0	114.3	
10	27.0	32.6	73.5	508.5	415.6	522.0	797.8	482.4	90.5	65.0	78.0	117.3	
11	27.0	33.8	83.0	502.2	420.4	549.0	804.4	440.4	88.0	64.5	71.5	116.7	
12	27.0	33.8	92.5	488.7	424.4	568.0	814.3	397.2	85.5	63.0	73.5	118.0	
13	27.8	32.2	102.0	472.5	424.4	585.0	819.8	355.6	83.0	61.0	74.5	118.6	
14	27.8	31.0	101.0	452.7	418.8	597.0	819.8	316.4	81.0	59.0	79.5	119.8	
15	27.4	31.0	126.5	433.2	404.4	608.0	815.4	285.4	79.0	57.0	82.0	121.0	
16	26.1	31.8	136.3	413.2	387.6	612.0	811.0	263.0	78.0	57.0	79.5	121.6	
17	25.2	31.0	141.2	390.8	362.0	615.0	808.8	239.2	81.5	57.5	76.0	122.8	
18	24.6	31.0	138.1	371.6	329.2	624.0	806.6	221.7	81.5	58.0	73.0	124.1	
19	23.7	32.6	173.0	354.0	296.6	632.0	805.5	209.1	79.0	58.5	73.5	124.7	
20	23.4	35.8	232.9	336.4	277.7	640.0	803.3	199.3	82.0	59.0	75.0	123.5	
21	23.4	33.4	279.8	321.2	273.5	646.0	800.0	189.5	84.0	58.0	75.0	122.2	
22	22.8	41.4	325.2	310.8	279.8	654.0	793.4	179.1	87.0	59.5	73.5	121.6	
23	24.3	49.0	366.0	304.4	288.9	661.0	787.9	165.1	86.5	60.5	74.5	121.0	
24	28.2	55.0	402.8	302.0	299.6	668.0	781.3	157.1	83.0	59.5	78.5	119.8	
25	30.6	55.5	430.8	305.2	314.0	678.3	773.6	155.3	79.5	58.0	71.5	119.2	
26	30.6	50.2	476.1	302.8	323.6	685.6	764.8	153.4	77.5	57.0	86.0	119.2	
27	30.6	44.6	500.4	302.0	322.0	693.0	752.8	146.1	74.5	57.0	91.5	119.2	
28	30.6	38.2	522.0	311.6	297.3	696.1	744.4	138.8	73.0	56.5	94.0	119.8	
29	30.6	37.0	538.0	326.8	265.1	700.3	733.9	132.6	70.5	56.0		120.4	
30	30.6	38.2	548.0	354.8	242.0	705.6	724.5	127.1	69.5	55.0		121.0	
31		41.8		378.0	225.9		714.0		72.0	54.6		121.6	
TOTAL	816.3	1123.5	6340.5	13128.0	11024.4	16218.1	23995.1	10587.8	2747.0	1905.6	2009.0	3551.9	93447.1 CMSDAY
MEAN	27.2	36.2	211.3	423.5	355.6	540.6	774.0	352.9	88.6	61.5	71.8	114.6	256.0 CMS
MAX	30.6	55.5	548.0	556.0	426.8	705.6	819.8	703.5	123.5	74.5	94.0	124.7	819.8 CMS
MIN	22.8	29.8	44.2	302.0	225.9	220.3	710.8	127.1	69.5	54.6	50.2	86.0	22.8 CMS
RUNOFF	70.53	97.07	547.82	1134.26	952.51	1401.24	2073.17	914.78	237.34	164.64	173.58	306.88	8073.83 MCM

MOMENTARY PEAK 819.80 CMS, AT 144.38 M (MSL), AT 6.00 HOURS, ON OCT 14, 1980

RUNOFF YIELD 8.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 26.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT BAN THA NANG LUAN, KHON KAEN (E.9)

LOCATION — LAT. 16°-05'-49" N., LONG. 102°-34'-23" E., ON LEFT BANK AT THE BRIDGE OF MANCHA KHIRI -CHONNABOT HIGHWAY, ABOUT 6 KILOMETERS FROM AMPHOE MANCHA KHIRI OFFICE, BAN THA NANG LUAN, AMPHOE CHONNABOT, KHON KAEN.

DRAINAGE AREA — 11,020 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 45 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +11.931 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1958 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1973

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

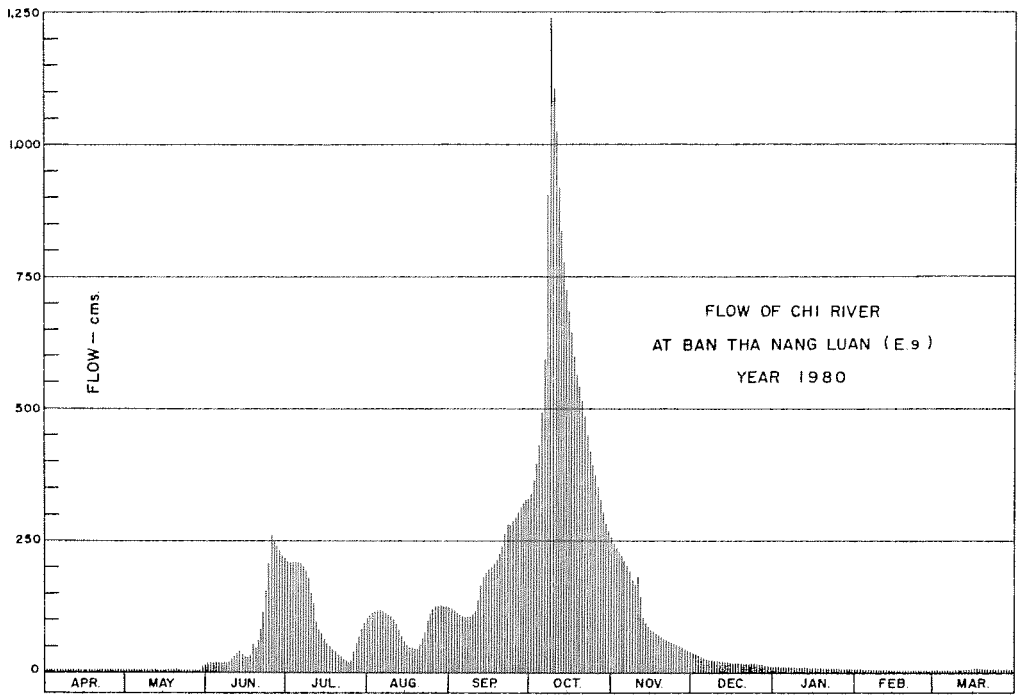
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGEE MEASUREMENTS MADE DURING 1967-1969.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.86	1.78	2.80	8.85	6.79	7.23	9.41	9.06	3.88	2.49	2.07	1.88	
2	1.88	1.78	2.75	8.82	6.92	7.10	9.48	8.99	3.77	2.49	2.06	1.88	
3	1.84	1.76	2.76	8.80	7.00	6.92	9.57	8.92	3.66	2.47	2.04	1.89	
4	1.83	1.78	2.85	8.79	7.04	6.75	9.65	8.87	3.54	2.45	2.04	1.90	
5	1.83	1.80	3.02	8.78	7.03	6.67	9.77	8.80	3.44	2.44	2.04	1.92	
6	1.82	1.81	3.04	8.74	6.99	6.60	9.90	8.83	3.32	2.40	2.03	1.96	
7	1.81	1.80	2.98	8.69	6.94	6.57	10.34	8.61	3.26	2.38	2.03	1.97	
8	1.81	1.78	2.99	8.63	6.85	6.56	10.86	8.42	3.20	2.38	2.03	1.95	
9	1.80	1.80	2.91	8.41	6.68	6.64	10.82	8.14	3.14	2.36	2.02	1.96	
10	1.78	1.92	3.25	7.92	6.53	7.08	10.67	8.41	3.06	2.34	2.01	1.97	
11	1.77	1.92	3.73	7.28	6.30	7.60	10.51	7.80	3.00	2.32	2.00	1.96	
12	1.77	1.90	3.84	6.59	5.96	8.24	10.38	6.50	2.99	2.31	2.00	1.96	
13	1.77	1.88	3.90	5.96	5.54	8.58	10.27	6.18	2.95	2.30	1.99	1.96	
14	1.78	1.87	3.67	5.46	5.08	8.66	10.18	6.00	2.92	2.30	1.97	1.97	
15	1.78	1.86	3.41	5.01	4.67	8.68	10.09	5.83	2.90	2.28	1.95	1.99	
16	1.78	1.85	3.38	4.64	4.34	8.70	10.02	5.75	2.88	2.27	1.94	2.03	
17	1.79	1.85	3.71	4.35	4.18	8.74	9.97	5.65	2.84	2.25	1.93	2.03	
18	1.80	1.85	4.70	4.10	4.10	8.80	9.89	5.49	2.81	2.24	1.93	2.02	
19	1.81	1.87	4.19	3.87	4.19	8.99	9.84	5.26	2.78	2.23	1.93	2.02	
20	1.85	1.91	5.20	3.68	4.71	9.08	9.78	5.11	2.75	2.22	1.94	1.97	
21	1.91	1.72	6.24	3.55	5.45	9.23	9.72	4.98	2.75	2.21	1.94	1.94	
22	1.90	1.94	7.43	3.46	6.03	9.23	9.66	4.86	2.73	2.19	1.93	1.96	
23	1.88	1.96	8.19	3.48	6.73	9.22	9.60	4.80	2.67	2.18	1.93	2.07	
24	1.86	1.98	9.02	3.39	7.09	9.26	9.54	4.70	2.67	2.17	1.92	2.14	
25	1.82	1.98	9.18	3.56	7.21	9.29	9.48	4.55	2.65	2.14	1.92	2.12	
26	1.80	1.97	9.11	4.20	7.25	9.30	9.42	4.41	2.64	2.12	1.91	2.07	
27	1.81	1.99	9.04	4.99	7.26	9.33	9.37	4.32	2.61	2.12	1.90	2.03	
28	1.82	2.00	8.97	5.50	7.24	9.36	9.30	4.21	2.58	2.10	1.89	2.01	
29	1.83	2.02	8.91	5.95	7.19	9.37	9.24	4.07	2.54	2.09		2.00	
30	1.81	2.63	8.89	6.30	7.20	9.38	9.19	3.98	2.52	2.08		1.97	
31		2.62		6.59	7.22		9.11		2.51	2.07		1.89	
MEAN	1.82	1.92	5.14	6.07	6.25	8.24	9.84	6.38	2.97	2.27	1.97	1.98	
MAX	1.91	2.63	9.18	8.85	7.26	9.38	10.86	9.06	3.88	2.49	2.07	2.14	10.86
MIN	1.77	1.72	2.75	3.39	4.10	6.56	9.11	3.98	2.51	2.07	1.89	1.88	1.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.89 M (A.D), AT 18.00 HOURS, ON OCT 8, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -2.68 M (A.D)
LEFT BANK ELEVATION 15.80 M (A.D)
RIGHT BANK ELEVATION 15.40 M (A.D), DRAINAGE AREA 11020 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.6	3.8	19.0	217.0	110.7	125.2	344.0	244.0	40.6	13.3	7.0	4.8	
2	4.8	3.8	18.0	214.0	114.6	120.0	372.0	233.7	38.4	13.3	6.9	4.8	
3	4.4	3.6	18.2	212.0	117.0	114.6	408.0	224.6	36.2	13.0	6.6	4.9	
4	4.3	3.8	20.0	211.0	118.2	109.5	442.5	219.0	33.8	12.7	6.6	5.0	
5	4.3	4.0	23.4	210.0	117.9	107.1	500.0	212.0	31.8	12.6	6.6	5.2	
6	4.2	4.1	23.8	206.0	116.7	105.0	565.0	215.0	29.4	12.0	6.4	5.6	
7	4.1	4.0	22.6	201.2	115.2	104.1	831.0	194.8	28.2	11.7	6.4	5.7	
8	4.1	3.8	22.8	196.4	112.5	103.8	1236.0	181.4	27.0	11.7	6.4	5.5	
9	4.0	4.0	21.2	180.7	107.4	106.2	1202.0	165.0	25.8	11.4	6.3	5.6	
10	3.8	5.2	28.0	154.0	102.9	119.4	1074.5	180.7	24.2	11.1	6.1	5.7	
11	3.7	5.2	37.6	127.2	96.0	140.0	947.5	148.0	23.0	10.8	6.0	5.6	
12	3.7	5.0	39.8	104.7	86.0	170.0	857.0	102.0	22.8	10.6	6.0	5.6	
13	3.7	4.8	41.0	86.0	75.5	192.6	787.0	92.4	22.0	10.5	5.9	5.6	
14	3.8	4.7	36.4	73.5	64.6	198.8	733.0	87.0	21.4	10.5	5.7	5.7	
15	3.8	4.6	31.2	63.2	56.4	200.4	679.0	82.7	21.0	10.2	5.5	5.9	
16	3.8	4.5	30.6	55.8	49.8	202.0	637.0	80.7	20.6	10.0	5.4	6.4	
17	3.9	4.5	37.2	50.0	46.6	206.0	607.0	78.2	19.8	9.7	5.3	6.4	
18	4.0	4.5	57.0	45.0	45.0	212.0	560.0	74.2	19.2	9.6	5.3	6.3	
19	4.1	4.7	46.8	40.4	46.8	233.7	535.0	68.5	18.6	9.4	5.3	6.3	
20	4.5	5.1	67.0	36.6	57.2	247.0	505.0	65.2	18.0	9.3	5.4	5.7	
21	5.1	3.2	94.2	34.0	73.2	282.6	475.0	62.6	18.0	9.1	5.4	5.4	
22	5.0	5.4	133.2	32.2	87.9	282.6	447.0	60.2	17.6	8.8	5.3	5.6	
23	4.8	5.6	167.5	32.6	108.9	279.4	420.0	59.0	16.4	8.7	5.3	7.0	
24	4.6	5.8	238.0	30.8	119.7	292.2	396.0	57.0	16.4	8.5	5.2	8.1	
25	4.2	5.8	268.4	34.2	124.4	301.8	372.0	54.0	16.0	8.1	5.2	7.8	
26	4.0	5.7	252.3	47.0	126.0	305.0	348.0	51.2	15.8	7.8	5.1	7.0	
27	4.1	5.9	241.0	60.8	126.4	315.5	329.5	49.4	15.2	7.8	5.0	6.4	
28	4.2	6.0	231.1	74.5	125.6	326.0	305.0	47.2	14.7	7.5	4.9	6.1	
29	4.3	6.3	223.3	85.7	123.6	329.5	285.8	44.4	14.1	7.3		6.0	
30	4.1	15.6	221.0	96.0	124.0	333.0	270.7	42.6	13.8	7.2		5.7	
31		15.4		104.7	124.8		252.3		13.6	7.0		4.9	
TOTAL	126.0	168.4	2711.6	3317.2	3021.5	6165.0	17723.8	3476.7	693.4	311.2	162.5	182.3	38059.6 CMSDAY
MEAN	4.2	5.4	90.4	107.0	97.5	205.5	571.7	115.9	22.4	10.0	5.8	5.9	104.3 CMS
MAX	5.1	15.6	268.4	217.0	126.4	333.0	1236.0	244.0	40.6	13.3	7.0	8.1	1236.0 CMS
MIN	3.7	3.2	18.0	30.8	45.0	103.8	252.3	42.6	13.6	7.0	4.9	4.8	3.2 CMS
RUNOFF	10.89	14.55	234.28	286.61	261.06	532.66	1531.34	300.39	59.91	26.89	14.04	15.75	3288.35 MCM

MOMENTARY PEAK 1261.50 CMS, AT 10.89 M (A.D), AT 18.00 HOURS, ON OCT 8, 1980

RUNOFF YIELD 9.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 114.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

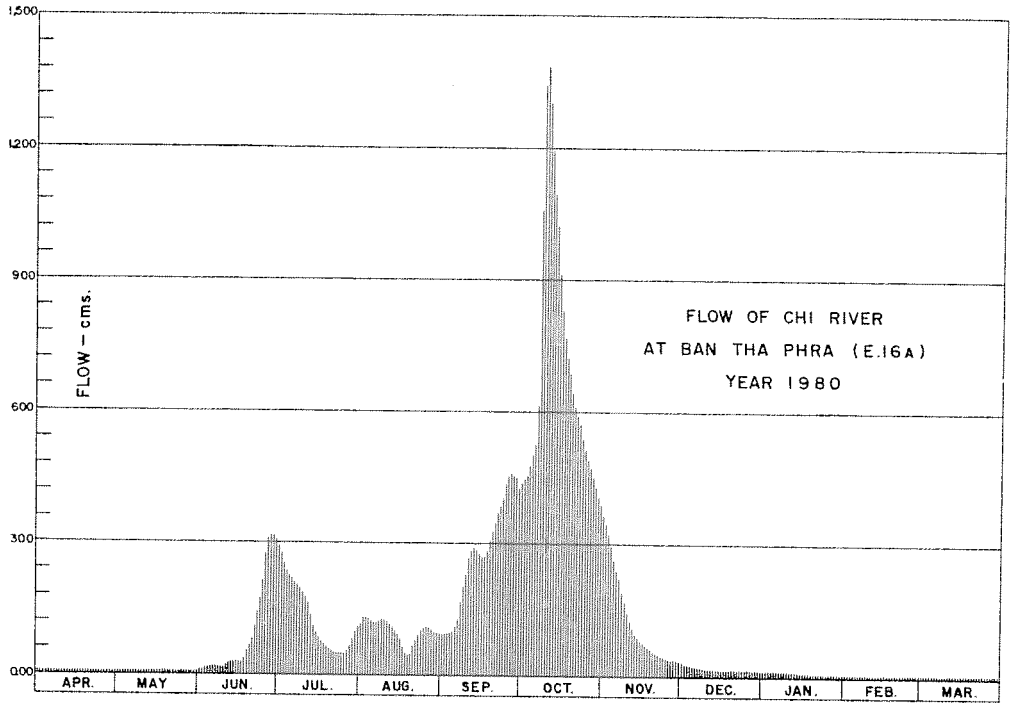
CHI RIVER AT BAN THA PHRA, KHON KAEN (E.16A)

LOCATION	LAT. 16-21-14 N., LONG. 102-48-09 E., ON LEFT BANK ABOUT 400 METERS UPSTREAM FROM THE BRIDGE OF KHON KAEN-MAHA SARAKHAM HIGHWAY, TAMBON DON HAN, AMPHOE MUANG KHON KAEN.
DRAINAGE AREA	13,171 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+142.94 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	+154.989 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1963, 1965 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1963, 1965 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +151.15 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 56 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	142.82	142.87	143.68	150.18	147.19	146.69	151.54	151.14	144.75	143.82	143.39	143.04	
2	143.08	142.87	143.93	149.95	147.36	146.68	151.54	150.95	144.70	143.84	143.37	143.05	
3	143.00	142.86	144.04	149.71	147.43	146.67	151.61	150.70	144.63	143.85	143.35	143.06	
4	142.96	142.92	144.03	149.49	147.40	146.69	151.74	150.33	144.56	143.85	143.34	143.06	
5	142.92	142.99	144.03	149.28	147.34	146.75	151.85	149.85	144.49	143.85	143.34	143.04	
6	142.90	143.00	144.12	149.11	147.27	146.97	151.94	149.40	144.42	143.84	143.36	143.00	
7	142.89	142.98	144.20	148.96	147.23	147.53	152.07	149.00	144.35	143.83	143.35	142.99	
8	142.87	142.94	144.19	148.84	147.24	148.11	152.61	148.67	144.28	143.80	143.34	143.05	
9	142.87	142.94	144.14	148.70	147.26	148.71	153.61	148.36	144.23	143.76	143.34	143.07	
10	142.87	142.92	144.12	148.54	147.32	149.18	153.69	147.95	144.20	143.70	143.32	143.08	
11	142.87	142.89	144.29	148.30	147.30	149.56	153.56	147.49	144.16	143.70	143.32	143.09	
12	142.85	142.90	144.51	147.96	147.22	150.08	153.36	147.08	144.14	143.67	143.31	143.10	
13	142.84	143.03	144.61	147.57	147.07	150.21	153.15	146.74	144.13	143.64	143.29	143.07	
14	142.84	143.08	144.67	147.18	146.82	150.06	152.97	146.50	144.11	143.62	143.27	143.08	
15	142.83	143.03	144.61	146.84	146.55	149.93	152.83	146.34	144.09	143.61	143.25	143.08	
16	142.82	143.01	144.50	146.52	146.30	149.86	152.70	146.21	144.09	143.60	143.23	143.08	
17	142.81	142.99	144.52	146.24	145.92	149.81	152.59	146.10	144.09	143.59	143.23	143.10	
18	142.83	142.97	144.94	145.99	145.53	149.97	152.50	146.01	144.09	143.61	143.19	143.11	
19	142.86	142.94	145.68	145.78	145.29	150.29	152.41	145.88	144.09	143.64	143.15	143.14	
20	142.89	142.94	145.86	145.62	145.54	150.60	152.33	145.72	144.06	143.64	143.14	143.13	
21	142.96	142.95	146.32	145.49	145.89	150.92	152.24	145.56	144.03	143.64	143.12	143.11	
22	142.93	143.09	146.95	145.43	146.13	151.10	152.16	145.39	144.02	143.61	143.12	143.06	
23	142.94	143.12	147.55	145.39	146.47	151.21	152.09	145.33	144.00	143.57	143.11	143.03	
24	142.92	143.14	148.21	145.37	146.89	151.33	152.01	145.31	143.97	143.56	143.11	143.05	
25	142.91	143.15	149.13	145.33	147.11	151.50	151.94	145.24	143.97	143.56	143.13	143.10	
26	142.93	143.18	149.73	145.37	147.19	151.64	151.84	145.14	144.00	143.55	143.11	143.18	
27	142.91	143.22	150.32	145.58	147.05	151.67	151.74	145.06	143.97	143.52	143.08	143.22	
28	142.91	143.24	150.56	145.90	146.89	151.64	151.63	144.97	143.95	143.48	143.06	143.20	
29	142.90	143.24	150.52	146.29	146.79	151.60	151.52	144.89	143.91	143.45		143.16	
30	142.89	143.23	150.38	146.69	146.71	151.47	151.41	144.82	143.88	143.41		143.11	
31		143.25		146.97	146.71		151.28		143.85	143.40		143.09	
MEAN	142.89	143.03	145.94	147.24	146.79	149.61	152.27	147.07	144.17	143.65	143.24	143.09	
MAX	143.08	143.25	150.56	150.18	147.43	151.67	153.69	151.14	144.75	143.85	143.39	143.22	153.69
MIN	142.81	142.86	143.68	145.33	145.29	146.67	151.28	144.82	143.85	143.40	143.06	142.99	142.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 153.70 M (MSL), AT 1.00 HOURS, ON OCT 10, 1980
ZERO GAGE AT BOTTOM ELEVATION 142.94 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 154.46 M (MSL)
RIGHT BANK ELEVATION 151.15 M (MSL), DRAINAGE AREA 13171 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.3	1.5	7.2	288.0	116.0	95.6	432.0	369.7	30.2	9.3	4.2	2.4	
2	2.6	1.5	11.1	270.7	123.9	95.2	432.0	349.9	29.0	9.6	4.1	2.4	
3	2.2	1.5	13.3	254.5	127.3	94.8	446.1	327.4	27.2	9.7	4.0	2.5	
4	2.0	1.8	13.1	240.0	125.8	95.6	474.4	299.2	25.5	9.7	3.9	2.5	
5	1.8	2.1	13.1	227.3	122.9	98.0	501.2	263.7	23.7	9.7	3.9	2.4	
6	1.7	2.2	14.9	217.1	119.6	106.8	524.4	234.5	22.0	9.6	4.1	2.2	
7	1.6	2.1	16.5	208.1	117.8	132.3	561.0	210.5	20.2	9.4	4.0	2.1	
8	1.5	1.9	16.3	200.9	118.3	161.1	776.6	190.7	18.5	9.0	3.9	2.4	
9	1.5	1.9	15.3	192.5	119.2	193.1	1330.5	173.5	17.2	8.4	3.9	2.5	
10	1.5	1.8	14.9	183.1	122.0	221.3	1375.8	153.1	16.5	7.5	3.8	2.6	
11	1.5	1.6	18.7	170.5	121.0	244.4	1302.3	130.3	15.7	7.5	3.8	2.6	
12	1.4	1.7	24.2	153.6	117.4	280.5	1189.0	111.2	15.3	7.0	3.8	2.7	
13	1.4	2.3	26.7	134.2	110.8	290.2	1070.5	97.6	15.1	6.6	3.6	2.5	
14	1.4	2.6	28.2	115.6	100.8	279.0	969.7	88.0	14.7	6.3	3.5	2.6	
15	1.3	2.3	26.7	101.6	90.0	269.2	891.6	81.6	14.3	6.1	3.4	2.6	
16	1.3	2.2	24.0	88.8	80.0	264.4	823.0	76.4	14.3	6.0	3.3	2.6	
17	1.2	2.1	24.5	77.6	65.7	261.1	766.3	72.1	14.3	5.9	3.3	2.7	
18	1.3	2.0	35.1	68.1	52.0	272.2	720.0	68.9	14.3	6.1	3.1	2.7	
19	1.5	1.9	57.3	60.8	45.0	296.2	681.7	64.3	14.3	6.6	2.9	2.9	
20	1.6	1.9	63.6	55.2	52.4	319.7	647.7	58.7	13.7	6.6	2.9	2.8	
21	2.0	1.9	80.8	50.7	64.6	346.8	614.6	53.1	13.1	6.6	2.8	2.7	
22	1.8	2.6	106.0	49.0	73.3	365.2	588.6	47.9	12.9	6.1	2.8	2.5	
23	1.9	2.8	133.3	47.9	86.8	378.1	567.0	46.2	12.5	5.7	2.7	2.3	
24	1.8	2.9	166.1	47.3	103.6	397.0	543.1	45.6	11.9	5.6	2.7	2.4	
25	1.7	2.9	218.3	46.2	112.4	424.0	524.4	43.6	11.9	5.6	2.8	2.7	
26	1.8	3.1	255.8	47.3	116.0	452.4	498.7	40.8	12.5	5.5	2.7	3.1	
27	1.7	3.3	298.5	53.8	110.0	458.7	474.4	38.5	11.9	5.2	2.6	3.3	
28	1.7	3.4	316.7	65.0	103.6	452.4	450.3	36.0	11.5	4.9	2.5	3.2	
29	1.7	3.4	313.6	79.6	99.6	444.0	428.0	33.7	10.7	4.6		3.0	
30	1.6	3.3	303.0	95.6	96.4	419.0	409.1	32.0	10.2	4.4		2.7	
31		3.4		106.8	96.4		389.3		9.7	4.3		2.6	
TOTAL	49.3	71.9	2656.8	3997.4	3110.6	8208.3	21403.3	3838.7	504.8	215.1	95.0	81.2	44232.3 CMSDAY
MEAN	1.6	2.3	88.6	128.9	100.3	273.6	690.4	128.0	16.3	6.9	3.4	2.6	121.2 CMS
MAX	2.6	3.4	316.7	288.0	127.3	458.7	1375.8	369.7	30.2	9.7	4.2	3.3	1375.8 CMS
MIN	1.2	1.5	7.2	46.2	45.0	94.8	389.3	32.0	9.7	4.3	2.5	2.1	1.2 CMS
RUNOFF	4.26	6.21	229.55	345.37	268.76	709.20	1849.24	331.66	43.61	18.58	8.21	7.02	3821.67 MCM

MOMENTARY PEAK 1381.48 CMS, AT 153.70 M (MSL), AT 1.00 HOURS, ON OCT 10, 1980

RUNOFF YIELD 9.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 104.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT BAN THA SABAENG, ROI ET (E.18)

LOCATION — LAT. 16°-01'-59" N., LONG. 103°-54'-38" E., ON LEFT BANK AT BAN THA SABAENG, AMPHOE THAWATCHABURI, ROI ET.

DRAINAGE AREA — 41,594 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +122.244 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — BESIDE THE OLD STAFF GAGE.

ELEVATION — +132.934 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1954 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

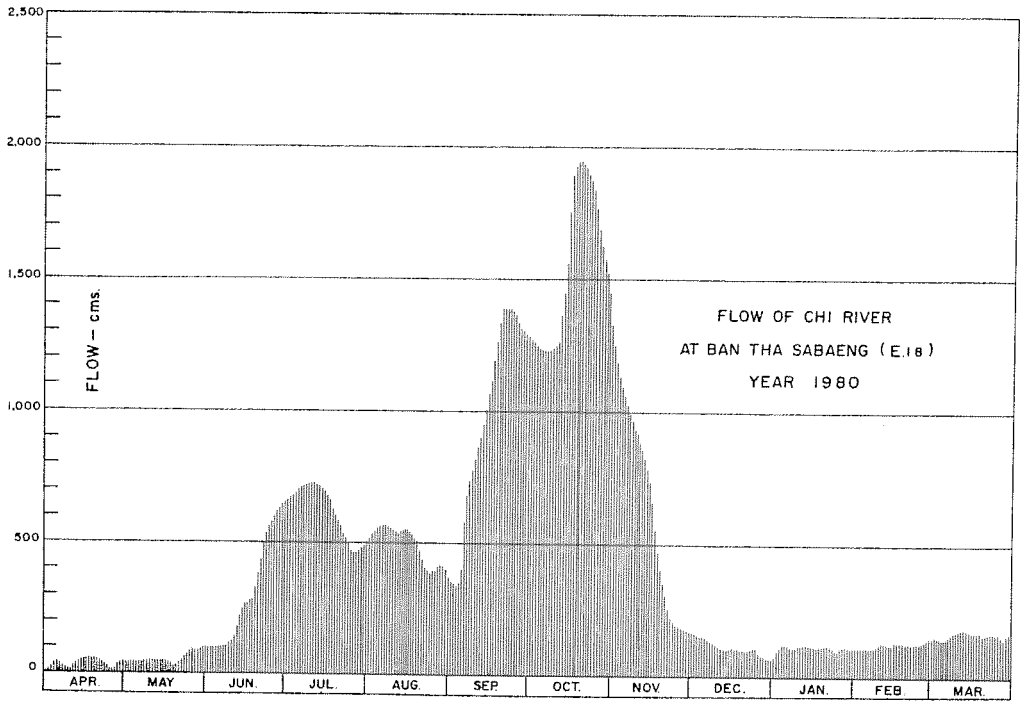
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 98 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	123.19	123.87	124.68	129.85	128.80	127.41	131.92	131.96	126.02	124.55	124.90	125.32	
2	123.42	123.86	124.68	129.90	128.91	127.31	131.91	131.87	125.93	124.80	124.89	125.37	
3	123.72	123.86	124.70	129.92	128.99	127.26	131.89	131.77	125.88	124.96	124.88	125.40	
4	123.76	123.84	124.75	129.94	129.07	127.39	131.88	131.70	125.85	125.01	124.87	125.43	
5	123.82	123.86	124.77	129.99	129.15	127.67	131.86	131.63	125.82	125.03	124.85	125.37	
6	123.83	123.87	124.70	130.07	129.16	128.33	131.85	131.56	125.74	124.98	124.82	125.30	
7	123.74	123.88	124.70	130.11	129.17	130.10	131.85	131.49	125.63	124.94	124.82	125.32	
8	123.55	123.92	124.80	130.12	129.15	130.44	131.85	131.42	125.51	124.95	124.89	125.40	
9	123.36	123.98	124.99	130.15	129.10	130.47	131.87	131.33	125.44	124.96	124.99	125.48	
10	123.32	123.99	124.93	130.17	129.05	130.75	131.88	131.22	125.34	125.00	125.07	125.54	
11	123.58	123.94	125.34	130.18	129.00	130.97	131.94	131.17	125.28	125.06	125.11	125.61	
12	123.78	123.95	125.88	130.15	128.99	131.10	132.05	131.08	125.21	125.07	125.13	125.68	
13	123.87	123.98	126.27	130.09	128.98	131.22	132.18	130.97	125.15	125.06	125.08	125.78	
14	123.98	124.00	126.49	130.05	129.00	131.34	132.31	130.81	125.16	125.04	125.09	125.76	
15	124.01	124.00	126.65	130.01	129.02	131.54	132.43	130.62	125.20	125.01	125.13	125.69	
16	124.03	123.98	126.72	129.94	128.99	131.69	132.52	130.37	125.19	124.97	125.15	125.66	
17	124.04	123.93	126.72	129.81	128.91	131.81	132.54	129.95	125.16	124.94	125.17	125.61	
18	124.06	123.76	126.75	129.63	128.81	131.96	132.55	129.39	125.13	124.96	125.17	125.58	
19	124.03	123.59	127.21	129.46	128.64	132.05	132.56	128.70	125.10	124.99	125.12	125.64	
20	124.00	123.58	127.77	129.29	128.37	132.09	132.55	128.05	125.08	125.00	125.06	125.56	
21	123.95	123.89	128.30	129.14	128.08	132.08	132.55	127.56	125.06	125.00	125.05	125.48	
22	123.90	124.08	128.77	128.96	127.86	132.08	132.53	127.17	125.07	124.97	125.07	125.56	
23	123.61	124.16	129.00	128.81	127.76	132.08	132.52	126.92	125.17	124.80	125.10	125.59	
24	123.33	124.27	129.08	128.60	127.73	132.07	132.50	126.68	125.26	124.56	125.08	125.59	
25	123.18	124.45	129.23	128.41	127.75	132.05	132.48	126.49	125.06	124.73	125.09	125.59	
26	123.18	124.62	129.40	128.36	127.87	132.01	132.43	126.36	124.82	124.90	125.15	125.51	
27	123.49	124.53	129.52	128.40	127.97	131.99	132.37	126.26	124.69	124.95	125.19	125.28	
28	123.74	124.48	129.63	128.46	128.03	131.98	132.30	126.17	124.63	124.95	125.25	125.28	
29	123.87	124.57	129.71	128.51	127.97	131.96	132.24	126.14	124.56	124.94		125.50	
30	123.90	124.63	129.79	128.60	127.81	131.94	132.19	126.12	124.53	124.93		125.57	
31		124.68		128.70	127.59		132.05		124.51	124.91		125.61	
MEAN	123.71	124.06	126.86	129.48	128.57	130.77	132.21	129.43	125.23	124.93	125.04	125.52	
MAX	124.06	124.68	129.79	130.18	129.17	132.09	132.56	131.96	126.02	125.07	125.25	125.78	132.56
MIN	123.18	123.58	124.68	128.36	127.59	127.26	131.85	126.12	124.51	124.56	124.82	125.28	123.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 132.56 M (MSL), AT 6.00 HOURS, ON OCT 19, 1980
ZERO GAGE AT BOTTOM ELEVATION 122.24 M (MSL), RIVER BED 120.13 M (MSL)
LEFT BANK ELEVATION 132.90 M (MSL)
RIGHT BANK ELEVATION 132.72 M (MSL), DRAINAGE AREA 41594 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.5	43.2	98.5	668.2	515.0	348.1	1272.0	1288.0	165.4	88.7	115.0	146.5	
2	19.0	42.6	98.5	676.5	530.3	337.1	1266.0	1220.5	159.1	107.5	114.2	150.2	
3	34.2	42.6	100.0	680.0	541.4	331.8	1254.0	1157.0	155.6	119.5	113.5	152.5	
4	36.6	41.4	103.7	683.5	552.6	345.9	1248.0	1115.0	153.5	123.2	112.7	154.9	
5	40.2	42.6	105.2	692.2	563.7	376.7	1236.0	1073.0	151.4	124.7	111.2	150.2	
6	40.8	43.2	100.0	706.6	565.1	454.6	1230.0	1035.0	146.1	121.0	109.0	145.0	
7	35.4	43.8	100.0	713.8	566.5	712.0	1230.0	1000.8	138.9	118.0	109.0	146.5	
8	25.5	46.2	107.5	715.6	563.7	773.6	1230.0	971.4	131.1	118.7	114.2	152.5	
9	16.0	49.8	121.7	721.0	556.7	779.3	1242.0	936.4	126.6	119.5	121.7	158.9	
10	14.0	50.4	117.2	724.6	549.8	837.0	1248.0	894.6	120.1	122.5	127.7	163.9	
11	27.0	47.4	148.0	726.4	542.8	887.5	1284.0	876.8	116.2	127.0	130.7	169.9	
12	37.8	48.0	195.1	721.0	541.4	920.0	1360.0	846.4	111.6	127.7	132.2	176.2	
13	43.2	49.8	232.1	710.2	540.0	959.8	1468.0	811.0	108.0	127.0	128.5	185.6	
14	49.8	51.0	253.0	703.0	542.8	1000.6	1601.0	763.9	108.6	125.5	129.2	183.7	
15	51.6	51.0	268.5	695.8	545.6	1076.0	1744.9	710.6	111.0	123.2	132.2	177.1	
16	52.9	49.8	275.8	683.5	541.4	1145.0	1884.0	650.4	110.4	120.2	133.7	174.4	
17	53.6	46.8	275.5	661.6	530.3	1206.0	1918.0	565.7	108.6	118.0	135.2	169.9	
18	54.9	38.6	278.5	633.6	516.4	1296.0	1935.0	476.6	106.8	119.5	135.2	167.3	
19	52.9	27.5	326.5	607.5	493.4	1360.0	1952.0	393.0	105.0	121.7	131.5	172.6	
20	51.0	27.0	387.7	583.2	459.4	1392.0	1935.0	327.3	103.8	122.5	127.0	165.6	
21	48.0	44.4	451.0	562.3	424.6	1384.0	1935.0	282.4	102.6	122.5	126.2	158.9	
22	45.0	56.2	511.0	537.3	398.2	1384.0	1901.0	249.6	103.2	120.2	127.7	165.6	
23	28.5	61.4	542.8	516.4	386.6	1384.0	1884.0	229.6	109.2	107.5	130.0	168.1	
24	14.5	68.5	554.0	488.0	383.3	1376.0	1850.0	211.6	114.9	89.5	128.5	168.1	
25	7.1	81.2	574.8	464.2	385.5	1360.0	1820.0	198.3	102.6	102.2	129.2	168.1	
26	7.1	94.0	599.5	458.2	399.4	1328.0	1744.9	189.2	88.2	115.0	133.7	161.3	
27	22.5	87.2	616.6	463.0	411.4	1314.0	1667.0	182.2	80.4	118.7	136.7	143.5	
28	35.4	82.5	633.6	470.5	418.6	1308.0	1590.0	175.9	76.8	118.7	141.2	143.5	
29	43.2	90.2	646.0	476.7	411.4	1296.0	1527.0	173.8	73.0	118.0		160.5	
30	45.0	94.7	659.4	488.0	392.2	1284.0	1476.5	172.4	71.5	117.2		166.4	
31		98.5		501.5	367.9		1360.0		70.5	115.7		169.9	
TOTAL	1040.2	1740.5	9479.4	19133.9	15137.4	29957.0	48293.3	19178.4	3530.7	3640.8	3516.8	5037.3	159685.5 CMSDAY
MEAN	34.7	56.1	316.0	617.2	488.3	998.6	1557.8	639.3	113.9	117.4	125.6	162.5	437.5 CMS
MAX	54.9	98.5	659.4	726.4	566.5	1392.0	1952.0	1288.0	165.4	127.7	141.2	185.6	1952.0 CMS
MIN	7.1	27.0	98.5	458.2	367.9	331.8	1230.0	172.4	70.5	88.7	109.0	143.5	7.1 CMS
RUNOFF	89.87	150.38	819.02	1653.17	1307.87	2588.28	4172.54	1657.01	305.05	314.56	303.85	435.22	13796.83 MCM

MOMENTARY PEAK 1951.97 CMS, AT 132.56 M (MSL), AT 6.00 HOURS, ON OCT 19, 1980

RUNOFF YIELD 10.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 46.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT MAHA CHANA CHAI, YASOTHON (E.20A)

LOCATION — LAT. 15°-31'-59" N., LONG. 104°-15'-24" E., ON RIGHT BANK ABOUT 800 METERS UPSTREAM FROM E.20 STATION, AMPHOE MAHA CHANA CHAI, YASOTHON.

DRAINAGE AREA — 47,818 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +112.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE POLICE STATION.

ELEVATION — +131.297 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1975 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1975 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1975 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 165 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

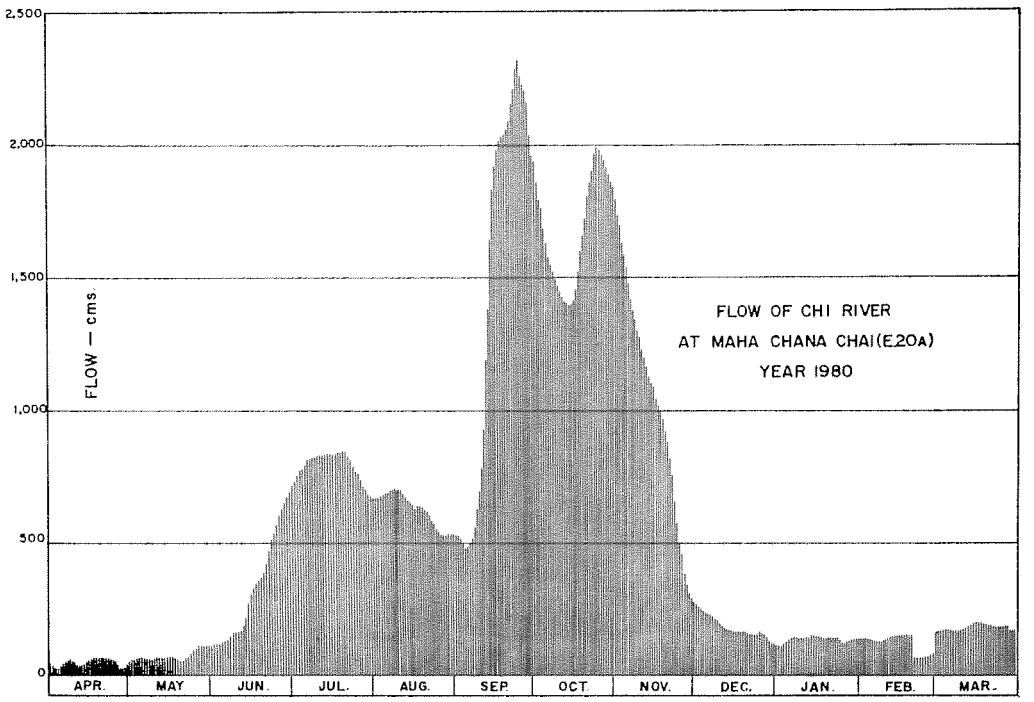
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	114.76	114.93	115.69	120.34	120.11	119.33	122.86	122.70	117.35	115.62	115.94	116.17	
2	114.63	114.98	115.73	120.42	120.11	119.25	122.77	122.63	117.26	115.60	115.93	116.21	
3	114.55	115.00	115.76	120.51	120.13	119.17	122.71	122.56	117.16	115.64	115.92	116.26	
4	114.60	115.03	115.82	120.55	120.16	119.01	122.64	122.49	117.06	115.77	115.91	116.30	
5	114.74	115.07	115.87	120.65	120.19	119.00	122.56	122.43	116.99	115.90	115.88	116.34	
6	114.86	115.05	115.90	120.70	120.21	119.07	122.50	122.35	116.93	115.98	115.87	116.35	
7	114.92	115.04	115.99	120.74	120.22	119.23	122.46	122.28	116.88	116.00	115.85	116.32	
8	114.94	115.03	116.14	120.75	120.25	119.54	122.42	122.22	116.82	116.00	115.83	116.29	
9	114.93	115.02	116.25	120.77	120.26	119.89	122.38	122.15	116.73	115.97	115.83	116.30	
10	114.86	115.06	116.32	120.78	120.26	120.28	122.34	122.09	116.61	115.97	115.87	116.35	
11	114.74	115.09	116.22	120.80	120.21	120.73	122.32	122.02	116.52	115.98	115.95	116.40	
12	114.66	115.12	116.34	120.80	120.17	121.21	122.28	121.96	116.44	116.01	116.00	116.46	
13	114.72	115.09	116.67	120.80	120.12	121.84	122.27	121.90	116.36	116.04	116.05	116.52	
14	114.85	115.08	117.19	120.80	120.05	122.43	122.25	121.84	116.29	116.08	116.09	116.58	
15	114.96	115.08	117.56	120.81	120.01	122.65	122.26	121.79	116.24	116.07	116.09	116.64	
16	115.03	115.10	117.80	120.80	119.89	122.75	122.28	121.73	116.23	116.06	116.08	116.65	
17	115.08	115.13	117.97	120.80	119.96	122.83	122.34	121.67	116.23	116.04	116.10	116.63	
18	115.10	115.12	118.08	120.82	119.95	122.87	122.43	121.60	116.21	116.01	116.11	116.60	
19	115.10	115.09	118.18	120.80	119.94	122.89	122.53	121.53	116.20	115.98	116.13	116.56	
20	115.11	114.99	118.32	120.84	119.91	122.90	122.63	121.45	116.17	115.99	116.13	116.53	
21	115.12	114.94	118.59	120.82	119.84	122.94	122.72	121.28	116.14	115.99	115.11	116.52	
22	115.11	114.92	118.91	120.76	119.76	122.99	122.78	121.06	116.12	116.00	115.07	116.47	
23	115.08	115.03	119.20	120.72	119.64	123.07	122.84	120.70	116.09	116.00	115.05	116.43	
24	115.04	115.16	119.45	120.62	119.52	123.14	122.91	120.24	116.10	115.98	115.07	116.45	
25	114.93	115.26	119.63	120.53	119.45	123.18	122.93	119.65	116.14	115.86	115.08	116.48	
26	114.77	115.36	119.77	120.51	119.38	123.19	122.92	119.04	116.20	115.75	115.09	116.49	
27	114.63	115.54	119.89	120.37	119.33	123.16	122.90	118.48	116.11	115.77	115.11	116.50	
28	114.53	115.71	120.01	120.27	119.32	123.11	122.87	118.02	115.96	115.87	115.15	116.42	
29	114.63	115.68	120.13	120.20	119.33	123.03	122.83	117.70	115.82	115.92		116.31	
30	114.81	115.61	120.23	120.16	119.37	122.94	122.80	117.48	115.73	115.95		116.31	
31		115.65		120.12	119.37		122.76		115.67	115.95		116.38	
MEAN	114.86	115.16	117.66	120.62	119.88	121.59	122.60	121.17	116.41	115.93	115.72	116.43	
MAX	115.12	115.71	120.23	120.84	120.26	123.19	122.93	122.70	117.35	116.08	116.13	116.65	123.19
MIN	114.53	114.92	115.69	120.12	119.32	119.00	122.25	117.48	115.67	115.60	115.05	116.17	114.53

ANNUAL MAX MOMENTARY GAGE HEIGHT — 123.19 M (MSL), AT 6.00 HOURS, ON SEP 26, 1980

ZERO GAGE AT BOTTOM ELEVATION — 112.00 M (MSL), RIVER BED — M (MSL)

LEFT BANK ELEVATION — 124.25 M (MSL)

RIGHT BANK ELEVATION — 124.25 M (MSL), DRAINAGE AREA — 47818 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	40.8	54.4	115.2	720.0	672.0	529.5	1924.0	1780.0	267.0	109.6	135.2	153.6	
2	30.4	58.4	118.4	740.0	672.0	517.5	1843.0	1717.0	258.0	108.0	134.4	156.9	
3	24.5	60.0	120.8	762.5	676.0	505.5	1789.0	1654.0	248.0	111.2	133.6	161.4	
4	28.0	62.4	125.6	772.5	682.0	481.5	1726.0	1591.0	238.0	121.6	132.8	165.0	
5	39.2	65.6	129.6	797.5	688.0	480.0	1654.0	1537.0	231.0	132.0	130.4	168.6	
6	48.8	64.0	132.0	810.0	692.0	490.5	1600.0	1470.0	225.0	138.4	129.6	169.5	
7	53.6	63.2	139.2	820.0	694.0	514.5	1564.0	1415.0	220.0	140.0	128.0	166.8	
8	55.2	62.4	151.2	822.5	700.0	562.8	1528.0	1370.0	214.0	140.0	126.4	164.1	
9	54.4	61.6	160.5	827.5	702.0	628.0	1494.0	1320.0	205.0	137.6	126.4	165.0	
10	48.8	64.8	166.8	830.0	702.0	706.0	1462.0	1278.0	193.0	137.6	129.6	169.5	
11	39.2	67.2	166.8	835.0	692.0	817.5	1446.0	1229.0	184.8	138.4	136.0	174.0	
12	32.8	69.6	168.6	835.0	684.0	989.0	1415.0	1189.0	177.6	140.8	140.0	179.4	
13	37.6	67.2	199.0	835.0	674.0	1282.0	1407.5	1150.0	170.4	143.2	144.0	184.8	
14	48.0	66.4	251.0	835.0	660.0	1652.5	1392.5	1117.0	164.1	146.4	147.2	190.2	
15	56.8	66.4	289.6	838.5	652.0	1827.5	1400.0	1089.5	159.6	145.6	147.2	196.0	
16	62.4	68.0	318.0	835.0	628.0	1912.5	1415.0	1056.5	158.7	144.8	146.4	197.0	
17	66.4	70.4	340.1	835.0	642.0	1982.0	1462.0	1023.5	158.7	143.2	148.0	195.0	
18	68.0	69.6	354.4	842.0	640.0	2018.0	1537.0	985.0	156.9	140.8	148.8	192.0	
19	68.0	67.2	367.4	835.0	638.0	2036.0	1627.0	953.5	156.0	138.4	150.4	188.4	
20	68.8	59.2	385.6	849.0	632.0	2045.0	1717.0	917.5	153.6	139.2	150.4	185.7	
21	69.6	55.2	420.7	842.0	618.0	2083.0	1798.0	859.0	151.2	139.2	68.8	184.8	
22	68.8	53.6	466.5	925.0	602.4	2130.5	1852.0	800.0	149.6	140.0	65.6	180.3	
23	66.4	62.4	510.0	815.0	580.2	2210.0	1906.0	715.0	147.2	140.0	64.0	176.7	
24	63.2	72.8	548.0	790.0	559.4	2280.0	1970.0	623.0	148.0	138.4	65.6	178.5	
25	54.4	80.8	578.4	767.5	548.0	2320.0	1990.0	532.5	151.2	128.8	66.4	181.2	
26	41.6	88.8	604.3	762.5	537.0	2250.0	1980.0	444.0	156.0	120.0	67.2	182.1	
27	30.4	103.2	628.0	727.5	529.5	2220.0	1960.0	388.0	148.8	121.6	68.8	183.0	
28	26.6	116.8	652.0	704.0	528.0	2170.0	1933.0	346.6	136.8	129.6	72.0	175.8	
29	30.4	114.4	676.0	690.0	529.5	2090.0	1897.0	306.0	125.6	133.6		165.9	
30	44.8	108.8	696.0	682.0	535.5	2000.0	1870.0	280.8	118.4	136.0		165.9	
31		112.0		674.0	535.5		1834.0		113.6	136.0		172.2	
TOTAL	1467.9	2256.8	9979.7	24556.5	19525.0	43731.3	52393.0	31137.4	5485.8	4160.0	3303.2	5469.3	203465.8 CMSDAY
MEAN	48.9	72.8	332.7	792.1	629.8	1457.7	1690.1	1037.9	177.0	134.2	118.0	176.4	557.4 CMS
MAX	69.6	116.8	696.0	849.0	702.0	2320.0	1990.0	1780.0	267.0	146.4	150.4	197.0	2320.0 CMS
MIN	24.5	53.6	115.2	674.0	528.0	480.0	1392.5	280.8	113.6	108.0	64.0	153.6	24.5 CMS
RUNOFF	126.83	194.99	862.25	2121.68	1686.96	3778.38	4526.75	2690.27	473.97	359.42	285.40	472.55	17579.44 MCM

MOMENTARY PEAK 2249.99 CMS, AT 123.19 M (MSL), AT 6.00 HOURS, ON SEP 26, 1980

RUNOFF YIELD 11.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 47.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT BAN KAENG KO, CHAIYAPHUM (E.21)

LOCATION — LAT. 15°-45'-07" N., LONG. 102°-15'-24" E., ON LEFT BANK ABOUT 75 METERS UPSTREAM FROM THE BRIDGE AT BAN KAENG KO, AMPHOE MUANG, CHAIYAPHUM.

DRAINAGE AREA — 8,912 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +9.433 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1955-1957, 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968-1971, 1973-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968-1971, 1973-1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +6.75 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1974.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

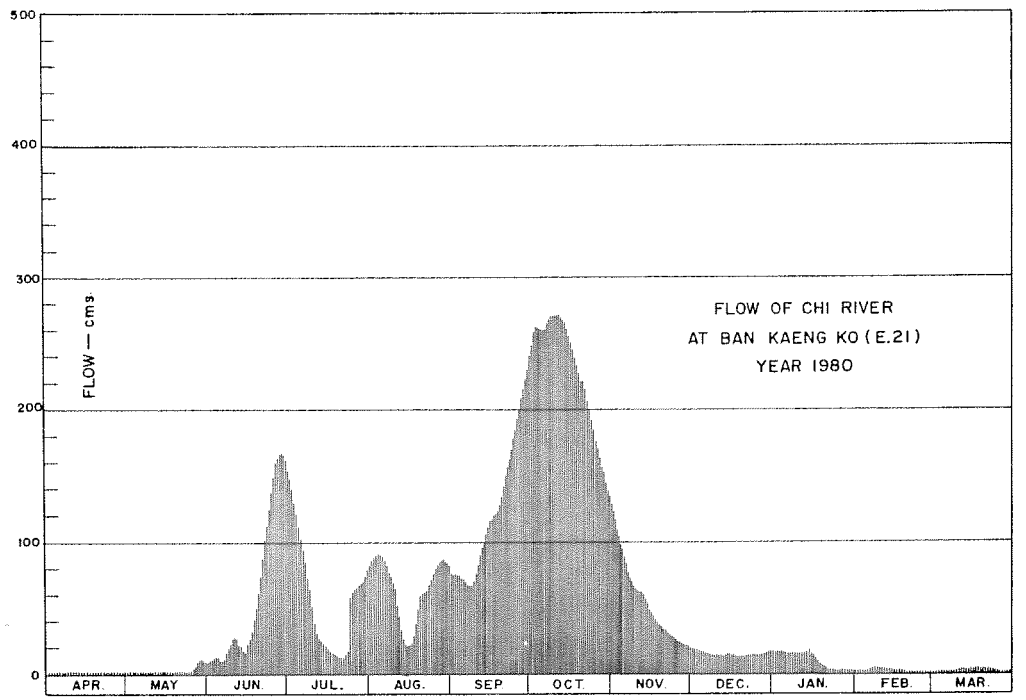
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.21	1.20	1.64	6.37	4.11	3.79	8.55	5.48	1.95	1.85	1.37	1.30	
2	1.22	1.20	1.71	6.17	4.29	3.75	8.77	5.24	1.94	1.85	1.38	1.30	
3	1.22	1.21	1.78	5.86	4.41	3.76	8.88	5.00	1.92	1.85	1.38	1.30	
4	1.22	1.32	1.75	5.50	4.45	3.72	8.87	4.74	1.90	1.84	1.39	1.30	
5	1.23	1.33	1.70	5.13	4.42	3.62	8.81	4.47	1.89	1.84	1.38	1.31	
6	1.24	1.32	1.66	4.79	4.32	3.50	8.81	4.17	1.87	1.84	1.38	1.33	
7	1.23	1.32	1.75	4.36	4.17	3.34	8.90	3.79	1.86	1.84	1.39	1.32	
8	1.22	1.32	1.95	3.86	3.94	3.18	8.96	3.41	1.85	1.83	1.40	1.32	
9	1.22	1.32	2.04	3.24	3.64	3.33	9.03	3.15	1.84	1.83	1.41	1.32	
10	1.24	1.33	2.11	2.74	3.23	3.70	9.04	2.99	1.84	1.84	1.41	1.36	
11	1.27	1.27	2.13	2.41	2.81	4.06	9.03	2.88	1.84	1.84	1.41	1.36	
12	1.28	1.23	2.08	2.24	2.42	4.39	9.00	2.81	1.83	1.84	1.38	1.39	
13	1.28	1.24	1.99	2.15	2.18	4.72	8.96	2.72	1.83	1.84	1.37	1.39	
14	1.27	1.24	1.91	2.05	2.07	5.00	8.88	2.62	1.83	1.85	1.37	1.38	
15	1.28	1.23	1.86	2.01	2.02	5.23	8.79	2.52	1.83	1.85	1.36	1.37	
16	1.28	1.24	1.95	1.95	2.00	5.36	8.67	2.45	1.82	1.77	1.37	1.39	
17	1.28	1.26	2.11	1.91	2.02	5.42	8.51	2.38	1.81	1.71	1.38	1.40	
18	1.27	1.27	2.34	1.88	2.23	5.48	8.33	2.33	1.81	1.64	1.35	1.41	
19	1.26	1.29	2.70	1.86	2.55	5.67	8.15	2.30	1.81	1.58	1.30	1.39	
20	1.25	1.30	3.48	1.82	2.74	5.93	7.99	2.25	1.81	1.51	1.30	1.37	
21	1.26	1.28	4.29	1.78	2.78	6.13	7.99	2.24	1.81	1.44	1.31	1.35	
22	1.26	1.28	4.84	1.78	2.85	6.39	7.58	2.21	1.82	1.42	1.30	1.35	
23	1.25	1.28	5.17	1.80	3.09	6.70	7.39	2.18	1.82	1.42	1.30	1.34	
24	1.24	1.28	5.53	2.16	3.46	6.95	7.20	2.15	1.82	1.42	1.30	1.32	
25	1.24	1.27	6.01	2.68	3.83	7.17	7.03	2.11	1.82	1.42	1.30	1.30	
26	1.24	1.32	6.35	2.99	4.06	7.38	6.82	2.06	1.80	1.42	1.30	1.27	
27	1.24	1.55	6.55	3.11	4.20	7.64	6.57	2.03	1.80	1.41	1.31	1.27	
28	1.25	1.70	6.65	3.21	4.26	7.84	6.31	2.02	1.82	1.37	1.31	1.27	
29	1.25	1.73	6.67	3.41	4.22	8.02	6.06	2.00	1.83	1.37		1.27	
30	1.22	1.66	6.56	3.64	4.13	8.25	5.85	1.98	1.85	1.36		1.26	
31		1.54		3.88	3.96		5.68		1.86	1.36		1.26	
MEAN	1.25	1.34	3.31	3.19	3.38	5.31	8.05	2.96	1.84	1.65	1.35	1.33	
MAX	1.28	1.73	6.67	6.37	4.45	8.25	9.04	5.48	1.95	1.85	1.41	1.41	9.04
MIN	1.21	1.20	1.64	1.78	2.00	3.18	5.68	1.98	1.80	1.36	1.30	1.26	1.20

ANNUAL MAX MOMENTARY GAGE HEIGHT — 9.04 M (A.D), AT 12.00 HOURS, ON OCT 10, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -1.13 M (A.D)

LEFT BANK ELEVATION — 9.04 M (A.D)

RIGHT BANK ELEVATION — 8.74 M (A.D), DRAINAGE AREA 8912 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.00	8.20	155.62	82.25	75.80	246.50	122.80	19.00	15.00	2.40	1.00	
2	0.20	0.00	10.30	147.72	86.75	75.00	257.50	114.40	18.60	15.00	2.60	1.00	
3	0.20	0.10	12.40	136.10	89.75	75.20	263.00	107.00	17.80	15.00	2.60	1.00	
4	0.20	1.40	11.50	123.50	90.75	74.40	262.50	99.20	17.00	14.60	2.80	1.00	
5	0.30	1.60	10.00	110.90	90.00	72.40	259.50	91.25	16.60	14.60	2.60	1.20	
6	0.40	1.40	8.80	100.70	87.50	70.00	259.50	83.75	15.80	14.60	2.60	1.60	
7	0.30	1.40	11.50	88.50	83.75	67.60	264.00	75.80	15.40	14.60	2.80	1.40	
8	0.20	1.40	19.00	77.20	78.80	65.20	267.00	68.65	15.00	14.20	3.00	1.40	
9	0.20	1.40	22.80	66.10	72.80	67.45	270.50	64.75	14.60	14.20	3.20	1.40	
10	0.40	1.60	25.95	60.40	65.95	74.00	271.00	62.90	14.60	14.60	3.20	2.20	
11	0.70	0.70	26.85	41.60	61.10	81.20	270.50	61.80	14.60	14.60	3.20	2.20	
12	0.80	0.30	24.60	32.00	42.20	89.25	269.00	61.10	14.20	14.60	2.60	2.80	
13	0.80	0.40	20.60	27.75	29.10	98.60	267.00	60.20	14.20	14.60	2.40	2.80	
14	0.70	0.40	17.40	23.25	24.15	107.00	263.00	54.40	14.20	15.00	2.40	2.60	
15	0.80	0.30	15.40	21.45	21.90	114.05	258.50	48.20	14.20	15.00	2.20	2.40	
16	0.80	0.40	19.00	19.00	21.00	118.60	252.50	44.00	13.80	12.10	2.40	2.80	
17	0.80	0.60	25.95	17.40	21.90	120.70	244.50	39.80	13.40	10.30	2.60	3.00	
18	0.70	0.70	37.40	16.20	31.50	122.80	235.50	36.80	13.40	8.20	2.00	3.20	
19	0.60	0.90	60.00	15.40	50.00	129.45	226.50	35.00	13.40	6.60	1.00	2.80	
20	0.50	1.00	69.70	13.80	60.40	138.55	219.65	32.50	13.40	5.20	1.00	2.40	
21	0.60	0.80	86.75	12.40	60.80	146.14	219.65	32.00	13.40	3.80	1.20	2.00	
22	0.60	0.80	102.20	12.40	61.50	156.41	203.45	30.50	13.80	3.40	1.00	2.00	
23	0.50	0.80	112.10	13.00	63.90	168.67	195.94	29.10	13.80	3.40	1.00	1.80	
24	0.40	0.80	124.55	28.20	69.40	178.55	188.43	27.75	13.80	3.40	1.00	1.40	
25	0.40	0.70	141.40	58.60	76.60	187.24	181.71	25.95	13.80	3.40	1.00	1.00	
26	0.40	1.40	154.83	62.90	81.20	195.54	173.41	23.70	13.00	3.40	1.00	0.70	
27	0.40	6.00	162.74	64.15	84.50	205.82	163.53	22.35	13.00	3.20	1.20	0.70	
28	0.50	10.00	166.69	65.65	86.00	213.72	153.25	21.90	13.80	2.40	1.20	0.70	
29	0.50	10.90	167.48	68.65	85.00	220.84	143.37	21.00	14.20	2.40		0.70	
30	0.20	8.80	163.13	72.80	82.75	231.50	135.75	20.20	15.00	2.20		0.60	
31		8.20		77.60	79.20		129.80		15.40	2.20		0.60	
TOTAL	14.20	65.20	1839.22	1830.94	2022.40	3741.68	7015.94	1618.75	456.20	295.80	58.20	52.40	19010.91 CMSDAY
MEAN	0.47	2.10	61.31	59.06	65.24	124.72	226.32	53.96	14.72	9.54	2.08	1.69	52.08 CMS
MAX	0.80	10.90	167.48	155.62	90.75	231.50	271.00	122.80	19.00	15.00	3.20	3.20	271.00 CMS
MIN	0.10	0.00	8.20	12.40	21.00	65.20	129.80	20.20	13.00	2.20	1.00	0.60	0.00 CMS
RUNOFF	1.227	5.633	158.908	158.193	174.735	323.281	606.177	139.860	39.416	25.557	5.028	4.527	1642.542 MCM

MOMENTARY PEAK 271.00 CMS, AT 9.04 M (A.D), AT 12.00 HOURS, ON OCT 10, 1980

RUNOFF YIELD 5.34 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 30.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT BAN KHAI, CHAIYAPHUM (E.23)

LOCATION — LAT. 15°-40'-49" N., LONG. 102°-00'-47" E., ON LEFT BANK AT HIGHWAY BRIDGE, BAN KHAI, AMPHOE MUANG, CHAIYAPHUM.

DRAINAGE AREA — 6,835 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +174.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +181.926 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1955-1956, 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968-1974

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +182.05 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 686 DISCHARGE MEASUREMENTS MADE DURING 1968-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

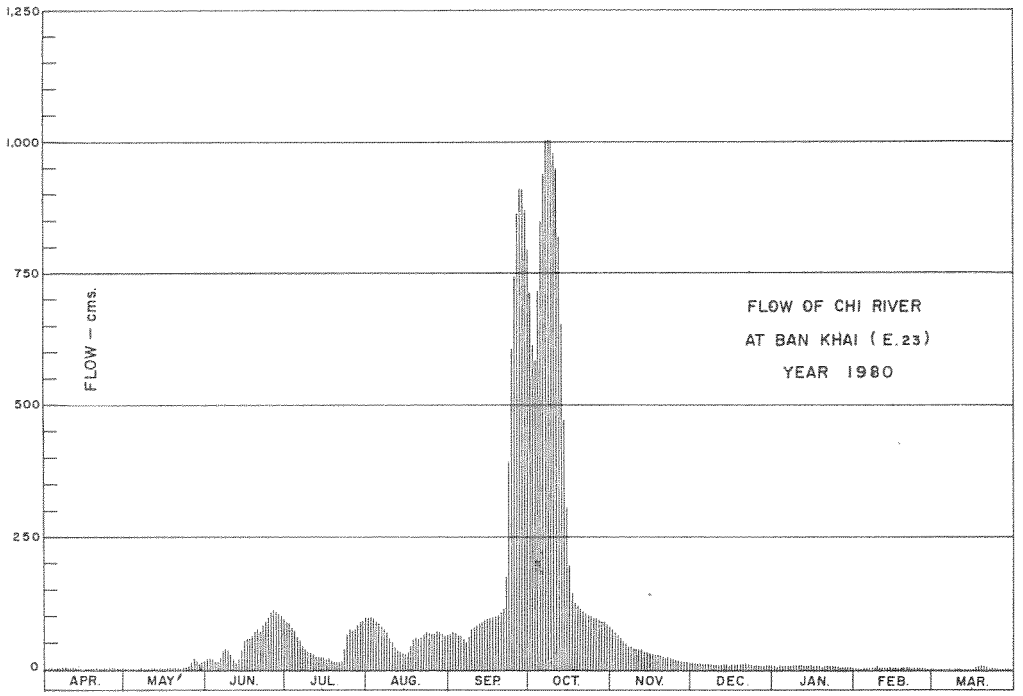
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	174.76	175.05	177.02	180.83	181.22	179.99	182.38	180.21	176.33	175.68	175.40	175.31	
2	175.00	175.40	177.03	180.67	181.16	180.02	182.33	179.96	176.30	175.68	175.39	175.27	
3	174.97	175.22	176.70	180.43	181.06	179.85	182.32	179.66	176.26	175.66	175.40	175.40	
4	174.96	175.08	176.50	180.04	180.93	179.64	182.39	179.35	176.22	175.66	175.39	175.42	
5	174.97	175.02	176.55	179.64	180.77	179.39	182.44	179.03	176.16	175.64	175.40	175.37	
6	174.95	174.99	177.32	179.13	180.56	179.07	182.46	178.68	176.10	175.64	175.39	175.32	
7	175.05	174.99	176.01	178.56	180.26	178.95	182.48	178.44	176.07	175.63	175.37	175.29	
8	175.12	174.99	178.10	178.09	179.83	179.77	182.48	178.25	176.06	175.61	175.35	175.29	
9	175.11	174.96	177.91	177.74	179.28	180.41	182.48	178.16	176.05	175.60	175.33	175.31	
10	175.10	175.00	177.20	177.52	178.72	180.55	182.47	178.18	176.03	175.60	175.34	175.33	
11	175.10	174.99	176.58	177.36	178.24	180.71	182.46	178.18	176.02	175.59	175.33	175.28	
12	175.10	175.06	176.39	177.27	177.86	180.88	182.42	178.02	176.00	175.58	175.32	175.26	
13	175.05	175.15	176.86	177.27	177.61	181.05	182.35	177.86	175.95	175.58	175.32	175.28	
14	175.03	175.12	178.06	177.18	177.56	181.15	182.22	177.73	175.93	175.57	175.28	175.28	
15	175.00	175.05	179.33	177.02	177.51	181.20	182.07	177.61	175.92	175.53	175.26	175.28	
16	174.99	175.11	179.56	176.89	177.73	181.20	181.92	177.48	175.92	175.52	175.29	175.35	
17	174.99	175.21	179.47	176.91	178.78	181.20	181.80	177.38	175.91	175.53	175.29	175.41	
18	174.95	175.16	179.68	176.80	179.62	181.23	181.70	177.27	175.89	175.51	175.32	175.63	
19	174.92	175.12	180.04	176.60	179.63	181.29	181.61	177.19	175.88	175.51	175.29	175.72	
20	174.91	175.12	180.34	176.52	179.46	181.39	181.54	177.12	175.86	175.50	175.28	175.55	
21	174.89	175.11	180.02	176.53	179.62	181.63	181.47	177.04	175.84	175.52	175.27	175.42	
22	174.88	175.07	180.80	176.79	179.94	181.99	181.39	177.02	175.83	175.50	175.26	175.32	
23	174.94	175.07	180.99	179.03	180.05	182.25	181.29	176.93	175.79	175.48	175.19	175.25	
24	174.95	175.20	181.21	180.22	179.94	182.35	181.18	176.74	175.77	175.48	175.19	175.23	
25	174.89	175.87	181.46	180.31	179.81	182.40	181.10	176.59	175.75	175.48	175.22	175.20	
26	174.86	176.70	181.52	180.23	180.03	182.43	181.07	176.54	175.74	175.48	175.24	175.19	
27	174.85	176.91	181.49	180.43	180.13	182.45	181.01	176.50	175.72	175.45	175.25	175.16	
28	174.88	176.83	181.37	180.76	180.07	182.45	180.92	176.45	175.71	175.43	175.28	175.14	
29	174.83	176.39	181.23	180.98	179.93	182.44	180.80	176.42	175.69	175.42		175.08	
30	174.79	176.39	181.04	181.14	179.74	182.43	180.62	176.37	175.67	175.40		175.09	
31		176.55		181.22	179.71		180.44		175.66	175.41		175.10	
MEAN	174.96	175.41	178.99	178.71	179.57	181.06	181.79	177.75	175.94	175.54	175.31	175.31	
MAX	175.12	176.91	181.52	181.22	181.22	182.45	182.48	180.21	176.33	175.68	175.40	175.72	182.48
MIN	174.76	174.96	176.39	176.52	177.51	178.95	180.44	176.37	175.66	175.40	175.19	175.08	174.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 182.48 M (MSL), AT 1.00 HOURS, ON OCT 10, 1980

ZERO GAGE AT BOTTOM ELEVATION 174.00 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 6835 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.3	1.8	21.7	88.2	100.5	70.5	718.4	74.7	12.8	6.1	3.8	3.2	
2	1.5	3.8	21.8	84.1	98.6	71.1	604.4	70.0	12.4	6.1	3.7	2.9	
3	1.3	2.6	17.3	78.9	95.4	68.0	581.6	64.6	12.0	5.9	3.8	3.8	
4	1.3	1.9	14.8	71.5	91.3	64.2	741.2	59.1	11.5	5.9	3.7	4.0	
5	1.3	1.6	15.4	64.2	86.6	59.8	882.3	53.7	10.9	5.8	3.8	3.6	
6	1.2	1.5	26.1	55.4	81.5	54.4	941.6	47.8	10.2	5.8	3.7	3.2	
7	1.8	1.5	36.7	45.7	75.6	52.3	1000.7	43.7	9.9	5.7	3.6	3.0	
8	2.1	1.5	38.1	37.9	67.6	66.6	1000.7	40.5	9.8	5.5	3.4	3.0	
9	2.1	1.3	35.1	32.5	58.0	78.5	1000.7	39.1	9.7	5.4	3.3	3.2	
10	2.0	1.5	24.3	29.2	48.4	81.3	971.1	39.4	9.5	5.4	3.4	3.3	
11	2.0	1.5	15.8	26.8	40.3	85.1	941.6	39.4	9.4	5.3	3.3	3.0	
12	2.0	1.8	13.5	25.4	34.4	89.8	823.2	36.8	9.2	5.2	3.2	2.9	
13	1.8	2.3	19.4	25.4	30.6	95.1	650.0	34.4	8.7	5.2	3.2	3.0	
14	1.7	2.1	37.5	24.0	29.8	98.3	412.8	32.4	8.5	5.2	3.0	3.0	
15	1.5	1.8	58.8	21.7	29.0	99.9	251.9	30.6	8.4	4.8	2.9	3.0	
16	1.5	2.1	62.8	19.9	32.4	99.9	162.8	28.6	8.4	4.8	3.0	3.4	
17	1.5	2.6	61.2	20.1	49.5	99.9	132.3	27.1	8.3	4.8	3.0	3.9	
18	1.2	2.3	64.9	18.6	63.9	100.9	122.0	25.4	8.1	4.7	3.2	5.7	
19	1.1	2.1	71.5	16.0	64.0	102.8	117.2	24.2	8.0	4.7	3.0	6.5	
20	1.0	2.1	77.2	15.0	61.0	106.9	113.6	23.1	7.8	4.6	3.0	5.0	
21	1.0	2.1	71.1	15.2	63.9	118.3	110.2	22.0	7.6	4.8	2.9	4.0	
22	0.9	1.8	87.3	18.5	69.6	191.5	106.9	21.7	7.5	4.6	2.9	3.2	
23	1.2	1.8	93.2	53.7	71.6	459.0	102.8	20.4	7.1	4.4	2.4	2.8	
24	1.2	2.5	100.2	74.9	69.6	650.0	99.3	17.8	6.9	4.4	2.4	2.7	
25	1.0	7.9	109.8	76.6	67.3	764.0	96.7	15.9	6.8	4.4	2.6	2.5	
26	0.8	17.3	112.5	75.1	71.3	852.8	95.7	15.3	6.7	4.4	2.7	2.4	
27	0.7	20.1	111.1	78.9	73.2	912.0	93.8	14.8	6.5	4.2	2.8	2.3	
28	0.9	16.4	106.0	86.3	72.0	912.0	91.0	14.2	6.4	4.0	3.0	2.2	
29	0.7	13.5	100.9	92.9	69.4	882.3	87.3	13.8	6.2	4.0		1.9	
30	0.4	13.5	94.8	98.0	66.0	852.8	82.8	13.2	6.0	3.8		2.0	
31		15.4		100.5	65.5		79.1		5.9	3.9		2.0	
TOTAL	39.0	152.0	1720.8	1571.1	1997.8	8240.0	13215.7	1003.7	267.1	153.8	88.7	100.6	28550.3 CMSDAY
MEAN	1.3	4.9	57.4	50.7	64.4	274.7	426.3	33.5	8.6	5.0	3.2	3.2	78.2 CMS
MAX	2.1	20.1	112.5	100.5	100.5	912.0	1000.7	74.7	12.8	6.1	3.8	6.5	1000.7 CMS
MIN	0.3	1.3	13.5	15.0	29.0	52.3	79.1	13.2	5.9	3.8	2.4	1.9	0.3 CMS
RUNOFF	3.37	13.13	148.68	135.74	172.61	711.94	1141.83	86.72	23.08	13.29	7.66	8.69	2466.74 MCM

MOMENTARY PEAK 1000.75 CMS, AT 182.48 M (MSL), AT 1.00 HOURS, ON OCT 10, 1980

RUNOFF YIELD 11.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 146.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

LAM PHAN AT BAN HUA KHUA, KALASIN (E.26)

LOCATION — LAT. 16°-24'-36" N., LONG. 103°-28'-15" E., ON RIGHT BANK AT THE BRIDGE ACROSS LAM PHAN, AMPHOE YANG TALAT, KALASIN.

DRAINAGE AREA — 6,565 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +134.633 M.(M.S.L.)

BENCH MARK — B.M.-R.I.D.

LOCATION — ABOUT 300 METERS FROM STAFF GAGE LINE.

ELEVATION — +142.075 M.(M.S.L.)

GAGE READING FREQUENCY — 4-TIME DAILY READINGS AT 06.00, 10.00, 14.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 4 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1954 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971-1976

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971-1976

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +139.79 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 103 DISCHARGE MEASUREMENTS MADE DURING 1971-1976. FLOW REGULATED BY LAM PAO DAM.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

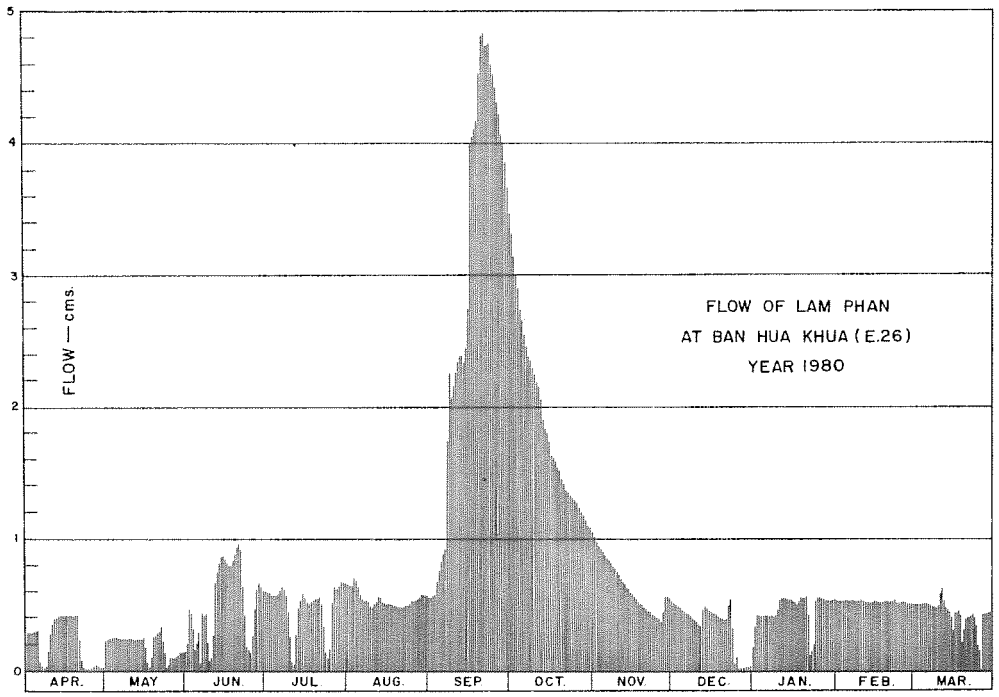
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	135.95	135.82	136.48	136.80	136.96	136.73	140.52	137.88	136.61	136.34	136.66	136.61	
2	135.96	135.84	136.48	136.77	136.91	136.73	140.43	137.79	136.58	136.33	136.66	136.61	
3	135.98	135.87	135.99	136.73	137.10	136.83	140.36	137.72	136.54	136.31	136.67	136.60	
4	135.99	135.87	135.53	136.73	137.00	137.11	140.27	137.64	136.51	136.33	136.66	136.59	
5	135.96	135.87	135.99	136.78	136.80	137.43	140.17	137.58	136.47	136.35	136.66	136.58	
6	134.96	135.84	135.02	136.87	136.69	137.65	140.11	137.53	136.41	136.35	136.67	136.56	
7	134.85	135.83	136.40	136.91	136.66	139.28	140.06	137.44	136.37	136.35	136.67	136.52	
8	134.78	135.83	136.40	136.79	136.66	139.88	140.02	137.38	136.32	136.35	136.67	136.51	
9	135.89	135.83	135.08	136.63	136.59	139.72	139.95	137.26	136.27	136.34	136.66	136.51	
10	136.12	135.83	135.14	135.46	136.56	139.85	139.88	137.23	136.21	136.63	136.66	136.55	
11	136.28	135.80	136.88	135.04	136.57	139.97	139.79	137.14	136.16	136.69	136.64	136.87	
12	136.31	135.81	137.12	135.90	136.79	140.01	139.65	137.04	136.12	136.70	136.64	136.89	
13	136.34	135.81	137.40	136.60	136.73	139.99	139.51	136.94	136.51	136.70	136.63	136.52	
14	136.36	135.81	137.48	136.73	136.63	140.15	139.41	136.89	136.47	136.70	136.64	136.46	
15	136.36	135.83	137.51	136.73	136.61	140.27	139.30	136.83	136.43	136.65	136.66	136.39	
16	136.37	135.10	137.39	136.66	136.61	140.74	139.09	136.77	136.38	136.64	136.66	136.02	
17	136.35	134.88	137.33	136.64	136.61	140.77	139.09	136.69	136.37	136.64	136.65	136.40	
18	136.33	134.83	137.24	136.63	136.58	140.80	139.01	136.64	136.33	136.71	136.61	136.43	
19	136.33	135.92	137.52	136.66	136.56	140.91	138.91	136.61	136.29	136.71	136.62	135.70	
20	136.33	135.93	137.78	136.71	136.56	141.00	138.81	136.52	136.28	136.70	136.63	136.25	
21	135.70	135.96	137.60	136.71	136.56	141.01	138.72	136.47	136.24	136.70	136.62	136.35	
22	134.82	136.04	136.33	136.55	136.56	140.98	138.62	136.43	136.68	135.32	136.62	136.36	
23	134.78	135.72	135.64	135.52	136.56	140.98	138.54	136.40	136.35	135.65	136.62	136.37	
24	134.76	134.85	135.57	135.25	136.57	140.94	138.51	136.37	134.98	136.69	136.61	136.37	
25	134.76	135.22	135.39	136.18	136.62	140.89	138.48	136.32	134.76	136.71	136.62	135.69	
26	134.87	135.27	135.90	136.83	136.65	140.84	138.44	136.28	134.70	136.70	136.63	134.81	
27	134.87	135.31	136.85	136.91	136.64	140.79	138.32	136.24	134.69	136.68	136.62	136.29	
28	134.90	135.36	136.96	136.89	136.71	140.74	138.24	136.73	134.68	136.66	136.61	136.37	
29	134.84	135.49	136.87	137.03	136.75	140.67	138.12	136.72	134.68	136.65		136.38	
30	134.82	135.47	136.83	137.02	136.77	140.59	138.05	136.67	134.67	136.65		136.39	
31		135.49		136.95	136.73		137.95		135.26	136.67		136.40	
MEAN	135.63	135.62	136.54	136.54	136.69	139.81	139.24	136.94	135.98	136.50	136.64	136.37	
MAX	136.37	136.04	137.78	137.03	137.10	141.01	140.52	137.88	136.68	136.71	136.67	136.89	141.01
MIN	134.76	134.83	135.02	135.04	136.56	136.73	137.95	136.24	134.67	135.32	136.61	134.81	134.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 141.01 M (MSL), AT 6.00 HOURS, ON SEP 21, 1980

ZERO GAGE AT BOTTOM ELEVATION 134.63 M (MSL), RIVER BED 133.78 M (MSL)

LEFT BANK ELEVATION 139.79 M (MSL)

RIGHT BANK ELEVATION 140.82 M (MSL), DRAINAGE AREA 6565 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	28.50	24.60	46.30	59.00	65.40	56.20	335.99	102.20	51.40	41.40	53.40	51.40	
2	28.80	25.20	46.30	57.80	63.40	56.20	312.49	98.60	50.20	41.05	53.40	51.40	
3	29.40	26.10	29.70	56.20	71.00	60.20	296.99	95.80	48.60	40.35	53.80	51.00	
4	29.70	26.10	16.25	56.20	67.00	71.40	279.90	92.60	47.40	41.05	53.40	50.60	
5	28.80	26.10	29.70	58.20	59.00	84.20	263.50	90.20	45.95	41.75	53.40	50.20	
6	4.70	25.20	5.90	61.80	54.60	93.00	254.49	88.20	43.85	41.75	53.80	49.40	
7	2.50	24.90	43.50	63.40	53.40	173.60	247.00	84.60	42.45	41.75	53.80	47.80	
8	1.20	24.90	43.50	58.60	53.40	224.00	240.99	82.20	40.70	41.75	53.80	47.40	
9	26.70	24.90	7.10	52.20	50.60	208.00	231.99	77.40	38.95	41.40	53.40	47.40	
10	33.70	24.90	8.30	14.70	49.40	221.00	224.00	76.20	36.85	52.20	53.40	49.00	
11	39.30	24.00	62.20	6.30	49.80	234.40	215.00	72.60	35.10	54.60	52.60	61.80	
12	40.35	24.30	71.80	27.00	58.60	239.49	201.00	68.60	33.70	55.00	52.60	62.60	
13	41.40	24.30	93.00	51.00	56.20	236.80	189.70	64.60	47.40	55.00	52.20	47.80	
14	42.10	24.30	86.20	56.20	52.20	260.50	182.70	62.60	45.95	55.00	52.60	45.60	
15	42.10	24.90	87.40	56.20	51.40	279.90	175.00	60.20	44.55	53.00	53.40	43.15	
16	42.45	7.50	82.60	53.40	51.40	401.99	161.40	57.80	42.80	52.60	53.40	30.60	
17	41.75	3.10	80.20	52.60	51.40	410.99	161.40	54.60	42.45	52.60	53.00	43.50	
18	41.05	2.10	80.60	52.20	50.20	419.99	156.60	52.60	41.05	55.40	51.40	44.55	
19	41.05	27.60	87.80	53.40	49.40	452.99	151.50	51.40	39.65	55.40	51.80	21.00	
20	41.05	27.90	98.20	55.40	49.40	480.00	146.50	47.80	39.30	55.00	52.20	38.25	
21	21.00	28.80	91.00	55.40	49.40	482.99	142.00	45.95	37.90	55.00	51.80	41.75	
22	1.90	31.20	41.05	49.00	49.40	473.99	137.00	44.55	54.20	11.90	51.80	42.10	
23	1.20	21.60	19.20	16.00	49.40	473.99	133.00	43.50	41.75	19.50	51.80	42.45	
24	0.90	2.50	17.25	10.50	49.80	461.99	131.50	42.45	5.10	54.60	51.40	42.45	
25	0.90	9.90	13.30	35.80	51.80	446.99	130.00	40.70	0.90	55.40	51.80	20.70	
26	2.90	10.90	27.00	60.20	53.00	431.99	128.00	39.30	0.00	55.00	52.20	1.70	
27	2.90	11.70	61.00	63.40	52.60	416.99	122.00	37.90	0.00	54.20	51.80	39.65	
28	3.50	12.70	65.40	62.60	55.40	401.99	118.00	56.20	0.00	53.40	51.40	42.45	
29	2.30	15.30	61.80	68.20	57.00	380.99	112.00	55.80	0.00	53.00		42.80	
30	1.90	14.90	60.20	67.80	57.80	356.99	109.00	53.80	0.00	53.00		43.15	
31		15.30		65.00	56.20		105.00		10.70	53.80		43.50	
TOTAL	666.00	617.70	1553.75	1555.70	1689.00	8993.74	5795.64	1940.95	1008.85	1486.85	1474.80	1337.15	28120.10 CMSDAY
MEAN	22.20	19.93	51.79	50.18	54.48	299.79	186.96	64.70	32.54	47.96	52.67	43.13	77.04 CMS
MAX	42.45	31.20	98.20	68.20	71.00	482.99	335.99	102.20	54.20	55.40	53.80	62.60	482.99 CMS
MIN	0.90	2.10	5.90	6.30	49.40	56.20	105.00	37.90	0.00	11.90	51.40	1.70	0.00 CMS
RUNOFF	57.542	53.369	134.244	134.412	145.929	777.059	500.743	167.698	87.165	128.464	127.423	115.530	2429.577 MCM

MOMENTARY PEAK 482.99 CMS, AT 141.01 M (MSL), AT 6.00 HOURS, ON SEP 21, 1980

RUNOFF YIELD 11.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 73.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

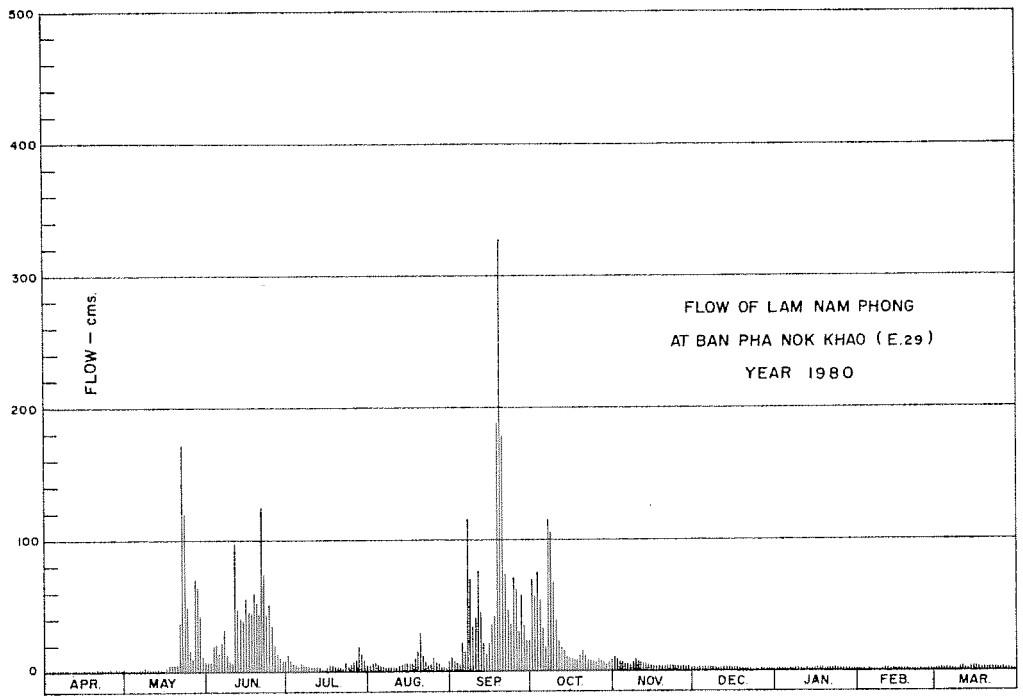
LAM NAM PHONG AT BAN PHA NOK KHAO, LOEI (E.29)

LOCATION	LAT. 16°-50'-45" N., LONG. 101°-56'-54" E., ON RIGHT BANK ABOUT 400 METERS FROM THE BRIDGE IN THE FORESTRY OFFICE, BAN PHA NOK KHAO, AMPHOE PHU KRADUNG, LOEI.
DRAINAGE AREA	945 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+225.00 M. (M.S.L.)
BENCH MARK	B.M.-R.I.D.
LOCATION	INFRONT OF THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+238.429 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1956-1958, 1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 82 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	225.54	225.67	226.39	226.91	226.12	226.75	229.61	226.74	225.88	225.72	225.66	225.61	
2	225.53	225.62	226.52	226.50	226.29	226.53	229.11	226.47	225.87	225.72	225.66	225.62	
3	225.55	225.59	227.43	226.29	226.27	226.33	229.86	226.37	225.85	225.71	225.66	225.62	
4	225.56	225.67	227.39	226.18	226.21	226.32	229.00	226.31	225.85	225.71	225.66	225.61	
5	225.54	225.75	227.04	226.11	226.07	227.53	227.76	226.27	225.85	225.71	225.65	225.60	
6	225.54	225.71	227.68	226.26	226.00	227.10	227.31	226.23	225.85	225.71	225.65	225.60	
7	225.52	225.31	228.07	226.18	225.95	231.16	231.12	226.21	225.85	225.70	225.64	225.60	
8	225.54	225.86	226.72	226.11	225.90	229.57	230.89	226.37	225.84	225.70	225.63	225.59	
9	225.54	225.70	226.36	226.04	225.90	227.93	229.14	226.58	225.84	225.70	225.63	225.59	
10	225.54	225.63	226.36	226.02	226.00	228.85	227.95	226.45	225.84	225.70	225.63	225.86	
11	225.55	225.60	230.60	226.01	226.03	229.85	227.45	226.28	225.84	225.70	225.63	225.82	
12	225.54	225.56	228.75	225.97	226.06	228.10	227.17	226.22	225.83	225.70	225.63	225.74	
13	225.53	225.66	226.53	225.95	226.16	227.24	226.97	226.17	225.81	225.70	225.63	225.71	
14	225.52	225.75	228.32	225.92	226.32	226.95	226.80	226.14	225.80	225.70	225.62	225.85	
15	225.51	225.68	229.08	225.88	226.34	227.63	226.68	226.11	225.81	225.69	225.62	225.85	
16	225.50	225.71	228.68	225.89	226.31	228.39	226.60	226.07	225.84	225.68	225.62	225.80	
17	225.52	226.19	228.69	226.18	226.51	228.66	226.56	226.05	225.82	225.68	225.62	225.73	
18	225.52	226.08	229.24	226.08	226.79	233.39	226.51	226.03	225.80	225.68	225.62	225.70	
19	225.51	226.23	228.95	226.02	227.11	235.74	226.91	226.01	225.78	225.68	225.62	225.66	
20	225.50	226.13	228.67	226.00	227.85	230.46	227.09	226.01	225.78	225.68	225.62	225.65	
21	225.49	228.22	231.52	225.94	226.70	229.67	226.67	226.01	225.77	225.68	225.61	225.64	
22	225.49	232.77	228.94	226.04	226.35	228.66	226.49	225.98	225.75	225.68	225.61	225.63	
23	225.49	231.01	228.62	226.26	226.23	228.22	226.46	225.97	225.74	225.68	225.60	225.62	
24	225.48	227.74	228.93	226.09	226.33	229.73	226.42	225.96	225.74	225.68	225.60	225.62	
25	225.48	226.81	228.08	226.30	226.81	229.36	226.43	225.95	225.74	225.68	225.60	225.61	
26	225.62	226.69	227.15	226.59	226.35	227.92	226.61	225.94	225.74	225.67	225.59	225.61	
27	225.73	229.65	226.83	226.69	226.18	229.19	226.42	225.92	225.73	225.67	225.58	225.61	
28	225.91	229.33	226.65	227.30	226.03	227.84	226.34	225.92	225.72	225.67	225.59	225.60	
29	225.73	227.28	226.52	226.65	226.09	227.51	226.30	225.91	225.72	225.67		225.60	
30	225.73	226.99	226.55	226.40	226.04	227.57	226.35	225.90	225.72	225.67		225.60	
31		226.37		226.23	226.73		226.67		225.72	225.67		225.60	
MEAN	225.56	226.70	227.97	226.23	226.32	228.67	227.47	226.15	225.80	225.69	225.62	225.66	
MAX	225.91	232.77	231.52	227.30	227.85	235.74	231.12	226.74	225.88	225.72	225.66	225.86	235.74
MIN	225.48	225.31	226.36	225.88	225.90	226.32	226.30	225.90	225.72	225.67	225.58	225.59	225.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 236.52 M (MSL), AT 6:00 HOURS, ON SEP 19, 1980
ZERO GAGE AT BOTTOM ELEVATION 225.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 237.80 M (MSL)
RIGHT BANK ELEVATION 238.21 M (MSL), DRAINAGE AREA 945 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.85	1.35	7.30	13.65	4.60	11.45	68.97	11.32	2.56	1.60	1.30	1.05	
2	0.83	1.10	8.72	8.50	6.30	8.83	56.04	8.17	2.49	1.60	1.30	1.10	
3	0.88	0.98	21.74	6.30	6.10	6.70	75.72	7.10	2.35	1.55	1.30	1.10	
4	0.90	1.35	21.03	5.20	5.50	6.60	53.40	6.50	2.35	1.55	1.30	1.05	
5	0.85	1.75	15.60	4.50	4.10	23.54	27.68	6.10	2.35	1.55	1.25	1.00	
6	0.85	1.55	26.24	6.00	3.40	16.50	19.67	5.70	2.35	1.55	1.25	1.00	
7	0.80	0.28	33.40	5.20	3.05	114.32	113.04	5.50	2.35	1.50	1.20	1.00	
8	0.85	2.42	11.06	4.50	2.70	67.89	105.68	7.10	2.28	1.50	1.15	0.98	
9	0.85	1.50	7.00	3.80	2.70	30.74	56.76	9.38	2.28	1.50	1.15	0.98	
10	0.85	1.15	7.00	3.60	3.40	49.80	31.10	7.95	2.28	1.50	1.15	2.42	
11	0.88	1.00	96.40	3.50	3.70	75.45	22.10	6.20	2.28	1.50	1.15	2.14	
12	0.85	0.90	47.40	3.19	4.00	34.00	17.55	5.60	2.21	1.50	1.15	1.70	
13	0.83	1.30	42.60	3.05	5.00	18.60	14.55	5.10	2.07	1.50	1.15	1.55	
14	0.80	1.75	38.40	2.84	6.60	14.25	12.10	4.80	2.00	1.50	1.10	2.35	
15	0.78	1.40	55.32	2.56	6.80	25.34	10.56	4.50	2.07	1.45	1.10	2.35	
16	0.75	1.55	45.76	2.63	6.50	39.80	9.60	4.10	2.28	1.40	1.10	2.00	
17	0.80	5.30	45.98	5.20	8.61	45.32	9.16	3.90	2.14	1.40	1.10	1.65	
18	0.80	4.20	59.20	4.20	11.97	195.89	8.61	3.70	2.00	1.40	1.10	1.50	
19	0.78	5.70	52.20	3.60	16.65	327.56	13.65	3.50	1.90	1.40	1.10	1.30	
20	0.75	4.70	45.54	3.40	29.30	92.14	16.35	3.50	1.90	1.40	1.10	1.25	
21	0.73	36.40	125.84	2.98	10.80	70.59	10.44	3.50	1.85	1.40	1.05	1.20	
22	0.73	171.43	51.96	3.80	6.90	45.32	8.39	3.26	1.75	1.40	1.05	1.15	
23	0.73	109.52	44.44	6.00	5.70	36.40	8.06	3.19	1.70	1.40	1.00	1.10	
24	0.70	27.32	51.72	4.30	6.70	72.21	7.62	3.12	1.70	1.40	1.00	1.10	
25	0.70	12.24	33.60	6.40	12.24	62.26	7.73	3.05	1.70	1.40	1.00	1.05	
26	1.10	10.68	17.25	9.49	6.90	30.56	9.72	2.98	1.70	1.35	0.98	1.05	
27	1.65	70.05	12.52	10.68	5.20	57.96	7.62	2.84	1.65	1.35	0.95	1.05	
28	2.77	61.48	10.20	19.50	3.70	29.12	6.80	2.84	1.60	1.35	0.98	1.00	
29	1.65	19.20	8.72	10.20	4.30	23.18	6.40	2.77	1.60	1.35		1.00	
30	1.65	9.49	9.05	7.40	3.80	24.26	6.90	2.70	1.60	1.35		1.00	
31		7.10		5.70	11.19		10.44		1.60	1.35		1.00	
TOTAL	28.94	576.14	1053.19	181.87	218.41	1656.58	832.41	149.97	62.94	44.95	31.51	41.17	4878.07 CMSDAY
MEAN	0.96	18.59	35.11	5.87	7.05	55.22	26.85	5.00	2.03	1.45	1.13	1.33	13.36 CMS
MAX	2.77	171.43	125.84	19.50	29.30	327.56	113.04	11.32	2.56	1.60	1.30	2.42	327.56 CMS
MIN	0.70	0.28	7.00	2.56	2.70	6.60	6.40	2.70	1.60	1.35	0.95	0.98	0.28 CMS
RUNOFF	2.500	49.778	90.996	15.714	18.871	143.128	71.920	12.957	5.438	3.884	2.722	3.557	421.465 MCM

MOMENTARY PEAK 383.34 CMS, AT 236.52 M (MSL), AT 6.00 HOURS, ON SEP 19, 1980

RUNOFF YIELD 14.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 405.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

CHI RIVER AT BAN NONG O, CHAIYAPHUM (E.32A)

LOCATION — LAT. 15°-34'-40" N., LONG. 101°-42'-40" E., ON LEFT BANK ABOUT 500 METERS NORTH OF BAN NONG O, ABOUT 600 METERS UPSTREAM FROM E.32 GAGING STATION, AMPHOE BAN KHWAO, CHAIYAPHUM.

DRAINAGE AREA — 2,906 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +198.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +210.771 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

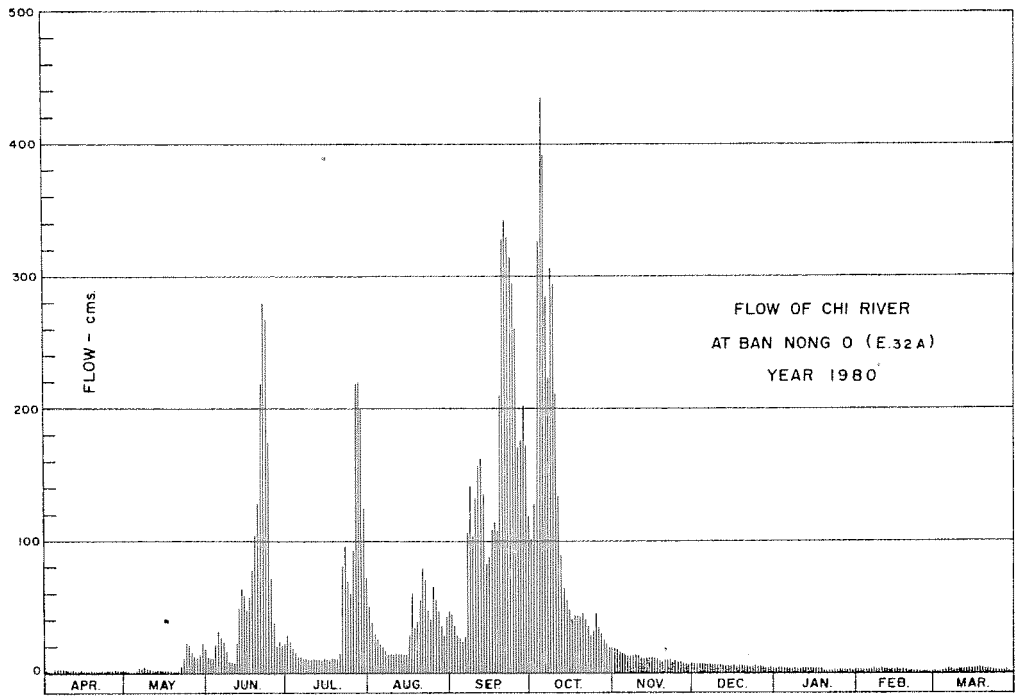
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 176 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	198.65	198.65	199.43	200.44	201.18	200.99	203.11	199.93	199.16	198.98	198.83	198.72	
2	198.66	198.63	199.46	200.15	200.71	200.56	203.86	199.84	199.16	198.96	198.83	198.72	
3	198.75	198.63	199.44	199.91	200.40	200.31	206.32	199.77	199.16	198.94	198.83	198.72	
4	198.82	198.61	200.14	199.71	200.20	200.15	208.42	199.70	199.14	198.94	198.83	198.81	
5	198.77	198.74	200.52	199.53	200.02	200.10	209.10	199.65	199.13	198.94	198.83	198.82	
6	198.84	198.81	200.23	199.49	199.87	200.39	207.91	199.63	199.12	198.93	198.81	198.80	
7	198.79	198.72	200.12	199.43	199.77	203.09	206.03	199.59	199.12	198.93	198.81	198.78	
8	198.78	198.96	199.52	199.40	199.69	204.13	207.36	199.58	199.09	198.92	198.81	198.76	
9	198.74	198.86	199.29	199.38	199.65	203.08	207.15	199.60	199.09	198.92	198.80	198.80	
10	198.72	198.73	199.24	199.40	199.64	204.30	205.29	199.58	199.09	198.91	198.80	198.80	
11	198.71	198.68	199.25	199.48	199.64	204.66	203.76	199.56	199.09	198.91	198.80	198.79	
12	198.70	198.66	200.07	199.42	199.67	204.67	202.43	199.52	199.08	198.90	198.80	198.91	
13	198.71	198.66	201.59	199.38	199.69	203.75	201.84	199.49	199.06	198.89	198.80	198.92	
14	198.70	198.75	201.81	199.33	199.69	202.42	201.43	199.46	199.05	198.88	198.80	198.92	
15	198.68	198.77	201.06	199.42	199.73	202.59	201.14	199.43	199.04	198.88	198.80	198.93	
16	198.68	198.74	200.75	199.40	200.57	203.17	200.92	199.40	199.04	198.88	198.79	198.93	
17	198.68	198.74	201.35	199.33	201.62	203.38	201.05	199.37	199.04	198.87	198.79	198.92	
18	198.63	198.74	202.69	199.38	200.64	203.20	201.01	199.35	199.04	198.86	198.79	198.88	
19	198.65	198.73	203.67	199.38	200.86	206.55	200.97	199.33	199.03	198.85	198.76	198.84	
20	198.66	198.76	204.80	199.40	201.72	207.72	201.11	199.33	199.02	198.85	198.76	198.82	
21	198.64	198.87	205.67	199.82	202.31	207.88	200.83	199.31	199.02	198.85	198.76	198.80	
22	198.63	199.18	206.97	202.61	202.00	207.68	200.65	199.29	199.01	198.84	198.75	198.80	
23	198.64	199.61	206.79	202.87	201.13	207.48	200.44	199.27	199.01	198.84	198.73	198.78	
24	198.63	200.11	203.97	201.90	200.89	207.15	200.63	199.26	199.01	198.84	198.73	198.76	
25	198.62	199.97	201.50	201.67	201.84	206.41	201.06	199.24	199.00	198.84	198.72	198.73	
26	198.64	199.55	200.76	203.14	201.38	204.94	200.54	199.23	199.00	198.85	198.71	198.73	
27	198.64	199.53	200.00	205.96	201.21	205.06	200.37	199.21	199.00	198.85	198.72	198.72	
28	198.63	199.55	200.10	205.96	200.75	205.61	200.12	199.20	199.00	198.85	198.72	198.72	
29	198.65	199.67	200.06	204.22	200.35	204.57	199.99	199.18	199.00	198.85		198.72	
30	198.66	200.12	200.14	202.81	200.98	203.43	199.90	199.17	198.99	198.84		198.70	
31		199.75		201.66	201.07		199.91		198.98	198.83		198.70	
MEAN	198.69	199.05	201.35	200.75	200.61	203.98	202.73	199.45	199.06	198.88	198.78	198.80	
MAX	198.84	200.12	206.97	205.96	202.31	207.88	209.10	199.93	199.16	198.98	198.83	198.93	209.10
MIN	198.62	198.61	199.24	199.33	199.64	200.10	199.90	199.17	198.98	198.83	198.71	198.70	198.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 209.20 M (MSL), AT 10.00 HOURS, ON OCT 5, 1980
ZERO GAGE AT BOTTOM ELEVATION 198.00 M (MSL), RIVER BED 197.58 M (MSL)
LEFT BANK ELEVATION 210.61 M (MSL)
RIGHT BANK ELEVATION 210.90 M (MSL), DRAINAGE AREA 2096 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.50	10.95	29.80	48.00	43.25	104.85	19.60	6.90	4.20	2.30	1.20	
2	0.60	0.30	11.40	24.00	36.25	32.50	131.10	17.80	6.90	3.90	2.30	1.20	
3	1.50	0.30	11.10	19.20	29.00	27.20	239.10	16.40	6.90	3.60	2.30	1.20	
4	2.20	0.10	23.80	15.20	25.00	24.00	382.00	15.00	6.60	3.60	2.30	2.10	
5	1.70	1.40	31.50	12.45	21.40	23.00	434.00	14.25	6.45	3.60	2.30	2.20	
6	2.40	2.10	25.60	11.85	18.40	28.80	343.75	13.95	6.30	3.45	2.10	2.00	
7	1.90	1.20	23.40	10.95	16.40	104.15	223.15	13.35	6.30	3.45	2.10	1.80	
8	1.80	3.90	12.30	10.50	14.85	140.55	305.20	13.20	5.85	3.30	2.10	1.60	
9	1.40	2.60	8.85	10.20	14.25	103.80	291.25	13.50	5.85	3.30	2.00	2.00	
10	1.20	1.30	8.10	10.50	14.10	146.50	187.05	13.20	5.85	3.15	2.00	2.00	
11	1.10	0.80	8.25	11.70	14.10	159.90	127.60	12.90	5.85	3.15	2.00	1.90	
12	1.00	0.60	22.40	10.80	14.55	160.30	82.40	12.30	5.70	3.00	2.00	3.15	
13	1.10	0.60	58.25	10.20	14.85	127.25	64.70	11.85	5.40	2.90	2.00	3.30	
14	1.00	1.50	63.80	9.45	14.85	82.10	54.25	11.40	5.25	2.80	2.00	3.30	
15	0.80	1.70	45.00	10.80	15.60	87.20	47.00	10.95	5.10	2.80	2.00	3.45	
16	0.80	1.40	37.25	10.50	32.75	106.95	41.50	10.50	5.10	2.80	1.90	3.45	
17	0.80	1.40	52.25	9.45	59.00	114.30	44.75	10.05	5.10	2.70	1.90	3.30	
18	0.30	1.40	90.20	10.20	34.50	108.00	43.75	9.75	5.10	2.60	1.90	2.80	
19	0.50	1.30	124.45	10.20	40.00	252.50	42.75	9.45	4.95	2.50	1.60	2.40	
20	0.60	1.60	165.50	10.50	61.50	330.40	46.25	9.45	4.80	2.50	1.60	2.20	
21	0.40	2.70	204.50	17.40	78.80	341.60	39.25	9.15	4.80	2.50	1.60	2.00	
22	0.30	7.20	279.55	87.80	69.50	327.60	34.75	8.85	4.65	2.40	1.50	2.00	
23	0.40	13.65	267.85	96.45	46.75	313.60	29.80	8.55	4.65	2.40	1.30	1.80	
24	0.30	23.20	134.95	66.50	40.75	291.25	34.25	8.40	4.65	2.40	1.30	1.60	
25	0.20	20.40	56.00	60.25	64.70	244.10	45.00	8.10	4.50	2.40	1.20	1.30	
26	0.40	12.75	37.50	105.90	53.00	171.30	32.00	7.95	4.50	2.50	1.10	1.30	
27	0.40	12.45	21.00	219.30	48.75	176.70	28.40	7.65	4.50	2.50	1.20	1.20	
28	0.30	12.75	23.00	219.30	37.25	201.50	23.40	7.50	4.50	2.50	1.20	1.20	
29	0.50	14.55	22.20	143.70	28.00	156.30	20.80	7.20	4.50	2.50		1.20	
30	0.60	23.40	23.80	94.35	43.00	116.05	19.00	7.05	4.35	2.40		1.00	
31		16.00		60.00	45.25		19.20		4.20	2.30		1.00	
TOTAL	27.00	185.05	1904.70	1420.40	1095.10	4542.65	3562.25	339.25	166.05	90.10	51.10	62.15	13454.78 CMSDAY
MEAN	0.90	5.97	63.49	46.11	35.33	151.42	114.91	11.31	5.36	2.91	1.82	2.00	36.86 CMS
MAX	2.40	23.40	279.55	219.30	78.80	341.60	434.00	19.60	6.90	4.20	2.30	3.45	434.00 CMS
MIN	0.20	0.10	8.10	9.45	14.10	23.00	19.00	7.05	4.20	2.30	1.10	1.00	0.10 CMS
RUNOFF	2.333	15.988	164.566	123.500	94.617	392.485	307.778	29.311	14.347	7.785	4.415	5.370	1162.493 MCM

MOMENTARY PEAK 442.00 CMS, AT 209.20 M (MSL), AT 10.00 HOURS, ON OCT 5, 1980

RUNOFF YIELD 17.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 210.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

NAM YANG AT BAN NONG SAENG THUNG, ROI ET (E.33A)

LOCATION — LAT. 16°-20'-01" N., LONG. 104°-01'-18" E., ON LEFT BANK ABOUT 1 KILOMETER SOUTH-EAST OF BAN NONG SAENG THUNG, AND 150 METERS DOWNSTREAM FROM CONFLUENCE WITH NONG SAENG, AMPHOE PHON THONG, ROI ET.

DRAINAGE AREA — 2,599 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +133.97 M (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF E.33A STATION OFFICE.

ELEVATION — +143.700 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1961 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1961-1968

RATED BY FLOAT — -

RATED BY CURRENT METER — 1961-1968

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +142.50 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1.629 DISCHARGE MEASUREMENTS MADE DURING 1961-1968.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

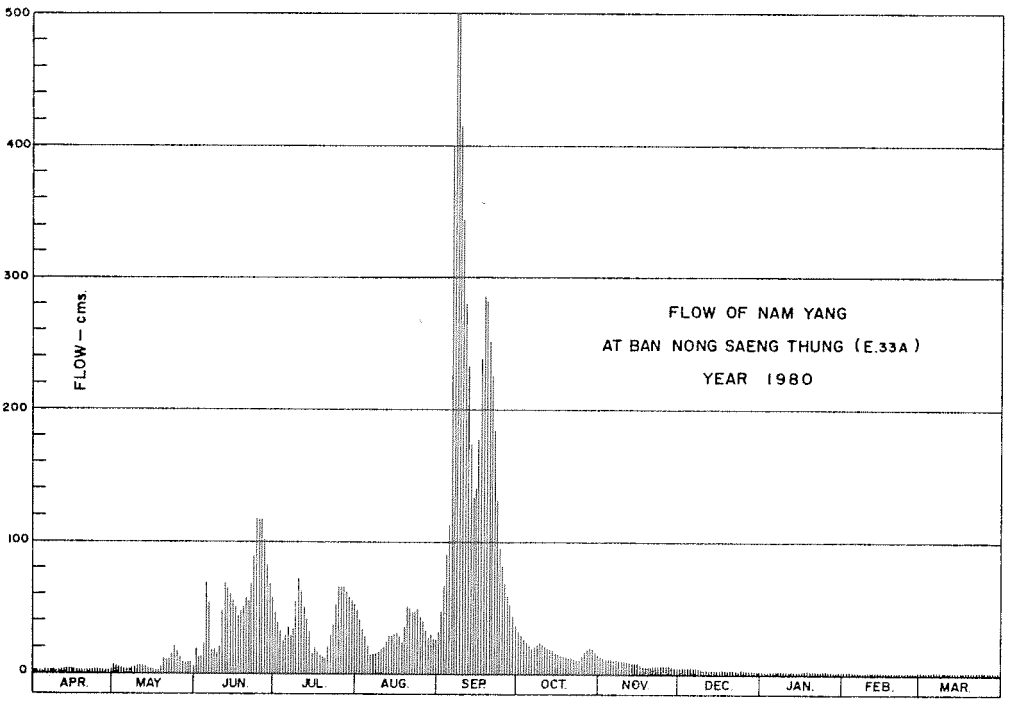
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.81	135.21	135.85	136.95	136.96	136.65	136.60	135.66	135.13	134.90	134.65	134.74	
2	134.82	135.10	135.51	136.64	136.70	137.12	136.46	135.61	135.11	134.88	134.67	134.75	
3	134.80	135.03	135.70	136.39	136.43	137.82	136.31	135.57	135.08	134.91	134.67	134.72	
4	134.80	135.01	136.26	136.20	136.21	138.57	136.17	135.56	135.05	134.86	134.69	134.77	
5	134.85	135.00	137.71	136.49	136.00	139.76	136.09	135.53	135.06	134.92	134.67	134.70	
6	134.80	134.96	136.75	136.60	135.79	141.89	135.99	135.50	135.05	134.91	134.68	134.66	
7	134.80	134.94	135.90	136.38	135.78	145.35	136.08	135.46	135.06	134.91	134.66	134.68	
8	134.86	134.98	135.91	136.59	135.81	145.14	136.17	135.48	135.03	134.90	134.65	134.73	
9	134.82	135.02	135.77	137.46	135.90	144.08	136.17	135.50	135.00	134.90	134.64	134.69	
10	134.82	135.12	136.03	137.77	135.94	143.17	136.13	135.47	135.02	134.87	134.65	134.68	
11	134.85	135.12	137.27	137.41	136.02	142.52	136.03	135.44	135.02	134.85	134.63	134.67	
12	134.89	135.08	137.70	137.05	136.26	141.68	135.95	135.41	135.00	134.88	134.63	134.69	
13	134.88	135.02	137.49	136.78	136.40	140.42	135.89	135.37	134.98	134.88	134.64	134.69	
14	134.86	134.97	137.30	136.48	136.39	139.53	135.84	135.34	135.00	134.89	134.63	134.67	
15	134.85	134.94	137.20	135.81	136.42	139.77	135.78	135.33	135.00	134.88	134.64	134.67	
16	134.84	134.90	137.08	135.93	136.45	140.54	135.75	135.29	134.99	134.88	134.64	134.73	
17	134.83	134.85	136.93	135.77	136.33	141.67	135.67	135.25	135.02	134.83	134.63	134.71	
18	134.82	134.89	136.99	135.69	136.17	142.32	135.63	135.25	134.97	134.85	134.63	134.76	
19	134.81	135.34	137.16	135.61	136.48	142.25	135.59	135.25	134.98	134.84	134.66	134.71	
20	134.80	135.52	137.32	135.85	137.10	141.99	135.61	135.22	134.97	134.85	134.64	134.68	
21	134.80	135.46	137.27	136.22	137.11	141.63	135.60	135.22	134.93	134.85	134.62	134.67	
22	134.89	135.63	137.79	136.55	136.99	140.68	135.57	135.21	134.95	134.84	134.71	134.66	
23	134.87	135.89	138.35	136.98	137.01	139.41	135.53	135.26	134.94	134.82	134.66	134.64	
24	134.82	135.92	139.06	137.40	137.08	138.62	135.61	135.24	134.97	134.82	134.63	134.63	
25	134.86	135.76	139.04	137.60	136.91	138.08	135.80	135.23	134.94	134.83	134.66	134.68	
26	134.83	135.51	139.03	137.59	136.77	137.71	135.90	135.23	134.91	134.81	134.65	134.63	
27	134.82	135.37	138.66	137.59	136.52	137.40	135.91	135.20	134.91	134.81	134.67	134.62	
28	134.40	135.31	138.13	137.53	136.35	137.16	136.00	135.17	134.91	134.81	134.72	134.59	
29	134.51	135.31	137.66	137.37	136.42	136.95	135.89	135.13	134.91	134.79		134.59	
30	134.29	135.39	137.26	137.30	136.24	136.75	135.75	135.13	134.92	134.75		134.65	
31		135.15		137.19	136.30		135.71		134.91	134.67		134.67	
MEAN	134.79	135.22	137.20	136.75	136.43	140.22	135.91	135.35	134.99	134.85	134.65	134.68	
MAX	134.89	135.92	139.06	137.77	137.11	145.35	136.60	135.66	135.13	134.92	134.72	134.77	145.35
MIN	134.29	134.85	135.51	135.61	135.78	136.65	135.59	135.13	134.91	134.67	134.62	134.59	134.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 145.51 M (MSL), AT 9.00 HOURS, ON SEP 7, 1980

ZERO GAGE AT BOTTOM ELEVATION 133.97 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION 143.30 M (MSL)

RIGHT BANK ELEVATION 142.50 M (MSL), DRAINAGE AREA 2599 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.86	6.16	17.30	45.63	45.93	36.52	35.00	13.36	5.16	2.40	0.90	1.44	
2	1.92	4.80	10.96	36.21	38.04	50.79	31.36	12.56	4.92	2.28	1.02	1.50	
3	1.80	3.96	14.00	29.56	30.58	72.72	27.64	11.92	4.56	2.52	1.02	1.32	
4	1.80	3.72	26.44	25.00	25.24	99.72	24.34	11.76	4.20	2.16	1.14	1.62	
5	2.10	3.60	68.76	32.14	20.60	144.40	22.58	11.28	4.32	2.64	1.02	1.20	
6	1.80	3.12	39.55	35.00	15.98	254.30	20.38	10.80	4.20	2.52	1.08	0.96	
7	1.80	2.88	18.40	29.32	15.76	567.25	22.36	10.16	4.32	2.52	0.96	1.08	
8	2.16	3.36	18.62	34.74	16.42	545.20	24.34	10.48	3.96	2.40	0.90	1.38	
9	1.92	3.84	15.54	61.11	18.40	438.28	24.34	10.80	3.60	2.40	0.84	1.14	
10	1.92	5.04	21.26	70.92	19.28	354.70	23.46	10.32	3.84	2.22	0.90	1.08	
11	2.10	5.04	55.34	59.59	21.04	301.60	21.26	9.84	3.84	2.10	0.78	1.02	
12	2.34	4.56	68.40	48.66	26.44	240.04	19.50	9.36	3.60	2.28	0.78	1.14	
13	2.28	3.84	62.02	40.47	29.80	172.16	18.18	8.72	3.36	2.28	0.84	1.14	
14	2.16	3.24	56.25	31.88	29.56	135.20	17.08	8.24	3.60	2.34	0.78	1.02	
15	2.10	2.88	53.22	16.42	30.32	144.80	15.76	8.08	3.60	2.28	0.84	1.02	
16	2.04	2.40	49.57	19.06	31.10	177.92	15.10	7.44	3.48	2.28	0.84	1.38	
17	1.98	2.10	45.02	15.54	28.12	239.46	13.52	6.80	3.84	1.98	0.78	1.26	
18	1.92	2.34	46.84	13.84	24.34	285.60	12.88	6.80	3.24	2.10	0.78	1.56	
19	1.86	8.24	52.00	12.56	31.88	280.20	12.24	6.80	3.36	2.04	0.96	1.26	
20	1.80	11.12	56.86	17.30	50.18	261.30	12.56	6.32	3.24	2.10	0.84	1.08	
21	1.80	10.16	55.34	25.48	50.48	237.14	12.40	6.32	2.76	2.10	0.72	1.02	
22	2.34	12.88	71.64	33.70	46.84	184.64	11.92	6.16	3.00	2.04	1.26	0.96	
23	2.22	18.18	91.80	46.54	47.45	130.40	11.28	6.96	2.88	1.92	0.96	0.84	
24	1.92	18.84	117.36	59.29	49.57	101.52	12.56	6.64	3.24	1.92	0.78	0.78	
25	2.16	15.32	116.64	65.36	44.41	82.08	16.20	6.48	2.88	1.98	0.96	1.08	
26	1.98	10.96	116.28	65.06	40.16	68.76	18.40	6.48	2.52	1.86	0.90	0.78	
27	1.92	8.72	102.96	65.06	32.92	59.29	18.62	6.00	2.52	1.86	1.02	0.72	
28	0.00	7.76	83.88	63.24	28.60	52.00	20.60	5.64	2.52	1.86	1.32	0.56	
29	0.24	7.76	67.18	58.38	30.32	45.63	18.18	5.16	2.52	1.74		0.56	
30	0.00	9.04	55.04	56.25	25.96	39.55	15.76	5.16	2.64	1.50		0.90	
31		5.40		52.91	27.40		14.22		2.52	1.02		1.02	
TOTAL	54.24	211.26	1674.47	1266.22	973.12	5803.16	584.02	252.84	108.24	65.64	25.92	33.82	11052.94 CMSDAY
MEAN	1.81	6.81	55.82	40.85	31.39	193.44	18.84	8.43	3.49	2.12	0.93	1.09	30.28 CMS
MAX	2.34	18.84	117.36	70.92	50.48	567.25	35.00	13.36	5.16	2.64	1.32	1.62	567.25 CMS
MIN	0.00	2.10	10.96	12.56	15.76	36.52	11.28	5.16	2.52	1.02	0.72	0.56	0.00 CMS
RUNOFF	4.686	18.253	144.674	109.401	84.077	501.393	50.459	21.845	9.352	5.671	2.239	2.922	954.974 MCM

MOMENTARY PEAK 584.04 CMS, AT 145.51 M (MSL), AT 9.00 HOURS, ON SEP 7, 1980

RUNOFF YIELD 11.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 224.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

LAM PAO AT BAN NONG SONG HONG, KALASIN (E.34)

LOCATION — LAT. 16°-35'-52" N., LONG. 103°-27'-15" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM LAM PAO DAMSITE, AND ABOUT 25 KILOMETERS UPSTREAM FROM THE CONFLUENCE WITH HUAI YANG, AMPHOE SAHATSAKHAN, KALASIN.

DRAINAGE AREA — 5,542 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +139.00 M. (M.S.L.)

BENCH MARK — B.M.-R.I.D. NO.9

LOCATION — ON RIGHT BANK INFRONT OF E.34 STATION OFFICE.

ELEVATION — +150.216 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1962 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1963-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1963-1973

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMEMENTS MADE IN 1973.

REMARKS — NO GAGE HEIGHT RECORDS DURING SEPT.8-14, 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

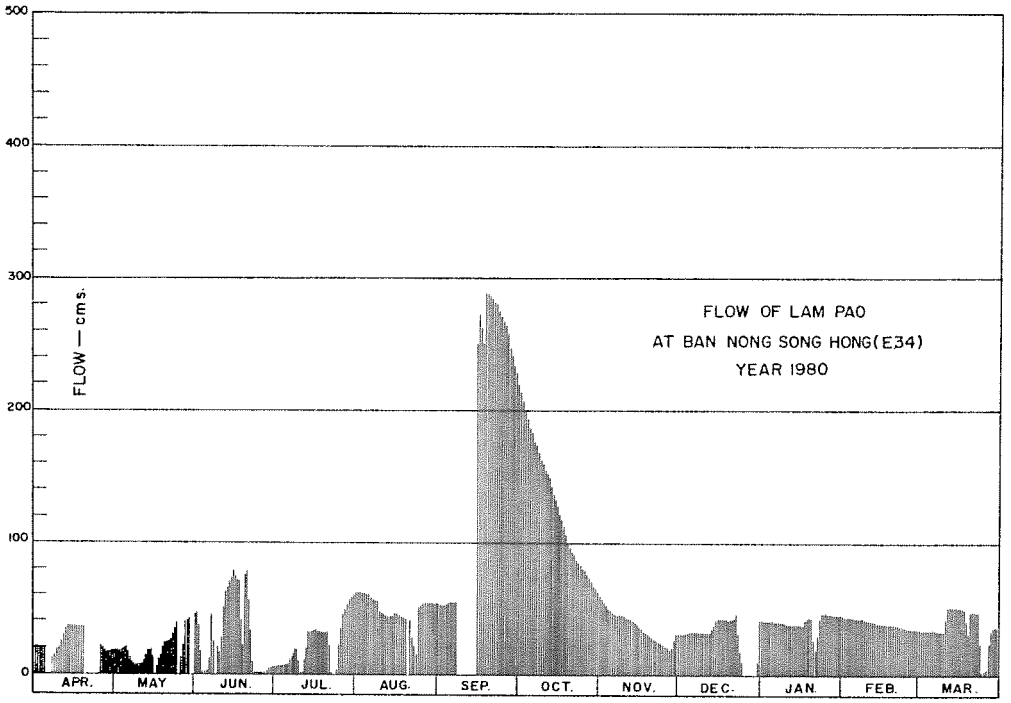
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	139.92	139.90	140.55	139.50	140.86	140.68	143.07	140.77	140.24	140.47	140.52	140.31	
2	139.95	139.90	140.37	139.50	140.86	140.67	143.01	140.68	140.25	140.46	140.52	140.31	
3	139.95	139.92	139.17	139.50	140.86	140.67	142.91	140.64	140.25	140.46	140.51	140.30	
4	139.96	139.95	139.05	139.50	140.84	140.70	142.80	140.59	140.25	140.46	140.51	140.30	
5	139.70	139.95	139.05	139.56	140.80	140.72	142.71	140.55	140.25	140.45	140.50	140.29	
6	139.00	139.75	139.91	139.60	140.78	140.70	142.61	140.54	140.25	140.43	140.50	140.29	
7	139.00	139.54	140.54	139.75	140.75	140.70	142.54	140.53	140.25	140.42	140.49	140.28	
8	139.75	139.53	140.10	139.94	140.73	*******	142.49	140.52	140.23	140.41	140.49	140.28	
9	139.95	139.53	139.00	139.90	140.56	*******	142.43	140.50	140.23	140.40	140.48	140.26	
10	139.95	139.52	139.84	139.09	140.55	*******	142.33	140.47	140.22	140.39	140.48	140.30	
11	140.20	139.52	140.79	139.04	140.52	*******	142.24	140.47	140.21	140.38	140.46	140.65	
12	140.37	139.65	140.88	139.75	140.51	*******	142.15	140.45	140.30	140.38	140.45	140.65	
13	140.36	139.90	141.00	140.25	140.51	*******	142.06	140.39	140.45	140.37	140.43	140.65	
14	140.36	139.90	141.07	140.26	140.51	*******	141.98	140.36	140.47	140.37	140.42	140.65	
15	140.36	139.75	141.14	140.27	140.55	143.45	141.88	140.32	140.47	140.36	140.40	140.65	
16	140.35	139.06	141.08	140.27	140.52	143.70	141.78	140.29	140.47	140.36	140.40	140.65	
17	140.35	139.00	141.00	140.26	140.50	143.45	141.68	140.24	140.47	140.35	140.39	140.63	
18	140.35	139.73	140.01	140.26	140.48	143.66	141.58	140.22	140.47	140.46	140.39	140.62	
19	140.35	140.05	141.11	140.26	140.47	143.88	141.48	140.17	140.46	140.51	140.38	140.24	
20	140.35	140.05	141.19	140.26	139.00	143.87	141.39	140.14	140.46	140.50	140.38	140.60	
21	139.00	140.07	140.50	140.26	140.46	143.84	141.34	140.12	140.47	139.72	140.37	140.60	
22	139.00	140.10	139.26	139.20	140.00	143.81	141.29	140.09	140.56	140.37	140.37	140.59	
23	139.00	140.27	139.04	139.00	139.80	143.78	141.24	140.06	140.25	140.57	140.35	140.57	
24	139.00	140.43	139.02	139.35	140.66	143.71	141.19	140.00	139.08	140.57	140.34	139.31	
25	139.00	139.00	139.11	140.20	140.70	143.67	141.14	139.98	139.00	140.56	140.33	139.15	
26	139.00	139.75	139.16	140.52	140.71	143.60	141.09	139.95	139.00	140.55	140.33	139.40	
27	139.90	140.29	139.24	140.61	140.71	143.52	141.04	139.99	139.00	140.55	140.32	140.29	
28	139.90	140.46	139.38	140.67	140.70	143.43	141.00	140.25	139.00	140.54	140.32	140.35	
29	139.90	140.50	139.41	140.76	140.70	143.33	140.93	140.24	139.00	140.54		140.35	
30	139.90	139.00	139.46	140.81	140.71	143.21	140.88	140.24	139.72	140.53		140.34	
31		139.00		140.85	140.70		140.83		140.47	140.53		140.33	
MEAN	139.80	139.77	140.01	139.97	140.55	*******	141.84	140.33	140.07	140.43	140.42	140.33	
MAX	140.37	140.50	141.19	140.85	140.86	143.88	143.07	140.77	140.56	140.57	140.52	140.65	143.88
MIN	139.00	139.00	139.00	139.00	139.00	*******	140.83	139.95	139.00	139.72	140.32	139.15	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 143.88 M (MSL), AT 12.00 HOURS, ON SEP 19, 1980

ZERO GAGE AT BOTTOM ELEVATION 139.00 M (MSL), RIVER BED 138.10 M (MSL)

LEFT BANK ELEVATION 146.44 M (MSL)

RIGHT BANK ELEVATION 146.91 M (MSL), DRAINAGE AREA 5542 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	19.14	18.40	46.10	6.80	62.28	52.76	217.60	57.51	31.78	42.16	44.60	34.75	
2	20.25	18.40	37.45	6.80	62.28	52.24	212.80	52.76	32.20	41.68	44.60	34.75	
3	20.25	19.14	0.84	6.80	62.28	52.24	204.80	50.68	32.20	41.68	44.10	34.30	
4	20.62	20.25	0.00	6.80	61.22	53.80	196.00	48.10	32.20	41.68	44.10	34.30	
5	12.00	20.25	0.00	8.30	59.10	54.86	188.80	46.10	32.20	41.20	43.60	33.88	
6	0.00	13.55	18.77	9.30	58.04	53.80	180.80	45.60	32.20	40.24	43.60	33.88	
7	0.00	7.80	45.60	13.55	56.45	53.80	175.20	45.10	32.20	39.76	43.12	33.46	
8	13.55	7.55	26.10	19.88	55.39	*******	171.20	44.60	31.36	39.28	43.12	33.46	
9	20.25	7.55	0.00	18.40	46.60	*******	166.40	43.60	31.36	38.80	42.64	32.62	
10	20.25	7.30	16.42	0.00	46.10	*******	158.68	42.16	30.94	38.35	42.64	34.30	
11	30.10	7.30	58.57	0.00	44.60	*******	151.90	42.16	30.52	37.90	41.68	51.20	
12	37.45	10.65	63.34	13.55	44.10	*******	145.15	41.20	34.30	37.90	41.20	51.20	
13	37.00	18.40	70.00	32.20	44.10	*******	138.52	38.35	41.20	37.45	40.24	51.20	
14	37.00	18.40	73.92	32.62	44.10	*******	132.80	37.00	42.16	37.45	39.76	51.20	
15	37.00	13.55	77.92	33.04	46.10	250.50	125.82	35.20	42.16	37.00	38.80	51.20	
16	36.55	0.00	74.48	33.04	44.60	273.00	118.92	33.88	42.16	37.00	38.80	51.20	
17	36.55	0.00	70.00	32.62	43.60	250.50	112.04	31.78	42.16	36.55	38.35	50.16	
18	36.55	12.93	22.50	32.62	42.64	269.40	105.24	30.94	42.16	41.68	38.35	49.64	
19	36.55	24.10	76.18	32.62	42.16	289.20	98.52	28.90	41.68	44.10	37.90	31.78	
20	36.55	24.10	80.82	32.62	0.00	288.30	92.80	27.70	41.68	43.60	37.90	48.60	
21	0.00	24.90	43.60	32.62	41.68	285.60	89.80	26.90	42.16	12.62	37.45	48.60	
22	0.00	26.10	2.16	1.20	22.10	282.90	86.80	25.70	46.60	37.45	37.45	48.10	
23	0.00	33.04	0.00	0.00	15.10	280.20	83.80	24.50	32.20	47.10	36.55	47.10	
24	0.00	40.24	0.00	3.75	51.72	273.90	80.82	22.10	0.00	47.10	36.10	2.99	
25	0.00	0.00	0.12	30.10	53.80	270.30	77.92	21.36	0.00	46.60	35.65	0.60	
26	0.00	13.55	0.72	44.60	54.33	264.00	75.04	20.25	0.00	46.10	35.65	4.70	
27	18.40	33.88	1.84	49.12	54.33	256.80	72.24	21.73	0.00	46.10	35.20	33.88	
28	18.40	41.68	4.32	52.24	53.80	248.70	70.00	32.20	0.00	45.60	35.20	36.55	
29	18.40	43.60	4.91	56.98	53.80	239.70	66.08	31.78	0.00	45.60		36.55	
30	18.40	0.00	5.96	59.63	54.33	228.90	63.34	31.78	12.62	45.10		36.10	
31		0.00		61.75	53.80		60.69		42.16	45.10		35.65	
TOTAL	581.21	526.61	922.64	763.55	1474.53	*******	3920.52	1081.62	894.56	1259.93	1118.35	1157.90	******** CMSDAY
MEAN	19.37	16.99	30.75	24.63	47.57	*******	126.47	36.05	28.86	40.64	39.94	37.35	******* CMS
MAX	37.45	43.60	80.82	61.75	62.28	289.20	217.60	57.51	46.60	47.10	44.60	51.20	289.20 CMS
MIN	0.00	0.00	0.00	0.00	0.00	*******	60.69	20.25	0.00	12.62	35.20	0.60	******* CMS
RUNOFF	50.216	45.499	79.716	65.971	127.399	*******	338.732	93.452	77.290	108.858	96.625	100.042	******** MCM

MOMENTARY PEAK 289.20 CMS, AT 143.88 M (MSL), AT 12.00 HOURS, ON SEP 19, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 52.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

HUAI PRONG KHUN PHET AT BAN THAP NAI, CHAIYAPHUM (E.35A)

LOCATION — LAT. 15°-44'-27" N., LONG. 101°-38'-07" E., ON LEFT BANK ABOUT 6 KILOMETERS UPSTREAM FROM E.35 STATION AT BAN THAP NAI, AMPHOE CHATTURAT, CHAIYAPHUM.

DRAINAGE AREA — 422 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +211.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +216.534 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

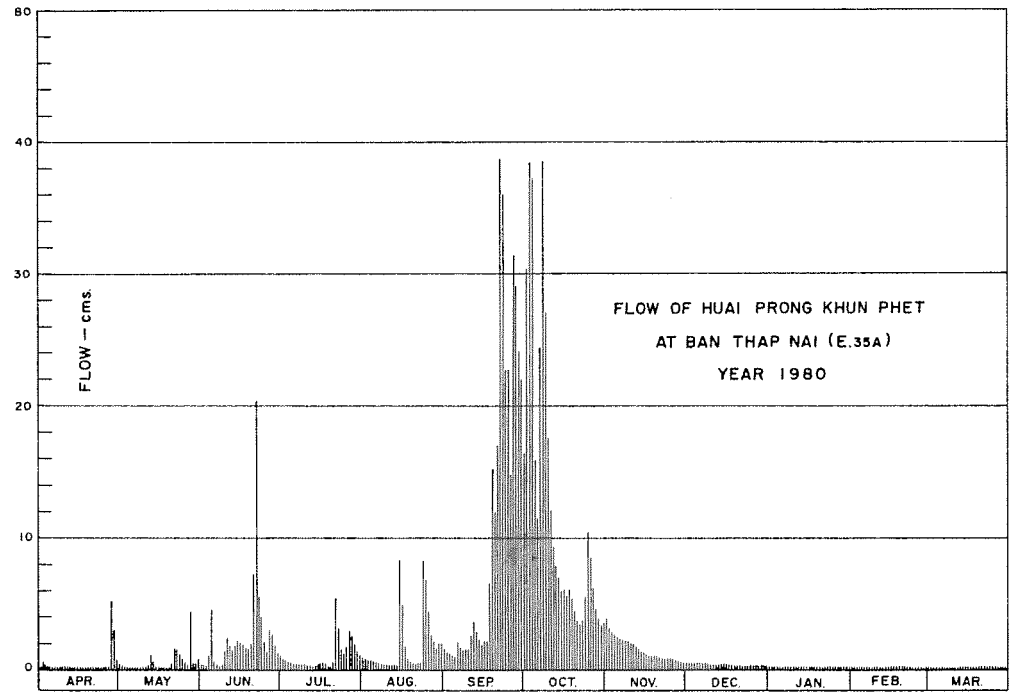
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 94 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	212.08	212.23	212.24	212.48	212.47	212.67	214.43	213.15	212.38	212.19	212.08	212.16	
2	212.37	212.17	212.31	212.45	212.45	212.59	215.60	213.03	212.38	212.18	212.08	212.12	
3	212.15	212.13	212.19	212.40	212.43	212.57	215.89	212.97	212.36	212.16	212.08	212.09	
4	212.12	212.11	212.55	212.36	212.41	212.53	215.82	212.92	212.36	212.16	212.08	212.08	
5	212.10	212.10	213.22	212.34	212.40	212.52	214.44	212.88	212.34	212.16	212.10	212.10	
6	212.08	212.09	212.39	212.31	212.37	212.78	213.97	212.85	212.33	212.16	212.08	212.10	
7	212.07	212.07	212.28	212.30	212.35	212.65	215.28	212.82	212.32	212.14	212.08	212.10	
8	212.06	212.07	212.24	212.27	212.32	212.64	215.90	212.84	212.31	212.14	212.08	212.09	
9	212.04	212.08	212.27	212.26	212.30	212.66	214.56	212.82	212.30	212.14	212.07	212.09	
10	212.10	212.07	212.77	212.25	212.29	212.89	214.40	212.77	212.29	212.14	212.07	212.09	
11	212.13	212.12	212.86	212.25	212.27	212.95	214.12	212.73	212.28	212.13	212.07	212.08	
12	212.09	212.22	212.76	212.24	212.27	213.12	213.84	212.70	212.25	212.13	212.06	212.07	
13	212.09	212.55	212.62	212.24	212.26	212.96	213.64	212.66	212.25	212.12	212.05	212.06	
14	212.07	212.32	212.78	212.24	212.25	212.80	213.56	212.64	212.25	212.11	212.04	212.32	
15	212.05	212.18	212.80	212.35	213.68	212.73	213.43	212.61	212.26	212.11	212.05	212.42	
16	212.03	212.13	212.52	212.32	213.21	212.81	213.45	212.58	212.26	212.11	212.05	212.16	
17	212.00	212.10	212.48	212.28	212.67	212.83	213.39	212.57	212.26	212.11	212.04	212.11	
18	211.99	212.13	212.37	212.25	212.47	213.64	213.45	212.56	212.24	212.11	212.03	212.09	
19	211.99	212.11	212.37	212.23	212.38	214.31	213.34	212.55	212.24	212.10	212.03	212.07	
20	211.98	212.11	212.80	212.22	212.39	214.02	213.23	212.52	212.23	212.10	212.04	212.06	
21	211.97	212.32	213.73	212.52	212.35	214.54	213.13	212.51	212.23	212.10	212.04	212.05	
22	211.94	212.65	214.74	213.36	212.33	215.90	213.09	212.49	212.21	212.10	212.05	212.05	
23	211.94	212.68	213.34	212.82	212.37	215.75	213.12	212.48	212.20	212.10	212.05	212.02	
24	211.93	212.53	212.90	212.64	213.68	214.90	213.42	212.48	212.20	212.10	212.02	212.02	
25	211.92	212.42	212.72	212.55	213.54	214.91	213.85	212.47	212.20	212.10	212.03	212.02	
26	211.93	212.32	212.61	212.85	213.14	214.29	213.75	212.46	212.19	212.10	212.00	212.02	
27	212.22	212.26	213.00	213.00	212.94	215.49	213.47	212.45	212.19	212.10	212.00	212.02	
28	213.33	213.22	212.93	212.89	212.76	215.34	213.25	212.43	212.19	212.09	212.61	212.04	
29	212.81	212.31	212.70	212.68	212.65	214.25	213.16	212.42	212.19	212.09		212.10	
30	212.37	212.28	212.57	212.60	212.75	214.09	213.09	212.40	212.19	212.09		212.07	
31		212.49		212.53	212.75		213.12		212.18	212.09		212.04	
MEAN	212.13	212.28	212.74	212.47	212.61	213.60	213.94	212.66	212.26	212.12	212.07	212.09	
MAX	213.33	213.22	214.74	213.36	213.68	215.90	215.90	213.15	212.38	212.19	212.61	212.42	215.90
MIN	211.92	212.07	212.19	212.22	212.25	212.52	213.09	212.40	212.18	212.09	212.00	212.02	211.92

ANNUAL MAX MOMENTARY GAGE HEIGHT 216.86 M (MSL), AT 13.00 HOURS, ON SEP 22, 1980
ZERO GAGE AT BOTTOM ELEVATION 211.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 219.53 M (MSL)
RIGHT BANK ELEVATION 222.50 M (MSL), DRAINAGE AREA 422 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.35	0.37	0.93	0.90	1.68	16.56	3.95	0.63	0.29	0.16	0.25	
2	0.61	0.26	0.49	0.83	0.83	1.36	33.30	3.18	0.63	0.28	0.16	0.20	
3	0.24	0.22	0.29	0.67	0.77	1.28	38.42	2.88	0.59	0.25	0.16	0.17	
4	0.20	0.19	1.20	0.59	0.70	1.12	37.16	2.68	0.59	0.25	0.16	0.16	
5	0.18	0.18	4.44	0.55	0.67	1.08	16.68	2.52	0.55	0.25	0.18	0.18	
6	0.16	0.17	0.65	0.49	0.61	2.12	11.62	2.40	0.53	0.25	0.16	0.18	
7	0.16	0.16	0.44	0.47	0.57	1.60	28.10	2.28	0.51	0.23	0.16	0.18	
8	0.15	0.16	0.37	0.42	0.51	1.56	38.60	2.36	0.49	0.23	0.16	0.17	
9	0.13	0.16	0.42	0.40	0.47	1.64	18.12	2.28	0.47	0.23	0.16	0.17	
10	0.18	0.16	2.08	0.39	0.45	2.56	16.20	2.08	0.45	0.23	0.16	0.17	
11	0.22	0.20	2.44	0.39	0.42	2.80	12.84	1.92	0.44	0.22	0.16	0.16	
12	0.17	0.33	2.04	0.37	0.42	3.74	10.29	1.80	0.39	0.22	0.15	0.16	
13	0.17	1.20	1.48	0.37	0.40	2.84	7.86	1.64	0.39	0.20	0.14	0.15	
14	0.16	0.51	2.12	0.37	0.39	2.20	7.14	1.56	0.39	0.19	0.13	0.51	
15	0.14	0.28	2.20	0.57	8.22	1.92	5.97	1.44	0.40	0.19	0.14	0.74	
16	0.12	0.22	1.08	0.51	4.37	2.24	6.15	1.32	0.40	0.19	0.14	0.25	
17	0.10	0.18	0.93	0.44	1.68	2.32	5.63	1.28	0.40	0.19	0.13	0.19	
18	0.09	0.22	0.61	0.39	0.90	7.86	6.15	1.24	0.37	0.19	0.12	0.17	
19	0.09	0.19	0.61	0.35	0.63	15.12	5.28	1.20	0.37	0.18	0.12	0.16	
20	0.09	0.19	2.20	0.33	0.65	12.00	4.51	1.08	0.35	0.18	0.13	0.15	
21	0.08	0.51	8.80	1.08	0.57	17.88	3.81	1.04	0.35	0.18	0.13	0.14	
22	0.07	1.60	20.42	5.42	0.53	38.60	3.54	0.97	0.32	0.18	0.14	0.14	
23	0.07	1.72	5.28	2.28	0.61	35.90	3.74	0.93	0.30	0.18	0.14	0.12	
24	0.06	1.12	2.60	1.56	8.22	22.60	5.88	0.93	0.30	0.18	0.12	0.12	
25	0.06	0.74	1.88	1.20	6.96	22.74	10.42	0.90	0.30	0.18	0.12	0.12	
26	0.06	0.51	1.44	2.40	3.88	14.88	9.08	0.87	0.29	0.18	0.10	0.12	
27	0.33	0.40	3.00	3.00	2.76	31.44	6.33	0.83	0.29	0.18	0.10	0.12	
28	5.21	4.44	2.72	2.56	2.04	29.04	4.65	0.77	0.29	0.17	1.44	0.13	
29	2.24	0.49	1.80	1.72	1.60	14.40	4.02	0.74	0.29	0.17		0.18	
30	0.61	0.44	1.28	1.40	2.00	12.53	3.54	0.67	0.29	0.17		0.16	
31		0.97		1.12	2.00		3.74		0.28	0.17		0.13	
TOTAL	12.31	18.47	75.68	33.57	55.73	309.05	385.33	49.74	12.64	6.38	5.27	5.95	970.12 CMSDAY
MEAN	0.41	0.60	2.52	1.08	1.80	10.30	12.43	1.66	0.41	0.21	0.19	0.19	2.66 CMS
MAX	5.21	4.44	20.42	5.42	8.22	38.60	38.60	3.95	0.63	0.29	1.44	0.74	38.60 CMS
MIN	0.06	0.16	0.29	0.33	0.39	1.08	3.54	0.67	0.28	0.17	0.10	0.12	0.06 CMS
RUNOFF	1.064	1.596	6.539	2.900	4.815	26.702	33.292	4.298	1.092	0.551	0.455	0.514	83.818 MCM

MOMENTARY PEAK 58.32 CMS, AT 216.86 M (MSL), AT 13.00 HOURS, ON SEP 22, 1980

RUNOFF YIELD 6.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 138.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

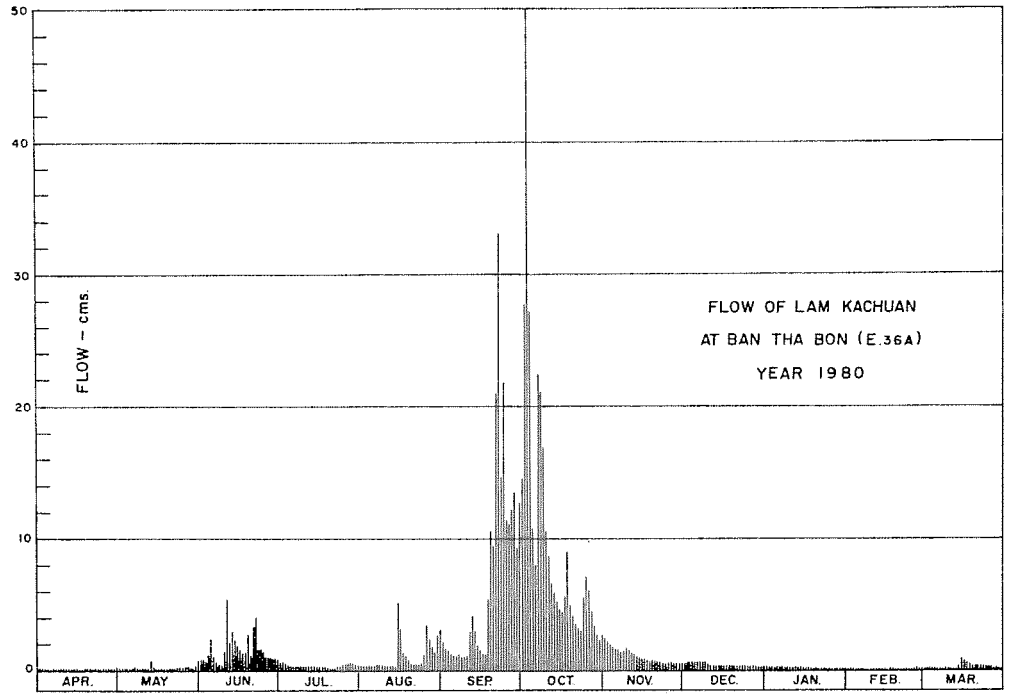
LAM KRACHUAN AT BAN THA BON, CHAIYAPHUM (E.36A)

LOCATION	LAT. 15°-43'-24" N., LONG. 101°-40'-04" E., ON RIGHT BANK ABOUT 2 KILOMETERS UPSTREAM FROM E.36 STATION AT BAN THA BON, AMPHOE CHATTURAT, CHAIYAPHUM.
DRAINAGE AREA	290 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+211.25 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ALONG THE MEASURING LINE.
ELEVATION	+217.647 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 96 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.03	213.03	213.42	213.37	213.26	213.59	214.70	213.65	213.33	213.21	213.14	213.15	
2	213.05	213.02	213.43	213.36	213.26	213.55	215.64	213.62	213.62	213.21	213.15	213.13	
3	213.03	213.01	213.40	213.33	213.26	213.54	216.49	213.59	213.33	213.21	213.15	213.13	
4	213.03	213.00	213.52	213.31	213.27	213.49	215.04	213.58	213.31	213.21	213.15	213.13	
5	213.03	213.00	213.65	213.30	213.29	213.47	214.36	213.57	213.28	213.22	213.14	213.12	
6	213.01	213.00	213.45	213.29	213.30	213.49	214.20	213.55	213.30	213.22	213.14	213.11	
7	213.00	213.00	213.36	213.28	213.29	213.48	215.14	213.54	213.29	213.21	213.13	213.11	
8	212.99	212.99	213.33	213.27	213.26	213.45	215.05	213.53	213.28	213.19	213.14	213.09	
9	212.99	212.97	213.34	213.26	213.25	213.46	214.61	213.56	213.30	213.18	213.14	213.08	
10	212.99	212.96	213.59	213.25	213.24	213.44	214.35	213.54	213.29	213.17	213.14	213.09	
11	212.98	212.96	213.96	213.23	213.23	213.67	214.22	213.51	213.28	213.17	213.13	213.09	
12	212.98	213.12	213.62	213.21	213.26	213.84	214.06	213.48	213.29	213.18	213.11	213.07	
13	212.97	213.41	213.73	213.21	213.24	213.71	213.98	213.46	213.28	213.18	213.10	213.06	
14	212.97	213.20	213.64	213.22	213.25	213.59	213.62	213.44	213.28	213.18	213.09	213.19	
15	212.97	213.15	213.60	213.21	213.94	213.54	213.87	213.43	213.27	213.17	213.09	213.45	
16	212.96	213.13	213.59	213.19	213.70	213.51	213.86	213.42	213.26	213.17	213.08	213.34	
17	212.96	213.12	213.52	213.20	213.51	213.51	214.03	213.41	213.27	213.17	213.08	213.29	
18	212.95	213.10	213.51	213.21	213.49	213.96	214.27	213.41	213.26	213.17	213.07	213.25	
19	212.94	213.14	213.70	213.21	213.40	214.39	213.93	213.41	213.25	213.17	213.06	213.23	
20	213.13	213.23	213.49	213.21	213.36	214.31	213.84	213.40	213.25	213.19	213.07	213.23	
21	212.92	213.21	213.79	213.22	213.32	214.77	213.78	213.40	213.25	213.19	213.10	213.22	
22	212.90	213.22	213.83	213.25	213.30	215.70	213.74	213.38	213.25	213.19	213.11	213.22	
23	212.90	213.22	213.57	213.26	213.30	214.68	213.72	213.37	213.25	213.19	213.14	213.21	
24	212.89	213.23	213.56	213.31	213.36	215.10	214.01	213.36	213.25	213.19	213.13	213.21	
25	212.88	213.24	213.47	213.33	213.45	214.45	214.11	213.36	213.24	213.19	213.10	213.20	
26	213.01	213.26	213.43	213.33	213.78	214.44	213.99	213.35	213.24	213.18	213.09	213.19	
27	213.21	213.27	213.49	213.34	213.65	214.51	213.84	213.34	213.24	213.17	213.10	213.18	
28	213.12	213.24	213.44	213.36	213.57	214.61	213.73	213.33	213.22	213.17	213.20	213.17	
29	213.08	213.23	213.45	213.34	213.52	214.30	213.70	213.33	213.23	213.16		213.14	
30	213.05	213.21	213.41	213.32	213.72	214.55	213.65	213.33	213.23	213.15		213.09	
31		213.42		213.29	213.73		213.69		213.23	213.15		213.07	
MEAN	213.00	213.14	213.54	213.27	213.41	214.00	214.23	213.45	213.28	213.18	213.12	213.17	
MAX	213.21	213.42	213.96	213.37	213.94	215.70	216.49	213.65	213.62	213.22	213.20	213.45	216.49
MIN	212.88	212.96	213.33	213.19	213.23	213.44	213.62	213.33	213.22	213.15	213.06	213.06	212.88

ANNUAL MAX MOMENTARY GAGE HEIGHT 217.51 M (MSL), AT 19.00 HOURS, ON OCT 2, 1980
ZERO GAGE AT BOTTOM ELEVATION 211.25 M (MSL), RIVER BED 211.79 M (MSL)
LEFT BANK ELEVATION 221.14 M (MSL)
RIGHT BANK ELEVATION 221.06 M (MSL), DRAINAGE AREA 290 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.03	0.80	0.61	0.32	1.83	14.90	2.35	0.49	0.22	0.14	0.15	
2	0.05	0.02	0.85	0.58	0.32	1.55	31.90	2.08	2.08	0.22	0.15	0.13	
3	0.03	0.01	0.70	0.49	0.32	1.48	50.27	1.83	0.49	0.22	0.15	0.13	
4	0.03	0.00	1.34	0.43	0.34	1.15	20.58	1.76	0.43	0.22	0.15	0.13	
5	0.03	0.00	2.35	0.40	0.38	1.05	10.08	1.69	0.36	0.24	0.14	0.12	
6	0.01	0.00	0.95	0.38	0.40	1.15	8.10	1.55	0.40	0.24	0.14	0.11	
7	0.00	0.00	0.58	0.36	0.38	1.10	22.32	1.48	0.38	0.22	0.13	0.11	
8	0.00	0.00	0.49	0.34	0.32	0.95	20.75	1.41	0.36	0.19	0.14	0.09	
9	0.00	0.00	0.52	0.32	0.30	1.00	13.55	1.62	0.40	0.18	0.14	0.08	
10	0.00	0.00	1.83	0.30	0.28	0.90	9.95	1.48	0.38	0.17	0.14	0.09	
11	0.00	0.00	5.36	0.26	0.26	2.53	8.34	1.27	0.36	0.17	0.13	0.09	
12	0.00	0.12	2.08	0.22	0.32	4.10	6.46	1.10	0.38	0.18	0.11	0.07	
13	0.00	0.75	3.07	0.22	0.28	2.89	5.58	1.00	0.36	0.18	0.10	0.06	
14	0.00	0.20	2.26	0.24	0.30	1.83	2.08	0.90	0.36	0.18	0.09	0.19	
15	0.00	0.15	1.90	0.22	5.14	1.48	4.40	0.85	0.34	0.17	0.09	0.95	
16	0.00	0.13	1.83	0.19	2.80	1.27	4.30	0.80	0.32	0.17	0.08	0.52	
17	0.00	0.12	1.34	0.20	1.27	1.27	6.13	0.75	0.34	0.17	0.08	0.38	
18	0.00	0.10	1.27	0.22	1.15	5.36	8.94	0.75	0.32	0.17	0.07	0.30	
19	0.00	0.14	2.80	0.22	0.70	10.47	5.03	0.75	0.30	0.17	0.06	0.26	
20	0.13	0.26	1.15	0.22	0.58	9.43	4.10	0.70	0.30	0.19	0.07	0.26	
21	0.00	0.22	3.61	0.24	0.46	16.02	3.52	0.70	0.30	0.19	0.10	0.24	
22	0.00	0.24	4.00	0.30	0.40	33.10	3.16	0.64	0.30	0.19	0.11	0.24	
23	0.00	0.24	1.69	0.32	0.40	14.60	2.98	0.61	0.30	0.19	0.14	0.22	
24	0.00	0.26	1.62	0.43	0.58	21.60	5.91	0.58	0.30	0.19	0.13	0.22	
25	0.00	0.28	1.05	0.49	0.95	11.30	7.02	0.58	0.28	0.19	0.10	0.20	
26	0.01	0.32	0.85	0.49	3.52	11.16	5.69	0.55	0.28	0.18	0.09	0.19	
27	0.22	0.34	1.15	0.52	2.35	12.14	4.10	0.52	0.28	0.17	0.10	0.18	
28	0.12	0.28	0.90	0.58	1.69	13.55	3.07	0.49	0.24	0.17	0.20	0.17	
29	0.08	0.26	0.95	0.52	1.34	9.30	2.80	0.49	0.26	0.16		0.14	
30	0.05	0.22	0.75	0.46	2.98	12.70	2.35	0.49	0.26	0.15		0.09	
31		0.80		0.38	3.07		2.71		0.26	0.15		0.07	
TOTAL	0.79	5.49	50.04	11.15	33.90	208.26	301.07	31.77	12.21	5.80	3.27	6.18	669.93 CMSDAY
MEAN	0.03	0.18	1.67	0.36	1.09	6.94	9.71	1.06	0.39	0.19	0.12	0.20	1.84 CMS
MAX	0.22	0.80	5.36	0.61	5.14	33.10	50.27	2.35	2.08	0.24	0.20	0.95	50.27 CMS
MIN	0.00	0.00	0.49	0.19	0.26	0.90	2.08	0.49	0.24	0.15	0.06	0.06	0.00 CMS
RUNOFF	0.068	0.474	4.323	0.963	2.929	17.994	26.012	2.745	1.055	0.501	0.283	0.534	57.882 MCM

MOMENTARY PEAK 80.66 CMS, AT 217.51 M (MSL), AT 19.00 HOURS, ON OCT 2, 1980

RUNOFF YIELD 6.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 278.14 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

LAM CHOEN AT BAN DON HAN, KHON KAEN (E.38)

LOCATION — LAT. 16°-31'-22" N., LONG. 102°-02'-03" E., ON RIGHT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM THE WIER, BAN DON HAN, AMPHOE CHUM PHAE, KHON KAEN.

DRAINAGE AREA — 1,446 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +213.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 8 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +220.442 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1974 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974-1978

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974-1978

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

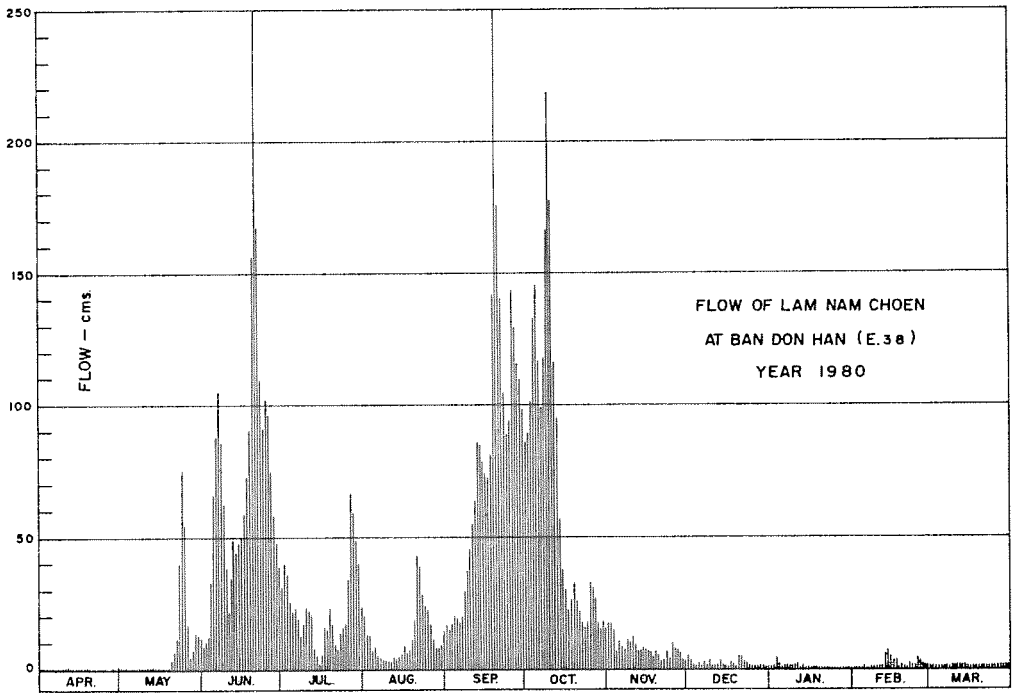
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +220.10 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 635 DISCHARGE MEASUREMENTS MADE DURING 1976-1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.14	213.15	214.43	215.76	215.16	215.00	218.37	215.05	214.11	213.68	213.22	213.57	
2	213.16	213.15	214.65	216.22	214.72	214.88	218.54	214.99	213.97	213.68	213.17	213.34	
3	213.16	213.10	214.71	215.94	214.72	215.05	219.02	214.76	213.66	214.02	213.16	213.38	
4	213.16	213.11	216.71	215.24	214.29	215.16	219.70	214.31	213.63	213.75	213.19	213.52	
5	213.57	213.11	217.70	215.24	214.48	215.16	219.77	214.60	213.85	213.27	213.62	213.52	
6	213.17	213.12	218.55	215.32	214.07	215.06	219.13	214.41	213.54	213.65	213.20	213.51	
7	213.14	213.14	219.01	215.12	214.06	215.19	218.81	214.35	213.97	213.49	213.18	213.67	
8	213.15	213.14	218.13	214.76	214.05	215.85	219.57	214.60	213.77	213.53	213.53	213.68	
9	213.14	213.15	216.92	215.07	214.03	216.22	220.11	214.55	214.01	213.64	213.67	213.86	
10	213.16	213.13	216.10	215.32	213.95	216.74	220.22	214.72	213.68	213.67	213.67	213.63	
11	213.65	213.13	215.28	215.24	213.93	217.15	219.71	214.48	213.55	213.87	213.63	213.43	
12	213.20	213.15	216.65	215.20	214.19	217.52	218.97	214.31	213.64	213.35	213.63	213.53	
13	213.13	213.14	216.36	214.24	214.09	218.29	217.82	214.40	213.95	213.63	213.77	213.52	
14	213.65	213.15	216.56	214.16	214.26	218.25	216.83	214.38	213.66	213.53	214.25	213.58	
15	213.19	213.21	216.68	213.80	214.28	217.84	216.26	214.24	213.77	213.42	214.29	213.59	
16	213.14	213.22	216.90	214.14	214.38	217.78	215.84	214.23	213.73	213.48	214.03	213.63	
17	213.14	213.23	217.32	214.92	214.27	217.81	215.63	214.21	213.91	213.33	213.93	213.60	
18	213.15	213.30	218.37	214.84	214.37	218.37	215.30	214.09	213.89	213.32	214.00	213.56	
19	213.17	213.49	218.80	215.30	214.82	219.92	215.57	214.23	213.55	213.37	213.33	213.57	
20	213.13	214.14	220.00	214.84	215.25	220.40	215.78	214.12	214.19	213.41	213.55	213.55	
21	213.13	214.37	220.32	214.36	216.36	220.01	215.34	213.95	214.02	213.42	213.62	213.57	
22	213.24	215.42	219.60	214.36	216.05	219.60	215.21	213.92	213.82	213.42	213.40	213.53	
23	213.15	216.24	218.94	214.84	215.51	218.99	214.99	214.30	213.90	213.41	213.77	213.51	
24	213.13	217.90	218.56	214.92	215.30	218.46	214.94	214.05	213.68	213.42	213.71	213.52	
25	213.13	216.19	218.93	215.12	215.26	218.70	215.17	214.54	213.72	213.44	214.02	213.51	
26	213.16	215.08	218.72	216.62	214.85	219.74	215.84	214.38	213.68	213.43	213.90	213.52	
27	213.15	214.89	217.74	217.52	214.59	219.47	215.67	214.31	213.73	213.40	213.86	213.55	
28	213.30	215.07	216.84	217.08	214.42	219.24	215.42	214.29	213.71	213.39	213.69	213.57	
29	213.22	215.38	216.50	216.44	214.36	219.15	214.81	214.01	213.71	213.39		213.55	
30	213.18	215.26	215.98	215.97	214.44	218.79	215.04	213.99	213.69	213.37		213.55	
31		215.23		215.24	214.96		214.88		213.69	213.25		213.57	
MEAN	213.21	214.05	217.40	215.26	214.63	217.66	217.04	214.36	213.79	213.50	213.64	213.55	
MAX	213.65	217.90	220.32	217.52	216.36	220.40	220.22	215.05	214.19	214.02	214.29	213.86	220.40
MIN	213.13	213.10	214.43	213.80	213.93	214.88	214.81	213.92	213.54	213.25	213.16	213.34	213.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 220.68 M (MSL), AT 18.00 HOURS, ON SEP 19, 1980
ZERO GAGE AT BOTTOM ELEVATION 213.00 M (MSL), RIVER BED 213.04 M (MSL)
LEFT BANK ELEVATION 220.10 M (MSL)
RIGHT BANK ELEVATION 220.10 M (MSL), DRAINAGE AREA 1446 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	8.95	31.94	20.54	17.50	86.88	18.45	5.10	1.40	0.02	0.91	
2	0.00	0.00	12.25	40.90	13.30	15.70	91.20	17.35	3.70	1.40	0.00	0.22	
3	0.00	0.00	13.15	35.36	13.30	18.45	105.70	13.90	1.30	4.20	0.00	0.34	
4	0.00	0.00	50.70	22.06	7.08	20.54	140.00	7.33	1.15	1.75	0.00	0.76	
5	0.91	0.00	71.40	22.06	9.70	20.54	145.25	11.50	2.50	0.07	1.10	0.76	
6	0.00	0.00	91.50	23.58	4.70	18.64	109.70	8.65	0.82	1.25	0.00	0.73	
7	0.00	0.00	105.35	19.78	4.60	21.11	99.30	7.85	3.70	0.67	0.00	1.35	
8	0.00	0.00	81.12	13.90	4.50	33.65	131.20	11.50	1.85	0.79	0.79	1.40	
9	0.00	0.00	54.90	18.83	4.30	40.90	189.95	10.75	4.10	1.20	1.35	2.60	
10	0.00	0.00	38.50	23.58	3.50	51.30	218.60	13.30	1.40	1.35	1.35	1.15	
11	1.25	0.00	22.82	22.06	3.30	59.65	140.75	9.70	0.85	2.70	1.15	0.49	
12	0.00	0.00	49.50	21.30	5.90	67.44	104.10	7.33	1.20	0.25	1.15	0.79	
13	0.00	0.00	43.70	6.48	4.90	84.96	74.04	8.50	3.50	1.15	1.85	0.76	
14	1.25	0.00	47.70	5.60	6.72	84.00	53.10	8.24	1.30	0.79	6.60	0.94	
15	0.00	0.01	50.10	2.00	6.96	74.48	41.70	6.48	1.85	0.46	7.08	0.97	
16	0.00	0.02	54.50	5.40	8.24	73.16	33.46	6.36	1.65	0.64	4.30	1.15	
17	0.00	0.03	63.22	16.30	6.84	73.82	29.47	6.12	3.10	0.19	3.30	1.00	
18	0.00	0.10	86.88	15.10	8.11	86.88	23.20	4.90	2.90	0.16	4.00	0.88	
19	0.00	0.67	99.00	23.20	14.80	160.00	28.33	6.36	0.85	0.31	0.19	0.91	
20	0.00	5.40	170.00	15.10	22.25	282.50	32.32	5.20	5.90	0.43	0.85	0.85	
21	0.00	8.11	252.50	7.98	43.70	171.75	23.96	3.50	4.20	0.46	1.10	0.91	
22	0.04	25.48	133.00	7.98	37.50	133.00	21.49	3.20	2.20	0.46	0.40	0.79	
23	0.00	41.30	103.20	15.10	27.19	104.70	17.35	7.20	3.00	0.43	1.85	0.73	
24	0.00	75.80	91.80	16.30	23.20	89.04	16.60	4.50	1.40	0.46	1.55	0.76	
25	0.00	40.30	102.90	19.78	22.44	96.00	20.73	10.60	1.60	0.52	4.20	0.73	
26	0.00	19.02	96.60	48.90	15.25	143.00	33.46	8.24	1.40	0.49	3.00	0.76	
27	0.00	15.85	72.28	67.44	11.35	125.35	30.23	7.33	1.65	0.40	2.60	0.85	
28	0.10	18.83	53.30	58.18	8.80	114.30	25.48	7.08	1.55	0.37	1.45	0.91	
29	0.02	24.72	46.50	45.30	7.98	110.50	14.65	4.10	1.55	0.37		0.85	
30	0.00	22.44	36.12	35.93	9.10	98.70	18.26	3.90	1.45	0.31		0.85	
31		21.87		22.06	16.90		15.70		1.45	0.05		0.91	
TOTAL	3.57	319.95	2203.44	729.48	396.95	2491.56	2116.16	249.42	70.17	25.48	51.23	28.01	8685.41 CMSDAY
MEAN	0.12	10.32	73.45	23.53	12.80	83.05	68.26	8.31	2.26	0.82	1.83	0.90	23.80 CMS
MAX	1.25	75.80	252.50	67.44	43.70	282.50	218.60	18.45	5.90	4.20	7.08	2.60	282.50 CMS
MIN	0.00	0.00	8.95	2.00	3.30	15.70	14.65	3.20	0.82	0.05	0.00	0.22	0.00 CMS
RUNOFF	0.308	27.644	190.377	63.027	34.296	215.271	182.836	21.550	6.063	2.201	4.426	2.420	750.419 MCM

MOMENTARY PEAK 392.00 CMS, AT 220.68 M (MSL), AT 18.00 HOURS, ON SEP 19, 1980
RUNOFF YIELD 16.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 271.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

LAM CHI LONG AT BAN KUT YANG, CHAIYAPHUM (E.49)

LOCATION — LAT. 15°-49'-31" N., LONG. 101°-51'-01" E., ON LEFT BANK AT BAN KUT YANG, AMPHOE BAN KHWAO, CHAIYAPHUM.

DRAINAGE AREA — 265 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +196.06 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — IN THE VICINITY OF E.49 STATION OFFICE.

ELEVATION — +205.180 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

ARITHMETIC MEAN OF 24 READINGS.

BASIS OF MEAN DAILY GAGE HEIGHT

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1970, 1980

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1970, 1980

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

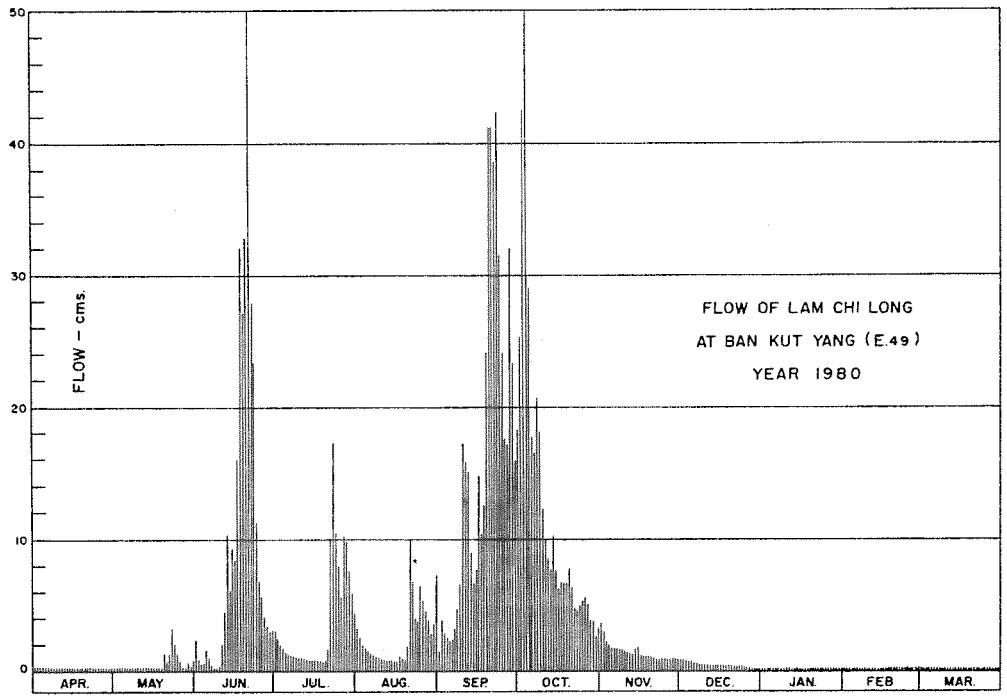
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +203.19 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 329 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.06	198.99	200.58	200.78	200.75	199.43	202.72	200.98	199.91	199.44	199.33	199.18	
2	199.13	198.98	199.90	200.50	200.56	201.03	202.92	200.79	199.86	199.43	199.29	199.21	
3	199.11	198.98	199.73	200.37	200.43	200.76	203.15	200.57	199.83	199.43	199.26	199.17	
4	199.11	198.99	199.77	200.25	200.31	200.63	203.22	200.44	199.81	199.42	199.30	199.18	
5	199.09	199.00	200.31	200.17	200.21	200.58	202.92	200.39	199.80	199.40	199.31	199.18	
6	199.09	199.02	199.80	200.08	200.15	200.61	202.66	200.34	199.78	199.42	199.30	199.17	
7	199.08	199.01	199.56	200.05	200.08	201.04	202.59	200.31	199.79	199.42	199.29	199.18	
8	199.07	199.01	199.46	200.01	200.01	201.32	202.73	200.29	199.74	199.42	199.27	199.23	
9	199.07	199.01	199.42	200.01	199.97	201.86	202.58	200.29	199.72	199.42	199.28	199.22	
10	199.07	199.00	199.43	199.99	199.98	202.62	202.35	200.27	199.68	199.41	199.25	199.21	
11	199.06	198.99	200.66	199.96	199.99	202.56	202.18	200.25	199.65	199.40	199.24	199.24	
12	199.05	198.99	201.30	199.92	199.94	202.53	201.99	200.19	199.63	199.38	199.25	199.21	
13	199.05	198.99	202.23	199.87	199.91	202.15	201.86	200.15	199.63	199.37	199.25	199.27	
14	199.05	198.99	201.60	199.86	199.87	201.67	202.22	200.43	199.65	199.38	199.21	199.22	
15	199.05	198.99	202.10	199.83	199.87	201.88	201.86	200.42	199.66	199.38	199.19	199.17	
16	199.05	198.99	201.98	199.81	199.84	202.52	201.61	200.11	199.64	199.38	199.23	199.15	
17	199.04	198.98	202.71	199.81	200.05	202.25	201.68	200.11	199.61	199.38	199.29	199.15	
18	199.03	198.98	202.98	199.84	199.99	202.44	201.68	200.10	199.61	199.39	199.27	199.16	
19	199.03	198.99	202.89	199.79	199.89	202.87	201.69	200.09	199.60	199.39	199.26	199.23	
20	199.03	200.12	203.00	199.84	200.62	203.11	201.89	200.07	199.62	199.37	199.23	199.23	
21	199.03	199.81	203.23	200.43	202.18	203.11	201.51	200.03	199.62	199.35	199.22	199.22	
22	199.03	200.37	203.08	202.45	201.73	203.08	201.22	200.00	199.57	199.31	199.23	199.21	
23	199.03	200.85	202.78	202.62	201.06	203.12	201.20	199.99	199.55	199.33	199.24	199.21	
24	199.02	200.37	202.27	202.08	201.02	202.98	201.41	199.96	199.56	199.33	199.23	199.18	
25	199.02	200.00	201.67	201.80	201.60	202.83	201.38	200.03	199.54	199.33	199.23	199.15	
26	199.01	199.68	201.28	201.46	201.34	202.63	201.47	200.03	199.50	199.32	199.26	199.15	
27	199.01	199.52	201.02	202.22	201.26	202.62	201.31	199.99	199.48	199.30	199.23	199.14	
28	199.01	199.41	200.85	202.16	200.95	202.98	201.00	199.93	199.47	199.28	199.18	199.15	
29	199.00	199.78	200.75	201.75	200.77	202.79	201.00	199.95	199.46	199.35		199.15	
30	198.99	199.45	200.81	201.38	200.97	202.61	200.68	199.93	199.45	199.30		199.16	
31		199.93		201.00	201.79		200.93		199.44	199.31		199.17	
MEAN	199.05	199.36	201.24	200.65	200.55	202.09	201.92	200.21	199.64	199.37	199.25	199.19	
MAX	199.13	200.85	203.23	202.62	202.18	203.12	203.22	200.98	199.91	199.44	199.33	199.27	203.23
MIN	198.99	198.98	199.42	199.79	199.84	199.43	200.68	199.93	199.44	199.28	199.18	199.14	198.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 203.29 M (MSL), AT 4.00 HOURS, ON OCT 4, 1980
ZERO GAGE AT BOTTOM ELEVATION 196.06 M (MSL), RIVER BED 198.63 M (MSL)
LEFT BANK ELEVATION 203.48 M (MSL)
RIGHT BANK ELEVATION 203.19 M (MSL), DRAINAGE AREA 265 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.05	2.35	3.03	2.92	0.22	20.28	3.73	0.90	0.22	0.15	0.10	
2	0.08	0.04	0.89	2.12	2.29	3.92	28.72	3.06	0.81	0.22	0.12	0.10	
3	0.08	0.04	0.57	1.79	1.93	2.96	45.50	2.32	0.76	0.22	0.11	0.09	
4	0.08	0.05	0.64	1.54	1.66	2.50	54.80	1.96	0.72	0.21	0.12	0.10	
5	0.07	0.05	1.66	1.38	1.46	2.35	28.72	1.83	0.70	0.19	0.13	0.10	
6	0.07	0.06	0.70	1.22	1.35	2.44	18.44	1.72	0.66	0.21	0.12	0.09	
7	0.07	0.05	0.34	1.16	1.22	3.96	16.47	1.66	0.68	0.21	0.12	0.10	
8	0.07	0.05	0.24	1.09	1.09	5.08	20.62	1.62	0.59	0.21	0.12	0.11	
9	0.07	0.05	0.21	1.09	1.01	7.66	16.24	1.62	0.55	0.21	0.12	0.10	
10	0.07	0.05	0.22	1.05	1.03	17.28	11.70	1.58	0.49	0.20	0.11	0.10	
11	0.07	0.05	2.61	1.00	1.05	15.78	9.94	1.54	0.45	0.19	0.11	0.11	
12	0.06	0.05	5.00	0.92	0.96	15.09	8.53	1.42	0.43	0.18	0.11	0.10	
13	0.06	0.05	10.37	0.83	0.90	9.70	7.66	1.35	0.43	0.17	0.11	0.12	
14	0.06	0.05	6.30	0.81	0.83	6.65	10.28	1.93	0.45	0.18	0.10	0.10	
15	0.06	0.05	9.30	0.76	0.83	7.78	7.66	1.90	0.46	0.18	0.10	0.09	
16	0.06	0.05	8.46	0.72	0.77	14.86	6.35	1.27	0.44	0.18	0.11	0.09	
17	0.06	0.04	19.94	0.72	1.16	10.55	6.70	1.27	0.40	0.18	0.12	0.09	
18	0.06	0.04	32.08	0.77	1.05	13.20	6.70	1.25	0.40	0.19	0.12	0.09	
19	0.06	0.05	27.14	0.68	0.87	26.22	6.75	1.24	0.39	0.19	0.11	0.11	
20	0.06	1.29	33.20	0.77	2.47	41.10	7.84	1.20	0.42	0.17	0.11	0.11	
21	0.06	0.72	56.70	1.93	9.94	41.10	5.85	1.13	0.42	0.16	0.10	0.10	
22	0.06	1.79	38.64	13.40	6.95	38.64	4.68	1.07	0.35	0.13	0.11	0.10	
23	0.06	3.27	22.32	17.28	4.04	42.20	4.60	1.05	0.33	0.15	0.11	0.10	
24	0.06	1.79	10.73	9.16	3.88	32.08	5.44	1.00	0.34	0.15	0.11	0.10	
25	0.06	1.07	6.65	7.30	6.30	24.38	5.32	1.13	0.31	0.15	0.11	0.09	
26	0.05	0.49	4.92	5.64	5.16	17.57	5.68	1.13	0.26	0.14	0.11	0.09	
27	0.05	0.29	3.88	10.28	4.84	17.28	5.04	1.05	0.25	0.12	0.11	0.08	
28	0.05	0.20	3.27	9.78	3.62	32.08	3.80	0.94	0.24	0.12	0.10	0.09	
29	0.05	0.66	2.92	7.05	3.00	22.66	3.80	0.98	0.24	0.16		0.09	
30	0.05	0.23	3.14	5.32	3.69	16.99	2.68	0.94	0.23	0.12		0.09	
31		0.94		3.80	7.25		3.55		0.22	0.13		0.09	
TOTAL	1.89	13.66	315.39	114.39	85.52	494.28	390.34	45.89	14.32	5.44	3.18	3.02	1487.32 CMSDAY
MEAN	0.06	0.44	10.51	3.69	2.76	16.48	12.59	1.53	0.46	0.18	0.11	0.10	4.07 CMS
MAX	0.08	3.27	56.70	17.28	9.94	42.20	54.80	3.73	0.90	0.22	0.15	0.12	56.70 CMS
MIN	0.05	0.04	0.21	0.68	0.77	0.22	2.68	0.94	0.22	0.12	0.10	0.08	0.04 CMS
RUNOFF	0.163	1.180	27.250	9.883	7.389	42.706	33.725	3.965	1.237	0.470	0.275	0.261	128.504 MCM

MOMENTARY PEAK 68.10 CMS, AT 203.29 M (MSL), AT 4.00 HOURS, ON OCT 4, 1980
RUNOFF YIELD 15.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 256.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

NAM YANG AT BAN KAENG YAO, KALASIN (E.54)

LOCATION — LAT. 16°-26'-29" N., LONG. 104°-02'-07" E., ON LEFT BANK AT BAN KAENG YAO ABOUT 2 KILOMETERS DOWNSTREAM FROM PROPOSED OF USBR DAMSITE, AMPHOE KUCHINARAI, KALASIN.

DRAINAGE AREA — 847 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 40 METERS FROM THE GAGE LINE.

ELEVATION — +9.425 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969-1977

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969-1977

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +8.17 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 170 DISCHARGE MEASUREMENTS MADE IN 1977.

REMARKS — NO RECORDS DURING SEP.25-NOV.7, 1980. RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

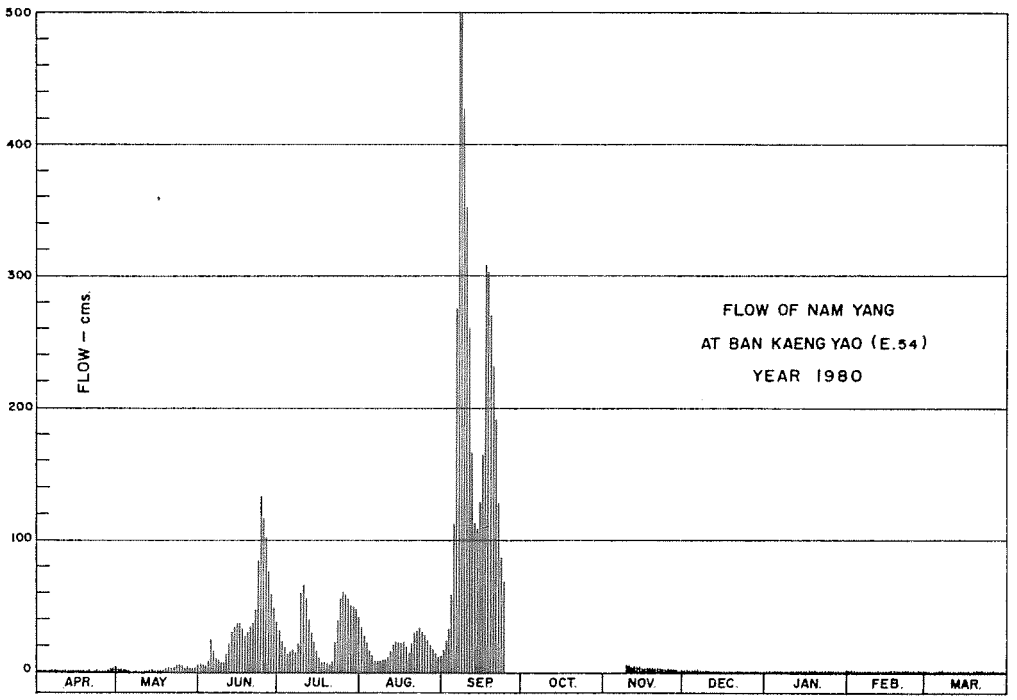
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.02	1.23	1.57	2.85	3.00	2.26	*******	*******	1.22	1.09	1.06	1.07	
2	1.02	1.15	1.46	2.54	2.71	2.63	*******	*******	1.22	1.12	1.05	1.06	
3	1.01	1.14	1.54	2.25	2.43	3.23	*******	*******	1.18	1.10	1.05	1.05	
4	1.00	1.12	1.89	2.07	2.19	3.86	*******	*******	1.21	1.10	1.05	1.05	
5	1.00	1.09	2.57	2.20	1.94	6.14	*******	*******	1.18	1.10	1.05	1.04	
6	1.01	1.13	2.08	2.25	1.73	8.75	*******	*******	1.22	1.12	1.04	1.04	
7	1.01	1.10	1.81	2.14	1.73	10.71	*******	*******	1.24	1.09	1.05	1.04	
8	1.00	1.08	1.69	2.63	1.80	10.47	*******	1.55	1.16	1.09	1.03	1.02	
9	1.01	1.11	1.60	3.94	1.87	9.17	*******	1.56	1.15	1.09	1.04	1.03	
10	1.01	1.13	1.70	4.00	1.87	8.48	*******	1.50	1.17	1.07	1.04	1.03	
11	1.01	1.12	2.29	3.56	2.00	7.67	*******	1.48	1.16	1.08	1.05	1.04	
12	1.02	1.10	2.68	3.15	2.35	6.29	*******	1.45	1.15	1.08	1.05	1.04	
13	1.05	1.08	2.99	2.84	2.52	5.30	*******	1.42	1.14	1.09	1.05	1.03	
14	1.05	1.07	3.02	2.54	2.47	5.23	*******	1.38	1.16	1.09	1.04	1.03	
15	1.04	1.05	3.13	2.14	2.49	5.76	*******	1.37	1.13	1.07	1.04	1.07	
16	1.05	1.04	3.12	1.90	2.50	6.84	*******	1.33	1.15	1.07	1.04	1.06	
17	1.03	1.04	2.89	1.72	2.38	8.48	*******	1.33	1.12	1.07	1.04	1.05	
18	1.04	1.03	2.73	1.66	2.17	8.41	*******	1.31	1.14	1.07	1.03	1.03	
19	1.03	1.38	2.88	1.54	2.10	8.08	*******	1.29	1.14	1.06	1.02	1.02	
20	1.03	1.28	3.09	1.58	2.76	7.70	*******	1.27	1.12	1.09	1.03	1.02	
21	1.04	1.33	3.21	2.10	2.92	6.62	*******	1.28	1.13	1.07	1.04	1.00	
22	1.03	1.41	3.83	2.64	2.88	5.47	*******	1.34	1.13	1.06	1.03	1.01	
23	1.03	1.56	4.75	3.15	2.95	4.43	*******	1.34	1.14	1.06	1.03	1.00	
24	1.02	1.55	5.74	3.70	2.82	4.09	*******	1.28	1.12	1.07	1.04	1.00	
25	1.02	1.47	5.34	3.88	2.71	*******	*******	1.34	1.10	1.06	1.03	1.00	
26	1.02	1.36	4.91	3.83	2.56	*******	*******	1.29	1.10	1.05	1.05	1.00	
27	1.02	1.29	4.03	3.72	2.35	*******	*******	1.28	1.08	1.05	1.06	0.98	
28	1.31	1.27	3.85	3.57	2.15	*******	*******	1.22	1.09	1.05	1.06	0.97	
29	1.23	1.37	3.45	3.48	2.03	*******	*******	1.24	1.09	1.06		0.95	
30	1.24	1.39	3.14	3.43	1.94	*******	*******	1.23	1.08	1.05		1.01	
31		1.62		3.27	2.00		*******		1.09	1.05		1.03	
MEAN	1.05	1.23	2.97	2.78	2.33	*******	*******	*******	1.15	1.08	1.04	1.02	
MAX	1.31	1.62	5.74	4.00	3.00	10.71	*******	1.56	1.24	1.12	1.06	1.07	10.71
MIN	1.00	1.03	1.46	1.54	1.73	*******	*******	*******	1.08	1.05	1.02	0.95	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT M (A.D), AT HOURS, ON , 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.52 M (A.D)

LEFT BANK ELEVATION 8.22 M (A.D)

RIGHT BANK ELEVATION 8.17 M (A.D), DRAINAGE AREA 847 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	2.24	5.84	30.70	34.60	17.40	*******	*******	2.16	1.14	0.96	1.02	
2	0.72	1.60	4.52	23.48	27.24	25.46	*******	*******	2.16	1.36	0.90	0.96	
3	0.66	1.52	5.48	17.20	21.06	40.90	*******	*******	1.84	1.20	0.90	0.90	
4	0.60	1.36	10.44	13.66	16.00	60.24	*******	*******	2.08	1.20	0.90	0.90	
5	0.60	1.14	24.14	16.20	11.32	149.84	*******	*******	1.84	1.20	0.90	0.84	
6	0.66	1.44	13.84	17.20	8.02	335.00	*******	*******	2.16	1.36	0.84	0.84	
7	0.66	1.20	9.16	15.00	8.02	546.50	*******	*******	2.32	1.14	0.90	0.84	
8	0.60	1.08	7.46	25.46	9.00	510.50	*******	5.60	1.68	1.14	0.78	0.72	
9	0.66	1.28	6.20	62.96	10.12	377.00	*******	5.72	1.60	1.14	0.84	0.78	
10	0.66	1.44	7.60	65.00	10.12	308.60	*******	5.00	1.76	1.02	0.84	0.78	
11	0.66	1.36	18.00	50.80	12.40	241.72	*******	4.76	1.68	1.08	0.90	0.84	
12	0.72	1.20	26.56	38.60	19.30	156.74	*******	4.40	1.60	1.08	0.90	0.84	
13	0.90	1.08	34.34	30.44	23.04	113.00	*******	4.04	1.52	1.14	0.90	0.78	
14	0.90	1.02	35.12	23.48	21.94	110.20	*******	3.60	1.68	1.14	0.84	0.78	
15	0.84	0.90	38.04	15.00	22.38	132.44	*******	3.50	1.44	1.02	0.84	1.02	
16	0.90	0.84	37.76	10.60	22.60	186.40	*******	3.10	1.60	1.02	0.84	0.96	
17	0.78	0.84	31.74	7.88	19.96	308.60	*******	3.10	1.36	1.02	0.84	0.90	
18	0.84	0.78	27.72	7.04	15.60	302.30	*******	2.90	1.52	1.02	0.78	0.78	
19	0.78	3.60	31.48	5.48	14.20	273.56	*******	2.72	1.52	0.96	0.72	0.72	
20	0.78	2.64	36.94	5.96	28.44	244.00	*******	2.56	1.36	1.14	0.78	0.72	
21	0.84	3.10	40.30	14.20	32.52	173.68	*******	2.64	1.44	1.02	0.84	0.60	
22	0.78	3.92	59.22	25.68	31.48	119.94	*******	3.20	1.44	0.96	0.78	0.66	
23	0.78	5.72	91.70	38.60	33.30	79.68	*******	3.20	1.52	0.96	0.78	0.60	
24	0.72	5.60	131.56	55.00	29.92	68.06	*******	2.64	1.36	1.02	0.84	0.60	
25	0.72	4.64	114.60	60.92	27.24	*******	*******	3.20	1.20	0.96	0.78	0.60	
26	0.72	3.40	97.78	59.22	23.92	*******	*******	2.72	1.20	0.90	0.90	0.60	
27	0.72	2.72	66.02	55.64	19.30	*******	*******	2.64	1.08	0.90	0.96	0.52	
28	2.90	2.56	59.90	51.10	15.20	*******	*******	2.16	1.14	0.90	0.96	0.48	
29	2.24	3.50	47.50	48.40	12.94	*******	*******	2.32	1.14	0.96		0.40	
30	2.32	3.70	38.32	46.90	11.32	*******	*******	2.24	1.08	0.90		0.66	
31		6.48		42.10	12.40		*******		1.14	0.90		0.78	
TOTAL	27.38	73.90	1159.28	979.90	604.90	*******	*******	*******	48.62	32.90	23.94	23.42	******* CMSDAY
MEAN	0.91	2.38	38.64	31.61	19.51	*******	*******	*******	1.57	1.06	0.85	0.76	******* CMS
MAX	2.90	6.48	131.56	65.00	34.60	546.50	*******	5.72	2.32	1.36	0.96	1.02	546.50 CMS
MIN	0.60	0.78	4.52	5.48	8.02	*******	*******	*******	1.08	0.90	0.72	0.40	******* CMS
RUNOFF	2.366	6.385	100.162	84.663	52.263	*******	*******	*******	4.201	2.843	2.068	2.023	******* MCM

MOMENTARY PEAK CMS, AT M (A.D), AT HOURS, ON , 1980

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

LAM KHAN CHU AT BAN KOK PHANGAT, CHAIYAPHUM (E.60)

LOCATION — LAT. 15°-29'-14" N., LONG. 101°-33'-32" E., ON LEFT BANK ABOUT 500 METERS FROM BAN KOK PHANGAT, AMPHOE BAMNET NARONG, CHAIYAPHUM.

DRAINAGE AREA — 205 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ABOUT 8 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +7.326 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

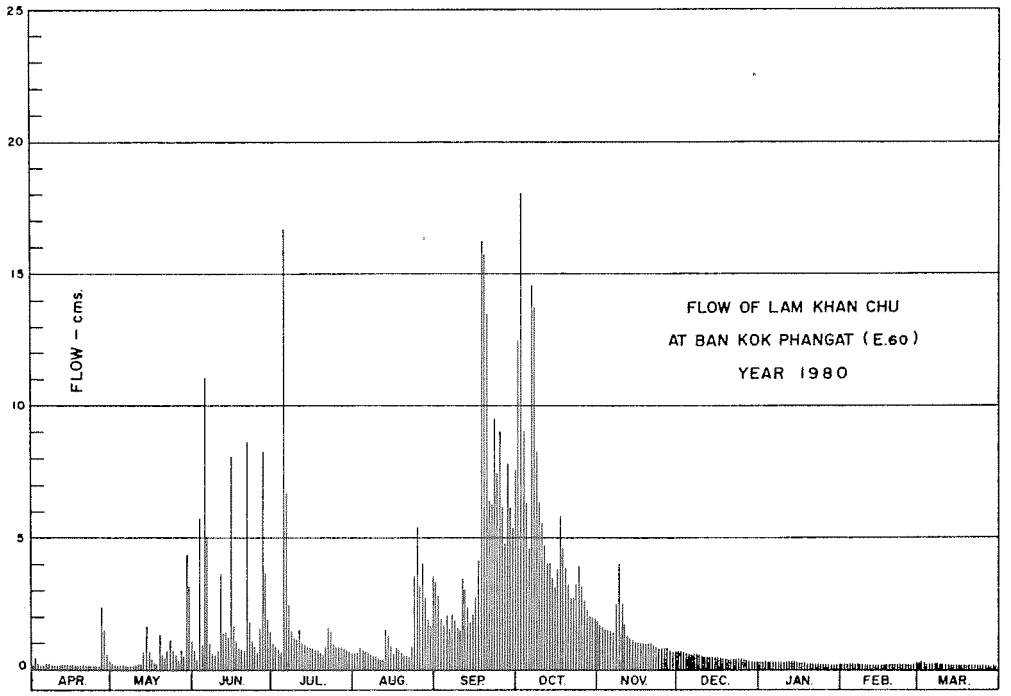
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 119 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.65	0.90	1.09	0.90	1.83	2.78	1.40	0.95	0.76	0.63	0.76	
2	0.83	0.60	0.83	1.02	0.94	1.58	3.76	1.37	0.95	0.76	0.65	0.74	
3	0.64	0.57	2.37	0.98	1.03	1.40	4.18	1.34	0.94	0.75	0.64	0.71	
4	0.60	0.55	1.06	0.94	0.97	1.35	2.99	1.30	0.93	0.75	0.64	0.67	
5	0.63	0.53	3.34	4.05	0.94	1.45	2.41	1.28	0.92	0.74	0.63	0.67	
6	0.71	0.52	1.53	2.90	0.93	1.31	2.14	1.27	0.91	0.74	0.64	0.65	
7	0.67	0.52	1.05	1.62	0.89	1.48	3.82	1.25	0.71	0.74	0.66	0.65	
8	0.62	0.53	0.93	1.34	0.87	1.41	3.73	1.43	0.89	0.73	0.65	0.63	
9	0.59	0.51	0.86	1.20	0.85	1.29	2.77	2.00	0.89	0.73	0.66	0.63	
10	0.55	0.54	0.99	1.17	0.84	1.30	2.48	1.46	0.88	0.73	0.66	0.63	
11	0.55	0.67	1.89	1.29	0.83	1.85	2.25	1.32	0.88	0.72	0.66	0.62	
12	0.51	0.66	1.23	1.11	0.83	1.70	2.09	1.24	0.87	0.72	0.65	0.61	
13	0.57	1.08	1.27	1.06	1.31	1.52	1.98	1.21	0.86	0.73	0.66	0.61	
14	0.53	1.33	1.21	1.04	1.21	1.38	1.94	1.19	0.85	0.73	0.66	0.61	
15	0.51	0.90	2.83	1.04	1.02	1.52	1.83	1.17	0.85	0.73	0.67	0.61	
16	0.50	0.77	1.38	1.02	0.94	1.78	1.78	1.16	0.85	0.71	0.64	0.60	
17	0.49	0.67	1.10	0.98	1.02	2.07	2.00	1.13	0.84	0.69	0.65	0.60	
18	0.52	0.95	0.97	0.95	0.99	4.01	2.39	1.13	0.84	0.70	0.65	0.60	
19	0.45	1.22	0.98	0.93	0.92	3.95	2.05	1.10	0.83	0.70	0.66	0.59	
20	0.44	0.89	0.89	0.94	0.88	3.70	1.90	1.09	0.83	0.69	0.67	0.59	
21	0.43	0.80	2.94	1.09	0.86	2.51	1.78	1.07	0.83	0.71	0.67	0.59	
22	0.44	0.98	1.37	1.30	0.86	2.50	1.67	1.05	0.83	0.69	0.67	0.59	
23	0.44	1.16	1.11	1.28	1.09	3.09	1.67	1.04	0.82	0.67	0.67	0.57	
24	0.42	0.99	1.00	1.08	2.00	2.73	1.91	1.03	0.81	0.66	0.67	0.57	
25	0.40	0.87	0.98	1.03	2.32	3.01	1.97	1.02	0.80	0.63	0.67	0.57	
26	0.39	0.79	1.32	1.01	1.80	2.37	1.72	1.01	0.79	0.63	0.67	0.56	
27	1.55	0.96	2.87	1.00	1.99	2.19	1.61	1.00	0.78	0.69	0.70	0.55	
28	1.13	0.80	1.88	0.99	1.67	2.79	1.53	0.99	0.78	0.64	0.68	0.53	
29	0.87	2.07	1.38	0.95	1.43	2.52	1.47	0.98	0.77	0.63		0.55	
30	0.75	1.70	1.23	0.92	1.35	2.31	1.43	0.97	0.77	0.63		0.55	
31		1.05		0.90	1.87		1.43		0.76	0.64		0.53	
MEAN	0.61	0.87	1.46	1.23	1.17	2.13	2.24	1.20	0.85	0.70	0.66	0.61	
MAX	1.55	2.07	3.34	4.05	2.32	4.01	4.18	2.00	0.95	0.76	0.70	0.76	4.18
MIN	0.39	0.51	0.83	0.90	0.83	1.29	1.43	0.97	0.71	0.63	0.63	0.53	0.39

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.30 M (A.D), AT 23.00 HOURS, ON OCT 2, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 9.48 M (A.D)
RIGHT BANK ELEVATION 8.20 M (A.D), DRAINAGE AREA 205 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.20	0.60	0.98	0.60	3.37	7.75	1.85	0.70	0.34	0.18	0.34	
2	0.46	0.15	0.46	0.84	0.68	2.43	13.98	1.76	0.70	0.34	0.20	0.31	
3	0.19	0.13	5.70	0.76	0.86	1.85	17.99	1.67	0.68	0.33	0.19	0.26	
4	0.15	0.12	0.92	0.68	0.74	1.70	8.89	1.55	0.66	0.33	0.19	0.22	
5	0.18	0.12	10.99	16.65	0.68	2.00	5.90	1.49	0.64	0.31	0.18	0.22	
6	0.26	0.11	2.25	8.40	0.66	1.58	4.61	1.46	0.62	0.31	0.19	0.20	
7	0.22	0.11	0.90	2.57	0.58	2.09	14.48	1.40	0.26	0.31	0.21	0.20	
8	0.17	0.12	0.66	1.67	0.54	1.88	13.74	1.94	0.58	0.29	0.20	0.18	
9	0.14	0.11	0.52	1.25	0.50	1.52	7.70	4.05	0.58	0.29	0.21	0.18	
10	0.12	0.12	0.78	1.17	0.48	1.55	6.25	2.03	0.56	0.29	0.21	0.18	
11	0.12	0.22	3.61	1.52	0.46	3.45	5.10	1.61	0.56	0.28	0.21	0.17	
12	0.11	0.21	1.34	1.02	0.46	2.85	4.41	1.37	0.54	0.28	0.20	0.16	
13	0.13	0.96	1.46	0.92	1.58	2.22	3.97	1.28	0.52	0.29	0.21	0.16	
14	0.12	1.64	1.28	0.88	1.28	1.79	3.81	1.22	0.50	0.29	0.21	0.16	
15	0.11	0.60	8.01	0.88	0.84	2.22	3.37	1.17	0.50	0.29	0.22	0.16	
16	0.10	0.36	1.79	0.84	0.68	3.17	3.17	1.15	0.50	0.26	0.19	0.15	
17	0.09	0.22	1.00	0.76	0.84	4.33	4.05	1.07	0.48	0.24	0.20	0.15	
18	0.11	0.70	0.74	0.70	0.78	16.25	5.80	1.07	0.48	0.25	0.20	0.15	
19	0.08	1.31	0.76	0.66	0.64	15.67	4.25	1.00	0.46	0.25	0.21	0.14	
20	0.07	0.58	0.58	0.68	0.56	13.50	3.65	0.98	0.46	0.24	0.22	0.14	
21	0.06	0.40	8.62	0.98	0.52	6.40	3.17	0.94	0.46	0.26	0.22	0.14	
22	0.07	0.76	1.76	1.55	0.52	6.35	2.74	0.90	0.46	0.24	0.22	0.14	
23	0.07	1.15	1.02	1.49	0.98	9.49	2.74	0.88	0.44	0.22	0.22	0.13	
24	0.06	0.78	0.80	0.96	4.05	7.50	3.69	0.86	0.42	0.21	0.22	0.13	
25	0.05	0.54	0.76	0.86	5.45	9.01	3.93	0.84	0.40	0.18	0.22	0.13	
26	0.05	0.38	1.61	0.82	3.25	5.70	2.93	0.82	0.38	0.18	0.22	0.13	
27	2.32	0.72	8.23	0.80	4.01	4.81	2.53	0.80	0.37	0.24	0.25	0.12	
28	1.07	0.40	3.57	0.78	2.74	7.80	2.25	0.78	0.37	0.19	0.23	0.12	
29	0.54	4.33	1.79	0.70	1.94	6.45	2.06	0.76	0.36	0.18		0.12	
30	0.33	2.85	1.34	0.64	1.70	5.40	1.94	0.74	0.36	0.18		0.12	
31		0.90		0.60	3.53		1.94		0.34	0.19		0.12	
TOTAL	7.63	21.30	73.85	54.01	43.13	154.33	172.79	39.44	15.34	8.08	5.83	5.23	600.96 CMSDAY
MEAN	0.25	0.69	2.46	1.74	1.39	5.14	5.57	1.31	0.49	0.26	0.21	0.17	1.65 CMS
MAX	2.32	4.33	10.99	16.65	5.45	16.25	17.99	4.05	0.70	0.34	0.25	0.34	17.99 CMS
MIN	0.05	0.11	0.46	0.60	0.46	1.52	1.94	0.74	0.26	0.18	0.18	0.12	0.05 CMS
RUNOFF	0.659	1.840	6.381	4.666	3.726	13.334	14.929	3.408	1.325	0.698	0.504	0.452	51.923 MCM

MOMENTARY PEAK 33.70 CMS, AT 5.30 M (A.D), AT 23.00 HOURS, ON OCT 2, 1980

RUNOFF YIELD 8.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 164.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

CHI RIVER BASIN

LAM PHANIANG AT BAN NA KLANG, UDON THANI (E.64)

LOCATION — LAT. 17°-19'-16" N., LONG. 102°-05'-29" E., ON RIGHT BANK AT THE BRIDGE OF UDON THANI-LOEI HIGHWAY, BAN NA KLANG, AMPHOE NA KLANG, UDON THANI.

DRAINAGE AREA — 358 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +254.473 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +261.680 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

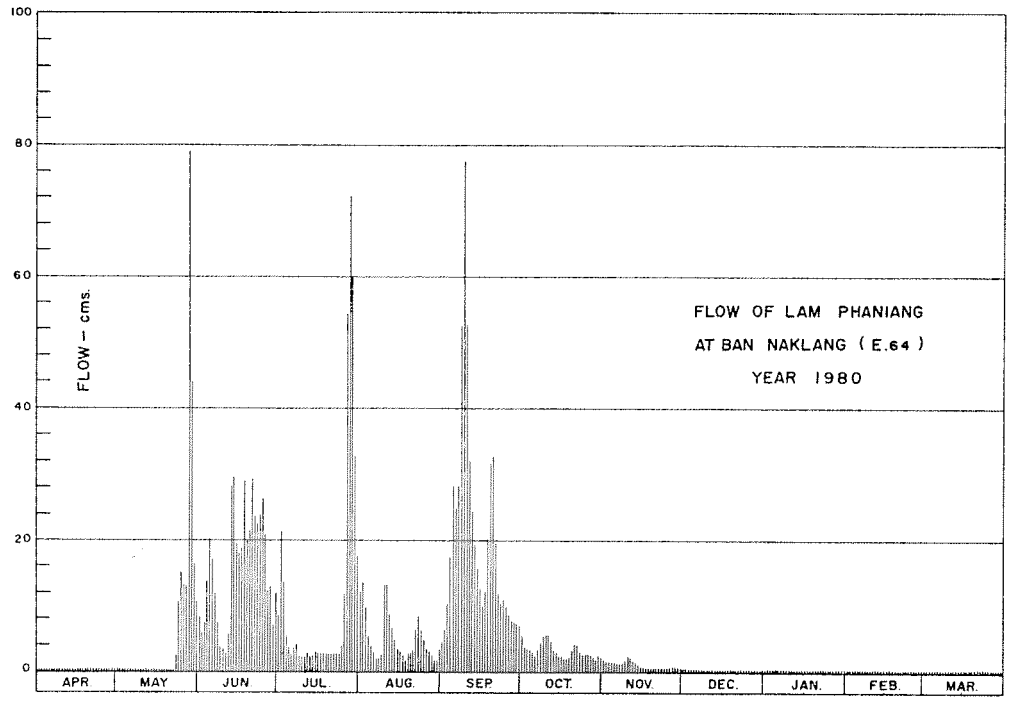
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 142 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	256.46	256.42	257.95	257.95	258.16	257.71	257.76	257.32	256.86	256.68	256.61	256.56	
2	256.50	256.43	257.74	258.65	258.25	258.01	257.62	257.29	256.85	256.67	256.60	256.56	
3	256.49	256.43	257.88	258.22	258.10	258.17	257.55	257.30	256.82	256.67	256.61	256.56	
4	256.50	256.43	258.27	257.76	257.78	258.60	257.52	257.30	256.81	256.66	256.61	256.57	
5	256.50	256.44	258.70	257.55	257.62	258.91	257.50	257.30	256.85	256.66	256.61	256.61	
6	256.50	256.46	258.52	257.46	257.50	258.81	257.43	257.30	256.86	256.68	256.59	256.62	
7	256.50	256.47	258.26	257.56	257.42	258.96	257.55	257.24	256.86	256.69	256.57	256.62	
8	256.49	256.46	257.89	257.62	257.34	259.36	257.64	257.25	256.83	256.63	256.58	256.61	
9	256.46	256.45	257.62	257.39	257.46	259.53	257.89	257.31	256.86	256.66	256.57	256.61	
10	256.45	256.48	257.54	257.40	258.23	259.29	257.89	257.43	256.81	256.65	256.57	256.61	
11	256.47	256.47	257.46	257.38	258.23	258.99	257.74	257.33	256.81	256.63	256.57	256.60	
12	256.47	256.47	257.45	257.47	258.01	258.82	257.63	257.29	256.82	256.61	256.57	256.60	
13	256.46	256.47	258.91	257.42	257.79	258.51	257.51	257.25	256.82	256.61	256.57	256.60	
14	256.46	256.47	258.95	257.43	257.67	258.31	257.47	257.21	256.80	256.62	256.57	256.60	
15	256.46	256.49	258.58	257.49	257.51	258.17	257.44	257.12	256.78	256.61	256.57	256.60	
16	256.45	256.48	258.50	257.47	257.50	258.04	257.43	257.09	256.77	256.63	256.56	256.60	
17	256.47	256.49	258.54	257.46	257.41	258.16	257.42	257.08	256.79	256.64	256.56	256.60	
18	256.48	256.48	258.93	257.47	257.32	258.63	257.36	257.04	256.78	256.65	256.56	256.60	
19	256.46	256.48	258.61	257.45	257.44	258.98	257.41	257.00	256.80	256.66	256.56	256.60	
20	256.47	256.49	258.71	257.45	257.48	259.03	257.58	256.98	256.77	256.66	256.56	256.60	
21	256.47	256.53	258.94	257.46	257.48	258.58	257.60	256.97	256.77	256.65	256.56	256.60	
22	256.47	256.50	258.77	257.45	257.87	258.18	257.60	256.96	256.79	256.66	256.56	256.60	
23	256.46	257.12	258.72	257.45	257.94	258.08	257.47	256.95	256.77	256.66	256.56	256.60	
24	256.45	258.04	258.76	257.46	257.77	258.11	257.46	256.94	256.78	256.64	256.56	256.59	
25	256.44	258.38	258.85	257.64	257.62	258.02	257.45	256.93	256.77	256.64	256.56	256.58	
26	256.44	258.23	258.54	258.27	257.51	257.95	257.46	256.92	256.74	256.62	256.56	256.58	
27	256.44	258.26	258.20	259.36	257.51	257.90	257.45	256.91	256.74	256.61	256.56	256.58	
28	256.43	259.54	258.22	259.50	257.46	257.88	257.38	256.88	256.71	256.61	256.56	256.58	
29	256.43	259.20	257.86	259.26	257.32	257.87	257.30	256.87	256.71	256.61		256.58	
30	256.42	258.63	258.17	258.92	257.30	257.86	257.43	256.87	256.70	256.61		256.58	
31		258.11		258.51	257.53		257.41		256.70	256.61		256.58	
MEAN	256.46	257.03	258.33	257.85	257.66	258.45	257.53	257.12	256.79	256.64	256.57	256.59	
MAX	256.50	259.54	258.95	259.50	258.25	259.53	257.89	257.43	256.86	256.69	256.61	256.62	259.54
MIN	256.42	256.42	257.45	257.38	257.30	257.71	257.30	256.87	256.70	256.61	256.56	256.56	256.42

ANNUAL MAX MOMENTARY GAGE HEIGHT 259.62 M (MSL), AT 9.00 HOURS, ON MAY 28, 1980
ZERO GAGE AT BOTTOM ELEVATION 254.47 M (MSL), RIVER BED 253.89 M (MSL)
LEFT BANK ELEVATION 261.71 M (MSL)
RIGHT BANK ELEVATION 261.60 M (MSL), DRAINAGE AREA 358 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.01	8.55	8.55	11.82	5.42	6.02	1.74	0.36	0.18	0.11	0.08	
2	0.05	0.01	5.78	21.10	13.35	9.45	4.34	1.54	0.35	0.17	0.10	0.08	
3	0.04	0.01	7.54	12.84	10.80	11.99	3.60	1.60	0.32	0.17	0.11	0.08	
4	0.05	0.01	13.69	6.02	6.26	20.00	3.30	1.60	0.31	0.16	0.11	0.08	
5	0.05	0.02	22.20	3.60	4.34	28.16	3.10	1.60	0.35	0.16	0.11	0.11	
6	0.05	0.03	18.40	2.78	3.10	24.92	2.54	1.60	0.36	0.18	0.09	0.12	
7	0.05	0.04	13.52	3.70	2.46	29.96	3.60	1.24	0.36	0.19	0.08	0.12	
8	0.04	0.03	7.67	4.34	1.88	54.52	4.58	1.30	0.33	0.13	0.09	0.11	
9	0.03	0.02	4.34	2.23	2.78	77.04	7.67	1.67	0.36	0.16	0.08	0.11	
10	0.02	0.04	3.50	2.30	13.01	47.72	7.67	2.54	0.31	0.15	0.08	0.11	
11	0.04	0.04	2.78	2.16	13.01	31.04	5.78	1.81	0.31	0.13	0.08	0.10	
12	0.04	0.04	2.70	2.86	9.45	25.24	4.46	1.54	0.32	0.11	0.08	0.10	
13	0.03	0.04	28.16	2.46	6.38	18.20	3.20	1.30	0.32	0.11	0.08	0.10	
14	0.03	0.04	29.60	2.54	4.94	14.38	2.86	1.06	0.30	0.12	0.08	0.10	
15	0.03	0.04	19.60	3.02	3.20	11.99	2.62	0.76	0.28	0.11	0.08	0.10	
16	0.02	0.04	18.00	2.86	3.10	9.90	2.54	0.68	0.27	0.13	0.08	0.10	
17	0.04	0.04	18.80	2.78	2.38	11.82	2.46	0.66	0.29	0.14	0.08	0.10	
18	0.04	0.04	28.88	2.86	1.74	20.66	2.02	0.58	0.28	0.15	0.08	0.10	
19	0.03	0.04	20.22	2.70	2.62	30.68	2.38	0.50	0.30	0.16	0.08	0.10	
20	0.04	0.04	22.44	2.70	2.94	32.72	3.90	0.48	0.27	0.16	0.08	0.10	
21	0.04	0.06	29.24	2.78	2.94	19.60	4.10	0.47	0.27	0.15	0.08	0.10	
22	0.04	0.05	23.88	2.70	7.41	12.16	4.10	0.46	0.29	0.16	0.08	0.10	
23	0.03	0.76	22.68	2.70	8.40	10.50	2.86	0.45	0.27	0.16	0.08	0.10	
24	0.02	9.90	23.64	2.78	6.14	10.97	2.78	0.44	0.28	0.14	0.08	0.09	
25	0.02	15.64	26.20	4.58	4.34	9.60	2.70	0.43	0.27	0.14	0.08	0.09	
26	0.02	13.01	18.80	13.69	3.20	8.55	2.78	0.42	0.24	0.12	0.08	0.09	
27	0.02	13.52	12.50	54.52	3.20	7.80	2.70	0.41	0.24	0.11	0.08	0.09	
28	0.01	78.71	12.84	71.99	2.78	7.54	2.16	0.38	0.21	0.11	0.08	0.09	
29	0.01	41.60	7.28	45.68	1.74	7.41	1.60	0.37	0.21	0.11		0.09	
30	0.01	20.66	11.99	28.52	1.60	7.28	2.54	0.37	0.20	0.11		0.09	
31		10.97		18.20	3.40		2.38		0.20	0.11		0.09	
TOTAL	0.97	205.50	485.42	342.54	164.71	617.22	109.34	30.00	9.03	4.39	2.40	3.02	1974.54 CMSDAY
MEAN	0.03	6.63	16.18	11.05	5.31	20.57	3.53	1.00	0.29	0.14	0.09	0.10	5.41 CMS
MAX	0.05	78.71	29.60	71.99	13.35	77.04	7.67	2.54	0.36	0.19	0.11	0.12	78.71 CMS
MIN	0.01	0.01	2.70	2.16	1.60	5.42	1.60	0.37	0.20	0.11	0.08	0.08	0.01 CMS
RUNOFF	0.084	17.755	41.940	29.595	14.231	53.328	9.447	2.592	0.780	0.379	0.207	0.261	170.600 MCM

MOMENTARY PEAK 93.43 CMS, AT 259.62 M (MSL), AT 9.00 HOURS, ON MAY 28, 1980
RUNOFF YIELD 15.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 260.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

MUN RIVER AT BAN TA KUT KHON, NAKHON RATCHASIMA (M.2)

LOCATION — LAT. 15°-00'-03" N., LONG. 105°-15'-57" E., ON RIGHT BANK ABOUT 100 METERS WEST OF BAN THA CHANG SCHOOL, AND ABOUT 30 METERS SOUTH OF RAILWAY PUMPING STATION, AMPHOE CHAKKARAT, NAKHON RATCHASIMA.

DRAINAGE AREA — 4,800 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +157.85 M. (M.S.L.)

BENCH MARK — B.M.-H.D./R.I.D.

LOCATION — AT THE FOOT OF THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +165.802 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1950 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1960, 1969-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960, 1969-1971

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

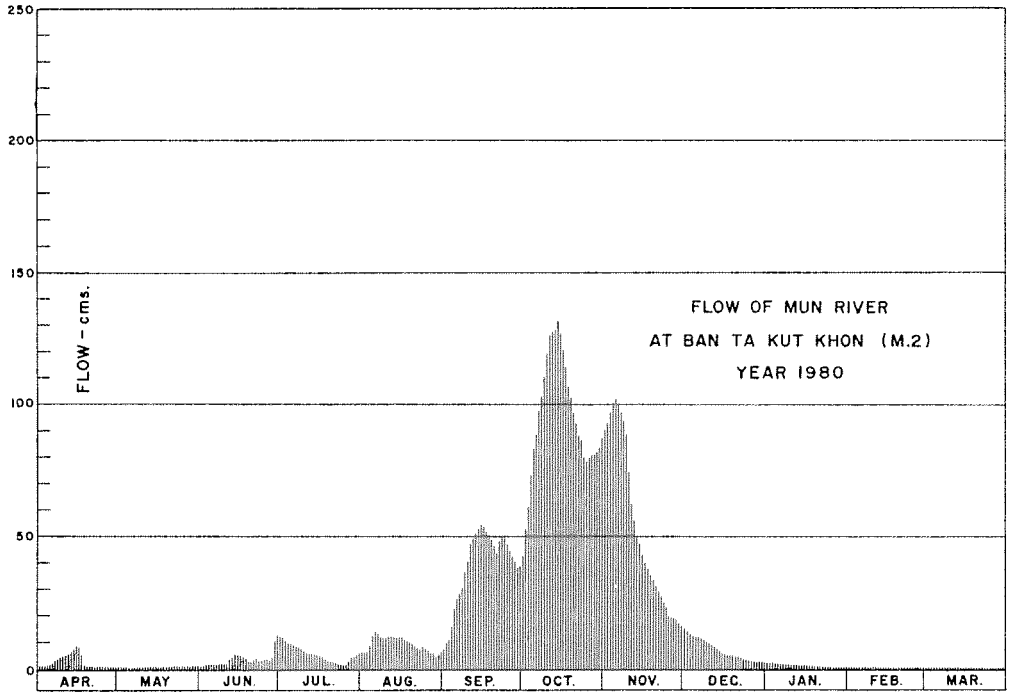
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +164.55 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 230 DISCHARGE MEASUREMENTS MADE IN 1969.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	159.17	159.12	159.50	160.71	160.24	160.38	162.52	164.56	160.89	159.84	159.39	159.28	
2	159.19	159.10	159.52	160.71	160.23	160.57	162.92	164.67	160.84	159.84	159.37	159.29	
3	159.21	159.09	159.60	160.56	160.28	160.66	163.66	164.75	160.80	159.82	159.36	159.28	
4	159.27	159.08	159.71	160.48	160.52	160.96	164.10	164.82	160.75	159.79	159.36	159.28	
5	159.57	159.08	160.09	160.47	160.75	161.36	164.32	164.84	160.73	159.80	159.36	159.27	
6	159.72	159.07	159.64	160.43	160.83	161.61	164.53	164.80	160.69	159.78	159.36	159.24	
7	159.84	158.99	159.73	160.44	160.78	161.72	164.73	164.70	160.66	159.75	159.36	159.21	
8	159.93	158.98	159.73	160.35	160.73	161.91	164.89	164.58	160.62	159.73	159.36	159.21	
9	159.97	158.99	159.70	160.36	160.73	162.18	165.05	164.35	160.56	159.72	159.36	159.21	
10	160.03	159.00	159.64	160.25	160.68	162.48	165.18	163.93	160.53	159.71	159.34	159.21	
11	160.10	159.02	159.84	160.21	160.71	162.74	165.25	163.56	160.46	159.73	159.30	159.21	
12	160.15	159.04	160.03	160.17	160.74	162.88	165.27	163.23	160.41	159.68	159.29	159.24	
13	160.24	159.07	160.05	160.19	160.71	162.97	165.28	162.96	160.36	159.66	159.27	159.31	
14	160.35	159.11	160.17	160.19	160.68	163.04	165.32	162.77	160.30	159.68	159.27	159.31	
15	160.42	159.13	160.13	160.16	160.69	163.12	165.27	162.59	160.23	159.65	159.27	159.31	
16	160.45	159.19	160.07	160.12	160.69	163.08	165.17	162.43	160.21	159.65	159.25	159.29	
17	160.20	159.22	160.07	160.05	160.65	163.01	165.07	162.27	160.19	159.65	159.25	159.31	
18	159.35	159.24	159.96	159.97	160.61	162.96	164.96	162.14	160.15	159.62	159.27	159.33	
19	159.25	159.24	159.92	159.91	160.57	162.82	164.84	162.00	160.12	159.58	159.27	159.28	
20	159.23	159.25	159.88	159.87	160.53	162.74	164.74	161.86	160.10	159.56	159.28	159.31	
21	159.19	159.30	159.97	159.84	160.46	162.55	164.62	161.75	160.06	159.54	159.27	159.35	
22	159.15	159.34	159.98	159.79	160.36	162.77	164.51	161.64	160.02	159.54	159.27	159.32	
23	159.15	159.36	159.88	159.68	160.34	162.84	164.42	161.51	160.00	159.52	159.27	159.30	
24	159.14	159.36	159.92	159.64	160.39	162.89	164.23	161.36	159.97	159.47	159.27	159.29	
25	159.15	159.35	160.00	159.66	160.35	162.81	164.13	161.24	159.91	159.48	159.25	159.29	
26	159.14	159.35	159.96	159.68	160.26	162.59	164.22	161.18	159.90	159.46	159.23	159.32	
27	159.15	159.39	159.91	159.79	160.25	162.47	164.25	161.14	159.90	159.44	159.24	159.34	
28	159.15	159.45	160.06	160.02	160.19	162.40	164.25	161.09	159.88	159.43	159.26	159.28	
29	159.14	159.45	160.63	160.09	160.08	162.25	164.27	161.06	159.87	159.43		159.26	
30	159.11	159.47	160.74	160.18	160.19	162.30	164.36	160.97	159.85	159.41		159.25	
31		159.50		160.22	160.27		164.46		159.85	159.41		159.25	
MEAN	159.57	159.20	159.93	160.13	160.50	162.30	164.54	162.82	160.28	159.62	159.30	159.28	
MAX	160.45	159.50	160.74	160.71	160.83	163.12	165.32	164.84	160.89	159.84	159.39	159.35	165.32
MIN	159.11	158.98	159.50	159.64	160.08	160.38	162.52	160.97	159.85	159.41	159.23	159.21	158.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 165.32 M (MSL), AT 12.00 HOURS, ON OCT 14, 1980
ZERO GAGE AT BOTTOM ELEVATION 157.85 M (MSL), RIVER BED 157.80 M (MSL)
LEFT BANK ELEVATION 164.55 M (MSL)
RIGHT BANK ELEVATION 165.69 M (MSL), DRAINAGE AREA 4800 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.22	1.00	12.34	6.28	7.96	43.28	91.40	15.04	2.64	0.68	0.46	
2	0.29	0.20	1.06	12.34	6.16	10.38	50.88	95.80	14.24	2.64	0.64	0.48	
3	0.32	0.19	1.30	10.24	6.76	11.64	66.68	99.00	13.60	2.52	0.62	0.46	
4	0.44	0.18	1.86	9.16	9.68	16.16	77.40	101.80	12.90	2.34	0.62	0.46	
5	1.21	0.18	4.71	9.04	12.90	22.72	83.60	102.60	12.62	2.40	0.62	0.44	
6	1.92	0.17	1.50	8.56	14.08	26.97	90.20	101.00	12.06	2.28	0.62	0.38	
7	2.64	0.09	1.98	8.68	13.32	28.84	98.20	97.00	11.64	2.10	0.62	0.32	
8	3.27	0.08	1.98	7.60	12.62	32.07	104.60	92.20	11.08	1.98	0.62	0.32	
9	3.63	0.09	1.80	7.72	12.62	36.84	113.00	84.50	10.24	1.92	0.62	0.32	
10	4.17	0.10	1.50	6.40	11.92	42.52	121.60	73.05	9.82	1.86	0.58	0.32	
11	4.80	0.12	2.64	5.92	12.34	47.46	126.50	64.38	8.92	1.98	0.50	0.32	
12	5.30	0.14	4.17	5.50	12.76	50.12	127.90	57.03	8.32	1.70	0.48	0.38	
13	6.28	0.17	4.35	5.70	12.34	51.83	128.60	51.64	7.72	1.60	0.44	0.52	
14	7.60	0.21	5.50	5.70	11.92	53.20	131.60	48.03	7.00	1.70	0.44	0.52	
15	8.44	0.23	5.10	5.40	12.06	54.80	127.90	44.61	6.16	1.55	0.44	0.52	
16	8.80	0.29	4.53	5.00	12.06	54.00	120.90	41.57	5.92	1.55	0.40	0.48	
17	5.80	0.34	4.53	4.35	11.50	52.60	114.20	38.53	5.70	1.55	0.40	0.52	
18	0.60	0.38	3.54	3.63	10.94	51.64	108.00	36.12	5.30	1.40	0.44	0.56	
19	0.40	0.38	3.18	3.09	10.38	48.98	102.60	33.60	5.00	1.24	0.44	0.46	
20	0.36	0.40	2.88	2.82	9.82	47.46	98.60	31.22	4.80	1.18	0.46	0.52	
21	0.29	0.50	3.63	2.64	8.92	43.85	93.80	29.35	4.44	1.12	0.44	0.60	
22	0.25	0.58	3.72	2.34	7.72	48.03	89.40	27.48	4.08	1.12	0.44	0.54	
23	0.25	0.62	2.88	1.70	7.48	49.36	86.60	25.27	3.90	1.06	0.44	0.50	
24	0.24	0.62	3.18	1.50	8.08	50.31	80.97	22.72	3.63	0.91	0.44	0.48	
25	0.25	0.60	3.90	1.60	7.60	48.79	78.21	20.68	3.09	0.94	0.40	0.48	
26	0.24	0.60	3.54	1.70	6.52	44.61	80.68	19.68	3.00	0.88	0.36	0.54	
27	0.25	0.68	3.09	2.34	6.40	42.33	81.55	19.04	3.00	0.82	0.38	0.58	
28	0.25	0.85	4.44	4.08	5.70	41.00	81.55	18.24	2.88	0.79	0.42	0.46	
29	0.24	0.85	11.22	4.71	4.62	38.15	82.13	17.76	2.82	0.79		0.42	
30	0.21	0.91	12.76	5.60	5.70	39.10	84.80	16.32	2.70	0.73		0.40	
31		1.00		6.04	6.64		87.80		2.70	0.73		0.40	
TOTAL	69.01	11.97	111.47	173.44	297.84	1193.72	2963.73	1601.62	224.32	48.02	14.00	14.16	6723.29 CMSDAY
MEAN	2.30	0.39	3.72	5.59	9.61	39.79	95.60	53.39	7.24	1.55	0.50	0.46	18.42 CMS
MAX	8.80	1.00	12.76	12.34	14.08	54.80	131.60	102.60	15.04	2.64	0.68	0.60	131.60 CMS
MIN	0.21	0.08	1.00	1.50	4.62	7.96	43.28	16.32	2.70	0.73	0.36	0.32	0.08 CMS
RUNOFF	5.962	1.034	9.631	14.985	25.733	103.137	256.066	138.380	19.381	4.149	1.210	1.223	580.892 MCM

MOMENTARY PEAK 131.60 CMS, AT 165.32 M (MSL), AT 12.00 HOURS, ON OCT 14, 1980

RUNOFF YIELD 3.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 27.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

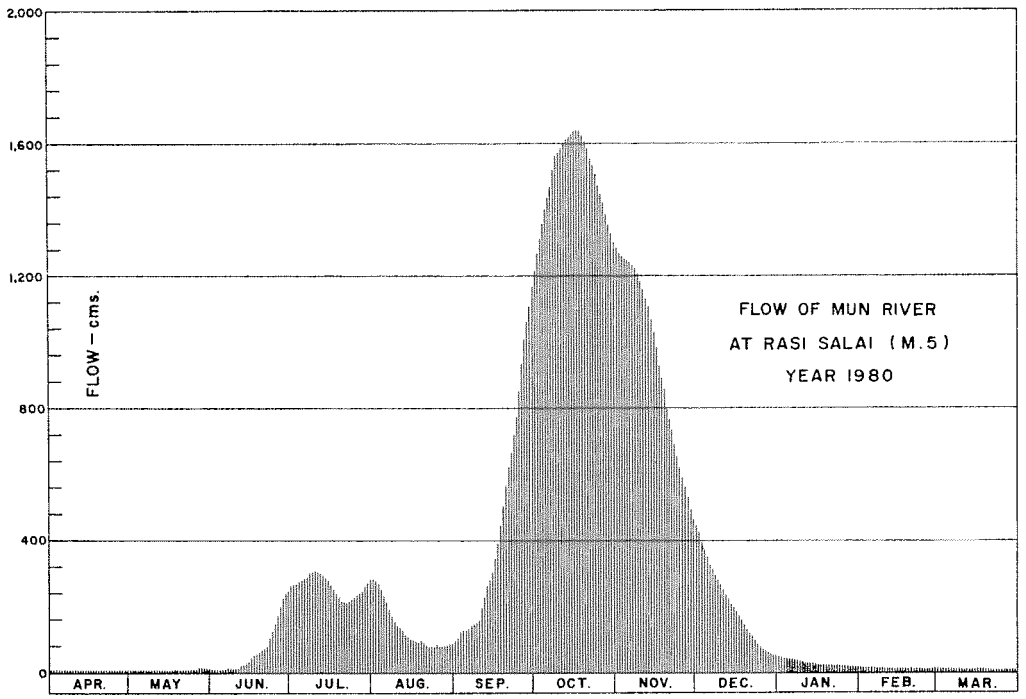
MUN RIVER AT RASI SALAI, SI SA KET (M.5)

LOCATION	LAT. 15°-20'-16" N., LONG. 103°-09'-29" E., ON LEFT BANK INFRONT OF AMPHOE RASI SALAI OFFICE, SI SA KET.
DRAINAGE AREA	44,275 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+110.00 M. (M.S.L.)
BENCH MARK	B.M. OF ARMY SURVEY DEPARTMENT NO.801
LOCATION	EAST OF STAFF GAGE BEHIND AMPHOE RASI SALAI OFFICE.
ELEVATION	+123.156 M. (M.S.L.)
GAGE READING FREQUENCY	3-5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3-5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1955 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	110.19	110.16	110.37	113.23	113.48	111.67	118.71	118.93	114.81	111.08	110.59	110.46	
2	110.19	110.18	110.35	113.29	113.44	111.81	118.87	118.88	114.60	111.04	110.58	110.45	
3	110.18	110.16	110.34	113.35	113.33	111.98	119.01	118.85	114.40	111.01	110.57	110.44	
4	110.17	110.15	110.34	113.40	113.20	112.02	119.14	118.83	114.22	111.00	110.55	110.44	
5	110.18	110.15	110.37	113.45	113.03	112.03	119.27	118.81	114.05	110.99	110.56	110.44	
6	110.18	110.15	110.42	113.50	112.86	112.09	119.38	118.80	113.89	110.98	110.55	110.43	
7	110.16	110.14	110.47	113.56	112.66	112.19	119.49	118.77	113.75	110.94	110.53	110.42	
8	110.16	110.13	110.44	113.59	112.48	112.22	119.59	118.74	113.60	110.90	110.52	110.41	
9	110.15	110.12	110.44	113.64	112.35	112.26	119.69	118.68	113.48	110.87	110.51	110.41	
10	110.17	110.12	110.45	113.68	112.23	112.35	119.77	118.61	113.34	110.84	110.51	110.42	
11	110.18	110.11	110.47	113.67	112.12	112.71	119.82	118.53	113.20	110.81	110.50	110.40	
12	110.16	110.16	110.68	113.63	112.01	112.99	119.86	118.44	113.07	110.79	110.50	110.40	
13	110.16	110.14	110.65	113.58	111.89	113.26	119.88	118.35	112.94	110.77	110.50	110.41	
14	110.16	110.19	110.74	113.52	111.79	113.45	119.91	118.20	112.80	110.76	110.50	110.40	
15	110.15	110.18	110.87	113.44	111.73	113.72	119.93	118.06	112.71	110.74	110.49	110.40	
16	110.14	110.19	111.00	113.31	111.68	114.01	119.96	117.90	112.59	110.72	110.49	110.40	
17	110.13	110.23	111.10	113.20	111.64	114.36	119.96	117.70	112.45	110.71	110.49	110.40	
18	110.13	110.32	111.16	113.06	111.60	114.80	119.95	117.52	112.31	110.70	110.48	110.39	
19	110.13	110.22	111.23	112.95	111.65	115.26	119.92	117.38	112.19	110.69	110.47	110.38	
20	110.12	110.25	111.30	112.87	111.60	115.74	119.87	117.11	112.05	110.69	110.46	110.37	
21	110.12	110.23	111.33	112.85	111.48	116.10	119.82	116.93	111.93	110.68	110.44	110.36	
22	110.12	110.26	111.43	112.84	111.45	116.41	119.72	116.72	111.81	110.68	110.45	110.35	
23	110.12	110.27	111.77	112.88	111.46	116.68	119.66	116.52	111.69	110.67	110.47	110.35	
24	110.13	110.26	112.02	112.92	111.42	116.98	119.59	116.33	111.57	110.66	110.44	110.35	
25	110.13	110.26	112.23	112.98	111.50	117.35	119.50	116.11	111.46	110.66	110.43	110.35	
26	110.12	110.26	112.46	113.02	111.46	117.69	119.40	115.89	111.37	110.65	110.45	110.34	
27	110.12	110.45	112.71	113.06	111.44	117.97	119.31	115.69	111.31	110.62	110.46	110.33	
28	110.12	110.47	112.96	113.16	111.47	118.18	119.21	115.49	111.24	110.62	110.46	110.32	
29	110.12	110.47	113.08	113.27	111.52	118.37	119.12	115.26	111.19	110.61		110.33	
30	110.15	110.44	113.15	113.38	111.56	118.55	119.06	115.04	111.16	110.61		110.32	
31		110.40		113.49	111.57		118.98		111.11	110.60		110.32	
MEAN	110.15	110.23	111.21	113.28	112.04	114.51	119.53	117.57	112.65	110.78	110.50	110.39	
MAX	110.19	110.47	113.15	113.68	113.48	118.55	119.96	118.93	114.81	111.08	110.59	110.46	119.96
MIN	110.12	110.11	110.34	112.84	111.42	111.67	118.71	115.04	111.11	110.60	110.43	110.32	110.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 119.96 M (MSL), AT 18.00 HOURS, ON OCT 17, 1980
ZERO GAGE AT BOTTOM ELEVATION 110.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 124.77 M (MSL)
RIGHT BANK ELEVATION 122.89 M (MSL), DRAINAGE AREA 44275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.8	2.4	7.1	254.3	281.8	96.3	1213.0	1284.2	446.3	48.4	16.5	10.4	
2	2.8	2.7	6.5	260.9	277.4	108.9	1263.8	1267.2	419.0	45.2	16.0	10.0	
3	2.7	2.4	6.2	267.5	265.3	124.2	1311.4	1257.0	393.0	42.8	15.5	9.6	
4	2.6	2.2	6.2	273.0	251.0	127.8	1355.6	1250.2	369.6	42.0	14.5	9.6	
5	2.7	2.2	7.1	278.5	232.3	128.7	1399.8	1243.4	349.0	41.3	15.0	9.6	
6	2.7	2.2	8.8	284.0	213.6	134.1	1437.2	1240.0	329.8	40.6	14.5	9.2	
7	2.4	2.1	10.8	290.6	191.6	143.1	1474.6	1231.0	313.0	37.8	13.5	8.8	
8	2.4	1.9	9.6	293.9	172.0	146.0	1508.6	1222.0	295.0	35.0	13.0	8.4	
9	2.4	1.8	9.6	299.8	159.0	150.0	1542.6	1204.0	281.8	33.2	12.5	8.4	
10	2.6	1.8	10.0	304.6	147.0	159.0	1569.8	1183.0	266.4	31.4	12.5	8.8	
11	2.7	1.6	10.8	303.4	136.8	197.1	1586.8	1159.0	251.0	29.6	12.0	8.0	
12	2.4	2.4	21.8	298.6	126.9	227.9	1600.4	1132.0	236.7	28.4	12.0	8.0	
13	2.4	2.1	20.0	292.8	116.1	257.6	1607.2	1106.0	222.4	27.2	12.0	8.4	
14	2.4	2.8	25.4	286.2	107.1	278.5	1617.8	1066.0	207.0	26.6	12.0	8.0	
15	2.2	2.7	33.2	277.4	101.7	309.4	1625.4	1029.6	197.1	25.4	11.6	8.0	
16	2.1	2.8	42.0	263.1	97.2	344.2	1636.8	988.0	183.9	24.2	11.6	8.0	
17	1.9	3.6	50.0	251.0	93.6	387.8	1636.8	936.0	169.0	23.6	11.6	8.0	
18	1.9	5.6	54.8	235.6	90.0	445.0	1633.0	890.8	155.0	23.0	11.2	7.7	
19	1.9	3.4	60.4	223.5	94.5	504.8	1621.6	857.6	143.1	22.4	10.8	7.4	
20	1.8	4.0	66.0	214.7	90.0	567.2	1603.8	798.2	130.5	22.4	10.4	7.1	
21	1.8	3.6	68.4	212.5	80.4	620.0	1586.8	763.4	119.7	21.8	9.6	6.8	
22	1.8	4.2	76.4	211.4	78.0	669.8	1552.8	725.6	108.9	21.8	10.0	6.5	
23	1.8	4.4	105.3	215.8	78.8	718.4	1532.4	689.6	98.1	21.2	10.8	6.5	
24	1.9	4.2	127.8	220.2	75.6	772.4	1508.6	655.4	87.6	20.6	9.6	6.5	
25	1.9	4.2	147.0	226.8	82.0	851.0	1478.0	621.5	78.8	20.6	9.2	6.5	
26	1.8	4.2	170.0	231.2	78.8	933.4	1444.0	588.5	71.6	20.0	10.0	6.2	
27	1.8	10.0	197.1	235.6	77.2	1006.2	1413.4	560.7	66.8	18.2	10.4	5.9	
28	1.8	10.8	224.6	246.6	79.6	1060.8	1379.4	534.7	61.2	18.2	10.4	5.6	
29	1.8	10.8	237.8	258.7	83.6	1111.6	1348.8	504.8	57.2	17.6		5.9	
30	2.2	9.6	245.5	270.8	86.8	1165.0	1328.4	476.2	54.8	17.6		5.6	
31		8.0		282.9	87.6		1301.2		50.8	17.0		5.6	
TOTAL	66.4	126.7	2066.2	8065.9	4133.3	13746.2	46119.7	28465.6	6214.1	865.1	338.7	239.0	110446.8 CMSDAY
MEAN	2.2	4.1	68.9	260.2	133.3	458.2	1487.7	948.9	200.5	27.9	12.1	7.7	302.6 CMS
MAX	2.8	10.8	245.5	304.6	281.8	1165.0	1636.8	1284.2	446.3	48.4	16.5	10.4	1636.8 CMS
MIN	1.8	1.6	6.2	211.4	75.6	96.3	1213.0	476.2	50.8	17.0	9.2	5.6	1.6 CMS
RUNOFF	5.74	10.95	178.52	696.89	357.12	1187.67	3984.75	2459.43	536.90	74.74	29.26	20.65	9542.60 MCM

MOMENTARY PEAK 1636.80 CMS, AT 119.96 M (MSL), AT 16.00 HOURS, ON OCT 17, 1980

RUNOFF YIELD 6.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 36.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

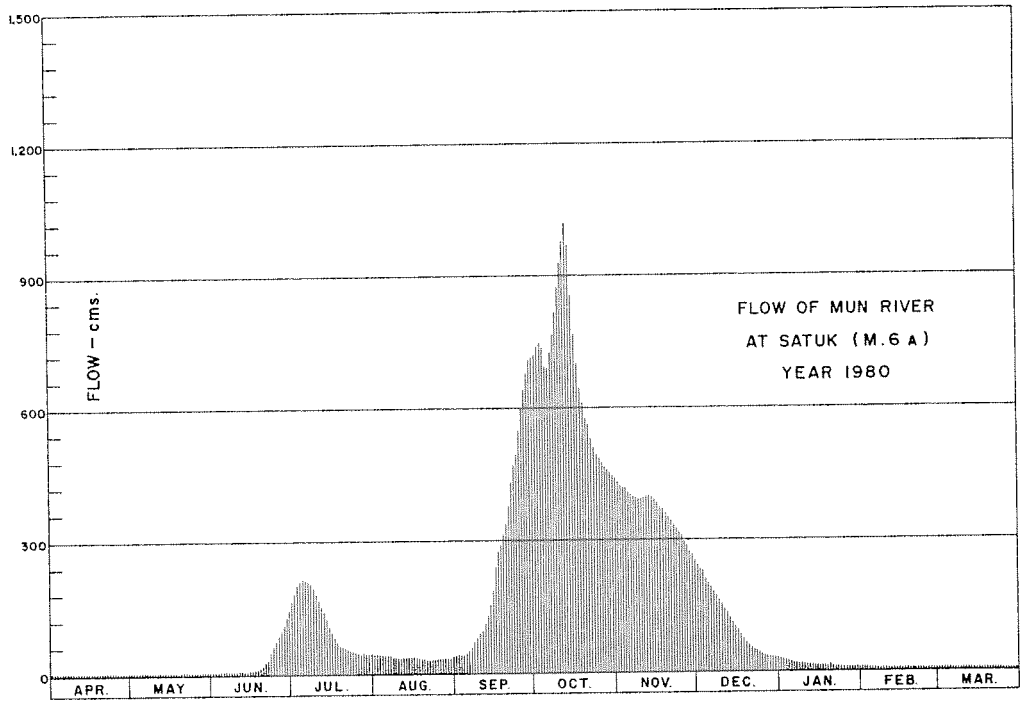
MUN RIVER AT SATUK, BURI RAM (M.6A)

LOCATION	LAT. 15°-17'-44" N., LONG. 103°-17'-51" E., ON RIGHT BANK INFRONT OF AMPHOE SATUK OFFICE, BURI RAM.
DRAINAGE AREA	28.275 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+124.00 M. (M.S.L.)
BENCH MARK	B.M.-B.M.P.1383
LOCATION	INFRONT OF THE POST OFFICE AND ABOUT 80 METERS FROM STAFF GAGE LINE.
ELEVATION	+132.3289 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	1976 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1976 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +129.52 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 223 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	124.38	124.31	124.55	127.72	125.86	125.86	129.97	129.33	128.44	125.56	124.93	124.72	
2	124.39	124.31	124.57	127.92	125.88	125.86	130.00	129.29	128.36	125.50	124.92	124.71	
3	124.39	124.31	124.61	128.09	125.86	125.84	130.01	129.28	128.28	125.43	124.92	124.70	
4	124.39	124.33	124.67	128.18	125.84	125.91	129.99	129.27	128.20	125.40	124.90	124.75	
5	124.41	124.35	124.77	128.22	125.82	126.04	129.93	129.24	128.12	125.37	124.89	124.75	
6	124.42	124.36	124.79	128.20	125.81	126.20	129.92	129.23	128.02	125.34	124.88	124.74	
7	124.42	124.36	124.78	128.16	125.80	126.38	129.98	129.21	127.92	125.32	124.87	124.72	
8	124.42	124.36	124.78	128.12	125.75	126.57	130.03	129.19	127.83	125.29	124.87	124.73	
9	124.41	124.35	124.78	128.03	125.74	126.73	130.09	129.18	127.72	125.26	124.87	124.73	
10	124.40	124.35	124.78	127.92	125.74	126.84	130.15	129.18	127.59	125.24	124.86	124.71	
11	124.39	124.35	124.83	127.78	125.73	127.07	130.21	129.18	127.48	125.20	124.83	124.67	
12	124.37	124.38	124.82	127.61	125.73	127.33	130.26	129.20	127.35	125.19	124.82	124.67	
13	124.36	124.37	124.78	127.43	125.73	127.63	130.30	129.20	127.21	125.17	124.82	124.66	
14	124.36	124.36	124.79	127.23	125.73	127.97	130.25	129.19	127.08	125.15	124.81	124.64	
15	124.36	124.36	124.78	127.01	125.73	128.41	130.14	129.17	126.94	125.14	124.80	124.67	
16	124.35	124.35	124.85	126.80	125.73	128.63	130.05	129.15	126.76	125.14	124.78	124.65	
17	124.35	124.44	125.00	126.59	125.71	128.72	129.95	129.11	126.60	125.14	124.76	124.65	
18	124.34	124.44	125.09	126.35	125.66	128.83	129.86	129.09	126.43	125.13	124.76	124.65	
19	124.33	124.45	125.17	126.25	125.62	128.95	129.80	129.05	126.27	125.12	124.76	124.64	
20	124.32	124.48	125.32	126.18	125.60	129.11	129.74	129.02	126.17	125.19	124.76	124.64	
21	124.31	124.50	125.52	126.12	125.60	129.31	129.69	128.99	126.08	125.09	124.76	124.62	
22	124.33	124.52	125.64	126.09	125.60	129.45	129.62	128.95	126.01	125.05	124.75	124.61	
23	124.33	124.51	125.97	126.05	125.61	129.52	129.56	128.91	125.95	125.04	124.74	124.61	
24	124.31	124.49	126.23	126.00	125.62	129.65	129.52	128.87	125.89	125.04	124.73	124.60	
25	124.31	124.49	126.45	125.96	125.64	129.77	129.50	128.82	125.82	125.03	124.73	124.59	
26	124.32	124.49	126.68	125.91	125.64	129.86	129.47	128.77	125.77	125.01	124.72	124.58	
27	124.32	124.52	126.85	125.88	125.65	129.90	129.44	128.71	125.73	125.00	124.74	124.58	
28	124.32	124.53	127.03	125.93	125.67	129.94	129.41	128.62	125.69	124.98	124.74	124.57	
29	124.32	124.52	127.27	125.90	125.71	129.96	129.39	128.58	125.66	124.96		124.56	
30	124.31	124.50	127.51	125.90	125.78	129.96	129.37	128.50	125.62	124.96		124.57	
31		124.53		125.89	125.83		129.36		125.59	124.95		124.57	
MEAN	124.36	124.42	125.39	126.95	125.72	128.07	129.84	129.05	126.86	125.17	124.81	124.65	
MAX	124.42	124.53	127.51	128.22	125.88	129.96	130.30	129.33	128.44	125.56	124.93	124.75	130.30
MIN	124.31	124.31	124.55	125.88	125.60	125.84	129.36	128.50	125.59	124.95	124.72	124.56	124.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 130.30 M (MSL), AT 1.00 HOURS, ON OCT 13, 1980
ZERO GAGE AT BOTTOM ELEVATION 124.00 M (MSL), RIVER BED 122.27 M (MSL)
LEFT BANK ELEVATION 129.52 M (MSL)
RIGHT BANK ELEVATION 132.20 M (MSL), DRAINAGE AREA 28275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.8	1.1	3.5	163.6	43.4	43.4	720.8	435.6	245.4	30.4	9.6	5.4	
2	1.9	1.1	3.7	182.0	44.5	43.4	740.0	423.4	233.0	28.0	9.4	5.2	
3	1.9	1.1	4.1	199.0	43.4	42.3	748.8	420.8	221.6	25.2	9.4	5.0	
4	1.9	1.3	4.7	209.6	42.3	46.2	733.6	418.2	212.0	24.0	9.0	6.0	
5	2.1	1.5	6.4	214.4	41.1	53.6	695.2	410.4	202.4	22.8	8.8	6.0	
6	2.2	1.6	6.8	212.0	40.6	62.7	688.8	407.8	192.0	21.6	8.6	5.8	
7	2.2	1.6	6.6	207.2	40.0	72.9	727.2	402.6	182.0	20.8	8.4	5.4	
8	2.2	1.6	6.6	202.4	38.0	83.6	766.4	397.4	173.0	19.7	8.4	5.6	
9	2.1	1.5	6.6	193.0	37.6	92.7	819.2	394.8	163.6	18.6	8.4	5.6	
10	2.0	1.5	6.6	182.0	37.6	98.9	874.0	394.8	153.2	17.9	8.0	5.2	
11	1.9	1.5	7.6	168.4	37.2	112.9	930.0	394.8	144.4	16.5	7.6	4.7	
12	1.7	1.8	7.4	154.8	37.2	132.4	980.0	400.0	134.0	16.1	7.4	4.7	
13	1.6	1.7	6.6	140.4	37.2	156.4	1020.0	400.0	122.8	15.5	7.4	4.6	
14	1.6	1.6	6.8	124.4	37.2	187.0	970.0	397.4	113.6	14.8	7.2	4.4	
15	1.6	1.6	6.6	108.7	37.2	240.6	864.8	392.2	104.6	14.4	7.0	4.7	
16	1.5	1.5	8.0	96.7	37.2	275.8	784.0	387.0	94.4	14.4	6.6	4.5	
17	1.5	2.4	11.0	84.8	36.4	290.8	708.0	376.6	85.3	14.4	6.2	4.5	
18	1.4	2.4	12.8	71.2	34.4	312.0	651.2	371.6	75.7	14.0	6.2	4.5	
19	1.3	2.5	15.5	65.5	32.8	338.0	614.0	362.0	66.6	13.7	6.2	4.4	
20	1.2	2.8	20.8	61.5	32.0	376.6	587.6	354.8	61.0	16.1	6.2	4.4	
21	1.1	3.0	28.8	58.1	32.0	429.2	565.6	347.6	55.9	12.8	6.2	4.2	
22	1.3	3.2	33.6	56.4	32.0	474.0	534.8	338.0	51.9	12.0	6.0	4.1	
23	1.3	3.1	49.6	54.2	32.4	497.2	511.6	328.4	48.5	11.8	5.8	4.1	
24	1.1	2.9	64.4	51.3	32.8	548.0	497.2	320.0	45.1	11.8	5.6	4.0	
25	1.1	2.9	76.8	49.1	33.6	600.8	490.0	310.0	41.1	11.6	5.6	3.9	
26	1.2	2.9	89.9	46.2	33.6	651.2	480.4	300.3	38.8	11.2	5.4	3.8	
27	1.2	3.2	99.5	44.5	34.0	676.0	470.8	288.9	37.2	11.0	5.8	3.8	
28	1.2	3.3	110.1	47.4	34.8	701.6	461.2	274.2	35.6	10.6	5.8	3.7	
29	1.2	3.2	127.6	45.7	36.4	714.4	454.8	267.8	34.4	10.2		3.6	
30	1.1	3.0	146.8	45.7	39.2	714.4	448.4	255.0	32.8	10.2		3.7	
31		3.3		45.1	41.7		445.2		31.6	10.0		3.7	
TOTAL	47.4	67.7	985.8	3585.3	1149.8	9069.0	20983.6	10972.4	3433.5	502.1	202.2	143.2	51141.9 CMSDAY
MEAN	1.6	2.2	32.9	115.7	37.1	302.3	676.9	365.7	110.8	16.2	7.2	4.6	140.1 CMS
MAX	2.2	3.3	146.8	214.4	44.5	714.4	1020.0	435.6	245.4	30.4	9.6	6.0	1020.0 CMS
MIN	1.1	1.1	3.5	44.5	32.0	42.3	445.2	255.0	31.6	10.0	5.4	3.6	1.1 CMS
RUNOFF	4.10	5.85	85.17	309.77	99.34	783.56	1812.98	948.01	296.65	43.38	17.47	12.37	4418.66 MCM

MOMENTARY PEAK 1020.00 CMS, AT 130.30 M (MSL), AT 1.00 HOURS, ON OCT 13, 1980

RUNOFF YIELD 4.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 36.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

MUN RIVER AT UBON RATCHATHANI, UBON RATCHATHANI (M.7)

LOCATION — LAT. 15°-13'-17" N., LONG. 104°-51'-39" E., ON LEFT BANK AT THE ABUTMENT OF SERI PRACHATHIPPATAI BRIDGE, AMPHOE MUANG, UBON RATCHATHANI.

DRAINAGE AREA — 106,673 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +105.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE ABUTMENT OF THE BRIDGE.

ELEVATION — +113.317 M. (M.S.L.)

GAGE READING FREQUENCY — 3-5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3-5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1948 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1956-1958, 1964 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1956-1958, 1964 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

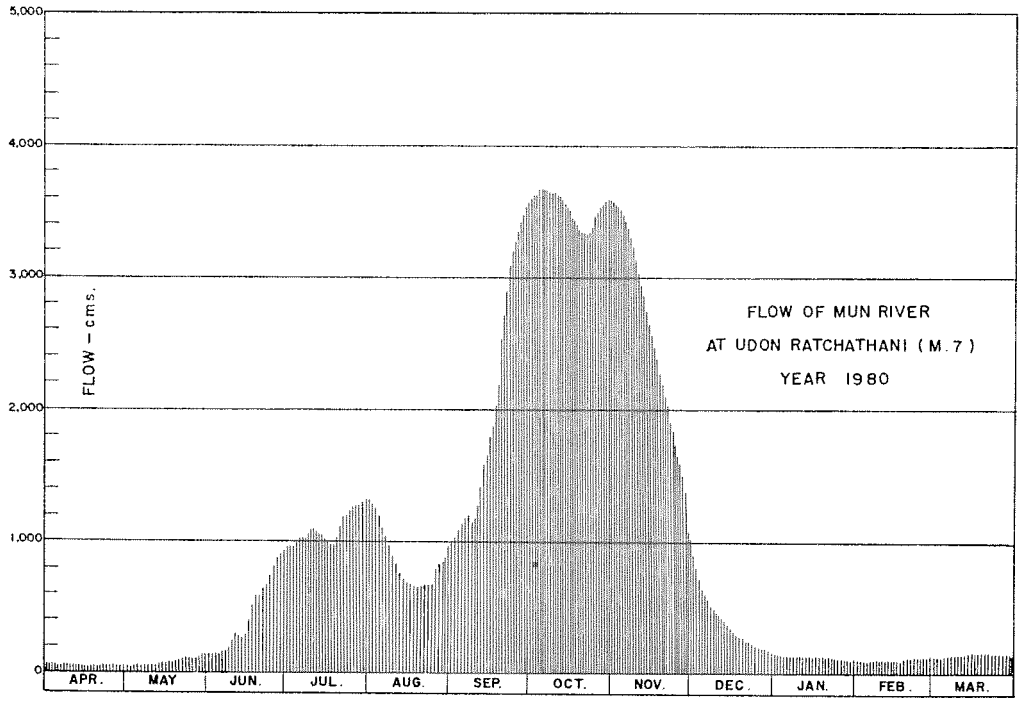
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 52 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING JAN.1-31,1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	106.60	106.55	107.01	109.28	110.08	109.38	113.75	113.73	109.35	107.04	106.87	106.94	
2	106.59	106.54	106.99	109.30	110.06	109.41	113.76	113.71	109.02	107.02	106.88	106.94	
3	106.58	106.54	107.01	109.31	109.99	109.48	113.79	113.68	108.88	106.98	106.88	106.94	
4	106.56	106.57	107.02	109.30	109.89	109.60	113.82	113.65	108.73	106.96	106.88	106.95	
5	106.54	106.59	107.05	109.37	109.77	109.61	113.82	113.60	108.59	106.95	106.88	106.96	
6	106.52	106.61	107.05	109.44	109.64	109.54	113.82	113.54	108.48	106.95	106.87	106.97	
7	106.51	106.62	107.09	109.43	109.50	109.58	113.84	113.45	108.38	106.96	106.87	106.98	
8	106.51	106.63	107.11	109.41	109.36	109.56	113.81	113.36	108.29	106.98	106.87	106.98	
9	106.58	106.65	107.15	109.46	109.23	109.53	113.81	113.25	108.23	106.99	106.86	106.99	
10	106.60	106.65	107.28	109.55	109.12	109.71	113.80	113.13	108.16	106.99	106.86	106.99	
11	106.61	106.65	107.47	109.60	109.03	109.96	113.78	113.01	108.08	106.98	106.86	106.98	
12	106.60	106.66	107.61	109.57	108.93	110.30	113.76	112.88	108.01	106.98	106.85	106.99	
13	106.60	106.67	107.56	109.53	108.84	110.54	113.74	112.77	107.93	106.97	106.86	107.00	
14	106.58	106.67	107.49	109.49	108.76	110.69	113.71	112.63	107.86	106.97	106.88	107.01	
15	106.55	106.67	107.50	109.45	108.69	110.88	113.67	112.49	107.80	106.96	106.89	107.02	
16	106.54	106.67	107.58	109.41	108.65	111.07	113.62	112.34	107.73	106.96	106.89	107.03	
17	106.54	106.73	107.96	109.36	108.63	111.27	113.57	112.16	107.65	106.96	106.89	107.05	
18	106.56	106.73	108.24	109.29	108.60	111.55	113.52	112.03	107.62	106.94	106.90	107.06	
19	106.58	106.73	108.41	109.34	108.59	111.86	113.48	111.87	107.57	106.94	106.90	107.06	
20	106.60	106.75	108.43	109.47	108.62	112.23	113.44	111.67	107.53	106.93	106.90	107.06	
21	106.61	106.79	108.46	109.65	108.63	112.59	113.42	111.66	107.46	106.93	106.94	107.05	
22	106.63	106.83	108.54	109.77	108.62	112.86	113.42	111.49	107.40	106.93	106.94	107.05	
23	106.63	106.95	108.58	109.83	108.62	113.06	113.44	111.31	107.34	106.93	106.94	107.05	
24	106.63	106.91	108.73	109.88	108.72	113.23	113.50	111.18	107.32	106.93	106.94	107.04	
25	106.64	106.88	108.87	109.91	108.66	113.35	113.57	110.91	107.28	106.92	106.93	107.03	
26	106.63	106.86	108.98	109.95	108.79	113.44	113.63	110.82	107.23	106.91	106.93	107.03	
27	106.63	106.92	109.07	110.01	108.97	113.52	113.67	110.62	107.21	106.91	106.93	107.03	
28	106.61	106.95	109.15	109.99	108.97	113.60	113.71	110.38	107.20	106.89	106.93	107.03	
29	106.59	106.97	109.18	110.03	108.98	113.66	113.73	110.06	107.16	106.86		107.03	
30	106.56	107.03	109.24	110.09	109.10	113.72	113.74	109.73	107.13	106.86		107.03	
31		107.03		110.09	109.24		113.74		107.08	106.87		107.02	
MEAN	106.58	106.74	107.93	109.60	109.07	111.29	113.67	112.24	107.86	106.95	106.89	107.01	
MAX	106.64	107.03	109.24	110.09	110.08	113.72	113.84	113.73	109.35	107.04	106.94	107.06	113.84
MIN	106.51	106.54	106.99	109.28	108.59	109.38	113.42	109.73	107.08	106.86	106.85	106.94	106.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 113.84 M (MSL), AT 6.00 HOURS, ON OCT 7, 1980
ZERO GAGE AT BOTTOM ELEVATION 105.00 M (MSL), RIVER BED 100.95 M (MSL)
LEFT BANK ELEVATION 120.80 M (MSL)
RIGHT BANK ELEVATION 117.36 M (MSL), DRAINAGE AREA 106673 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	60.	52.	147.	961.	1321.	1006.	3595.	3577.	992.	155.	114.	130.	
2	59.	51.	142.	970.	1312.	1019.	3604.	3559.	844.	150.	116.	130.	
3	57.	51.	147.	974.	1280.	1051.	3631.	3534.	781.	140.	116.	130.	
4	54.	56.	150.	970.	1236.	1105.	3658.	3510.	713.	135.	116.	133.	
5	51.	59.	157.	1001.	1181.	1109.	3658.	3470.	656.	133.	116.	135.	
6	48.	62.	157.	1033.	1123.	1078.	3658.	3422.	612.	133.	114.	137.	
7	47.	64.	168.	1028.	1060.	1096.	3676.	3350.	572.	135.	114.	140.	
8	47.	66.	172.	1019.	997.	1087.	3649.	3278.	536.	140.	114.	140.	
9	57.	70.	182.	1042.	938.	1074.	3649.	3190.	512.	142.	112.	142.	
10	60.	70.	215.	1082.	889.	1154.	3640.	3097.	486.	142.	112.	142.	
11	62.	70.	262.	1105.	849.	1267.	3622.	3008.	458.	140.	112.	140.	
12	60.	72.	303.	1091.	803.	1420.	3604.	2910.	433.	140.	110.	142.	
13	60.	74.	288.	1074.	763.	1530.	3586.	2829.	405.	137.	112.	145.	
14	57.	74.	267.	1055.	727.	1605.	3559.	2731.	381.	137.	116.	147.	
15	52.	74.	270.	1037.	696.	1700.	3526.	2638.	360.	135.	118.	150.	
16	51.	74.	294.	1019.	680.	1795.	3486.	2541.	339.	135.	118.	153.	
17	51.	86.	416.	997.	672.	1895.	3446.	2424.	315.	135.	118.	157.	
18	54.	86.	516.	965.	660.	2047.	3406.	2340.	306.	130.	120.	160.	
19	57.	86.	584.	988.	656.	2229.	3374.	2236.	291.	130.	120.	160.	
20	60.	90.	592.	1046.	668.	2470.	3342.	2114.	279.	127.	120.	160.	
21	62.	98.	604.	1127.	672.	2704.	3326.	2108.	260.	127.	130.	157.	
22	66.	106.	636.	1181.	668.	2895.	3326.	2014.	245.	127.	130.	157.	
23	66.	133.	652.	1208.	668.	3045.	3342.	1916.	230.	127.	130.	157.	
24	66.	122.	713.	1231.	709.	3174.	3390.	1850.	225.	127.	130.	155.	
25	68.	116.	776.	1244.	684.	3270.	3446.	1715.	215.	125.	127.	153.	
26	66.	112.	826.	1262.	740.	3342.	3494.	1670.	202.	122.	127.	153.	
27	66.	125.	866.	1289.	821.	3406.	3526.	1570.	197.	122.	127.	153.	
28	62.	133.	902.	1280.	821.	3470.	3559.	1456.	195.	118.	127.	153.	
29	59.	137.	916.	1298.	826.	3518.	3577.	1312.	185.	112.		153.	
30	54.	153.	943.	1325.	880.	3568.	3586.	1163.	177.	112.		153.	
31		153.		1325.	943.		3586.		165.	114.		150.	
TOTAL	1739.	2775.	13263.	34227.	26943.	61129.	109527.	76532.	12567.	4084.	3336.	4567.	350689. CMSDAY
MEAN	58.	90.	442.	1104.	869.	2038.	3533.	2551.	405.	132.	119.	147.	961. CMS
MAX	68.	153.	943.	1325.	1321.	3568.	3676.	3577.	992.	155.	130.	160.	3676. CMS
MIN	47.	51.	142.	961.	656.	1006.	3326.	1163.	165.	112.	110.	130.	47. CMS
RUNOFF	150.2	239.8	1145.9	2957.2	2327.9	5281.5	9463.1	6612.4	1085.8	352.9	288.2	394.6	30299.5 MCM

MOMENTARY PEAK 3676.00 CMS, AT 113.84 M (MSL), AT 6.00 HOURS, ON OCT 7, 1980

RUNOFF YIELD 9.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 34.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

LAM PLAI MAT AT LAM PLAI MAT, BURI RAM (M.8)

LOCATION — LAT. 15°-01'-05" N., LONG. 102°-48'-55" E., ON LEFT BANK ABOUT 60 METERS UPSTREAM FROM RAILWAY BRIDGE, AMPHOE LAM PLAI MAT, BURI RAM.

DRAINAGE AREA — 5,025 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +149.50 M. (M.S.L.)

BENCH MARK — B.M.-M.8

LOCATION — AT THE FOOT OF THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +155.859 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1951 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

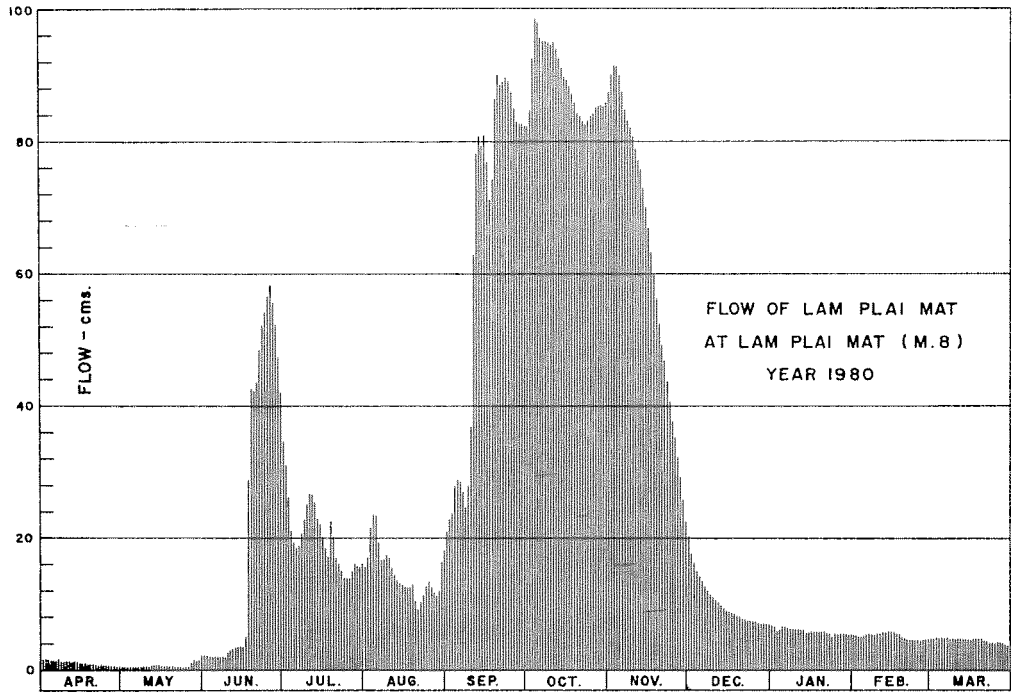
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +154.20 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 96 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	150.45	150.26	150.58	154.14	152.23	152.72	156.43	156.61	152.66	151.20	151.05	150.95	
2	150.46	150.26	150.58	153.69	152.39	152.93	156.51	156.69	152.43	151.19	151.05	150.95	
3	150.46	150.25	150.57	153.24	152.82	153.04	156.76	156.74	152.27	151.12	151.03	150.96	
4	150.45	150.25	150.57	152.84	153.02	153.40	156.95	156.74	152.15	151.15	151.02	150.96	
5	150.45	150.26	150.57	152.60	153.01	153.49	156.94	156.70	152.06	151.19	151.03	150.96	
6	150.45	150.26	150.57	152.50	152.66	153.45	156.87	156.61	151.98	151.18	151.05	150.97	
7	150.46	150.26	150.57	152.54	152.32	153.32	156.85	156.53	151.90	151.17	151.06	150.96	
8	150.42	150.26	150.57	152.70	152.33	153.11	156.85	156.47	151.83	151.16	151.04	150.94	
9	150.42	150.26	150.56	152.98	152.36	153.40	156.84	156.43	151.77	151.16	151.04	150.93	
10	150.42	150.26	150.69	153.18	152.34	154.17	156.83	156.38	151.72	151.16	151.06	150.93	
11	150.42	150.26	150.72	153.30	152.20	155.73	156.84	156.32	151.67	151.15	151.06	150.93	
12	150.42	150.26	150.74	153.30	152.09	156.30	156.81	156.26	151.63	151.14	151.08	150.93	
13	150.42	150.27	150.75	153.15	152.00	156.38	156.77	156.22	151.57	151.14	151.08	150.93	
14	150.39	150.27	150.76	152.98	151.96	156.33	156.72	156.12	151.53	151.08	151.09	150.93	
15	150.34	150.27	150.76	152.87	151.99	156.39	156.68	156.01	151.49	151.09	151.10	150.92	
16	150.34	150.26	150.76	152.68	151.88	156.25	156.67	155.89	151.47	151.10	151.10	150.93	
17	150.34	150.26	151.02	152.50	151.87	156.06	156.64	155.74	151.45	151.10	151.08	150.93	
18	150.33	150.26	153.50	152.42	151.87	156.17	156.60	155.59	151.43	151.10	151.05	150.94	
19	150.33	150.26	154.60	152.92	151.90	156.57	156.55	155.42	151.41	151.10	151.02	150.94	
20	150.33	150.26	154.57	152.67	151.69	156.69	156.52	155.23	151.39	151.11	150.99	150.93	
21	150.30	150.26	154.68	152.35	151.51	156.64	156.49	155.04	151.37	151.11	150.97	150.91	
22	150.29	150.25	154.98	152.26	151.64	156.66	156.46	154.86	151.36	151.08	150.94	150.89	
23	150.30	150.25	155.19	152.16	151.78	156.68	156.45	154.69	151.34	151.07	150.94	150.88	
24	150.29	150.25	155.30	152.10	151.90	156.66	156.47	154.45	151.33	151.02	150.94	150.88	
25	150.28	150.25	155.44	152.09	151.93	156.61	156.49	154.23	151.31	151.05	150.94	150.88	
26	150.28	150.25	155.52	152.09	151.87	156.52	156.50	154.02	151.29	151.06	150.95	150.88	
27	150.28	150.36	155.40	152.18	151.80	156.46	156.52	153.77	151.27	151.06	150.95	150.89	
28	150.28	150.48	155.19	152.28	151.74	156.45	156.53	153.50	151.26	151.06	150.95	150.87	
29	150.26	150.46	154.91	152.24	151.86	156.45	156.53	153.22	151.27	151.05		150.84	
30	150.26	150.48	154.56	152.22	152.24	156.44	156.53	152.92	151.26	151.05		150.83	
31		150.58		152.29	152.46		156.55		151.25	151.05		150.83	
MEAN	150.36	150.29	152.51	152.69	152.12	155.38	156.65	155.51	151.62	151.11	151.02	150.92	
MAX	150.46	150.58	155.52	154.14	153.02	156.69	156.95	156.74	152.66	151.20	151.10	150.97	156.95
MIN	150.26	150.25	150.56	152.09	151.51	152.72	156.43	152.92	151.25	151.02	150.94	150.83	150.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 156.98 M (MSL), AT 1.00 HOURS, ON OCT 5, 1980
ZERO GAGE AT BOTTOM ELEVATION 149.50 M (MSL), RIVER BED 149.80 M (MSL)
LEFT BANK ELEVATION 155.41 M (MSL)
RIGHT BANK ELEVATION 154.20 M (MSL), DRAINAGE AREA 5025 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.55	0.64	2.20	36.58	15.80	20.70	62.10	87.52	20.10	6.60	5.40	4.65	
2	1.60	0.64	2.20	31.18	17.40	22.80	84.50	90.08	17.80	6.52	5.40	4.65	
3	1.60	0.60	2.15	26.14	21.70	23.94	92.32	91.68	16.20	5.96	5.24	4.72	
4	1.55	0.60	2.15	21.90	23.72	27.90	96.40	91.68	15.00	6.20	5.16	4.72	
5	1.55	0.64	2.15	19.50	23.61	28.89	98.08	90.40	14.14	6.52	5.24	4.72	
6	1.55	0.64	2.15	18.50	20.10	28.45	95.84	87.52	13.42	6.44	5.40	4.79	
7	1.60	0.64	2.15	18.90	16.70	27.02	95.20	85.10	12.70	6.36	5.48	4.72	
8	1.40	0.64	2.15	20.50	16.80	24.71	95.20	83.30	12.07	6.28	5.32	4.58	
9	1.40	0.64	2.10	23.30	17.10	27.90	94.88	82.10	11.53	6.28	5.32	4.51	
10	1.40	0.64	2.84	25.48	16.90	36.94	94.56	80.60	11.08	6.28	5.48	4.51	
11	1.40	0.64	3.04	26.80	15.50	62.99	94.88	78.80	10.63	6.20	5.48	4.51	
12	1.40	0.64	3.18	26.80	14.41	78.20	93.92	77.00	10.27	6.12	5.64	4.51	
13	1.40	0.68	3.25	25.15	13.60	80.60	92.64	75.80	9.73	6.12	5.64	4.51	
14	1.25	0.68	3.32	23.30	13.24	79.10	91.04	73.04	9.37	5.64	5.72	4.51	
15	1.00	0.68	3.32	22.20	13.51	80.90	89.76	70.07	9.01	5.72	5.80	4.44	
16	1.00	0.64	3.32	20.30	12.52	76.70	89.44	66.85	8.83	5.80	5.80	4.51	
17	1.00	0.64	5.16	18.50	12.43	71.42	88.48	63.22	8.65	5.80	5.64	4.51	
18	0.95	0.64	29.00	17.70	12.43	74.39	87.20	59.78	8.47	5.80	5.40	4.58	
19	0.95	0.64	42.60	22.70	12.70	86.30	85.70	56.20	8.29	5.80	5.16	4.58	
20	0.95	0.64	42.18	20.20	10.81	90.08	84.80	52.74	8.12	5.88	4.93	4.51	
21	0.80	0.64	43.72	17.00	9.19	88.48	83.90	49.48	7.96	5.88	4.79	4.37	
22	0.76	0.60	48.46	16.10	10.36	89.12	83.00	46.46	7.88	5.64	4.58	4.23	
23	0.80	0.60	52.03	15.10	11.62	89.76	82.70	43.86	7.72	5.56	4.58	4.16	
24	0.76	0.60	54.00	14.50	12.70	89.12	83.30	40.50	7.64	5.16	4.58	4.16	
25	0.72	0.60	56.60	14.41	12.97	87.52	83.90	37.66	7.48	5.40	4.58	4.16	
26	0.72	0.60	58.24	14.41	12.43	84.80	84.20	35.14	7.32	5.48	4.65	4.16	
27	0.72	1.10	55.80	15.30	11.80	83.00	84.80	32.14	7.16	5.48	4.65	4.23	
28	0.72	1.70	52.03	16.30	11.26	82.70	85.10	29.00	7.08	5.48	4.65	4.09	
29	0.64	1.60	47.27	15.90	12.34	82.70	85.10	25.92	7.16	5.40		3.88	
30	0.64	1.70	42.04	15.70	15.90	82.40	85.10	22.70	7.08	5.40		3.81	
31		2.20		16.40	18.10		85.70		7.00	5.40		3.81	
TOTAL	33.78	24.78	670.80	636.75	459.65	1909.53	2755.74	1906.34	316.89	182.60	145.71	136.80	9179.36 CMSDAY
MEAN	1.13	0.80	22.36	20.54	14.83	63.65	88.89	63.54	10.22	5.89	5.20	4.41	25.15 CMS
MAX	1.60	2.20	58.24	36.58	23.72	90.08	98.40	91.68	20.10	6.60	5.80	4.79	98.40 CMS
MIN	0.64	0.60	2.10	14.41	9.19	20.70	82.10	22.70	7.00	5.16	4.58	3.81	0.60 CMS
RUNOFF	2.919	2.141	57.957	55.015	39.714	164.983	238.096	164.708	27.379	15.777	12.589	11.820	793.096 MCM

MOMENTARY PEAK 99.36 CMS, AT 156.98 M (MSL), AT 1.00 HOURS, ON OCT 5, 1980

RUNOFF YIELD 5.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 19.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI SAMRAN AT SI SA KET, SI SA KET (M.9)

LOCATION — LAT. 15°-07'-00" N., LONG. 104°-19'-20" E., ON LEFT BANK DOWNSTREAM SIDE OF THE BRIDGE AND ABOUT 200 METERS NORTH OF CITY JAIL, AMPHOE MUANG, SI SA KET.

DRAINAGE AREA — 3,026 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +109.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D./R.I.D.

LOCATION — ON RIGHT BANK ALONG THE MEASURING LINE.

ELEVATION — +122.055 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1954 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1954, 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1954, 1972 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

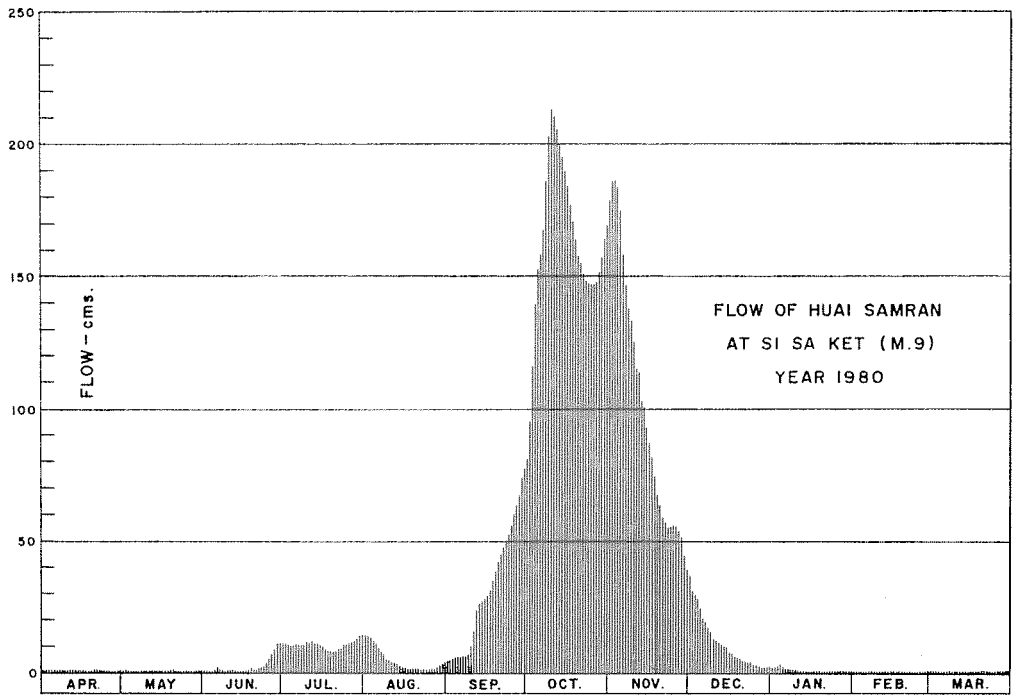
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	109.10	109.07	109.15	111.96	111.91	110.57	117.44	119.21	113.62	109.99	109.30	109.21	
2	109.12	109.07	109.16	111.53	111.92	110.62	117.88	119.36	113.31	109.99	109.28	109.26	
3	109.12	109.08	109.17	111.52	111.85	110.74	118.38	119.39	113.03	110.12	109.23	109.30	
4	109.10	109.09	109.17	111.48	111.74	110.84	118.82	119.30	112.72	110.22	109.21	109.30	
5	109.10	109.13	109.26	111.48	111.56	110.89	119.04	119.11	112.50	110.07	109.25	109.33	
6	109.11	109.14	109.83	111.52	111.36	110.84	119.13	118.87	112.38	109.97	109.22	109.29	
7	109.12	109.14	109.66	111.51	111.15	110.90	119.27	118.62	112.27	109.89	109.24	109.23	
8	109.11	109.12	109.54	111.47	110.95	110.94	119.49	118.35	112.10	109.83	109.22	109.20	
9	109.10	109.09	109.51	111.49	110.78	111.00	119.71	118.08	111.96	109.78	109.21	109.20	
10	109.11	109.10	109.45	111.58	110.64	111.42	119.78	117.83	111.82	109.70	109.21	109.17	
11	109.11	109.08	109.54	111.62	110.53	112.11	119.76	117.50	111.68	109.65	109.22	109.18	
12	109.10	109.08	109.73	111.63	110.40	112.73	119.69	117.22	111.58	109.62	109.26	109.20	
13	109.10	109.10	109.60	111.61	110.28	113.08	119.60	116.94	111.45	109.60	109.28	109.16	
14	109.09	109.09	109.50	111.55	110.17	113.25	119.53	116.68	111.32	109.59	109.26	109.18	
15	109.08	109.13	109.51	111.48	110.06	113.40	119.45	116.43	111.22	109.57	109.24	109.20	
16	109.09	109.25	109.53	111.39	109.99	113.66	119.32	116.19	111.08	109.56	109.18	109.19	
17	109.09	109.39	109.64	111.28	109.93	114.03	119.18	115.98	110.98	109.57	109.21	109.20	
18	109.10	109.32	109.57	111.19	109.88	114.51	119.03	115.76	110.88	109.51	109.19	109.17	
19	109.11	109.46	109.93	111.10	109.91	114.89	118.87	115.55	110.76	109.48	109.19	109.16	
20	109.11	109.88	109.84	111.09	109.94	115.23	118.72	115.36	110.67	109.53	109.19	109.08	
21	109.11	109.64	109.80	111.16	109.91	115.53	118.61	115.16	110.61	109.50	109.21	109.06	
22	109.11	109.57	109.94	111.26	109.87	115.79	118.51	114.95	110.54	109.45	109.21	109.06	
23	109.10	109.47	110.00	111.33	109.87	115.99	118.44	114.77	110.52	109.41	109.21	109.08	
24	109.09	109.43	110.19	111.44	109.85	116.15	118.39	114.69	110.42	109.38	109.21	109.15	
25	109.09	109.39	110.40	111.53	109.85	116.37	118.38	114.69	110.25	109.36	109.23	109.16	
26	109.08	109.30	110.70	111.58	109.91	116.56	118.38	114.70	110.24	109.32	109.23	109.15	
27	109.07	109.28	111.06	111.61	109.91	116.73	118.42	114.62	110.16	109.31	109.22	109.16	
28	109.07	109.24	111.36	111.65	109.96	116.90	118.51	114.47	110.09	109.32	109.21	109.17	
29	109.07	109.23	111.52	111.78	110.22	117.16	118.66	114.25	110.08	109.33		109.16	
30	109.07	109.22	111.56	111.87	110.33	117.31	118.83	113.94	110.07	109.29		109.18	
31		109.18		111.90	110.54		119.01		110.03	109.28		109.17	
MEAN	109.10	109.25	109.89	111.49	110.49	113.67	118.91	116.60	111.30	109.62	109.23	109.18	
MAX	109.12	109.88	111.56	111.90	111.92	117.31	119.78	119.39	113.62	110.22	109.30	109.33	119.78
MIN	109.07	109.07	109.15	111.09	109.85	110.57	117.44	113.94	110.03	109.28	109.18	109.06	109.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 119.79 M (MSL), AT 24.00 HOURS, ON OCT 10, 1980
ZERO GAGE AT BOTTOM ELEVATION 109.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 122.84 M (MSL)
RIGHT BANK ELEVATION 124.67 M (MSL), DRAINAGE AREA 3026 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.10	0.19	11.48	14.39	4.85	81.20	178.95	36.68	2.07	0.30	0.23	
2	0.17	0.10	0.19	11.24	14.48	5.10	95.30	186.00	32.34	2.07	0.29	0.27	
3	0.17	0.12	0.20	11.16	13.85	5.74	116.10	187.50	28.42	2.60	0.25	0.30	
4	0.15	0.14	0.20	10.84	12.92	6.34	139.20	183.00	24.08	3.10	0.23	0.30	
5	0.15	0.17	0.27	10.84	11.48	6.64	152.40	174.45	21.00	2.38	0.26	0.36	
6	0.16	0.18	1.53	11.16	9.92	6.34	158.10	164.45	19.36	2.00	0.24	0.29	
7	0.17	0.18	1.02	11.08	8.45	6.70	167.90	155.70	18.04	1.73	0.26	0.25	
8	0.16	0.17	0.78	10.76	7.05	6.98	185.20	146.25	16.20	1.53	0.24	0.23	
9	0.15	0.14	0.72	10.92	5.98	7.40	202.90	137.40	14.84	1.37	0.23	0.23	
10	0.16	0.15	0.60	11.64	5.20	10.36	213.00	129.90	13.58	1.10	0.23	0.20	
11	0.16	0.12	0.78	11.96	4.65	16.30	211.50	120.50	12.44	1.00	0.24	0.21	
12	0.15	0.12	1.20	12.04	4.00	24.22	206.30	113.50	11.64	0.94	0.27	0.23	
13	0.15	0.15	0.90	11.88	3.40	26.40	200.00	106.50	10.60	0.90	0.29	0.19	
14	0.14	0.14	0.70	11.40	2.85	27.25	195.10	100.00	9.64	0.88	0.27	0.21	
15	0.12	0.17	0.72	10.84	2.34	28.00	190.50	93.75	8.94	0.84	0.26	0.23	
16	0.14	0.26	0.76	10.13	2.07	29.30	184.00	87.75	7.96	0.82	0.21	0.22	
17	0.14	0.48	0.98	9.36	1.87	31.51	177.60	82.50	7.26	0.84	0.23	0.23	
18	0.15	0.34	0.84	8.73	1.70	35.19	170.85	77.32	6.58	0.72	0.22	0.20	
19	0.16	0.62	1.87	8.10	1.80	38.90	164.45	72.70	5.86	0.66	0.22	0.19	
20	0.16	1.70	1.57	8.03	1.90	42.30	159.20	68.80	5.35	0.76	0.22	0.12	
21	0.16	0.98	1.43	8.52	1.80	45.30	155.35	64.80	5.05	0.70	0.23	0.09	
22	0.16	0.84	1.90	9.22	1.67	47.90	151.85	60.60	4.70	0.60	0.23	0.09	
23	0.15	0.64	2.10	9.71	1.67	50.47	149.40	57.00	4.60	0.52	0.23	0.12	
24	0.14	0.56	2.95	10.52	1.60	52.67	147.65	55.40	4.10	0.46	0.23	0.19	
25	0.14	0.48	4.00	11.24	1.60	56.68	147.30	55.40	3.25	0.42	0.25	0.19	
26	0.12	0.30	5.50	11.64	1.80	60.20	147.30	55.60	3.20	0.34	0.25	0.19	
27	0.10	0.29	7.82	11.88	1.80	63.60	148.70	54.00	2.80	0.32	0.24	0.19	
28	0.10	0.26	9.92	12.20	1.97	67.50	151.85	51.00	2.46	0.34	0.23	0.20	
29	0.10	0.25	11.16	13.24	3.10	74.00	157.10	46.60	2.42	0.36		0.19	
30	0.10	0.24	11.48	14.03	3.65	77.75	163.05	41.16	2.38	0.29		0.21	
31		0.21		14.30	4.70		169.95		2.22	0.29		0.20	
TOTAL	4.33	10.60	74.28	340.09	155.66	962.09	5060.29	3108.48	347.99	32.95	6.85	6.55	10110.15 CMSDAY
MEAN	0.14	0.34	2.48	10.97	5.02	32.07	163.24	103.62	11.23	1.06	0.24	0.21	27.70 CMS
MAX	0.17	1.70	11.48	14.30	14.48	77.75	213.00	187.50	36.68	3.10	0.30	0.36	213.00 CMS
MIN	0.10	0.10	0.19	8.03	1.60	4.85	81.20	41.16	2.22	0.29	0.21	0.09	0.09 CMS
RUNOFF	0.374	0.916	6.418	29.384	13.449	83.125	437.209	268.572	30.066	2.847	0.592	0.566	873.517 MCM

MOMENTARY PEAK 213.75 CMS, AT 119.79 M (MSL), AT 24.00 HOURS, ON OCT 10, 1980

RUNOFF YIELD 9.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 70.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

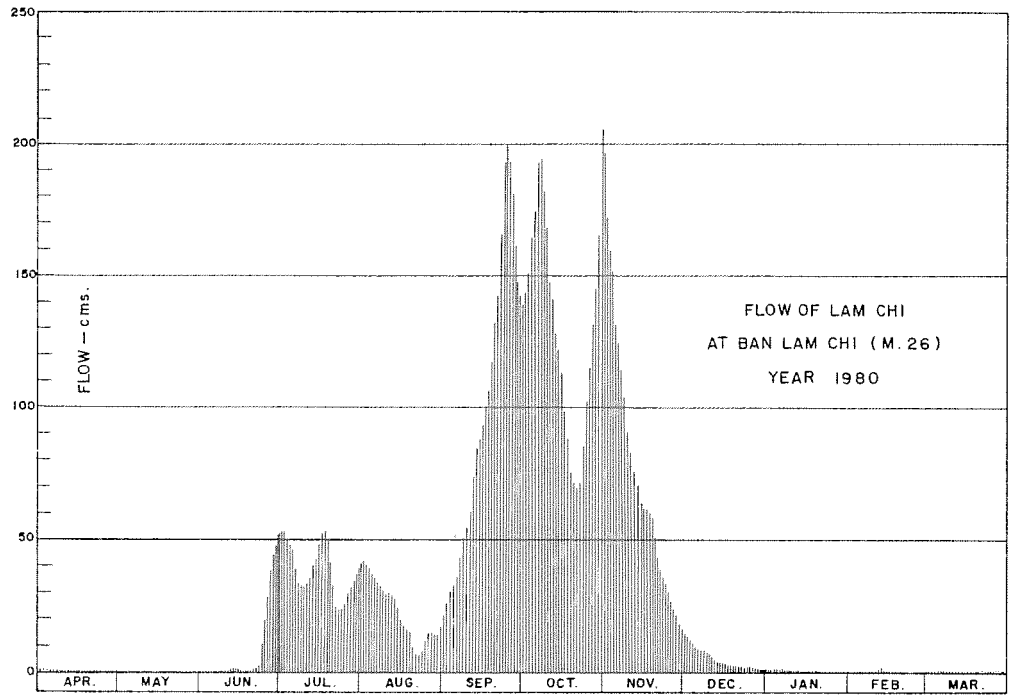
LAM CHI AT BAN LAM CHI, SURIN (M.26)

LOCATION	LAT. 14°-54'-03" N., LONG. 103°-24'-21" E., ON LEFT BANK AT RAILWAY BRIDGE, BAN LAM CHI, AMPHOE MUANG, SURIN.
DRAINAGE AREA	2,927 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+127.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+135.010 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1968, 1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1968, 1978 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 232 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	127.47	127.44	127.55	132.14	131.54	130.22	135.65	136.28	129.76	128.01	127.64	127.70	
2	127.46	127.45	127.58	132.19	131.57	130.58	135.78	136.12	129.68	127.92	127.59	127.57	
3	127.45	127.50	127.55	132.15	131.48	130.83	135.88	135.93	129.57	127.95	127.63	127.52	
4	127.45	127.54	127.56	132.04	131.38	130.95	135.97	135.75	129.44	127.95	127.65	127.54	
5	127.45	127.47	127.58	131.91	131.31	131.00	136.02	135.54	129.29	127.93	127.66	127.76	
6	127.44	127.47	127.67	131.62	131.22	131.15	136.14	135.28	129.17	127.91	127.62	127.69	
7	127.55	127.46	127.71	131.35	131.11	131.50	136.24	134.94	129.10	127.91	127.73	127.66	
8	127.47	127.47	127.65	131.16	131.00	131.90	136.26	134.57	129.12	127.83	127.59	127.64	
9	127.44	127.48	127.63	131.04	130.91	132.11	136.18	134.18	129.09	127.69	127.53	127.67	
10	127.43	127.46	127.67	130.98	130.86	132.26	136.01	133.80	128.98	127.76	127.55	127.58	
11	127.43	127.46	127.69	131.03	130.85	132.55	135.84	133.50	128.86	127.71	127.59	127.63	
12	127.52	127.47	127.84	131.13	130.82	132.96	135.69	133.24	128.77	127.74	127.77	127.68	
13	127.49	127.55	127.92	131.28	130.74	133.37	135.52	133.08	128.71	127.73	127.95	127.63	
14	127.46	127.60	128.04	131.51	130.60	133.62	135.30	132.93	128.63	127.72	127.69	127.51	
15	127.46	127.60	128.03	131.71	130.40	133.81	135.01	132.71	128.58	127.72	127.63	127.49	
16	127.56	127.56	127.90	131.94	130.15	134.02	134.62	132.59	128.52	127.74	127.69	127.58	
17	127.48	127.57	127.81	132.12	129.92	134.26	134.19	132.58	128.51	127.69	127.67	127.54	
18	127.45	127.54	127.76	132.20	129.84	134.59	133.76	132.56	128.50	127.77	127.79	127.57	
19	127.49	127.50	127.68	132.11	129.69	134.96	133.40	132.34	128.42	127.70	127.74	127.61	
20	127.49	127.52	127.66	131.82	129.43	135.35	133.14	132.02	128.36	127.71	127.68	127.55	
21	127.56	127.50	127.90	131.30	129.12	135.65	132.99	131.70	128.31	127.74	127.64	127.59	
22	127.54	127.52	128.02	130.73	128.90	135.87	132.98	131.40	128.25	127.71	127.59	127.52	
23	127.50	127.51	128.01	130.42	128.87	136.03	133.36	131.23	128.29	127.67	127.58	127.50	
24	127.47	127.54	128.28	130.41	129.09	136.24	133.83	131.09	128.32	127.60	127.56	127.52	
25	127.48	127.59	129.66	130.52	129.45	136.29	134.30	130.88	128.27	127.63	127.56	127.51	
26	127.47	127.54	130.47	130.67	129.69	136.25	134.80	130.67	128.24	127.66	127.63	127.47	
27	127.44	127.66	131.07	130.83	129.78	136.16	135.37	130.44	128.18	127.62	127.62	127.49	
28	127.44	127.65	131.47	131.01	129.76	136.05	135.71	130.22	128.03	127.65	127.68	127.49	
29	127.44	127.63	131.78	131.14	129.70	135.90	135.96	130.05	128.00	127.65		127.48	
30	127.44	127.59	131.99	131.26	129.66	135.75	136.21	129.89	128.00	127.61		127.50	
31		127.56		131.41	129.85		136.33		128.08	127.57		127.47	
MEAN	127.47	127.53	128.44	131.39	130.28	133.74	135.11	132.92	128.68	127.75	127.65	127.57	
MAX	127.56	127.66	131.99	132.20	131.57	136.29	136.33	136.28	129.76	128.01	127.95	127.76	136.33
MIN	127.43	127.44	127.55	130.41	128.87	130.22	132.98	129.89	128.00	127.57	127.53	127.47	127.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 136.34 M (MSL), AT 22.00 HOURS, ON OCT 31, 1980
ZERO GAGE AT BOTTOM ELEVATION 127.00 M (MSL), RIVER BED 127.06 M (MSL)
LEFT BANK ELEVATION 140.00 M (MSL)
RIGHT BANK ELEVATION 139.99 M (MSL), DRAINAGE AREA 2927 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.22	0.27	52.80	41.88	21.36	138.00	197.50	15.52	1.54	0.42	0.60	
2	0.23	0.23	0.29	53.80	42.39	26.20	144.90	175.10	14.56	1.26	0.30	0.29	
3	0.23	0.25	0.27	53.00	40.86	29.95	150.80	155.00	13.24	1.35	0.39	0.26	
4	0.23	0.27	0.28	50.80	39.16	31.85	159.00	143.25	11.68	1.35	0.45	0.27	
5	0.23	0.23	0.29	48.20	37.97	32.70	164.10	133.10	10.10	1.29	0.48	0.78	
6	0.22	0.23	0.51	43.24	36.44	35.25	177.70	123.90	8.90	1.23	0.36	0.57	
7	0.27	0.23	0.63	38.65	34.57	41.20	191.50	114.58	8.20	1.23	0.69	0.48	
8	0.23	0.23	0.45	35.42	32.70	46.00	194.50	105.68	8.40	0.99	0.30	0.42	
9	0.22	0.24	0.39	33.38	31.17	52.20	182.90	96.56	8.10	0.57	0.27	0.51	
10	0.22	0.23	0.51	32.36	30.40	55.20	163.05	88.20	7.02	0.78	0.27	0.29	
11	0.22	0.23	0.57	33.21	30.25	61.00	148.40	81.60	5.98	0.63	0.30	0.39	
12	0.26	0.23	1.02	34.91	29.80	69.72	140.00	75.88	5.26	0.72	0.81	0.54	
13	0.24	0.27	1.26	37.46	28.60	78.74	132.30	72.36	4.78	0.69	1.35	0.39	
14	0.23	0.30	1.66	41.37	26.50	84.24	124.50	69.06	4.28	0.66	0.57	0.26	
15	0.23	0.30	1.62	44.77	23.70	88.42	116.29	64.22	4.00	0.66	0.39	0.24	
16	0.28	0.28	1.20	48.80	20.45	93.04	106.88	61.80	3.70	0.72	0.57	0.29	
17	0.24	0.29	0.93	52.40	17.46	98.38	96.78	61.60	3.65	0.57	0.51	0.27	
18	0.23	0.27	0.78	54.00	16.48	106.16	87.32	61.20	3.60	0.81	0.87	0.29	
19	0.24	0.25	0.54	52.20	14.68	115.07	79.40	56.80	3.20	0.60	0.72	0.33	
20	0.24	0.26	0.48	46.64	11.56	126.25	73.68	50.40	2.94	0.63	0.54	0.27	
21	0.28	0.25	1.20	37.80	8.40	138.00	70.38	44.60	2.74	0.72	0.42	0.30	
22	0.27	0.26	1.58	28.45	6.30	150.20	70.16	39.50	2.50	0.63	0.30	0.26	
23	0.25	0.26	1.54	23.96	6.06	165.15	78.52	36.61	2.66	0.51	0.29	0.25	
24	0.23	0.27	2.62	23.83	8.10	191.50	88.86	34.23	2.78	0.30	0.28	0.26	
25	0.24	0.30	14.32	25.30	11.80	199.00	99.30	30.70	2.58	0.39	0.28	0.26	
26	0.23	0.27	24.61	27.55	14.68	193.00	111.20	27.55	2.46	0.48	0.39	0.23	
27	0.22	0.48	33.89	29.95	15.76	180.30	126.95	24.22	2.22	0.36	0.36	0.24	
28	0.22	0.45	40.69	32.87	15.52	167.25	141.05	21.36	1.62	0.45	0.54	0.24	
29	0.22	0.39	45.96	35.08	14.80	152.00	158.00	19.15	1.50	0.45		0.24	
30	0.22	0.30	49.80	37.12	14.32	143.25	187.00	17.08	1.50	0.33		0.25	
31		0.28		39.67	16.60		205.45		1.82	0.29		0.23	
TOTAL	7.10	8.55	230.16	1228.99	719.36	2974.58	4108.87	2282.79	171.49	23.19	13.42	10.50	11778.98 CMSDAY
MEAN	0.24	0.28	7.67	39.64	23.21	99.15	132.54	76.09	5.53	0.75	0.48	0.34	32.27 CMS
MAX	0.28	0.48	49.80	54.00	42.39	199.00	205.45	197.50	15.52	1.54	1.35	0.78	205.45 CMS
MIN	0.22	0.22	0.27	23.83	6.06	21.36	70.16	17.08	1.50	0.29	0.27	0.23	0.22 CMS
RUNOFF	0.613	0.739	19.886	106.185	62.153	257.004	355.006	197.233	14.817	2.004	1.159	0.907	1017.704 MCM

MOMENTARY PEAK 207.10 CMS, AT 136.34 M (MSL), AT 22.00 HOURS, ON OCT 31, 1980

RUNOFF YIELD 11.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 70.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

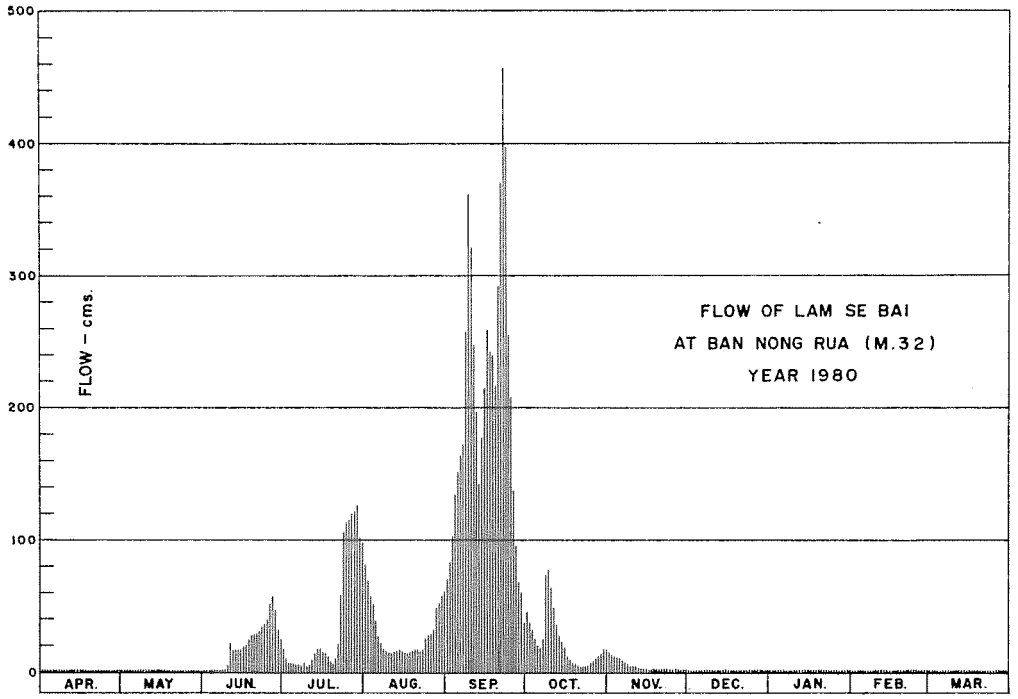
LAM SE BAI AT BAN NONG BUA, YASOTHON (M.32)

LOCATION	LAT. 15°-50'-20" N., LONG. 104°-27'-35" E., ON RIGHT BANK ABOUT 25 METERS UPSTREAM FROM PHAWAPHUTANON BRIDGE, TAMBON PHO SAI, AMPHOE KHAM KHUAN KAEO, YASOTHON.
DRAINAGE AREA	1,654 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+119.90 M. (M.S.L.)
BENCH MARK	B.M.-ARMY SURVEY DEPARTMENT
LOCATION	NEAR THE HIGHWAY DEPARTMENT'S HOUSE.
ELEVATION	+128.833 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954-1962, 1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1973
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE DURING 1969-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	119.92	119.90	119.94	122.65	124.29	124.12	123.72	122.48	120.44	120.33	120.30	120.25	
2	119.92	119.90	119.94	122.05	124.15	124.32	123.53	122.31	120.41	120.34	120.30	120.26	
3	119.92	119.90	119.94	121.57	123.96	124.54	123.45	122.21	120.38	120.34	120.30	120.26	
4	119.92	119.90	119.94	121.43	123.85	124.84	123.23	122.11	120.38	120.34	120.29	120.20	
5	119.92	119.90	119.94	121.45	123.56	125.01	122.95	121.98	120.38	120.34	120.29	*******	
6	119.92	119.90	119.95	121.30	123.17	125.11	122.75	121.84	120.38	120.33	120.29	*******	
7	119.90	119.90	119.95	121.33	122.91	125.19	123.21	121.67	120.38	120.33	120.29	*******	
8	119.90	119.90	119.96	121.13	122.65	125.68	124.21	121.45	120.38	120.33	120.28	*******	
9	119.90	119.90	119.97	121.40	122.52	126.26	124.25	121.14	120.38	120.33	120.28	*******	
10	119.90	119.90	119.99	120.99	122.35	126.13	124.08	121.06	120.37	120.33	120.28	*******	
11	119.90	119.90	123.00	121.27	122.39	125.72	123.89	121.00	120.35	120.33	120.28	*******	
12	119.90	119.90	122.55	121.80	122.46	125.34	123.66	120.93	120.34	120.33	120.27	*******	
13	119.90	119.90	122.58	122.38	122.57	124.92	123.39	120.85	120.35	120.33	120.27	*******	
14	119.90	119.90	122.59	122.68	122.68	125.22	123.17	120.81	120.33	120.32	120.27	*******	
15	119.90	119.91	122.62	122.69	122.56	125.50	122.90	120.75	120.30	120.32	120.27	*******	
16	119.90	119.91	122.81	122.52	122.37	125.78	122.44	120.71	120.31	120.32	120.27	*******	
17	119.90	119.91	122.99	122.30	122.35	125.69	122.09	120.68	120.32	120.31	120.27	*******	
18	119.90	119.91	123.17	122.02	122.50	125.67	121.89	120.69	120.34	120.31	120.27	*******	
19	119.90	119.91	123.30	121.74	122.61	125.52	121.58	120.66	120.33	120.31	120.27	*******	
20	119.90	119.91	123.32	121.47	122.62	125.77	121.34	120.65	120.33	120.31	120.27	*******	
21	119.90	119.91	123.34	121.94	122.57	126.23	121.15	120.63	120.33	120.31	120.27	119.53	
22	119.90	119.93	123.41	122.90	122.45	126.58	121.08	120.61	120.30	120.31	120.26	119.53	
23	119.90	119.93	123.49	123.97	122.70	126.39	121.06	120.59	120.30	120.31	120.26	119.50	
24	119.90	119.93	123.54	124.56	123.13	125.77	121.33	120.56	120.32	120.31	120.26	119.50	
25	119.90	119.93	123.63	124.64	123.30	125.46	121.63	120.54	120.30	120.31	120.26	119.47	
26	119.90	119.94	123.87	124.66	123.34	124.88	121.87	120.54	120.31	120.31	120.26	119.46	
27	119.90	119.94	123.94	124.70	123.44	124.29	122.03	120.54	120.32	120.31	120.26	119.44	
28	119.90	119.94	123.83	124.72	123.79	124.12	122.21	120.54	120.34	120.31	120.26	119.42	
29	119.90	119.94	123.55	124.77	123.86	124.01	122.41	120.54	120.32	120.30		119.41	
30	119.90	119.94	123.12	124.67	123.92	123.59	122.55	120.53	120.31	120.30		119.40	
31		119.94		124.50	124.02		122.58		120.33	120.30		119.39	
MEAN	119.90	119.91	122.14	122.65	123.07	125.25	122.63	121.05	120.34	120.32	120.27	*******	
MAX	119.92	119.94	123.94	124.77	124.29	126.58	124.25	122.48	120.44	120.34	120.30	120.26	126.58
MIN	119.90	119.90	119.94	120.99	122.35	123.59	121.08	120.53	120.30	120.30	120.26	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 126.66 M (MSL), AT 18.00 HOURS, ON SEP 22, 1980
ZERO GAGE AT BOTTOM ELEVATION 119.90 M (MSL), RIVER BED 117.28 M (MSL)
LEFT BANK ELEVATION 130.18 M (MSL)
RIGHT BANK ELEVATION 130.16 M (MSL), DRAINAGE AREA 1654 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	17.25	81.20	68.40	45.00	15.40	1.76	1.32	1.20	1.00	
2	0.00	0.00	0.00	11.35	70.50	83.80	36.20	13.70	1.64	1.36	1.20	1.04	
3	0.00	0.00	0.00	7.39	57.60	104.00	33.25	12.79	1.52	1.36	1.20	1.04	
4	0.00	0.00	0.00	6.48	51.50	134.00	26.45	11.89	1.52	1.36	1.16	0.80	
5	0.00	0.00	0.00	6.60	37.40	152.20	21.00	10.72	1.52	1.36	1.16	*******	
6	0.00	0.00	0.00	5.70	25.10	164.20	18.40	9.46	1.52	1.32	1.16	*******	
7	0.00	0.00	0.00	5.88	20.44	173.80	25.95	8.09	1.52	1.32	1.16	*******	
8	0.00	0.00	0.00	4.68	17.25	241.80	74.80	6.60	1.52	1.32	1.12	*******	
9	0.00	0.00	0.00	6.30	15.82	361.60	78.00	4.74	1.52	1.32	1.12	*******	
10	0.00	0.00	0.00	3.96	14.10	329.20	65.60	4.30	1.48	1.32	1.12	*******	
11	0.00	0.00	21.70	5.52	14.50	248.60	53.50	4.00	1.40	1.32	1.12	*******	
12	0.00	0.00	16.15	9.10	15.20	192.20	42.00	3.72	1.36	1.32	1.08	*******	
13	0.00	0.00	16.48	14.40	16.37	142.20	31.17	3.40	1.40	1.32	1.08	*******	
14	0.00	0.00	16.59	17.58	17.58	177.40	25.10	3.24	1.32	1.28	1.08	*******	
15	0.00	0.00	16.92	17.69	16.26	214.00	20.30	3.00	1.20	1.28	1.08	*******	
16	0.00	0.00	19.13	15.82	14.30	259.40	15.00	2.84	1.24	1.28	1.08	*******	
17	0.00	0.00	21.56	13.60	14.10	243.40	11.71	2.72	1.28	1.24	1.08	*******	
18	0.00	0.00	25.10	11.08	15.60	240.20	9.91	2.76	1.36	1.24	1.08	*******	
19	0.00	0.00	28.20	8.62	16.81	217.00	7.46	2.64	1.32	1.24	1.08	*******	
20	0.00	0.00	28.86	6.72	16.92	257.60	5.94	2.60	1.32	1.24	1.08	*******	
21	0.00	0.00	29.52	10.36	16.37	353.80	4.80	2.52	1.32	1.24	1.08	0.00	
22	0.00	0.00	31.85	20.30	15.10	456.00	4.40	2.44	1.20	1.24	1.04	0.00	
23	0.00	0.00	34.65	58.20	17.80	397.20	4.40	2.36	1.20	1.24	1.04	0.00	
24	0.00	0.00	36.60	106.00	24.30	257.60	5.88	2.24	1.28	1.24	1.04	0.00	
25	0.00	0.00	40.50	114.00	28.20	208.40	7.81	2.16	1.20	1.24	1.04	0.00	
26	0.00	0.00	52.50	116.00	29.52	138.00	9.73	2.16	1.24	1.24	1.04	0.00	
27	0.00	0.00	56.40	120.00	32.90	81.20	11.17	2.16	1.28	1.24	1.04	0.00	
28	0.00	0.00	50.50	122.00	48.50	68.40	12.79	2.16	1.36	1.24	1.04	0.00	
29	0.00	0.00	37.00	127.00	52.00	60.70	14.70	2.16	1.28	1.20		0.00	
30	0.00	0.00	24.10	117.00	55.20	38.60	16.15	2.12	1.24	1.20		0.00	
31		0.00		100.00	61.40		16.48		1.32	1.20		0.00	
TOTAL	0.00	0.00	604.31	1206.58	929.84	6064.89	755.05	151.09	42.64	39.64	30.80	*******	******** CMSDAY
MEAN	0.00	0.00	20.14	38.92	29.99	202.16	24.36	5.04	1.38	1.28	1.10	*******	******* CMS
MAX	0.00	0.00	56.40	127.00	81.20	456.00	78.00	15.40	1.76	1.36	1.20	1.04	456.00 CMS
MIN	0.00	0.00	0.00	3.96	14.10	38.60	4.40	2.12	1.20	1.20	1.04	*******	******* CMS
RUNOFF	0.000	0.000	52.212	104.248	80.338	524.007	65.236	13.054	3.684	3.425	2.661	*******	******** MCM

MOMENTARY PEAK 480.20 CMS, AT 126.66 M (MSL), AT 18.00 HOURS, ON SEP 22, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 290.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

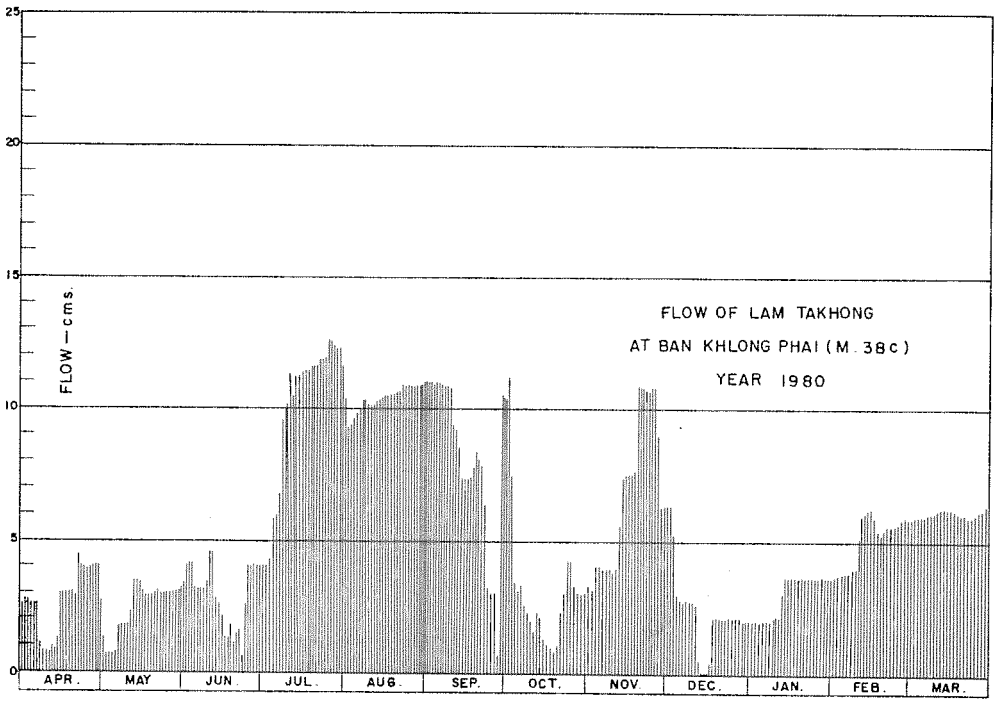
LAM TAKHONG AT BAN KHLONG PHAI, NAKHON RATCHASIMA (M.38C)

LOCATION	LAT. 14°-52'-06" N., LONG. 101°-33'-53" E., ON LEFT BANK ABOUT 500 METERS DOWNSTREAM FROM LAM TAKHONG DAM, TAMBON KHLONG PHAI, AMPHOE SIKHIU, NAKHON RATCHASIMA.
DRAINAGE AREA	1,292 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+242.00 M. (M.S.L.)
BENCH MARK	B.M.=H.D.
LOCATION	ON LEFT BANK ALONG THE MEASURING LINE.
ELEVATION	+251.841 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1962 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1962-1965, 1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1962-1965, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY LAM TAKHONG RESERVOIR DIVERTED FOR IRRIGATION OF ABOUT 62,080 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	244.51	244.47	244.59	244.71	245.36	245.45	245.39	244.59	244.98	244.41	244.65	244.93	
2	244.54	244.19	244.71	244.71	245.29	245.45	245.46	244.55	244.98	244.42	244.66	244.93	
3	244.51	244.19	244.72	244.72	245.30	245.44	244.94	244.63	244.82	244.42	244.66	244.94	
4	244.51	244.19	244.72	244.75	245.31	245.45	244.70	244.71	244.60	244.41	244.67	244.94	
5	244.51	244.19	244.60	244.92	245.33	245.45	244.55	244.71	244.53	244.41	244.67	244.94	
6	244.51	244.19	244.57	244.93	245.35	245.44	244.60	244.69	244.52	244.42	244.67	244.94	
7	244.39	244.37	244.59	245.03	245.35	245.44	244.61	244.69	244.52	244.42	244.68	244.94	
8	244.21	244.39	244.58	245.31	245.39	245.44	244.47	244.69	244.52	244.42	244.69	244.95	
9	244.20	244.39	244.58	245.35	245.39	245.43	244.47	244.69	244.52	244.42	244.69	244.95	
10	244.20	244.39	244.62	245.36	245.37	245.43	244.43	244.68	244.52	244.43	244.69	244.95	
11	244.19	244.39	244.78	245.48	245.37	245.30	244.36	244.68	244.51	244.43	244.82	244.96	
12	244.23	244.45	244.77	245.39	245.38	245.29	244.29	244.68	244.23	244.43	244.95	244.97	
13	244.20	244.63	244.58	245.47	245.39	245.20	244.45	244.92	244.01	244.53	244.95	244.97	
14	244.29	244.63	244.50	245.47	245.39	245.09	244.42	245.09	244.01	244.65	244.96	244.97	
15	244.56	244.63	244.51	245.47	245.40	245.10	244.32	245.11	244.00	244.65	244.96	244.97	
16	244.57	244.60	244.36	245.49	245.41	245.10	244.28	245.11	243.99	244.65	244.97	244.97	
17	244.57	244.56	244.30	245.49	245.41	245.09	244.25	245.11	244.26	244.65	244.91	244.97	
18	244.57	244.55	244.30	245.49	245.41	245.11	244.22	245.11	244.43	244.65	244.87	244.96	
19	244.57	244.55	244.39	245.51	245.41	245.14	244.20	245.26	244.43	244.65	244.87	244.96	
20	244.57	244.55	244.27	245.51	245.42	245.19	244.20	245.43	244.43	244.65	244.87	244.95	
21	244.54	244.56	244.32	245.51	245.42	245.15	244.42	245.43	244.43	244.65	244.90	244.95	
22	244.76	244.58	244.35	245.53	245.43	245.13	244.52	245.43	244.43	244.65	244.90	244.94	
23	244.71	244.56	244.19	245.53	245.44	244.86	244.56	245.42	244.43	244.65	244.90	244.94	
24	244.70	244.56	244.17	245.53	245.44	244.56	244.55	245.42	244.43	244.65	244.90	244.94	
25	244.70	244.56	244.71	245.55	245.44	244.57	244.73	245.43	244.43	244.65	244.90	244.94	
26	244.70	244.56	244.71	245.60	245.44	244.57	244.71	245.43	244.43	244.65	244.92	244.96	
27	244.70	244.57	244.71	245.59	245.44	244.56	244.59	245.27	244.43	244.65	244.93	244.96	
28	244.71	244.57	244.71	245.57	245.44	244.17	244.56	245.09	244.43	244.65	244.93	244.96	
29	244.71	244.57	244.71	245.57	245.44	244.93	244.55	244.98	244.42	244.65		244.96	
30	244.71	244.57	244.71	245.57	245.44	245.37	244.54	244.98	244.42	244.65		244.99	
31		244.59		245.50	245.45		244.60		244.42	244.65		244.97	
MEAN	244.51	244.48	244.54	245.34	245.39	245.13	244.55	245.00	244.44	244.56	244.83	244.95	
MAX	244.76	244.63	244.78	245.60	245.45	245.45	245.46	245.43	244.98	244.65	244.97	244.99	245.60
MIN	244.19	244.19	244.17	244.71	245.29	244.17	244.20	244.55	243.99	244.41	244.65	244.93	243.99

ANNUAL MAX MOMENTARY GAGE HEIGHT 246.02 M (MSL), AT 19.00 HOURS, ON OCT 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 242.00 M (MSL), RIVER BED 243.71 M (MSL)
LEFT BANK ELEVATION 251.85 M (MSL)
RIGHT BANK ELEVATION 252.81 M (MSL), DRAINAGE AREA 1292 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.67	2.39	3.23	4.08	10.04	11.01	10.37	3.23	6.32	1.97	3.65	5.87	
2	2.88	0.76	4.08	4.08	9.30	11.01	11.12	2.95	6.32	2.04	3.72	5.87	
3	2.67	0.76	4.16	4.16	9.40	10.90	5.96	3.51	4.96	2.04	3.72	5.96	
4	2.67	0.76	4.16	4.40	9.51	11.01	4.00	4.08	3.30	1.97	3.79	5.96	
5	2.67	0.76	3.30	5.78	9.72	11.01	2.95	4.08	2.81	1.97	3.79	5.96	
6	2.67	0.76	3.09	5.87	9.94	10.90	3.30	3.93	2.74	2.04	3.79	5.96	
7	1.84	1.72	3.23	6.77	9.94	10.90	3.37	3.93	2.74	2.04	3.86	5.96	
8	0.85	1.84	3.16	9.51	10.37	10.90	2.39	3.93	2.74	2.04	3.93	6.05	
9	0.80	1.84	3.16	9.94	10.37	10.80	2.39	3.93	2.74	2.04	3.93	6.05	
10	0.80	1.84	3.44	10.04	10.15	10.80	2.11	3.86	2.74	2.11	3.93	6.05	
11	0.76	1.84	4.64	11.33	10.15	9.40	1.66	3.86	2.67	2.11	4.96	6.14	
12	0.95	2.25	4.56	10.37	10.26	9.30	1.25	3.86	0.95	2.11	6.05	6.23	
13	0.80	3.51	3.16	11.23	10.37	8.40	2.25	5.78	0.04	2.81	6.05	6.23	
14	1.25	3.51	2.60	11.23	10.37	7.31	2.04	7.31	0.04	3.65	6.14	6.23	
15	3.02	3.51	2.67	11.23	10.48	7.40	1.42	7.50	0.00	3.65	6.14	6.23	
16	3.09	3.30	1.66	11.44	10.58	7.40	1.20	7.50	0.00	3.65	6.23	6.23	
17	3.09	3.02	1.30	11.44	10.58	7.31	1.05	7.50	1.10	3.65	5.69	6.23	
18	3.09	2.95	1.30	11.44	10.58	7.50	0.90	7.50	2.11	3.65	5.36	6.14	
19	3.09	2.95	1.84	11.66	10.58	7.80	0.80	9.00	2.11	3.65	5.36	6.14	
20	3.09	2.95	1.15	11.66	10.69	8.30	0.80	10.80	2.11	3.65	5.36	6.05	
21	2.98	3.02	1.42	11.66	10.69	7.90	2.04	10.80	2.11	3.65	5.60	6.05	
22	4.48	3.16	1.60	11.87	10.80	7.70	2.74	10.80	2.11	3.65	5.60	5.96	
23	4.08	3.02	0.76	11.87	10.90	5.28	3.02	10.69	2.11	3.65	5.60	5.96	
24	4.00	3.02	0.68	11.87	10.90	3.02	2.95	10.69	2.11	3.65	5.60	5.96	
25	4.00	3.02	4.08	12.09	10.90	3.09	4.24	10.80	2.11	3.65	5.60	5.96	
26	4.30	3.02	4.08	12.62	10.90	3.09	4.08	10.80	2.11	3.65	5.78	6.14	
27	4.00	3.09	4.08	12.52	10.90	3.02	3.23	9.10	2.11	3.65	5.87	6.14	
28	4.08	3.09	4.08	12.30	10.90	0.68	3.02	7.31	2.11	3.65	5.87	6.14	
29	4.08	3.09	4.08	12.30	10.90	6.32	2.95	6.32	2.04	3.65		6.14	
30	4.08	3.09	4.08	12.30	10.90	10.15	2.88	6.32	2.04	3.65		6.41	
31		3.23		11.55	11.01		3.30		2.04	3.65		6.23	
TOTAL	82.43	77.07	88.83	310.61	323.08	239.61	95.78	201.67	71.54	92.99	140.97	188.63	1913.21 CMSDAY
MEAN	2.75	2.49	2.96	10.02	10.42	7.99	3.09	6.72	2.31	3.00	5.03	6.08	5.24 CMS
MAX	4.48	3.51	4.64	12.62	11.01	11.01	11.12	10.80	6.32	3.65	6.23	6.41	12.62 CMS
MIN	0.76	0.76	0.68	4.08	9.30	0.68	0.80	2.95	0.00	1.97	3.65	5.87	0.00 CMS
RUNOFF	7.122	6.659	7.675	26.837	27.914	20.702	8.275	17.424	6.181	8.034	12.180	16.298	165.301 MCM

MOMENTARY PEAK 17.54 CMS, AT 246.02 M (MSL), AT 19.00 HOURS, ON OCT 1, 1980

RUNOFF YIELD 4.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

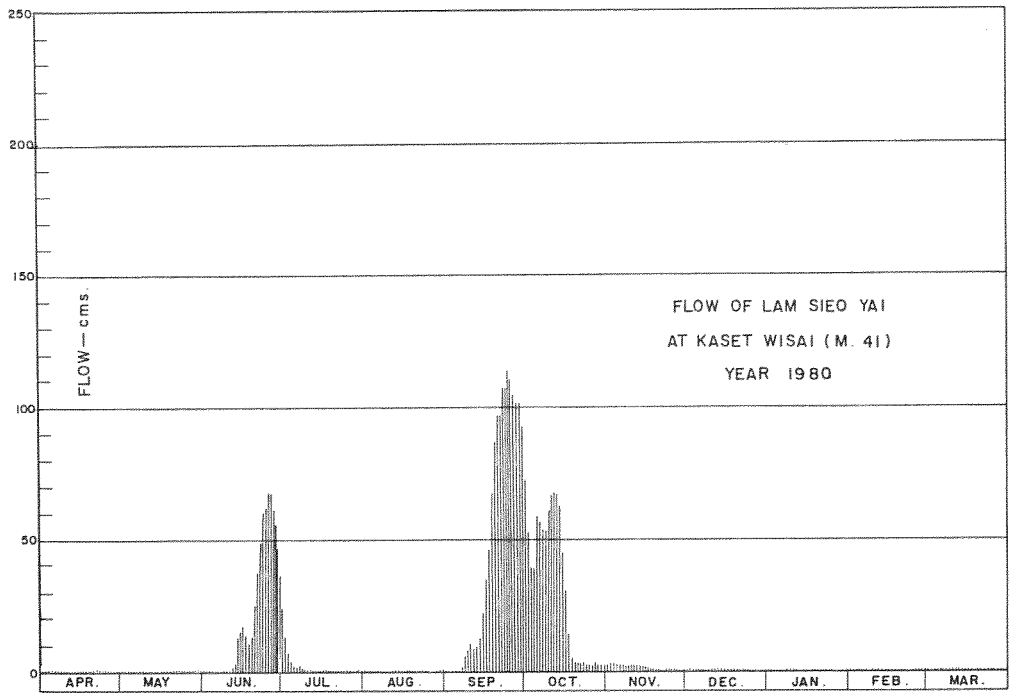
LAM SIEO YAI AT KASET WISAI, ROI ET (M.41)

LOCATION	LAT. 15°-38'-46" N., LONG. 103°-33'-55" E., ON LEFT BANK AT TAMBON KASET WISAI, AMPHOE KASET WISAI, ROI ET.
DRAINAGE AREA	1,310 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+125.30 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	AT THE FOOT OF THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+128.419 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1974
STABILITY OF CHANNEL REGIMES	UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +127.55 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE DURING 1971-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	125.96	125.80	126.04	127.85	127.10	126.84	128.10	127.33	126.44	126.20	126.15	126.12	
2	125.95	125.80	126.06	127.68	127.05	126.87	128.03	127.34	126.42	126.20	126.09	126.08	
3	125.94	125.80	126.08	127.57	127.00	126.82	127.97	127.35	126.41	126.21	126.09	126.06	
4	125.94	125.82	126.10	127.44	126.96	126.85	127.97	127.33	126.40	126.21	126.10	126.07	
5	125.94	125.82	126.15	127.32	126.89	126.84	128.03	127.32	126.39	126.20	126.10	126.07	
6	125.93	125.82	126.22	127.26	126.78	127.00	128.05	127.31	126.38	126.20	126.10	126.06	
7	125.93	125.82	126.27	127.29	126.73	127.17	128.04	127.29	126.37	126.20	126.09	126.05	
8	125.93	125.81	126.32	127.30	126.66	127.40	128.03	127.29	126.36	126.20	126.06	126.06	
9	125.93	125.81	126.35	127.26	126.60	127.54	128.03	127.29	126.34	126.20	126.07	126.06	
10	125.93	125.80	126.42	127.14	126.54	127.65	128.05	127.30	126.31	126.21	126.07	126.07	
11	125.92	125.79	126.52	127.11	126.50	127.61	128.07	127.30	126.30	126.22	126.07	126.08	
12	125.92	125.79	126.91	127.10	126.49	127.58	128.08	127.29	126.30	126.22	126.07	126.08	
13	125.92	125.78	127.29	127.06	126.47	127.62	128.08	127.25	126.29	126.22	126.08	126.08	
14	125.91	125.78	127.67	127.01	126.45	127.67	128.06	127.23	126.28	126.22	126.08	126.08	
15	125.89	125.77	127.71	126.96	126.45	127.80	128.01	127.22	126.27	126.22	126.07	126.08	
16	125.88	125.76	127.77	126.91	126.45	127.91	127.98	127.22	126.27	126.22	126.03	126.08	
17	125.88	125.82	127.72	126.85	126.46	127.95	127.75	127.16	126.26	126.23	126.03	126.07	
18	125.87	125.82	127.62	126.83	126.46	128.03	127.54	127.10	126.26	126.22	126.04	126.07	
19	125.86	125.82	127.68	126.83	126.46	128.09	127.39	127.04	126.26	126.15	126.04	126.06	
20	125.86	125.83	127.82	126.82	126.47	128.12	127.38	127.00	126.26	126.15	126.05	126.05	
21	125.86	125.83	127.93	126.81	126.46	128.14	127.38	126.96	126.25	126.15	126.06	126.04	
22	125.86	125.88	127.98	126.80	126.45	128.14	127.37	126.90	126.23	126.15	126.06	126.03	
23	125.86	125.89	128.01	126.78	126.43	128.16	127.37	126.78	126.23	126.15	126.06	126.02	
24	125.85	125.90	128.05	126.84	126.43	128.16	127.33	126.63	126.23	126.16	126.07	126.01	
25	125.84	125.89	128.06	126.90	126.46	128.17	127.31	126.57	126.23	126.16	126.10	126.01	
26	125.82	125.89	128.08	126.95	126.49	128.16	127.34	126.52	126.22	126.17	126.10	126.00	
27	125.82	125.90	128.08	126.99	126.56	128.15	127.35	126.51	126.22	126.17	126.11	125.99	
28	125.82	125.92	128.06	127.01	126.63	128.15	127.33	126.49	126.22	126.17	126.12	125.99	
29	125.82	125.93	128.03	127.06	126.75	128.15	127.30	126.48	126.22	126.18		125.98	
30	125.82	125.95	127.98	127.09	126.84	128.14	127.30	126.46	126.22	126.18		125.97	
31		126.02		127.11	126.80		127.31		126.22	126.18		125.97	
MEAN	125.89	125.84	127.23	127.09	126.62	127.70	127.72	127.04	126.29	126.19	126.08	126.05	
MAX	125.96	126.02	128.08	127.85	127.10	128.17	128.10	127.35	126.44	126.23	126.15	126.12	128.17
MIN	125.82	125.76	126.04	126.78	126.43	126.82	127.30	126.46	126.22	126.15	126.03	125.97	125.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 128.17 M (MSL), AT 7.00 HOURS, ON SEP 25, 1980
ZERO GAGE AT BOTTOM ELEVATION 125.30 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 1310 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	23.90	0.50	0.00	74.00	2.81	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	12.76	0.35	0.00	53.34	2.98	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	8.47	0.20	0.00	39.67	3.15	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	4.92	0.12	0.00	39.67	2.81	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.64	0.00	0.00	53.34	2.64	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.86	0.00	0.20	59.25	2.47	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	2.19	0.00	0.99	56.30	2.19	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	2.30	0.00	4.00	53.34	2.19	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	1.86	0.00	7.54	53.34	2.19	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.78	0.00	11.50	59.25	2.30	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.57	0.00	9.82	65.15	2.30	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.02	0.50	0.00	8.78	68.10	2.19	0.00	0.00	0.00	0.00	
13	0.00	0.00	2.19	0.38	0.00	10.24	68.10	1.75	0.00	0.00	0.00	0.00	
14	0.00	0.00	12.34	0.23	0.00	12.34	62.19	1.53	0.00	0.00	0.00	0.00	
15	0.00	0.00	14.18	0.12	0.00	19.40	47.44	1.42	0.00	0.00	0.00	0.00	
16	0.00	0.00	17.66	0.02	0.00	30.01	41.28	1.42	0.00	0.00	0.00	0.00	
17	0.00	0.00	14.76	0.00	0.00	36.45	16.50	0.92	0.00	0.00	0.00	0.00	
18	0.00	0.00	10.24	0.00	0.00	53.34	7.54	0.50	0.00	0.00	0.00	0.00	
19	0.00	0.00	12.76	0.00	0.00	71.05	3.83	0.32	0.00	0.00	0.00	0.00	
20	0.00	0.00	21.20	0.00	0.00	85.19	3.66	0.20	0.00	0.00	0.00	0.00	
21	0.00	0.00	33.23	0.00	0.00	96.40	3.66	0.12	0.00	0.00	0.00	0.00	
22	0.00	0.00	41.28	0.00	0.00	96.40	3.49	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	47.44	0.00	0.00	107.60	3.49	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	59.25	0.00	0.00	107.60	2.81	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	62.19	0.00	0.00	113.20	2.47	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	68.10	0.10	0.00	107.60	2.98	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	68.10	0.18	0.00	101.99	3.15	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	62.19	0.23	0.00	101.99	2.81	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	53.34	0.38	0.00	101.99	2.30	0.00	0.00	0.00		0.00	
30	0.00	0.00	41.28	0.47	0.00	96.40	2.30	0.00	0.00	0.00		0.00	
31		0.00		0.57	0.00		2.47		0.00	0.00		0.00	
TOTAL	0.00	0.00	641.75	65.43	1.17	1392.02	957.22	38.40	0.00	0.00	0.00	0.00	3095.99 CMSDAY
MEAN	0.00	0.00	21.39	2.11	0.04	46.40	30.88	1.28	0.00	0.00	0.00	0.00	8.48 CMS
MAX	0.00	0.00	68.10	23.90	0.50	113.20	74.00	3.15	0.00	0.00	0.00	0.00	113.20 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	55.447	5.653	0.101	120.270	82.704	3.318	0.000	0.000	0.000	0.000	267.493 MCM

MOMENTARY PEAK 113.20 CMS, AT 128.17 M (MSL), AT 7.00 HOURS, ON SEP 25, 1980

RUNOFF YIELD 6.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 86.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI THAP THAN AT BAN HUAI THAP THAN, SI SA KET (M.42)

LOCATION — LAT. 15°-02'-42" N., LONG. 104°-01'-29" E., ON LEFT BANK AT THE ABUTMENT OF HUAI THAP THAN BRIDGE, AMPHOE UTHUMPHON PHISAI, SI SA KET.

DRAINAGE AREA — 1,794 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK UNDER TAMARIND TREE INFRONT OF THE JOSS HOUSE, ABOUT 120 METERS FROM THE GAGE SITE.

ELEVATION — +9.820 M. (A.D.)

GAGE READING FREQUENCY — 3-5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3-5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1972 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 49 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.23-MAY 18,1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

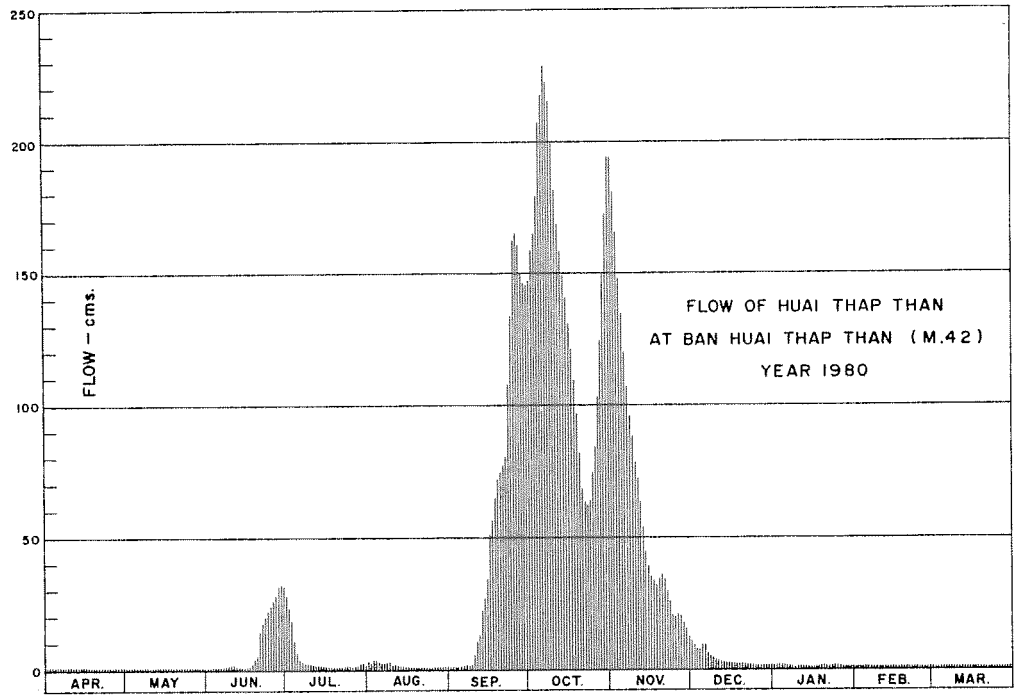
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.50	0.72	4.18	1.44	0.71	8.75	9.29	2.53	0.94	0.67	0.58	
2	0.62	0.50	0.73	3.63	0.95	0.77	8.92	9.17	2.34	0.94	0.69	0.61	
3	0.65	0.50	0.72	3.05	1.50	0.77	8.98	8.97	2.16	0.94	0.67	0.62	
4	0.65	0.50	0.74	2.38	1.50	0.78	9.16	8.78	2.14	0.92	0.65	0.54	
5	0.65	0.50	0.75	1.80	1.22	0.78	9.42	8.55	2.32	0.91	0.62	0.54	
6	0.67	0.50	0.76	1.55	1.19	0.86	9.55	8.28	2.33	0.88	0.64	0.54	
7	0.67	0.50	0.81	1.25	1.11	0.99	9.64	8.02	1.90	0.87	0.65	0.59	
8	0.81	0.50	0.85	1.16	1.21	0.96	9.61	7.69	1.79	0.86	0.68	0.66	
9	0.79	0.50	0.86	1.15	1.18	0.95	9.50	7.39	1.69	0.83	0.69	0.62	
10	0.72	0.50	0.96	1.14	1.06	1.54	9.34	7.04	1.53	0.81	0.67	0.61	
11	0.71	0.50	0.90	1.09	0.99	2.33	9.14	6.66	1.46	0.82	0.66	0.61	
12	0.67	0.50	0.83	1.04	0.93	2.85	9.00	6.25	1.40	0.95	0.68	0.58	
13	0.68	0.50	0.79	0.99	0.88	3.46	8.87	5.74	1.32	0.86	0.66	0.59	
14	0.67	0.50	0.79	0.92	0.84	3.89	8.72	5.22	1.29	0.82	0.64	0.61	
15	0.64	0.50	0.76	0.86	0.81	4.33	8.58	4.85	1.24	0.77	0.64	0.60	
16	0.59	0.50	0.75	0.83	0.81	5.14	8.42	4.61	1.21	0.75	0.63	0.56	
17	0.56	0.50	0.76	0.84	0.79	5.80	8.19	4.46	1.17	0.77	0.64	0.56	
18	0.53	0.50	0.98	0.82	0.77	6.32	7.90	4.38	1.14	0.99	0.61	0.57	
19	0.54	0.79	1.57	0.77	0.75	6.67	7.46	4.48	1.12	1.04	0.59	0.55	
20	0.60	0.74	1.82	0.79	0.73	6.83	7.02	4.63	1.09	1.04	0.60	0.57	
21	0.60	0.71	2.75	0.83	0.73	6.90	6.53	4.51	1.07	0.94	0.61	0.59	
22	0.60	0.72	3.20	0.84	0.70	7.06	6.21	4.12	1.06	0.82	0.60	0.59	
23	0.50	0.76	3.36	0.93	0.69	7.73	6.16	3.77	1.05	0.93	0.63	0.62	
24	0.50	0.78	3.57	0.94	0.69	8.49	6.24	3.50	1.02	0.98	0.60	0.61	
25	0.50	0.80	3.81	0.98	0.71	8.93	6.72	3.41	1.02	0.89	0.66	0.60	
26	0.50	0.78	3.90	0.98	0.75	8.98	7.23	3.47	1.02	0.89	0.64	0.59	
27	0.50	0.77	4.11	0.96	0.78	8.91	7.83	3.43	1.01	0.78	0.61	0.58	
28	0.50	0.76	4.28	1.04	0.75	8.79	8.59	3.21	0.99	0.75	0.61	0.59	
29	0.50	0.73	4.33	1.09	0.74	8.71	8.88	2.95	0.98	0.71		0.58	
30	0.50	0.69	4.31	1.12	0.71	8.70	9.15	2.74	0.96	0.70		0.57	
31		0.70		0.94	0.69		9.30		0.96	0.68		0.60	
MEAN	0.61	0.60	1.85	1.32	0.92	4.66	8.36	5.65	1.43	0.86	0.64	0.59	
MAX	0.81	0.80	4.33	4.18	1.50	8.98	9.64	9.29	2.53	1.04	0.69	0.66	9.64
MIN	0.50	0.50	0.72	0.77	0.69	0.71	6.16	2.74	0.96	0.68	0.59	0.54	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT — 9.64 M (A.D), AT 18.00 HOURS, ON OCT 7, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.50 M (A.D)

LEFT BANK ELEVATION — 11.33 M (A.D)

RIGHT BANK ELEVATION — 11.30 M (A.D), DRAINAGE AREA — 1794 SQUARE KILOMETERS



DISCHARGE IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.00	0.48	29.72	3.36	0.44	148.75	193.00	11.10	1.36	0.28	0.00	
2	0.08	0.00	0.52	22.36	1.40	0.68	160.60	181.30	9.32	1.36	0.36	0.04	
3	0.20	0.00	0.48	16.30	3.60	0.68	165.40	164.60	7.92	1.36	0.28	0.08	
4	0.20	0.00	0.56	9.64	3.60	0.72	180.40	150.70	7.78	1.28	0.20	0.00	
5	0.20	0.00	0.60	5.40	2.48	0.72	206.00	136.75	9.16	1.24	0.08	0.00	
6	0.28	0.00	0.64	3.80	2.36	1.04	219.00	122.00	9.24	1.12	0.16	0.00	
7	0.28	0.00	0.84	2.60	2.04	1.56	228.00	109.80	6.10	1.08	0.20	0.00	
8	0.84	0.00	1.00	2.24	2.44	1.44	225.00	97.65	5.33	1.04	0.32	0.24	
9	0.76	0.00	1.04	2.20	2.32	1.40	214.00	88.25	4.63	0.92	0.36	0.08	
10	0.48	0.00	1.44	2.16	1.84	3.76	198.00	79.80	3.72	0.84	0.28	0.04	
11	0.44	0.00	1.20	1.96	1.56	9.24	178.60	72.20	3.44	0.88	0.24	0.04	
12	0.28	0.00	0.92	1.76	1.32	14.30	167.00	64.00	3.20	1.40	0.32	0.00	
13	0.32	0.00	0.76	1.56	1.12	20.40	156.90	54.23	2.88	1.04	0.24	0.00	
14	0.28	0.00	0.76	1.28	0.96	25.66	146.80	45.12	2.76	0.88	0.16	0.04	
15	0.16	0.00	0.64	1.04	0.84	31.82	138.40	39.20	2.56	0.68	0.16	0.00	
16	0.00	0.00	0.60	0.92	0.84	43.84	129.60	35.74	2.44	0.60	0.12	0.00	
17	0.00	0.00	0.64	0.96	0.76	55.33	117.50	33.64	2.28	0.68	0.16	0.00	
18	0.00	0.00	1.52	0.88	0.68	65.40	105.00	32.52	2.16	1.56	0.04	0.00	
19	0.00	0.76	3.88	0.68	0.60	72.40	90.30	33.92	2.08	1.76	0.00	0.00	
20	0.00	0.56	5.54	0.76	0.52	75.60	79.40	36.02	1.96	1.76	0.00	0.00	
21	0.00	0.44	13.30	0.92	0.52	77.00	69.60	34.34	1.88	1.36	0.04	0.00	
22	0.00	0.48	17.80	0.96	0.40	80.20	63.20	28.88	1.84	0.88	0.00	0.00	
23	0.00	0.64	19.40	1.32	0.36	99.05	62.20	24.04	1.80	1.32	0.12	0.08	
24	0.00	0.72	21.64	1.36	0.36	133.45	63.80	20.80	1.68	1.52	0.00	0.04	
25	0.00	0.80	24.54	1.52	0.44	161.40	73.40	19.90	1.68	1.16	0.24	0.00	
26	0.00	0.72	25.80	1.52	0.60	165.40	84.25	20.50	1.68	1.16	0.16	0.00	
27	0.00	0.68	28.74	1.44	0.72	159.80	102.55	20.10	1.64	0.72	0.04	0.00	
28	0.00	0.64	31.12	1.76	0.60	151.35	138.95	17.90	1.56	0.60	0.04	0.00	
29	0.00	0.52	31.82	1.96	0.56	146.15	157.60	15.30	1.52	0.44		0.00	
30	0.00	0.36	31.54	2.08	0.44	145.50	179.50	13.20	1.44	0.40		0.00	
31		0.40		1.36	0.36		194.00		1.44	0.32		0.00	
TOTAL	4.88	7.72	269.76	124.42	40.00	1745.73	4443.70	1985.40	118.22	32.72	4.60	0.68	8777.82 CMSDAY
MEAN	0.16	0.25	8.99	4.01	1.29	58.19	143.35	66.18	3.81	1.06	0.16	0.02	24.05 CMS
MAX	0.84	0.80	31.82	29.72	3.60	165.40	228.00	193.00	11.10	1.76	0.36	0.24	228.00 CMS
MIN	0.00	0.00	0.48	0.68	0.36	0.44	62.20	13.20	1.44	0.32	0.00	0.00	0.00 CMS
RUNOFF	0.422	0.667	23.307	10.750	3.456	150.831	383.935	171.538	10.214	2.827	0.397	0.059	758.403 MCM

MOMENTARY PEAK 228.00 CMS, AT 9.64 M (A.D), AT 18.00 HOURS, ON OCT 7, 1980

RUNOFF YIELD 13.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 127.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

LAM TAKHONG AT BAN MU SI, NAKHON RATCHASIMA (M.43)

LOCATION — LAT. 14°-31'-40" N., LONG. 101°-24'-09" E., ON LEFT BANK INFRONT OF HIGHWAY MAINTENANCE OFFICE, BAN MU SI, AMPHOE PAK CHONG, NAKHON RATCHASIMA.

DRAINAGE AREA — 235 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +5.592 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965, 1967-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965, 1967-1973

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

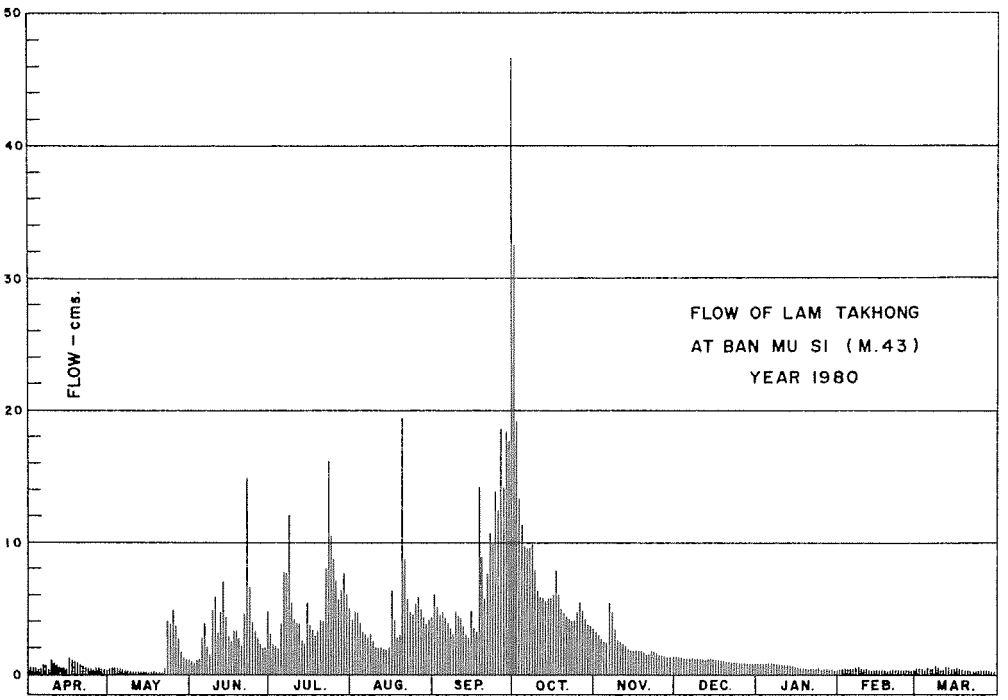
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 178 DISCHARGE MEASUREMENTS MADE DURING 1969-1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.46	0.59	0.86	0.95	1.07	1.95	0.87	0.68	0.57	0.46	0.51	
2	0.50	0.47	0.57	0.80	0.99	1.02	1.53	0.85	0.67	0.57	0.47	0.50	
3	0.48	0.47	0.62	0.78	0.98	0.97	1.36	0.81	0.66	0.57	0.47	0.49	
4	0.48	0.47	0.64	0.76	0.93	0.99	1.31	0.81	0.65	0.56	0.47	0.48	
5	0.46	0.47	0.86	0.94	0.89	0.96	1.21	0.81	0.65	0.56	0.47	0.50	
6	0.55	0.46	0.92	1.16	0.87	0.92	1.20	0.98	0.65	0.56	0.49	0.48	
7	0.55	0.45	0.78	1.16	0.84	0.90	1.20	1.02	0.65	0.55	0.52	0.49	
8	0.63	0.41	0.70	1.37	0.87	0.88	1.22	0.92	0.64	0.55	0.51	0.50	
9	0.60	0.38	1.00	1.04	0.82	0.98	1.18	0.82	0.63	0.55	0.49	0.48	
10	0.57	0.38	1.05	0.94	0.78	0.96	1.09	0.82	0.63	0.54	0.48	0.46	
11	0.53	0.37	0.86	0.92	0.77	0.95	1.05	0.79	0.63	0.54	0.47	0.49	
12	0.49	0.36	0.97	0.92	0.77	0.91	1.05	0.77	0.63	0.54	0.46	0.53	
13	0.47	0.34	1.12	0.82	0.76	0.86	1.03	0.76	0.63	0.53	0.44	0.50	
14	0.47	0.30	0.92	0.80	0.74	0.84	1.05	0.74	0.64	0.51	0.46	0.49	
15	0.46	0.27	0.84	1.02	0.79	0.99	1.05	0.75	0.63	0.51	0.45	0.47	
16	0.64	0.25	0.81	0.91	1.08	0.91	1.06	0.75	0.62	0.49	0.45	0.47	
17	0.60	0.25	0.88	0.89	0.93	0.87	1.11	0.75	0.62	0.49	0.45	0.46	
18	0.58	0.25	0.87	0.84	0.84	1.46	1.05	0.74	0.61	0.49	0.45	0.46	
19	0.57	0.21	0.84	0.90	0.87	1.16	1.00	0.73	0.60	0.48	0.43	0.45	
20	0.54	0.19	0.80	0.93	1.65	1.05	0.97	0.72	0.60	0.49	0.44	0.44	
21	0.52	0.22	0.99	0.94	1.22	1.21	0.95	0.72	0.60	0.48	0.44	0.43	
22	0.50	0.44	1.49	1.16	1.05	1.31	0.94	0.73	0.59	0.48	0.44	0.43	
23	0.49	0.94	1.10	1.54	0.98	1.27	0.93	0.73	0.58	0.49	0.45	0.43	
24	0.48	0.92	0.95	1.30	0.96	1.45	0.94	0.71	0.57	0.49	0.44	0.43	
25	0.46	0.99	0.91	1.22	1.04	1.39	1.00	0.71	0.57	0.48	0.43	0.43	
26	0.47	0.90	0.85	1.10	1.05	1.69	1.03	0.70	0.57	0.48	0.42	0.42	
27	0.47	0.84	0.81	1.04	1.00	1.46	0.97	0.69	0.57	0.49	0.43	0.41	
28	0.47	0.72	0.78	1.11	0.95	1.68	0.93	0.68	0.57	0.48	0.42	0.40	
29	0.46	0.67	0.79	1.15	0.92	1.66	0.91	0.68	0.57	0.47		0.41	
30	0.46	0.64	0.99	1.09	0.94	2.34	0.90	0.68	0.57	0.46		0.39	
31		0.63		1.01	0.97		0.88		0.57	0.46		0.41	
MEAN	0.51	0.49	0.88	1.01	0.94	1.17	1.10	0.77	0.61	0.51	0.46	0.46	
MAX	0.64	0.99	1.49	1.54	1.65	2.34	1.95	1.02	0.68	0.57	0.52	0.53	2.34
MIN	0.46	0.19	0.57	0.76	0.74	0.84	0.88	0.68	0.57	0.46	0.42	0.39	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.14 M (A.D), AT 22.00 HOURS, ON SEP 30, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.28 M (A.D)
LEFT BANK ELEVATION 5.32 M (A.D)
RIGHT BANK ELEVATION 7.96 M (A.D), DRAINAGE AREA 235 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.38	0.95	3.08	4.30	6.19	29.90	3.21	1.40	0.85	0.38	0.55	
2	0.50	0.41	0.85	2.30	4.86	5.34	15.98	2.95	1.35	0.85	0.41	0.50	
3	0.44	0.41	1.10	2.14	4.72	4.58	11.82	2.43	1.30	0.85	0.41	0.47	
4	0.44	0.41	1.20	1.98	4.02	4.86	10.72	2.43	1.25	0.80	0.41	0.44	
5	0.38	0.41	3.08	4.16	3.47	4.44	8.70	2.43	1.25	0.80	0.41	0.50	
6	0.75	0.38	3.88	7.78	3.21	3.88	8.50	4.72	1.25	0.80	0.47	0.44	
7	0.75	0.35	2.14	7.78	2.82	3.60	8.50	5.34	1.25	0.75	0.60	0.47	
8	1.15	0.23	1.50	12.04	3.21	3.34	8.90	3.88	1.20	0.75	0.55	0.50	
9	1.00	0.18	5.00	5.68	2.56	4.72	8.14	2.56	1.15	0.75	0.47	0.44	
10	0.85	0.18	5.85	4.16	2.14	4.44	6.53	2.56	1.15	0.70	0.44	0.38	
11	0.65	0.17	3.08	3.88	2.06	4.30	5.85	2.22	1.15	0.70	0.41	0.47	
12	0.47	0.16	4.58	3.88	2.06	3.74	5.85	2.06	1.15	0.70	0.38	0.65	
13	0.41	0.14	7.06	2.56	1.98	3.08	5.51	1.98	1.15	0.65	0.32	0.50	
14	0.41	0.10	3.88	2.30	1.82	2.82	5.85	1.82	1.20	0.55	0.38	0.47	
15	0.38	0.07	2.82	5.34	2.22	4.86	5.85	1.90	1.15	0.55	0.35	0.41	
16	1.20	0.05	2.43	3.74	6.36	3.74	6.02	1.90	1.10	0.47	0.35	0.41	
17	1.00	0.05	3.34	3.47	4.02	3.21	6.88	1.90	1.10	0.47	0.35	0.38	
18	0.90	0.05	3.21	2.82	2.82	14.20	5.85	1.82	1.05	0.47	0.35	0.38	
19	0.85	0.01	2.82	3.60	3.21	7.78	5.00	1.74	1.00	0.44	0.29	0.35	
20	0.70	0.00	2.30	4.02	19.40	5.85	4.58	1.66	1.00	0.47	0.32	0.32	
21	0.60	0.02	4.86	4.16	8.90	8.70	4.30	1.66	1.00	0.44	0.32	0.29	
22	0.50	0.32	14.95	7.78	5.85	10.72	4.16	1.74	0.95	0.44	0.32	0.29	
23	0.47	4.16	6.70	16.24	4.72	9.90	4.02	1.74	0.90	0.47	0.35	0.29	
24	0.44	3.88	4.30	10.50	4.44	13.95	4.16	1.58	0.85	0.47	0.32	0.29	
25	0.38	4.86	3.74	8.90	5.68	12.49	5.00	1.58	0.85	0.44	0.29	0.29	
26	0.41	3.60	2.95	6.70	5.85	20.68	5.51	1.50	0.85	0.44	0.26	0.26	
27	0.41	2.82	2.43	5.68	5.00	14.20	4.58	1.45	0.85	0.47	0.29	0.23	
28	0.41	1.66	2.14	6.88	4.30	20.36	4.02	1.40	0.85	0.44	0.26	0.20	
29	0.38	1.35	2.22	7.60	3.88	19.72	3.74	1.40	0.85	0.41		0.23	
30	0.38	1.20	4.86	6.53	4.16	46.58	3.60	1.40	0.85	0.38		0.19	
31		1.15		5.17	4.58		3.34		0.85	0.38		0.23	
TOTAL	18.11	29.16	110.22	172.85	138.62	276.26	221.36	66.96	33.25	18.15	10.46	11.82	1107.22 CMSDAY
MEAN	0.60	0.94	3.67	5.58	4.47	9.21	7.14	2.23	1.07	0.59	0.37	0.38	3.03 CMS
MAX	1.20	4.86	14.95	16.24	19.40	46.58	29.90	5.34	1.40	0.85	0.60	0.65	46.58 CMS
MIN	0.38	0.00	0.85	1.98	1.82	2.82	3.34	1.40	0.85	0.38	0.26	0.19	0.00 CMS
RUNOFF	1.565	2.519	9.523	14.934	11.977	23.869	19.125	5.785	2.873	1.568	0.904	1.021	95.664 MCM

MOMENTARY PEAK 87.60 CMS, AT 3.14 M (A.D), AT 22.00 HOURS, ON SEP 30, 1980

RUNOFF YIELD 12.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 372.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

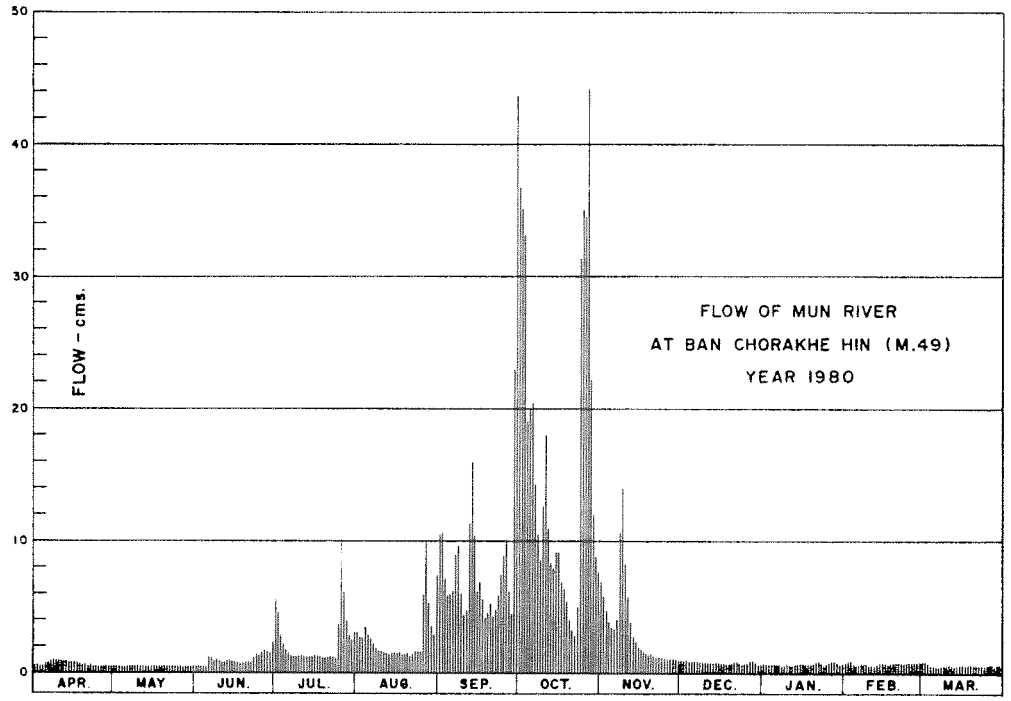
MUN RIVER AT BAN CHORAKHE HIN, NAKHON RATCHASIMA (M.49)

LOCATION	LAT. 14°-32'-12" N., LONG. 102°-10'-07" E., ON RIGHT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM PROPOSED DAMSITE, AMPHOE KHON BURI, NAKHON RATCHASIMA.
DRAINAGE AREA	474 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+197.211 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE METEOROLOGICAL STATION.
ELEVATION	+205.267 M. (M.S.L.)
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	1965-1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1973
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 807 DISCHARGE MEASUREMENTS MADE DURING 1970-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.06	199.01	199.01	200.61	200.36	200.94	201.73	200.73	199.54	199.22	199.39	199.47	
2	199.07	199.01	199.00	200.52	200.31	200.95	201.70	200.64	199.52	199.24	199.46	199.46	
3	199.04	199.01	199.00	200.32	200.30	200.74	201.66	200.54	199.50	199.24	199.45	199.37	
4	199.06	199.01	199.01	200.16	200.41	200.63	201.30	200.45	199.48	199.26	199.25	199.19	
5	199.24	199.01	199.02	200.05	200.33	200.64	201.33	200.40	199.46	199.26	199.14	199.07	
6	199.39	199.00	199.71	199.93	200.30	200.66	201.34	200.39	199.44	199.22	199.18	199.06	
7	199.44	199.00	199.66	199.89	200.21	200.84	201.11	200.55	199.43	199.21	199.26	199.05	
8	199.48	199.02	199.46	199.86	200.13	200.90	200.95	200.94	199.40	199.19	199.24	199.09	
9	199.49	199.02	199.50	199.79	200.08	200.67	200.83	201.11	199.39	199.18	199.24	199.11	
10	199.46	199.03	199.41	199.76	200.05	200.50	201.05	200.82	199.38	199.20	199.09	199.13	
11	199.45	199.03	199.32	199.81	199.99	200.52	201.27	200.62	199.36	199.18	199.11	199.23	
12	199.41	199.02	199.36	199.77	199.96	201.02	200.96	200.47	199.36	199.17	199.17	199.11	
13	199.40	199.02	199.44	199.73	199.92	201.19	200.82	200.33	199.35	199.23	199.26	199.07	
14	199.39	199.02	199.44	199.71	199.97	200.93	200.80	200.26	199.34	199.23	199.31	199.15	
15	199.36	199.01	199.37	199.79	199.98	200.65	200.87	200.19	199.33	199.20	199.36	199.25	
16	199.36	199.02	199.34	199.81	199.97	200.72	200.87	200.13	199.31	199.32	199.37	199.22	
17	199.36	199.03	199.28	199.74	199.98	200.64	200.73	200.04	199.30	199.21	199.29	199.10	
18	199.27	199.02	199.26	199.73	199.91	200.48	200.68	199.96	199.29	199.27	199.30	199.19	
19	199.15	199.01	199.30	199.69	199.94	200.49	200.63	199.94	199.28	199.22	199.33	199.10	
20	199.11	199.01	199.31	199.70	199.98	200.58	200.48	199.95	199.27	199.38	199.36	199.07	
21	199.02	199.02	199.33	199.70	199.89	200.49	200.39	199.91	199.26	199.43	199.39	199.13	
22	199.02	199.02	199.32	199.68	199.96	200.42	200.32	199.85	199.26	199.44	199.38	199.17	
23	199.01	199.02	199.79	199.72	200.06	200.55	200.56	199.79	199.25	199.36	199.39	199.18	
24	199.01	199.01	199.90	199.70	200.05	200.67	201.62	199.75	199.24	199.17	199.40	199.18	
25	199.01	199.01	199.86	200.43	200.04	200.53	201.70	199.72	199.24	199.26	199.40	199.10	
26	199.00	199.01	200.00	200.91	200.64	200.92	201.69	199.69	199.24	199.39	199.43	199.11	
27	199.01	199.00	200.07	200.68	200.91	200.71	201.86	199.65	199.24	199.46	199.43	199.14	
28	199.01	199.01	200.03	200.45	200.57	200.51	201.39	199.63	199.23	199.46	199.46	199.05	
29	199.01	199.01	199.99	200.32	200.41	201.41	201.02	199.61	199.23	199.36		199.07	
30	199.01	199.01	200.26	200.28	200.32	201.85	200.85	199.57	199.23	199.12		199.11	
31		199.00		200.36	200.78		200.78		199.22	199.24		199.11	
MEAN	199.20	199.01	199.49	200.02	200.18	200.76	201.07	200.19	199.33	199.27	199.32	199.16	
MAX	199.49	199.03	200.26	200.91	200.91	201.85	201.86	201.11	199.54	199.46	199.46	199.47	201.86
MIN	199.00	199.00	199.00	199.68	199.89	200.42	200.32	199.57	199.22	199.12	199.09	199.05	199.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 201.97 M (MSL), AT 9.00 HOURS, ON OCT 27, 1980
ZERO GAGE AT BOTTOM ELEVATION 197.21 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 202.84 M (MSL)
RIGHT BANK ELEVATION 202.21 M (MSL), DRAINAGE AREA 474 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.56	0.56	5.62	3.18	10.50	36.71	7.09	1.04	0.72	0.89	0.97	
2	0.60	0.56	0.55	4.62	2.78	10.70	35.00	5.98	1.02	0.74	0.96	0.96	
3	0.58	0.56	0.55	2.86	2.70	7.22	33.20	4.84	1.00	0.74	0.95	0.87	
4	0.59	0.56	0.56	2.04	3.59	5.86	19.00	3.95	0.98	0.76	0.75	0.69	
5	0.74	0.56	0.56	1.70	2.94	5.98	20.05	3.50	0.96	0.76	0.65	0.60	
6	0.89	0.55	1.21	1.46	2.70	6.22	20.40	3.42	0.94	0.72	0.68	0.59	
7	0.94	0.55	1.16	1.39	2.25	8.68	14.04	4.95	0.93	0.71	0.76	0.58	
8	0.98	0.56	0.96	1.36	1.92	9.70	10.70	10.50	0.90	0.69	0.74	0.61	
9	0.99	0.56	1.00	1.29	1.76	6.34	8.51	14.04	0.89	0.68	0.74	0.63	
10	0.96	0.57	0.91	1.26	1.70	4.40	12.75	8.34	0.88	0.70	0.61	0.64	
11	0.95	0.57	0.82	1.31	1.58	4.62	18.16	5.74	0.86	0.68	0.63	0.73	
12	0.91	0.56	0.86	1.27	1.52	12.12	10.90	4.13	0.86	0.68	0.68	0.63	
13	0.90	0.56	0.94	1.23	1.44	15.96	8.34	2.94	0.85	0.73	0.76	0.60	
14	0.89	0.56	0.94	1.21	1.54	10.30	8.00	2.50	0.84	0.73	0.81	0.66	
15	0.86	0.56	0.87	1.29	1.56	6.10	9.19	2.16	0.83	0.70	0.86	0.75	
16	0.86	0.56	0.84	1.31	1.54	6.96	9.19	1.92	0.81	0.82	0.87	0.72	
17	0.86	0.57	0.78	1.24	1.56	5.98	7.09	1.68	0.80	0.71	0.79	0.62	
18	0.77	0.56	0.76	1.23	1.42	4.22	6.46	1.52	0.79	0.77	0.80	0.69	
19	0.66	0.56	0.80	1.19	1.48	4.31	5.86	1.48	0.78	0.72	0.83	0.62	
20	0.63	0.56	0.81	1.20	1.56	5.28	4.22	1.50	0.77	0.88	0.86	0.60	
21	0.56	0.56	0.83	1.20	1.39	4.31	3.42	1.42	0.76	0.93	0.89	0.64	
22	0.56	0.56	0.82	1.18	1.52	3.68	2.86	1.35	0.76	0.94	0.88	0.68	
23	0.56	0.56	1.29	1.22	1.72	4.95	5.06	1.29	0.75	0.86	0.89	0.68	
24	0.56	0.56	1.40	1.20	1.70	6.34	31.40	1.25	0.74	0.68	0.90	0.68	
25	0.56	0.56	1.36	3.77	1.68	4.73	35.00	1.22	0.74	0.76	0.90	0.62	
26	0.55	0.56	1.60	9.90	5.98	10.10	34.55	1.19	0.74	0.89	0.93	0.63	
27	0.56	0.55	1.74	6.46	9.90	6.83	44.18	1.15	0.74	0.96	0.93	0.65	
28	0.56	0.56	1.66	3.95	5.17	4.51	22.15	1.13	0.73	0.96	0.96	0.58	
29	0.56	0.56	1.58	2.86	3.59	22.90	12.12	1.11	0.73	0.86		0.60	
30	0.56	0.56	2.50	2.60	2.86	43.60	8.85	1.07	0.73	0.64		0.63	
31		0.55		3.18	7.74		7.74		0.72	0.74		0.63	
TOTAL	21.74	17.35	31.22	73.60	83.97	263.40	505.10	104.36	25.87	23.86	22.90	20.78	1194.15 CMSDAY
MEAN	0.72	0.56	1.04	2.37	2.71	8.78	16.29	3.48	0.83	0.77	0.82	0.67	3.27 CMS
MAX	0.99	0.57	2.50	9.90	9.90	43.60	44.18	14.04	1.04	0.96	0.96	0.97	44.18 CMS
MIN	0.55	0.55	0.55	1.18	1.39	3.68	2.86	1.07	0.72	0.64	0.61	0.58	0.55 CMS
RUNOFF	1.878	1.499	2.697	6.359	7.255	22.758	43.641	9.017	2.235	2.062	1.979	1.795	103.174 MCM

MOMENTARY PEAK 50.70 CMS, AT 201.97 M (MSL), AT 9.00 HOURS, ON OCT 27, 1980

RUNOFF YIELD 6.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 106.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

MUN RIVER AT BAN NA, NAKHON RATCHASIMA (M.49B)

LOCATION — LAT. 14°-29'-41" N., LONG. 102°-09'-37" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS DOWNSTREAM FROM PROPOSED DAMSITE, AMPHOE KHON BURI, NAKHON RATCHASIMA.

DRAINAGE AREA — 434 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +203.50 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — AT THE HEADWORK OF DAMSITE, ABOUT 150 METERS FROM THE GODOWN.

ELEVATION — +219.460 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1974 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

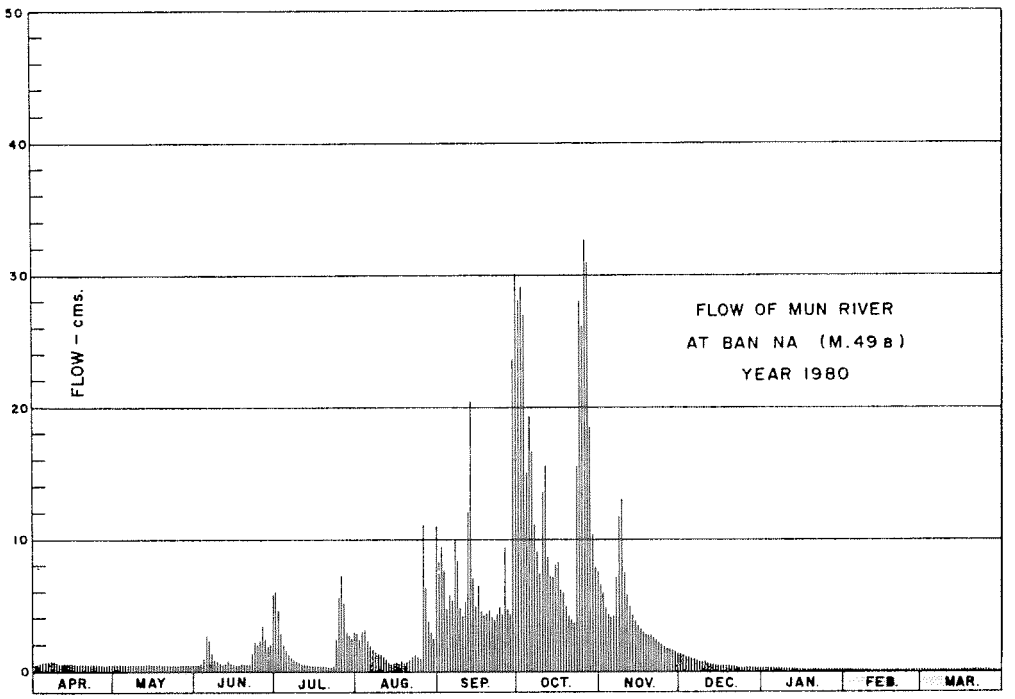
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 147 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	204.31	204.32	204.28	206.20	205.50	206.39	207.66	206.23	204.86	204.12	203.90	203.82	
2	204.36	204.32	204.36	205.87	205.34	206.50	207.70	206.11	204.84	204.12	203.90	203.81	
3	204.42	204.32	204.48	205.51	205.51	206.08	207.61	205.96	204.81	204.11	203.89	203.83	
4	204.47	204.32	204.67	205.23	205.55	205.91	206.96	205.84	204.77	204.11	203.89	203.83	
5	204.48	204.34	205.43	205.00	205.36	206.09	207.24	205.78	204.73	204.11	203.89	203.82	
6	204.49	204.33	205.30	204.82	205.25	206.02	207.12	205.77	204.70	204.10	203.89	203.81	
7	204.50	204.32	204.70	204.69	205.08	206.54	206.69	206.17	204.64	204.08	203.88	203.81	
8	204.50	204.32	204.66	204.62	204.95	206.38	206.47	206.69	204.58	204.07	203.87	203.81	
9	204.46	204.33	204.53	204.57	204.88	205.97	206.30	206.80	204.57	204.05	203.87	203.81	
10	204.43	204.38	204.40	204.54	204.87	205.79	206.85	206.32	204.53	204.04	203.87	203.80	
11	204.42	204.35	204.41	204.45	204.75	206.04	206.98	206.10	204.48	204.03	203.86	203.80	
12	204.41	204.33	204.50	204.40	204.66	206.75	206.45	205.94	204.41	204.02	203.86	203.82	
13	204.40	204.33	204.60	204.39	204.52	207.30	206.27	205.82	204.38	204.02	203.86	203.82	
14	204.40	204.33	204.45	204.34	204.43	206.27	206.27	205.72	204.35	204.00	203.85	203.82	
15	204.39	204.33	204.41	204.33	204.52	205.95	206.37	205.63	204.33	203.99	203.85	203.85	
16	204.38	204.33	204.36	204.33	204.52	206.19	206.38	205.56	204.30	203.98	203.85	203.84	
17	204.37	204.32	204.33	204.29	204.50	205.90	206.15	205.50	204.29	203.98	203.84	203.86	
18	204.37	204.31	204.40	204.29	204.60	205.81	206.11	205.45	204.28	203.97	203.83	203.84	
19	204.36	204.30	204.40	204.27	204.49	205.87	206.02	205.46	204.26	203.97	203.83	203.83	
20	204.35	204.29	204.35	204.24	204.58	205.90	205.83	205.45	204.25	203.97	203.82	203.81	
21	204.35	204.29	204.35	204.21	204.61	205.77	205.73	205.37	204.23	203.97	203.82	203.80	
22	204.35	204.28	204.83	204.21	204.80	205.72	205.66	205.31	204.22	203.96	203.82	203.79	
23	204.35	204.29	205.28	204.23	204.84	205.90	206.67	205.24	204.20	203.95	203.81	203.77	
24	204.34	204.29	205.22	205.14	204.76	205.96	207.66	205.18	204.19	203.95	203.80	203.78	
25	204.34	204.28	205.20	205.95	204.70	205.84	207.58	205.13	204.18	203.95	203.80	203.85	
26	204.33	204.28	205.61	206.27	206.70	206.50	207.83	205.09	204.18	203.94	203.80	203.85	
27	204.34	204.28	205.46	205.99	206.15	205.94	207.75	205.06	204.16	203.93	203.80	203.84	
28	204.33	204.28	205.19	205.50	205.71	205.85	207.08	205.01	204.15	203.93	203.82	203.84	
29	204.33	204.28	205.22	205.41	205.50	207.64	206.57	204.96	204.15	203.92		203.79	
30	204.33	204.28	206.09	205.38	205.35	207.74	206.37	204.90	204.13	203.91		203.78	
31		204.28		205.50	206.65		206.32		204.13	203.91		203.74	
MEAN	204.39	204.31	204.78	204.91	205.08	206.22	206.73	205.65	204.40	204.00	203.85	203.81	
MAX	204.50	204.38	206.09	206.27	206.70	207.74	207.83	206.80	204.86	204.12	203.90	203.86	207.83
MIN	204.31	204.28	204.28	204.21	204.43	205.72	205.66	204.90	204.13	203.91	203.80	203.74	203.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 207.94 M (MSL), AT 21.00 HOURS, ON OCT 26, 1980
ZERO GAGE AT BOTTOM ELEVATION 203.50 M (MSL), RIVER BED 203.50 M (MSL)
LEFT BANK ELEVATION 210.09 M (MSL)
RIGHT BANK ELEVATION 210.04 M (MSL), DRAINAGE AREA 434 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.47	0.43	6.60	3.00	8.31	28.04	6.87	1.32	0.30	0.12	0.06	
2	0.51	0.47	0.51	4.48	2.42	9.40	29.00	5.97	1.28	0.30	0.12	0.06	
3	0.57	0.47	0.63	3.04	3.04	5.76	26.84	4.96	1.22	0.29	0.11	0.07	
4	0.62	0.47	0.94	2.09	3.20	4.66	15.14	4.36	1.14	0.29	0.11	0.07	
5	0.63	0.49	2.72	1.60	2.48	5.83	19.38	4.12	1.06	0.29	0.11	0.06	
6	0.64	0.48	2.30	1.24	2.15	5.34	17.42	4.08	1.00	0.28	0.11	0.06	
7	0.65	0.47	1.00	0.98	1.76	9.80	11.57	6.39	0.88	0.26	0.11	0.06	
8	0.65	0.47	0.92	0.84	1.50	8.22	9.10	11.57	0.77	0.26	0.10	0.06	
9	0.61	0.48	0.70	0.75	1.36	5.02	7.50	13.00	0.75	0.24	0.10	0.06	
10	0.58	0.53	0.55	0.71	1.34	4.16	13.65	7.68	0.70	0.23	0.10	0.05	
11	0.57	0.50	0.56	0.63	1.18	5.48	15.42	5.90	0.63	0.22	0.09	0.05	
12	0.56	0.48	0.65	0.55	0.92	12.35	8.90	4.84	0.56	0.22	0.09	0.06	
13	0.55	0.48	0.80	0.54	0.68	20.40	7.23	4.28	0.53	0.22	0.09	0.06	
14	0.55	0.48	0.60	0.49	0.58	7.23	7.23	3.88	0.50	0.20	0.08	0.06	
15	0.54	0.48	0.56	0.48	0.68	4.90	8.13	3.52	0.48	0.19	0.08	0.08	
16	0.53	0.48	0.51	0.48	0.68	6.53	8.22	3.24	0.45	0.18	0.08	0.08	
17	0.52	0.47	0.48	0.44	0.65	4.60	6.25	3.00	0.44	0.18	0.08	0.09	
18	0.52	0.46	0.55	0.44	0.80	4.24	5.97	2.80	0.43	0.18	0.07	0.08	
19	0.51	0.45	0.55	0.42	0.64	4.48	5.34	2.84	0.41	0.18	0.07	0.07	
20	0.50	0.44	0.50	0.40	0.77	4.60	4.32	2.80	0.41	0.18	0.06	0.06	
21	0.50	0.44	0.50	0.37	0.82	4.08	3.92	2.51	0.39	0.18	0.06	0.05	
22	0.50	0.43	1.26	0.37	1.20	3.88	3.64	2.33	0.38	0.17	0.06	0.04	
23	0.50	0.44	2.24	0.39	1.28	4.60	11.31	2.12	0.36	0.16	0.06	0.04	
24	0.49	0.44	2.06	1.88	1.12	4.96	28.04	1.96	0.35	0.16	0.05	0.04	
25	0.49	0.43	2.00	4.90	1.00	4.36	26.16	1.86	0.34	0.16	0.05	0.08	
26	0.48	0.43	3.44	7.23	11.70	9.40	32.70	1.78	0.34	0.15	0.05	0.08	
27	0.49	0.43	2.84	5.14	6.25	4.84	30.40	1.72	0.33	0.14	0.05	0.08	
28	0.48	0.43	1.98	3.00	3.84	4.40	16.82	1.62	0.32	0.14	0.06	0.08	
29	0.48	0.43	2.06	2.64	3.00	27.56	10.10	1.52	0.32	0.14		0.04	
30	0.48	0.43	5.83	2.54	2.45	30.12	8.13	1.40	0.30	0.13		0.04	
31		0.43		3.00	11.05		7.68		0.30	0.13		0.02	
TOTAL	16.16	14.28	40.67	58.63	73.46	239.51	433.55	124.92	18.69	6.35	2.32	1.89	1030.43 CMSDAY
MEAN	0.54	0.46	1.36	1.89	2.37	7.98	13.99	4.16	0.60	0.20	0.08	0.06	2.82 CMS
MAX	0.65	0.53	5.83	7.23	11.70	30.12	32.70	13.00	1.32	0.30	0.12	0.09	32.70 CMS
MIN	0.46	0.43	0.43	0.37	0.58	3.88	3.64	1.40	0.30	0.13	0.05	0.02	0.02 CMS
RUNOFF	1.396	1.234	3.514	5.066	6.347	20.694	37.459	10.793	1.615	0.549	0.200	0.163	89.029 MCM

MOMENTARY PEAK 36.00 CMS, AT 207.94 M (MSL), AT 21.00 HOURS, ON OCT 26, 1980

RUNOFF YIELD 6.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

LAM SAE AT KHON BURI, NAKHON RATCHASIMA (M.50)

LOCATION — LAT. 14°-31'-08" N., LONG. 102°-14'-39" E., ON RIGHT BANK ABOUT 500 METERS SOUTH OF AMPHOE KHON BURI OFFICE, AND ABOUT 30 METERS SOUTH-EAST OF THE SANITARIUM, AMPHOE KHON BURI, NAKHON RATCHASIMA.

DRAINAGE AREA — 875 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — UNDER THE BIG TREE NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +10.00 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1967

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1967

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

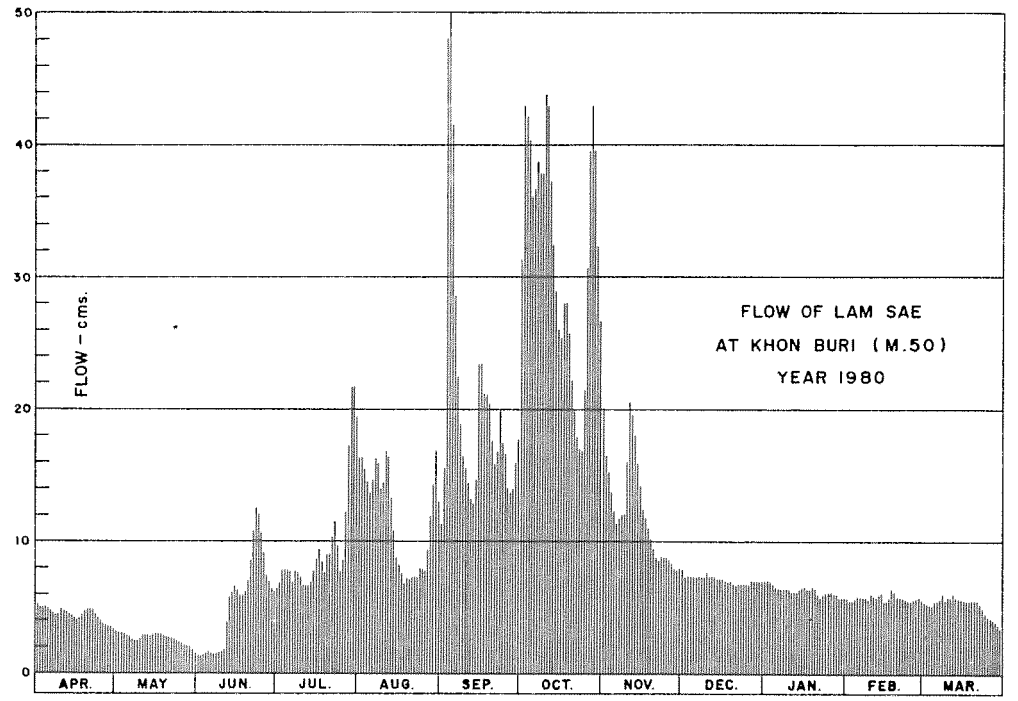
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.57	1.36	1.13	1.68	1.99	1.87	2.26	2.06	1.75	1.71	1.61	1.60	
2	1.55	1.36	1.13	1.70	1.99	1.97	2.38	1.99	1.73	1.71	1.60	1.59	
3	1.56	1.36	1.14	1.75	1.97	2.42	2.36	1.96	1.73	1.71	1.60	1.58	
4	1.55	1.35	1.16	1.75	1.94	2.47	2.37	1.91	1.73	1.70	1.61	1.58	
5	1.53	1.35	1.17	1.75	1.93	2.31	2.34	1.89	1.73	1.68	1.63	1.60	
6	1.52	1.34	1.17	1.74	1.96	2.18	2.29	1.87	1.73	1.68	1.63	1.60	
7	1.50	1.32	1.16	1.70	1.99	2.09	2.33	1.88	1.73	1.68	1.63	1.62	
8	1.49	1.30	1.16	1.74	1.98	2.03	2.32	1.89	1.73	1.67	1.63	1.65	
9	1.51	1.29	1.17	1.74	1.96	1.99	2.32	1.89	1.73	1.67	1.62	1.60	
10	1.54	1.31	1.18	1.71	1.97	1.97	2.39	1.98	1.74	1.67	1.64	1.63	
11	1.53	1.35	1.21	1.69	2.00	1.95	2.38	2.07	1.73	1.66	1.63	1.63	
12	1.51	1.35	1.44	1.69	1.99	1.92	2.35	2.05	1.73	1.66	1.63	1.64	
13	1.50	1.34	1.61	1.69	1.93	1.91	2.26	2.02	1.73	1.66	1.64	1.63	
14	1.49	1.34	1.64	1.71	1.83	1.95	2.20	1.98	1.72	1.67	1.64	1.62	
15	1.48	1.34	1.68	1.75	1.79	2.12	2.16	1.94	1.72	1.68	1.60	1.61	
16	1.46	1.36	1.66	1.78	1.77	2.12	2.15	1.90	1.72	1.68	1.61	1.60	
17	1.47	1.36	1.63	1.81	1.74	2.08	2.19	1.88	1.71	1.67	1.62	1.60	
18	1.51	1.36	1.63	1.77	1.70	2.08	2.19	1.85	1.71	1.67	1.67	1.60	
19	1.52	1.35	1.65	1.74	1.72	2.07	2.15	1.82	1.71	1.68	1.66	1.60	
20	1.54	1.33	1.71	1.79	1.71	2.02	2.10	1.81	1.70	1.67	1.63	1.60	
21	1.55	1.33	1.80	1.80	1.72	1.98	2.06	1.78	1.70	1.64	1.63	1.60	
22	1.54	1.32	1.86	1.85	1.73	2.00	2.03	1.78	1.70	1.62	1.63	1.59	
23	1.50	1.30	1.90	1.87	1.73	2.06	2.01	1.79	1.70	1.64	1.62	1.58	
24	1.47	1.30	1.89	1.78	1.75	2.01	2.00	1.79	1.70	1.65	1.60	1.53	
25	1.45	1.28	1.85	1.74	1.75	1.99	2.07	1.79	1.70	1.65	1.60	1.49	
26	1.43	1.27	1.80	1.78	1.74	1.94	2.24	1.78	1.70	1.65	1.61	1.48	
27	1.42	1.25	1.73	1.84	1.80	1.93	2.34	1.76	1.71	1.64	1.62	1.47	
28	1.41	1.25	1.71	2.01	1.88	1.94	2.38	1.75	1.71	1.64	1.62	1.45	
29	1.41	1.24	1.67	2.09	1.96	1.98	2.34	1.75	1.71	1.62		1.43	
30	1.39	1.20	1.65	2.09	2.00	2.02	2.25	1.75	1.71	1.62		1.41	
31		1.16		2.05	1.92		2.17		1.71	1.62		1.39	
MEAN	1.50	1.31	1.51	1.79	1.87	2.05	2.24	1.88	1.72	1.66	1.62	1.57	
MAX	1.57	1.36	1.90	2.09	2.00	2.47	2.39	2.07	1.75	1.71	1.67	1.65	2.47
MIN	1.39	1.16	1.13	1.68	1.70	1.87	2.00	1.75	1.70	1.62	1.60	1.39	1.13

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.52 M (A.D.), AT 3.00 HOURS, ON SEP 4, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED -0.39 M (A.D.)

LEFT BANK ELEVATION — 3.32 M (A.D.)

RIGHT BANK ELEVATION — 3.34 M (A.D.), DRAINAGE AREA 875 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.17	3.04	1.38	6.54	16.37	11.48	33.14	20.04	7.95	7.03	5.63	5.50	
2	4.95	3.04	1.38	6.80	16.37	15.51	42.90	16.37	7.49	7.03	5.50	5.39	
3	5.06	3.04	1.44	7.95	15.51	46.60	41.20	15.08	7.49	7.03	5.50	5.28	
4	4.95	2.95	1.56	7.95	14.22	51.60	42.05	12.93	7.49	6.80	5.63	5.28	
5	4.73	2.95	1.62	7.95	13.79	36.95	39.50	12.16	7.49	6.54	5.89	5.50	
6	4.62	2.86	1.62	7.72	15.08	27.40	35.36	11.48	7.49	6.54	5.89	5.50	
7	4.40	2.68	1.56	6.80	16.37	21.66	38.65	11.82	7.49	6.54	5.89	5.76	
8	4.30	2.50	1.56	7.72	15.94	18.42	37.80	12.16	7.49	6.41	5.89	6.15	
9	4.51	2.43	1.62	7.72	15.08	16.37	37.80	12.16	7.49	6.41	5.76	5.50	
10	4.84	2.59	1.68	7.03	15.51	15.51	43.75	15.94	7.72	6.41	6.02	5.89	
11	4.73	2.95	1.87	6.67	16.80	14.65	42.90	20.58	7.49	6.28	5.89	5.89	
12	4.51	2.95	3.80	6.67	16.37	13.36	40.35	19.50	7.49	6.28	5.89	6.02	
13	4.40	2.86	5.63	6.67	13.79	12.93	33.14	17.88	7.49	6.28	6.02	5.89	
14	4.30	2.86	6.02	7.03	10.12	14.65	28.70	15.94	7.26	6.41	6.02	5.76	
15	4.20	2.86	6.54	7.95	8.87	23.50	26.10	14.22	7.26	6.54	5.50	5.63	
16	4.00	3.04	6.26	8.64	8.41	23.50	25.45	12.50	7.26	6.54	5.63	5.50	
17	4.10	3.04	5.89	9.44	7.72	21.12	28.05	11.82	7.03	6.41	5.76	5.50	
18	4.51	3.04	5.89	8.41	6.80	21.12	28.05	10.80	7.03	6.41	6.41	5.50	
19	4.62	2.95	6.15	7.72	7.26	20.58	25.45	9.78	7.03	6.54	6.28	5.50	
20	4.84	2.77	7.03	8.87	7.03	17.88	22.20	9.44	6.80	6.41	5.89	5.50	
21	4.95	2.77	9.10	9.10	7.26	15.94	20.04	8.64	6.80	6.02	5.89	5.50	
22	4.84	2.68	11.14	10.80	7.49	16.80	18.42	8.64	6.80	5.76	5.89	5.39	
23	4.40	2.50	12.50	11.48	7.49	20.04	17.34	8.87	6.80	6.02	5.76	5.28	
24	4.10	2.50	12.16	8.64	7.95	17.34	16.80	8.87	6.80	6.15	5.50	4.73	
25	3.90	2.36	10.80	7.72	7.95	16.37	20.58	8.87	6.80	6.15	5.50	4.30	
26	3.70	2.29	9.10	8.64	7.72	14.22	31.66	8.64	6.80	6.15	5.63	4.20	
27	3.60	2.15	7.49	10.46	9.10	13.79	39.50	8.18	7.03	6.02	5.76	4.10	
28	3.50	2.15	7.03	17.34	11.82	14.22	42.90	7.95	7.03	6.02	5.76	3.90	
29	3.50	2.08	6.41	21.66	15.08	15.94	39.50	7.95	7.03	5.76		3.70	
30	3.31	1.80	6.15	21.66	16.80	17.88	32.40	7.95	7.03	5.76		3.50	
31		1.56		19.50	13.36		26.75		7.03	5.76		3.31	
TOTAL	131.54	82.24	162.40	299.25	369.43	607.33	998.43	367.16	223.68	196.41	162.58	160.35	3760.79 CMSDAY
MEAN	4.38	2.65	5.41	9.65	11.92	20.24	32.21	12.24	7.22	6.34	5.81	5.17	10.30 CMS
MAX	5.17	3.04	12.50	21.66	16.80	51.60	43.75	20.58	7.95	7.03	6.41	6.15	51.60 CMS
MIN	3.31	1.56	1.38	6.54	6.80	11.48	16.80	7.95	6.80	5.76	5.50	3.31	1.38 CMS
RUNOFF	11.365	7.106	14.031	25.855	31.919	52.473	86.264	31.723	19.326	16.970	14.047	13.854	324.933 MCM

MOMENTARY PEAK 56.90 CMS, AT 2.52 M (A.D), AT 3.00 HOURS, ON SEP 4, 1980

RUNOFF YIELD 11.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 65.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI KHAYUNG AT BAN NAM OM, SI SA KET (M.66)

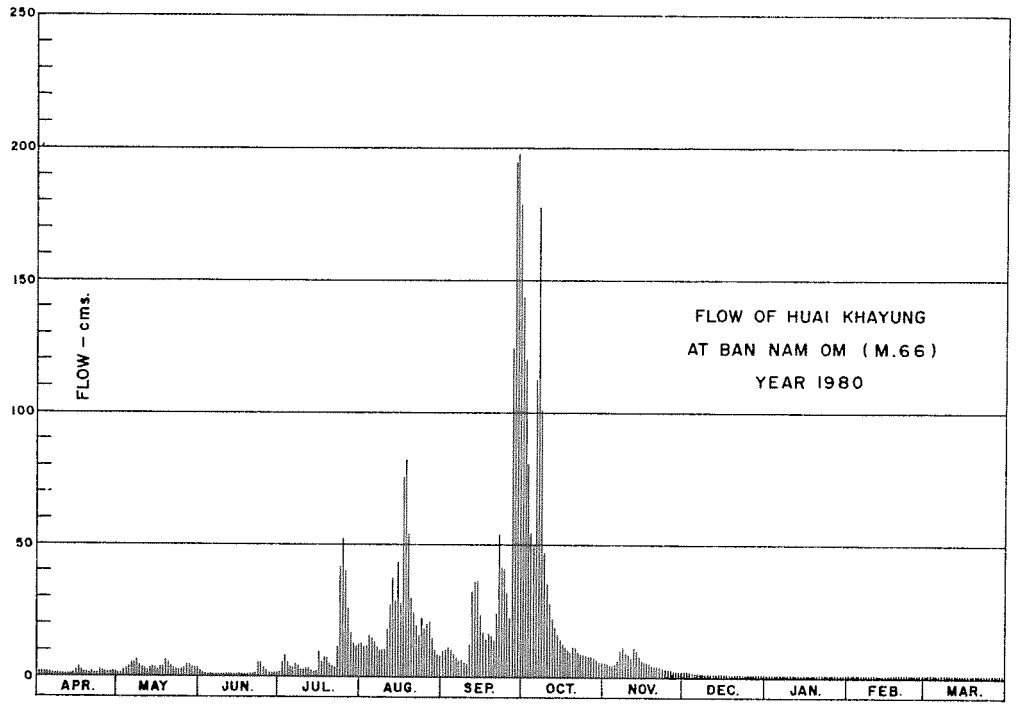
LOCATION — LAT. 14°-38'-23" N., LONG. 104°-39'-45" E., ON RIGHT BANK ABOUT 50 METERS UPSTREAM FROM THE BRIDGE OF KANTHARALAK-DET UDOM ROAD, BAN NAM OM, AMPHOE KANTHARALAK, SI SA KET.

DRAINAGE AREA	586 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D. NO.1
LOCATION	AT THE FOOT OF THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+6.581 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1968, 1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1968, 1972 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.21	0.46	1.00	1.23	2.23	3.67	2.11	1.00	0.50	0.31	0.32	
2	0.20	0.21	0.48	0.93	1.42	2.14	4.72	1.91	0.96	0.49	0.31	0.29	
3	0.18	0.22	0.55	0.86	1.48	1.88	4.69	1.77	0.93	0.48	0.30	0.31	
4	0.18	0.24	0.48	0.76	1.15	1.77	3.81	1.70	0.90	0.47	0.29	0.31	
5	0.19	0.27	0.54	0.83	0.98	1.57	2.96	2.23	0.88	0.45	0.32	0.32	
6	0.19	0.33	0.71	0.75	0.87	1.47	2.79	2.60	0.86	0.45	0.29	0.32	
7	0.18	0.37	0.56	0.65	0.86	1.80	4.32	1.99	0.83	0.45	0.31	0.31	
8	0.17	0.37	0.52	0.64	0.95	1.75	3.49	1.75	0.80	0.45	0.29	0.31	
9	0.24	0.35	0.52	0.64	0.84	1.51	2.68	1.86	0.77	0.43	0.30	0.27	
10	0.25	0.35	0.63	0.67	0.75	1.48	2.29	1.84	0.75	0.42	0.30	0.25	
11	0.43	0.33	0.79	0.61	0.75	1.54	2.52	1.61	0.74	0.41	0.29	0.25	
12	0.44	0.30	0.86	0.57	0.77	2.00	2.66	1.47	0.73	0.42	0.29	0.25	
13	0.46	0.29	0.97	0.51	0.85	1.95	2.19	1.37	0.72	0.41	0.31	0.25	
14	0.39	0.27	0.79	0.47	0.71	1.63	2.15	1.30	0.70	0.40	0.29	0.26	
15	0.36	0.33	0.68	0.42	0.65	2.51	2.04	1.25	0.68	0.40	0.28	0.26	
16	0.41	0.41	0.73	0.40	0.65	3.85	1.98	1.20	0.66	0.40	0.28	0.26	
17	0.39	0.44	0.85	0.39	0.61	2.60	1.92	1.17	0.64	0.40	0.28	0.26	
18	0.35	0.39	1.04	0.38	0.68	2.66	1.91	2.34	0.62	0.40	0.28	0.24	
19	0.32	0.45	1.13	0.46	0.98	2.88	2.18	2.86	0.62	0.39	0.27	0.23	
20	0.31	0.45	1.28	0.54	1.14	2.59	2.83	2.00	0.61	0.39	0.27	0.22	
21	0.29	0.39	1.18	0.64	1.28	2.24	2.13	1.72	0.60	0.38	0.28	0.22	
22	0.29	0.43	1.12	0.69	1.06	1.99	2.51	1.56	0.58	0.37	0.27	0.21	
23	0.28	0.53	1.14	0.84	0.99	2.02	2.93	1.43	0.55	0.37	0.28	0.20	
24	0.25	0.82	1.03	0.93	1.11	2.01	2.90	1.34	0.54	0.37	0.30	0.20	
25	0.24	0.91	1.00	1.33	1.19	1.95	3.73	1.28	0.55	0.37	0.28	0.20	
26	0.22	0.87	1.05	1.23	1.45	1.66	5.32	1.21	0.56	0.36	0.29	0.19	
27	0.23	0.79	0.94	1.04	1.64	1.51	4.61	1.16	0.53	0.36	0.30	0.20	
28	0.22	0.71	0.85	1.04	1.37	1.53	3.43	1.11	0.53	0.35	0.32	0.20	
29	0.22	0.64	0.89	0.99	1.33	1.72	2.71	1.07	0.52	0.35		0.19	
30	0.22	0.55	0.92	1.07	1.90	2.13	2.40	1.03	0.51	0.33		0.19	
31		0.47		0.94	2.46		2.28		0.49	0.33		0.20	
MEAN	0.28	0.44	0.82	0.75	1.10	2.02	2.99	1.64	0.69	0.40	0.29	0.25	
MAX	0.46	0.91	1.28	1.33	2.46	3.85	5.32	2.86	1.00	0.50	0.32	0.32	5.32
MIN	0.17	0.21	0.46	0.38	0.61	1.47	1.91	1.03	0.49	0.33	0.27	0.19	0.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.40 M (A.D), AT 12.00 HOURS, ON OCT 26, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.07 M (A.D)
LEFT BANK ELEVATION 6.16 M (A.D)
RIGHT BANK ELEVATION 6.86 M (A.D), DRAINAGE AREA 586 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.26	2.08	8.60	11.88	32.20	70.10	28.84	8.60	2.40	0.88	0.96	
2	0.20	0.26	2.24	7.62	15.16	29.56	103.88	24.42	8.04	2.32	0.88	0.74	
3	0.16	0.32	2.90	6.64	16.24	23.80	102.86	21.60	7.62	2.24	0.80	0.88	
4	0.16	0.44	2.24	5.24	10.70	21.60	74.30	20.20	7.20	2.16	0.74	0.88	
5	0.18	0.62	2.80	6.22	8.32	17.86	50.16	31.72	6.92	2.00	0.96	0.96	
6	0.18	1.04	4.54	5.10	6.78	16.06	45.74	40.80	6.64	2.00	0.74	0.96	
7	0.16	1.36	3.00	3.90	6.64	22.20	90.28	26.18	6.22	2.00	0.88	0.88	
8	0.14	1.36	2.60	3.80	7.90	21.20	64.92	21.20	5.80	2.00	0.74	0.88	
9	0.44	1.20	2.60	3.80	6.36	16.78	42.88	23.40	5.38	1.84	0.80	0.62	
10	0.50	1.20	3.70	4.10	5.10	16.24	33.16	23.00	5.10	1.76	0.80	0.50	
11	1.84	1.04	5.66	3.50	5.10	17.32	38.72	18.58	4.96	1.68	0.74	0.50	
12	1.92	0.80	6.64	3.10	5.38	26.40	42.36	16.06	4.82	1.76	0.74	0.50	
13	2.08	0.74	8.18	2.50	6.50	25.30	30.76	14.26	4.68	1.68	0.88	0.50	
14	1.52	0.62	5.66	2.16	4.54	18.94	29.80	13.00	4.40	1.60	0.74	0.56	
15	1.28	1.04	4.20	1.76	3.90	38.46	27.28	12.20	4.20	1.60	0.68	0.56	
16	1.68	1.68	4.82	1.60	3.90	75.50	25.96	11.40	4.00	1.60	0.68	0.56	
17	1.92	1.92	6.50	1.52	3.50	40.80	24.64	10.98	3.80	1.60	0.68	0.56	
18	1.20	1.52	9.16	1.44	4.20	42.36	24.42	34.36	3.60	1.60	0.68	0.44	
19	0.96	2.00	12.42	2.08	8.32	48.08	30.52	47.56	3.60	1.52	0.62	0.38	
20	0.88	2.00	12.68	2.80	10.56	40.54	46.78	26.40	3.50	1.52	0.62	0.32	
21	0.74	1.52	11.12	3.80	12.68	31.96	29.32	20.60	3.40	1.44	0.68	0.32	
22	0.74	1.84	10.28	4.30	9.44	26.18	38.46	17.68	3.20	1.36	0.62	0.26	
23	0.68	2.70	10.56	6.36	8.46	26.84	49.38	15.34	2.90	1.36	0.68	0.20	
24	0.50	6.08	9.02	7.62	10.14	26.62	48.60	13.72	2.80	1.36	0.80	0.20	
25	0.44	7.34	8.60	13.54	11.26	25.30	71.90	12.68	2.90	1.36	0.68	0.20	
26	0.32	6.78	9.30	11.88	15.70	19.48	126.16	11.56	3.00	1.28	0.74	0.18	
27	0.38	5.66	7.76	9.16	19.12	16.78	100.14	10.84	2.70	1.28	0.80	0.20	
28	0.32	4.54	6.50	9.16	14.26	17.14	63.24	10.14	2.70	1.20	0.96	0.20	
29	0.32	3.80	7.06	8.46	13.54	20.60	43.66	9.58	2.60	1.20		0.18	
30	0.32	2.90	7.48	9.58	24.20	29.32	35.80	9.02	2.50	1.04		0.18	
31		2.16		7.76	37.24		32.92		2.32	1.04		0.20	
TOTAL	21.96	66.74	190.30	169.10	327.02	831.42	1639.10	597.32	140.10	50.80	21.24	15.46	4070.55 CMSDAY
MEAN	0.73	2.15	6.34	5.45	10.55	27.71	52.87	19.91	4.52	1.64	0.76	0.50	11.15 CMS
MAX	2.08	7.34	12.68	13.54	37.24	75.50	126.16	47.56	8.60	2.40	0.96	0.96	126.16 CMS
MIN	0.14	0.26	2.08	1.44	3.50	16.06	24.42	9.02	2.32	1.04	0.62	0.18	0.14 CMS
RUNOFF	1.897	5.766	16.442	14.610	28.254	71.835	141.618	51.608	12.105	4.389	1.835	1.336	351.696 MCM

MOMENTARY PEAK 129.20 CMS, AT 5.40 M (A.D), AT 12.00 HOURS, ON OCT 26, 1980

RUNOFF YIELD 19.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 220.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

LAM SE BOK AT BAN THA BO BAENG, UBON RATCHATHANI (M.69)

LOCATION — LAT. 15°-30'-11" N., LONG. 104°-58'-01" E., ON LEFT BANK ABOUT 100 METERS UPSTREAM FROM THE BRIDGE OF UBON-TRAKAN PHUTPHON HIGHWAY, AMPHOE TRAKAN PHUTPHON, UBON RATCHATHANI.

DRAINAGE AREA — 2,132 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — BESIDE THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +9.985 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971, 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971, 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW IS EFFECTED BY BACKWATER OF MUN RIVER.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

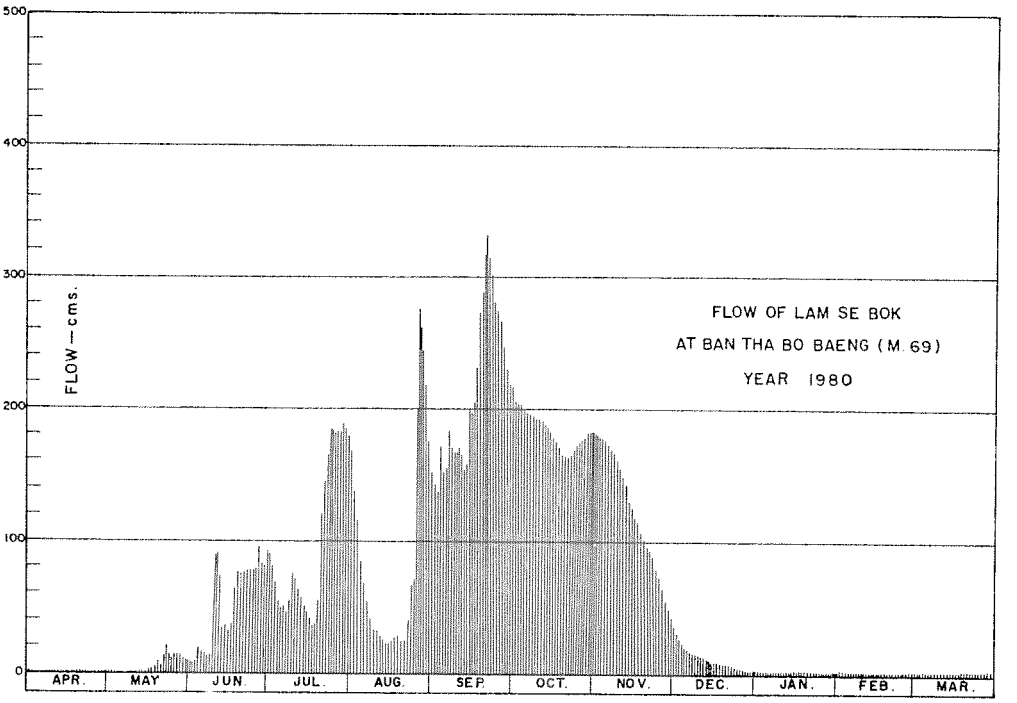
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.57	1.26	3.99	5.58	5.29	6.47	5.91	2.46	0.96	0.84	0.86	
2	0.58	0.55	1.18	3.83	5.19	5.10	6.36	5.89	2.27	0.94	0.84	0.86	
3	0.57	0.55	1.35	3.59	4.73	5.01	6.34	5.88	2.12	0.91	0.85	0.88	
4	0.58	0.55	1.73	3.29	4.26	5.74	6.32	5.86	2.00	0.90	0.85	0.88	
5	0.57	0.58	1.74	2.96	3.87	5.31	6.27	5.83	1.91	0.90	0.85	0.88	
6	0.56	0.60	1.65	2.88	3.53	5.39	6.22	5.77	1.84	0.90	0.85	0.89	
7	0.54	0.60	1.62	2.85	3.21	5.95	6.20	5.70	1.77	0.90	0.84	0.89	
8	0.53	0.61	1.52	2.76	2.86	5.76	6.19	5.61	1.72	0.91	0.84	0.90	
9	0.54	0.61	1.58	3.14	2.56	5.64	6.17	5.53	1.67	0.92	0.84	0.90	
10	0.58	0.62	2.70	3.61	2.37	5.65	6.15	5.43	1.62	0.92	0.83	0.90	
11	0.59	0.64	4.00	3.57	2.35	5.71	6.12	5.31	1.59	0.91	0.83	0.91	
12	0.61	0.64	4.00	3.36	2.26	5.56	6.09	5.19	1.53	0.91	0.84	0.90	
13	0.60	0.64	3.02	3.15	2.13	5.31	6.06	5.07	1.49	0.91	0.85	0.91	
14	0.60	0.64	2.41	2.99	2.05	5.66	6.01	4.93	1.46	0.91	0.86	0.91	
15	0.58	0.64	2.54	2.86	2.01	6.23	5.93	4.80	1.41	0.91	0.87	0.91	
16	0.54	0.69	2.32	2.74	2.09	6.18	5.87	4.67	1.37	0.91	0.88	0.93	
17	0.53	0.89	2.40	2.60	2.15	6.63	5.81	4.55	1.34	0.90	0.87	0.95	
18	0.53	0.87	3.23	2.48	2.26	7.33	5.75	4.44	1.30	0.90	0.87	0.95	
19	0.55	0.99	3.66	2.70	2.11	7.60	5.68	4.33	1.26	0.90	0.87	0.95	
20	0.57	1.31	3.61	3.88	2.04	8.14	5.62	4.22	1.22	0.90	0.88	0.95	
21	0.59	0.99	3.62	4.80	2.10	8.48	5.60	4.14	1.21	0.90	0.80	0.95	
22	0.60	1.08	3.67	5.22	2.04	8.29	5.60	4.06	1.18	0.89	0.80	0.95	
23	0.61	1.88	3.67	5.53	2.44	7.95	5.62	3.93	1.14	0.89	0.89	0.95	
24	0.60	1.57	3.66	5.78	3.37	7.70	5.68	3.79	1.12	0.88	0.89	0.94	
25	0.62	1.41	3.71	5.96	3.38	7.58	5.75	3.65	1.09	0.88	0.88	0.94	
26	0.62	1.50	3.71	5.89	6.33	7.42	5.80	3.52	1.07	0.88	0.87	0.93	
27	0.61	1.60	4.12	5.95	7.55	7.21	5.83	3.37	1.05	0.87	0.86	0.93	
28	0.61	1.61	3.95	5.92	7.21	6.98	5.88	3.18	1.03	0.87	0.87	0.93	
29	0.62	1.55	3.71	6.06	6.80	6.80	5.92	2.95	1.02	0.86		0.93	
30	0.00	1.46	4.02	5.97	6.14	6.62	5.94	2.69	1.00	0.84		0.93	
31		1.36		5.87	5.59		5.94		0.98	0.84		0.93	
MEAN	0.58	0.96	2.85	4.07	3.63	6.47	5.97	4.67	1.46	0.90	0.85	0.92	
MAX	0.62	1.88	4.12	6.06	7.55	8.48	6.47	5.91	2.46	0.96	0.89	0.95	8.48
MIN	0.53	0.55	1.18	2.48	2.01	5.01	5.60	2.69	0.98	0.84	0.80	0.86	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.52 M (A.D), AT 6.00 HOURS, ON SEP 21, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.53 M (A.D)

LEFT BANK ELEVATION 11.39 M (A.D)

RIGHT BANK ELEVATION 12.39 M (A.D), DRAINAGE AREA 2132 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	8.90	91.10	165.50	151.00	213.35	182.55	36.80	4.40	2.66	2.94	
2	0.00	0.00	7.70	84.70	146.00	141.50	207.30	181.45	31.10	4.10	2.66	2.94	
3	0.00	0.00	10.50	75.10	123.85	137.00	206.20	180.90	27.00	3.65	2.80	3.22	
4	0.00	0.00	18.10	63.65	102.70	173.50	205.10	179.80	24.00	3.50	2.80	3.22	
5	0.00	0.00	18.30	52.10	86.30	152.00	202.35	178.15	21.75	3.50	2.80	3.22	
6	0.00	0.00	16.50	49.40	72.70	156.00	199.60	175.00	20.30	3.50	2.80	3.36	
7	0.00	0.00	15.90	48.50	60.85	184.75	198.50	171.50	18.90	3.50	2.66	3.36	
8	0.00	0.10	13.90	45.80	48.80	174.50	197.95	167.00	17.90	3.65	2.66	3.50	
9	0.00	0.10	15.10	58.40	39.80	168.50	196.85	163.00	16.90	3.80	2.66	3.50	
10	0.00	0.20	44.00	75.90	34.10	169.00	195.75	158.00	15.90	3.80	2.52	3.50	
11	0.00	0.40	91.50	74.30	33.50	172.00	194.10	152.00	15.30	3.65	2.52	3.65	
12	0.10	0.40	91.50	66.10	30.80	164.50	192.45	146.00	14.10	3.65	2.66	3.50	
13	0.00	0.40	54.20	58.75	27.25	152.00	190.80	140.00	13.30	3.65	2.90	3.65	
14	0.00	0.40	35.30	53.15	25.25	169.50	188.05	133.00	12.70	3.65	2.94	3.65	
15	0.00	0.40	39.20	48.80	24.25	200.15	183.65	127.00	11.70	3.65	3.08	3.65	
16	0.00	0.90	32.60	45.20	26.25	197.40	180.35	121.15	10.90	3.65	3.22	3.95	
17	0.00	3.36	35.00	41.00	27.75	222.15	177.05	115.75	10.30	3.50	3.08	4.25	
18	0.00	3.08	61.55	37.40	30.80	262.80	174.00	110.80	9.50	3.50	3.08	4.25	
19	0.00	4.85	77.90	44.00	26.75	279.00	170.50	105.85	8.90	3.50	3.08	4.25	
20	0.00	9.70	75.90	86.70	25.00	311.40	167.50	100.90	8.30	3.50	3.22	4.25	
21	0.00	4.85	76.30	127.00	26.50	332.20	166.50	97.30	8.15	3.50	2.10	4.25	
22	0.00	6.20	78.30	147.50	25.00	320.40	166.50	93.50	7.70	3.36	2.10	4.25	
23	0.10	21.10	78.30	163.00	36.20	300.00	167.50	88.70	7.10	3.36	3.36	4.25	
24	0.00	14.90	77.90	175.50	66.45	285.00	170.50	83.10	6.80	3.22	3.36	4.10	
25	0.20	11.70	79.90	185.30	66.80	277.80	174.00	77.50	6.35	3.22	3.22	4.10	
26	0.20	13.50	79.90	181.45	205.65	268.20	176.50	72.30	6.05	3.22	3.08	3.95	
27	0.10	15.50	96.40	184.75	276.00	255.60	178.15	66.45	5.75	3.08	2.94	3.95	
28	0.10	15.70	89.50	183.10	255.60	241.80	180.90	59.80	5.45	3.08	3.08	3.95	
29	0.20	14.50	79.90	190.80	231.50	231.50	183.10	51.75	5.30	2.94		3.95	
30	0.00	12.70	92.30	185.85	195.20	221.60	184.20	43.70	5.00	2.66		3.95	
31		10.70		180.35	166.00		184.20		4.70	2.66		3.95	
TOTAL	1.00	165.64	1592.25	3104.65	2709.10	6472.73	5773.45	3723.90	413.90	107.60	79.94	116.46	24260.61 CMSDAY
MEAN	0.03	5.34	53.07	100.15	87.39	215.76	186.24	124.13	13.35	3.47	2.85	3.76	66.47 CMS
MAX	0.20	21.10	96.40	190.80	276.00	332.20	213.35	182.55	36.80	4.40	3.36	4.25	332.20 CMS
MIN	0.00	0.00	7.70	37.40	24.25	137.00	166.50	43.70	4.70	2.66	2.10	2.94	0.00 CMS
RUNOFF	0.086	14.311	137.570	268.242	234.066	559.245	498.826	321.745	35.761	9.297	6.907	10.062	2096.116 MCM

MOMENTARY PEAK 334.80 CMS, AT 8.52 M (A.D), AT 6.00 HOURS, ON SEP 21, 1980

RUNOFF YIELD 31.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 157.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI KWANG AT BAN KAENG YANG, UBON RATCHATHANI (M.75)

LOCATION — LAT. 15°-09'-53" N., LONG. 105°-17'-01" E., ON LEFT BANK AT THE BRIDGE OF PHIBUN MANGSAHAN-CHONG MEK HIGHWAY NEAR WAT PA THEPBUROM, AMPHOE PHIBUN MANGSAHAN, UBON RATCHATHANI.

DRAINAGE AREA — 388 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 9 METERS FROM THE BANK AT WAT PA THEPBUROM.

ELEVATION — +6.775 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 — 1965-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1979

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

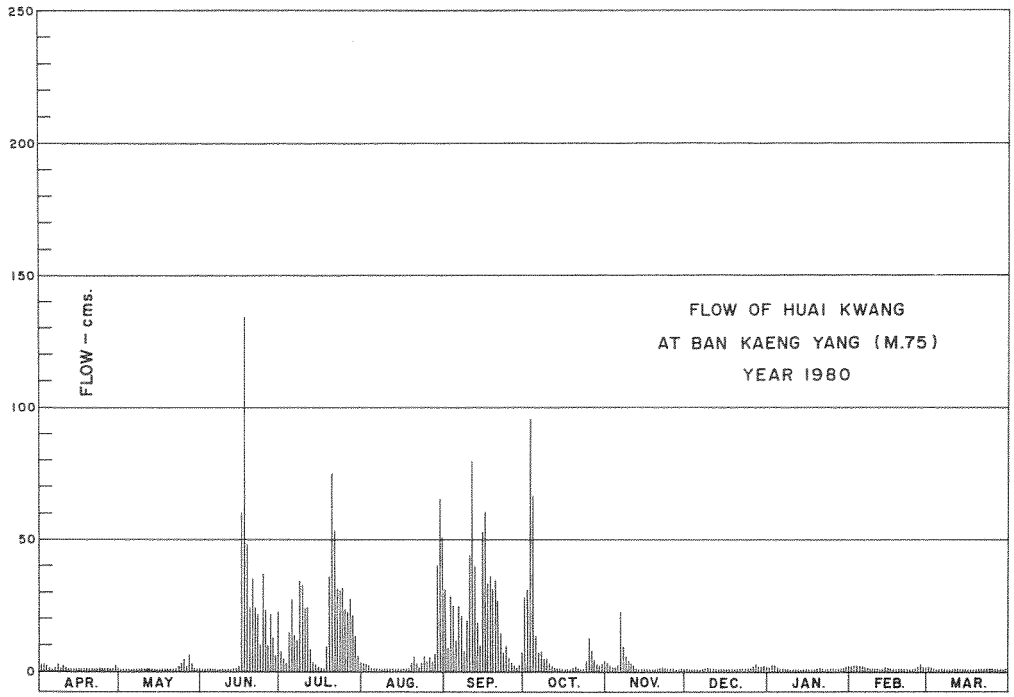
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.45	0.80	0.93	1.80	1.55	2.12	2.29	1.52	1.23	1.35	1.50	1.49	
2	1.50	0.76	0.83	1.67	1.55	1.82	2.39	1.43	1.17	1.54	1.48	1.44	
3	1.49	0.94	0.78	1.52	1.51	2.31	4.09	1.36	1.15	1.54	1.51	1.40	
4	1.29	1.01	0.75	2.04	1.34	2.22	2.79	1.50	1.16	1.46	1.52	1.36	
5	0.97	0.87	0.85	2.27	1.20	1.80	1.91	1.53	1.27	1.27	1.48	1.34	
6	1.04	0.87	0.88	1.89	1.09	2.16	1.74	2.16	1.34	1.32	1.47	1.34	
7	1.49	0.86	1.05	1.90	1.11	2.02	1.78	1.81	1.37	1.21	1.35	1.32	
8	1.33	0.98	0.95	2.49	1.17	1.77	1.68	1.69	1.36	1.08	1.25	1.26	
9	1.45	0.94	0.82	2.43	1.27	1.97	1.69	1.64	1.39	1.02	1.21	1.25	
10	1.37	0.98	0.77	2.16	1.26	2.46	1.57	1.56	1.21	1.01	1.25	1.29	
11	1.14	1.01	0.77	2.17	1.19	3.68	1.46	1.47	0.82	1.00	1.23	1.26	
12	0.96	0.93	0.77	1.78	1.15	2.87	1.40	1.35	0.96	1.02	1.17	1.27	
13	0.85	1.04	0.96	1.64	1.16	1.98	1.36	1.19	1.05	0.97	1.30	1.32	
14	0.85	1.05	1.07	1.55	0.98	1.83	1.26	1.11	1.08	1.05	1.40	1.17	
15	0.96	0.88	1.46	1.42	1.03	3.03	1.17	1.05	1.09	1.07	1.43	1.23	
16	1.06	0.87	1.09	1.27	1.02	3.20	1.15	1.02	1.10	1.13	1.31	1.23	
17	0.99	0.98	4.86	1.20	1.20	2.46	1.08	0.99	1.17	1.23	1.12	1.20	
18	1.03	0.89	2.92	1.25	1.31	2.55	1.25	1.04	1.17	1.29	1.13	1.22	
19	1.09	0.83	2.15	2.50	1.52	2.41	1.40	1.03	1.19	1.33	1.17	1.26	
20	1.03	0.75	2.53	3.57	1.72	2.51	1.41	1.10	1.33	1.39	1.21	1.28	
21	1.02	0.77	2.20	2.99	1.52	2.14	1.30	1.31	1.29	1.33	1.31	1.33	
22	1.08	0.90	2.04	2.41	1.42	1.83	1.17	1.36	1.32	1.23	1.30	1.28	
23	0.95	1.47	1.84	2.37	1.63	1.76	1.15	1.35	1.30	1.22	1.26	1.24	
24	0.88	1.50	2.58	2.41	1.72	1.83	1.15	1.34	1.29	1.25	1.32	1.31	
25	0.92	1.66	2.11	2.14	1.63	1.66	1.90	1.21	1.32	1.36	1.39	1.17	
26	0.95	1.49	1.84	2.09	1.70	1.58	1.73	1.27	1.50	1.38	1.52	1.02	
27	0.95	1.75	2.04	2.26	1.63	1.47	1.64	1.25	1.53	1.35	1.52	0.99	
28	1.03	1.55	1.86	2.00	1.77	1.38	1.57	1.22	1.49	1.35	1.44	1.17	
29	1.41	1.31	1.73	1.81	2.49	1.32	1.55	1.26	1.45	1.40		1.25	
30	1.15	1.25	2.10	1.69	3.33	1.79	1.55	1.26	1.50	1.64		1.22	
31		1.07		1.60	2.69		1.56		1.45	1.47		1.20	
MEAN	1.12	1.06	1.58	2.01	1.51	2.13	1.65	1.35	1.26	1.26	1.34	1.26	
MAX	1.50	1.75	4.86	3.57	3.33	3.68	4.09	2.10	1.53	1.54	1.52	1.49	4.86
MIN	0.85	0.75	0.75	1.20	0.98	1.32	1.08	0.99	0.82	0.97	1.12	0.99	0.75

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.26 M (A.D), AT 17.00 HOURS, ON JUN 17, 1980
ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.04 M (A.D)
LEFT BANK ELEVATION — 8.88 M (A.D)
RIGHT BANK ELEVATION — 8.87 M (A.D), DRAINAGE AREA 388 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	0.00	0.00	8.00	2.50	23.10	28.20	2.20	0.09	0.65	2.00	1.90	
2	2.00	0.00	0.00	4.40	2.80	8.90	31.20	1.30	0.00	2.40	1.80	1.40	
3	1.90	0.00	0.00	2.20	2.10	28.80	95.60	0.72	0.00	2.40	2.10	1.00	
4	0.27	0.00	0.00	21.00	0.58	26.10	44.15	2.00	0.00	1.60	2.20	0.72	
5	0.00	0.00	0.00	27.60	0.00	11.60	13.25	2.30	0.21	0.21	1.80	0.58	
6	0.00	0.00	0.00	12.05	0.00	24.30	6.20	22.50	0.58	0.44	1.70	0.58	
7	1.90	0.00	0.00	12.50	0.00	20.50	7.40	8.45	0.79	0.03	0.65	0.44	
8	0.51	0.00	0.00	34.20	0.00	7.10	4.60	4.80	0.72	0.00	0.15	0.18	
9	1.50	0.00	0.00	32.40	0.21	17.75	4.80	3.20	0.93	0.00	0.03	0.15	
10	0.79	0.00	0.00	24.30	0.18	33.90	2.70	2.60	0.03	0.00	0.15	0.27	
11	0.00	0.00	0.00	24.60	0.00	79.20	1.60	1.70	0.00	0.00	0.09	0.18	
12	0.00	0.00	0.00	7.40	0.00	46.95	1.00	0.65	0.00	0.00	0.00	0.21	
13	0.00	0.00	0.00	3.80	0.00	18.50	0.72	0.00	0.00	0.00	0.30	0.44	
14	0.00	0.00	0.00	2.50	0.00	9.35	0.18	0.00	0.00	0.00	1.00	0.0	
15	0.00	0.00	1.60	1.20	0.00	53.20	0.00	0.00	0.00	0.00	1.30	0.09	
16	0.00	0.00	0.00	0.21	0.00	60.00	0.00	0.00	0.00	0.00	0.37	0.09	
17	0.00	0.00	134.00	0.00	0.00	33.30	0.00	0.00	0.00	0.09	0.00	0.00	
18	0.00	0.00	48.80	0.15	0.37	36.00	0.15	0.00	0.00	0.27	0.00	0.06	
19	0.00	0.00	24.00	34.50	2.20	31.80	1.00	0.00	0.00	0.51	0.00	0.18	
20	0.00	0.00	35.40	74.80	5.60	34.80	1.10	0.00	0.51	0.93	0.03	0.24	
21	0.00	0.00	25.50	51.60	2.20	23.70	0.30	0.37	0.27	0.51	0.37	0.51	
22	0.00	0.00	21.00	31.80	1.20	9.35	0.00	0.72	0.44	0.09	0.30	0.24	
23	0.00	1.70	9.80	30.60	3.60	6.80	0.00	0.65	0.30	0.06	0.18	0.12	
24	0.00	2.00	36.90	31.80	5.60	9.35	0.00	0.58	0.27	0.18	0.44	0.37	
25	0.00	4.20	22.80	23.70	3.60	4.20	12.50	0.37	0.44	0.72	0.93	0.00	
26	0.00	1.90	9.80	22.25	5.00	2.50	5.90	0.21	2.00	0.86	2.20	0.00	
27	0.00	6.50	21.00	27.30	3.60	1.70	3.80	0.15	2.30	0.51	2.20	0.00	
28	0.00	2.50	10.70	20.00	7.10	0.86	2.70	0.06	1.90	0.72	1.40	0.00	
29	1.10	0.37	5.90	8.45	34.20	0.44	2.50	0.18	1.50	1.00		0.15	
30	0.00	0.15	22.50	4.80	65.20	7.70	2.50	0.18	2.00	1.40		0.06	
31		0.00		3.00	40.65		2.60		1.50	1.70		0.00	
TOTAL	11.47	19.32	429.70	583.11	188.49	671.75	276.65	56.49	16.78	17.28	23.69	10.16	2304.89 CMSDAY
MEAN	0.38	0.62	14.32	18.81	6.08	22.39	8.92	1.88	0.54	0.56	0.85	0.33	6.31 CMS
MAX	2.00	6.50	134.00	74.80	65.20	79.20	95.60	22.50	2.30	2.40	2.20	1.90	134.00 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.991	1.669	37.126	50.381	16.286	58.039	23.903	4.881	1.450	1.493	2.047	0.878	199.142 MCM

MOMENTARY PEAK 207.30 CMS, AT 6.26 M (A.D), AT 17.00 HOURS, ON JUN 17, 1980

RUNOFF YIELD 16.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 534.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

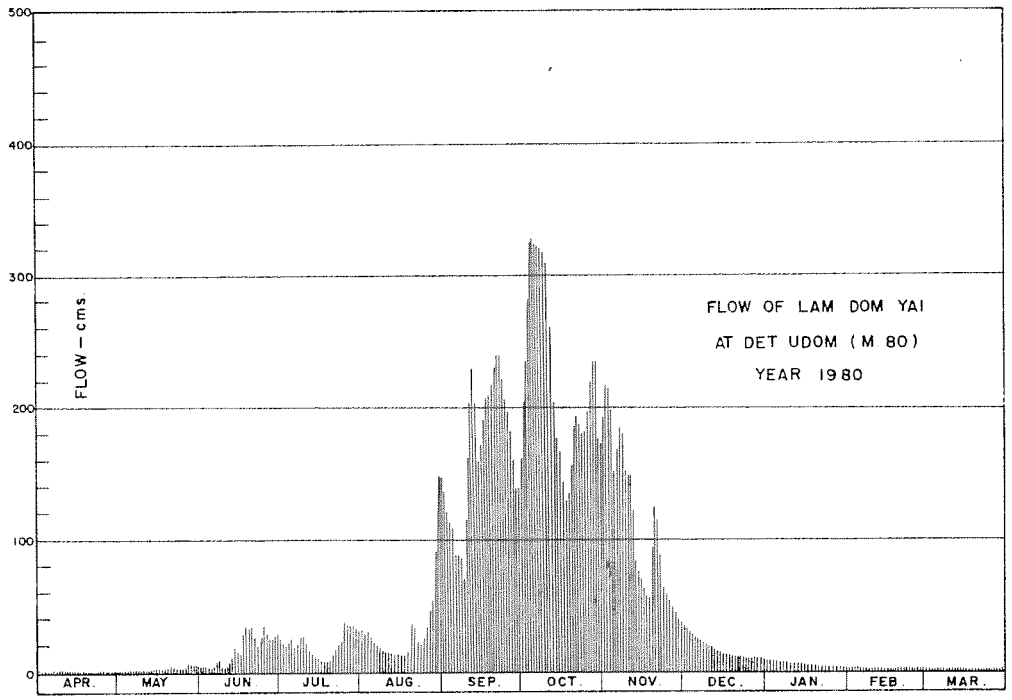
LAM DOM YAI AT DET UDOM, UBON RATCHATHANI (M.80)

LOCATION	LAT. 14°-53'-53" N., LONG. 105°-05'-08" E., ON LEFT BANK ABOUT 20 METERS DOWNSTREAM SIDE OF THE BRIDGE OF BAN THARIK ROAD, AMPHOE DET UDOM, UBON RATCHATHANI.
DRAINAGE AREA	3,363 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+11.826 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.60	0.92	1.83	2.06	4.83	5.25	5.82	2.12	1.17	0.87	0.75	
2	0.62	0.60	0.90	1.75	1.97	4.50	6.16	6.15	2.05	1.14	0.87	0.75	
3	0.62	0.60	0.89	1.73	1.96	4.20	7.34	6.10	1.99	1.11	0.87	0.76	
4	0.62	0.60	0.87	1.63	2.07	4.13	8.03	5.45	1.91	1.10	0.87	0.74	
5	0.62	0.60	0.92	1.79	1.90	3.94	8.10	4.89	1.87	1.09	0.88	0.74	
6	0.61	0.60	0.82	1.62	1.73	3.55	8.04	5.21	1.82	1.09	0.88	0.73	
7	0.60	0.60	1.12	1.60	1.65	3.59	8.02	5.60	1.78	1.08	0.87	0.73	
8	0.59	0.60	1.19	1.62	1.56	3.52	8.01	5.49	1.74	1.08	0.83	0.73	
9	0.67	0.61	1.00	1.83	1.43	3.11	7.91	4.90	1.70	1.08	0.83	0.73	
10	0.65	0.67	0.86	1.91	1.44	4.07	7.75	4.85	1.67	1.07	0.83	0.73	
11	0.64	0.68	0.85	1.78	1.46	5.93	7.46	4.86	1.63	1.06	0.83	0.72	
12	0.64	0.66	1.00	1.63	1.48	6.35	6.84	4.28	1.59	1.04	0.81	0.71	
13	0.64	0.66	1.33	1.46	1.40	5.69	5.86	3.50	1.51	1.04	0.81	0.70	
14	0.62	0.69	1.62	1.33	1.37	4.98	5.66	3.30	1.48	1.04	0.81	0.69	
15	0.60	0.81	1.54	1.25	1.39	5.13	5.54	3.23	1.46	1.03	0.80	0.69	
16	0.59	0.74	1.30	1.18	1.39	5.64	4.98	3.01	1.44	1.02	0.80	0.70	
17	0.60	0.69	1.88	1.13	1.34	5.95	4.64	2.81	1.42	1.01	0.80	0.69	
18	0.60	0.67	2.16	1.08	1.31	5.98	4.46	2.75	1.40	1.00	0.79	0.69	
19	0.60	0.71	2.06	1.08	1.45	6.06	4.57	3.60	1.37	0.99	0.78	0.69	
20	0.60	0.81	2.16	1.12	2.13	6.31	5.09	4.38	1.35	0.98	0.78	0.69	
21	0.60	0.88	2.01	1.21	2.21	6.53	5.59	4.15	1.31	0.97	0.78	0.69	
22	0.59	0.85	1.74	1.55	1.99	6.56	5.73	3.36	1.31	0.96	0.78	0.69	
23	0.59	0.80	1.63	1.65	1.71	6.48	5.57	3.03	1.29	0.98	0.78	0.69	
24	0.59	0.80	1.75	1.66	1.67	6.10	5.47	2.89	1.29	0.95	0.78	0.69	
25	0.59	0.82	2.15	1.83	1.86	5.86	5.57	2.78	1.28	0.94	0.78	0.69	
26	0.60	0.84	2.05	2.28	2.00	5.76	5.80	2.66	1.26	0.93	0.76	0.69	
27	0.60	1.02	1.84	2.19	2.52	5.46	6.20	2.53	1.26	0.93	0.75	0.70	
28	0.60	1.01	1.78	2.15	2.53	4.93	6.49	2.41	1.24	0.93	0.76	0.71	
29	0.60	1.01	1.93	2.17	2.93	4.57	6.49	2.31	1.24	0.91		0.70	
30	0.60	0.97	1.97	2.08	4.13	4.67	5.60	2.21	1.24	0.89		0.68	
31		0.95		2.00	4.84		5.51		1.23	0.88		0.70	
MEAN	0.61	0.75	1.47	1.65	1.97	5.15	6.25	3.95	1.52	1.02	0.81	0.71	
MAX	0.67	1.02	2.16	2.28	4.84	6.56	8.10	6.15	2.12	1.17	0.88	0.76	8.10
MIN	0.59	0.60	0.82	1.08	1.31	3.11	4.46	2.21	1.23	0.88	0.75	0.68	0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.11 M (A.D), AT 6.00 HOURS, ON OCT 5, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 13.64 M (A.D)
RIGHT BANK ELEVATION 12.45 M (A.D), DRAINAGE AREA 3363 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	0.80	4.64	25.90	32.80	147.50	168.50	198.60	34.60	9.40	3.85	2.20	
2	0.96	0.80	4.30	23.50	30.10	131.00	217.30	215.75	32.50	8.80	3.85	2.20	
3	0.96	0.80	4.15	22.90	29.80	117.00	282.20	214.00	30.70	8.20	3.85	2.32	
4	0.96	0.80	3.85	19.90	33.10	113.85	322.80	178.50	28.30	8.00	3.85	2.08	
5	0.96	0.80	4.64	24.70	29.00	105.30	327.00	150.50	27.10	7.80	4.00	2.08	
6	0.88	0.80	3.10	19.60	22.90	97.75	323.40	166.50	25.60	7.80	4.00	1.96	
7	0.80	0.80	8.40	19.00	20.50	89.55	322.20	186.50	24.40	7.60	3.85	1.96	
8	0.72	0.80	9.80	19.60	18.00	86.40	321.60	180.50	23.20	7.60	3.25	1.96	
9	1.36	0.88	6.00	25.90	16.00	69.40	315.60	151.00	22.00	7.60	3.25	1.96	
10	1.20	1.36	3.70	28.30	15.00	111.15	306.00	148.50	21.10	7.40	3.25	1.96	
11	1.12	1.44	3.55	24.40	15.50	204.65	288.80	150.00	19.90	7.20	3.25	1.84	
12	1.12	1.28	6.00	19.90	16.00	227.75	254.70	120.60	18.75	6.50	2.95	1.72	
13	1.12	1.28	12.60	15.50	14.00	191.45	200.80	85.50	16.75	6.80	2.95	1.60	
14	0.96	1.52	19.60	12.60	13.40	155.00	189.80	77.00	16.00	6.80	2.95	1.52	
15	0.80	2.95	17.50	11.00	13.80	162.50	183.20	74.20	15.50	6.60	2.80	1.52	
16	0.72	2.08	12.00	9.60	13.80	188.70	155.00	65.40	15.00	6.40	2.80	1.60	
17	0.80	1.52	27.40	8.60	12.80	205.75	138.00	57.85	14.50	6.20	2.80	1.52	
18	0.80	1.36	35.80	7.60	12.20	207.40	129.00	55.75	14.00	6.00	2.68	1.52	
19	0.80	1.72	32.80	7.60	15.25	211.80	134.50	90.00	13.40	5.83	2.56	1.52	
20	0.80	2.95	35.80	8.40	34.90	225.55	160.50	125.10	13.00	5.66	2.56	1.52	
21	0.80	4.00	31.30	10.20	37.30	237.65	185.95	114.75	12.20	5.49	2.56	1.52	
22	0.72	3.55	23.20	17.75	30.70	239.30	193.65	79.40	12.20	5.32	2.56	1.52	
23	0.72	2.80	19.90	20.50	22.30	234.90	184.85	66.20	11.80	5.66	2.56	1.52	
24	0.72	2.80	23.50	20.80	21.10	214.00	179.50	60.65	11.80	5.15	2.56	1.52	
25	0.72	3.10	35.50	25.90	26.80	200.80	184.85	56.80	11.60	4.98	2.56	1.52	
26	0.80	3.40	32.50	39.40	31.00	195.30	197.50	52.60	11.20	4.81	2.32	1.52	
27	0.80	6.40	26.20	36.70	47.70	179.00	219.50	48.05	11.20	4.81	2.20	1.60	
28	0.80	6.20	24.40	35.50	48.05	152.50	235.45	43.85	10.80	4.81	2.32	1.72	
29	0.80	6.20	28.90	36.10	62.20	134.50	235.45	40.35	10.80	4.47		1.60	
30	0.80	5.49	30.10	33.40	113.85	139.50	186.50	37.30	10.80	4.15		1.44	
31		5.15		31.00	148.00		181.55		10.60	4.00		1.60	
TOTAL	26.48	75.83	531.13	661.75	996.85	4966.90	6925.64	3292.70	551.30	198.14	84.94	53.64	18365.28 CMSDAY
MEAN	0.88	2.45	17.70	21.35	32.16	165.56	223.41	109.76	17.78	6.39	3.03	1.73	50.32 CMS
MAX	1.36	6.40	35.80	39.40	148.00	239.30	327.00	216.75	34.60	9.40	4.00	2.32	327.00 CMS
MIN	0.72	0.80	3.10	7.60	12.20	69.40	129.00	37.30	10.60	4.00	2.20	1.44	0.72 CMS
RUNOFF	2.288	6.552	45.890	57.175	86.128	429.140	598.376	284.489	47.632	17.119	7.339	4.634	1586.760 MCM

MOMENTARY PEAK 327.60 CMS, AT 8.11 M (A.D), AT 6.00 HOURS, ON OCT 5, 1980

RUNOFF YIELD 14.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 97.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

LAM SAE AT BAN MAP KRAT, NAKHON RATCHASIMA (M.81A)

LOCATION — LAT. 14°-22'-22" N., LONG. 102°-15'-40" E., ON RIGHT BANK ABOUT 4 KILOMETERS UPSTREAM FROM M.81 STATION AT BAN MAP KRAT, TAMBON KHOK KRA CHAI, AMPHOE KHON BURI, NAKHON RATCHASIMA.

DRAINAGE AREA — 433 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +209.767 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — BESIDE THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +216.857 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1970 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1970 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1970 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

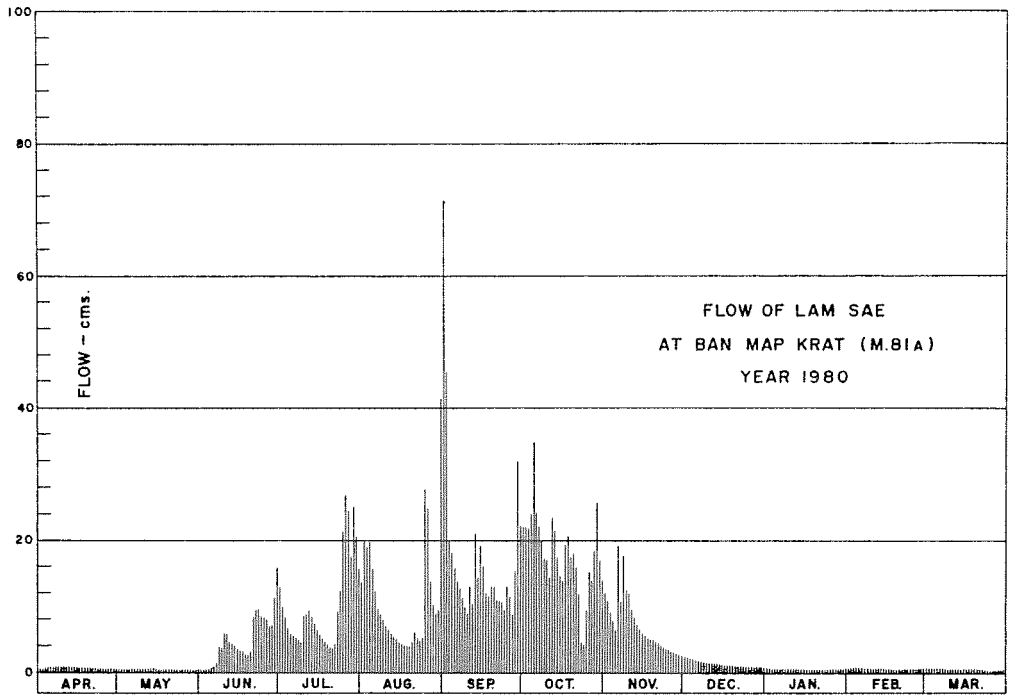
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 133 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	210.04	210.12	210.14	212.28	212.36	214.56	212.65	212.24	211.01	210.38	210.33	210.34	
2	210.14	210.11	210.17	212.09	212.76	213.27	212.85	212.17	211.00	210.37	210.34	210.41	
3	210.16	210.11	210.11	211.89	212.66	212.81	212.85	212.09	210.96	210.37	210.44	210.40	
4	210.21	210.10	210.13	211.77	212.73	212.60	212.93	211.91	210.92	210.37	210.43	210.35	
5	210.25	210.10	210.25	211.67	212.46	212.51	213.45	211.77	210.87	210.37	210.42	210.33	
6	210.29	210.10	210.50	211.64	212.23	212.37	212.94	212.70	210.85	210.37	210.43	210.31	
7	210.31	210.10	210.69	211.62	212.09	212.32	212.86	212.23	210.81	210.36	210.43	210.31	
8	210.35	210.10	211.33	211.55	211.99	212.19	212.75	212.60	210.78	210.35	210.43	210.30	
9	210.36	210.11	211.34	211.46	211.90	212.09	212.56	212.28	210.74	210.34	210.42	210.30	
10	210.36	210.11	211.68	211.98	211.83	212.03	212.56	212.24	210.72	210.34	210.42	210.30	
11	210.38	210.10	211.69	211.99	211.76	212.30	212.39	212.05	210.70	210.34	210.42	210.33	
12	210.39	210.13	211.51	212.06	211.76	212.12	212.74	211.93	210.68	210.33	210.40	210.35	
13	210.39	210.21	211.44	211.97	211.62	212.80	212.92	211.84	210.66	210.32	210.39	210.39	
14	210.39	210.20	211.34	211.86	211.54	212.40	212.62	211.77	210.64	210.31	210.39	210.38	
15	210.38	210.15	211.23	211.76	211.49	212.70	212.43	211.70	210.63	210.31	210.38	210.35	
16	210.36	210.09	211.22	211.68	211.48	212.47	212.37	211.65	210.62	210.29	210.37	210.33	
17	210.34	210.04	211.17	211.62	211.43	212.23	212.71	211.60	210.59	210.28	210.37	210.31	
18	210.33	209.98	211.09	211.53	211.39	212.21	212.78	211.57	210.56	210.27	210.38	210.30	
19	210.33	209.93	211.05	211.45	211.39	212.31	212.54	211.57	210.53	210.27	210.39	210.29	
20	210.33	209.91	211.16	211.37	211.37	212.31	212.66	211.54	210.52	210.27	210.39	210.29	
21	210.32	209.91	211.94	211.30	211.69	212.18	212.50	211.48	210.51	210.29	210.39	210.29	
22	210.24	209.91	212.06	211.40	211.67	212.16	212.29	211.42	210.49	210.32	210.39	210.27	
23	210.17	209.92	212.05	211.90	211.56	212.14	211.52	211.36	210.48	210.33	210.39	210.25	
24	210.19	209.92	211.96	212.38	211.59	212.05	211.34	211.30	210.46	210.34	210.39	210.24	
25	210.21	209.91	211.96	212.82	213.11	212.30	212.01	211.27	210.45	210.32	210.39	210.17	
26	210.21	209.91	211.92	213.06	212.97	212.19	212.45	211.23	210.42	210.31	210.38	210.15	
27	210.20	209.92	211.81	212.92	212.35	211.99	212.37	211.18	210.41	210.31	210.37	210.16	
28	210.20	209.95	211.83	212.60	212.12	212.94	212.65	211.13	210.40	210.31	210.36	210.21	
29	210.19	209.97	212.19	212.99	211.97	213.30	213.02	211.10	210.40	210.31		210.27	
30	210.14	210.10	212.49	212.70	212.03	212.86	212.59	211.05	210.39	210.31		210.30	
31		210.16		212.49	212.88		212.37		210.38	210.33		210.30	
MEAN	210.27	210.04	211.31	211.99	212.00	212.49	212.56	211.73	210.63	210.33	210.39	210.30	
MAX	210.39	210.21	212.49	213.06	213.11	214.56	213.45	212.70	211.01	210.38	210.44	210.41	214.56
MIN	210.04	209.91	210.11	211.30	211.37	211.99	211.34	211.05	210.38	210.27	210.33	210.15	209.91

ANNUAL MAX MOMENTARY GAGE HEIGHT 215.46 M (MSL), AT 6.00 HOURS, ON SEP 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 209.77 M (MSL), RIVER BED 208.77 M (MSL)
LEFT BANK ELEVATION 217.01 M (MSL)
RIGHT BANK ELEVATION 216.54 M (MSL), DRAINAGE AREA 433 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.32	0.34	12.52	13.76	71.19	22.00	11.96	2.44	0.76	0.66	0.68	
2	0.34	0.31	0.37	9.97	20.28	31.14	22.00	11.01	2.40	0.74	0.68	0.82	
3	0.36	0.31	0.31	7.70	18.88	21.20	22.00	9.97	2.28	0.74	0.88	0.80	
4	0.42	0.30	0.33	6.56	19.74	17.60	23.66	7.90	2.16	0.74	0.84	0.70	
5	0.50	0.30	0.50	5.76	15.36	16.16	35.10	6.56	2.01	0.74	0.84	0.66	
6	0.58	0.30	1.00	5.52	11.82	13.92	23.88	19.20	1.95	0.74	0.86	0.62	
7	0.62	0.30	1.47	5.36	9.97	13.12	22.20	11.82	1.83	0.72	0.86	0.62	
8	0.70	0.30	3.72	4.90	8.70	11.27	20.10	17.60	1.74	0.70	0.86	0.60	
9	0.72	0.31	3.76	4.36	7.80	9.97	16.96	12.52	1.62	0.68	0.84	0.60	
10	0.72	0.31	5.84	8.60	7.10	9.19	16.96	11.96	1.56	0.68	0.84	0.60	
11	0.76	0.30	5.92	8.70	6.48	12.80	14.24	9.45	1.50	0.66	0.84	0.66	
12	0.78	0.33	4.66	9.58	6.00	10.36	19.92	8.10	1.44	0.66	0.80	0.70	
13	0.78	0.42	4.24	8.50	5.36	21.00	23.44	7.20	1.38	0.64	0.78	0.78	
14	0.78	0.40	3.76	7.40	4.84	14.40	17.92	6.56	1.32	0.62	0.78	0.76	
15	0.76	0.35	3.32	6.48	4.54	19.20	14.66	6.00	1.29	0.62	0.76	0.70	
16	0.72	0.29	3.28	5.84	4.48	15.52	13.92	5.60	1.26	0.58	0.74	0.66	
17	0.68	0.24	3.08	5.36	4.18	11.82	19.38	5.20	1.18	0.56	0.74	0.62	
18	0.66	0.18	2.76	4.78	3.96	11.54	20.64	5.02	1.12	0.54	0.76	0.60	
19	0.66	0.13	2.60	4.30	3.96	12.96	16.64	5.02	1.06	0.54	0.78	0.56	
20	0.66	0.11	3.04	3.88	3.88	12.96	18.56	4.84	1.04	0.54	0.78	0.58	
21	0.64	0.11	8.20	3.60	5.92	11.14	16.00	4.48	1.02	0.58	0.78	0.58	
22	0.48	0.11	9.58	4.00	5.76	10.88	12.66	4.12	0.98	0.64	0.78	0.54	
23	0.37	0.12	9.45	7.80	4.96	10.62	4.72	3.84	0.96	0.66	0.78	0.50	
24	0.39	0.12	8.40	14.08	5.14	9.45	3.76	3.60	0.92	0.68	0.78	0.48	
25	0.42	0.11	8.40	21.40	27.62	12.80	8.93	3.48	0.90	0.64	0.78	0.37	
26	0.42	0.11	8.00	26.52	24.54	11.27	15.20	3.32	0.84	0.62	0.76	0.35	
27	0.40	0.12	6.90	23.44	13.60	8.70	13.92	3.12	0.82	0.62	0.74	0.36	
28	0.40	0.15	7.10	17.60	10.36	23.88	18.40	2.92	0.80	0.62	0.72	0.42	
29	0.39	0.17	11.27	24.98	8.50	31.60	25.64	2.80	0.80	0.62		0.54	
30	0.34	0.30	15.84	19.20	9.19	22.20	17.44	2.60	0.78	0.62		0.60	
31		0.36		15.84	22.60		13.92		0.76	0.66		0.60	
TOTAL	16.69	7.59	147.44	314.53	319.28	510.06	554.99	217.77	42.16	20.18	22.04	18.68	2191.41 CMSDAY
MEAN	0.56	0.24	4.91	10.15	10.30	17.00	17.90	7.26	1.36	0.65	0.79	0.60	6.00 CMS
MAX	0.78	0.42	15.84	26.52	27.62	71.19	35.10	19.20	2.44	0.76	0.88	0.82	71.19 CMS
MIN	0.24	0.11	0.31	3.60	3.88	8.70	3.76	2.60	0.76	0.54	0.66	0.35	0.11 CMS
RUNOFF	1.442	0.656	12.739	27.175	27.586	44.069	47.951	18.815	3.643	1.744	1.904	1.614	189.337 MCM

MOMENTARY PEAK 112.16 CMS, AT 215.46 M (MSL), AT 6.00 HOURS, ON SEP 1, 1980

RUNOFF YIELD 13.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 259.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

LAM TAKHONG AT PAK CHONG, NAKHON RATCHASIMA (M.89)

LOCATION — LAT. 14°-41'-46" N., LONG. 101°-25'-07" E., ON LEFT BANK AT THE BRIDGE INFRONT OF VACCINE SERUM OFFICE, AMPHOE PAK CHONG, NAKHON RATCHASIMA.

DRAINAGE AREA — 699 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +8.909 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1970 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

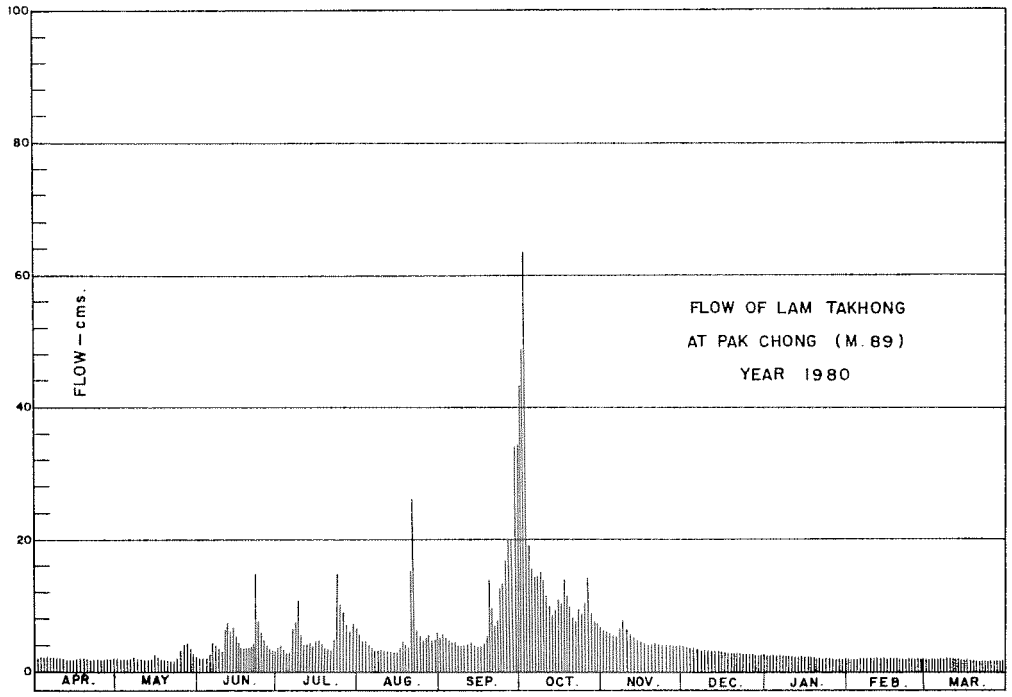
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	1.19	1.21	1.30	1.45	1.39	3.37	1.53	1.33	1.24	1.20	1.21	
2	1.18	1.18	1.19	1.35	1.40	1.46	4.13	1.50	1.31	1.24	1.20	1.21	
3	1.18	1.17	1.19	1.30	1.38	1.43	2.67	1.48	1.30	1.24	1.20	1.21	
4	1.18	1.17	1.19	1.27	1.39	1.39	2.24	1.45	1.30	1.23	1.20	1.20	
5	1.22	1.17	1.23	1.26	1.36	1.38	2.10	1.45	1.30	1.23	1.20	1.21	
6	1.20	1.17	1.36	1.25	1.31	1.39	1.97	1.44	1.30	1.23	1.20	1.20	
7	1.19	1.21	1.36	1.51	1.29	1.37	1.98	1.48	1.29	1.23	1.20	1.20	
8	1.20	1.20	1.32	1.50	1.29	1.34	1.91	1.62	1.29	1.22	1.20	1.20	
9	1.22	1.20	1.28	1.78	1.29	1.33	2.02	1.60	1.28	1.22	1.20	1.20	
10	1.18	1.18	1.26	1.47	1.29	1.33	1.89	1.51	1.28	1.22	1.20	1.20	
11	1.17	1.19	1.46	1.39	1.28	1.35	1.77	1.46	1.28	1.22	1.20	1.20	
12	1.17	1.18	1.58	1.33	1.28	1.38	1.70	1.45	1.28	1.22	1.20	1.19	
13	1.17	1.17	1.44	1.36	1.26	1.34	1.65	1.43	1.28	1.22	1.20	1.19	
14	1.17	1.18	1.55	1.34	1.27	1.33	1.67	1.40	1.28	1.22	1.20	1.20	
15	1.17	1.20	1.46	1.33	1.27	1.30	1.77	1.40	1.27	1.22	1.20	1.20	
16	1.17	1.25	1.36	1.40	1.27	1.34	1.73	1.38	1.27	1.21	1.20	1.19	
17	1.21	1.20	1.32	1.40	1.33	1.37	1.85	1.37	1.27	1.21	1.19	1.19	
18	1.18	1.18	1.30	1.36	1.40	1.35	1.96	1.37	1.27	1.21	1.19	1.18	
19	1.18	1.18	1.31	1.32	1.33	1.95	1.76	1.37	1.27	1.21	1.19	1.18	
20	1.19	1.18	1.30	1.29	1.32	1.69	1.66	1.37	1.26	1.20	1.19	1.18	
21	1.17	1.16	1.32	1.29	2.07	1.57	1.61	1.37	1.26	1.20	1.19	1.18	
22	1.17	1.17	1.34	1.29	1.73	1.56	1.58	1.36	1.26	1.20	1.19	1.18	
23	1.19	1.17	2.01	1.42	1.51	1.87	1.69	1.36	1.25	1.20	1.19	1.17	
24	1.18	1.17	1.60	2.01	1.43	1.90	1.66	1.36	1.25	1.20	1.19	1.17	
25	1.18	1.26	1.47	1.75	1.39	2.05	1.81	1.35	1.25	1.20	1.19	1.17	
26	1.18	1.33	1.40	1.68	1.40	2.27	1.96	1.35	1.25	1.19	1.19	1.17	
27	1.18	1.35	1.36	1.58	1.45	2.27	1.79	1.34	1.25	1.19	1.19	1.18	
28	1.18	1.38	1.32	1.50	1.41	2.28	1.66	1.34	1.25	1.21	1.20	1.18	
29	1.19	1.31	1.29	1.49	1.37	2.94	1.60	1.34	1.25	1.20		1.18	
30	1.19	1.27	1.27	1.56	1.39	2.92	1.56	1.33	1.24	1.19		1.18	
31		1.22		1.55	1.48		1.54		1.24	1.19		1.18	
MEAN	1.18	1.21	1.37	1.44	1.39	1.66	1.94	1.42	1.27	1.21	1.20	1.19	
MAX	1.22	1.38	2.01	2.01	2.07	2.94	4.13	1.62	1.33	1.24	1.20	1.21	4.13
MIN	1.17	1.16	1.19	1.25	1.26	1.30	1.54	1.33	1.24	1.19	1.19	1.17	1.16

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.63 M (A.D), AT 9.00 HOURS, ON OCT 2, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.04 M (A.D)

LEFT BANK ELEVATION — 8.97 M (A.D)

RIGHT BANK ELEVATION — 8.90 M (A.D), DRAINAGE AREA — 699 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.20	2.08	2.34	3.60	5.70	4.86	44.48	6.62	4.02	2.76	2.20	2.34	
2	1.96	1.96	2.08	4.30	5.00	5.84	63.38	6.40	3.74	2.76	2.20	2.34	
3	1.96	1.84	2.08	3.60	4.72	5.42	28.54	6.12	3.60	2.76	2.20	2.34	
4	1.96	1.84	2.08	3.18	4.86	4.86	19.40	5.70	3.60	2.62	2.20	2.20	
5	2.48	1.84	2.62	3.04	4.44	4.72	16.80	5.70	3.60	2.62	2.20	2.34	
6	2.20	1.84	4.44	2.90	3.74	4.86	14.46	5.56	3.60	2.62	2.20	2.20	
7	2.08	2.34	4.44	6.54	3.46	4.58	14.64	6.12	3.46	2.62	2.20	2.20	
8	2.20	2.20	3.88	6.40	3.46	4.16	13.38	8.16	3.46	2.48	2.20	2.20	
9	2.48	2.20	3.32	11.04	3.46	4.02	15.36	7.80	3.32	2.48	2.20	2.20	
10	1.96	1.96	3.04	5.98	3.46	4.02	13.02	6.54	3.32	2.48	2.20	2.20	
11	1.84	2.08	5.84	4.86	3.32	4.30	10.86	5.84	3.32	2.48	2.20	2.20	
12	1.84	1.96	7.52	4.02	3.32	4.72	9.60	5.70	3.32	2.48	2.20	2.08	
13	1.84	1.84	5.56	4.44	3.04	4.16	8.70	5.42	3.32	2.48	2.20	2.08	
14	1.84	1.96	7.10	4.16	3.18	4.02	9.06	5.00	3.32	2.48	2.20	2.20	
15	1.84	2.20	5.84	4.02	3.18	3.60	10.86	5.00	3.18	2.48	2.20	2.20	
16	1.84	2.90	4.44	5.00	3.18	4.16	10.14	4.72	3.18	2.34	2.20	2.08	
17	2.34	2.20	3.88	5.00	4.02	4.58	12.30	4.58	3.18	2.34	2.08	2.08	
18	1.96	1.96	3.60	4.44	5.00	4.30	14.28	4.58	3.18	2.34	2.08	1.96	
19	1.96	1.96	3.74	3.88	4.02	14.10	10.68	4.58	3.18	2.34	2.08	1.96	
20	2.08	1.96	3.60	3.46	3.88	9.42	8.88	4.58	3.04	2.20	2.08	1.96	
21	1.84	1.72	3.88	3.46	16.26	7.38	7.98	4.58	3.04	2.20	2.08	1.96	
22	1.84	1.84	4.16	3.46	10.14	7.24	7.52	4.44	3.04	2.20	2.08	1.96	
23	2.08	1.84	15.18	5.28	6.54	12.66	9.42	4.44	2.90	2.20	2.08	1.84	
24	1.96	1.84	7.80	15.18	5.42	13.20	8.88	4.44	2.90	2.20	2.08	1.84	
25	1.96	3.04	5.98	10.50	4.86	15.90	11.58	4.30	2.90	2.20	2.08	1.84	
26	1.96	4.02	5.00	9.24	5.00	20.00	14.28	4.30	2.90	2.08	2.08	1.84	
27	1.96	4.30	4.44	7.52	5.70	20.00	11.22	4.16	2.90	2.08	2.08	1.96	
28	1.96	4.72	3.88	6.40	5.14	20.20	8.88	4.16	2.90	2.34	2.20	1.96	
29	2.08	3.74	3.46	6.26	4.58	34.48	7.80	4.16	2.90	2.20		1.96	
30	2.08	3.18	3.18	7.24	4.86	34.04	7.24	4.02	2.76	2.08		1.96	
31		2.48		7.10	6.12		6.96		2.76	2.08		1.96	
TOTAL	60.58	73.84	138.40	175.50	153.06	289.80	450.58	157.92	99.84	74.02	60.28	64.44	1798.26 CMSDAY
MEAN	2.02	2.38	4.61	5.66	4.94	9.66	14.53	5.26	3.22	2.39	2.15	2.08	4.93 CMS
MAX	2.48	4.72	15.18	15.18	16.26	34.48	63.38	8.16	4.02	2.76	2.20	2.34	63.38 CMS
MIN	1.84	1.72	2.08	2.90	3.04	3.60	6.96	4.02	2.76	2.08	2.08	1.84	1.72 CMS
RUNOFF	5.234	6.380	11.958	15.163	13.224	25.039	38.930	13.644	8.626	6.395	5.208	5.568	155.369 MCM

MOMENTARY PEAK 76.71 CMS, AT 4.63 M (A.D), AT 9.00 HOURS, ON OCT 2, 1980

RUNOFF YIELD 7.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 109.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI SAMRAN AT BAN TAMUAN, SI SA KET (M.91)

LOCATION — LAT. 14°-29'-48" N., LONG. 104°-03'-29" E., ON RIGHT BANK ABOUT 15 KILOMETERS FROM THE HIGHWAY AT BAN TAMUAN, TAMBON LALOM, AMPHOE KHUKHAN, SI SA KET.

DRAINAGE AREA — 128 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ON RIGHT BANK ABOUT 1.50 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +8.051 M.(A.D.)

GAGE READING FREQUENCY — 3-TIME DAILY READINGS AT 09.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977-1978

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977-1978

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

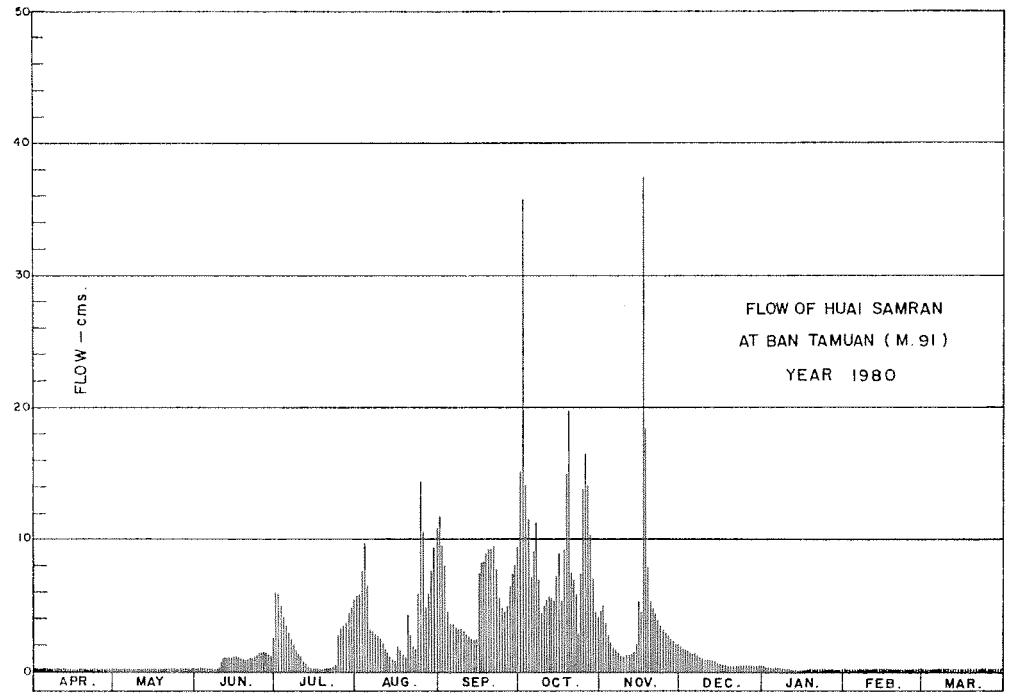
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.11	0.10	0.66	1.99	1.93	2.58	2.23	1.85	1.30	0.73	0.46	0.25	
2	0.11	0.10	0.65	1.95	1.96	2.34	4.44	1.76	1.27	0.72	0.45	0.25	
3	0.11	0.10	0.65	1.85	2.14	2.17	2.86	1.60	1.24	0.71	0.43	0.25	
4	0.11	0.10	0.65	1.78	2.37	1.86	2.57	1.44	1.21	0.71	0.40	0.25	
5	0.11	0.10	0.63	1.64	1.63	1.64	2.32	1.35	1.20	0.71	0.40	0.27	
6	0.10	0.10	0.63	1.55	1.59	1.63	1.86	1.27	1.15	0.69	0.39	0.29	
7	0.11	0.10	0.63	1.49	1.55	1.60	3.44	1.21	1.10	0.67	0.38	0.29	
8	0.11	0.11	0.63	1.37	1.51	1.60	2.23	1.20	1.05	0.67	0.38	0.29	
9	0.11	0.11	0.67	1.27	1.48	1.58	1.74	1.11	1.01	0.65	0.37	0.29	
10	0.11	0.11	0.67	1.14	1.41	1.56	1.79	1.14	1.00	0.65	0.37	0.27	
11	0.11	0.10	1.11	1.05	1.33	1.54	1.87	1.11	1.02	0.63	0.37	0.27	
12	0.12	0.10	1.10	0.93	1.25	1.48	1.95	1.17	1.00	0.63	0.37	0.31	
13	0.13	0.11	1.04	0.81	1.09	1.45	2.27	1.22	0.97	0.61	0.37	0.35	
14	0.13	0.11	1.06	0.68	1.06	1.42	1.87	1.24	0.92	0.61	0.35	0.40	
15	0.13	0.12	1.12	0.65	0.89	1.41	2.10	1.89	0.88	0.60	0.35	0.40	
16	0.13	0.12	1.11	0.64	1.31	2.13	2.30	1.74	0.81	0.58	0.32	0.40	
17	0.12	0.16	1.06	0.60	1.27	2.24	1.86	4.55	0.80	0.56	0.32	0.40	
18	0.12	0.18	1.05	0.59	1.18	2.24	2.18	2.45	0.81	0.55	0.32	0.40	
19	0.12	0.21	0.97	0.62	1.00	2.34	3.31	1.96	0.80	0.55	0.31	0.39	
20	0.12	0.32	0.96	0.64	1.77	2.34	2.15	1.84	0.80	0.54	0.31	0.39	
21	0.12	0.40	1.07	0.67	1.51	2.37	2.16	1.79	0.78	0.54	0.30	0.39	
22	0.12	0.59	1.08	0.78	1.31	2.21	2.01	1.72	0.78	0.52	0.28	0.39	
23	0.12	0.62	1.07	0.76	1.22	1.97	1.15	1.64	0.77	0.52	0.28	0.38	
24	0.12	0.61	1.12	0.78	1.97	1.85	1.88	1.59	0.76	0.52	0.27	0.38	
25	0.11	0.60	1.17	1.50	2.83	1.76	2.77	1.50	0.76	0.50	0.35	0.38	
26	0.11	0.57	1.20	1.62	2.19	1.85	3.03	1.50	0.77	0.51	0.30	0.38	
27	0.11	0.57	1.18	1.63	1.76	1.88	2.57	1.45	0.77	0.50	0.27	0.41	
28	0.11	0.54	1.15	1.65	2.04	2.15	2.24	1.40	0.79	0.50	0.25	0.45	
29	0.11	0.53	1.12	1.77	2.20	2.12	1.96	1.35	0.78	0.48		0.44	
30	0.11	0.52	1.06	1.84	2.35	2.35	1.73	1.34	0.76	0.48		0.43	
31		0.51		1.92	2.46		1.67		0.74	0.46		0.43	
MEAN	0.12	0.28	0.94	1.23	1.66	1.92	2.27	1.61	0.93	0.59	0.35	0.35	
MAX	0.13	0.62	1.20	1.99	2.83	2.58	4.44	4.55	1.30	0.73	0.46	0.45	4.55
MIN	0.10	0.10	0.63	0.59	0.89	1.41	1.15	1.11	0.74	0.46	0.25	0.25	0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.35 M (A.D), AT 18.00 HOURS, ON NOV 17, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.02 M (A.D)
LEFT BANK ELEVATION 7.69 M (A.D)
RIGHT BANK ELEVATION 8.19 M (A.D), DRAINAGE AREA 122 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.29	6.12	5.64	11.70	8.20	5.05	1.90	0.39	0.03	0.00	
2	0.00	0.00	0.27	5.80	5.88	9.30	35.80	4.42	1.78	0.38	0.02	0.00	
3	0.00	0.00	0.27	5.05	7.36	7.63	14.56	3.30	1.66	0.36	0.01	0.00	
4	0.00	0.00	0.27	4.56	9.60	5.12	11.60	2.50	1.54	0.36	0.00	0.00	
5	0.00	0.00	0.24	3.58	3.51	3.58	9.10	2.10	1.50	0.36	0.00	0.00	
6	0.00	0.00	0.24	3.05	3.25	3.51	5.12	1.78	1.35	0.33	0.00	0.00	
7	0.00	0.00	0.24	2.75	3.05	3.30	21.32	1.54	1.20	0.30	0.00	0.00	
8	0.00	0.00	0.24	2.18	2.85	3.30	8.20	1.50	1.05	0.30	0.00	0.00	
9	0.00	0.00	0.30	1.78	2.70	3.20	4.28	1.23	0.93	0.27	0.00	0.00	
10	0.00	0.00	0.30	1.32	2.35	3.10	4.63	1.32	0.90	0.27	0.00	0.00	
11	0.00	0.00	1.23	1.05	2.02	3.00	5.19	1.23	0.96	0.24	0.00	0.00	
12	0.00	0.00	1.20	0.76	1.70	2.70	5.80	1.41	0.90	0.24	0.00	0.00	
13	0.00	0.00	1.02	0.52	1.17	2.55	8.60	1.58	0.84	0.21	0.00	0.00	
14	0.00	0.00	1.08	0.32	1.08	2.40	5.19	1.66	0.74	0.21	0.00	0.00	
15	0.00	0.00	1.26	0.27	0.68	2.35	7.00	5.33	0.66	0.20	0.00	0.00	
16	0.00	0.00	1.23	0.26	1.94	7.27	8.90	4.28	0.52	0.17	0.00	0.00	
17	0.00	0.00	1.08	0.20	1.78	8.30	5.12	37.45	0.50	0.14	0.00	0.00	
18	0.00	0.00	1.05	0.18	1.44	8.30	7.72	10.40	0.52	0.12	0.00	0.00	
19	0.00	0.00	0.84	0.23	0.90	9.30	19.72	5.88	0.50	0.12	0.00	0.00	
20	0.00	0.00	0.82	0.26	4.49	9.30	7.45	4.98	0.50	0.11	0.00	0.00	
21	0.00	0.00	1.11	0.30	2.85	9.60	7.54	4.63	0.47	0.11	0.00	0.00	
22	0.00	0.18	1.14	0.47	1.94	8.00	6.28	4.14	0.47	0.08	0.00	0.00	
23	0.00	0.23	1.11	0.44	1.58	5.96	1.35	3.58	0.45	0.08	0.00	0.00	
24	0.00	0.21	1.26	0.47	5.96	5.05	5.26	3.25	0.44	0.08	0.00	0.00	
25	0.00	0.20	1.41	2.80	14.33	4.42	13.67	2.80	0.44	0.05	0.00	0.00	
26	0.00	0.15	1.50	3.44	7.81	5.05	16.53	2.80	0.45	0.06	0.00	0.00	
27	0.00	0.15	1.44	3.51	4.42	5.26	11.60	2.55	0.45	0.05	0.00	0.00	
28	0.00	0.11	1.35	3.65	6.52	7.45	8.30	2.30	0.48	0.05	0.00	0.02	
29	0.00	0.09	1.26	4.49	7.90	7.18	5.88	2.10	0.47	0.04		0.02	
30	0.00	0.08	1.08	4.98	9.40	9.40	4.21	2.06	0.44	0.04		0.01	
31		0.06		5.56	10.50		3.79		0.41	0.03		0.01	
TOTAL	0.00	1.46	26.13	70.35	136.60	176.58	288.01	129.15	25.42	5.75	0.06	0.06	859.57 CMSDAY
MEAN	0.00	0.05	0.87	2.27	4.41	5.89	9.29	4.30	0.82	0.19	0.00	0.00	2.35 CMS
MAX	0.00	0.23	1.50	6.12	14.33	11.70	35.80	37.45	1.90	0.39	0.03	0.02	37.45 CMS
MIN	0.00	0.00	0.24	0.18	0.68	2.35	1.35	1.23	0.41	0.03	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.126	2.258	6.078	11.802	15.256	24.884	11.159	2.196	0.497	0.005	0.005	74.267 MCM

MOMENTARY PEAK 59.50 CMS, AT 5.35 M (A.D), AT 18.00 HOURS, ON NOV 17, 1980

RUNOFF YIELD 19.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 487.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

LAM PHANG CHU AT BAN HUA SAPHAN, BURI RAM (M.92)

LOCATION — LAT. 15°-32'-57" N., LONG. 103°-04'-20" E., ON RIGHT BANK EAST OF WAT THEP RANG SAN AT BAN HUA SAPHAN, AMPHOE PHUTTHAISONG, BURI RAM.

DRAINAGE AREA — 1,094 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 80 METERS FROM THE GAGE SITE.

ELEVATION — +7.958 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 108 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

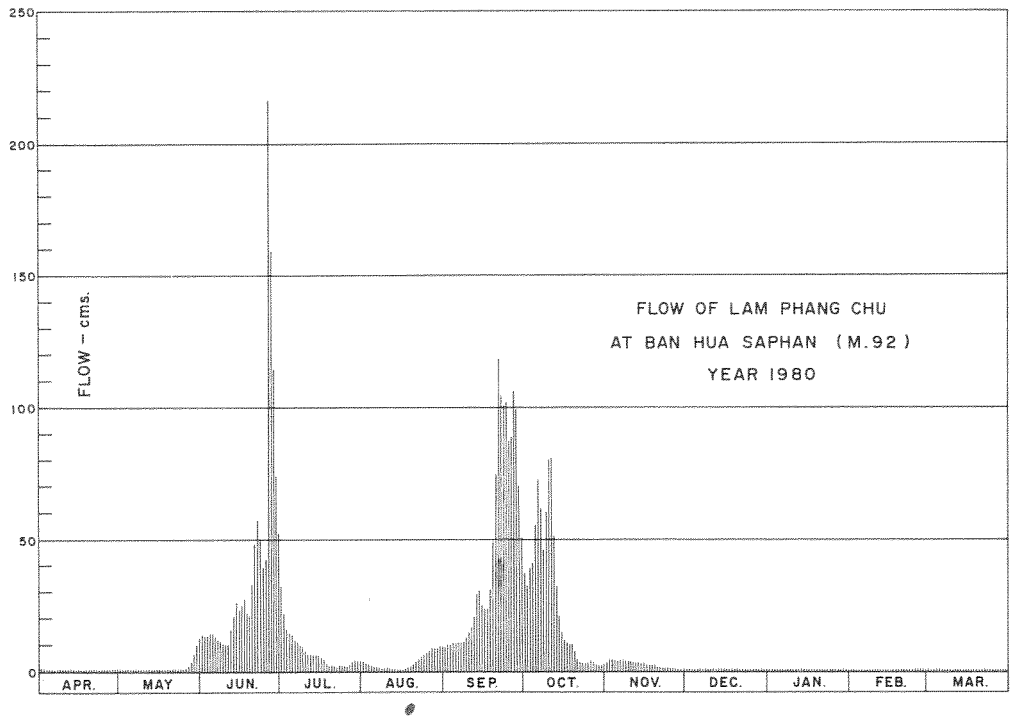
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.15	1.05	2.80	3.47	1.99	2.55	3.58	1.98	1.52	1.27	1.28	1.30	
2	1.17	1.05	2.78	3.13	1.95	2.57	3.47	2.08	1.49	1.27	1.27	1.32	
3	1.17	1.04	2.78	2.94	1.88	2.59	3.63	2.09	1.46	1.27	1.26	1.30	
4	1.17	1.03	2.85	2.83	1.82	2.61	3.67	2.05	1.43	1.26	1.24	1.29	
5	1.17	1.03	2.81	2.80	1.77	2.60	3.94	2.04	1.41	1.25	1.23	1.27	
6	1.16	1.07	2.75	2.72	1.71	2.64	4.20	2.04	1.38	1.23	1.21	1.24	
7	1.16	1.06	2.70	2.64	1.68	2.65	4.06	2.05	1.37	1.22	1.21	1.23	
8	1.15	1.05	2.65	2.61	1.65	2.66	3.78	2.02	1.39	1.20	1.20	1.23	
9	1.15	1.04	2.60	2.54	1.65	2.75	3.85	2.00	1.39	1.20	1.18	1.24	
10	1.15	1.04	2.58	2.36	1.64	2.85	4.28	2.02	1.37	1.20	1.17	1.24	
11	1.14	1.04	2.62	2.29	1.62	2.95	4.29	1.99	1.36	1.19	1.17	1.23	
12	1.13	1.03	2.90	2.25	1.55	3.10	3.98	1.96	1.36	1.19	1.16	1.22	
13	1.13	1.03	3.13	2.23	1.54	3.37	3.54	1.94	1.36	1.23	1.15	1.21	
14	1.12	1.02	3.29	2.22	1.54	3.43	3.11	1.93	1.36	1.23	1.14	1.20	
15	1.11	1.01	3.19	2.21	1.51	3.26	2.85	1.93	1.36	1.23	1.43	1.19	
16	1.10	1.00	3.25	2.19	1.55	3.19	2.72	1.89	1.36	1.25	1.39	1.18	
17	1.10	0.99	3.30	2.07	1.65	3.20	2.65	1.88	1.35	1.27	1.32	1.19	
18	1.09	0.99	3.14	1.90	1.72	3.41	2.63	1.87	1.34	1.27	1.29	1.21	
19	1.09	0.99	3.13	1.81	1.80	3.72	2.61	1.83	1.33	1.29	1.29	1.21	
20	1.08	0.98	3.52	1.84	1.90	4.24	2.39	1.77	1.31	1.27	1.32	1.19	
21	1.07	0.98	3.82	1.91	1.98	4.59	2.09	1.74	1.30	1.26	1.32	1.18	
22	1.07	0.99	3.96	1.79	2.06	4.50	1.97	1.68	1.29	1.24	1.31	1.18	
23	1.06	0.99	3.87	1.83	2.14	4.46	1.93	1.67	1.29	1.22	1.32	1.16	
24	1.05	0.98	3.64	1.83	2.22	4.48	1.91	1.66	1.29	1.20	1.32	1.16	
25	1.05	0.97	3.71	1.83	2.30	4.35	1.94	1.64	1.29	1.19	1.31	1.15	
26	1.04	1.29	4.99	1.82	2.39	4.36	2.00	1.61	1.28	1.19	1.30	1.14	
27	1.08	1.81	4.79	1.89	2.47	4.51	1.95	1.56	1.28	1.18	1.30	1.12	
28	1.07	1.93	4.56	1.97	2.50	4.45	1.88	1.53	1.28	1.25	1.29	1.11	
29	1.07	2.29	4.22	2.01	2.50	4.16	1.87	1.53	1.28	1.27		1.11	
30	1.06	2.50	3.82	2.00	2.57	3.88	1.83	1.53	1.28	1.29		1.10	
31		2.75		2.00	2.54		1.89		1.27	1.29		1.09	
MEAN	1.11	1.23	3.34	2.25	1.93	3.47	2.92	1.85	1.35	1.24	1.26	1.20	
MAX	1.17	2.75	4.99	3.47	2.57	4.59	4.29	2.09	1.52	1.29	1.43	1.32	4.99
MIN	1.04	0.97	2.58	1.79	1.51	2.55	1.83	1.53	1.27	1.18	1.14	1.09	0.97

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.01 M (A.D), AT 12.00 HOURS, ON JUN 26, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -2.21 M (A.D)

LEFT BANK ELEVATION — 5.69 M (A.D)

RIGHT BANK ELEVATION — 6.72 M (A.D), DRAINAGE AREA 1094 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.00	14.00	32.80	3.90	9.75	37.20	3.80	0.68	0.25	0.27	0.30	
2	0.10	0.00	13.60	21.90	3.50	10.05	32.80	4.80	0.58	0.25	0.25	0.33	
3	0.10	0.00	13.60	16.80	2.80	10.35	39.20	4.90	0.54	0.25	0.24	0.30	
4	0.10	0.00	15.00	14.60	2.20	10.65	40.80	4.50	0.49	0.24	0.21	0.28	
5	0.10	0.00	14.20	14.00	1.85	10.50	54.40	4.40	0.46	0.23	0.19	0.25	
6	0.09	0.00	13.00	12.40	1.55	11.10	73.00	4.40	0.42	0.19	0.16	0.21	
7	0.09	0.00	12.00	11.10	1.40	11.25	62.20	4.50	0.40	0.18	0.16	0.19	
8	0.07	0.00	11.25	10.65	1.25	11.40	46.00	4.20	0.43	0.15	0.15	0.19	
9	0.07	0.00	10.50	9.60	1.25	13.00	49.50	4.00	0.43	0.15	0.12	0.21	
10	0.07	0.00	10.20	7.60	1.20	15.00	80.20	4.20	0.40	0.15	0.10	0.21	
11	0.06	0.00	10.80	6.90	1.10	17.00	81.10	3.90	0.39	0.13	0.10	0.19	
12	0.04	0.00	16.00	6.50	0.80	21.00	56.80	3.60	0.39	0.13	0.09	0.18	
13	0.04	0.00	21.90	6.30	0.76	29.10	35.60	3.40	0.39	0.19	0.07	0.16	
14	0.03	0.00	26.70	6.20	0.76	31.20	21.30	3.30	0.39	0.19	0.06	0.15	
15	0.01	0.00	23.70	6.10	0.64	25.80	15.00	3.30	0.39	0.19	0.49	0.13	
16	0.00	0.00	25.50	5.90	0.80	23.70	12.40	2.90	0.39	0.23	0.43	0.12	
17	0.00	0.00	27.00	4.70	1.25	24.00	11.25	2.80	0.37	0.25	0.33	0.13	
18	0.00	0.00	22.20	3.00	1.60	30.40	10.95	2.70	0.36	0.25	0.28	0.16	
19	0.00	0.00	21.90	2.10	2.00	43.00	10.65	2.30	0.34	0.28	0.28	0.16	
20	0.00	0.00	34.80	2.40	3.00	76.60	7.90	1.85	0.31	0.25	0.33	0.13	
21	0.00	0.00	48.00	2.10	3.80	118.50	4.90	1.70	0.30	0.24	0.33	0.12	
22	0.00	0.00	55.60	1.95	4.60	105.00	3.70	1.40	0.28	0.21	0.31	0.12	
23	0.00	0.00	50.50	2.30	5.40	100.20	3.30	1.35	0.28	0.18	0.33	0.09	
24	0.00	0.00	39.60	2.30	6.20	102.60	3.10	1.30	0.28	0.15	0.33	0.09	
25	0.00	0.00	42.50	2.30	7.00	87.50	3.40	1.20	0.28	0.13	0.31	0.07	
26	0.00	0.28	216.90	2.20	7.90	88.60	4.00	1.05	0.27	0.13	0.30	0.06	
27	0.00	2.10	159.80	2.90	8.70	106.50	3.50	0.84	0.27	0.12	0.30	0.03	
28	0.00	3.30	114.00	3.70	9.00	99.00	2.80	0.72	0.27	0.23	0.28	0.01	
29	0.00	6.90	74.80	4.10	9.00	69.80	2.70	0.72	0.27	0.25		0.01	
30	0.00	9.00	48.00	4.00	10.05	51.00	2.30	0.72	0.27	0.28		0.00	
31		13.00		4.00	9.60		2.90		0.25	0.28		0.00	
TOTAL	1.04	34.58	1207.55	233.40	114.86	1363.55	814.85	84.75	11.57	6.33	6.80	4.58	3883.86 CMSDAY
MEAN	0.03	1.12	40.25	7.53	3.71	45.45	26.29	2.82	0.37	0.20	0.24	0.15	10.64 CMS
MAX	0.10	13.00	216.90	32.80	10.05	118.50	81.10	4.90	0.68	0.28	0.49	0.33	216.90 CMS
MIN	0.00	0.00	10.20	1.95	0.64	9.75	2.30	0.72	0.25	0.12	0.06	0.00	0.00 CMS
RUNOFF	0.090	2.988	104.332	20.166	9.924	117.811	70.403	7.322	1.000	0.547	0.588	0.396	335.565 MCM

MOMENTARY PEAK 223.60 CMS, AT 5.01 M (A.D), AT 12.00 HOURS, ON JUN 26, 1980

RUNOFF YIELD 9.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 204.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

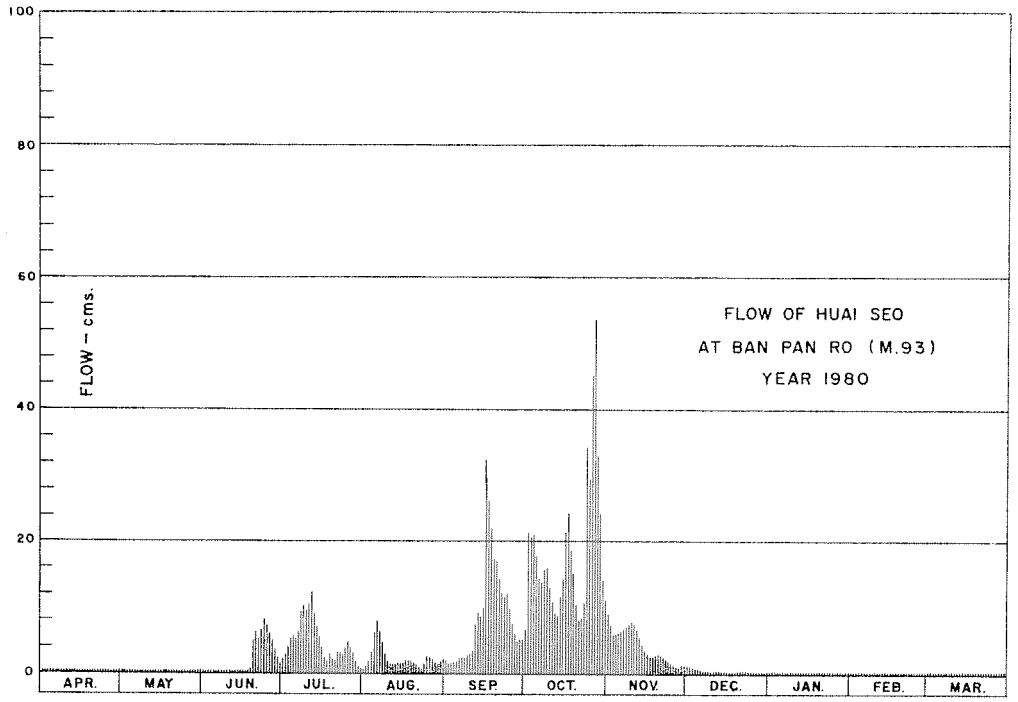
HUAI SEO AT BAN PAN RO, BURI RAM (M.93)

LOCATION	LAT. 14°-28'-24" N., LONG. 103°-06'-20" E., ON RIGHT BANK ABOUT 100 METERS FROM PRAKONCHAI-SURIN HIGHWAY AT BAN PAN RO, AMPHOE BAN KRUAT, BURI RAM.
DRAINAGE AREA	329 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-R.I.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+4.571 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +3.09 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 246 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.18	0.40	1.44	0.96	1.42	2.26	2.58	1.09	0.70	0.33	0.16	
2	0.03	0.17	0.45	1.53	1.19	1.26	3.18	2.40	1.07	0.75	0.33	0.17	
3	0.09	0.16	0.44	1.79	1.39	1.24	3.16	2.13	1.04	0.68	0.36	0.17	
4	0.13	0.40	0.44	2.03	1.67	1.31	3.17	2.14	1.00	0.70	0.32	0.17	
5	0.11	0.28	0.48	2.09	2.19	1.39	3.08	2.15	0.96	0.72	0.37	0.19	
6	0.10	0.48	0.50	2.03	2.45	1.48	2.95	2.26	0.90	0.67	0.41	0.20	
7	0.10	0.46	0.48	2.29	2.23	1.48	2.92	2.29	0.91	0.70	0.48	0.19	
8	0.09	0.46	0.48	2.60	1.92	1.43	3.00	2.37	0.88	0.75	0.54	0.20	
9	0.07	0.46	0.48	2.71	1.59	1.53	3.02	2.40	0.88	0.68	0.49	0.20	
10	0.06	0.46	0.48	2.62	1.34	1.59	2.94	2.42	0.89	0.58	0.39	0.19	
11	0.08	0.46	0.51	2.71	1.21	1.79	2.74	2.45	0.89	0.60	0.34	0.18	
12	0.20	0.45	0.59	2.83	1.22	2.40	2.57	2.36	0.85	0.58	0.35	0.18	
13	0.19	0.44	0.57	2.65	1.21	2.62	2.54	2.11	0.85	0.54	0.35	0.17	
14	0.18	0.43	0.57	2.34	1.25	2.53	2.76	1.93	0.81	0.53	0.35	0.17	
15	0.16	0.41	0.71	2.04	1.29	2.66	2.95	1.76	0.78	0.52	0.32	0.17	
16	0.15	0.40	0.68	1.72	1.24	3.40	3.18	1.61	0.78	0.52	0.23	0.15	
17	0.21	0.39	0.66	1.42	1.39	3.29	3.25	1.51	0.75	0.53	0.26	0.15	
18	0.20	0.38	0.63	1.34	1.36	3.16	3.08	1.51	0.72	0.47	0.34	0.13	
19	0.20	0.37	0.71	1.55	1.35	3.06	2.87	1.55	0.73	0.47	0.34	0.15	
20	0.18	0.36	1.90	1.43	1.25	3.06	2.68	1.57	0.76	0.45	0.34	0.14	
21	0.18	0.37	2.22	1.35	1.12	2.97	2.46	1.55	0.80	0.46	0.28	0.11	
22	0.17	0.43	2.06	1.61	0.97	2.83	2.51	1.46	0.81	0.46	0.28	0.12	
23	0.16	0.43	2.34	1.60	0.91	2.79	2.73	1.40	0.80	0.45	0.28	0.12	
24	0.16	0.41	2.49	1.57	1.27	2.84	3.43	1.32	0.74	0.49	0.26	0.12	
25	0.14	0.40	2.41	1.73	1.48	2.65	3.34	1.25	0.77	0.52	0.27	0.12	
26	0.13	0.39	2.29	1.99	1.47	2.44	3.44	1.18	0.79	0.50	0.27	0.12	
27	0.21	0.55	2.03	1.81	1.38	2.20	3.63	1.14	0.74	0.44	0.16	0.12	
28	0.21	0.48	1.77	1.60	1.26	1.99	3.42	1.09	0.70	0.33	0.22	0.13	
29	0.20	0.43	1.44	1.35	1.17	2.02	3.21	1.14	0.67	0.39		0.13	
30	0.19	0.42	1.30	1.05	1.33	2.01	2.99	1.13	0.72	0.36		0.12	
31		0.41		1.02	1.41		2.77		0.71	0.38		0.12	
MEAN	0.14	0.40	1.08	1.87	1.40	2.23	2.98	1.81	0.83	0.55	0.33	0.15	
MAX	0.21	0.55	2.49	2.83	2.45	3.40	3.63	2.58	1.09	0.75	0.54	0.20	3.63
MIN	0.03	0.16	0.40	1.02	0.91	1.24	2.26	1.09	0.67	0.33	0.16	0.11	0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.66 M (A.D), AT 6.00 HOURS, ON OCT 27, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 3.09 M (A.D)
RIGHT BANK ELEVATION 3.73 M (A.D), DRAINAGE AREA 329 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	2.40	0.78	2.30	6.56	9.10	1.17	0.20	0.00	0.00	
2	0.00	0.00	0.03	2.85	1.47	1.68	21.52	7.50	1.11	0.30	0.00	0.00	
3	0.00	0.00	0.02	4.15	2.16	1.62	20.74	5.85	1.02	0.18	0.00	0.00	
4	0.00	0.00	0.02	5.35	3.55	1.84	21.13	5.90	0.90	0.20	0.00	0.00	
5	0.00	0.00	0.04	5.65	6.15	2.16	17.84	5.95	0.78	0.24	0.00	0.00	
6	0.00	0.04	0.05	5.35	7.90	2.60	14.50	6.56	0.60	0.17	0.00	0.00	
7	0.00	0.03	0.04	6.74	6.38	2.60	13.84	6.74	0.63	0.20	0.04	0.00	
8	0.00	0.03	0.04	9.30	4.80	2.35	15.60	7.29	0.56	0.30	0.07	0.00	
9	0.00	0.03	0.04	10.44	3.15	2.85	16.16	7.50	0.56	0.18	0.04	0.00	
10	0.00	0.03	0.04	9.50	1.96	3.15	14.28	7.66	0.58	0.09	0.00	0.00	
11	0.00	0.03	0.06	10.44	1.53	4.15	10.86	7.90	0.58	0.10	0.00	0.00	
12	0.00	0.03	0.09	12.21	1.56	7.50	9.00	7.22	0.50	0.09	0.00	0.00	
13	0.00	0.02	0.08	9.80	1.53	9.50	8.70	5.75	0.50	0.07	0.00	0.00	
14	0.00	0.01	0.08	7.08	1.65	8.60	11.14	4.85	0.42	0.07	0.00	0.00	
15	0.00	0.00	0.22	5.40	1.77	9.90	14.50	4.00	0.36	0.06	0.00	0.00	
16	0.00	0.00	0.18	3.80	1.62	32.20	21.52	3.25	0.36	0.06	0.00	0.00	
17	0.00	0.00	0.16	2.30	2.16	26.35	24.55	2.75	0.30	0.07	0.00	0.00	
18	0.00	0.00	0.13	1.96	2.04	20.74	17.84	2.75	0.24	0.03	0.00	0.00	
19	0.00	0.00	0.22	2.95	2.00	17.28	12.69	2.95	0.26	0.03	0.00	0.00	
20	0.00	0.00	4.70	2.35	1.65	17.28	10.10	3.05	0.32	0.03	0.00	0.00	
21	0.00	0.00	6.32	2.00	1.26	14.94	7.95	2.95	0.40	0.03	0.00	0.00	
22	0.00	0.01	5.50	3.25	0.81	12.21	8.40	2.50	0.42	0.03	0.00	0.00	
23	0.00	0.01	7.08	3.20	0.63	11.56	10.72	2.20	0.40	0.03	0.00	0.00	
24	0.00	0.00	8.22	3.05	1.71	12.38	34.42	1.88	0.28	0.04	0.00	0.00	
25	0.00	0.00	7.58	3.85	2.60	9.80	28.96	1.65	0.34	0.06	0.00	0.00	
26	0.00	0.00	6.74	5.15	2.55	7.82	35.16	1.44	0.38	0.05	0.00	0.00	
27	0.00	0.07	5.35	4.25	2.12	6.20	53.68	1.32	0.28	0.02	0.00	0.00	
28	0.00	0.04	4.05	3.20	1.68	5.15	33.68	1.17	0.20	0.00	0.00	0.00	
29	0.00	0.01	2.40	2.00	1.41	5.30	22.75	1.32	0.17	0.00		0.00	
30	0.00	0.01	1.80	1.05	1.92	5.25	15.38	1.29	0.24	0.00		0.00	
31		0.00		0.96	2.25		11.28		0.22	0.00		0.00	
TOTAL	0.00	0.40	61.28	151.98	74.75	267.26	555.68	132.24	15.08	2.93	0.15	0.00	1271.75 CMSDAY
MEAN	0.00	0.01	2.04	4.90	2.41	8.91	18.25	4.41	0.49	0.09	0.01	0.00	3.48 CMS
MAX	0.00	0.07	8.22	12.21	7.90	32.20	53.68	9.10	1.17	0.30	0.07	0.00	53.68 CMS
MIN	0.00	0.00	0.00	0.96	0.63	1.62	6.56	1.17	0.17	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.035	5.295	13.131	6.458	23.091	48.875	11.426	1.303	0.253	0.013	0.000	109.879 MCM

MOMENTARY PEAK 57.76 CMS, AT 3.66 M (A.D), AT 6.00 HOURS, ON OCT 27, 1980

RUNOFF YIELD 10.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 175.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI THA AT BAN ALANG, SI SA KET (M.98)

LOCATION — LAT. 14°-52'-39" N., LONG. 104°-26'-16" E., ON LEFT BANK AT THE BRIDGE OF SI SA KET-KANTHARALAK HIGHWAY NEAR KILOMETER MARKER 27+734, TAMBON TAM YAE, AMPHOE MUANG, SI SA KET.

DRAINAGE AREA — 1,092 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +8.061 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

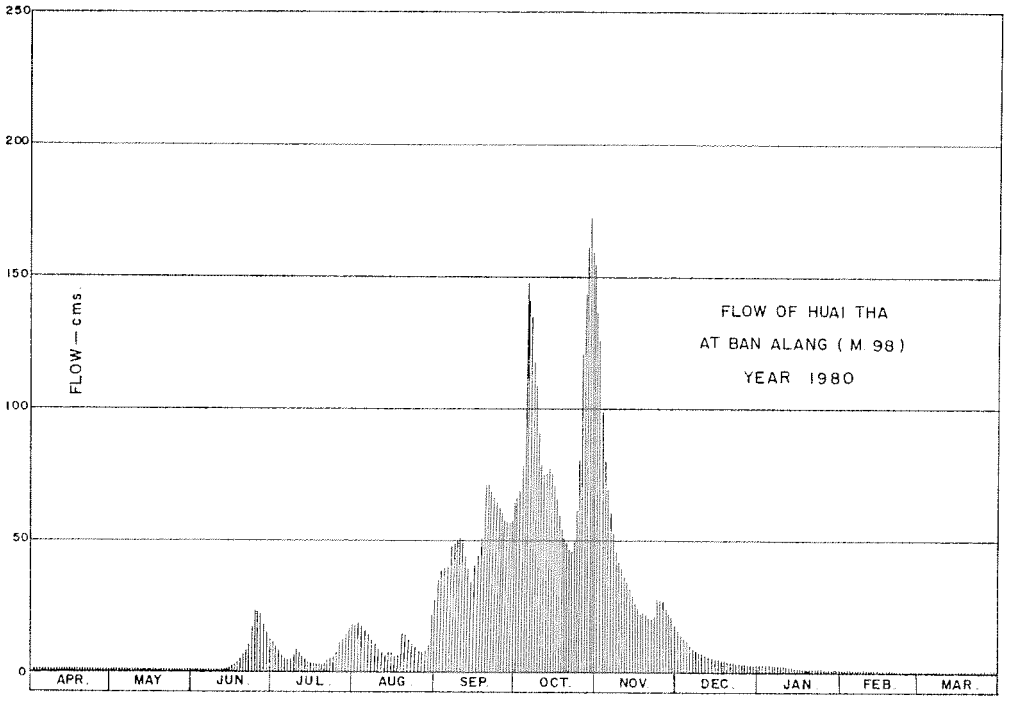
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.25	0.32	2.02	2.45	3.38	5.31	6.90	2.37	0.94	0.49	0.32	
2	0.25	0.25	0.29	1.95	2.53	3.78	5.36	6.51	2.27	0.91	0.45	0.31	
3	0.25	0.24	0.29	1.80	2.46	3.89	5.56	6.11	2.14	0.89	0.44	0.30	
4	0.25	0.24	0.29	1.60	2.42	3.93	5.87	5.74	2.07	0.89	0.38	0.38	
5	0.25	0.25	0.29	1.43	2.37	3.93	6.92	5.36	1.99	0.86	0.43	0.34	
6	0.25	0.27	0.29	1.29	2.27	4.06	7.17	5.10	1.89	0.85	0.41	0.31	
7	0.27	0.26	0.27	1.22	2.17	4.38	7.00	4.69	1.81	0.85	0.34	0.31	
8	0.30	0.26	0.29	1.16	1.99	4.45	6.71	4.34	1.74	0.83	0.38	0.31	
9	0.26	0.26	0.33	1.18	1.82	4.42	6.40	4.05	1.66	0.80	0.38	0.31	
10	0.26	0.27	0.42	1.62	1.73	4.59	6.03	3.89	1.59	0.78	0.43	0.30	
11	0.25	0.27	0.38	1.58	1.58	4.54	5.73	3.74	1.54	0.76	0.41	0.30	
12	0.25	0.29	0.34	1.48	1.53	4.33	5.63	3.62	1.48	0.73	0.40	0.30	
13	0.25	0.32	0.32	1.31	1.49	4.01	5.69	3.44	1.40	0.72	0.39	0.30	
14	0.25	0.33	0.45	1.15	1.61	3.49	5.73	3.28	1.38	0.71	0.38	0.30	
15	0.25	0.33	0.67	1.06	1.51	3.83	5.65	3.11	1.36	0.66	0.39	0.30	
16	0.25	0.46	0.66	0.99	1.43	4.11	5.48	2.94	1.30	0.61	0.36	0.30	
17	0.25	0.37	0.86	0.92	1.39	4.17	5.20	2.78	1.26	0.61	0.34	0.30	
18	0.25	0.30	0.99	0.86	1.48	4.45	4.96	2.84	1.23	0.60	0.33	0.30	
19	0.25	0.28	1.18	0.81	2.05	5.01	4.65	2.81	1.20	0.59	0.33	0.29	
20	0.25	0.29	1.51	0.79	2.23	5.47	4.48	2.71	1.21	0.60	0.34	0.31	
21	0.25	0.28	1.59	0.95	2.20	5.55	4.31	2.63	1.20	0.64	0.30	0.39	
22	0.25	0.29	1.90	1.23	2.02	5.42	4.28	2.69	1.16	0.64	0.29	0.44	
23	0.25	0.37	2.23	1.28	1.88	5.32	4.46	2.95	1.11	0.61	0.27	0.34	
24	0.25	0.31	2.58	1.34	1.71	5.29	5.17	3.15	1.09	0.59	0.28	0.31	
25	0.25	0.31	2.85	1.45	1.58	5.21	5.84	3.17	1.07	0.54	0.28	0.31	
26	0.25	0.33	2.83	1.69	1.59	5.04	6.48	3.11	1.07	0.57	0.27	0.32	
27	0.25	0.30	2.56	1.90	1.57	4.87	6.97	2.95	1.03	0.55	0.28	0.35	
28	0.25	0.30	2.40	2.02	1.58	4.90	7.29	2.80	1.01	0.53	0.29	0.33	
29	0.25	0.29	2.20	2.16	1.71	4.86	7.47	2.65	1.00	0.51		0.32	
30	0.25	0.37	2.02	2.29	2.63	4.88	7.38	2.52	0.97	0.50		0.33	
31		0.41		2.46	2.87		7.21		0.96	0.51		0.36	
MEAN	0.25	0.30	1.12	1.45	1.93	4.52	5.88	3.75	1.44	0.69	0.36	0.32	
MAX	0.30	0.46	2.85	2.46	2.87	5.55	7.47	6.90	2.37	0.94	0.49	0.44	7.47
MIN	0.25	0.24	0.27	0.79	1.39	3.38	4.28	2.52	0.96	0.50	0.27	0.29	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.48 M (A.D), AT 18.00 HOURS, ON OCT 29, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.04 M (A.D)
LEFT BANK ELEVATION 7.91 M (A.D)
RIGHT BANK ELEVATION 7.91 M (A.D), DRAINAGE AREA 1092 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.25	0.60	12.84	18.00	30.92	66.25	128.50	17.04	3.70	1.45	0.60	
2	0.25	0.25	0.45	12.00	19.02	37.08	67.50	107.50	15.84	3.55	1.25	0.55	
3	0.25	0.20	0.45	10.20	18.12	38.84	72.50	89.40	14.28	3.45	1.20	0.50	
4	0.25	0.20	0.45	8.20	17.64	39.54	81.60	77.70	13.44	3.45	0.90	0.90	
5	0.25	0.25	0.45	6.50	17.04	39.54	129.80	67.50	12.48	3.30	1.15	0.70	
6	0.25	0.35	0.45	5.54	15.84	41.38	147.75	62.00	11.28	3.25	1.05	0.55	
7	0.35	0.30	0.35	5.12	14.64	47.64	135.00	53.80	10.32	3.25	0.70	0.55	
8	0.50	0.30	0.45	4.80	12.48	49.00	117.55	46.92	9.60	3.15	0.90	0.55	
9	0.30	0.30	0.65	4.90	10.44	48.40	102.00	41.70	8.80	3.00	0.90	0.55	
10	0.30	0.35	1.10	8.40	9.50	51.60	86.55	38.84	8.10	2.90	1.15	0.50	
11	0.25	0.35	0.90	8.00	8.00	50.80	77.40	36.44	7.60	2.80	1.05	0.50	
12	0.25	0.45	0.70	7.00	7.50	48.74	74.40	34.52	7.00	2.65	1.00	0.50	
13	0.25	0.60	0.60	5.66	7.10	40.98	76.20	31.76	6.20	2.60	0.95	0.50	
14	0.25	0.65	1.25	4.75	8.30	32.46	77.40	29.52	6.08	2.55	0.90	0.50	
15	0.25	0.65	2.35	4.30	7.30	37.86	75.00	27.14	5.96	2.30	0.95	0.50	
16	0.25	1.30	2.30	3.95	6.50	42.72	70.50	24.76	5.60	2.05	0.80	0.50	
17	0.25	0.85	3.30	3.60	6.14	43.86	64.00	22.52	5.36	2.05	0.70	0.50	
18	0.25	0.50	3.95	3.30	7.60	49.00	59.20	23.36	5.18	2.00	0.65	0.50	
19	0.25	0.40	4.90	3.05	13.20	50.20	53.00	22.94	5.00	1.95	0.65	0.45	
20	0.25	0.45	7.30	2.95	15.36	70.25	49.60	21.54	5.05	2.00	0.70	0.55	
21	0.25	0.40	8.10	3.75	15.00	72.25	46.38	20.42	5.00	2.20	0.50	0.95	
22	0.25	0.45	11.40	5.19	12.84	69.00	45.84	21.26	4.80	2.20	0.45	1.20	
23	0.25	0.85	15.36	5.48	11.16	66.50	49.20	24.90	4.55	2.05	0.35	0.70	
24	0.25	0.55	19.72	5.34	9.30	65.80	63.40	27.70	4.45	1.95	0.40	0.55	
25	0.25	0.55	23.50	6.70	8.00	64.20	80.70	27.98	4.35	1.70	0.40	0.55	
26	0.25	0.65	23.22	9.10	8.10	60.80	106.00	27.14	4.35	1.85	0.35	0.60	
27	0.25	0.50	19.44	11.40	7.90	57.40	133.05	24.90	4.15	1.75	0.40	0.75	
28	0.25	0.50	17.40	12.84	8.00	58.60	156.75	22.80	4.05	1.65	0.45	0.65	
29	0.25	0.45	15.00	14.52	9.30	57.20	172.80	20.70	4.00	1.55		0.60	
30	0.25	0.85	12.84	16.08	20.42	57.60	164.70	18.88	3.85	1.50		0.65	
31		1.05		18.12	23.78		150.75		3.80	1.55		0.80	
TOTAL	7.95	15.75	198.93	234.07	372.92	1528.34	2852.77	1225.04	227.57	75.90	22.30	18.95	6780.48 CMSDAY
MEAN	0.26	0.51	6.63	7.55	12.03	50.94	92.02	40.83	7.34	2.45	0.80	0.61	18.58 CMS
MAX	0.50	1.30	23.50	18.12	23.78	72.25	172.80	128.50	17.04	3.70	1.45	1.20	172.80 CMS
MIN	0.25	0.20	0.35	2.95	6.14	30.92	45.84	18.88	3.80	1.50	0.35	0.45	0.20 CMS
RUNOFF	0.687	1.361	17.188	20.224	32.220	132.048	246.479	105.843	19.662	6.558	1.927	1.637	585.833 MCM

MOMENTARY PEAK 173.70 CMS, AT 7.48 M (A.S.), AT 18.00 HOURS, ON OCT 29, 1980

RUNOFF YIELD 17.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 159.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI TAKO AT BAN KHOK KACHAO, BURIRAM (M.99)

LOCATION — LAT. 14°-36'-22" N., LONG. 103°-06'-30" E., ON LEFT BANK AT THE BRIDGE OF CHOK CHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 103-104 AND ABOUT 2.5 KILOMETERS FROM AMPHOE PRAKHON CHAI, BAN KHOK KACHAO, AMPHOE PRAKHON CHAI, BURI RAM.

DRAINAGE AREA — 88 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPARTMENT.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +3.606 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 108 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

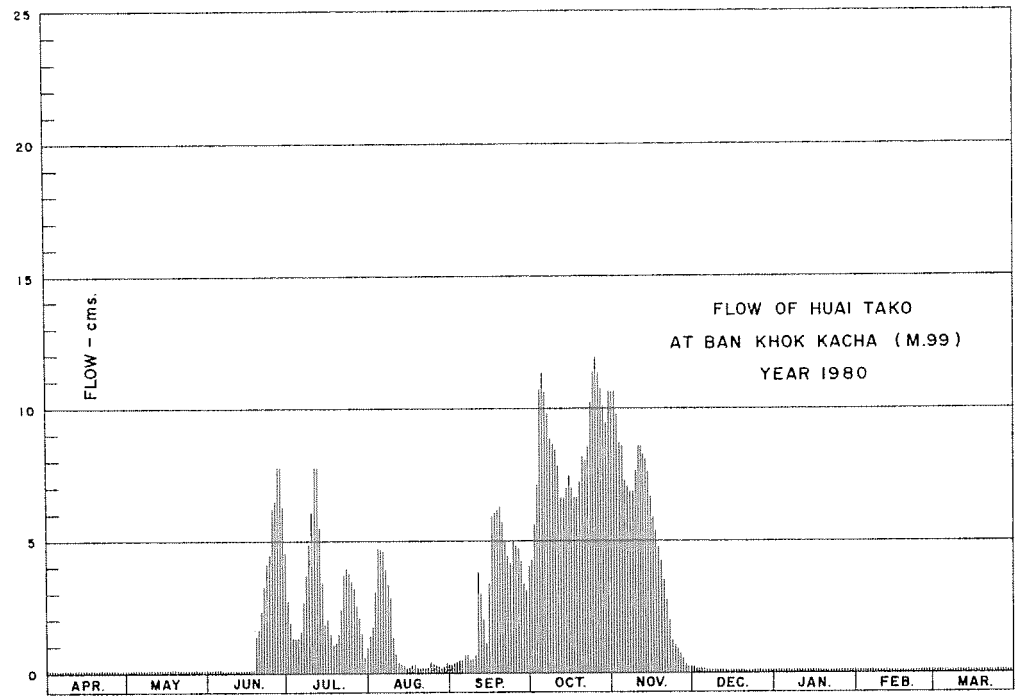
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.31	0.31	0.62	1.42	1.11	0.80	1.59	1.83	0.74	0.54	0.31	0.31	
2	0.31	0.31	0.65	1.31	1.24	0.82	1.68	1.82	0.68	0.53	0.31	0.31	
3	0.31	0.31	0.64	1.13	1.46	0.85	1.73	1.80	0.70	0.52	0.31	0.31	
4	0.31	0.64	0.67	1.14	1.62	0.87	1.83	1.79	0.68	0.51	0.31	0.31	
5	0.31	0.58	0.69	1.15	1.62	0.87	1.84	1.75	0.67	0.50	0.31	0.31	
6	0.31	0.56	0.63	1.20	1.62	0.94	1.83	1.74	0.66	0.49	0.31	0.31	
7	0.31	0.54	0.63	1.36	1.59	0.94	1.81	1.73	0.66	0.48	0.31	0.31	
8	0.31	0.51	0.62	1.53	1.49	0.87	1.80	1.73	0.66	0.47	0.31	0.31	
9	0.31	0.50	0.61	1.63	1.24	0.90	1.79	1.76	0.62	0.46	0.31	0.31	
10	0.31	0.48	0.60	1.70	1.02	0.95	1.77	1.79	0.63	0.44	0.31	0.31	
11	0.31	0.46	0.62	1.76	0.93	1.55	1.74	1.79	0.65	0.44	0.31	0.31	
12	0.31	0.45	0.62	1.76	0.80	1.48	1.72	1.78	0.64	0.43	0.31	0.31	
13	0.31	0.44	0.63	1.66	0.78	1.19	1.72	1.77	0.62	0.42	0.31	0.31	
14	0.31	0.42	0.62	1.48	0.75	1.10	1.73	1.75	0.61	0.41	0.31	0.31	
15	0.31	0.40	0.64	1.28	0.71	1.56	1.75	1.72	0.61	0.40	0.31	0.31	
16	0.31	0.39	0.64	1.31	0.73	1.69	1.73	1.69	0.63	0.40	0.31	0.31	
17	0.31	0.38	0.64	1.22	0.80	1.70	1.72	1.66	0.64	0.39	0.31	0.31	
18	0.31	0.37	0.86	1.07	0.77	1.70	1.72	1.61	0.62	0.39	0.31	0.31	
19	0.31	0.37	1.44	1.11	0.72	1.71	1.75	1.58	0.62	0.37	0.31	0.31	
20	0.31	0.37	1.51	1.20	0.73	1.68	1.78	1.51	0.63	0.36	0.31	0.31	
21	0.31	0.39	1.59	1.36	0.72	1.62	1.77	1.41	0.63	0.36	0.31	0.31	
22	0.31	0.43	1.65	1.52	0.67	1.60	1.79	1.31	0.62	0.35	0.31	0.31	
23	0.31	0.45	1.71	1.56	0.70	1.58	1.82	1.12	0.61	0.34	0.31	0.31	
24	0.31	0.43	1.72	1.55	0.85	1.64	1.84	1.09	0.60	0.34	0.31	0.31	
25	0.31	0.41	1.77	1.53	0.80	1.63	1.85	1.02	0.59	0.34	0.31	0.31	
26	0.31	0.41	1.78	1.49	0.78	1.62	1.84	0.94	0.59	0.32	0.31	0.31	
27	0.31	0.67	1.76	1.40	0.76	1.59	1.83	0.88	0.58	0.32	0.31	0.31	
28	0.31	0.64	1.74	1.31	0.72	1.52	1.82	0.78	0.57	0.31	0.31	0.31	
29	0.31	0.66	1.69	1.17	0.70	1.48	1.81	0.76	0.57	0.31		0.31	
30	0.31	0.65	1.56	0.89	0.82	1.56	1.83	0.74	0.56	0.31		0.31	
31		0.63		1.06	0.77		1.83		0.55	0.31		0.00	
MEAN	0.31	0.47	1.05	1.36	0.97	1.33	1.78	1.49	0.63	0.41	0.31	0.30	
MAX	0.31	0.67	1.78	1.76	1.62	1.71	1.85	1.83	0.74	0.54	0.31	0.31	1.85
MIN	0.31	0.31	0.60	0.89	0.67	0.80	1.59	0.74	0.55	0.31	0.31	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.85 M (A.D.), AT 6.00 HOURS, ON OCT 5, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — M (A.D.)

LEFT BANK ELEVATION — 3.29 M (A.D.)

RIGHT BANK ELEVATION — 3.29 M (A.D.), DRAINAGE AREA — 88 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.03	2.65	1.14	0.30	4.24	10.69	0.21	0.00	0.00	0.00	
2	0.00	0.00	0.08	2.00	1.68	0.35	5.71	10.08	0.12	0.00	0.00	0.00	
3	0.00	0.00	0.06	1.22	2.95	0.42	6.89	8.85	0.15	0.00	0.00	0.00	
4	0.00	0.06	0.11	1.26	4.69	0.47	10.69	8.57	0.12	0.00	0.00	0.00	
5	0.00	0.00	0.13	1.30	4.69	0.47	11.31	7.45	0.11	0.00	0.00	0.00	
6	0.00	0.00	0.05	1.50	4.69	0.65	10.69	7.17	0.09	0.00	0.00	0.00	
7	0.00	0.00	0.05	2.28	4.24	0.65	9.46	6.89	0.09	0.00	0.00	0.00	
8	0.00	0.00	0.03	3.58	3.17	0.47	8.85	6.89	0.09	0.00	0.00	0.00	
9	0.00	0.00	0.01	4.86	1.68	0.55	8.57	7.73	0.03	0.00	0.00	0.00	
10	0.00	0.00	0.00	6.05	0.86	0.67	8.01	8.57	0.05	0.00	0.00	0.00	
11	0.00	0.00	0.03	7.73	0.62	3.80	7.17	8.57	0.08	0.00	0.00	0.00	
12	0.00	0.00	0.03	7.73	0.30	3.10	6.61	8.29	0.06	0.00	0.00	0.00	
13	0.00	0.00	0.05	5.37	0.27	1.46	6.61	8.01	0.03	0.00	0.00	0.00	
14	0.00	0.00	0.03	3.10	0.23	1.10	6.89	7.45	0.01	0.00	0.00	0.00	
15	0.00	0.00	0.06	1.86	0.16	5.91	7.45	6.61	0.01	0.00	0.00	0.00	
16	0.00	0.00	0.06	2.00	0.19	5.88	6.89	5.88	0.05	0.00	0.00	0.00	
17	0.00	0.00	0.06	1.59	0.30	6.05	6.61	5.37	0.06	0.00	0.00	0.00	
18	0.00	0.00	0.08	1.01	0.25	6.05	6.61	4.52	0.03	0.00	0.00	0.00	
19	0.00	0.00	1.20	1.14	0.18	6.33	7.45	4.13	0.03	0.00	0.00	0.00	
20	0.00	0.00	1.58	1.50	0.19	5.71	8.29	3.36	0.05	0.00	0.00	0.00	
21	0.00	0.00	2.26	2.28	0.18	4.69	8.01	2.57	0.05	0.00	0.00	0.00	
22	0.00	0.00	3.62	3.47	0.11	4.35	8.57	2.00	0.03	0.00	0.00	0.00	
23	0.00	0.00	4.06	3.91	0.15	4.13	10.08	1.18	0.01	0.00	0.00	0.00	
24	0.00	0.00	4.42	3.80	0.42	5.03	11.31	1.07	0.00	0.00	0.00	0.00	
25	0.00	0.00	6.22	3.58	0.30	4.86	11.92	0.86	0.00	0.00	0.00	0.00	
26	0.00	0.00	6.58	3.17	0.27	4.69	11.31	0.65	0.00	0.00	0.00	0.00	
27	0.00	0.11	7.73	2.50	0.24	4.24	10.69	0.50	0.00	0.00	0.00	0.00	
28	0.00	0.06	7.17	2.00	0.18	3.47	10.08	0.27	0.00	0.00	0.00	0.00	
29	0.00	0.09	5.88	1.38	0.15	3.10	9.46	0.24	0.00	0.00		0.00	
30	0.00	0.08	3.91	0.52	0.35	3.91	10.69	0.21	0.00	0.00		0.00	
31		0.05		0.98	0.25		10.69		0.00	0.00		0.00	
TOTAL	0.00	0.45	54.98	97.32	35.08	90.86	267.81	154.63	1.56	0.00	0.00	0.00	692.69 CMSDAY
MEAN	0.00	0.01	1.83	2.82	1.13	3.03	8.64	5.15	0.05	0.00	0.00	0.00	1.90 CMS
MAX	0.00	0.11	7.73	7.73	4.69	6.33	11.92	10.69	0.21	0.00	0.00	0.00	11.92 CMS
MIN	0.00	0.00	0.00	0.52	0.11	0.30	4.24	0.21	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.039	4.750	7.544	3.031	7.850	23.139	13.360	0.135	0.000	0.000	0.000	59.848 MCM

MOMENTARY PEAK 11.92 CMS, AT 1.85 M (A.D), AT 6.00 HOURS, ON OCT 5, 1980
RUNOFF YIELD 21.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 135.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI SANENG AT BAN BU CHEK, SURIN (M.100)

LOCATION — LAT. 14°-37'-01" N., LONG. 103°-28'-44" E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 145-146 AND ABOUT 8 KILOMETERS FROM AMPHOE PRASAT, TAMBON TA BAO, AMPHOE PRASAT, SURIN.

DRAINAGE AREA — 131 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPT.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +3.332 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 92 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-MAY 3,1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

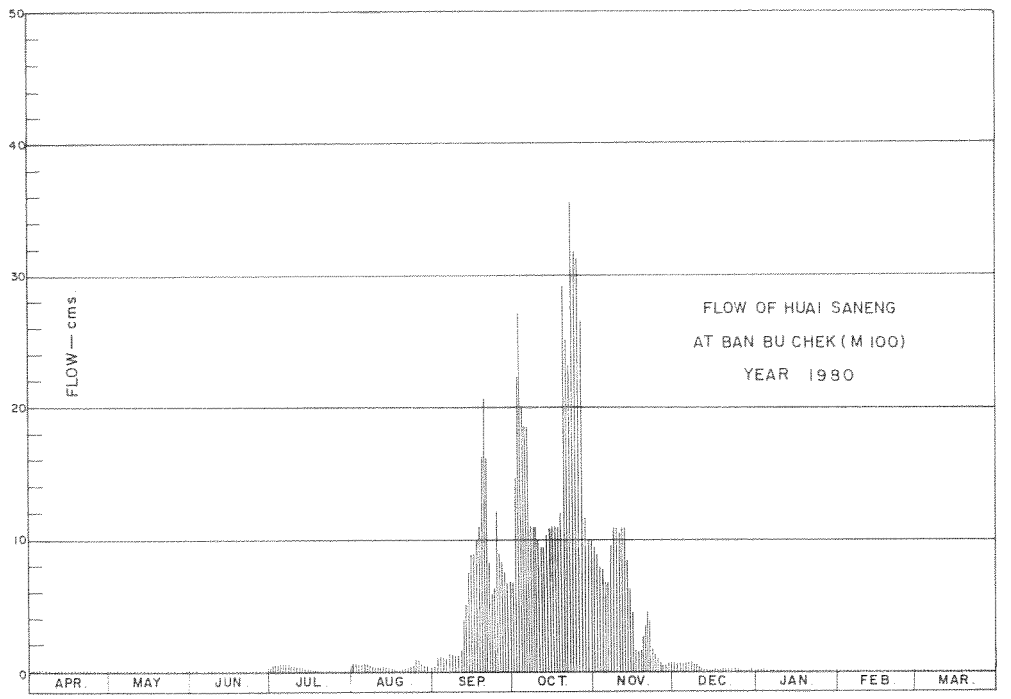
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.21	0.32	1.32	1.39	1.33	1.54	1.57	1.39	1.23	0.92	0.71	
2	0.21	0.21	0.32	1.35	1.39	1.46	1.61	1.57	1.40	1.23	0.91	0.70	
3	0.21	0.21	0.32	1.31	1.38	1.47	1.67	1.56	1.40	1.22	0.90	0.72	
4	0.21	0.29	0.32	1.38	1.39	1.46	1.64	1.56	1.39	1.20	0.89	0.71	
5	0.21	0.27	0.32	1.39	1.41	1.43	1.63	1.55	1.36	1.22	0.88	0.70	
6	0.21	0.27	0.32	1.40	1.40	1.47	1.63	1.55	1.42	1.22	0.88	0.70	
7	0.21	0.26	0.32	1.39	1.38	1.48	1.61	1.57	1.40	1.17	0.86	0.69	
8	0.21	0.25	0.32	1.34	1.36	1.48	1.59	1.59	1.40	1.18	0.86	0.68	
9	0.21	0.24	0.32	1.39	1.35	1.47	1.59	1.59	1.40	1.16	0.86	0.67	
10	0.21	0.23	0.33	1.36	1.31	1.46	1.59	1.58	1.36	1.13	0.84	0.66	
11	0.21	0.22	0.33	1.33	1.31	1.48	1.58	1.59	1.32	1.10	0.84	0.65	
12	0.21	0.21	0.32	1.34	1.32	1.52	1.57	1.59	1.31	1.08	0.82	0.64	
13	0.21	0.21	0.32	1.33	1.30	1.53	1.58	1.57	1.28	1.07	0.82	0.63	
14	0.21	0.32	0.32	1.31	1.30	1.55	1.59	1.55	1.26	1.06	0.81	0.62	
15	0.21	0.32	0.32	1.27	1.28	1.57	1.58	1.52	1.27	1.05	0.80	0.61	
16	0.21	0.32	0.32	1.26	1.27	1.57	1.59	1.50	1.27	1.04	0.79	0.60	
17	0.21	0.32	0.32	1.25	1.22	1.58	1.59	1.50	1.27	1.03	0.78	0.59	
18	0.21	0.32	0.34	1.21	1.22	1.59	1.59	1.50	1.27	1.02	0.77	0.58	
19	0.21	0.31	0.36	1.20	1.22	1.62	1.60	1.51	1.24	1.02	0.76	0.57	
20	0.21	0.30	0.49	1.20	1.27	1.64	1.68	1.52	1.23	1.02	0.75	0.56	
21	0.21	0.32	0.49	1.19	1.27	1.61	1.66	1.53	1.23	1.00	0.74	0.54	
22	0.21	0.32	0.47	1.19	1.26	1.56	1.65	1.51	1.26	0.99	0.73	0.54	
23	0.21	0.32	0.48	1.18	1.30	1.54	1.71	1.50	1.25	0.98	0.72	0.53	
24	0.21	0.32	0.47	1.15	1.34	1.55	1.69	1.49	1.27	0.98	0.72	0.53	
25	0.21	0.32	0.47	1.15	1.44	1.60	1.69	1.45	1.27	0.97	0.71	0.52	
26	0.21	0.32	0.46	1.16	1.43	1.57	1.68	1.40	1.24	0.96	0.71	0.51	
27	0.21	0.33	0.45	1.16	1.38	1.56	1.66	1.37	1.19	0.96	0.72	0.50	
28	0.21	0.32	0.44	1.16	1.36	1.57	1.60	1.36	1.21	0.95	0.71	0.50	
29	0.21	0.32	0.48	1.16	1.33	1.55	1.58	1.42	1.24	0.94		0.47	
30	0.21	0.32	1.27	1.16	1.32	1.55	1.58	1.39	1.23	0.93		0.48	
31		0.32		1.24	1.32		1.59		1.23	0.92		0.46	
MEAN	0.21	0.28	0.40	1.27	1.33	1.53	1.62	1.52	1.30	1.07	0.80	0.60	
MAX	0.21	0.33	1.27	1.40	1.44	1.64	1.71	1.59	1.42	1.23	0.92	0.72	1.71
MIN	0.21	0.21	0.32	1.15	1.22	1.33	1.54	1.36	1.19	0.92	0.71	0.46	0.21

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.72 M (A.D.), AT 18.00 HOURS, ON OCT 23, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — 0.45 M (A.D.)

LEFT BANK ELEVATION — 3.11 M (A.D.)

RIGHT BANK ELEVATION — 3.32 M (A.D.), DRAINAGE AREA — 131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.37	0.61	0.40	5.70	8.85	0.61	0.20	0.00	0.00	
2	0.00	0.00	0.00	0.47	0.61	1.16	14.15	8.85	0.65	0.20	0.00	0.00	
3	0.00	0.00	0.00	0.33	0.58	1.24	27.05	7.80	0.65	0.19	0.00	0.00	
4	0.00	0.00	0.00	0.58	0.61	1.16	20.60	7.60	0.61	0.16	0.00	0.00	
5	0.00	0.00	0.00	0.61	0.73	0.90	18.45	6.75	0.51	0.19	0.00	0.00	
6	0.00	0.00	0.00	0.65	0.65	1.24	18.45	6.75	0.82	0.19	0.00	0.00	
7	0.00	0.00	0.00	0.61	0.58	1.33	14.15	8.85	0.65	0.14	0.00	0.00	
8	0.00	0.00	0.00	0.44	0.51	1.33	10.95	10.95	0.65	0.14	0.00	0.00	
9	0.00	0.00	0.00	0.61	0.47	1.24	10.95	10.95	0.65	0.13	0.00	0.00	
10	0.00	0.00	0.00	0.51	0.33	1.16	10.95	9.90	0.51	0.10	0.00	0.00	
11	0.00	0.00	0.00	0.40	0.33	1.33	9.90	10.95	0.37	0.08	0.00	0.00	
12	0.00	0.00	0.00	0.44	0.37	3.60	8.85	10.95	0.33	0.06	0.00	0.00	
13	0.00	0.00	0.00	0.40	0.30	4.65	9.90	8.85	0.27	0.06	0.00	0.00	
14	0.00	0.00	0.00	0.33	0.30	6.75	10.95	6.75	0.24	0.05	0.00	0.00	
15	0.00	0.00	0.00	0.26	0.27	8.85	9.90	3.60	0.26	0.04	0.00	0.00	
16	0.00	0.00	0.00	0.24	0.26	9.95	10.95	1.50	0.26	0.03	0.00	0.00	
17	0.00	0.00	0.00	0.23	0.19	9.90	10.95	1.50	0.26	0.02	0.00	0.00	
18	0.00	0.00	0.00	0.17	0.19	10.95	10.95	1.50	0.26	0.02	0.00	0.00	
19	0.00	0.00	0.00	0.16	0.19	16.30	12.00	2.55	0.22	0.02	0.00	0.00	
20	0.00	0.00	0.00	0.16	0.26	20.60	29.20	3.60	0.20	0.02	0.00	0.00	
21	0.00	0.00	0.00	0.15	0.26	14.15	24.90	4.65	0.20	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.15	0.24	7.80	22.75	2.55	0.24	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.14	0.30	5.70	35.60	1.50	0.23	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.12	0.44	6.75	31.35	1.41	0.26	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.12	0.99	12.00	31.35	1.07	0.26	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.13	0.90	8.85	29.20	0.65	0.22	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.13	0.58	7.80	24.90	0.54	0.15	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.13	0.51	8.85	12.00	0.51	0.17	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.13	0.40	6.75	9.90	0.82	0.22	0.00		0.00	
30	0.00	0.00	0.26	0.13	0.37	6.75	9.90	0.61	0.20	0.00		0.00	
31		0.00		0.22	0.37		9.90		0.20	0.00		0.00	
TOTAL	0.00	0.00	0.26	9.52	13.70	188.34	516.70	153.51	11.33	2.04	0.00	0.00	895.40 CMSDAY
MEAN	0.00	0.00	0.01	0.31	0.44	6.28	16.67	5.12	0.37	0.07	0.00	0.00	2.45 CMS
MAX	0.00	0.00	0.26	0.65	0.99	20.60	35.60	10.95	0.82	0.20	0.00	0.00	35.60 CMS
MIN	0.00	0.00	0.00	0.12	0.19	0.40	5.70	0.51	0.15	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.022	0.823	1.184	16.273	44.643	13.263	0.979	0.176	0.000	0.000	77.362 MCM

MOMENTARY PEAK 37.70 CMS, AT 1.72 M (A.D), AT 18.00 HOURS, ON OCT 23, 1980

RUNOFF YIELD 18.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 287.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI THAP THAN AT BAN YAENG, SURIN (M.101)

LOCATION — LAT. 14°-37'-42" N., LONG. 103°-42'-12" E., ON LEFT BANK AT THE BRIDGE OF CHOK CHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 170-171 AND ABOUT 17 KILOMETERS FROM AMPHOE SANGKHA, BAN YAENG, TAMBON KRATHIAM, AMPHOE SANGKHA, SURIN.

DRAINAGE AREA — 390 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPARTMENT

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +8.945 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

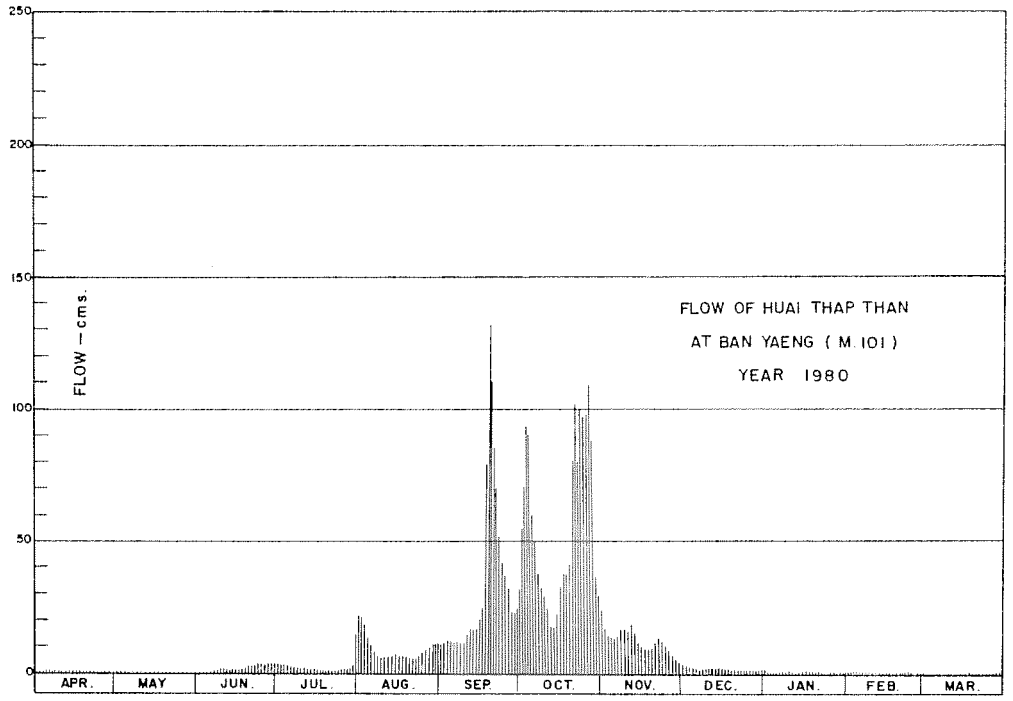
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 43 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.07	4.91	4.94	6.19	6.98	6.70	7.22	6.98	6.17	5.76	5.16	5.01	
2	5.06	4.91	4.95	6.18	6.97	6.71	7.43	6.91	6.11	5.62	5.15	5.01	
3	5.06	4.93	5.03	6.15	6.96	6.72	7.56	6.81	6.06	5.44	5.16	5.04	
4	5.05	4.95	5.04	6.14	6.83	6.73	7.53	6.79	6.01	5.31	5.16	5.04	
5	5.05	4.95	5.22	6.12	6.75	6.72	7.41	6.78	5.97	5.27	5.15	5.04	
6	5.05	4.95	5.52	6.09	6.70	6.72	7.32	6.78	5.96	5.40	5.15	5.03	
7	5.04	4.95	5.56	6.09	6.58	6.73	7.29	6.80	5.89	5.58	5.15	5.03	
8	5.04	4.94	5.65	6.07	6.51	6.71	7.19	6.88	5.83	5.46	5.14	5.03	
9	5.03	4.93	5.67	6.05	6.44	6.69	7.15	6.85	5.84	5.38	5.13	5.02	
10	5.03	4.92	5.78	6.05	6.40	6.69	7.11	6.84	5.94	5.43	5.13	5.02	
11	5.03	4.91	5.84	6.03	6.42	6.82	7.05	6.86	5.97	5.53	5.09	5.02	
12	5.02	4.92	5.88	6.02	6.43	6.87	6.92	6.91	5.93	5.52	5.06	5.01	
13	5.02	4.92	5.88	6.00	6.45	6.86	6.85	6.84	5.89	5.46	5.05	5.00	
14	5.01	4.92	5.85	5.99	6.43	6.86	6.92	6.76	5.87	5.37	5.05	4.99	
15	5.00	4.91	5.85	5.98	6.50	6.91	7.02	6.69	5.83	5.30	5.04	4.99	
16	4.99	4.92	5.84	5.97	6.48	6.95	7.14	6.64	5.87	5.34	5.04	4.98	
17	5.00	4.91	5.82	5.96	6.45	7.03	7.20	6.60	5.90	5.42	5.03	4.97	
18	4.99	4.90	5.85	5.94	6.49	7.32	7.20	6.60	5.83	5.50	5.02	4.97	
19	4.99	4.89	5.95	5.94	6.46	7.58	7.20	6.60	5.80	5.51	5.02	4.96	
20	4.98	4.88	6.03	5.94	6.44	7.71	7.28	6.64	5.85	5.51	5.02	4.95	
21	4.97	4.88	6.07	5.94	6.41	7.55	7.60	6.75	5.90	5.53	5.02	4.95	
22	4.96	4.93	6.17	5.95	6.38	7.46	7.45	6.79	5.88	5.52	5.01	4.94	
23	4.95	4.95	6.19	5.95	6.42	7.39	7.59	6.75	5.87	5.47	5.01	4.93	
24	4.94	4.95	6.20	5.94	6.43	7.26	7.58	6.69	5.83	5.39	5.01	4.93	
25	4.93	4.95	6.19	5.93	6.52	7.21	7.55	6.64	5.79	5.35	5.01	4.92	
26	4.93	4.94	6.17	5.92	6.56	7.15	7.60	6.49	5.84	5.32	5.00	4.91	
27	4.93	4.96	6.15	5.93	6.60	7.09	7.62	6.44	5.83	5.30	5.00	4.90	
28	4.92	4.95	6.18	5.96	6.65	7.03	7.47	6.35	5.81	5.27	5.01	4.95	
29	4.92	4.95	6.20	5.96	6.69	6.97	7.32	6.27	5.78	5.25		4.95	
30	4.92	4.95	6.21	5.98	6.70	7.01	7.17	6.20	5.75	5.21		4.94	
31		4.94		6.66	6.69		7.06		5.82	5.18		4.93	
MEAN	5.00	4.93	5.80	6.03	6.57	7.00	7.29	6.70	5.89	5.42	5.07	4.98	
MAX	5.07	4.96	6.21	6.66	6.98	7.71	7.62	6.98	6.17	5.76	5.16	5.04	7.71
MIN	4.92	4.88	4.94	5.92	6.38	6.69	6.85	6.20	5.75	5.18	5.00	4.90	4.88

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.73 M (A.D), AT 9.00 HOURS, ON SEP 20, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -2.20 M (A.D)
LEFT BANK ELEVATION 8.64 M (A.D)
RIGHT BANK ELEVATION 8.72 M (A.D), DRAINAGE AREA 390 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	3.71	22.04	11.60	39.72	22.04	3.53	1.04	0.00	0.00	
2	0.00	0.00	0.00	3.62	21.56	11.88	68.54	18.68	2.99	0.48	0.00	0.00	
3	0.00	0.00	0.00	3.35	21.08	12.16	93.60	14.78	2.58	0.08	0.00	0.00	
4	0.00	0.00	0.00	3.26	15.54	12.44	87.30	14.12	2.18	0.00	0.00	0.00	
5	0.00	0.00	0.00	3.08	13.00	12.16	64.98	13.84	1.95	0.00	0.00	0.00	
6	0.00	0.00	0.24	2.82	11.60	12.16	51.84	13.84	1.90	0.00	0.00	0.00	
7	0.00	0.00	0.32	2.82	8.84	12.44	47.84	14.40	1.56	0.36	0.00	0.00	
8	0.00	0.00	0.60	2.66	7.58	11.88	36.56	17.44	1.32	0.12	0.00	0.00	
9	0.00	0.00	0.68	2.50	6.56	11.36	33.20	16.30	1.36	0.00	0.00	0.00	
10	0.00	0.00	1.12	2.50	6.00	11.36	29.84	15.92	1.80	0.06	0.00	0.00	
11	0.00	0.00	1.36	2.34	6.28	15.16	26.00	16.68	1.95	0.26	0.00	0.00	
12	0.00	0.00	1.52	2.26	6.42	17.06	19.16	18.68	1.75	0.24	0.00	0.00	
13	0.00	0.00	1.52	2.10	6.70	16.68	16.30	15.92	1.56	0.12	0.00	0.00	
14	0.00	0.00	1.40	2.05	6.42	16.68	19.16	13.28	1.48	0.00	0.00	0.00	
15	0.00	0.00	1.40	2.00	7.40	18.68	24.20	11.36	1.32	0.00	0.00	0.00	
16	0.00	0.00	1.36	1.95	7.12	20.60	32.36	10.16	1.48	0.00	0.00	0.00	
17	0.00	0.00	1.28	1.90	6.70	24.80	37.40	9.20	1.60	0.04	0.00	0.00	
18	0.00	0.00	1.40	1.80	7.26	51.84	37.40	9.20	1.32	0.20	0.00	0.00	
19	0.00	0.00	1.85	1.80	6.84	97.80	37.40	9.20	1.20	0.22	0.00	0.00	
20	0.00	0.00	2.34	1.80	6.56	131.20	46.68	10.16	1.40	0.22	0.00	0.00	
21	0.00	0.00	2.66	1.80	6.14	91.50	102.00	13.00	1.60	0.26	0.00	0.00	
22	0.00	0.00	3.53	1.85	5.76	73.88	72.10	14.12	1.52	0.20	0.00	0.00	
23	0.00	0.00	3.71	1.85	6.28	61.78	99.90	13.00	1.48	0.14	0.00	0.00	
24	0.00	0.00	3.80	1.80	6.42	44.36	97.80	11.36	1.32	0.00	0.00	0.00	
25	0.00	0.00	3.71	1.75	7.76	38.56	91.50	10.16	1.16	0.00	0.00	0.00	
26	0.00	0.00	3.53	1.70	8.48	33.20	102.00	7.26	1.36	0.00	0.00	0.00	
27	0.00	0.00	3.35	1.75	9.20	28.40	107.20	6.56	1.32	0.00	0.00	0.00	
28	0.00	0.00	3.62	1.90	10.40	24.80	75.66	5.40	1.24	0.00	0.00	0.00	
29	0.00	0.00	3.80	1.90	11.36	21.56	51.84	4.50	1.12	0.00		0.00	
30	0.00	0.00	3.90	2.00	11.60	23.60	34.88	3.80	1.00	0.00		0.00	
31		0.00		10.64	11.36		26.60		1.28	0.00		0.00	
TOTAL	0.00	0.00	54.00	79.26	296.26	971.58	1710.96	374.36	50.63	4.04	0.00	0.00	3541.09 CMSDAY
MEAN	0.00	0.00	1.80	2.56	9.56	32.39	55.19	12.48	1.63	0.13	0.00	0.00	9.70 CMS
MAX	0.00	0.00	3.90	10.64	22.04	131.20	107.20	22.04	3.53	1.04	0.00	0.00	131.20 CMS
MIN	0.00	0.00	0.00	1.70	5.76	11.36	16.30	3.80	1.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	4.666	6.848	25.597	83.944	147.827	32.345	4.374	0.349	0.000	0.000	305.950 MCM

MOMENTARY PEAK 137.60 CMS, AT 7.73 M (A.D), AT 9.00 HOURS, ON SEP 20, 1980

RUNOFF YIELD 24.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 352.82 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI SEN AT BAN PHON CHAI, SURIN (M.102)

LOCATION — LAT. 14°-36'-50" N., LONG. 103°-53'-24" E., ON LEFT BANK AT THE BRIDGE OF CHOK CHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 192-193 AND ABOUT 4 KILOMETERS FROM AMPHOE SANGKHA, BAN PHON CHAI, TAMBON SANGKHA, AMPHOE SANGKHA, SURIN.

DRAINAGE AREA — 207 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPARTMENT.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +3.511 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

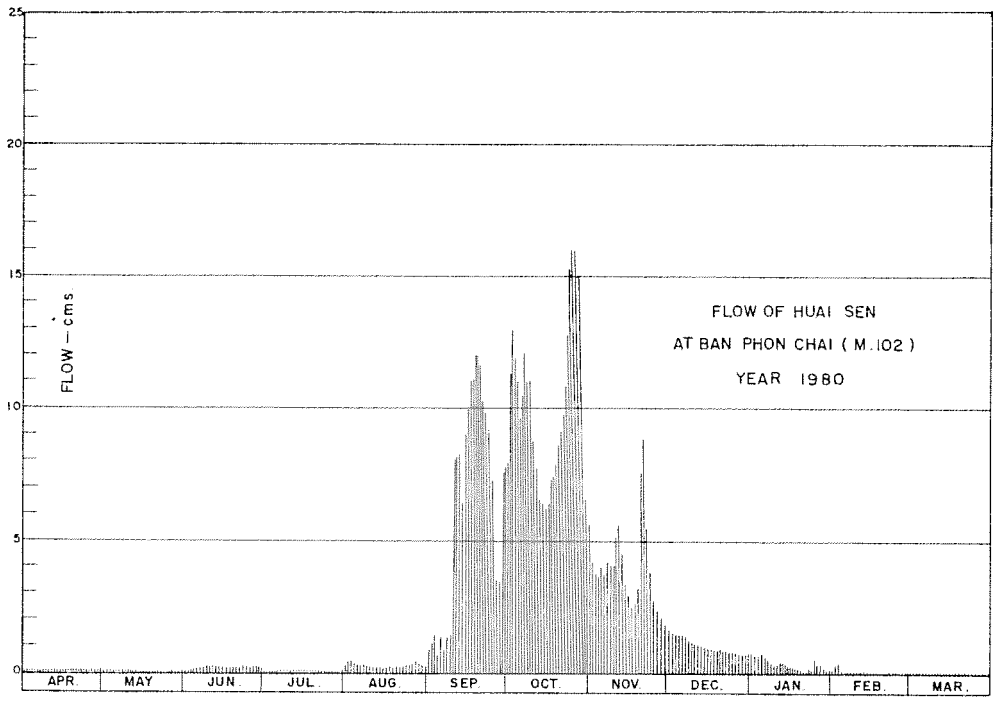
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.07	0.05	0.36	0.81	0.76	1.18	0.82	0.15	-0.11	-0.31	-0.55	
2	0.00	0.08	0.10	0.34	1.05	0.92	1.52	0.70	0.11	-0.15	-0.28	-0.55	
3	0.00	0.09	0.16	0.31	1.04	1.16	1.66	0.60	0.10	-0.18	-0.25	-0.55	
4	0.00	0.10	0.23	0.30	1.00	0.60	1.52	0.54	0.10	-0.15	-0.35	-0.55	
5	0.00	0.17	0.35	0.27	0.87	0.59	1.52	0.64	0.10	-0.12	-0.35	-0.55	
6	0.00	0.17	0.49	0.23	0.76	1.11	1.36	0.58	0.08	-0.16	-0.37	-0.55	
7	0.00	0.12	0.55	0.24	0.90	0.68	1.60	0.57	0.08	-0.17	-0.43	-0.55	
8	0.00	0.09	0.69	0.22	0.94	1.12	1.52	0.66	0.06	-0.20	-0.47	-0.55	
9	0.00	0.09	0.75	0.21	0.84	1.12	1.49	0.64	0.03	-0.24	-0.51	-0.55	
10	0.00	0.08	0.62	0.22	0.73	1.15	1.30	0.60	0.02	-0.29	-0.45	-0.55	
11	0.00	0.04	0.66	0.21	0.73	1.20	1.22	0.82	0.02	-0.26	-0.46	-0.55	
12	0.00	0.03	0.79	0.21	0.72	1.23	1.11	0.89	-0.01	-0.22	-0.47	-0.55	
13	0.00	0.03	0.77	0.20	0.74	1.09	1.00	0.73	0.01	-0.21	-0.47	-0.55	
14	0.00	0.05	0.67	0.20	0.66	0.97	0.92	0.56	0.01	-0.23	-0.48	-0.55	
15	0.00	0.05	0.64	0.18	0.67	1.30	0.97	0.46	-0.02	-0.28	-0.48	-0.55	
16	0.00	0.05	0.65	0.18	0.70	1.43	1.09	0.37	-0.05	-0.29	-0.48	-0.55	
17	0.00	0.04	0.64	0.18	0.74	1.48	1.10	0.32	-0.05	-0.29	-0.48	-0.55	
18	0.00	0.04	0.65	0.16	0.72	1.52	1.11	0.38	-0.06	-0.30	-0.48	-0.55	
19	0.00	0.04	0.65	0.16	0.69	1.56	1.20	0.41	-0.07	-0.31	-0.49	-0.55	
20	0.00	0.04	0.68	0.17	0.75	1.62	1.27	1.12	-0.06	-0.33	-0.49	-0.55	
21	0.00	0.03	0.68	0.17	0.75	1.50	1.31	1.29	-0.07	-0.37	-0.50	-0.55	
22	0.00	0.03	0.70	0.18	0.77	1.40	1.40	1.00	-0.09	-0.38	-0.51	-0.55	
23	0.00	0.03	0.70	0.19	0.75	1.39	1.61	0.73	-0.09	-0.31	-0.54	-0.55	
24	0.00	0.03	0.74	0.19	0.79	1.27	1.85	0.60	-0.09	-0.41	-0.55	-0.55	
25	0.00	0.02	0.67	0.19	0.85	1.10	1.88	0.45	-0.10	-0.20	-0.55	-0.55	
26	0.00	0.02	0.65	0.20	0.92	1.08	1.95	0.35	-0.10	-0.26	-0.55	-0.55	
27	0.00	0.02	0.70	0.24	1.03	0.98	1.87	0.30	-0.11	-0.25	-0.55	-0.55	
28	0.00	0.02	0.69	0.30	1.02	0.99	1.65	0.24	-0.12	-0.31	-0.55	-0.55	
29	0.00	0.01	0.89	0.32	0.95	1.11	1.28	0.21	-0.13	-0.30		-0.55	
30	0.00	0.01	0.60	0.34	0.80	1.15	1.07	0.19	-0.15	-0.31		-0.55	
31		0.01		0.65	0.72		0.94		-0.11	-0.31		-0.55	
MEAN	0.00	0.05	0.59	0.24	0.82	1.15	1.37	0.59	-0.02	-0.25	-0.46	-0.55	
MAX	0.00	0.17	0.89	0.65	1.05	1.62	1.95	1.29	0.15	-0.11	-0.25	-0.55	1.95
MIN	0.00	0.01	0.05	0.16	0.66	0.59	0.94	0.19	-0.15	-0.41	-0.55	-0.55	-0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.97 M (A.D.), AT 6.00 HOURS, ON OCT 6, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.64 M (A.D.)
LEFT BANK ELEVATION 3.25 M (A.D.)
RIGHT BANK ELEVATION 3.25 M (A.D.), DRAINAGE AREA 207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.06	0.23	0.86	7.89	5.14	1.70	0.77	0.18	0.00	
2	0.00	0.00	0.00	0.05	0.45	1.08	11.00	4.40	1.54	0.65	0.26	0.00	
3	0.00	0.00	0.01	0.04	0.44	1.44	13.00	3.85	1.50	0.56	0.35	0.00	
4	0.00	0.00	0.03	0.04	0.40	0.70	11.00	3.52	1.50	0.65	0.10	0.00	
5	0.00	0.00	0.06	0.03	0.25	0.69	11.00	4.07	1.50	0.74	0.10	0.00	
6	0.00	0.00	0.01	0.03	0.23	1.36	9.52	3.74	1.42	0.62	0.06	0.00	
7	0.00	0.00	0.12	0.03	0.30	0.78	12.00	3.68	1.42	0.59	0.00	0.00	
8	0.00	0.00	0.19	0.02	0.34	1.38	11.00	4.18	1.34	0.50	0.00	0.00	
9	0.00	0.00	0.22	0.02	0.27	1.38	11.00	4.07	1.22	0.38	0.00	0.00	
10	0.00	0.00	0.16	0.02	0.21	1.42	8.95	3.85	1.18	0.23	0.00	0.00	
11	0.00	0.00	0.18	0.02	0.21	8.05	8.23	5.14	1.18	0.32	0.00	0.00	
12	0.00	0.00	0.24	0.02	0.21	8.23	7.33	5.63	1.07	0.44	0.00	0.00	
13	0.00	0.00	0.23	0.02	0.22	7.17	6.45	4.58	1.07	0.47	0.00	0.00	
14	0.00	0.00	0.18	0.02	0.18	6.22	6.30	3.63	1.07	0.41	0.00	0.00	
15	0.00	0.00	0.17	0.02	0.18	8.95	6.22	3.10	1.04	0.26	0.00	0.00	
16	0.00	0.00	0.17	0.02	0.20	10.00	6.17	2.65	0.95	0.23	0.00	0.00	
17	0.00	0.00	0.17	0.02	0.22	11.00	7.25	2.40	0.95	0.23	0.00	0.00	
18	0.00	0.00	0.17	0.01	0.21	11.00	7.33	2.70	0.92	0.20	0.00	0.00	
19	0.00	0.00	0.17	0.01	0.19	12.00	8.05	2.85	0.89	0.18	0.00	0.00	
20	0.00	0.00	0.19	0.01	0.22	12.00	8.68	7.41	0.92	0.14	0.00	0.00	
21	0.00	0.00	0.19	0.01	0.22	11.00	9.04	5.86	0.89	0.06	0.00	0.00	
22	0.00	0.00	0.20	0.02	0.23	9.90	9.90	6.45	0.83	0.04	0.00	0.00	
23	0.00	0.00	0.20	0.02	0.22	9.80	12.00	4.58	0.83	0.18	0.00	0.00	
24	0.00	0.00	0.22	0.02	0.24	9.68	15.00	3.85	0.83	0.00	0.00	0.00	
25	0.00	0.00	0.18	0.02	0.27	7.25	16.00	3.05	0.80	0.50	0.00	0.00	
26	0.00	0.00	0.17	0.02	0.32	3.62	16.00	2.55	0.80	0.32	0.00	0.00	
27	0.00	0.00	0.20	0.03	0.43	3.42	15.00	2.30	0.77	0.35	0.00	0.00	
28	0.00	0.00	0.19	0.04	0.42	3.46	13.00	2.06	0.74	0.18	0.00	0.00	
29	0.00	0.00	0.29	0.05	0.35	7.33	6.77	1.94	0.71	0.20		0.00	
30	0.00	0.00	0.15	0.05	0.25	7.65	7.01	1.86	0.65	0.19		0.00	
31		0.00		0.17	0.21		6.00		0.77	0.18		0.00	
TOTAL	0.00	0.00	4.66	0.96	8.40	178.02	306.09	118.09	33.00	10.76	1.05	0.00	661.03 CMSDAY
MEAN	0.00	0.00	0.16	0.03	0.27	5.93	9.87	3.94	1.06	0.35	0.04	0.00	1.81 CMS
MAX	0.00	0.00	0.29	0.17	0.45	12.00	16.00	6.86	1.70	0.77	0.35	0.00	16.00 CMS
MIN	0.00	0.00	0.00	0.01	0.18	0.69	6.00	1.86	0.65	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.403	0.083	0.726	15.381	26.446	10.203	2.851	0.930	0.091	0.000	57.113 MCM

MOMENTARY PEAK 17.00 CMS, AT 1.97 M (A.D), AT 6.00 HOURS, ON OCT 6, 1980

RUNOFF YIELD 8.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MUN RIVER BASIN

HUAI KHOK RAK KUT PLA KHENG AT WAT SA CHORAKHE, NAKHON RATCHASIMA (M.103)

LOCATION — LAT. 15°-10'-13" N., LONG. 101°-48'-59" E., ON RIGHT BANK AT WAT SA CHORAKHE, TAMBON SA CHORAKHE, AMPHOE DAN KHUN THOT, NAKHON RATCHASIMA.

DRAINAGE AREA — 103 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 10 METERS FROM THE SECOND STAFF GAGE.

ELEVATION — +3.938 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

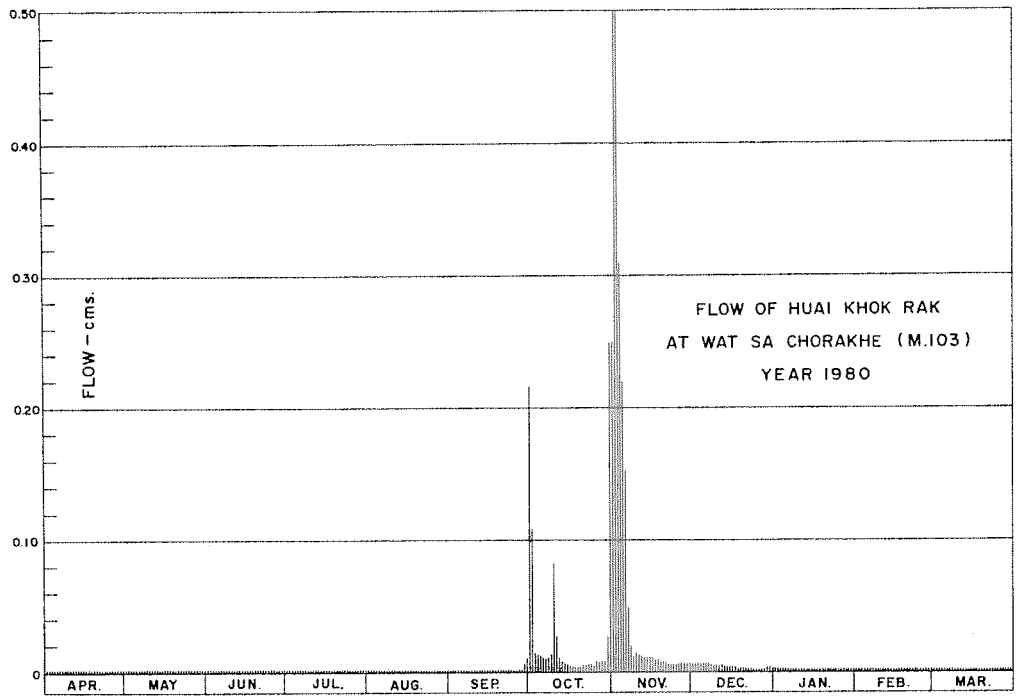
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — STREAM GAGING BEGAN ON JUN 1,1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.15	0.68	0.74	0.65	1.36	1.37	1.14	1.06	0.90	0.76	
2	*******	*******	0.15	0.67	0.73	0.65	1.30	1.42	1.14	1.06	0.90	0.76	
3	*******	*******	0.15	0.67	0.73	0.65	1.29	1.42	1.14	1.04	0.89	0.76	
4	*******	*******	0.15	0.66	0.72	0.65	1.29	1.38	1.14	1.04	0.88	0.76	
5	*******	*******	0.32	0.69	0.71	0.65	1.26	1.36	1.13	1.04	0.87	0.75	
6	*******	*******	0.46	0.68	0.71	0.65	1.24	1.34	1.13	1.04	0.87	0.75	
7	*******	*******	0.58	0.68	0.70	0.65	1.25	1.31	1.13	1.04	0.85	0.75	
8	*******	*******	0.59	0.67	0.70	0.65	1.24	1.29	1.12	1.04	0.85	0.74	
9	*******	*******	0.60	0.66	0.68	0.65	1.29	1.26	1.11	1.04	0.85	0.74	
10	*******	*******	0.61	0.66	0.67	0.70	1.32	1.29	1.10	1.03	0.84	0.73	
11	*******	*******	0.63	0.65	0.66	0.85	1.29	1.28	1.10	1.03	0.83	0.73	
12	*******	*******	0.64	0.64	0.66	0.87	1.22	1.27	1.10	1.03	0.83	0.75	
13	*******	*******	0.66	0.63	0.65	0.85	1.17	1.25	1.09	1.02	0.82	0.74	
14	*******	*******	0.66	0.62	0.65	0.80	1.15	1.25	1.08	1.01	0.81	0.74	
15	*******	*******	0.66	0.62	0.65	0.79	1.13	1.24	1.08	1.00	0.81	0.73	
16	*******	*******	0.66	0.62	0.65	0.78	1.11	1.23	1.08	0.99	0.80	0.73	
17	*******	*******	0.66	0.62	0.64	0.79	1.10	1.21	1.08	0.98	0.79	0.73	
18	*******	*******	0.66	0.62	0.64	0.80	1.10	1.20	1.07	0.97	0.78	0.72	
19	*******	*******	0.65	0.61	0.63	0.83	1.10	1.18	1.07	0.97	0.77	0.71	
20	*******	*******	0.65	0.60	0.62	0.85	1.11	1.17	1.06	0.97	0.77	0.71	
21	*******	*******	0.65	0.60	0.61	0.86	1.12	1.16	1.05	0.96	0.76	0.70	
22	*******	*******	0.66	0.72	0.61	0.97	1.12	1.15	1.04	0.95	0.76	0.69	
23	*******	*******	0.69	0.75	0.61	0.98	1.12	1.15	1.04	0.95	0.75	0.68	
24	*******	*******	0.70	0.76	0.61	0.96	1.13	1.15	1.03	0.94	0.75	0.68	
25	*******	*******	0.70	0.76	0.63	0.96	1.13	1.15	1.03	0.93	0.74	0.66	
26	*******	*******	0.70	0.77	0.62	0.95	1.19	1.15	1.02	0.93	0.76	0.66	
27	*******	*******	0.70	0.78	0.61	0.95	1.19	1.14	1.01	0.92	0.77	0.65	
28	*******	*******	0.69	0.77	0.60	0.98	1.18	1.14	1.00	0.92	0.77	0.65	
29	*******	*******	0.69	0.76	0.60	1.12	1.17	1.14	1.08	0.91		0.64	
30	*******	*******	0.68	0.76	0.65	1.19	1.26	1.14	1.08	0.91		0.63	
31		*******		0.75	0.65		1.37		1.07	0.91		0.62	
MEAN	*******	*******	0.57	0.68	0.66	0.82	1.20	1.24	1.08	0.99	0.81	0.71	
MAX	*******	*******	0.70	0.78	0.74	1.19	1.37	1.42	1.14	1.06	0.90	0.76	1.42
MIN	*******	*******	0.15	0.60	0.60	0.65	1.10	1.14	1.00	0.91	0.74	0.62	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.44 M (A.D), AT 18.00 HOURS, ON NOV 2, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 3.35 M (A.D)
RIGHT BANK ELEVATION 3.70 M (A.D), DRAINAGE AREA 127 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.000	0.000	0.000	0.000	0.216	0.249	0.007	0.003	0.000	0.000	
2	*******	*******	0.000	0.000	0.000	0.000	0.015	0.500	0.007	0.003	0.000	0.000	
3	*******	*******	0.000	0.000	0.000	0.000	0.014	0.500	0.007	0.002	0.000	0.000	
4	*******	*******	0.000	0.000	0.000	0.000	0.014	0.283	0.007	0.002	0.000	0.000	
5	*******	*******	0.000	0.000	0.000	0.000	0.013	0.216	0.006	0.002	0.000	0.000	
6	*******	*******	0.000	0.000	0.000	0.000	0.012	0.149	0.006	0.002	0.000	0.000	
7	*******	*******	0.000	0.000	0.000	0.000	0.012	0.048	0.006	0.002	0.000	0.000	
8	*******	*******	0.000	0.000	0.000	0.000	0.012	0.014	0.006	0.002	0.000	0.000	
9	*******	*******	0.000	0.000	0.000	0.000	0.014	0.013	0.005	0.002	0.000	0.000	
10	*******	*******	0.000	0.000	0.000	0.000	0.082	0.014	0.005	0.001	0.000	0.000	
11	*******	*******	0.000	0.000	0.000	0.000	0.014	0.014	0.005	0.001	0.000	0.000	
12	*******	*******	0.000	0.000	0.000	0.000	0.011	0.013	0.005	0.001	0.000	0.000	
13	*******	*******	0.000	0.000	0.000	0.000	0.008	0.012	0.004	0.001	0.000	0.000	
14	*******	*******	0.000	0.000	0.000	0.000	0.007	0.012	0.004	0.000	0.000	0.000	
15	*******	*******	0.000	0.000	0.000	0.000	0.006	0.012	0.004	0.000	0.000	0.000	
16	*******	*******	0.000	0.000	0.000	0.000	0.005	0.011	0.004	0.000	0.000	0.000	
17	*******	*******	0.000	0.000	0.000	0.000	0.005	0.010	0.004	0.000	0.000	0.000	
18	*******	*******	0.000	0.000	0.000	0.000	0.005	0.010	0.003	0.000	0.000	0.000	
19	*******	*******	0.000	0.000	0.000	0.000	0.005	0.009	0.003	0.000	0.000	0.000	
20	*******	*******	0.000	0.000	0.000	0.000	0.005	0.008	0.003	0.000	0.000	0.000	
21	*******	*******	0.000	0.000	0.000	0.000	0.006	0.008	0.002	0.000	0.000	0.000	
22	*******	*******	0.000	0.000	0.000	0.000	0.006	0.007	0.002	0.000	0.000	0.000	
23	*******	*******	0.000	0.000	0.000	0.000	0.006	0.007	0.002	0.000	0.000	0.000	
24	*******	*******	0.000	0.000	0.000	0.000	0.006	0.007	0.001	0.000	0.000	0.000	
25	*******	*******	0.000	0.000	0.000	0.000	0.006	0.007	0.001	0.000	0.000	0.000	
26	*******	*******	0.000	0.000	0.000	0.000	0.009	0.007	0.001	0.000	0.000	0.000	
27	*******	*******	0.000	0.000	0.000	0.000	0.009	0.007	0.000	0.000	0.000	0.000	
28	*******	*******	0.000	0.000	0.000	0.000	0.009	0.007	0.000	0.000	0.000	0.000	
29	*******	*******	0.000	0.000	0.000	0.006	0.008	0.007	0.004	0.000		0.000	
30	*******	*******	0.000	0.000	0.000	0.009	0.013	0.007	0.004	0.000		0.000	
31		*******		0.000	0.000		0.249		0.003	0.000		0.000	
TOTAL	*******	*******	0.000	0.000	0.000	0.015	0.802	2.168	0.121	0.024	0.000	0.000	******* CMSDAY
MEAN	*******	*******	0.000	0.000	0.000	0.000	0.026	0.072	0.004	0.001	0.000	0.000	******* CMS
MAX	*******	*******	0.000	0.000	0.000	0.009	0.249	0.500	0.007	0.003	0.000	0.000	0.500 CMS
MIN	*******	*******	0.000	0.000	0.000	0.000	0.005	0.007	0.000	0.000	0.000	0.000	******* CMS
RUNOFF	*******	*******	0.000	0.000	0.000	0.001	0.069	0.187	0.010	0.002	0.000	0.000	******* MCM

MOMENTARY PEAK 0.65 CMS, AT 1.44 M (A.D), AT 18.00 HOURS, ON NOV 2, 1980

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 5.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

TONLE SAP RIVER BASIN

HUAI PHROM HOT AT BAN DAN, PRACHIN BURI (TL.1)

LOCATION — LAT. 13°-43'-12" N., LONG. 101°-28'-06" E., ON LEFT BANK NEAR THE BRIDGE OF PRACHIN BURI-ARANYAPRATHET HIGHWAY, ABOUT 7 KILOMETERS WEST OF ARANYAPRATHET, AMPHOE ARANYAPRATHET, PRACHIN BURI.

DRAINAGE AREA — 571 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +6.02 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1964 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1964-1965

RATED BY FLOAT — -

RATED BY CURRENT METER — 1964-1965

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.77 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE DURING 1964-1965.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

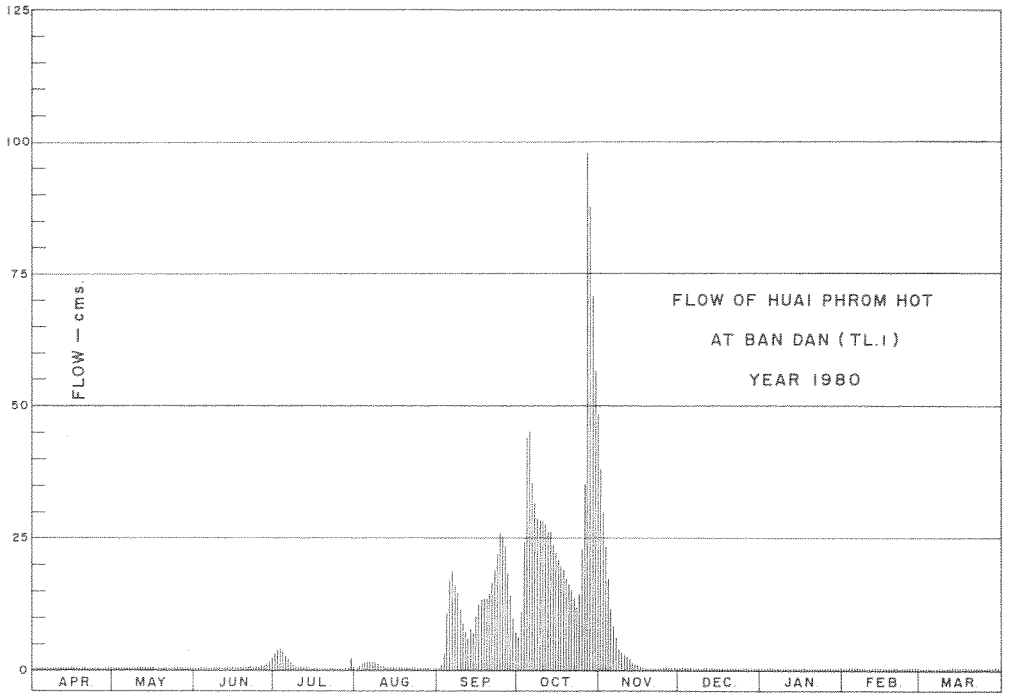
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.93	0.93	0.91	2.59	2.08	1.21	3.02	5.64	1.26	1.05	0.96	1.24	
2	0.92	0.93	0.91	2.73	2.18	2.28	3.39	5.06	1.24	1.00	0.96	1.22	
3	0.92	0.93	0.91	2.73	2.34	2.72	4.58	4.58	1.23	0.99	0.96	1.20	
4	0.91	0.93	0.91	2.58	2.36	3.80	5.89	3.98	1.23	0.99	0.96	1.16	
5	0.91	0.91	0.92	2.50	2.36	4.24	5.91	3.53	1.24	0.99	0.96	1.10	
6	0.90	0.91	0.92	2.38	2.32	4.26	5.52	3.24	1.25	0.98	0.96	1.08	
7	0.90	0.90	0.93	2.18	2.21	4.03	5.19	2.97	1.25	0.98	0.96	1.07	
8	0.90	0.90	0.95	2.03	2.13	3.88	5.07	2.78	1.21	0.98	0.96	1.06	
9	0.90	0.89	0.94	1.95	2.01	3.57	5.04	2.64	1.15	0.97	0.96	1.06	
10	0.90	0.89	0.94	1.84	2.00	3.31	5.05	2.55	1.10	0.97	0.96	1.08	
11	0.90	0.89	1.03	1.47	1.96	3.09	4.97	2.51	1.13	0.97	0.96	1.03	
12	0.89	0.88	1.03	1.35	1.77	2.98	4.86	2.52	1.15	0.97	0.96	0.98	
13	0.89	0.87	1.01	1.29	1.53	3.27	4.90	2.43	1.16	0.97	0.96	0.98	
14	0.89	0.87	1.00	1.24	1.22	3.02	4.66	2.18	1.16	0.97	0.96	0.98	
15	0.89	0.87	0.98	1.14	1.14	3.61	4.54	2.02	1.14	0.97	0.96	0.97	
16	0.88	0.87	0.96	1.10	1.10	3.69	4.44	1.92	1.13	0.96	0.96	0.97	
17	0.88	0.91	0.95	1.08	1.10	3.77	4.34	1.81	1.12	0.96	0.96	0.98	
18	0.88	0.94	0.95	1.08	1.11	3.78	4.27	1.74	1.09	0.96	0.96	0.98	
19	0.88	0.94	0.92	1.03	1.12	3.76	4.15	1.70	1.09	0.96	0.96	0.98	
20	0.89	0.94	0.92	1.01	1.12	3.90	4.01	1.65	1.09	0.96	0.96	0.98	
21	0.89	0.93	0.94	0.99	1.12	4.13	3.90	1.62	1.09	0.96	0.95	0.97	
22	0.89	0.93	1.31	0.99	1.12	4.31	3.83	1.61	1.10	0.96	0.95	0.97	
23	0.89	0.93	1.67	0.99	1.12	4.70	3.70	1.57	1.10	0.96	0.94	0.97	
24	0.90	0.93	2.11	1.03	1.12	4.87	3.90	1.52	1.11	0.96	0.91	0.97	
25	0.90	0.93	2.04	1.26	1.15	4.78	4.58	1.49	1.14	0.96	0.91	0.94	
26	0.96	0.92	2.01	1.29	1.15	4.42	5.49	1.46	1.14	0.96	0.91	0.91	
27	1.06	0.92	2.03	1.25	1.11	3.98	6.47	1.46	1.15	0.96	0.91	0.88	
28	1.03	0.92	2.25	1.29	1.09	3.60	6.39	1.44	1.13	0.96	0.95	0.88	
29	0.99	0.92	2.34	1.49	1.07	3.29	6.28	1.41	1.13	0.96		0.87	
30	0.95	0.91	2.43	1.71	1.06	3.06	6.11	1.32	1.09	0.96		0.88	
31		0.91		1.93	1.06		5.93		1.09	0.96		0.88	
MEAN	0.91	0.91	1.27	1.60	1.53	3.64	4.85	2.41	1.15	0.97	0.95	1.01	
MAX	1.06	0.94	2.43	2.73	2.36	4.87	6.47	5.64	1.26	1.05	0.96	1.24	6.47
MIN	0.88	0.87	0.91	0.99	1.06	1.21	3.02	1.32	1.09	0.96	0.91	0.87	0.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.50 M (A.D), AT 18.00 HOURS, ON OCT 27, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.17 M (A.D)

LEFT BANK ELEVATION 4.76 M (A.D)

RIGHT BANK ELEVATION 4.80 M (A.D), DRAINAGE AREA 571 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	3.44	1.14	0.00	6.36	37.80	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	4.31	1.44	1.74	9.70	28.68	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	4.31	2.00	4.24	22.66	72.66	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	3.38	2.10	14.00	44.29	15.98	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.90	2.10	18.84	45.03	11.10	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	2.20	1.90	19.06	35.56	8.20	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	1.44	1.53	16.53	30.37	5.99	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.99	1.29	14.88	28.81	4.66	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.75	0.93	11.50	28.42	3.74	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.42	0.90	8.90	28.55	3.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.78	6.92	27.51	2.96	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.21	6.06	26.08	3.02	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	8.50	26.60	2.48	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	6.36	23.62	1.44	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	11.91	22.19	0.96	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	12.79	21.04	0.66	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	13.67	19.94	0.33	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	13.78	19.17	0.12	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	13.56	17.85	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	15.10	16.31	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	17.63	15.10	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	19.61	14.33	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	24.10	12.90	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	1.23	0.00	0.00	26.21	15.10	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	1.02	0.00	0.00	25.06	22.66	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.93	0.00	0.00	20.82	35.03	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.99	0.00	0.00	15.98	97.95	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	1.65	0.00	0.00	11.80	83.55	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	2.00	0.00	0.00	8.70	68.60	0.00	0.00	0.00		0.00	
30	0.00	0.00	2.48	0.03	0.00	6.68	55.15	0.00	0.00	0.00		0.00	
31		0.00		0.69	0.00		45.89		0.00	0.00		0.00	
TOTAL	0.00	0.00	10.30	24.36	16.32	394.93	966.31	153.98	0.00	0.00	0.00	0.00	1566.70 CMSDAY
MEAN	0.00	0.00	0.34	0.80	0.53	13.16	31.17	5.13	0.00	0.00	0.00	0.00	4.29 CMS
MAX	0.00	0.00	2.48	4.31	2.10	26.21	97.95	37.80	0.00	0.00	0.00	0.00	97.95 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.890	2.148	1.410	34.122	83.489	13.304	0.000	0.000	0.000	0.000	135.363 MCM

MOMENTARY PEAK 103.50 CMS, AT 6.50 M (A.D), AT 18.00 HOURS, ON OCT 27, 1980

RUNOFF YIELD 7.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 181.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAKHON NAYOK RIVER BASIN

NAKHON NAYOK RIVER AT BAN KHAO KARIANG, NAKHON NAYOK (NY.1B)

LOCATION — LAT. 14°-14'-45" N., LONG. 101°-12'-38" E., ON LEFT BANK ABOUT 700 METERS UPSTREAM FROM NY.1 STATION AT BAN KHAO KARIANG, AMPHOE MUANG, NAKHON NAYOK.

DRAINAGE AREA — 519 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE FENCE OF GAGE OBSERVER'S HOUSE.

ELEVATION — +8.758 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

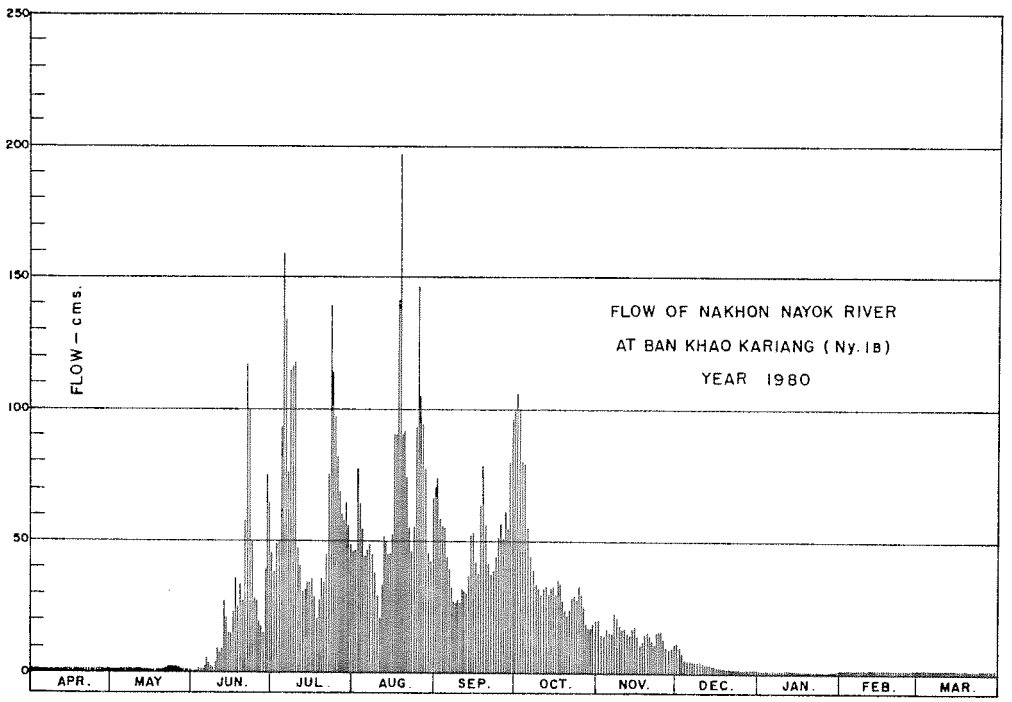
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.45	3.45	3.58	5.10	5.25	5.78	6.28	4.65	4.36	3.67	3.54	3.55	
2	3.46	3.45	3.58	5.07	5.86	5.55	6.38	4.47	4.26	3.66	3.54	3.54	
3	3.47	3.45	3.67	5.33	5.61	5.46	5.90	4.41	4.00	3.65	3.54	3.53	
4	3.47	3.45	3.71	5.35	5.47	5.47	5.90	4.55	3.99	3.63	3.54	3.52	
5	3.46	3.45	3.68	7.22	5.18	5.21	5.48	4.52	4.01	3.62	3.54	3.51	
6	3.46	3.45	4.09	6.47	5.28	5.06	5.25	4.46	4.01	3.62	3.53	3.50	
7	3.46	3.44	3.90	5.82	5.31	4.92	5.13	4.72	4.00	3.61	3.53	3.50	
8	3.46	3.44	3.76	6.51	5.15	4.80	4.99	4.71	3.99	3.60	3.53	3.50	
9	3.46	3.44	3.72	6.56	4.98	4.84	4.98	4.60	3.95	3.60	3.53	3.50	
10	3.46	3.44	4.22	5.56	4.83	4.79	4.91	4.54	3.91	3.60	3.53	3.50	
11	3.45	3.43	4.12	5.14	4.62	4.94	4.87	4.58	3.90	3.59	3.52	3.50	
12	3.45	3.43	4.23	5.07	5.38	4.89	4.95	4.49	3.88	3.58	3.52	3.50	
13	3.45	3.43	4.82	4.87	5.32	4.86	4.87	4.44	3.88	3.57	3.52	3.50	
14	3.46	3.42	4.52	4.98	5.23	5.38	4.89	4.57	3.86	3.57	3.52	3.50	
15	3.46	3.42	4.47	4.96	5.24	5.40	4.94	4.58	3.83	3.57	3.52	3.49	
16	3.46	3.42	4.67	5.03	6.10	5.13	4.87	4.40	3.81	3.56	3.52	3.49	
17	3.50	3.42	5.01	4.81	6.07	5.04	5.01	4.25	3.78	3.56	3.52	3.49	
18	3.49	3.41	4.75	4.62	7.77	5.88	4.96	4.38	3.77	3.56	3.52	3.49	
19	3.48	3.42	4.97	5.02	6.08	5.52	4.80	4.47	3.76	3.56	3.52	3.48	
20	3.47	3.46	4.76	4.96	6.12	5.27	4.76	4.50	3.75	3.56	3.52	3.48	
21	3.49	3.50	6.54	5.00	5.60	5.00	4.69	4.38	3.74	3.55	3.52	3.48	
22	3.49	3.65	6.25	5.41	5.26	5.08	4.78	4.31	3.73	3.55	3.52	3.48	
23	3.49	3.78	5.30	6.92	5.20	5.13	4.87	4.42	3.72	3.55	3.52	3.47	
24	3.49	3.76	4.85	6.41	5.54	5.30	4.82	4.50	3.71	3.55	3.52	3.47	
25	3.48	3.78	4.82	6.05	7.02	5.46	4.94	4.54	3.70	3.55	3.52	3.47	
26	3.47	3.79	4.64	5.76	6.17	5.28	4.82	4.35	3.70	3.55	3.52	3.47	
27	3.46	3.78	4.53	5.56	6.17	5.56	4.67	4.22	3.70	3.55	3.53	3.47	
28	3.46	3.73	4.42	5.47	5.56	5.39	4.58	4.25	3.70	3.55	3.55	3.46	
29	3.46	3.67	5.81	5.62	5.21	5.89	4.54	4.31	3.70	3.55		3.46	
30	3.46	3.63	5.49	5.41	5.13	6.18	4.61	4.34	3.69	3.55		3.46	
31		3.60		5.25	5.63		4.63		3.68	3.55		3.46	
MEAN	3.47	3.53	4.56	5.53	5.59	5.28	5.03	4.46	3.85	3.58	3.53	3.49	
MAX	3.50	3.79	6.54	7.22	7.77	6.18	6.38	4.72	4.36	3.67	3.55	3.55	7.77
MIN	3.45	3.41	3.58	4.62	4.62	4.79	4.54	4.22	3.68	3.55	3.52	3.46	3.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.83 M (MSL), AT 7.00 HOURS, ON AUG 18, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 2.64 M (MSL)
LEFT BANK ELEVATION 10.63 M (MSL)
RIGHT BANK ELEVATION 9.22 M (MSL), DRAINAGE AREA 519 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	0.75	0.97	39.70	46.40	73.40	100.90	20.00	12.00	1.49	0.90	0.92	
2	0.77	0.75	0.97	38.35	77.80	60.87	106.80	14.75	9.60	1.42	0.90	0.90	
3	0.78	0.75	1.49	49.92	64.05	56.15	80.00	13.25	4.75	1.35	0.90	0.88	
4	0.78	0.75	1.78	50.80	56.67	56.67	80.00	16.75	4.63	1.21	0.90	0.87	
5	0.77	0.75	1.56	159.30	43.30	44.64	57.20	16.00	4.87	1.14	0.90	0.85	
6	0.77	0.75	5.87	112.20	47.72	37.90	46.40	14.50	4.87	1.14	0.88	0.83	
7	0.77	0.73	3.50	75.60	49.04	31.60	41.05	22.84	4.75	1.07	0.88	0.83	
8	0.77	0.73	2.18	114.60	41.95	26.20	34.75	22.42	4.63	1.00	0.88	0.83	
9	0.77	0.73	1.86	117.60	34.30	28.00	34.30	18.00	4.13	1.00	0.88	0.83	
10	0.77	0.73	8.70	61.40	27.55	25.78	31.15	16.50	3.63	1.00	0.88	0.83	
11	0.75	0.72	6.45	41.50	18.80	32.50	29.35	17.50	3.50	0.98	0.87	0.83	
12	0.75	0.72	8.93	38.35	52.12	30.25	32.95	15.25	3.30	0.97	0.87	0.83	
13	0.75	0.72	27.10	29.35	49.48	28.90	29.35	14.00	3.30	0.95	0.87	0.83	
14	0.77	0.70	16.00	34.30	45.52	52.12	30.25	17.25	3.10	0.95	0.87	0.83	
15	0.77	0.70	14.75	33.40	45.96	53.00	32.50	17.50	2.80	0.95	0.87	0.82	
16	0.77	0.70	20.80	36.55	91.00	41.05	29.35	13.00	2.60	0.93	0.87	0.82	
17	0.83	0.70	35.65	26.65	89.35	37.00	35.65	9.38	2.34	0.93	0.87	0.82	
18	0.82	0.68	24.10	18.80	196.90	78.90	33.40	12.50	2.26	0.93	0.87	0.82	
19	0.80	0.70	33.85	36.10	89.90	59.30	26.20	14.75	2.18	0.93	0.87	0.80	
20	0.78	0.77	24.52	33.40	92.10	47.28	24.52	15.50	2.10	0.93	0.87	0.80	
21	0.82	0.83	116.40	35.20	63.50	35.20	21.60	12.50	2.02	0.92	0.87	0.80	
22	0.82	1.35	99.25	53.53	46.84	38.80	25.36	10.75	1.94	0.92	0.87	0.80	
23	0.82	2.34	48.60	139.80	44.20	41.05	29.35	13.50	1.86	0.92	0.87	0.78	
24	0.82	2.18	28.45	108.60	60.35	48.60	27.10	15.50	1.78	0.92	0.87	0.78	
25	0.80	2.34	27.10	88.25	146.30	56.15	32.50	16.50	1.70	0.92	0.87	0.78	
26	0.78	2.42	19.60	72.30	94.85	47.72	27.10	11.75	1.70	0.92	0.87	0.78	
27	0.77	2.34	16.25	61.40	94.85	61.40	20.80	8.70	1.70	0.92	0.88	0.78	
28	0.77	1.94	13.50	56.67	61.40	52.56	17.50	9.38	1.70	0.92	0.92	0.77	
29	0.77	1.49	75.05	64.60	44.64	79.45	16.50	10.75	1.70	0.92		0.77	
30	0.77	1.21	57.73	53.53	41.05	95.40	18.40	11.50	1.63	0.92		0.77	
31		1.00		46.40	65.15		19.20		1.56	0.92		0.77	
TOTAL	23.43	33.97	742.96	1928.15	2023.04	1457.84	1171.48	442.47	104.63	31.39	24.62	25.35	8009.32 CMSDAY
MEAN	0.78	1.10	24.77	62.20	65.26	48.59	37.79	14.75	3.38	1.01	0.88	0.82	21.94 CMS
MAX	0.83	2.42	116.40	159.30	196.90	95.40	106.80	22.84	12.00	1.49	0.92	0.92	196.90 CMS
MIN	0.75	0.68	0.97	18.80	18.80	25.78	16.50	8.70	1.56	0.92	0.87	0.77	0.68 CMS
RUNOFF	2.024	2.935	64.192	166.592	174.790	125.957	101.216	38.229	9.040	2.712	2.127	2.190	692.005 MCM

MOMENTARY PEAK 275.25 CMS, AT 8.83 M (MSL), AT 7.00 HOURS, ON AUG 18, 1980

RUNOFF YIELD 42.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 530.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

NAKHON NAYOK RIVER BASIN

KHLONG BAN NA AT BAN PA KHA, NAKHON NAYOK (NY.3)

LOCATION — LAT. 14°-17'-07" N., LONG. 100°-04'-26" E., ON LEFT BANK NEAR WAT BAN PA KHA, TAMBON PA KHA, AMPHOE BAN NA, NAKHON NAYOK.

DRAINAGE AREA — 203 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-R.I.D.

LOCATION — ABOUT 10 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +5.168 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

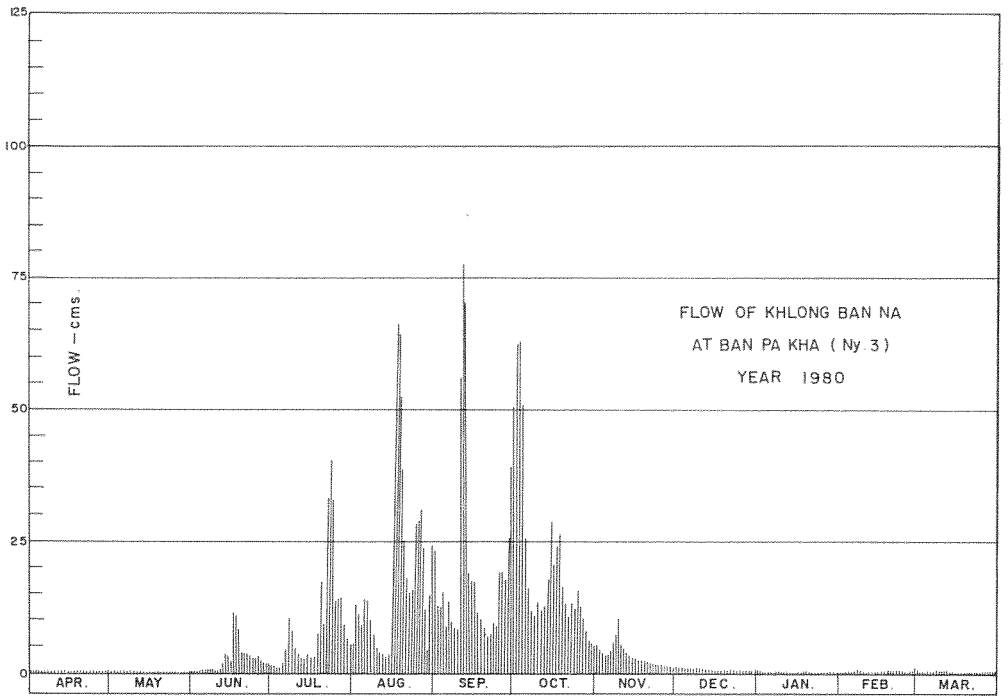
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.53	0.47	0.31	0.94	1.39	2.82	4.52	1.45	0.92	0.72	0.61	0.81	
2	0.52	0.45	0.32	0.92	2.14	2.22	4.80	1.34	0.89	0.75	0.60	0.66	
3	0.52	0.46	0.32	0.86	2.03	1.94	4.86	1.29	0.88	0.69	0.60	0.60	
4	0.55	0.43	0.36	0.85	1.92	2.29	3.94	1.24	0.86	0.71	0.60	0.61	
5	0.55	0.42	0.44	0.88	1.63	1.51	3.14	1.23	0.86	0.68	0.60	0.63	
6	0.55	0.41	0.47	1.23	2.22	2.16	2.59	1.21	0.85	0.68	0.60	0.66	
7	0.55	0.40	0.54	1.44	2.18	2.00	2.30	1.45	0.84	0.68	0.61	0.71	
8	0.55	0.39	0.76	1.90	1.83	1.80	1.97	1.49	0.85	0.77	0.74	0.73	
9	0.55	0.37	0.75	1.73	1.62	1.71	1.92	1.88	0.83	0.66	0.70	0.74	
10	0.54	0.34	0.73	1.43	1.36	1.70	2.16	1.57	0.82	0.65	0.60	0.74	
11	0.53	0.35	0.74	1.26	1.30	4.55	1.98	1.37	0.84	0.69	0.63	0.75	
12	0.52	0.37	0.81	1.19	1.24	5.39	2.14	1.29	0.83	0.73	0.60	0.76	
13	0.52	0.38	1.02	1.09	1.19	3.46	1.99	1.24	0.82	0.65	0.71	0.69	
14	0.51	0.38	1.24	1.17	1.19	2.61	2.50	1.18	0.81	0.66	0.66	0.57	
15	0.51	0.38	1.07	1.24	1.16	2.43	2.85	1.17	0.82	0.70	0.66	0.56	
16	0.52	0.37	1.01	1.11	2.09	2.43	2.29	1.14	0.79	0.65	0.66	0.57	
17	0.54	0.36	1.97	1.17	3.33	2.02	2.84	1.08	0.77	0.70	0.66	0.56	
18	0.53	0.35	1.93	1.22	4.96	1.94	2.99	1.08	0.77	0.72	0.69	0.55	
19	0.53	0.34	1.60	1.79	4.80	1.88	2.47	1.07	0.82	0.70	0.71	0.54	
20	0.52	0.33	1.22	2.41	3.10	1.68	2.25	1.05	0.78	0.66	0.72	0.54	
21	0.52	0.34	1.24	1.89	2.37	1.55	1.98	1.06	0.77	0.72	0.72	0.55	
22	0.52	0.34	1.22	1.50	1.91	1.57	1.87	1.04	0.77	0.69	0.72	0.55	
23	0.51	0.33	1.20	3.35	1.91	1.81	2.15	0.96	0.75	0.65	0.73	0.54	
24	0.51	0.32	1.10	3.76	1.92	1.73	1.99	0.96	0.74	0.63	0.69	0.54	
25	0.50	0.32	1.13	2.86	3.12	2.20	2.33	0.95	0.77	0.65	0.62	0.55	
26	0.49	0.32	1.17	2.15	3.15	2.57	2.19	0.95	0.74	0.65	0.62	0.54	
27	0.48	0.33	1.08	2.20	3.27	2.52	1.92	0.94	0.77	0.67	0.73	0.53	
28	0.48	0.32	1.03	1.96	2.82	2.43	1.72	0.94	0.73	0.71	0.86	0.55	
29	0.48	0.31	0.99	1.70	1.28	2.91	1.58	0.89	0.75	0.71		0.54	
30	0.48	0.31	0.99	1.58	2.08	3.95	1.44	0.89	0.72	0.61		0.53	
31		0.30		1.45	2.86		1.41		0.70	0.62		0.53	
MEAN	0.52	0.36	0.96	1.62	2.24	2.39	2.49	1.18	0.80	0.68	0.67	0.61	
MAX	0.55	0.47	1.97	3.76	4.96	5.39	4.86	1.88	0.92	0.77	0.86	0.81	5.39
MIN	0.48	0.30	0.31	0.85	1.16	1.51	1.41	0.89	0.70	0.61	0.60	0.53	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.25 M (A.D), AT 18.00 HOURS, ON SEP 11, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 6.47 M (A.D)
RIGHT BANK ELEVATION 6.42 M (A.D), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.08	0.00	1.63	5.26	23.38	55.74	5.80	1.49	0.57	0.23	0.90	
2	0.12	0.07	0.01	1.49	13.35	14.38	62.20	4.81	1.30	0.68	0.20	0.38	
3	0.12	0.08	0.01	1.15	12.01	10.93	63.64	4.36	1.25	0.47	0.20	0.20	
4	0.15	0.06	0.03	1.10	10.69	15.36	43.60	3.94	1.15	0.53	0.20	0.23	
5	0.15	0.06	0.07	1.25	7.51	6.34	28.78	3.85	1.15	0.44	0.20	0.29	
6	0.15	0.05	0.08	3.85	14.38	13.60	19.70	3.68	1.10	0.44	0.20	0.38	
7	0.15	0.05	0.14	5.71	13.85	11.65	15.50	5.80	1.05	0.44	0.23	0.53	
8	0.15	0.04	0.71	10.45	9.68	9.35	11.29	6.16	1.10	0.75	0.64	0.60	
9	0.15	0.03	0.68	8.58	7.41	8.36	10.69	10.23	1.00	0.38	0.50	0.64	
10	0.14	0.02	0.60	5.62	4.99	8.25	13.60	6.91	0.95	0.35	0.20	0.64	
11	0.13	0.02	0.64	4.11	4.45	56.40	11.41	5.08	1.05	0.47	0.29	0.68	
12	0.12	0.03	0.90	3.52	3.94	77.43	13.35	4.36	1.00	0.60	0.20	0.71	
13	0.12	0.04	2.20	2.72	3.52	34.48	11.53	3.94	0.95	0.35	0.53	0.47	
14	0.11	0.04	3.94	3.36	3.52	20.01	18.35	3.44	0.90	0.38	0.38	0.17	
15	0.11	0.04	2.57	3.94	3.28	17.33	23.87	3.36	0.95	0.50	0.38	0.16	
16	0.12	0.03	2.12	2.88	12.73	17.33	15.36	3.12	0.81	0.35	0.38	0.17	
17	0.14	0.03	11.29	3.36	32.14	11.89	23.71	2.65	0.75	0.50	0.38	0.16	
18	0.13	0.02	10.81	3.77	66.10	10.93	26.23	2.65	0.75	0.57	0.47	0.15	
19	0.13	0.02	7.20	9.24	62.20	10.23	17.91	2.57	0.95	0.50	0.53	0.14	
20	0.12	0.02	3.77	17.04	28.10	8.04	14.80	2.42	0.78	0.38	0.57	0.14	
21	0.12	0.02	3.94	10.34	16.48	6.72	11.41	2.50	0.75	0.57	0.57	0.15	
22	0.12	0.02	3.77	6.25	10.57	6.91	10.12	2.35	0.75	0.47	0.57	0.15	
23	0.11	0.02	3.60	32.50	10.57	9.46	13.47	1.77	0.68	0.35	0.60	0.14	
24	0.11	0.01	2.80	40.14	10.69	8.58	11.53	1.77	0.64	0.29	0.47	0.14	
25	0.10	0.01	3.04	24.04	28.44	14.10	15.92	1.70	0.75	0.35	0.26	0.15	
26	0.09	0.01	3.36	13.47	28.95	19.40	13.97	1.70	0.64	0.35	0.26	0.14	
27	0.09	0.02	2.65	14.10	31.06	18.65	10.69	1.63	0.75	0.41	0.60	0.13	
28	0.09	0.01	2.27	11.17	23.38	17.33	8.47	1.63	0.60	0.53	1.15	0.15	
29	0.09	0.00	1.98	8.25	4.28	24.87	7.01	1.30	0.68	0.53		0.14	
30	0.09	0.00	1.98	7.01	12.61	43.80	5.71	1.30	0.57	0.23		0.13	
31		0.00		5.80	24.04		5.44		0.50	0.26		0.13	
TOTAL	3.65	0.95	77.16	267.84	520.18	555.49	615.00	106.78	27.74	13.99	11.39	9.29	2209.46 CMSDAY
MEAN	0.12	0.03	2.57	8.64	16.78	18.52	19.84	3.56	0.89	0.45	0.41	0.30	6.05 CMS
MAX	0.15	0.08	11.29	40.14	66.10	77.43	63.64	10.23	1.49	0.75	1.15	0.90	77.43 CMS
MIN	0.09	0.00	0.00	1.10	3.28	6.34	5.44	1.30	0.50	0.23	0.20	0.13	0.00 CMS
RUNOFF	0.315	0.082	6.667	23.141	44.943	47.994	53.136	9.226	2.397	1.209	0.984	0.803	190.897 MCM

MOMENTARY PEAK 105.00 CMS, AT 6.25 M (A.D), AT 18.00 HOURS, ON SEP 11, 1980

RUNOFF YIELD 29.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 517.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

PRACHIN BURI RIVER AT KABIN BURI, PRACHIN BURI (KGT.3)

LOCATION — LAT. 13°-59'-05" N., LONG. 101°-42'-32" E., ON LEFT BANK INFRONT OF AMPHOE KABIN BURI OFFICE AND ABOUT 500 METERS DOWNSTREAM FROM THE CONFLUENCE OF LAM PRONG AND LAM HANUMAN, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA — 7,502 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — -0.49 M. (M.S.L.)

BENCH MARK — B.M.-R.I.D.

LOCATION — ON LEFT BANK AT THE FENCE OF AMPHOE KABIN BURI OFFICE.

ELEVATION — +10.795 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1941 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1941-1943, 1945, 1964 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1941-1943, 1945, 1964 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 49 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

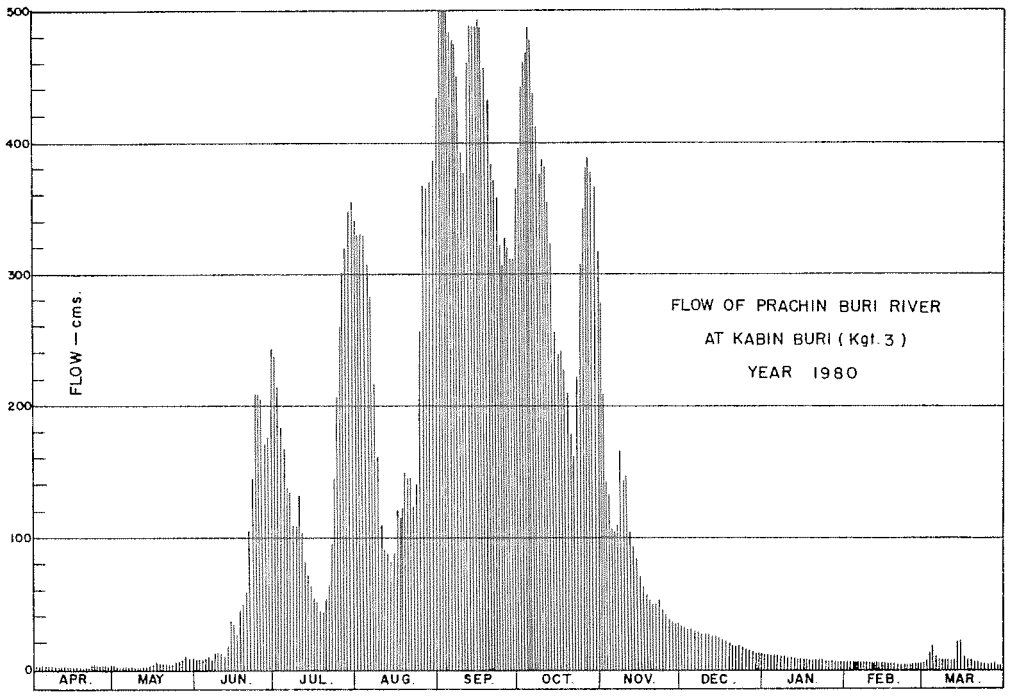
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.47	0.78	5.34	6.59	8.22	7.31	5.65	1.79	1.02	0.70	0.60	
2	0.46	0.44	0.77	4.97	6.61	8.69	7.89	4.79	1.74	1.01	0.69	0.65	
3	0.48	0.43	0.70	4.71	6.61	8.68	8.12	4.17	1.71	0.99	0.68	0.83	
4	0.46	0.42	0.67	4.32	6.46	8.49	8.22	3.73	1.70	0.97	0.68	1.27	
5	0.47	0.45	0.81	3.91	6.29	8.39	8.43	3.42	1.66	0.96	0.69	1.04	
6	0.47	0.44	0.80	3.87	5.87	8.35	8.21	3.28	1.64	0.95	0.67	0.86	
7	0.45	0.43	0.73	3.62	5.27	8.30	7.81	3.38	1.61	0.93	0.67	0.81	
8	0.44	0.42	0.91	3.38	4.55	7.93	7.47	4.34	1.59	0.90	0.66	0.78	
9	0.46	0.41	1.04	3.39	4.01	7.44	7.15	3.91	1.57	0.88	0.66	0.86	
10	0.46	0.42	1.02	3.80	3.50	6.91	7.32	4.03	1.57	0.86	0.65	0.85	
11	0.45	0.42	0.92	3.43	3.21	7.24	7.26	3.64	1.55	0.85	0.64	0.76	
12	0.45	0.42	0.90	3.02	3.00	8.13	6.95	3.30	1.53	0.84	0.63	0.72	
13	0.45	0.45	1.21	2.73	2.97	8.46	6.51	3.13	1.53	0.83	0.65	0.72	
14	0.45	0.54	1.80	2.61	2.85	8.43	6.03	2.93	1.52	0.82	0.64	1.41	
15	0.43	0.53	1.78	2.46	2.98	8.43	5.65	2.75	1.48	0.81	0.63	1.36	
16	0.42	0.58	1.57	2.29	3.60	8.50	5.42	2.58	1.45	0.80	0.62	0.97	
17	0.42	0.61	1.51	2.25	3.50	8.41	5.47	2.48	1.44	0.80	0.60	0.85	
18	0.43	0.56	2.05	2.09	3.66	8.08	5.31	2.38	1.41	0.79	0.60	0.78	
19	0.42	0.56	2.24	2.02	4.07	7.95	5.10	2.29	1.37	0.78	0.59	0.74	
20	0.41	0.61	2.38	2.26	3.98	7.63	4.78	2.24	1.33	0.78	0.59	0.70	
21	0.41	0.57	2.77	2.42	4.00	7.28	4.52	2.19	1.30	0.77	0.59	0.67	
22	0.43	0.55	3.59	2.77	3.82	7.09	4.26	2.22	1.29	0.77	0.58	0.62	
23	0.58	0.53	4.57	3.39	3.56	6.96	5.11	2.28	1.31	0.76	0.56	0.61	
24	0.55	0.65	5.00	4.56	4.39	6.55	6.28	2.12	1.28	0.74	0.57	0.60	
25	0.52	0.63	4.95	5.35	6.13	6.31	6.57	2.01	1.22	0.73	0.57	0.59	
26	0.49	0.68	4.78	5.99	7.09	6.58	7.20	1.94	1.17	0.74	0.57	0.60	
27	0.47	0.88	4.41	6.47	7.05	6.49	7.33	1.89	1.15	0.73	0.60	0.66	
28	0.46	0.88	4.53	6.51	7.03	6.38	7.20	1.85	1.12	0.72	0.60	0.59	
29	0.54	0.85	4.94	6.81	7.14	6.37	7.13	1.82	1.09	0.72		0.56	
30	0.51	0.81	5.45	6.94	7.31	7.00	7.03	1.81	1.07	0.71		0.56	
31		0.76		6.77	7.63		6.62		1.04	0.70		0.55	
MEAN	0.46	0.56	2.32	4.01	4.99	7.66	6.63	2.95	1.43	0.83	0.63	0.78	
MAX	0.58	0.88	5.45	6.94	7.63	8.69	8.43	5.65	1.79	1.02	0.70	1.41	8.69
MIN	0.41	0.41	0.67	2.02	2.85	6.31	4.26	1.81	1.04	0.70	0.56	0.55	0.41

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.73 M (MSL), AT 18.00 HOURS, ON SEP 2, 1980

ZERO GAGE AT BOTTOM ELEVATION — -0.49 M (MSL), RIVER BED — 0.10 M (MSL)

LEFT BANK ELEVATION — 10.90 M (MSL)

RIGHT BANK ELEVATION — 9.29 M (MSL), DRAINAGE AREA — 7502 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.1	2.3	8.1	232.8	328.2	467.8	385.9	254.5	34.5	12.6	6.6	4.7	
2	2.1	1.8	7.9	206.9	329.8	510.1	438.1	194.3	32.5	12.4	6.4	5.7	
3	2.5	1.6	6.6	188.7	329.8	509.2	458.8	155.2	31.4	12.1	6.2	9.1	
4	2.1	1.4	6.1	164.2	317.8	492.1	467.8	128.8	31.0	11.7	6.2	18.1	
5	2.3	1.9	8.7	139.6	304.2	483.1	486.7	110.2	29.8	11.5	6.4	13.0	
6	2.3	1.8	8.5	137.2	270.6	479.5	466.9	103.0	29.2	11.3	6.1	9.6	
7	1.9	1.6	7.2	122.2	227.9	475.0	430.9	109.0	28.3	10.9	6.1	8.7	
8	1.8	1.4	10.6	108.0	178.0	441.7	400.3	165.4	27.7	10.4	5.9	8.1	
9	2.1	1.2	13.0	108.5	145.6	397.6	373.0	139.6	27.1	10.0	5.9	9.6	
10	2.1	1.4	12.6	133.0	115.0	353.8	386.8	146.8	27.1	9.6	5.7	9.4	
11	1.9	1.4	10.7	110.8	99.5	380.2	381.8	123.4	26.5	9.4	5.5	7.8	
12	1.9	1.4	10.4	90.0	89.0	459.7	357.0	104.0	25.9	9.2	5.3	7.0	
13	1.9	1.9	16.3	75.5	87.5	489.4	321.8	95.5	25.9	9.1	5.7	7.0	
14	1.9	3.6	34.8	69.5	81.5	486.7	283.4	85.5	25.6	8.9	5.5	22.3	
15	1.6	3.4	34.1	62.0	88.0	486.7	254.5	76.5	24.4	8.7	5.3	20.8	
16	1.4	4.4	27.1	53.6	121.0	493.0	238.4	68.0	23.5	8.5	5.1	11.7	
17	1.4	4.9	25.3	52.1	115.0	484.9	241.9	63.0	23.2	8.5	4.7	9.4	
18	1.6	4.0	44.4	45.9	124.6	455.2	230.7	58.0	22.3	8.3	4.7	8.1	
19	1.4	4.0	51.7	43.3	149.2	443.5	216.0	53.6	21.1	8.1	4.6	7.4	
20	1.2	4.9	58.0	52.5	143.8	414.7	193.6	51.7	19.9	8.1	4.6	6.6	
21	1.2	4.2	77.5	60.0	145.0	383.4	176.2	49.8	19.0	7.9	4.6	6.1	
22	1.6	3.8	120.4	77.5	134.2	368.2	160.6	50.9	18.7	7.9	4.4	5.1	
23	4.4	3.4	179.2	108.5	118.6	357.8	216.7	53.2	19.3	7.8	4.0	4.9	
24	3.8	5.7	209.0	178.6	168.4	325.0	303.4	47.1	18.4	7.4	4.2	4.7	
25	3.3	5.3	205.5	233.5	291.4	305.8	326.6	42.9	16.6	7.2	4.2	4.6	
26	2.7	6.2	193.6	280.2	368.2	327.4	377.0	40.2	15.4	7.4	4.2	4.7	
27	2.3	10.0	169.6	318.6	365.0	320.2	387.7	38.3	15.1	7.2	4.7	5.9	
28	2.1	10.0	176.8	321.8	363.4	311.4	377.0	36.7	14.5	7.0	4.7	4.6	
29	3.6	9.4	204.8	345.8	372.2	310.6	371.4	35.6	13.9	7.0		4.0	
30	3.1	8.7	240.5	356.2	385.9	361.0	363.4	35.2	13.6	6.8		4.0	
31		7.8		342.6	414.7		330.6		13.0	6.6		3.8	
TOTAL	65.6	124.8	2179.0	4819.6	6773.0	12574.7	10404.9	2714.9	714.4	279.5	147.5	256.5	41054.3 CMSDAY
MEAN	2.2	4.0	72.6	155.5	218.5	419.2	335.6	90.5	23.0	9.0	5.3	8.3	112.5 CMS
MAX	4.4	10.0	240.5	356.2	414.7	510.1	486.7	254.5	34.5	12.6	6.6	22.3	510.1 CMS
MIN	1.2	1.2	6.1	43.3	81.5	305.8	160.6	35.2	13.0	6.6	4.0	3.8	1.2 CMS
RUNOFF	5.67	10.78	188.27	416.41	585.19	1086.45	898.98	234.57	61.72	24.15	12.74	22.16	3547.09 MCM

MOMENTARY PEAK 513.70 CMS, AT 8.73 M (MSL), AT 18.00 HOURS, ON SEP 2, 1980

RUNOFF YIELD 14.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 68.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

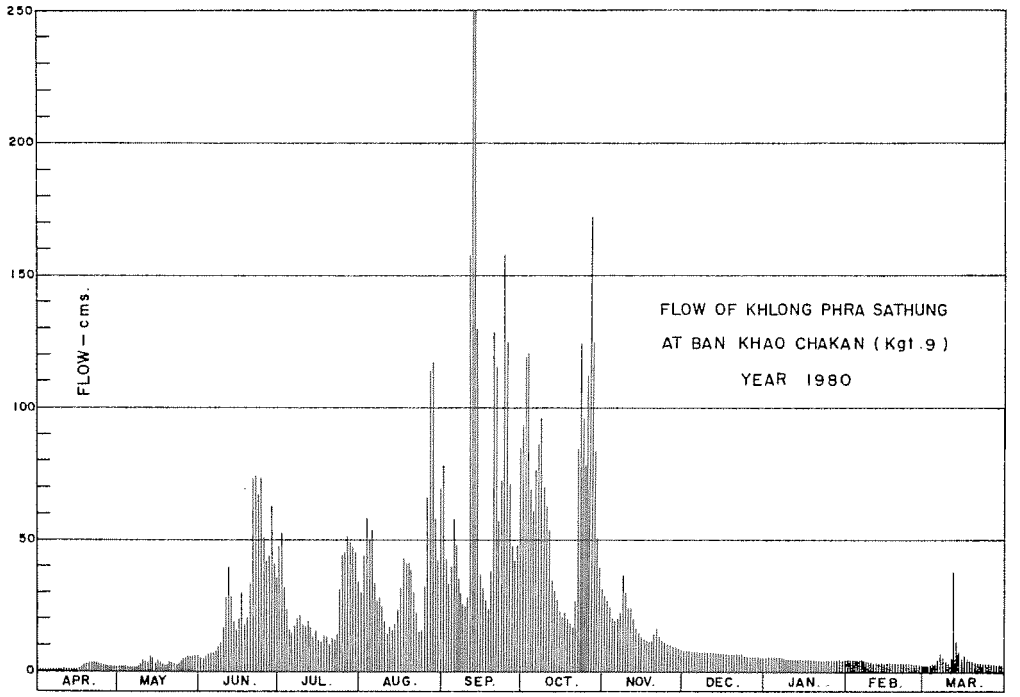
KHLONG PHRA SATHUNG AT BAN KHAO CHAKAN, PRACHIN BURI (KGT.9)

LOCATION	LAT. 13°-40'-10" N., LONG. 102°-04'-35" E., ON RIGHT BANK INFRONT OF WAT KHAO CHAKAN, BAN KHAO CHAKAN, AMPHOE SAKAEO, PRACHIN BURI.
DRAINAGE AREA	2,279 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=H.D.
LOCATION	NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+9.020 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967-1970, 1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969-1970
RATED BY FLOAT	-
RATED BY CURRENT METER	1969-1970
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 269 DISCHARGE MEASUREMENTS MADE DURING 1969-1970.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.27	0.64	2.88	2.07	3.96	3.99	2.00	0.87	0.61	0.51	0.36	
2	0.26	0.30	0.52	2.98	2.37	2.67	5.21	1.92	0.85	0.60	0.51	0.35	
3	0.26	0.28	0.62	2.24	3.22	2.21	5.26	1.75	0.84	0.60	0.51	0.40	
4	0.28	0.27	0.69	1.70	2.88	2.40	3.62	1.57	0.82	0.59	0.51	0.41	
5	0.27	0.29	0.72	1.37	3.03	3.20	3.33	1.49	0.81	0.59	0.50	0.40	
6	0.26	0.28	0.75	1.29	2.33	2.82	3.84	1.50	0.80	0.59	0.50	0.53	
7	0.26	0.28	0.80	1.42	1.91	2.21	4.19	1.70	0.79	0.58	0.50	0.80	
8	0.25	0.26	0.93	1.55	1.96	1.88	4.52	2.31	0.78	0.58	0.50	0.71	
9	0.24	0.29	1.12	1.63	1.73	1.81	3.72	1.97	0.77	0.58	0.49	0.54	
10	0.24	0.57	1.45	1.49	1.48	2.02	3.41	1.79	0.76	0.57	0.48	0.47	
11	0.23	0.52	2.22	1.34	1.25	5.32	3.02	1.75	0.75	0.57	0.47	0.61	
12	0.23	0.44	2.45	1.49	1.40	8.65	2.39	1.50	0.74	0.57	0.46	2.36	
13	0.22	0.67	1.90	1.34	1.36	8.50	2.09	1.37	0.74	0.56	0.45	1.08	
14	0.23	0.59	1.54	1.16	1.54	5.16	1.85	1.27	0.73	0.56	0.44	0.85	
15	0.25	0.48	1.34	1.28	1.86	2.38	1.65	1.21	0.72	0.56	0.44	0.71	
16	0.28	0.51	1.59	1.11	2.15	2.05	1.61	1.14	0.72	0.55	0.43	0.63	
17	0.33	0.42	2.00	1.06	2.61	1.91	1.65	1.10	0.71	0.55	0.43	0.58	
18	0.39	0.35	1.47	1.26	2.54	1.73	1.60	1.07	0.70	0.55	0.42	0.53	
19	0.40	0.34	1.57	1.11	2.09	2.68	1.46	1.07	0.70	0.55	0.42	0.50	
20	0.43	0.33	2.42	0.97	2.42	5.48	1.42	1.30	0.69	0.54	0.42	0.48	
21	0.44	0.35	3.77	1.16	2.06	5.11	1.56	1.35	0.69	0.54	0.41	0.47	
22	0.43	0.47	3.80	1.12	1.59	3.17	4.17	1.18	0.68	0.54	0.40	0.45	
23	0.41	0.43	3.55	1.27	1.33	3.78	5.37	1.08	0.67	0.54	0.40	0.43	
24	0.37	0.38	3.77	2.03	1.38	6.55	4.54	1.04	0.67	0.53	0.39	0.42	
25	0.33	0.34	3.11	2.62	2.17	6.38	3.94	0.99	0.66	0.53	0.38	0.40	
26	0.30	0.46	2.54	2.67	3.80	3.92	5.46	0.97	0.66	0.53	0.38	0.40	
27	0.28	0.60	2.60	2.94	5.07	2.96	6.66	0.95	0.65	0.53	0.37	0.41	
28	0.27	0.62	3.39	2.85	5.18	2.55	5.19	0.93	0.64	0.52	0.36	0.43	
29	0.25	0.64	2.58	2.73	3.50	2.83	2.94	0.90	0.64	0.52		0.40	
30	0.25	0.70	2.31	2.69	2.58	4.16	2.40	0.88	0.63	0.52		0.39	
31		0.79		2.27	3.66		2.13		0.62	0.52		0.39	
MEAN	0.30	0.44	1.94	1.77	2.40	3.68	3.36	1.37	0.73	0.56	0.45	0.58	
MAX	0.44	0.79	3.80	2.98	5.18	8.65	6.66	2.31	0.87	0.61	0.51	2.36	8.65
MIN	0.22	0.26	0.52	0.97	1.25	1.73	1.42	0.88	0.62	0.52	0.36	0.35	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.91 M (A.D), AT 21.00 HOURS, ON SEP 12, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D); RIVER BED -1.00 M (A.D)
LEFT BANK ELEVATION 10.38 M (A.D)
RIGHT BANK ELEVATION 9.57 M (A.D), DRAINAGE AREA 2279 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.68	1.76	5.68	50.00	30.74	78.88	79.72	29.20	8.78	5.32	4.12	2.60	
2	1.68	2.00	4.24	52.50	37.68	44.88	118.74	27.44	8.50	5.20	4.12	2.50	
3	1.68	1.84	5.44	34.56	58.62	33.84	120.44	24.06	8.36	5.20	4.12	3.00	
4	1.84	1.76	6.28	23.08	50.00	38.40	69.36	20.53	8.08	5.08	4.12	3.10	
5	1.76	1.92	6.68	16.66	53.75	58.10	61.48	18.96	7.94	5.08	4.00	3.00	
6	1.68	1.84	7.10	15.24	36.72	48.50	75.52	19.16	7.80	5.08	4.00	4.36	
7	1.68	1.84	7.80	17.59	27.22	33.84	85.70	23.08	7.66	4.96	4.00	7.80	
8	1.60	1.68	9.62	20.14	28.32	26.61	96.24	36.24	7.52	4.96	4.00	6.54	
9	1.52	1.92	12.52	21.71	23.67	25.24	72.16	28.54	7.38	4.96	3.90	4.48	
10	1.52	4.84	18.18	18.96	18.77	29.64	63.57	24.84	7.24	4.84	3.80	3.70	
11	1.44	4.24	34.08	16.12	14.60	122.48	53.50	24.06	7.10	4.84	3.70	5.32	
12	1.44	3.40	39.60	18.96	17.20	263.30	38.16	19.16	6.96	4.84	3.60	37.44	
13	1.36	6.04	27.00	16.12	16.48	255.60	31.18	16.66	6.96	4.72	3.50	11.88	
14	1.44	5.08	19.94	13.16	19.94	117.04	26.02	14.92	6.82	4.72	3.40	8.50	
15	1.60	3.80	16.12	15.08	26.22	37.92	22.10	13.96	6.68	4.72	3.40	6.54	
16	1.84	4.12	20.92	12.36	32.50	30.30	21.32	12.84	6.68	4.60	3.30	5.56	
17	2.30	3.20	29.20	11.56	43.44	27.22	22.10	12.20	6.54	4.60	3.30	4.96	
18	2.90	2.50	18.57	14.76	41.76	23.67	21.12	11.72	6.40	4.60	3.20	4.36	
19	3.00	2.40	20.53	12.36	31.18	45.12	18.38	11.72	6.40	4.60	3.20	4.00	
20	3.30	2.30	38.88	10.18	38.86	128.00	17.59	15.40	6.28	4.48	3.20	3.80	
21	3.40	2.50	73.56	13.16	30.52	115.34	20.34	16.30	6.28	4.48	3.10	3.70	
22	3.30	3.70	74.40	12.52	20.92	57.32	85.10	13.48	6.16	4.48	3.00	3.50	
23	3.10	3.30	67.40	14.92	15.94	73.84	124.18	11.88	6.04	4.48	3.00	3.30	
24	2.70	2.80	73.56	29.86	16.84	168.15	96.88	11.24	6.04	4.36	2.90	3.20	
25	2.30	2.40	55.76	43.68	32.94	161.52	78.32	10.46	5.92	4.36	2.80	3.00	
26	2.00	3.60	41.76	44.88	74.40	77.76	127.30	10.18	5.92	4.36	2.80	3.00	
27	1.84	5.20	43.20	51.50	114.01	52.00	172.44	9.90	5.80	4.36	2.70	3.10	
28	1.76	5.44	63.04	49.25	117.72	42.00	118.06	9.62	5.68	4.24	2.60	3.30	
29	1.60	5.68	42.72	46.32	66.00	48.75	51.50	9.20	5.68	4.24		3.00	
30	1.60	6.40	36.24	45.36	42.72	84.80	38.40	8.92	5.56	4.24		2.90	
31		7.66		35.28	70.48		32.06		5.44	4.24		2.90	
TOTAL	60.86	107.16	920.02	797.83	1250.18	2350.06	2058.98	515.87	210.60	145.24	96.88	168.34	8682.00 CMSDAY
MEAN	2.03	3.46	30.67	25.74	40.33	78.34	66.42	17.20	6.79	4.69	3.46	5.43	23.79 CMS
MAX	3.40	7.66	74.40	52.50	117.72	263.30	172.44	36.24	8.78	5.32	4.12	37.44	263.30 CMS
MIN	1.36	1.68	4.24	10.18	14.60	23.67	17.59	8.92	5.44	4.24	2.60	2.50	1.36 CMS
RUNOFF	5.258	9.259	79.490	68.932	108.015	203.045	177.896	44.571	18.196	12.549	8.370	14.545	750.125 MCM

MOMENTARY PEAK 277.34 CMS, AT 8.91 M (A.D), AT 21.00 HOURS, ON SEP 12, 1980
RUNOFF YIELD 10.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 121.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

KHLONG PHRA SATHUNG AT BAN WANG KHIAN, PRACHIN BURI (KGT.10)

LOCATION — LAT. 13°-48'-29" N., LONG. 102°-03'-35" E., ON LEFT BANK NEAR SAHA CHAROEN SAWMILL, BAN WANG KHIAN, AMPHOE SA KAEO, PRACHIN BURI.

DRAINAGE AREA — 2,523 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +23.741 M. (M.S.L.)

BENCH MARK — B.M.-M.D.

LOCATION — UNDER THE COCONUT TREE NEAR THE STATION OFFICE.

ELEVATION — +34.652 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

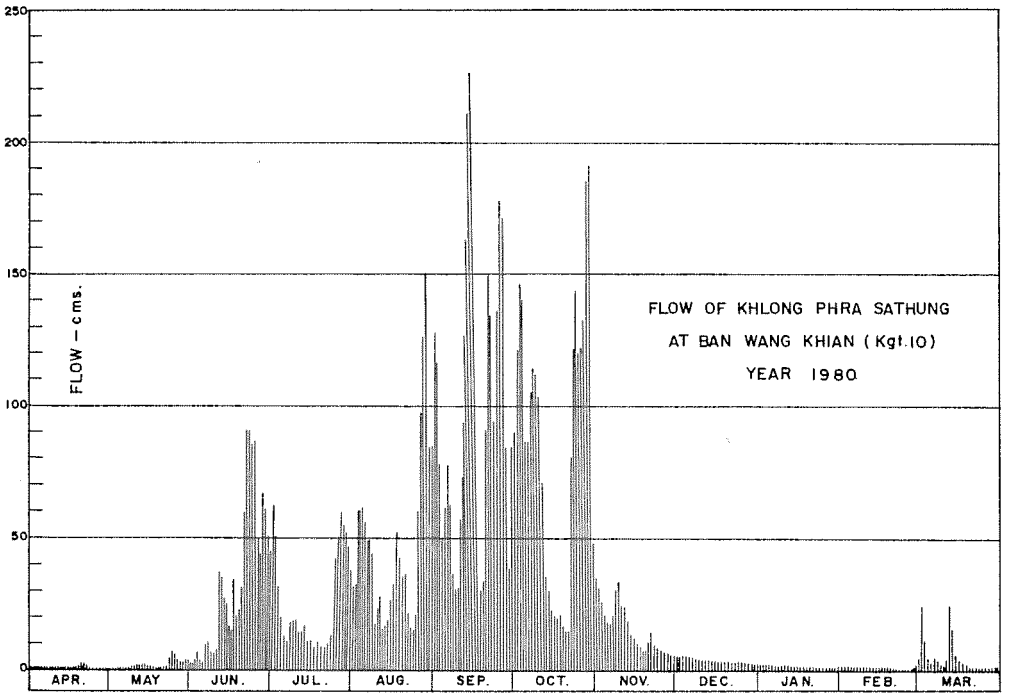
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +34.50 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.80	24.76	25.15	28.33	27.62	31.67	30.46	27.73	25.59	25.17	24.99	25.38	
2	24.80	24.76	25.25	29.21	27.66	30.71	31.34	27.53	25.57	25.16	24.99	27.11	
3	24.79	24.79	25.72	28.42	29.16	29.84	32.28	27.34	25.56	25.15	24.98	25.93	
4	24.79	24.79	25.38	27.33	29.11	28.57	32.02	26.94	25.55	25.14	24.96	25.44	
5	24.82	24.78	25.18	26.68	29.20	29.53	30.21	26.74	25.53	25.13	24.95	25.30	
6	24.82	24.79	25.85	26.30	28.56	29.87	30.24	26.64	25.51	25.13	24.95	25.24	
7	24.82	24.79	26.10	26.09	27.48	28.80	30.73	26.73	25.50	25.12	24.95	25.54	
8	24.82	24.79	25.86	26.51	27.28	27.96	31.25	27.40	25.48	25.11	24.96	25.34	
9	24.81	24.77	25.67	26.73	26.94	27.54	31.13	27.74	25.46	25.09	24.99	25.16	
10	24.80	24.97	25.60	26.77	26.58	27.59	30.14	27.12	25.41	25.08	24.97	25.10	
11	24.80	25.08	26.14	26.44	27.30	29.67	29.65	27.13	25.41	25.07	24.95	25.07	
12	24.80	25.01	27.92	26.43	26.35	32.80	28.67	26.86	25.39	25.05	24.92	26.55	
13	24.83	25.10	27.78	26.57	26.61	34.14	27.85	26.57	25.38	25.04	24.90	27.10	
14	24.83	25.18	27.09	26.21	26.61	34.74	27.47	26.36	25.37	25.03	24.89	25.73	
15	24.82	25.07	26.59	26.15	27.17	33.33	27.09	26.24	25.37	25.03	24.88	25.54	
16	24.82	24.96	26.38	26.19	27.58	29.63	26.91	26.14	25.38	25.04	24.87	25.34	
17	24.81	24.99	27.77	25.88	28.14	28.03	26.84	26.05	25.37	25.03	24.87	25.26	
18	24.81	24.90	26.96	26.03	28.75	27.51	26.92	25.97	25.35	25.03	24.87	25.18	
19	24.88	24.84	26.57	26.18	27.89	27.73	26.68	25.74	25.32	25.03	24.86	25.08	
20	25.19	24.82	27.46	25.84	27.88	30.63	26.53	26.06	25.33	25.03	24.87	25.01	
21	25.07	24.83	29.26	25.85	27.93	32.40	26.44	26.43	25.30	25.02	24.87	24.95	
22	24.98	24.89	30.38	26.05	27.22	31.69	28.85	26.21	25.29	25.01	24.87	24.96	
23	24.94	25.01	30.39	26.02	26.58	30.52	31.32	26.01	25.27	25.00	24.86	24.93	
24	24.90	25.58	30.13	26.48	26.47	32.02	32.19	25.90	25.27	25.00	24.85	24.94	
25	24.87	25.74	30.24	28.19	26.89	33.31	31.40	25.83	25.26	25.00	24.85	24.94	
26	24.85	25.54	28.89	28.44	29.47	33.14	31.57	25.79	25.24	25.00	24.83	24.93	
27	24.83	25.43	28.26	28.67	31.38	30.51	32.75	25.75	25.22	25.00	24.86	24.93	
28	24.82	25.29	29.42	29.08	32.44	28.92	33.48	25.71	25.20	25.00	24.99	24.95	
29	24.81	25.31	29.08	28.76	32.24	28.02	32.11	25.67	25.19	25.00		24.96	
30	24.79	25.54	28.15	28.66	30.09	30.14	29.19	25.62	25.17	25.00		24.94	
31		25.28		28.23	30.09		28.08		25.16	24.99		24.92	
MEAN	24.85	25.04	27.35	27.06	28.22	30.34	29.74	26.46	25.37	25.05	24.91	25.35	
MAX	25.19	25.74	30.39	29.21	32.44	34.74	33.48	27.74	25.59	25.17	24.99	27.11	34.74
MIN	24.79	24.76	25.15	25.84	26.35	27.51	26.44	25.62	25.16	24.99	24.83	24.92	24.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 34.81 M (MSL), AT 14.00 HOURS, ON SEP 14, 1980
ZERO GAGE AT BOTTOM ELEVATION 23.74 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 34.50 M (MSL)
RIGHT BANK ELEVATION 34.50 M (MSL), DRAINAGE AREA 2523 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.36	2.70	44.27	31.72	127.10	92.82	33.51	5.91	2.82	1.74	4.16	
2	0.60	0.36	3.30	62.22	32.36	99.57	117.20	30.28	5.73	2.76	1.74	24.04	
3	0.54	0.54	7.20	46.00	61.16	58.64	145.40	27.30	5.64	2.70	1.68	9.30	
4	0.54	0.54	4.16	27.15	60.11	49.00	137.60	21.66	5.55	2.64	1.56	4.62	
5	0.72	0.48	2.88	18.04	62.00	69.52	86.26	18.86	5.37	2.58	1.50	3.60	
6	0.72	0.54	8.50	13.20	48.80	77.75	87.04	17.52	5.19	2.58	1.50	3.24	
7	0.72	0.54	11.00	10.90	29.48	53.60	100.12	18.72	5.10	2.52	1.50	5.46	
8	0.72	0.54	8.60	15.83	26.42	37.48	114.58	28.20	4.94	2.46	1.56	3.88	
9	0.66	0.42	6.70	18.72	21.66	30.44	111.18	33.68	4.78	2.34	1.74	2.76	
10	0.60	1.62	6.00	19.28	16.74	31.24	84.50	24.18	4.38	2.28	1.62	2.40	
11	0.60	2.28	11.40	14.92	26.70	72.88	72.40	24.32	4.38	2.22	1.50	2.22	
12	0.60	1.86	36.76	14.79	13.80	161.20	51.00	20.54	4.23	2.10	1.32	16.35	
13	0.78	2.40	34.36	16.61	17.13	205.06	35.55	16.61	4.16	2.04	1.20	23.90	
14	0.78	2.88	23.76	12.12	17.13	226.04	29.32	13.92	4.09	1.98	1.14	7.30	
15	0.72	2.22	16.87	11.50	24.88	178.16	23.76	12.48	4.09	1.98	1.08	5.46	
16	0.72	1.56	14.16	11.90	31.08	71.92	21.24	11.40	4.16	2.04	1.02	3.88	
17	0.66	1.74	34.19	8.80	40.72	38.74	20.26	10.50	4.09	1.98	1.02	3.36	
18	0.66	1.20	21.94	10.30	52.60	29.96	21.38	9.70	3.95	1.98	1.02	2.88	
19	1.08	0.84	16.61	11.80	36.23	33.51	18.04	7.40	3.74	1.98	0.96	2.28	
20	2.94	0.72	29.16	8.40	36.06	97.41	16.09	10.60	3.81	1.98	1.02	1.86	
21	2.22	0.78	63.32	8.50	36.94	149.00	14.92	14.79	3.60	1.92	1.02	1.50	
22	1.68	1.14	90.68	10.50	25.58	127.70	54.65	12.12	3.54	1.86	1.02	1.56	
23	1.44	1.86	90.94	10.20	16.74	94.44	116.60	10.10	3.42	1.80	0.96	1.38	
24	1.20	5.82	84.25	15.44	15.31	137.60	142.70	9.00	3.42	1.80	0.90	1.44	
25	1.02	7.40	87.04	41.62	20.96	177.52	119.00	8.30	3.36	1.80	0.90	1.44	
26	0.90	5.46	55.49	46.40	68.11	172.08	124.10	7.90	3.24	1.80	0.78	1.38	
27	0.78	4.54	42.94	51.00	118.40	94.17	159.65	7.50	3.12	1.80	0.96	1.38	
28	0.72	3.54	66.96	59.48	150.20	56.12	183.04	7.10	3.00	1.80	1.74	1.50	
29	0.66	3.67	59.48	52.80	144.20	38.56	140.30	6.70	2.94	1.80		1.56	
30	0.54	5.46	40.90	50.80	83.25	84.50	61.79	6.20	2.82	1.80		1.44	
31		3.48		42.37	83.25		39.64		2.76	1.74		1.32	
TOTAL	27.12	66.79	982.25	785.86	1449.72	2880.91	2542.13	481.09	128.51	65.88	35.70	148.85	9594.80 CMSDAY
MEAN	0.90	2.15	32.74	25.35	46.77	96.03	82.00	16.04	4.15	2.13	1.27	4.80	26.29 CMS
MAX	2.94	7.40	90.94	62.22	150.20	226.04	183.04	33.68	5.91	2.82	1.74	24.04	226.04 CMS
MIN	0.54	0.36	2.70	8.40	13.80	29.96	14.92	6.20	2.76	1.74	0.78	1.32	0.36 CMS
RUNOFF	2.343	5.771	84.866	67.898	125.256	248.910	219.640	41.566	11.103	5.692	3.084	12.861	828.990 MCM

MOMENTARY PEAK 228.56 CMS, AT 34.81 M (MSL), AT 14.00 HOURS, ON SEP 14, 1980

RUNOFF YIELD 10.42 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 90.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

KHLONG PHRA PRONG AT BAN KAENG, PRACHIN BURI (KGT.12)

LOCATION — LAT. 13°-56'-02" N., LONG. 101°-58'-41" E., ON LEFT BANK NEAR RAILWAY STATION AT BAN KAENG AND ABOUT 200 METERS UPSTREAM FROM THOT SAPHON SAWMILL, AMPHOE SA KAEO, PRACHIN BURI.

DRAINAGE AREA — 1,540 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +9.687 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

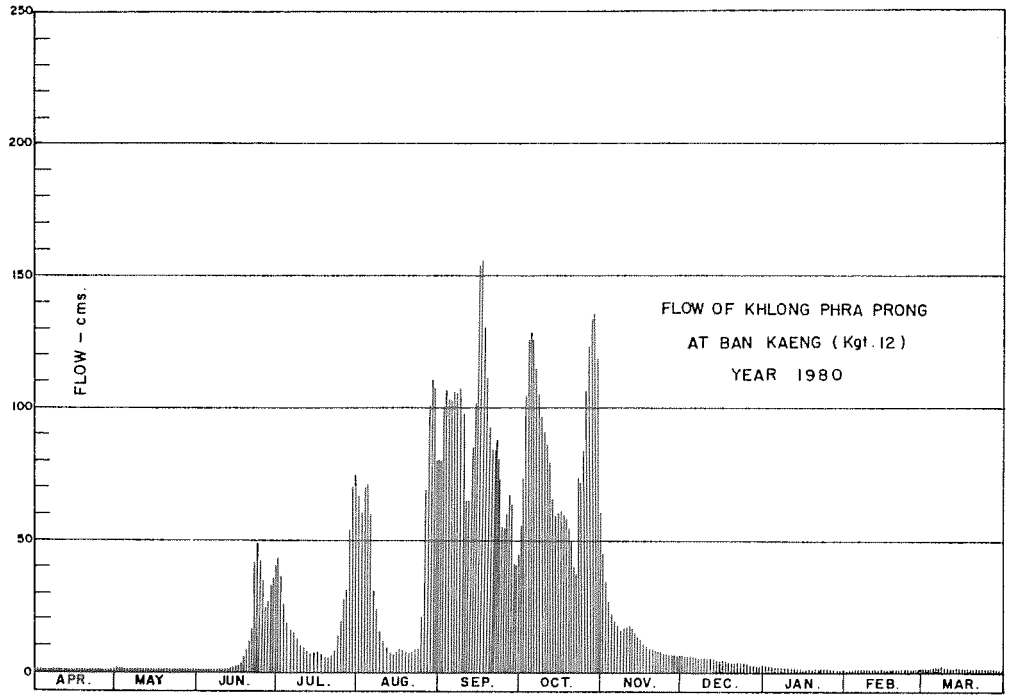
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.26	0.21	3.60	4.51	4.95	4.05	3.72	1.31	0.78	0.55	0.58	
2	0.23	0.47	0.22	3.49	4.30	5.50	5.17	3.26	1.28	0.77	0.55	0.59	
3	0.22	0.39	0.22	3.07	4.46	5.74	5.80	2.98	1.28	0.76	0.53	0.60	
4	0.21	0.33	0.27	2.49	4.67	5.62	6.23	2.68	1.25	0.75	0.53	0.61	
5	0.20	0.30	0.29	2.19	4.52	5.64	6.33	2.51	1.25	0.74	0.53	0.59	
6	0.20	0.28	0.27	2.12	3.80	5.72	6.08	2.35	1.23	0.73	0.53	0.57	
7	0.21	0.25	0.24	2.13	2.93	5.70	5.78	2.26	1.23	0.71	0.53	0.56	
8	0.23	0.23	0.22	2.06	2.45	5.76	5.55	2.16	1.22	0.70	0.52	0.75	
9	0.22	0.22	0.23	1.81	2.13	5.53	5.42	2.19	1.20	0.69	0.52	0.68	
10	0.22	0.22	0.29	1.67	1.89	5.01	5.31	2.27	1.17	0.68	0.53	0.63	
11	0.22	0.21	0.31	1.60	1.65	4.45	5.12	2.28	1.16	0.67	0.52	0.61	
12	0.22	0.21	0.33	1.51	1.54	4.46	4.80	2.28	1.14	0.67	0.53	0.60	
13	0.22	0.21	0.31	1.40	1.45	5.26	4.42	2.18	1.12	0.66	0.53	0.61	
14	0.22	0.21	0.61	1.38	1.36	6.03	4.25	2.04	1.10	0.65	0.53	0.59	
15	0.21	0.21	0.66	1.37	1.39	6.76	4.28	1.91	1.10	0.65	0.51	0.56	
16	0.19	0.21	0.71	1.45	1.58	7.00	4.34	1.82	1.10	0.63	0.51	0.54	
17	0.19	0.22	0.83	1.43	1.60	6.43	4.31	1.73	1.06	0.63	0.50	0.54	
18	0.19	0.26	1.09	1.36	1.49	5.80	4.27	1.64	1.00	0.61	0.49	0.50	
19	0.19	0.28	1.48	1.25	1.38	5.41	4.12	1.60	0.97	0.61	0.49	0.47	
20	0.19	0.28	1.77	1.20	1.38	5.10	3.91	1.58	0.95	0.61	0.48	0.46	
21	0.19	0.29	2.24	1.25	1.44	5.07	3.57	1.54	0.92	0.61	0.47	0.45	
22	0.19	0.29	3.26	1.30	1.51	5.19	3.33	1.53	0.91	0.60	0.48	0.45	
23	0.19	0.27	3.84	1.54	1.50	4.81	4.71	1.49	0.91	0.59	0.46	0.46	
24	0.19	0.24	3.84	1.97	1.67	4.08	4.67	1.44	0.89	0.59	0.45	0.47	
25	0.19	0.21	3.56	2.23	2.52	4.03	5.48	1.42	0.88	0.57	0.45	0.48	
26	0.19	0.21	2.97	2.81	3.57	4.29	5.91	1.39	0.86	0.57	0.45	0.47	
27	0.19	0.22	2.65	3.39	4.84	4.52	6.18	1.37	0.85	0.56	0.45	0.44	
28	0.19	0.23	2.99	4.00	5.58	3.97	6.41	1.35	0.81	0.55	0.49	0.44	
29	0.18	0.22	3.18	4.59	5.85	3.46	6.52	1.35	0.80	0.55		0.43	
30	0.18	0.20	3.45	4.75	5.70	3.56	6.05	1.34	0.80	0.54		0.42	
31		0.21		4.70	4.94		4.83		0.79	0.54		0.40	
MEAN	0.20	0.25	1.42	2.29	2.89	5.16	5.07	1.99	1.05	0.64	0.50	0.53	
MAX	0.23	0.47	3.84	4.75	5.85	7.00	6.52	3.72	1.31	0.78	0.55	0.75	7.00
MIN	0.18	0.20	0.21	1.20	1.36	3.46	3.33	1.34	0.79	0.54	0.45	0.40	0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.06 M (A.D.), AT 11.00 HOURS, ON SEP 16, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.35 M (A.D.)

LEFT BANK ELEVATION 9.39 M (A.D.)

RIGHT BANK ELEVATION 9.12 M (A.D.), DRAINAGE AREA 1540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	0.38	0.23	42.50	66.39	79.80	53.70	45.38	6.39	2.60	1.50	1.62	
2	0.29	1.18	0.26	39.98	60.30	97.90	86.84	35.20	6.14	2.55	1.50	1.66	
3	0.26	0.86	0.26	31.40	64.94	106.20	108.30	29.62	6.14	2.50	1.42	1.70	
4	0.23	0.62	0.41	20.94	71.10	102.00	124.54	24.06	5.90	2.45	1.42	1.75	
5	0.20	0.50	0.47	16.46	66.68	102.70	128.34	21.26	5.90	2.40	1.42	1.66	
6	0.20	0.44	0.41	15.48	47.30	105.50	118.84	18.75	5.74	2.35	1.42	1.58	
7	0.23	0.35	0.32	15.62	28.67	104.80	107.60	17.44	5.74	2.25	1.42	1.54	
8	0.29	0.29	0.26	14.69	20.30	106.90	99.60	16.04	5.66	2.20	1.38	2.45	
9	0.26	0.26	0.29	11.53	15.62	98.92	95.18	16.46	5.50	2.15	1.38	2.10	
10	0.26	0.26	0.47	9.97	12.54	81.72	91.44	17.58	5.26	2.10	1.42	1.85	
11	0.26	0.23	0.54	9.20	9.75	64.65	85.24	17.72	5.18	2.05	1.38	1.75	
12	0.26	0.23	0.62	8.21	8.54	64.94	75.00	17.72	5.02	2.05	1.42	1.70	
13	0.26	0.23	0.54	7.20	7.65	89.78	63.78	16.32	4.86	2.00	1.42	1.75	
14	0.26	0.23	1.75	7.02	6.84	116.94	58.95	14.44	4.70	1.95	1.42	1.66	
15	0.23	0.23	2.00	6.93	7.11	145.00	59.76	12.79	4.70	1.95	1.34	1.54	
16	0.18	0.23	2.25	7.65	8.98	154.70	61.46	11.65	4.70	1.85	1.34	1.46	
17	0.18	0.26	2.88	7.47	9.20	132.14	60.59	10.63	4.42	1.85	1.30	1.46	
18	0.18	0.38	4.63	6.84	8.01	108.30	59.49	9.64	4.00	1.75	1.26	1.30	
19	0.18	0.44	7.92	5.90	7.02	94.84	55.52	9.20	3.79	1.75	1.26	1.18	
20	0.18	0.44	11.07	5.50	7.02	84.60	50.06	8.98	3.65	1.75	1.22	1.14	
21	0.18	0.47	17.16	5.90	7.56	83.64	41.81	8.54	3.44	1.75	1.18	1.10	
22	0.18	0.47	35.20	6.30	8.21	87.48	36.60	8.43	3.37	1.70	1.22	1.10	
23	0.18	0.41	48.30	8.54	8.10	75.32	72.30	8.01	3.37	1.66	1.14	1.14	
24	0.18	0.32	48.30	13.55	9.97	54.48	71.10	7.56	3.24	1.66	1.10	1.18	
25	0.18	0.23	41.58	17.02	21.42	53.18	97.22	7.38	3.18	1.58	1.10	1.22	
26	0.18	0.23	29.43	26.39	41.81	60.03	112.38	7.11	3.06	1.58	1.10	1.18	
27	0.18	0.26	23.55	37.80	76.28	66.68	122.64	6.93	3.00	1.54	1.10	1.06	
28	0.18	0.29	29.81	52.40	100.62	51.62	131.38	6.75	2.76	1.50	1.26	1.06	
29	0.16	0.26	33.60	68.71	110.15	39.32	135.58	6.75	2.70	1.50		1.02	
30	0.16	0.20	39.10	73.50	104.80	41.58	117.70	6.66	2.70	1.46		0.98	
31		0.23		72.00	79.48		75.96		2.65	1.46		0.90	
TOTAL	6.44	11.41	383.61	672.60	1102.36	2655.66	2658.90	445.00	136.86	59.89	36.84	44.79	8214.35 CMSDAY
MEAN	0.21	0.37	12.79	21.70	35.56	88.52	85.77	14.83	4.41	1.93	1.32	1.44	22.51 CMS
MAX	0.29	1.18	48.30	73.50	110.15	154.70	135.58	45.38	6.39	2.60	1.50	2.45	154.70 CMS
MIN	0.16	0.20	0.23	5.50	6.84	39.32	36.60	6.66	2.65	1.46	1.10	0.90	0.16 CMS
RUNOFF	0.556	0.986	33.144	58.113	95.244	229.449	229.729	38.448	11.825	5.174	3.183	3.870	709.719 MCM

MOMENTARY PEAK 157.16 CMS, AT 7.06 M (A.D), AT 11.00 HOURS, ON SEP 16, 1980

RUNOFF YIELD 14.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 102.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

KHLONG PHRA PRONG AT BAN NANG LENG, PRACHIN BURI (KGT.13)

LOCATION — LAT. 13°-58'-04" N., LONG. 101°-44'-20" E., ON LEFT BANK ABOUT 40 METERS UPSTREAM FROM THE HIGHWAY BRIDGE AT BAN NANG LENG, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA — 5,347 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.165 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK NEAR THE GAGE SITE.

ELEVATION — +10.712 M. (M.S.L.)

GAGE READING FREQUENCY — 3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1968, 1971-1976

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1968, 1971-1976

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

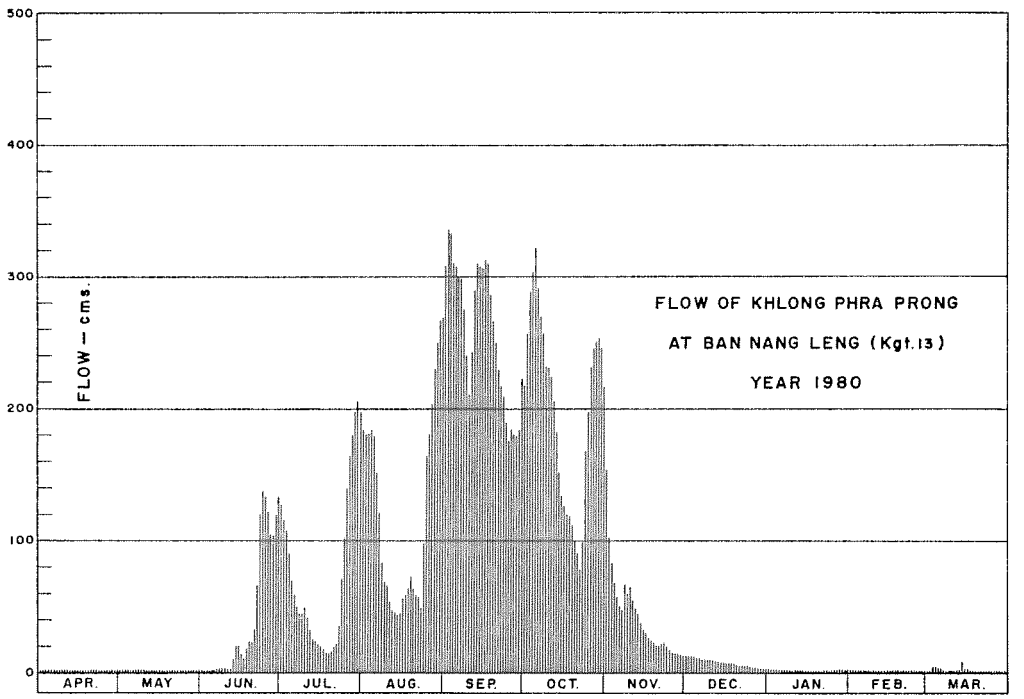
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE DURING 1971-1976.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.19	1.14	1.60	6.13	7.39	9.21	7.98	6.50	2.56	1.76	1.42	1.29	
2	1.20	1.12	1.56	5.86	7.28	9.55	8.57	5.61	2.52	1.74	1.41	1.34	
3	1.20	1.11	1.48	5.72	7.30	9.53	8.92	5.04	2.51	1.73	1.41	1.93	
4	1.18	1.15	1.49	5.27	7.37	9.30	9.20	4.66	2.50	1.72	1.40	1.96	
5	1.17	1.18	1.66	4.67	7.26	9.27	9.43	4.34	2.45	1.70	1.40	1.90	
6	1.16	1.17	1.60	4.40	6.81	9.18	9.24	4.13	2.41	1.70	1.40	1.71	
7	1.14	1.16	1.52	4.11	6.06	9.17	8.84	4.03	2.38	1.67	1.40	1.61	
8	1.13	1.14	1.74	3.90	5.27	8.87	8.53	4.66	2.39	1.64	1.39	1.56	
9	1.16	1.13	1.89	3.89	4.74	8.37	8.22	4.47	2.36	1.62	1.38	1.76	
10	1.16	1.13	1.83	4.07	4.32	7.85	8.22	4.60	2.34	1.61	1.37	1.70	
11	1.16	1.14	1.73	3.81	3.89	8.39	8.09	4.33	2.34	1.59	1.37	1.57	
12	1.16	1.15	1.73	3.46	3.69	9.05	7.76	4.06	2.26	1.58	1.37	1.51	
13	1.17	1.28	2.31	3.18	3.63	9.30	7.25	3.91	2.22	1.57	1.37	1.54	
14	1.14	1.35	2.93	3.12	3.56	9.28	6.69	3.67	2.21	1.56	1.36	1.82	
15	1.12	1.32	2.96	3.00	3.61	9.26	6.31	3.51	2.18	1.54	1.35	2.29	
16	1.10	1.42	2.53	2.87	3.97	9.33	6.11	3.38	2.17	1.53	1.34	1.86	
17	1.13	1.53	2.32	2.85	4.06	9.28	6.00	3.26	2.17	1.52	1.32	1.73	
18	1.13	1.35	2.73	2.72	4.57	8.99	5.96	3.14	2.16	1.51	1.32	1.64	
19	1.12	1.29	3.09	2.63	4.64	8.77	5.79	3.04	2.12	1.50	1.31	1.54	
20	1.13	1.31	3.10	2.75	4.49	8.55	5.48	2.98	2.08	1.49	1.31	1.51	
21	1.15	1.28	3.51	2.90	4.41	8.15	5.22	2.95	2.02	1.50	1.31	1.46	
22	1.26	1.24	4.71	3.07	4.36	7.95	4.97	3.02	2.03	1.49	1.30	1.36	
23	1.41	1.22	5.92	3.66	4.08	7.82	5.44	3.06	2.02	1.47	1.30	1.41	
24	1.35	1.25	6.39	4.74	4.82	7.49	7.00	2.90	2.00	1.47	1.30	1.40	
25	1.29	1.26	6.30	5.65	6.86	7.17	7.62	2.78	1.94	1.46	1.29	1.38	
26	1.26	1.50	6.02	6.45	7.30	7.39	8.20	2.71	1.92	1.45	1.29	1.37	
27	1.23	1.74	5.58	7.05	7.66	7.29	8.45	2.66	1.90	1.45	1.29	1.43	
28	1.19	1.68	5.58	7.29	8.05	7.27	8.49	2.61	1.87	1.45	1.29	1.37	
29	1.17	1.61	6.00	7.62	8.49	7.37	8.54	2.61	1.86	1.44		1.35	
30	1.16	1.56	6.28	7.77	8.72	7.89	8.45	2.57	1.83	1.44		1.33	
31		1.53		7.64	8.73		7.94		1.79	1.42		1.34	
MEAN	1.18	1.30	3.27	4.59	5.72	8.54	7.51	3.71	2.18	1.56	1.35	1.58	
MAX	1.41	1.74	6.39	7.77	8.73	9.55	9.43	6.50	2.56	1.76	1.42	2.29	9.55
MIN	1.10	1.11	1.48	2.63	3.56	7.17	4.97	2.57	1.79	1.42	1.29	1.29	1.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.55 M (MSL), AT HOURS, ON SEP 2, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.16 M (MSL), RIVER BED 0.00 M (MSL)
LEFT BANK ELEVATION 10.71 M (MSL)
RIGHT BANK ELEVATION 11.36 M (MSL), DRAINAGE AREA 5347 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.12	2.00	126.35	185.50	301.90	217.80	143.00	13.40	2.96	1.10	0.57	
2	0.30	0.06	1.80	114.40	180.00	336.00	254.90	104.40	12.80	2.84	1.05	0.76	
3	0.30	0.03	1.40	108.80	181.00	333.60	279.40	81.60	12.65	2.78	1.05	4.50	
4	0.24	0.15	1.45	90.80	184.50	310.00	301.00	67.60	12.50	2.72	1.00	4.80	
5	0.21	0.24	2.36	67.95	179.00	307.30	322.30	57.20	11.75	2.60	1.00	4.20	
6	0.18	0.21	2.00	59.00	156.95	299.40	304.60	50.90	11.15	2.60	1.00	2.66	
7	0.12	0.18	1.60	50.30	123.20	298.60	273.80	47.90	10.70	2.42	1.00	2.06	
8	0.09	0.12	2.84	44.00	90.80	275.90	252.10	67.60	10.85	2.24	0.96	1.80	
9	0.18	0.09	4.10	43.70	70.40	241.20	232.20	61.10	10.40	2.12	0.92	2.96	
10	0.18	0.09	3.50	49.10	56.60	210.25	232.20	65.50	10.10	2.06	0.88	2.60	
11	0.18	0.12	2.78	41.30	43.70	242.40	224.40	56.90	10.10	1.95	0.88	1.85	
12	0.18	0.15	2.78	32.00	37.75	289.00	205.30	48.80	8.90	1.90	0.88	1.55	
13	0.21	0.54	9.65	25.60	36.25	310.00	178.50	44.30	8.30	1.85	0.88	1.70	
14	0.12	0.80	20.60	24.40	34.50	308.20	151.55	37.25	8.15	1.80	0.84	3.40	
15	0.06	0.68	21.20	22.00	35.75	306.40	134.45	33.25	7.70	1.70	0.80	9.35	
16	0.00	1.10	12.95	19.40	46.10	312.70	125.45	30.00	7.55	1.65	0.76	3.80	
17	0.09	1.65	9.80	19.00	48.80	308.20	120.50	27.20	7.55	1.60	0.68	2.78	
18	0.09	0.80	16.60	16.40	64.45	284.30	118.70	24.80	7.40	1.55	0.68	2.24	
19	0.06	0.57	23.80	14.60	66.90	268.90	111.60	22.80	6.80	1.50	0.64	1.70	
20	0.09	0.64	24.00	17.00	61.70	253.50	99.20	21.60	6.24	1.45	0.64	1.55	
21	0.15	0.54	33.25	20.00	59.30	228.00	88.80	21.00	5.46	1.50	0.64	1.30	
22	0.48	0.42	69.35	23.40	57.80	216.00	78.80	22.40	5.59	1.45	0.60	0.84	
23	1.05	0.36	116.90	37.00	49.40	208.60	97.60	23.20	5.46	1.35	0.60	1.05	
24	0.80	0.45	138.05	70.40	73.20	190.50	166.00	20.00	5.20	1.35	0.60	1.00	
25	0.57	0.48	134.00	106.00	159.20	174.50	197.60	17.60	4.60	1.30	0.57	0.92	
26	0.48	1.50	121.40	140.75	181.00	185.50	231.00	16.20	4.40	1.25	0.57	0.88	
27	0.39	2.84	103.20	168.50	199.80	180.50	246.50	15.20	4.20	1.25	0.57	1.15	
28	0.27	2.48	103.20	180.50	222.00	179.50	249.30	14.20	3.90	1.25	0.57	0.88	
29	0.21	2.06	120.50	197.60	249.30	184.50	252.80	14.20	3.80	1.20		0.80	
30	0.18	1.80	133.10	205.85	265.40	212.45	246.50	13.55	3.50	1.20		0.72	
31		1.65		198.70	266.10		215.40		3.14	1.10		0.76	
TOTAL	7.73	22.92	1240.16	2334.80	3666.35	7757.80	6210.25	1271.25	244.24	56.49	22.36	67.13	22901.46 CMSDAY
MEAN	0.26	0.74	41.34	75.32	118.27	258.59	200.33	42.37	7.88	1.82	0.80	2.17	62.74 CMS
MAX	1.05	2.84	138.05	205.85	266.10	336.00	322.30	143.00	13.40	2.96	1.10	9.35	336.00 CMS
MIN	0.00	0.03	1.40	14.60	34.50	174.50	78.80	13.55	3.14	1.10	0.57	0.57	0.00 CMS
RUNOFF	0.668	1.980	107.150	201.727	316.772	670.273	536.565	109.836	21.102	4.881	1.932	5.800	1978.685 MCM

MOMENTARY PEAK 336.00 CMS, AT 9.55 M (MSL), AT HOURS, ON SEP 2, 1980

RUNOFF YIELD 11.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 62.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

HUAI YANG AT BAN THUNG FAEK, PRACHIN BURI (KGT.14)

LOCATION — LAT. 14°-09'-30" N., LONG. 101°-52'-52" E., ON LEFT BANK ABOUT 2 KILOMETERS LEFT OF KABIN BURI-NAKHON RATCHASIMA HIGHWAY, BAN THUNG FAEK, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA — 366 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +34.611 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +42.429 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

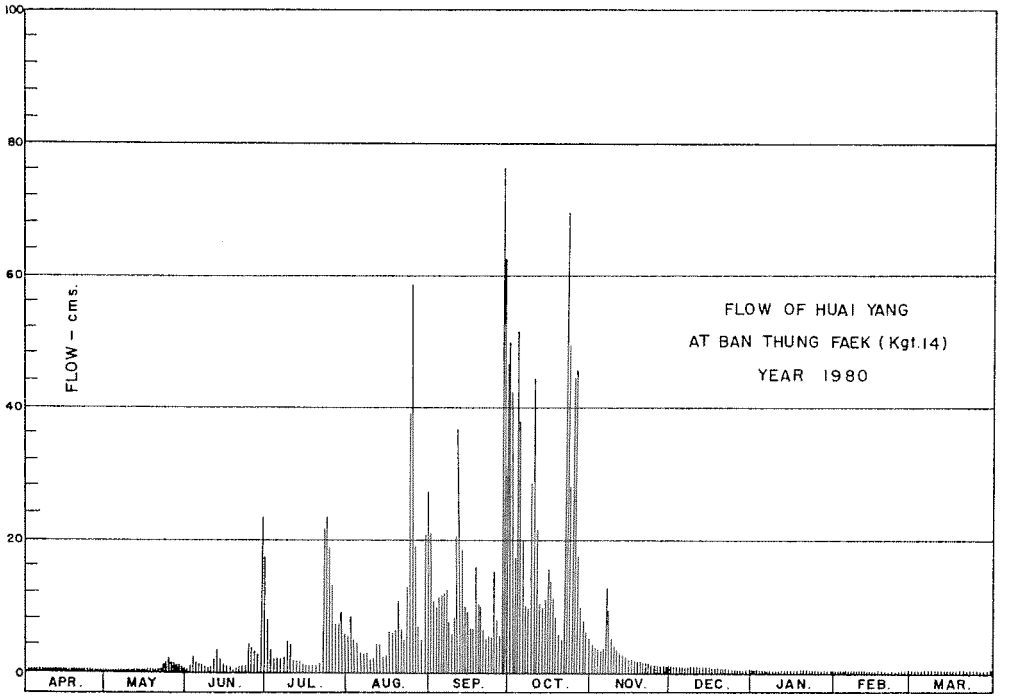
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	34.73	34.65	34.86	35.82	35.48	36.13	36.97	35.45	35.05	34.93	34.85	34.86	
2	34.73	34.65	35.08	35.47	35.65	35.81	36.62	35.41	35.05	34.92	34.85	34.90	
3	34.73	34.64	35.26	35.31	35.45	35.72	36.04	35.38	35.04	34.92	34.85	34.89	
4	34.73	34.64	35.13	35.21	35.46	35.80	37.01	35.36	35.04	34.91	34.85	34.88	
5	34.72	34.64	35.09	35.23	35.38	35.81	36.43	35.35	35.03	34.91	34.85	34.86	
6	34.75	34.64	35.12	35.17	35.28	35.83	36.00	35.38	35.03	34.90	34.85	34.85	
7	34.79	34.64	35.08	35.23	35.31	35.86	35.77	35.88	35.02	34.90	34.85	34.87	
8	34.80	34.64	35.00	35.20	35.32	35.62	35.68	35.53	35.02	34.89	34.85	34.88	
9	34.80	34.63	34.95	35.46	35.23	35.53	36.43	35.43	35.01	34.89	34.85	34.86	
10	34.79	34.63	34.94	35.41	35.18	35.72	36.85	35.37	35.01	34.89	34.84	34.85	
11	34.82	34.63	35.12	35.24	35.23	36.67	36.20	35.33	35.01	34.88	34.84	34.85	
12	34.89	34.63	35.34	35.16	35.41	36.51	35.80	35.30	35.00	34.87	34.83	34.85	
13	34.83	34.63	35.29	35.20	35.40	35.92	35.73	35.28	35.00	34.87	34.83	34.85	
14	34.79	34.63	35.15	35.14	35.24	35.67	35.80	35.25	34.99	34.87	34.83	34.85	
15	34.77	34.65	35.07	35.08	35.25	35.73	35.75	35.23	34.98	34.87	34.83	34.86	
16	34.77	34.84	35.06	35.05	35.32	35.59	35.98	35.22	34.98	34.87	34.82	34.86	
17	34.76	34.84	34.99	35.02	35.54	35.55	35.86	35.21	34.97	34.87	34.82	34.85	
18	34.75	34.83	35.00	35.01	35.54	36.00	35.69	35.20	34.97	34.87	34.82	34.84	
19	34.73	34.80	35.09	35.03	35.55	35.75	35.55	35.19	34.97	34.87	34.81	34.83	
20	34.72	34.79	34.97	35.03	35.78	35.73	35.48	35.18	34.97	34.87	34.81	34.82	
21	34.72	34.79	34.98	35.05	35.57	35.56	35.43	35.16	34.96	34.86	34.81	34.81	
22	34.72	34.81	34.99	35.13	35.45	35.48	35.83	35.15	34.96	34.86	34.82	34.81	
23	34.71	35.04	35.01	36.22	35.41	35.52	37.35	35.13	34.95	34.86	34.83	34.81	
24	34.71	35.12	35.10	36.27	36.34	35.48	36.42	35.13	34.95	34.86	34.84	34.81	
25	34.70	35.23	35.44	36.08	37.14	35.97	36.71	35.11	34.95	34.86	34.84	34.81	
26	34.69	35.10	35.35	35.90	36.13	35.64	36.83	35.11	34.94	34.85	34.86	34.81	
27	34.68	35.11	35.34	35.74	35.69	35.49	35.94	35.09	34.94	34.85	34.85	34.81	
28	34.67	35.00	35.26	35.52	35.54	36.38	35.72	35.09	34.93	34.85	34.93	34.81	
29	34.65	35.02	36.04	35.68	35.46	37.46	35.61	35.08	34.93	34.85		34.81	
30	34.65	34.96	36.27	35.66	36.03	36.85	35.54	35.07	34.93	34.85		34.81	
31		34.91		35.49	36.41		35.50		34.93	34.85		34.81	
MEAN	34.74	34.80	35.18	35.39	35.59	35.89	36.08	35.27	34.98	34.88	34.84	34.84	
MAX	34.89	35.23	36.27	36.27	37.14	37.46	37.35	35.88	35.05	34.93	34.93	34.90	37.46
MIN	34.65	34.63	34.86	35.01	35.18	35.48	35.43	35.07	34.93	34.85	34.81	34.81	34.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 37.96 M (MSL), AT 2.00 HOURS, ON SEP 29, 1980
ZERO GAGE AT BOTTOM ELEVATION 34.61 M (MSL), RIVER BED 33.40 M (MSL)
LEFT BANK ELEVATION 43.24 M (MSL)
RIGHT BANK ELEVATION 44.37 M (MSL), DRAINAGE AREA 366 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.05	0.32	11.40	5.01	19.08	49.75	4.57	1.00	0.52	0.30	0.32	
2	0.13	0.05	1.12	4.86	8.00	11.18	34.88	4.00	1.00	0.48	0.30	0.40	
3	0.13	0.04	2.34	2.82	4.57	9.35	16.70	3.62	0.96	0.48	0.30	0.38	
4	0.13	0.04	1.38	1.89	4.72	10.95	51.61	3.39	0.96	0.44	0.30	0.36	
5	0.12	0.04	1.16	2.07	3.62	11.18	28.19	3.28	0.92	0.44	0.30	0.32	
6	0.15	0.04	1.32	1.62	2.52	11.62	15.70	3.62	0.92	0.40	0.30	0.30	
7	0.19	0.04	1.12	2.07	2.82	12.30	10.35	12.75	0.88	0.40	0.30	0.34	
8	0.20	0.04	0.80	1.80	2.93	7.43	8.57	5.82	0.88	0.38	0.30	0.36	
9	0.20	0.03	0.60	4.72	2.07	5.82	28.19	4.28	0.84	0.38	0.30	0.32	
10	0.19	0.03	0.56	4.00	1.68	9.35	44.35	3.51	0.84	0.38	0.28	0.30	
11	0.24	0.03	1.32	2.16	2.07	36.83	21.15	3.04	0.84	0.36	0.28	0.30	
12	0.38	0.03	3.16	1.56	4.00	30.86	10.95	2.70	0.80	0.34	0.26	0.30	
13	0.26	0.03	2.61	1.80	3.85	13.70	9.55	2.52	0.80	0.34	0.26	0.30	
14	0.19	0.03	1.50	1.44	2.16	8.38	10.95	2.25	0.76	0.34	0.26	0.30	
15	0.17	0.05	1.08	1.12	2.25	9.55	9.95	2.07	0.72	0.34	0.26	0.32	
16	0.17	0.28	1.04	1.00	2.93	6.87	15.20	1.98	0.72	0.34	0.24	0.32	
17	0.16	0.28	0.76	0.88	6.00	6.17	12.30	1.89	0.68	0.34	0.24	0.30	
18	0.15	0.26	0.80	0.84	6.00	15.70	8.76	1.80	0.68	0.34	0.24	0.28	
19	0.13	0.20	1.16	0.92	6.17	9.95	6.17	1.74	0.68	0.34	0.22	0.26	
20	0.12	0.19	0.68	0.92	10.55	9.55	5.01	1.68	0.68	0.34	0.22	0.24	
21	0.12	0.19	0.72	1.00	6.53	6.35	4.28	1.56	0.64	0.32	0.22	0.22	
22	0.12	0.22	0.76	1.38	4.57	5.01	11.62	1.50	0.64	0.32	0.24	0.22	
23	0.11	0.96	0.84	21.74	4.00	5.65	69.50	1.38	0.60	0.32	0.26	0.22	
24	0.11	1.32	1.20	23.22	25.34	5.01	27.86	1.38	0.60	0.32	0.28	0.22	
25	0.10	2.07	4.43	17.70	58.28	14.95	38.41	1.26	0.60	0.32	0.28	0.22	
26	0.09	1.20	3.28	13.20	19.08	7.81	43.45	1.26	0.56	0.30	0.32	0.22	
27	0.08	1.26	3.16	9.75	8.76	5.15	14.20	1.16	0.56	0.30	0.30	0.22	
28	0.07	0.80	2.34	5.65	6.00	26.58	9.35	1.16	0.52	0.30	0.52	0.22	
29	0.05	0.88	16.70	8.57	4.72	75.78	7.24	1.12	0.52	0.30		0.22	
30	0.05	0.64	23.22	8.19	16.45	44.35	6.00	1.08	0.52	0.30		0.22	
31		0.44		5.15	27.53		5.30		0.52	0.30		0.22	
TOTAL	4.44	11.76	81.48	165.44	265.18	452.46	635.49	83.37	22.84	11.12	7.88	8.74	1750.20 CMSDAY
MEAN	0.15	0.38	2.72	5.34	8.55	15.08	20.50	2.78	0.74	0.36	0.28	0.28	4.80 CMS
MAX	0.38	2.07	23.22	23.22	58.28	75.78	69.50	12.75	1.00	0.52	0.52	0.40	75.78 CMS
MIN	0.05	0.03	0.32	0.84	1.68	5.01	4.28	1.08	0.52	0.30	0.22	0.22	0.03 CMS
RUNOFF	0.384	1.016	7.040	14.294	22.912	39.092	54.906	7.203	1.973	0.961	0.681	0.755	151.217 MCM

MOMENTARY PEAK 110.20 CMS, AT 37.96 M (MSL), AT 2.00 HOURS, ON SEP 29, 1980
RUNOFF YIELD 13.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 301.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

HUAI SAMONG AT BAN KAENG DIN SO, PRACHIN BURI (KGT.15A)

LOCATION — LAT. 14°-03'-46" N., LONG. 101°-55'-39" E., ON RIGHT BANK AT BAN KAENG DIN SO ABOUT 15 KILOMETERS UPSTREAM FROM THE KGT.15 STATION, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA — 530 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=M.D.

LOCATION — INFRONT OF THE STATION OFFICE AND NEAR THE RAIN GAGE.

ELEVATION — +9.615 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1968 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

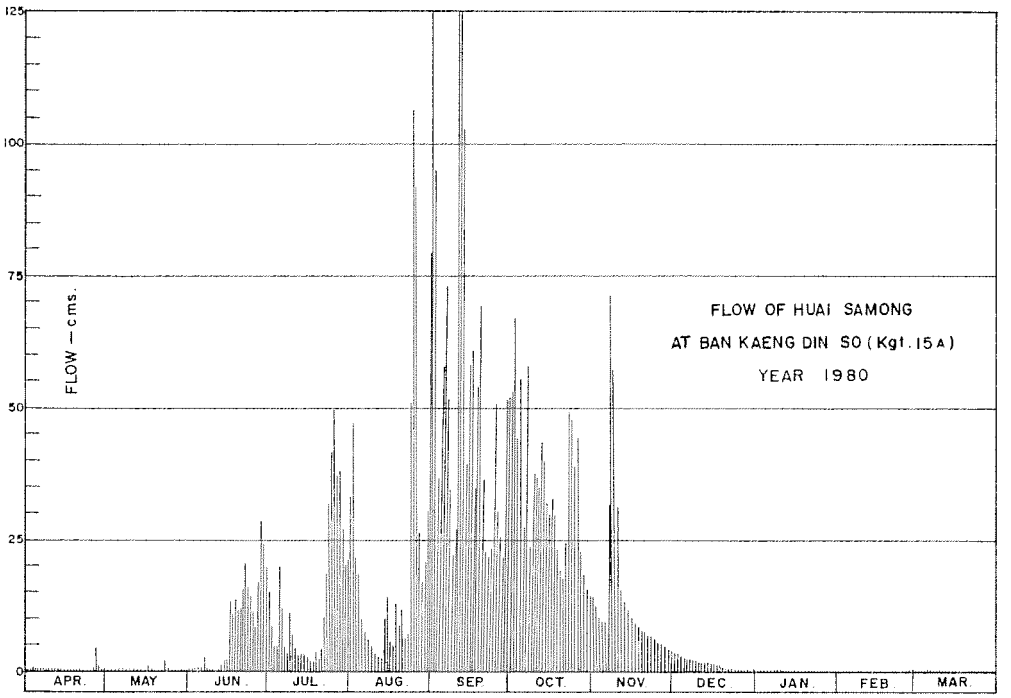
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 92 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.57	0.58	0.66	1.89	2.68	4.91	3.16	1.79	1.21	0.81	0.69	0.77	
2	0.64	0.58	0.66	1.52	3.00	3.90	3.53	1.67	1.20	0.79	0.69	0.71	
3	0.70	0.57	0.65	1.29	2.18	2.89	2.88	1.58	1.18	0.79	0.69	0.72	
4	0.66	0.57	0.65	1.22	2.05	2.82	3.23	1.56	1.14	0.79	0.70	0.70	
5	0.64	0.58	0.65	2.04	1.63	3.31	2.65	1.53	1.13	0.78	0.68	0.68	
6	0.63	0.57	0.94	1.58	1.50	3.68	2.31	1.57	1.11	0.78	0.68	0.69	
7	0.63	0.56	1.12	1.26	1.44	2.92	3.30	3.64	1.10	0.78	0.67	0.69	
8	0.62	0.55	0.83	1.13	1.37	2.37	2.11	3.14	1.10	0.77	0.67	0.67	
9	0.61	0.54	0.76	1.62	1.28	2.11	2.31	2.76	1.09	0.76	0.67	0.67	
10	0.58	0.53	0.74	1.42	1.22	2.32	2.70	2.43	1.07	0.76	0.66	0.66	
11	0.58	0.54	0.77	1.24	1.17	4.88	2.67	1.94	1.06	0.75	0.66	0.65	
12	0.58	0.56	0.77	1.22	1.14	5.09	2.61	1.79	1.04	0.74	0.66	0.67	
13	0.57	0.55	0.94	1.13	1.11	3.87	2.90	1.69	1.03	0.73	0.65	0.64	
14	0.56	0.54	1.01	1.18	1.08	2.75	2.52	1.63	1.03	0.73	0.65	0.66	
15	0.56	0.54	1.08	1.11	1.77	3.27	2.49	1.60	1.00	0.73	0.65	0.64	
16	0.55	0.55	0.93	1.13	1.34	3.37	2.43	1.54	0.99	0.73	0.65	0.62	
17	0.55	0.92	1.73	1.04	1.24	2.60	2.55	1.50	0.98	0.72	0.64	0.61	
18	0.55	0.70	1.57	0.99	1.71	3.14	2.31	1.47	0.97	0.72	0.63	0.60	
19	0.55	0.62	1.76	1.19	1.47	3.58	2.09	1.45	0.94	0.72	0.63	0.59	
20	0.54	0.60	1.60	1.07	1.65	2.78	1.98	1.45	0.90	0.72	0.63	0.58	
21	0.54	0.61	1.75	1.16	1.45	2.38	1.94	1.41	0.87	0.72	0.63	0.59	
22	0.53	0.94	2.06	1.53	1.34	2.13	2.30	1.39	0.87	0.72	0.63	0.59	
23	0.53	1.07	1.87	1.94	1.43	2.13	3.05	1.40	0.85	0.71	0.63	0.59	
24	0.52	0.76	1.84	2.48	2.72	2.52	2.98	1.37	0.85	0.71	0.63	0.59	
25	0.52	0.68	1.69	2.39	4.48	3.10	2.74	1.32	0.84	0.71	0.64	0.59	
26	0.51	0.67	1.40	3.07	3.81	2.47	2.92	1.32	0.84	0.71	0.68	0.58	
27	0.96	0.64	1.84	2.67	2.55	2.23	2.34	1.30	0.83	0.70	0.67	0.58	
28	0.76	0.64	2.40	2.73	2.04	2.11	2.06	1.28	0.82	0.70	0.80	0.58	
29	0.66	0.68	2.25	2.42	1.78	3.12	1.92	1.25	0.82	0.70		0.58	
30	0.63	0.67	2.07	2.20	2.43	3.10	1.83	1.22	0.81	0.70		0.58	
31		0.67		1.94	3.46		1.77		0.81	0.69		0.58	
MEAN	0.60	0.64	1.30	1.65	1.92	3.06	2.53	1.70	0.98	0.74	0.66	0.63	
MAX	0.96	1.07	2.40	3.07	4.48	5.09	3.53	3.64	1.21	0.81	0.80	0.77	5.09
MIN	0.51	0.53	0.65	0.99	1.08	2.11	1.77	1.22	0.81	0.69	0.63	0.58	0.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.46 M (A.D), AT 18.00 HOURS, ON SEP 11, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.87 M (A.D)
LEFT BANK ELEVATION 13.06 M (A.D)
RIGHT BANK ELEVATION 10.65 M (A.D), DRAINAGE AREA 530 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.16	0.32	16.39	36.60	130.53	52.70	14.31	4.05	0.64	0.38	0.54	
2	0.28	0.16	0.32	9.18	47.10	82.27	66.90	12.03	3.90	0.58	0.38	0.42	
3	0.40	0.14	0.30	5.25	23.02	43.37	43.04	10.32	3.64	0.58	0.36	0.44	
4	0.32	0.14	0.30	4.20	19.95	41.06	55.24	9.94	3.12	0.58	0.40	0.40	
5	0.28	0.16	0.30	19.72	11.27	58.29	35.70	9.37	2.99	0.56	0.36	0.36	
6	0.26	0.14	1.28	10.32	8.80	72.98	26.26	10.13	2.73	0.56	0.36	0.38	
7	0.26	0.12	2.86	4.80	7.72	44.38	57.90	71.34	2.60	0.56	0.34	0.38	
8	0.24	0.10	0.72	2.99	6.52	27.82	21.34	52.00	2.60	0.54	0.34	0.34	
9	0.22	0.08	0.52	11.08	5.10	21.34	26.26	39.12	2.51	0.52	0.34	0.34	
10	0.16	0.06	0.48	7.36	4.20	26.52	37.20	29.44	2.33	0.52	0.32	0.32	
11	0.16	0.08	0.54	4.50	3.51	128.96	36.30	17.48	2.24	0.50	0.32	0.30	
12	0.16	0.12	0.54	4.20	3.12	140.07	34.50	14.31	2.06	0.48	0.32	0.34	
13	0.14	0.10	1.28	2.99	2.73	81.00	43.70	12.41	1.97	0.46	0.30	0.28	
14	0.12	0.08	1.79	3.64	2.42	38.80	31.96	11.27	1.97	0.46	0.30	0.32	
15	0.12	0.08	2.42	2.73	13.93	56.76	31.12	10.70	1.70	0.46	0.30	0.28	
16	0.10	0.10	1.21	2.99	6.04	60.63	29.44	9.56	1.63	0.46	0.30	0.24	
17	0.10	1.14	13.17	2.06	4.50	34.20	32.80	8.80	1.56	0.44	0.28	0.22	
18	0.10	0.40	10.13	1.63	12.79	52.00	26.26	8.26	1.49	0.44	0.26	0.20	
19	0.10	0.24	13.74	3.77	8.26	68.90	20.87	7.90	1.28	0.44	0.26	0.18	
20	0.08	0.20	10.70	2.33	11.65	39.76	18.36	7.90	1.00	0.44	0.26	0.16	
21	0.08	0.22	13.55	3.38	7.90	28.08	17.48	7.18	0.88	0.44	0.26	0.18	
22	0.06	1.28	20.18	9.37	6.04	21.82	26.00	6.84	0.88	0.44	0.26	0.18	
23	0.06	2.33	15.97	17.48	7.54	21.82	48.85	7.00	0.80	0.42	0.26	0.18	
24	0.04	0.52	15.34	30.84	37.84	31.96	46.42	6.52	0.80	0.42	0.26	0.18	
25	0.04	0.36	12.41	43.37	108.64	50.60	38.48	5.72	0.76	0.42	0.28	0.18	
26	0.02	0.34	7.00	49.55	78.46	30.56	44.38	5.72	0.76	0.42	0.36	0.16	
27	1.42	0.28	15.34	36.30	32.80	24.25	27.04	5.40	0.72	0.40	0.34	0.18	
28	0.52	0.28	28.60	38.16	19.72	21.34	20.18	5.10	0.68	0.40	0.60	0.18	
29	0.32	0.36	24.75	29.16	14.12	51.30	17.04	4.65	0.68	0.40		0.16	
30	0.26	0.34	20.41	23.50	29.44	50.60	15.13	4.20	0.64	0.40		0.16	
31		0.34		17.48	64.14		13.93		0.64	0.38		0.16	
TOTAL	6.56	10.45	236.47	420.72	645.87	1581.97	1042.78	424.92	55.61	14.76	9.12	8.30	4457.52 CMSDAY
MEAN	0.22	0.34	7.88	13.57	20.83	52.73	33.64	14.16	1.79	0.48	0.33	0.27	12.21 CMS
MAX	1.42	2.33	28.60	49.55	108.64	140.07	66.90	71.34	4.05	0.64	0.60	0.54	140.07 CMS
MIN	0.02	0.06	0.30	1.63	2.42	21.34	13.93	4.20	0.64	0.38	0.26	0.16	0.02 CMS
RUNOFF	0.567	0.903	20.431	36.350	55.803	136.682	90.096	36.713	4.805	1.275	0.788	0.717	385.130 MCM

MOMENTARY PEAK 160.72 CMS, AT 5.46 M (A.D), AT 18.00 HOURS, ON SEP 11, 1980

RUNOFF YIELD 23.04 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 303.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

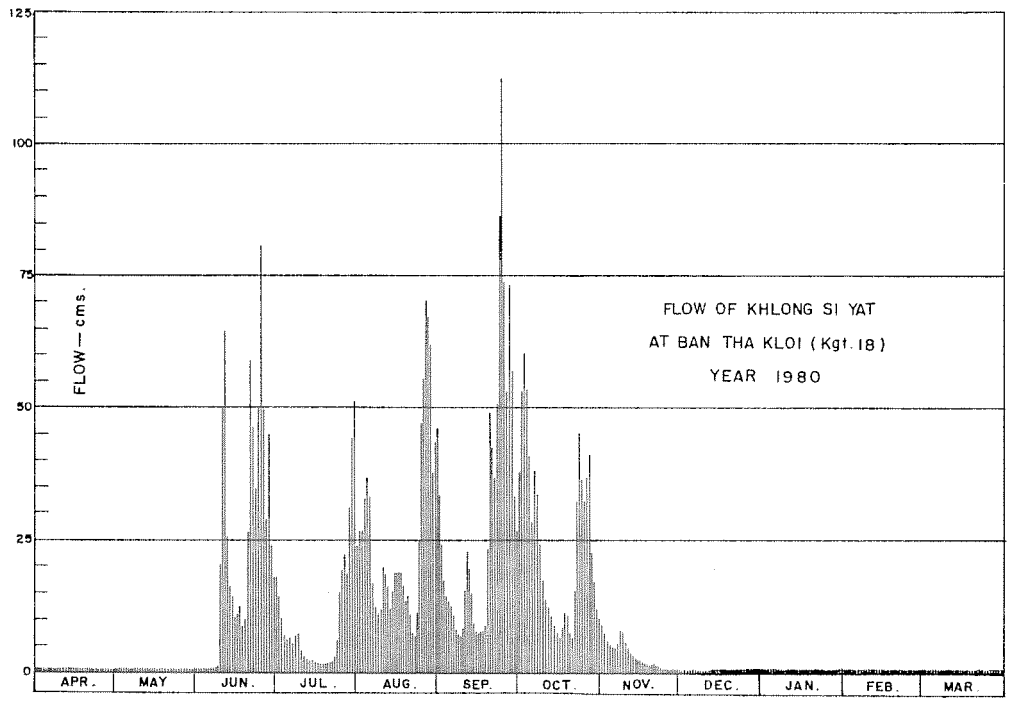
KHLONG SI YAT AT BAN THA KLOI, CHACHOENGSAO (KGT.18)

LOCATION	LAT. 13°-28'-29" N., LONG. 101°-37'-44" E., ON RIGHT BANK AT BAN THA KLOI, AMPHOE SANAM CHAI KHET, CHACHOENGSAO.
DRAINAGE AREA	951 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	UNDER THE COCONUT TREE INFRONT OF THE STATION OFFICE.
ELEVATION	+7.213 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.44	0.84	2.74	2.94	3.62	3.77	2.05	1.03	0.80	0.73	0.87	
2	0.46	0.44	0.89	2.51	3.26	2.91	4.72	1.92	1.02	0.79	0.75	0.81	
3	0.46	0.44	0.90	2.15	3.27	2.56	4.56	1.81	1.01	0.77	0.78	0.78	
4	0.46	0.44	0.87	1.90	3.75	2.41	4.37	1.73	1.00	0.76	0.77	0.77	
5	0.48	0.44	0.84	1.80	3.59	2.40	3.46	1.68	0.98	0.76	0.80	0.75	
6	0.48	0.44	0.93	1.88	2.78	2.24	3.16	1.65	0.98	0.85	0.79	0.76	
7	0.49	0.42	0.99	1.74	2.61	2.06	3.82	1.73	0.97	0.81	0.78	0.75	
8	0.49	0.42	1.12	1.78	2.28	1.92	3.43	1.99	0.96	0.79	0.76	0.74	
9	0.49	0.41	1.21	1.92	2.22	1.87	2.96	1.91	0.95	0.78	0.76	0.74	
10	0.49	0.48	2.81	1.71	2.29	2.03	2.69	1.76	0.94	0.78	0.75	0.75	
11	0.49	0.89	4.83	1.56	2.86	2.59	2.44	1.64	0.93	0.78	0.75	0.77	
12	0.49	0.84	3.32	1.44	2.69	3.03	2.31	1.55	0.93	0.77	0.75	0.76	
13	0.49	0.82	2.72	1.36	2.32	2.41	2.19	1.49	0.92	0.76	0.75	0.74	
14	0.49	0.81	2.55	1.35	2.19	2.10	2.05	1.43	0.91	0.76	0.74	0.74	
15	0.49	0.79	2.31	1.39	2.79	1.95	1.98	1.39	0.91	0.75	0.74	0.74	
16	0.49	0.77	1.94	1.32	2.79	1.95	1.87	1.34	0.90	0.75	0.74	0.74	
17	0.49	0.76	2.34	1.28	2.80	1.94	1.87	1.30	0.89	0.75	0.74	0.74	
18	0.49	0.75	1.98	1.26	2.72	2.00	2.26	1.26	0.88	0.74	0.73	0.74	
19	0.48	0.74	2.13	1.30	2.38	2.12	2.20	1.25	0.88	0.75	0.73	0.73	
20	0.48	0.75	2.53	1.30	2.50	4.27	1.91	1.23	0.87	0.75	0.74	0.73	
21	0.48	0.75	4.65	1.32	2.16	3.98	1.79	1.20	0.87	0.74	0.74	0.72	
22	0.48	0.77	4.12	1.33	1.94	3.29	2.54	1.17	0.87	0.74	0.73	0.72	
23	0.48	0.76	2.98	1.34	1.84	4.90	4.12	1.15	0.86	0.74	0.73	0.71	
24	0.48	0.76	4.01	1.52	2.51	6.03	3.89	1.13	0.85	0.74	0.73	0.70	
25	0.48	0.77	5.30	2.20	4.08	4.73	3.38	1.11	0.85	0.74	0.72	0.70	
26	0.48	0.77	4.20	2.74	4.53	4.35	3.71	1.10	0.84	0.74	0.72	0.70	
27	0.48	0.77	3.34	3.00	5.02	5.11	3.94	1.08	0.84	0.74	0.73	0.69	
28	0.46	0.76	4.10	2.74	4.81	4.45	3.02	1.07	0.83	0.74	0.93	0.69	
29	0.46	0.76	3.10	3.28	3.87	3.67	2.59	1.06	0.83	0.72		0.69	
30	0.45	0.75	2.71	4.37	3.33	3.17	2.33	1.05	0.83	0.72		0.68	
31		0.80		3.27	4.16		2.16		0.82	0.73		0.68	
MEAN	0.48	0.67	2.55	1.96	3.01	3.07	2.95	1.44	0.91	0.76	0.75	0.74	
MAX	0.49	0.89	5.30	4.37	5.02	6.03	4.72	2.05	1.03	0.85	0.93	0.87	6.03
MIN	0.45	0.41	0.84	1.26	1.84	1.87	1.79	1.05	0.82	0.72	0.72	0.68	0.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.15 M (A.D), AT 15.00 HOURS, ON SEP 24, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.15 M (A.D)
LEFT BANK ELEVATION 7.25 M (A.D)
RIGHT BANK ELEVATION 6.85 M (A.D), DRAINAGE AREA 951 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.14	18.10	21.28	34.22	37.44	9.00	0.52	0.10	0.03	0.17	
2	0.00	0.00	0.19	14.84	26.99	20.77	61.22	7.44	0.48	0.09	0.05	0.11	
3	0.00	0.00	0.20	10.20	27.17	15.82	56.58	6.30	0.44	0.07	0.08	0.08	
4	0.00	0.00	0.17	7.20	37.00	13.44	51.48	5.50	0.40	0.06	0.07	0.07	
5	0.00	0.00	0.14	6.20	33.59	13.30	30.86	5.02	0.36	0.06	0.10	0.05	
6	0.00	0.00	0.26	7.00	18.70	11.28	25.12	4.75	0.36	0.15	0.09	0.06	
7	0.00	0.00	0.38	5.60	16.24	9.12	38.54	5.50	0.34	0.11	0.08	0.05	
8	0.00	0.00	0.92	6.00	11.76	7.44	30.23	8.28	0.32	0.09	0.06	0.04	
9	0.00	0.00	1.46	7.44	11.04	6.90	21.62	7.32	0.30	0.08	0.06	0.04	
10	0.00	0.00	19.16	5.30	11.88	8.76	17.36	5.80	0.28	0.08	0.05	0.05	
11	0.00	0.19	64.63	3.98	19.96	15.96	13.86	4.66	0.26	0.08	0.05	0.07	
12	0.00	0.14	28.11	3.02	17.36	22.81	12.13	3.90	0.26	0.07	0.05	0.06	
13	0.00	0.12	17.80	2.42	12.26	13.44	10.68	3.42	0.24	0.06	0.05	0.04	
14	0.00	0.11	15.40	2.35	10.68	9.60	9.00	2.94	0.22	0.06	0.04	0.04	
15	0.00	0.09	12.13	2.63	18.85	7.80	8.16	2.63	0.22	0.05	0.04	0.04	
16	0.00	0.07	7.68	2.14	19.85	7.80	6.90	2.28	0.20	0.05	0.04	0.04	
17	0.00	0.06	12.52	1.88	19.00	7.68	6.90	2.00	0.19	0.05	0.04	0.04	
18	0.00	0.05	8.16	1.76	17.80	8.40	11.52	1.76	0.18	0.04	0.03	0.04	
19	0.00	0.04	9.96	2.00	13.04	9.84	10.80	1.70	0.18	0.05	0.03	0.03	
20	0.00	0.05	15.12	2.00	14.70	49.08	7.32	1.58	0.17	0.05	0.04	0.03	
21	0.00	0.05	59.15	2.14	10.32	42.14	6.10	1.40	0.17	0.04	0.04	0.02	
22	0.00	0.07	45.48	2.21	7.68	27.55	15.26	1.22	0.17	0.04	0.03	0.02	
23	0.00	0.06	21.96	2.28	6.60	66.80	45.48	1.10	0.16	0.04	0.03	0.01	
24	0.00	0.06	42.84	3.66	14.84	112.11	40.08	0.98	0.15	0.04	0.03	0.00	
25	0.00	0.07	80.60	10.80	44.52	61.53	29.23	0.86	0.15	0.04	0.02	0.00	
26	0.00	0.07	47.40	18.10	55.74	51.00	36.12	0.80	0.14	0.04	0.02	0.00	
27	0.00	0.07	28.48	22.30	70.56	73.56	41.22	0.72	0.14	0.04	0.03	0.00	
28	0.00	0.06	45.00	18.10	64.01	53.55	22.64	0.68	0.13	0.04	0.26	0.00	
29	0.00	0.06	24.00	27.36	39.64	35.27	15.96	0.64	0.13	0.02		0.00	
30	0.00	0.05	17.65	51.48	28.29	25.31	12.39	0.60	0.13	0.02		0.00	
31		0.10		27.17	46.44		10.32		0.12	0.03		0.00	
TOTAL	0.00	1.64	627.09	297.66	766.79	842.28	742.52	100.78	7.51	1.84	1.54	1.20	3390.85 CMSDAY
MEAN	0.00	0.05	20.90	9.60	24.74	28.08	23.95	3.36	0.24	0.06	0.05	0.04	9.29 CMS
MAX	0.00	0.19	80.60	51.48	70.56	112.11	61.22	9.00	0.52	0.15	0.26	0.17	112.11 CMS
MIN	0.00	0.00	0.14	1.76	6.60	6.90	6.10	0.60	0.12	0.02	0.02	0.00	0.00 CMS
RUNOFF	0.000	0.142	54.181	25.718	66.251	72.773	64.154	8.707	0.649	0.159	0.133	0.104	292.969 MCM

MOMENTARY PEAK 117.80 CMS, AT 6.15 M (A.D), AT 15.00 HOURS, ON SEP 24, 1980

RUNOFF YIELD 9.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 123.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

KHLONG LUANG AT BAN MAI, CHON BURI (KGT.19)

LOCATION — LAT. 13°-23'-17" N., LONG. 101°-20'-40" E., ON LEFT BANK ABOUT 4 KILOMETERS EAST OF KHOK PHO MARKET AND ABOUT 16 KILOMETERS FROM AMPHOE PHANAT NIKHOM, CHON BURI.

DRAINAGE AREA — 535 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +20.124 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — BESIDE THE METEOROLOGICAL STATION.

ELEVATION — +25.658 M. (M.S.L.)

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 — 1965 - 1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965 - 1974

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

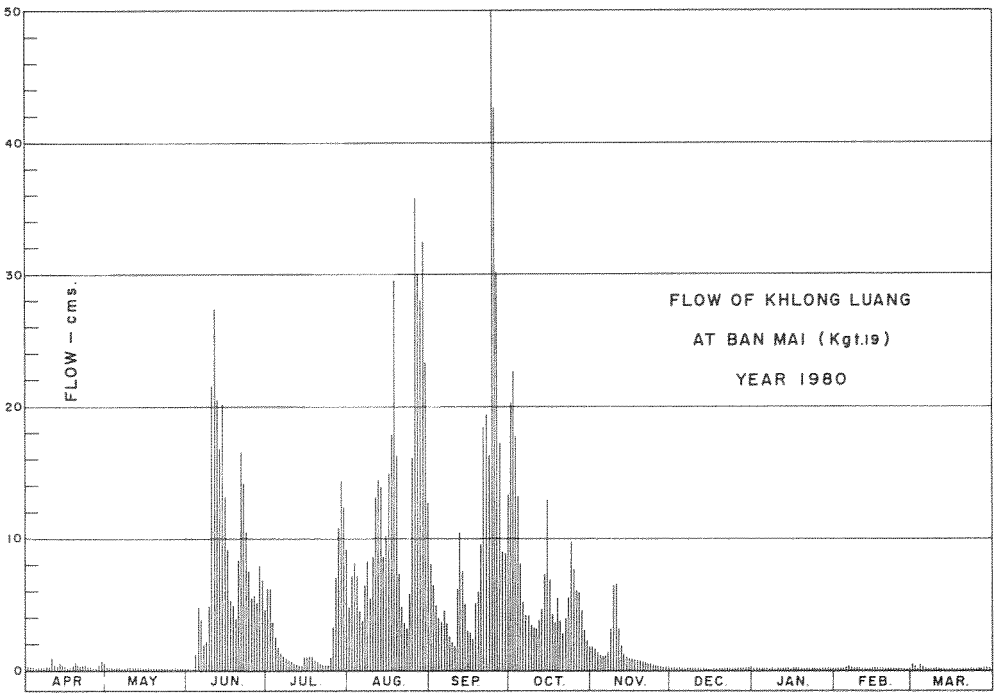
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +25.32 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 336 DISCHARGE MEASUREMENTS MADE DURING 1972-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	20.72	20.87	20.69	22.76	22.41	23.07	24.74	21.55	20.81	20.58	20.61	20.99	
2	20.71	20.77	20.65	22.76	22.98	22.78	24.91	21.47	20.79	20.57	20.61	20.84	
3	20.79	20.71	20.72	22.13	23.18	22.45	24.51	21.40	20.77	20.58	20.60	20.78	
4	20.67	20.68	21.38	21.79	22.91	22.20	23.89	21.32	20.78	20.60	20.63	21.02	
5	20.65	20.65	22.38	21.54	22.27	22.12	22.80	21.28	20.75	20.63	20.71	20.82	
6	20.64	20.64	22.08	21.38	22.10	22.34	22.38	21.27	20.75	20.62	20.91	20.71	
7	20.65	20.66	21.56	21.30	22.84	22.04	22.24	21.41	20.74	20.62	20.84	20.65	
8	20.69	20.66	21.65	21.22	23.19	21.78	22.26	22.00	20.74	20.64	20.60	20.61	
9	20.72	20.67	22.44	21.14	22.55	21.67	22.07	22.82	20.78	20.64	20.67	20.60	
10	21.19	20.71	24.80	21.10	23.15	21.84	22.02	22.83	20.71	20.64	20.62	20.59	
11	20.91	20.67	25.15	21.05	24.00	22.86	21.99	21.87	20.70	20.63	20.58	20.57	
12	20.83	20.67	24.53	20.99	24.17	23.59	22.16	21.55	20.68	20.62	20.56	20.56	
13	21.03	20.65	24.43	20.96	24.07	22.91	22.38	21.39	20.71	20.62	20.55	20.70	
14	20.94	20.63	24.74	20.95	23.22	22.25	22.98	21.30	20.70	20.62	20.55	20.65	
15	20.78	20.63	23.99	21.28	23.52	21.93	23.99	21.23	20.67	20.63	20.54	20.60	
16	20.73	20.63	23.31	21.25	24.24	21.74	22.53	21.18	20.67	20.63	20.52	20.56	
17	20.75	20.61	22.54	21.28	24.57	21.73	22.20	21.17	20.65	20.64	20.52	20.55	
18	20.83	20.60	22.47	21.26	25.23	22.48	22.10	21.14	20.65	20.65	20.51	20.59	
19	21.02	20.60	22.17	21.14	23.84	22.72	22.58	21.12	20.64	20.64	20.50	20.56	
20	20.92	20.66	22.88	21.10	22.81	23.51	21.95	21.09	20.64	20.64	20.51	20.60	
21	20.82	20.67	24.42	21.05	22.38	24.60	21.83	21.07	20.63	20.64	20.51	20.57	
22	20.89	20.68	24.07	21.01	22.10	24.68	22.25	21.05	20.63	20.64	20.51	20.54	
23	20.94	20.67	23.52	20.96	21.97	24.39	22.62	21.03	20.62	20.63	20.51	20.53	
24	20.79	20.66	22.99	20.97	22.78	25.58	23.48	20.97	20.60	20.62	20.50	20.51	
25	20.72	20.73	22.55	21.26	24.56	25.37	23.09	20.94	20.60	20.62	20.50	20.49	
26	20.71	20.71	22.64	22.00	25.39	25.07	22.68	20.92	20.59	20.62	20.49	20.48	
27	20.70	20.70	22.51	23.04	25.22	24.46	22.69	20.89	20.58	20.62	20.49	20.48	
28	20.69	20.66	23.14	23.66	25.17	23.33	22.29	20.85	20.58	20.61	20.59	20.47	
29	21.14	20.64	22.84	24.16	25.32	23.32	21.98	20.84	20.59	20.61		20.47	
30	21.06	20.63	22.33	23.81	24.79	23.78	21.76	20.84	20.59	20.61		20.73	
31		20.76		23.08	23.82		21.53		20.58	20.61		20.87	
MEAN	20.82	20.67	22.85	21.72	23.57	23.09	22.67	21.33	20.67	20.62	20.58	20.64	
MAX	21.19	20.87	25.15	24.16	25.39	25.58	24.91	22.83	20.81	20.65	20.91	21.02	25.58
MIN	20.64	20.60	20.65	20.95	21.97	21.67	21.53	20.84	20.58	20.57	20.49	20.47	20.47

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.66 M (MSL), AT 6.00 HOURS, ON SEP 24, 1980
ZERO GAGE AT BOTTOM ELEVATION 20.12 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 25.32 M (MSL)
RIGHT BANK ELEVATION 25.45 M (MSL), DRAINAGE AREA 535 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.17	0.32	0.15	6.19	4.79	7.65	20.16	1.85	0.26	0.09	0.10	0.48	
2	0.16	0.22	0.13	6.19	7.20	6.27	22.67	1.61	0.24	0.08	0.10	0.29	
3	0.24	0.16	0.17	3.70	8.20	4.95	17.50	1.40	0.22	0.09	0.10	0.23	
4	0.14	0.14	1.35	2.57	6.85	3.95	12.38	1.20	0.23	0.10	0.12	0.54	
5	0.13	0.13	4.67	1.82	4.23	3.67	6.35	1.10	0.20	0.12	0.16	0.27	
6	0.12	0.12	3.53	1.35	3.60	4.51	4.67	1.07	0.20	0.11	0.36	0.16	
7	0.13	0.13	1.88	1.15	6.53	3.39	4.11	1.43	0.19	0.11	0.29	0.13	
8	0.15	0.13	2.15	0.95	8.25	2.54	4.19	3.25	0.19	0.12	0.10	0.10	
9	0.17	0.14	4.91	0.78	5.35	2.21	3.49	6.44	0.23	0.12	0.14	0.10	
10	0.88	0.16	21.00	0.70	8.05	2.72	3.32	6.48	0.16	0.12	0.11	0.09	
11	0.36	0.14	27.40	0.60	13.15	6.62	3.22	2.81	0.15	0.12	0.09	0.08	
12	0.28	0.14	17.70	0.48	14.41	10.44	3.81	1.85	0.14	0.11	0.08	0.08	
13	0.56	0.13	16.70	0.44	13.64	6.85	4.67	1.37	0.16	0.11	0.07	0.15	
14	0.41	0.12	20.16	0.42	8.40	4.15	7.20	1.15	0.15	0.11	0.07	0.13	
15	0.23	0.12	13.08	1.10	10.02	3.00	13.08	0.97	0.14	0.12	0.07	0.10	
16	0.18	0.12	8.85	1.02	14.99	2.42	5.27	0.86	0.14	0.12	0.06	0.08	
17	0.20	0.10	5.31	1.10	18.10	2.39	3.95	0.84	0.13	0.12	0.06	0.07	
18	0.28	0.10	5.03	1.05	29.50	5.07	3.60	0.78	0.13	0.13	0.06	0.09	
19	0.54	0.10	3.85	0.78	12.03	6.03	5.47	0.74	0.12	0.12	0.05	0.08	
20	0.38	0.13	6.71	0.70	6.39	9.96	3.07	0.68	0.12	0.12	0.06	0.10	
21	0.27	0.14	16.60	0.60	4.67	18.40	2.69	0.64	0.12	0.12	0.06	0.08	
22	0.34	0.14	13.64	0.52	3.60	19.36	4.15	0.60	0.12	0.12	0.06	0.07	
23	0.41	0.14	10.02	0.44	3.14	16.31	5.63	0.56	0.11	0.12	0.06	0.07	
24	0.24	0.13	7.25	0.45	6.27	56.10	9.79	0.45	0.10	0.11	0.05	0.06	
25	0.17	0.13	5.35	1.05	18.00	34.82	7.75	0.41	0.10	0.11	0.05	0.05	
26	0.16	0.16	5.71	3.25	35.74	25.60	5.87	0.38	0.09	0.11	0.05	0.04	
27	0.15	0.15	5.19	7.50	29.20	17.00	5.91	0.34	0.09	0.11	0.05	0.04	
28	0.15	0.13	8.00	10.86	27.88	8.96	4.31	0.30	0.09	0.10	0.09	0.03	
29	0.78	0.12	6.53	14.33	32.52	8.91	3.18	0.29	0.09	0.10		0.03	
30	0.62	0.12	4.47	11.82	20.86	11.62	2.48	0.29	0.09	0.10		0.18	
31		0.21		7.70	11.89		1.79		0.09	0.10		0.32	
TOTAL	9.00	4.47	247.49	91.61	397.45	315.87	205.73	42.14	4.59	3.44	2.72	4.32	1328.83 CMSDAY
MEAN	0.30	0.14	8.25	2.96	12.82	10.53	6.64	1.40	0.15	0.11	0.10	0.14	3.64 CMS
MAX	0.88	0.32	27.40	14.33	35.74	56.10	22.67	6.48	0.26	0.13	0.36	0.54	56.10 CMS
MIN	0.12	0.10	0.13	0.42	3.14	2.21	1.79	0.29	0.09	0.08	0.05	0.03	0.03 CMS
RUNOFF	0.778	0.386	21.383	7.915	34.340	27.291	17.775	3.641	0.397	0.297	0.235	0.373	114.811 MCM

MOMENTARY PEAK 70.40 CMS, AT 75.66 M (MSL), AT 6.00 HOURS, ON SEP 24, 1980

RUNOFF YIELD 6.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 131.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

PRACHIN BURI RIVER AT BAN SANG, PRACHIN BURI (KGT.22)

LOCATION — LAT. 13°-59'-45" N., LONG. 101°-13'-30" E., ON LEFT BANK INFRONT OF AMPHOE BAN SANG OFFICE, PRACHIN BURI.

DRAINAGE AREA — FLOOD PLAIN.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — -0.818 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +3.032 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

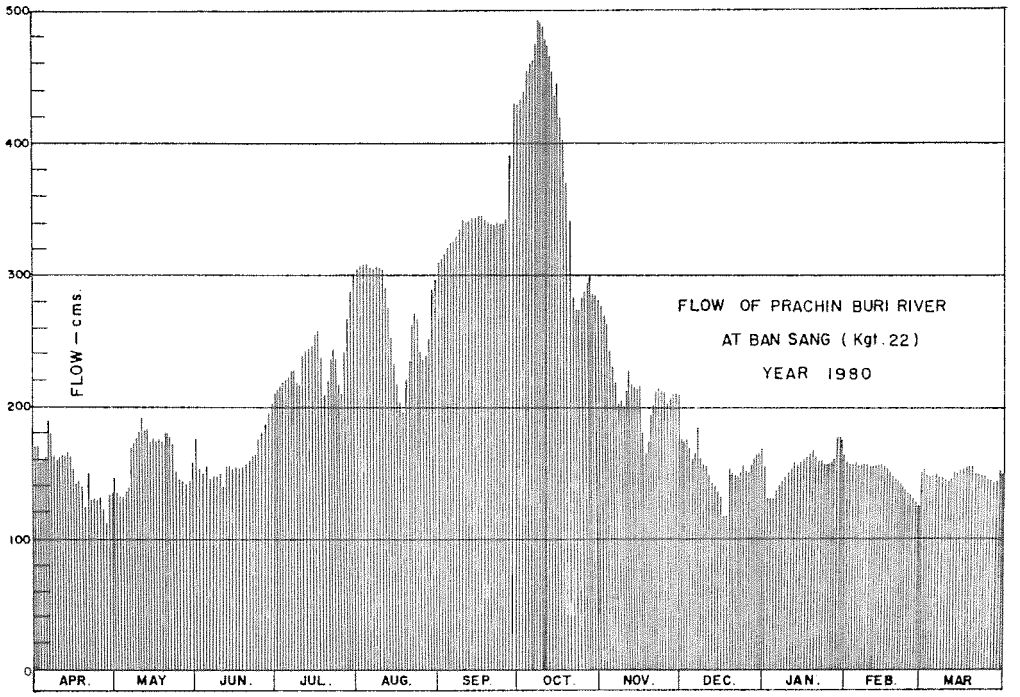
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.48	0.32	0.53	0.76	1.36	1.39	2.02	1.20	0.52	0.48	0.41	0.35	
2	0.49	0.22	0.37	0.79	1.37	1.41	2.06	1.13	0.51	0.22	0.41	0.35	
3	0.40	0.20	0.34	0.80	1.38	1.43	2.09	1.10	0.52	0.21	0.40	0.32	
4	0.42	0.21	0.36	0.81	1.38	1.46	2.15	0.96	0.48	0.21	0.40	0.32	
5	0.44	0.25	0.38	0.83	1.37	1.47	2.17	0.91	0.44	0.21	0.40	0.33	
6	0.63	0.24	0.31	0.84	1.36	1.49	2.20	0.84	0.41	0.26	0.39	0.33	
7	0.40	0.47	0.33	0.88	1.36	1.49	2.28	0.70	0.59	0.28	0.39	0.33	
8	0.44	0.50	0.33	0.88	1.37	1.51	2.35	0.73	0.46	0.30	0.40	0.33	
9	0.41	0.53	0.33	0.81	1.33	1.55	2.34	0.70	0.39	0.33	0.40	0.32	
10	0.44	0.56	0.35	0.81	1.36	1.57	2.30	0.69	0.40	0.34	0.39	0.31	
11	0.45	0.64	0.24	0.93	1.35	1.55	2.27	0.87	0.34	0.36	0.39	0.31	
12	0.44	0.58	0.38	0.96	1.25	1.56	2.23	0.82	0.31	0.38	0.38	0.31	
13	0.46	0.58	0.39	0.98	1.16	1.58	2.18	0.81	0.29	0.40	0.39	0.36	
14	0.44	0.52	0.39	0.99	1.00	1.57	2.06	0.78	0.28	0.38	0.39	0.35	
15	0.36	0.53	0.37	1.01	0.89	1.59	2.10	0.80	0.26	0.41	0.39	0.36	
16	0.29	0.50	0.38	1.05	0.83	1.57	2.00	0.81	0.22	0.42	0.39	0.37	
17	0.31	0.53	0.37	1.07	0.75	1.59	1.90	0.52	0.10	0.43	0.38	0.38	
18	0.28	0.53	0.37	0.93	0.65	1.57	1.78	0.44	0.10	0.44	0.35	0.38	
19	0.15	0.51	0.38	0.81	0.69	1.56	1.62	0.55	0.37	0.46	0.34	0.39	
20	0.16	0.53	0.39	0.77	0.87	1.55	1.38	0.66	0.34	0.47	0.32	0.39	
21	0.34	0.56	0.41	0.88	0.98	1.55	1.25	0.70	0.33	0.42	0.31	0.34	
22	0.20	0.54	0.43	0.94	1.11	1.55	1.17	0.78	0.32	0.41	0.29	0.34	
23	0.21	0.48	0.45	0.98	1.15	1.56	1.16	0.78	0.35	0.41	0.28	0.33	
24	0.21	0.37	0.46	0.91	1.11	1.55	1.23	0.78	0.40	0.39	0.25	0.33	
25	0.20	0.32	0.54	0.81	0.96	1.55	1.26	0.76	0.36	0.40	0.24	0.33	
26	0.22	0.31	0.56	0.74	0.90	1.56	1.29	0.71	0.34	0.40	0.22	0.30	
27	0.09	0.30	0.60	0.96	0.94	1.69	1.32	0.75	0.38	0.41	0.19	0.30	
28	0.04	0.29	0.65	1.13	1.11	1.83	1.26	0.76	0.42	0.42	0.16	0.29	
29	0.22	0.28	0.70	1.21	1.25	1.99	1.24	0.77	0.43	0.51		0.34	
30	0.23	0.39	0.72	1.28	1.29	2.03	1.23	0.76	0.44	0.54		0.32	
31		0.36		1.34	1.34		1.22		0.47	0.52		0.33	
MEAN	0.33	0.42	0.43	0.93	1.14	1.58	1.78	0.79	0.37	0.38	0.34	0.34	
MAX	0.63	0.64	0.72	1.34	1.38	2.03	2.35	1.20	0.59	0.54	0.41	0.39	2.35
MIN	0.04	0.20	0.24	0.74	0.65	1.39	1.16	0.44	0.10	0.21	0.16	0.29	0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.36 M (MSL), AT 15.00 HOURS, ON OCT 8, 1980

ZERO GAGE AT BOTTOM ELEVATION -0.82 M (MSL), RIVER BED -11.66 M (MSL)

LEFT BANK ELEVATION 3.11 M (MSL)

RIGHT BANK ELEVATION 3.04 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	169.0	146.6	176.0	210.0	305.1	310.2	427.0	278.3	174.6	169.0	159.2	150.8	
2	170.4	133.2	153.6	214.5	306.8	313.7	435.0	267.0	173.2	133.2	159.2	150.8	
3	157.8	130.6	149.4	216.0	308.5	317.2	441.0	262.2	174.6	131.9	157.8	146.6	
4	160.6	131.9	152.2	217.5	308.5	322.5	453.0	240.0	169.0	131.9	157.8	146.6	
5	163.4	137.1	155.0	220.5	306.8	324.2	457.0	232.5	163.4	131.9	157.8	148.0	
6	190.5	135.8	145.2	222.0	305.1	327.9	463.0	222.0	159.2	138.4	156.4	148.0	
7	157.8	167.6	148.0	228.0	305.1	327.9	479.0	201.0	184.5	141.0	156.4	148.0	
8	163.4	171.8	148.0	228.0	306.8	331.5	493.0	205.5	166.2	143.8	157.8	148.0	
9	159.2	176.0	148.0	217.5	300.0	339.0	491.0	201.0	156.4	148.0	157.8	146.6	
10	163.4	180.2	150.8	217.5	305.1	342.6	483.0	199.5	157.8	149.4	156.4	145.2	
11	164.8	192.0	135.8	235.5	303.4	339.0	477.0	226.5	149.4	152.2	156.4	145.2	
12	163.4	183.0	155.0	240.0	286.5	340.8	469.0	219.0	145.2	155.0	155.0	145.2	
13	166.2	183.0	156.4	243.0	271.8	344.5	459.0	217.5	142.4	157.8	156.4	152.2	
14	163.4	174.6	156.4	244.6	246.2	342.6	435.0	213.0	141.0	155.0	156.4	150.8	
15	152.2	176.0	153.6	247.8	229.5	346.3	443.0	216.0	138.4	159.2	156.4	152.2	
16	142.4	171.8	155.0	254.2	220.5	342.6	423.0	217.5	133.2	160.6	156.4	153.6	
17	145.2	176.0	153.6	257.4	208.5	346.3	403.8	174.6	117.6	162.0	155.0	155.0	
18	141.0	176.0	153.6	235.5	193.5	342.6	381.5	163.4	117.6	163.4	150.8	155.0	
19	124.1	173.2	155.0	217.5	199.5	340.8	351.9	178.8	153.6	166.2	149.4	156.4	
20	125.4	176.0	156.4	211.5	226.5	339.0	308.5	195.0	149.4	167.6	146.6	156.4	
21	149.4	180.2	159.2	228.0	243.0	339.0	286.5	201.0	148.0	160.6	145.2	149.4	
22	130.6	177.4	162.0	237.0	263.8	339.0	273.4	213.0	146.6	159.2	142.4	149.4	
23	131.9	169.0	164.8	243.0	270.2	340.8	271.8	213.0	150.8	159.2	141.0	148.0	
24	131.9	153.6	166.2	232.5	263.8	339.0	283.2	213.0	157.8	156.4	137.1	148.0	
25	130.6	146.6	177.4	217.5	240.0	339.0	288.2	210.0	152.2	157.8	135.8	148.0	
26	133.2	145.2	180.2	207.0	231.0	340.8	293.2	202.5	149.4	157.8	133.2	143.8	
27	116.3	143.8	186.0	240.0	237.0	364.8	298.3	208.5	155.0	159.2	129.3	143.8	
28	110.0	142.4	193.5	267.0	263.8	390.7	288.2	210.0	160.6	160.6	125.4	142.4	
29	133.2	141.0	201.0	279.9	286.5	421.0	284.9	211.5	162.0	173.2		149.4	
30	134.5	156.4	204.0	291.5	293.2	429.0	283.2	210.0	163.4	177.4		146.6	
31		152.2		301.7	301.7		281.6		167.6	174.6		148.0	
TOTAL	4445.2	5000.2	4851.3	7323.6	8337.7	10324.3	11906.2	6422.8	4780.1	4813.5	4204.8	4617.4	77027.0 CMSDAY
MEAN	148.2	161.3	161.7	236.2	269.0	344.1	384.1	214.1	154.2	155.3	150.2	148.9	211.0 CMS
MAX	190.5	192.0	204.0	301.7	308.5	429.0	493.0	278.3	184.5	177.4	159.2	156.4	493.0 CMS
MIN	110.0	130.6	135.8	207.0	193.5	310.2	271.8	163.4	117.6	131.9	125.4	142.4	110.0 CMS
RUNOFF	384.06	432.02	419.15	632.76	720.38	892.02	1028.69	554.93	413.00	415.89	363.29	398.94	6655.13 MCM

MOMENTARY PEAK 495.00 CMS, AT 2.36 M (MSL), AT 15.00 HOURS, ON OCT 8, 1980

RUNOFF YIELD LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

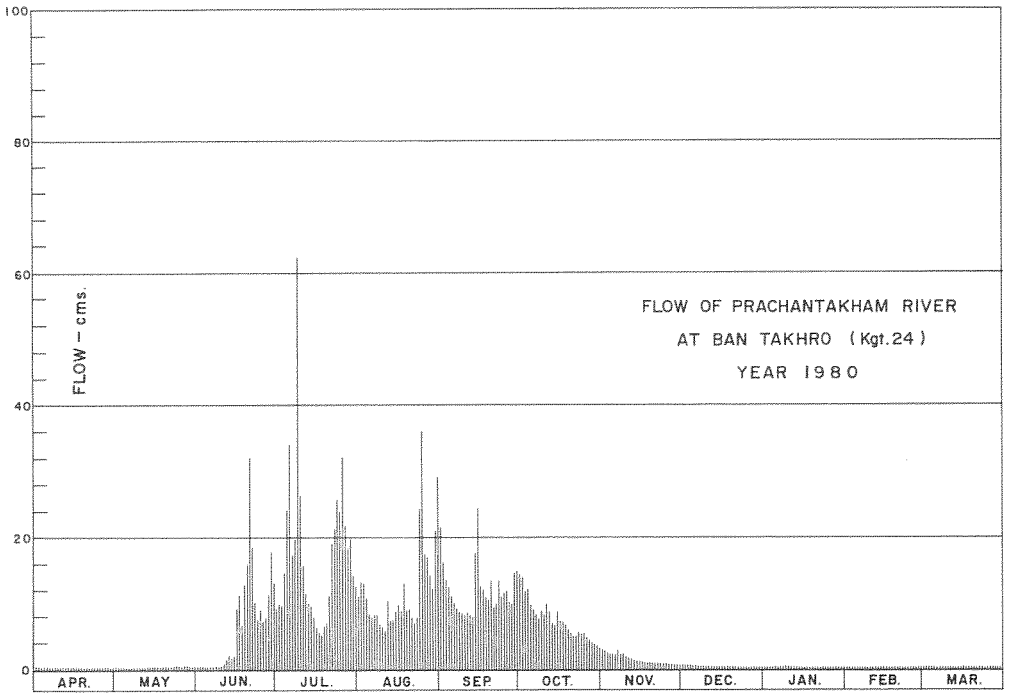
PRACHANTAKHAM RIVER AT BAN TAKHRO, PRACHIN BURI (KGT.24)

LOCATION	LAT. 14°-10'-34" N., LONG. 101°-35'-30" E., ON RIGHT BANK AT BAN TAKHRO, AMPHOE PRACHANTAKHAM, PRACHIN BURI.
DRAINAGE AREA	121 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE OFFICE OF KGT.24 STATION.
ELEVATION	+8.365 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 110 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY PRACHANTAKHAM DAM.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.53	0.53	0.71	2.16	2.33	3.06	2.58	1.49	0.97	0.66	0.56	0.59	
2	0.53	0.53	0.69	2.24	2.48	2.73	2.52	1.45	0.91	0.66	0.56	0.60	
3	0.53	0.53	0.67	2.21	2.47	2.54	2.38	1.41	0.88	0.65	0.56	0.60	
4	0.54	0.53	0.67	2.63	2.28	2.45	2.41	1.39	0.87	0.65	0.56	0.60	
5	0.55	0.53	0.65	3.32	2.10	2.33	2.23	1.37	0.85	0.64	0.56	0.60	
6	0.56	0.52	0.64	3.77	2.05	2.23	2.15	1.33	0.84	0.64	0.56	0.60	
7	0.57	0.51	0.66	2.78	2.08	2.18	2.09	1.48	0.83	0.64	0.57	0.60	
8	0.55	0.51	0.72	2.91	2.08	2.10	2.01	1.36	0.82	0.65	0.57	0.60	
9	0.55	0.51	0.70	4.91	1.94	2.10	2.12	1.36	0.81	0.65	0.58	0.61	
10	0.55	0.51	0.75	2.92	1.89	2.07	2.09	1.28	0.77	0.64	0.58	0.62	
11	0.55	0.54	1.02	2.58	1.82	2.09	2.22	1.25	0.76	0.64	0.58	0.62	
12	0.55	0.53	1.17	2.35	2.26	2.07	2.12	1.22	0.73	0.64	0.58	0.61	
13	0.54	0.52	1.29	2.23	2.03	2.06	1.97	1.19	0.72	0.64	0.57	0.60	
14	0.54	0.52	1.23	2.21	2.02	2.56	1.93	1.17	0.71	0.62	0.57	0.60	
15	0.54	0.56	1.27	2.06	2.14	3.25	2.12	1.15	0.70	0.62	0.56	0.60	
16	0.57	0.59	2.16	1.90	2.21	2.43	1.99	1.13	0.70	0.62	0.55	0.60	
17	0.58	0.66	2.32	1.83	2.13	2.40	1.98	1.11	0.69	0.61	0.55	0.60	
18	0.58	0.60	1.91	1.76	2.47	2.30	1.94	1.10	0.69	0.60	0.55	0.61	
19	0.57	0.60	2.44	1.91	2.15	2.28	1.86	1.09	0.68	0.60	0.55	0.61	
20	0.57	0.59	2.79	1.96	2.15	2.50	1.81	1.08	0.67	0.60	0.55	0.61	
21	0.57	0.61	3.67	2.37	2.05	2.17	1.75	1.07	0.67	0.59	0.54	0.60	
22	0.56	0.66	2.56	2.88	1.95	2.22	1.77	1.05	0.67	0.59	0.54	0.60	
23	0.54	0.68	2.17	3.06	2.04	2.49	1.82	1.04	0.65	0.58	0.54	0.58	
24	0.53	0.85	2.01	3.33	3.34	2.31	1.79	1.03	0.65	0.58	0.54	0.57	
25	0.53	0.80	2.13	3.21	3.87	2.35	1.81	1.02	0.65	0.58	0.53	0.57	
26	0.53	0.77	1.98	3.68	2.79	2.39	1.75	1.00	0.66	0.58	0.54	0.56	
27	0.53	0.84	2.03	3.05	2.76	2.25	1.68	0.99	0.69	0.58	0.56	0.57	
28	0.54	0.82	2.34	2.85	2.54	2.24	1.63	0.97	0.68	0.58	0.58	0.65	
29	0.54	0.78	2.82	2.95	2.40	2.59	1.58	0.95	0.67	0.57		0.66	
30	0.53	0.75	2.51	2.58	2.83	2.62	1.55	0.93	0.67	0.56		0.65	
31		0.73		2.44	3.51		1.51		0.67	0.56		0.65	
MEAN	0.55	0.62	1.62	2.68	2.36	2.38	1.97	1.18	0.74	0.61	0.56	0.60	
MAX	0.58	0.85	3.67	4.91	3.87	3.25	2.58	1.49	0.97	0.66	0.58	0.66	4.91
MIN	0.53	0.51	0.64	1.76	1.82	2.06	1.51	0.93	0.65	0.56	0.53	0.56	0.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.13 M (A.D), AT 7.00 HOURS, ON JUL 9, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.13 M (A.D)
LEFT BANK ELEVATION 7.36 M (A.D)
RIGHT BANK ELEVATION 6.52 M (A.D), DRAINAGE AREA 121 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.13	0.31	9.16	11.19	21.46	14.44	3.04	0.74	0.26	0.16	0.19	
2	0.13	0.13	0.29	10.08	13.14	16.52	13.66	2.80	0.62	0.26	0.16	0.20	
3	0.13	0.13	0.27	9.72	13.01	13.92	11.84	2.56	0.56	0.25	0.16	0.20	
4	0.14	0.13	0.27	15.12	10.56	12.75	12.23	2.45	0.54	0.25	0.16	0.20	
5	0.15	0.13	0.25	25.64	8.50	11.19	9.96	2.35	0.50	0.24	0.16	0.20	
6	0.16	0.12	0.24	33.97	7.95	9.96	9.05	2.15	0.48	0.24	0.16	0.20	
7	0.17	0.11	0.26	17.22	8.28	9.38	8.39	2.98	0.46	0.24	0.17	0.20	
8	0.15	0.11	0.32	19.15	8.28	8.50	7.51	2.30	0.44	0.25	0.17	0.20	
9	0.15	0.11	0.30	62.10	6.80	8.50	8.72	2.30	0.42	0.25	0.18	0.21	
10	0.15	0.11	0.35	19.30	6.31	8.17	8.39	1.90	0.37	0.24	0.18	0.22	
11	0.15	0.14	0.86	14.44	5.68	8.39	9.84	1.75	0.36	0.24	0.18	0.22	
12	0.15	0.13	1.38	11.45	10.32	8.17	8.72	1.60	0.33	0.24	0.18	0.21	
13	0.14	0.12	1.95	9.96	7.73	8.06	7.10	1.46	0.32	0.24	0.17	0.20	
14	0.14	0.12	1.65	9.72	7.62	14.18	6.70	1.38	0.31	0.22	0.17	0.20	
15	0.14	0.16	1.85	8.06	8.94	24.50	8.72	1.30	0.30	0.22	0.16	0.20	
16	0.17	0.19	9.16	6.40	9.72	12.49	7.30	1.22	0.30	0.22	0.15	0.20	
17	0.18	0.26	11.06	5.77	8.83	12.10	7.20	1.14	0.29	0.21	0.15	0.20	
18	0.18	0.20	6.50	5.14	13.01	10.80	6.80	1.10	0.29	0.20	0.15	0.21	
19	0.17	0.20	12.62	6.50	9.05	10.56	6.04	1.07	0.28	0.20	0.15	0.21	
20	0.17	0.19	17.36	7.00	9.05	13.40	5.59	1.04	0.27	0.20	0.15	0.21	
21	0.17	0.21	31.93	11.71	7.95	9.27	5.05	1.01	0.27	0.19	0.14	0.20	
22	0.16	0.26	14.18	18.70	6.90	9.84	5.23	0.95	0.27	0.19	0.14	0.20	
23	0.14	0.28	9.27	21.46	7.84	13.27	5.68	0.92	0.25	0.18	0.14	0.18	
24	0.13	0.50	7.51	25.81	25.98	10.93	5.41	0.89	0.25	0.18	0.14	0.17	
25	0.13	0.40	8.83	23.86	36.07	11.45	5.59	0.86	0.25	0.18	0.13	0.17	
26	0.13	0.37	7.20	32.12	17.36	11.97	5.05	0.80	0.26	0.18	0.14	0.16	
27	0.13	0.48	7.73	21.30	16.94	10.20	4.44	0.78	0.29	0.18	0.16	0.17	
28	0.14	0.44	11.32	18.25	13.92	10.08	4.04	0.74	0.28	0.18	0.18	0.25	
29	0.14	0.38	17.80	19.75	12.10	14.57	3.66	0.70	0.27	0.17		0.26	
30	0.13	0.35	13.53	14.44	17.95	14.98	3.45	0.66	0.27	0.16		0.25	
31		0.33		12.62	28.98		3.17		0.27	0.16		0.25	
TOTAL	4.85	6.92	196.55	525.92	375.96	359.56	228.97	46.20	11.11	6.62	4.44	6.34	1773.04 CMSDAY
MEAN	0.15	0.22	6.55	16.97	12.13	11.99	7.39	1.54	0.36	0.21	0.16	0.20	4.86 CMS
MAX	0.18	0.50	31.93	62.10	36.07	24.50	14.44	3.04	0.74	0.26	0.18	0.26	62.10 CMS
MIN	0.13	0.11	0.24	5.14	5.68	8.06	3.17	0.66	0.25	0.16	0.13	0.16	0.11 CMS
RUNOFF	0.384	0.598	16.982	45.439	32.483	31.066	19.783	3.992	0.960	0.572	0.384	0.548	153.190 MCM

MOMENTARY PEAK 166.46 CMS, AT 7:13 H (A.D), AT 7.00 HOURS, ON JUL 9, 1980
RUNOFF YIELD 40.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1375.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PRACHIN BURI RIVER BASIN

KHLONG RABOM AT BAN CHAM PA NGAM, CHACHOENGSAO (KGT.25)

LOCATION — LAT. 13°-41'-09" N., LONG. 101°-36'-32" E., ON LEFT BANK ABOUT 200 METERS FROM THE GAGE OBSERVER'S HOUSE AT BAN CHAM PA NGAM, AMPHOE SANAM CHAI KHET, CHACHOENGSAO.

DRAINAGE AREA — 243 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — B.M.1 ON LEFT BANK NEAR THE GAGE SITE, B.M.2 INFRONT OF THE OBSERVER'S HOUSE.

ELEVATION — B.M.1=+4.877 M. (A.D.), B.M.2=+8.490 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

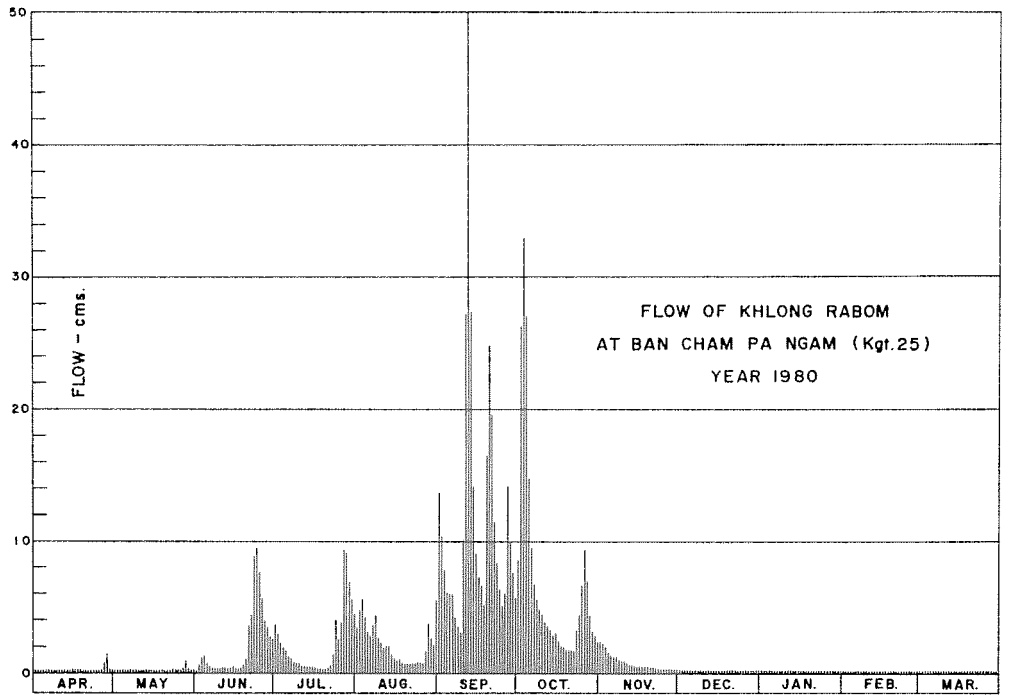
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.78 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 71 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.48	0.48	1.89	1.84	3.59	2.83	1.50	0.54	0.42	0.39	0.38	
2	0.24	0.46	0.46	1.71	2.16	3.15	4.62	1.48	0.53	0.42	0.39	0.38	
3	0.24	0.45	1.10	1.48	2.32	2.69	4.97	1.36	0.52	0.41	0.39	0.38	
4	0.23	0.44	1.18	1.37	2.04	2.43	4.43	1.25	0.51	0.41	0.39	0.38	
5	0.22	0.44	0.91	1.27	1.75	2.39	3.66	1.19	0.50	0.41	0.39	0.38	
6	0.21	0.43	0.75	1.13	1.65	2.38	3.01	1.13	0.49	0.41	0.39	0.38	
7	0.21	0.43	0.66	1.08	1.89	2.05	2.53	1.14	0.49	0.41	0.39	0.38	
8	0.20	0.43	0.65	0.98	2.06	1.94	2.32	1.06	0.49	0.41	0.39	0.38	
9	0.20	0.42	0.64	0.89	1.63	1.73	2.14	1.01	0.48	0.41	0.39	0.38	
10	0.19	0.42	0.63	0.88	1.52	1.99	2.05	0.97	0.48	0.41	0.39	0.38	
11	0.18	0.41	0.61	0.78	1.36	4.29	1.94	0.91	0.48	0.42	0.39	0.38	
12	0.18	0.40	0.64	0.72	1.41	5.52	1.85	0.85	0.47	0.41	0.39	0.38	
13	0.17	0.54	0.61	0.70	1.42	4.69	1.79	0.82	0.47	0.40	0.39	0.38	
14	0.16	0.49	0.62	0.68	1.20	3.63	1.69	0.78	0.46	0.40	0.39	0.38	
15	0.16	0.48	0.70	0.69	1.11	2.94	1.73	0.76	0.46	0.40	0.39	0.37	
16	0.16	0.47	0.67	0.67	1.02	2.65	1.55	0.74	0.46	0.41	0.39	0.37	
17	0.17	0.45	0.64	0.64	1.04	2.53	1.41	0.73	0.46	0.43	0.39	0.37	
18	0.16	0.46	0.60	0.62	0.92	2.25	1.38	0.72	0.45	0.44	0.39	0.36	
19	0.16	0.46	0.79	0.60	0.88	3.87	1.32	0.72	0.45	0.42	0.39	0.36	
20	0.15	0.46	1.03	0.60	0.86	4.53	1.30	0.69	0.45	0.41	0.39	0.36	
21	0.15	0.46	1.87	0.67	0.86	4.07	1.32	0.68	0.45	0.41	0.39	0.35	
22	0.14	0.46	2.06	0.80	0.82	3.27	1.28	0.65	0.45	0.41	0.39	0.35	
23	0.13	0.49	2.90	1.19	0.90	2.82	1.78	0.64	0.44	0.40	0.39	0.35	
24	0.12	0.50	2.99	1.99	0.90	2.46	2.09	0.63	0.44	0.40	0.39	0.34	
25	0.11	0.46	2.71	1.60	0.92	2.21	2.51	0.61	0.44	0.40	0.38	0.34	
26	0.10	0.47	2.32	1.93	0.89	2.46	2.98	0.59	0.44	0.40	0.38	0.34	
27	0.82	0.58	1.96	2.99	1.30	3.62	2.60	0.58	0.43	0.40	0.38	0.34	
28	1.23	0.85	1.82	2.95	1.89	3.07	2.05	0.57	0.43	0.40	0.38	0.36	
29	0.57	0.61	1.65	2.59	1.62	2.67	1.76	0.54	0.43	0.40		0.36	
30	0.50	0.50	1.62	2.38	1.45	2.35	1.67	0.55	0.42	0.39		0.36	
31		0.49		2.14	2.04		1.52		0.42	0.39		0.36	
MEAN	0.26	0.48	1.21	1.31	1.41	3.01	2.26	0.86	0.47	0.41	0.39	0.37	
MAX	1.23	0.85	2.99	2.99	2.32	5.52	4.97	1.50	0.54	0.44	0.39	0.38	5.52
MIN	0.10	0.40	0.46	0.60	0.82	1.73	1.28	0.54	0.42	0.39	0.38	0.34	0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.71 M (A.D), AT 6.00 HOURS, ON SEP 12, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.10 M (A.D)
LEFT BANK ELEVATION 5.35 M (A.D)
RIGHT BANK ELEVATION 4.77 M (A.D), DRAINAGE AREA 243 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.18	0.18	3.66	3.46	13.72	8.38	2.30	0.24	0.12	0.09	0.08	
2	0.00	0.16	0.16	2.94	4.80	10.35	26.14	2.24	0.23	0.12	0.09	0.08	
3	0.00	0.15	1.15	2.24	5.60	7.54	32.84	1.88	0.22	0.11	0.09	0.08	
4	0.00	0.14	1.35	1.91	4.26	6.15	23.32	1.55	0.21	0.11	0.09	0.08	
5	0.00	0.14	0.77	1.61	3.10	5.95	14.34	1.37	0.20	0.11	0.09	0.08	
6	0.00	0.13	0.52	1.22	2.75	5.90	9.46	1.22	0.19	0.11	0.09	0.08	
7	0.00	0.13	0.39	1.11	3.66	4.30	6.65	1.25	0.19	0.11	0.09	0.08	
8	0.00	0.13	0.37	0.91	4.34	3.86	5.60	1.07	0.19	0.11	0.09	0.08	
9	0.00	0.12	0.36	0.73	2.69	3.02	4.70	0.97	0.18	0.11	0.09	0.08	
10	0.00	0.12	0.35	0.72	2.36	4.06	4.30	0.89	0.18	0.11	0.09	0.08	
11	0.00	0.11	0.31	0.57	1.88	21.37	3.86	0.77	0.18	0.12	0.09	0.08	
12	0.00	0.10	0.36	0.48	2.03	51.72	3.50	0.67	0.17	0.11	0.09	0.08	
13	0.00	0.24	0.31	0.45	2.06	27.33	3.26	0.63	0.17	0.10	0.09	0.08	
14	0.00	0.19	0.33	0.42	1.40	14.07	2.87	0.57	0.16	0.10	0.09	0.08	
15	0.00	0.18	0.45	0.43	1.17	9.04	3.02	0.54	0.16	0.10	0.09	0.07	
16	0.00	0.17	0.40	0.40	0.99	7.30	2.45	0.51	0.16	0.11	0.09	0.07	
17	0.00	0.15	0.36	0.36	1.03	6.65	2.03	0.49	0.16	0.13	0.09	0.07	
18	0.00	0.16	0.30	0.33	0.79	5.25	1.94	0.48	0.15	0.14	0.09	0.06	
19	0.00	0.16	0.58	0.30	0.72	16.40	1.76	0.48	0.15	0.12	0.09	0.06	
20	0.00	0.16	1.01	0.30	0.69	24.75	1.70	0.43	0.15	0.11	0.09	0.06	
21	0.00	0.16	3.58	0.40	0.69	18.64	1.76	0.42	0.15	0.11	0.09	0.05	
22	0.00	0.16	4.34	0.60	0.63	11.19	1.64	0.37	0.15	0.11	0.09	0.05	
23	0.00	0.19	8.80	1.37	0.75	8.32	3.22	0.36	0.14	0.10	0.09	0.05	
24	0.00	0.20	9.34	4.06	0.75	6.30	4.46	0.35	0.14	0.10	0.09	0.04	
25	0.00	0.16	7.66	2.60	0.79	5.05	6.55	0.31	0.14	0.10	0.08	0.04	
26	0.00	0.17	5.60	3.82	0.73	6.30	9.28	0.29	0.14	0.10	0.08	0.04	
27	0.63	0.28	3.94	9.34	1.70	13.98	7.00	0.28	0.13	0.10	0.08	0.04	
28	1.49	0.67	3.38	9.10	3.66	9.82	4.30	0.27	0.13	0.10	0.08	0.06	
29	0.27	0.31	2.75	6.95	2.66	7.42	3.14	0.24	0.13	0.10		0.06	
30	0.20	0.20	2.66	5.90	2.15	5.75	2.81	0.25	0.12	0.09		0.06	
31		0.19		4.70	4.26		2.36		0.12	0.09		0.06	
TOTAL	2.59	5.71	62.06	69.93	68.55	341.50	208.64	23.45	5.13	3.36	2.48	2.06	795.46 CMSDAY
MEAN	0.09	0.18	2.07	2.26	2.21	11.38	6.73	0.78	0.17	0.11	0.09	0.07	2.18 CMS
MAX	1.49	0.67	9.34	9.34	5.60	51.72	32.84	2.30	0.24	0.14	0.09	0.08	51.72 CMS
MIN	0.00	0.10	0.16	0.30	0.63	3.02	1.64	0.24	0.12	0.09	0.08	0.04	0.00 CMS
RUNOFF	0.224	0.493	5.362	6.042	5.923	29.506	18.026	2.026	0.443	0.290	0.214	0.179	68.728 MCM

MOMENTARY PEAK 68.00 CMS, AT 5.71 M (A.D), AT 6.00 HOURS, ON SEP 12, 1980

RUNOFF YIELD 8.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 279.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

EAST COAST-GULF BASIN

KHLONG NONG PLA LAI AT BAN NONG MAPRING, RAYONG (2.4)

LOCATION — LAT. 12°-54'-40" N., LONG. 101°-17'-37" E., ON LEFT BANK AT BAN NONG MAPRING, AMPHOE BAN KHAI, RAYONG.

DRAINAGE AREA — 429 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +5.270 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +3.60 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 322 DISCHARGE MEASUREMENTS MADE DURING 1972-1974.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

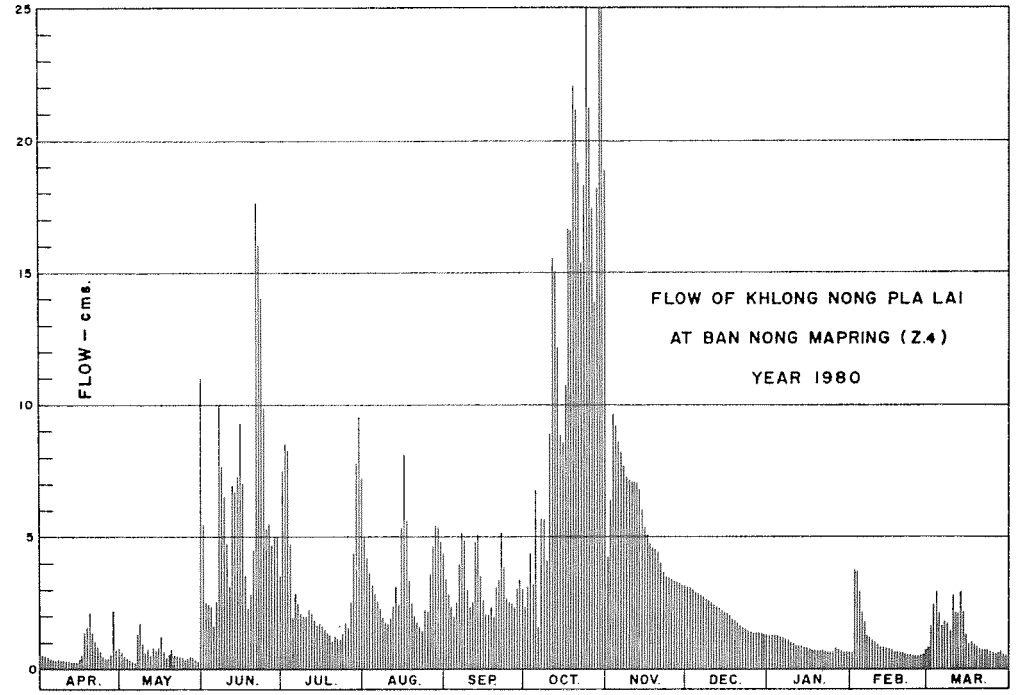
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.29	0.96	1.82	1.29	0.98	0.76	1.21	0.98	0.50	0.31	0.36	
2	0.24	0.22	0.81	2.00	1.17	0.89	1.06	1.60	0.97	0.50	1.12	0.66	
3	0.22	0.21	0.81	1.96	1.08	0.78	1.23	2.19	0.96	0.50	1.11	0.83	
4	0.20	0.18	0.79	1.16	1.00	0.70	1.00	2.10	0.94	0.49	0.94	0.93	
5	0.18	0.15	0.60	0.69	0.92	0.86	1.70	2.02	0.92	0.49	0.73	0.64	
6	0.17	0.14	0.83	0.88	0.85	1.17	0.57	1.94	0.90	0.48	0.66	0.57	
7	0.17	0.53	2.24	0.80	0.78	1.39	1.50	1.86	0.88	0.46	0.50	0.63	
8	0.16	0.62	1.78	0.72	0.68	1.30	1.50	1.78	0.87	0.44	0.49	0.63	
9	0.15	0.36	1.59	0.70	0.64	0.87	1.18	1.76	0.86	0.42	0.45	0.54	
10	0.15	0.29	1.18	0.70	0.60	0.76	1.98	1.76	0.84	0.40	0.43	0.90	
11	0.16	0.33	0.96	0.76	0.69	1.01	2.87	1.75	0.82	0.39	0.39	0.74	
12	0.14	0.26	1.73	0.73	0.81	1.32	2.82	1.75	0.80	0.39	0.38	0.74	
13	0.14	0.36	1.68	0.66	0.98	1.38	2.54	1.69	0.78	0.37	0.37	0.93	
14	0.14	0.32	1.78	0.61	0.80	0.98	2.07	1.55	0.76	0.36	0.36	0.68	
15	0.16	0.37	2.14	0.63	1.60	0.83	2.02	1.42	0.75	0.36	0.35	0.48	
16	0.26	0.48	1.69	0.60	1.94	0.72	2.41	1.38	0.73	0.34	0.33	0.40	
17	0.52	0.32	1.02	0.56	1.40	0.71	2.96	1.32	0.71	0.34	0.32	0.44	
18	0.60	0.23	0.78	0.52	0.96	0.79	2.91	1.28	0.67	0.33	0.31	0.39	
19	0.73	0.20	0.93	0.50	0.80	0.94	3.34	1.27	0.65	0.32	0.31	0.36	
20	0.52	0.33	1.28	0.40	0.70	0.96	3.28	1.25	0.63	0.32	0.30	0.34	
21	0.42	0.25	3.04	0.48	0.64	1.04	3.12	1.18	0.61	0.33	0.29	0.32	
22	0.30	0.24	2.86	0.47	0.57	1.39	2.86	1.10	0.58	0.32	0.28	0.32	
23	0.25	0.23	2.63	0.46	0.55	1.08	3.10	1.06	0.56	0.31	0.28	0.32	
24	0.20	0.21	1.94	0.45	0.76	0.86	3.65	1.05	0.55	0.31	0.27	0.31	
25	0.20	0.18	1.42	0.63	0.74	0.84	3.19	1.04	0.54	0.32	0.26	0.29	
26	0.20	0.18	1.46	0.57	1.10	0.82	2.88	1.03	0.53	0.37	0.26	0.27	
27	0.27	0.23	1.29	0.85	1.36	0.79	2.73	1.02	0.53	0.33	0.25	0.29	
28	0.75	0.23	1.40	1.36	1.45	1.00	2.99	1.01	0.52	0.32	0.26	0.31	
29	0.32	0.18	1.40	2.06	1.43	1.04	3.63	1.00	0.52	0.31		0.27	
30	0.36	0.16	1.06	2.18	1.30	0.94	3.40	0.99	0.51	0.31		0.25	
31		2.39		1.63	1.22		3.10		0.51	0.31		0.24	
MEAN	0.28	0.34	1.47	0.92	0.99	0.97	2.40	1.45	0.72	0.38	0.44	0.50	
MAX	0.75	2.39	3.04	2.18	1.94	1.39	3.65	2.19	0.98	0.50	1.12	0.93	3.65
MIN	0.14	0.14	0.60	0.40	0.55	0.70	0.57	0.99	0.51	0.31	0.25	0.24	0.14

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.78 M (A.D), AT 6.00 HOURS, ON OCT 24, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — M (A.D)

LEFT BANK ELEVATION — 3.60 M (A.D)

RIGHT BANK ELEVATION — 5.18 M (A.D), DRAINAGE AREA — 429 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.62	3.04	7.46	4.65	3.12	2.24	4.25	3.12	1.30	0.68	0.83	
2	0.50	0.45	2.44	8.45	4.05	2.76	3.50	6.25	3.08	1.30	3.80	1.86	
3	0.45	0.42	2.44	8.23	3.60	2.32	4.35	9.63	3.04	1.30	3.75	2.52	
4	0.40	0.36	2.36	4.00	3.20	2.00	3.20	9.05	2.96	1.26	2.96	2.92	
5	0.36	0.30	1.65	1.96	2.88	2.64	6.80	8.57	2.88	1.26	2.12	1.79	
6	0.34	0.28	2.52	2.72	2.60	4.05	1.54	8.12	2.80	1.23	1.86	1.54	
7	0.34	1.40	9.96	2.40	2.32	5.15	5.70	7.68	2.72	1.16	1.30	1.75	
8	0.32	1.72	7.24	2.08	1.93	4.70	5.70	7.24	2.68	1.09	1.26	1.75	
9	0.30	0.83	6.19	2.00	1.79	2.68	4.10	7.13	2.64	1.02	1.12	1.44	
10	0.30	0.62	4.10	2.00	1.65	2.24	8.34	7.13	2.56	0.95	1.05	2.80	
11	0.32	0.74	3.04	2.24	1.96	3.25	15.54	7.07	2.48	0.92	0.92	2.16	
12	0.28	0.55	6.96	2.12	2.44	4.80	14.94	7.07	2.40	0.92	0.89	2.16	
13	0.28	0.83	6.69	1.86	3.12	5.10	12.12	6.74	2.32	0.86	0.86	2.92	
14	0.28	0.71	7.24	1.68	2.40	3.12	8.87	5.97	2.24	0.83	0.83	1.93	
15	0.32	0.86	9.31	1.75	6.25	2.52	8.57	5.30	2.20	0.83	0.80	1.23	
16	0.55	1.23	6.74	1.65	8.12	2.08	11.12	5.10	2.12	0.77	0.74	0.95	
17	1.37	0.71	3.30	1.51	5.20	2.04	16.68	4.80	2.04	0.77	0.71	1.09	
18	1.65	0.47	2.32	1.37	3.04	2.36	16.03	4.60	1.89	0.74	0.68	0.92	
19	2.12	0.40	2.92	1.30	2.40	2.96	22.04	4.55	1.82	0.71	0.68	0.83	
20	1.37	0.74	4.60	0.95	2.00	3.04	21.10	4.45	1.75	0.71	0.65	0.77	
21	1.02	0.52	17.72	1.23	1.79	3.40	18.78	4.10	1.68	0.74	0.62	0.71	
22	0.65	0.50	15.42	1.19	1.54	5.15	15.42	3.70	1.58	0.71	0.60	0.71	
23	0.52	0.47	12.90	1.16	1.47	3.60	18.50	3.50	1.51	0.68	0.60	0.71	
24	0.40	0.42	8.12	1.12	2.24	2.64	27.25	3.45	1.47	0.68	0.57	0.68	
25	0.40	0.36	5.30	1.75	2.16	2.56	19.76	3.40	1.44	0.71	0.55	0.62	
26	0.40	0.36	5.50	1.54	3.70	2.48	15.66	3.35	1.40	0.86	0.55	0.57	
27	0.57	0.47	4.65	2.60	5.00	2.36	13.93	3.30	1.40	0.74	0.52	0.62	
28	2.20	0.47	5.20	5.00	5.45	3.20	17.07	3.25	1.37	0.71	0.55	0.68	
29	0.71	0.36	5.20	3.81	5.35	3.40	26.91	3.20	1.37	0.68		0.57	
30	0.83	0.32	3.50	9.57	4.70	2.96	23.00	3.16	1.33	0.68		0.52	
31		10.98		6.41	4.30		18.50		1.33	0.68		0.50	
TOTAL	20.07	29.47	178.57	98.11	103.30	94.68	407.26	165.11	65.62	27.80	32.22	41.05	1263.26 CMSDAY
MEAN	0.67	0.95	5.95	3.16	3.33	3.16	13.14	5.50	2.12	0.90	1.15	1.32	3.46 CMS
MAX	2.20	10.98	17.72	9.57	8.12	5.15	27.25	9.63	3.12	1.30	3.80	2.92	27.25 CMS
MIN	0.28	0.28	1.65	0.95	1.47	2.00	1.54	3.16	1.33	0.68	0.52	0.50	0.28 CMS
RUNOFF	1.734	2.546	15.428	8.477	8.925	8.180	35.187	14.265	5.670	2.402	2.784	3.547	109.145 MCM

MOMENTARY PEAK 29.54 CMS, AT 3.78 M (A.D), AT 6.00 HOURS, ON OCT 24, 1980

RUNOFF YIELD 8.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 68.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

EAST COAST-GULF BASIN

KHLONG PRASAE AT BAN YANG NGAM, RAYONG (Z.5)

LOCATION — LAT. 12°-53'-03" N., LONG. 101°-35'-58" E., ON LEFT BANK AT BAN YANG NGAM, AMPHOE KLAENG, RAYONG.

DRAINAGE AREA — 1,164 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF Z.5 STATION OFFICE.

ELEVATION — +7.595 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.84 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 104 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

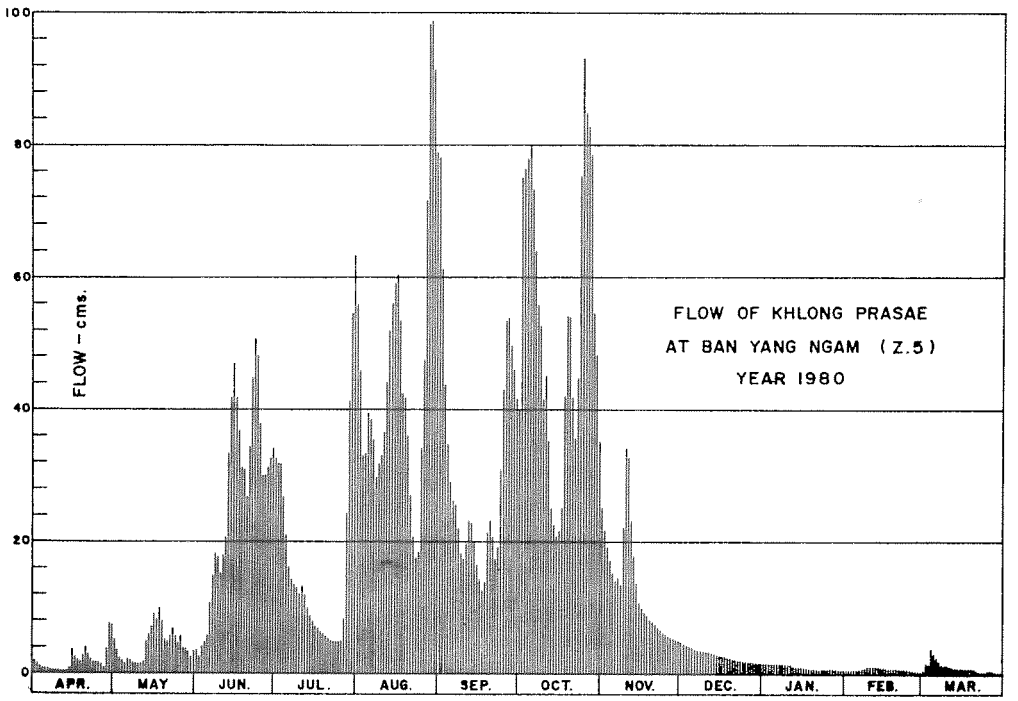
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	1.51	1.27	4.09	5.34	5.83	5.51	3.61	1.47	0.95	0.79	0.78	
2	0.90	1.21	1.09	4.04	4.65	5.30	6.06	3.30	1.44	0.95	0.79	0.96	
3	0.83	1.07	1.40	4.02	4.11	4.72	6.10	3.11	1.40	0.94	0.79	0.97	
4	0.80	0.99	1.53	3.71	4.15	4.26	6.15	2.90	1.38	0.94	0.79	1.30	
5	0.78	0.94	1.67	3.11	4.51	3.86	6.21	2.77	1.34	0.93	0.80	1.20	
6	0.78	1.01	2.32	2.84	4.42	3.67	5.99	2.65	1.31	0.93	0.81	1.04	
7	0.77	1.01	2.61	2.66	4.14	3.62	5.72	2.70	1.27	0.93	0.83	0.97	
8	0.74	0.93	3.03	2.60	3.91	3.36	5.31	2.60	1.26	0.91	0.84	0.93	
9	0.74	0.95	3.00	2.52	4.02	3.01	4.70	3.19	1.25	0.91	0.86	0.91	
10	0.73	0.93	2.73	2.44	4.12	2.97	4.63	4.18	1.24	0.90	0.87	0.93	
11	0.73	0.94	3.02	2.55	4.33	3.15	4.81	4.10	1.22	0.90	0.88	0.89	
12	0.72	0.98	3.18	2.43	4.74	3.42	4.23	3.37	1.20	0.88	0.87	0.88	
13	0.71	1.51	4.11	2.23	5.10	3.39	3.56	2.89	1.18	0.88	0.86	0.86	
14	0.81	1.70	4.62	2.08	5.35	3.21	3.36	2.53	1.17	0.87	0.85	0.88	
15	1.25	1.81	4.90	1.95	5.47	2.89	3.24	2.33	1.15	0.86	0.84	0.85	
16	1.06	2.07	4.64	1.87	5.53	2.63	3.33	2.22	1.14	0.86	0.83	0.84	
17	1.02	1.98	4.32	1.84	5.14	2.50	3.61	2.11	1.12	0.85	0.83	0.84	
18	0.99	2.19	3.99	1.75	4.71	2.62	4.62	2.04	1.11	0.84	0.83	0.84	
19	1.12	1.92	3.97	1.71	4.61	3.26	5.25	1.98	1.09	0.83	0.82	0.83	
20	1.30	1.53	3.72	1.66	4.36	3.43	5.25	1.95	1.09	0.83	0.82	0.83	
21	1.20	1.50	4.09	1.59	3.66	3.23	4.62	1.89	1.06	0.82	0.82	0.78	
22	1.05	1.66	4.78	1.55	3.28	2.93	4.28	1.84	1.04	0.82	0.81	0.75	
23	0.97	1.80	5.09	1.53	2.95	3.12	4.59	1.77	1.03	0.82	0.80	0.75	
24	0.98	1.57	4.96	1.52	3.06	3.99	5.47	1.73	1.03	0.82	0.79	0.73	
25	0.94	1.49	4.41	1.53	4.17	4.78	6.60	1.70	1.01	0.81	0.78	0.78	
26	0.89	1.56	3.92	1.50	4.90	5.23	6.37	1.65	1.01	0.81	0.77	0.79	
27	0.86	1.34	3.93	1.96	5.87	5.27	6.30	1.61	0.99	0.81	0.76	0.78	
28	1.32	1.34	4.01	3.17	6.74	4.98	6.08	1.57	0.98	0.81	0.75	0.76	
29	1.92	1.20	4.08	4.71	6.75	4.78	5.27	1.54	0.96	0.80		0.74	
30	1.89	1.12	4.19	5.42	6.48	4.65	5.05	1.51	0.96	0.79		0.72	
31		1.22		5.67	6.19		4.17		0.95	0.79		0.71	
MEAN	0.99	1.39	3.49	2.65	4.73	3.80	5.05	2.44	1.16	0.86	0.82	0.87	
MAX	1.92	2.19	5.09	5.67	6.75	5.83	6.60	4.18	1.47	0.95	0.88	1.30	6.75
MIN	0.71	0.93	1.09	1.50	2.95	2.50	3.24	1.51	0.95	0.79	0.75	0.71	0.71

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.83 M (A.D), AT 18.00 HOURS, ON AUG 28, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.44 M (A.D)

LEFT BANK ELEVATION — 6.69 M (A.D)

RIGHT BANK ELEVATION — 4.84 M (A.D), DRAINAGE AREA — 1164 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.58	4.76	3.32	32.44	55.88	67.77	59.85	25.34	4.52	1.40	0.45	0.40	
2	1.10	2.96	2.24	31.64	41.80	55.00	74.90	21.30	4.34	1.40	0.45	1.46	
3	0.68	2.12	4.10	31.32	32.76	43.10	76.10	19.02	4.10	1.34	0.45	1.52	
4	0.50	1.64	4.88	26.74	33.40	35.16	77.70	16.70	3.98	1.34	0.45	3.50	
5	0.40	1.34	5.72	19.02	39.28	28.90	79.63	15.27	3.74	1.28	0.50	2.90	
6	0.40	1.76	10.88	16.04	37.74	26.18	72.79	14.00	3.56	1.28	0.56	1.94	
7	0.35	1.76	13.60	14.10	33.24	25.48	64.33	14.50	3.32	1.28	0.68	1.52	
8	0.20	1.28	18.13	13.50	29.65	22.08	55.22	13.50	3.26	1.16	0.74	1.28	
9	0.20	1.40	17.80	12.70	31.32	17.91	42.70	19.98	3.20	1.16	0.86	1.16	
10	0.15	1.28	14.83	11.96	32.92	17.47	41.44	33.88	3.14	1.10	0.92	1.28	
11	0.15	1.34	18.02	13.00	36.28	19.50	44.90	32.60	3.02	1.10	0.98	1.04	
12	0.10	1.58	19.86	11.87	43.50	22.86	34.68	22.21	2.90	0.98	0.92	0.98	
13	0.05	4.76	32.76	10.07	50.70	22.47	24.68	16.59	2.78	0.98	0.86	0.86	
14	0.56	5.90	41.26	8.84	56.10	20.22	22.08	12.80	2.72	0.92	0.30	0.98	
15	3.20	6.68	46.70	7.80	58.88	16.59	20.56	10.97	2.60	0.86	0.74	0.80	
16	2.06	8.76	41.62	7.16	60.35	13.80	21.69	9.98	2.54	0.86	0.68	0.74	
17	1.82	8.04	36.12	6.92	51.54	12.50	25.34	9.08	2.42	0.80	0.68	0.74	
18	1.64	9.72	30.85	6.25	42.90	13.70	41.26	8.52	2.36	0.74	0.68	0.74	
19	2.42	7.56	30.55	5.97	41.08	20.82	53.90	8.04	2.24	0.68	0.62	0.68	
20	3.50	4.88	26.88	5.66	36.76	22.99	53.90	7.80	2.24	0.68	0.62	0.68	
21	2.90	4.70	32.44	5.24	26.04	20.46	41.26	7.32	2.06	0.62	0.62	0.40	
22	2.00	5.66	44.30	5.00	21.06	17.03	35.48	6.92	1.94	0.62	0.56	0.25	
23	1.52	6.60	50.50	4.88	17.25	19.14	40.72	6.39	1.88	0.62	0.50	0.25	
24	1.58	5.12	47.90	4.82	18.46	30.85	58.88	6.11	1.88	0.62	0.45	0.15	
25	1.34	4.64	37.57	4.88	33.72	44.30	93.00	5.90	1.76	0.56	0.40	0.40	
26	1.04	5.06	29.80	4.70	46.70	53.46	84.98	5.60	1.76	0.56	0.35	0.45	
27	0.86	3.74	29.95	7.88	69.03	54.34	82.60	5.36	1.64	0.56	0.30	0.40	
28	3.62	3.74	31.16	19.74	98.04	48.30	75.50	5.12	1.58	0.56	0.25	0.30	
29	7.56	2.90	32.28	42.90	98.40	44.30	54.34	4.94	1.46	0.50		0.20	
30	7.32	2.42	34.04	57.68	88.80	41.80	49.70	4.76	1.46	0.45		0.10	
31		3.02		63.22	78.98		33.72		1.40	0.45		0.05	
TOTAL	50.80	127.12	790.06	513.94	1442.56	898.48	1637.85	390.50	81.80	27.46	17.07	28.15	6005.78 CMSDAY
MEAN	1.69	4.10	26.34	16.58	46.53	29.95	52.83	13.02	2.64	0.89	0.61	0.91	16.45 CMS
MAX	7.56	9.72	50.50	63.22	98.40	67.77	93.00	33.88	4.52	1.40	0.98	3.50	98.40 CMS
MIN	0.05	1.28	2.24	4.70	17.25	12.50	20.58	4.76	1.40	0.45	0.25	0.05	0.05 CMS
RUNOFF	4.389	10.983	68.261	44.404	124.637	77.629	141.510	33.739	7.068	2.373	1.475	2.432	518.899 MCM

MOMENTARY PEAK 101.34 CMS, AT 6.83 M (A.D), AT 18.00 HOURS, ON AUG 28, 1980

RUNOFF YIELD 14.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 87.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

EAST COAST-GULF BASIN

KHLONG TA NOT AT BAN THAP CHUM, CHANTHABURI (2.7)

LOCATION — LAT. 12°-47'-56" N., LONG. 101°-54'-32" E., ON RIGHT BANK ABOUT 9 KILOMETERS FROM THE ENTRANCE OF NIKHOM DONG THAP AND ABOUT 14 KILOMETERS UPSTREAM FROM NONG KHLA MARKET, BAN THAP CHUM, AMPHOE THA MAI, CHANTHABURI.

DRAINAGE AREA — 1,318 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +2.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ALONG THE MEASURING LINE.

ELEVATION — +12.101 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 — 1965-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

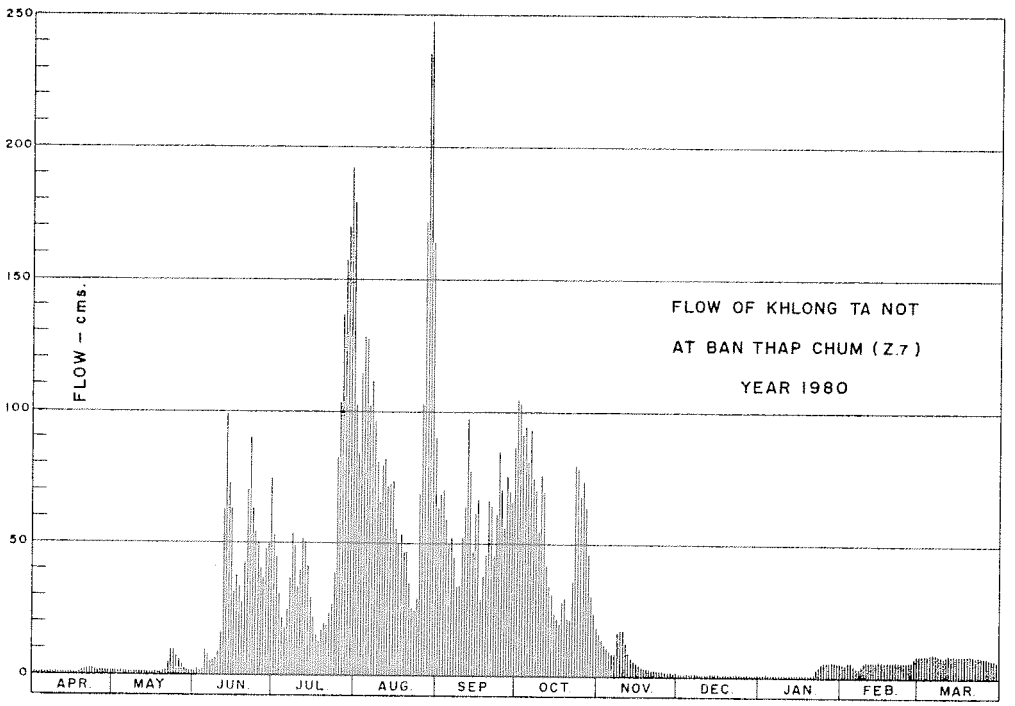
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 819 DISCHARGE MEASUREMENTS MADE DURING 1965-1970.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.31	3.10	3.10	6.08	7.63	6.39	7.68	4.44	3.08	2.85	3.56	3.84	
2	2.32	3.12	3.25	5.68	7.08	6.61	7.64	4.30	3.02	2.93	3.56	3.84	
3	2.33	3.11	3.13	5.21	8.12	6.66	7.30	4.15	3.01	2.92	3.67	3.84	
4	2.33	3.10	3.28	4.76	8.29	6.26	7.40	4.02	3.02	2.87	3.67	3.88	
5	2.31	3.07	3.95	4.53	8.27	5.96	7.04	3.91	3.01	2.86	3.52	3.88	
6	2.25	3.05	3.77	4.92	7.62	6.06	7.35	3.86	3.01	2.86	3.43	3.92	
7	2.22	3.02	3.53	5.69	7.87	5.73	6.80	3.86	3.00	2.85	3.38	3.90	
8	2.20	3.00	3.65	6.11	7.42	5.32	6.65	4.48	3.04	2.85	3.53	3.83	
9	2.17	2.96	3.69	5.95	6.96	5.36	6.13	4.52	3.05	2.85	3.56	3.82	
10	2.13	2.95	3.95	5.33	6.51	6.03	6.67	4.51	3.02	2.84	3.69	3.80	
11	2.12	2.93	4.49	5.60	6.95	6.43	6.28	4.18	3.01	2.84	3.65	3.81	
12	2.12	2.95	6.84	6.04	7.05	7.49	5.68	3.90	3.00	2.84	3.67	3.87	
13	2.09	2.97	7.53	6.01	6.71	6.83	5.33	3.73	2.99	2.82	3.65	3.87	
14	2.05	2.98	6.73	5.48	6.73	5.85	5.19	3.64	2.97	2.82	3.65	3.87	
15	2.09	3.02	6.41	5.07	6.78	6.35	4.85	3.58	2.96	2.82	3.70	3.85	
16	2.12	3.00	5.45	4.74	6.13	6.56	4.76	3.51	2.96	2.85	3.68	3.85	
17	2.17	3.00	5.50	4.42	5.99	5.10	4.60	3.44	2.97	2.85	3.62	3.84	
18	2.92	2.99	5.30	4.19	6.09	5.59	5.07	3.40	2.97	2.84	3.68	3.85	
19	3.13	3.04	5.05	4.55	5.86	5.81	5.13	3.36	2.95	2.82	3.67	3.84	
20	3.19	3.11	5.65	4.67	5.88	6.55	4.76	3.32	2.94	2.81	3.67	3.84	
21	3.22	3.19	6.75	4.64	5.37	6.46	4.74	3.29	2.92	2.94	3.67	3.83	
22	3.23	3.57	7.07	4.86	4.96	5.81	5.59	3.27	2.90	3.38	3.66	3.80	
23	3.22	3.95	6.29	5.00	4.89	6.31	6.96	3.26	2.90	3.47	3.66	3.83	
24	3.17	3.97	6.11	5.43	5.11	7.12	6.93	3.21	2.89	3.63	3.65	3.81	
25	3.12	3.76	5.98	7.12	6.42	6.66	6.58	3.19	2.88	3.66	3.66	3.78	
26	3.10	3.65	5.61	7.73	7.67	6.19	6.76	3.17	2.88	3.66	3.65	3.76	
27	3.11	3.47	5.46	8.56	9.23	6.84	6.43	3.16	2.87	3.66	3.66	3.74	
28	3.13	3.30	5.89	8.99	10.21	6.64	5.63	3.16	2.86	3.67	3.78	3.73	
29	3.12	3.18	6.00	9.24	10.44	6.50	5.14	3.15	2.86	3.67		3.70	
30	3.10	3.15	6.80	9.64	9.32	7.11	4.82	3.11	2.85	3.64		3.66	
31		3.10		9.39	6.91		4.59		2.85	3.64		3.63	
MEAN	2.60	3.19	5.21	5.99	7.11	6.29	6.02	3.67	2.96	3.10	3.63	3.82	
MAX	3.23	3.97	7.53	9.64	10.44	7.49	7.68	4.52	3.08	3.67	3.78	3.92	10.44
MIN	2.05	2.93	3.10	4.19	4.89	5.10	4.59	3.11	2.85	2.81	3.38	3.63	2.05

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.53 M (MSL), AT 9.00 HOURS, ON AUG 29, 1980
ZERO GAGE AT BOTTOM ELEVATION 2.00 M (MSL), RIVER BED 1.25 M (MSL)
LEFT BANK ELEVATION 10.66 M (MSL)
RIGHT BANK ELEVATION 11.45 M (MSL), DRAINAGE AREA 1318 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	1.70	1.70	52.90	102.55	62.20	104.30	16.10	1.62	0.90	5.00	8.14	
2	0.00	1.80	2.50	42.00	83.30	68.80	102.90	14.00	1.38	1.09	5.00	8.14	
3	0.00	1.75	1.85	30.70	121.30	70.30	91.00	11.85	1.34	1.06	6.17	8.14	
4	0.00	1.70	2.68	21.70	128.10	58.30	94.50	10.26	1.38	0.94	6.17	8.61	
5	0.00	1.58	9.44	17.45	127.30	49.30	81.90	8.97	1.34	0.92	4.60	8.61	
6	0.00	1.50	7.32	24.90	102.20	52.30	92.75	8.38	1.34	0.92	3.84	9.08	
7	0.00	1.38	4.70	42.25	111.30	43.25	74.50	8.38	1.30	0.90	3.44	8.85	
8	0.00	1.30	5.95	53.80	95.20	33.00	70.00	16.70	1.46	0.90	4.70	8.03	
9	0.00	1.18	6.39	49.00	79.30	34.00	54.40	17.30	1.50	0.90	5.00	7.91	
10	0.00	1.15	9.44	33.25	65.80	51.40	70.60	17.15	1.38	0.88	6.39	7.67	
11	0.00	1.09	16.85	40.00	79.00	63.40	58.90	12.24	1.34	0.88	5.95	7.79	
12	0.00	1.15	75.70	51.70	82.25	97.65	42.00	8.85	1.30	0.88	6.17	8.50	
13	0.00	1.21	99.05	50.80	71.80	75.40	33.25	6.85	1.27	0.84	5.95	8.50	
14	0.00	1.24	72.40	37.00	72.40	46.25	30.30	5.84	1.21	0.84	5.95	8.50	
15	0.00	1.38	62.80	27.90	73.90	61.00	23.50	5.20	1.18	0.84	6.50	8.26	
16	0.00	1.30	36.25	21.30	54.40	67.30	21.70	4.50	1.18	0.90	6.28	8.26	
17	0.00	1.30	37.50	15.80	50.20	28.50	18.50	3.92	1.21	0.90	5.62	8.14	
18	1.06	1.27	32.50	12.37	53.20	39.75	27.90	3.60	1.21	0.88	6.28	8.26	
19	1.85	1.46	27.50	17.75	46.50	45.25	29.10	3.28	1.15	0.84	6.17	8.14	
20	2.15	1.75	41.25	19.90	47.00	67.00	21.70	2.96	1.12	0.82	6.17	8.14	
21	2.32	2.15	73.00	19.30	34.25	64.30	21.30	2.74	1.06	1.12	6.17	8.03	
22	2.38	5.10	82.95	23.70	25.70	45.25	39.75	2.62	1.00	3.44	6.06	7.67	
23	2.32	9.44	59.20	26.50	24.30	59.80	79.30	2.56	1.00	4.16	6.06	8.03	
24	2.05	9.67	53.80	35.75	28.70	84.70	78.40	2.26	0.98	5.73	5.95	7.79	
25	1.80	7.20	49.90	84.70	63.10	70.30	67.90	2.15	0.96	6.06	6.06	7.44	
26	1.70	5.95	40.25	106.05	103.95	56.20	73.30	2.05	0.96	6.06	5.95	7.20	
27	1.75	4.16	36.50	138.90	169.50	75.70	63.40	2.00	0.94	6.06	6.06	6.97	
28	1.85	2.80	47.25	157.55	230.75	69.70	40.75	2.00	0.92	6.17	7.44	6.85	
29	1.80	2.10	50.50	170.00	248.00	65.50	29.30	1.95	0.92	6.17		6.50	
30	1.70	1.95	74.50	192.40	174.00	84.35	22.90	1.75	0.90	5.84		6.06	
31		1.70		177.50	77.80		18.35		0.90	5.84		5.73	
TOTAL	24.73	90.41	1121.62	1794.82	2827.05	1790.15	1678.35	208.41	36.75	74.68	161.10	243.94	10042.00 CMSDAY
MEAN	0.82	2.59	37.39	57.90	91.20	59.67	54.14	6.95	1.19	2.41	5.75	7.87	27.51 CMS
MAX	2.38	9.67	99.05	192.40	248.00	97.65	104.30	17.30	1.62	6.17	7.44	9.08	248.00 CMS
MIN	0.00	1.09	1.70	12.37	24.30	28.50	18.35	1.75	0.90	0.82	3.44	5.73	0.00 CMS
RUNOFF	2.137	6.947	96.908	155.072	244.257	154.669	145.009	18.007	3.175	6.452	13.919	21.076	867.628 MCM

MOMENTARY PEAK 255.12 CMS, AT 10.53 M (MSL), AT 9.00 HOURS, ON AUG 29, 1980

RUNOFF YIELD 20.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 193.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

EAST COAST-GULF BASIN

CHANTHABURI RIVER AT BAN PUK, CHANTHABURI (Z.13)

LOCATION — LAT. 12°-45'-40" N., LONG. 102°-18'-35" E., ON LEFT BANK INFRONT OF WAT BAN PUK, AMPHOE MAKHAM, CHANTHABURI.

DRAINAGE AREA — 671 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +8.083 M.(A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1968 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 134 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING MAY 1-21,1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

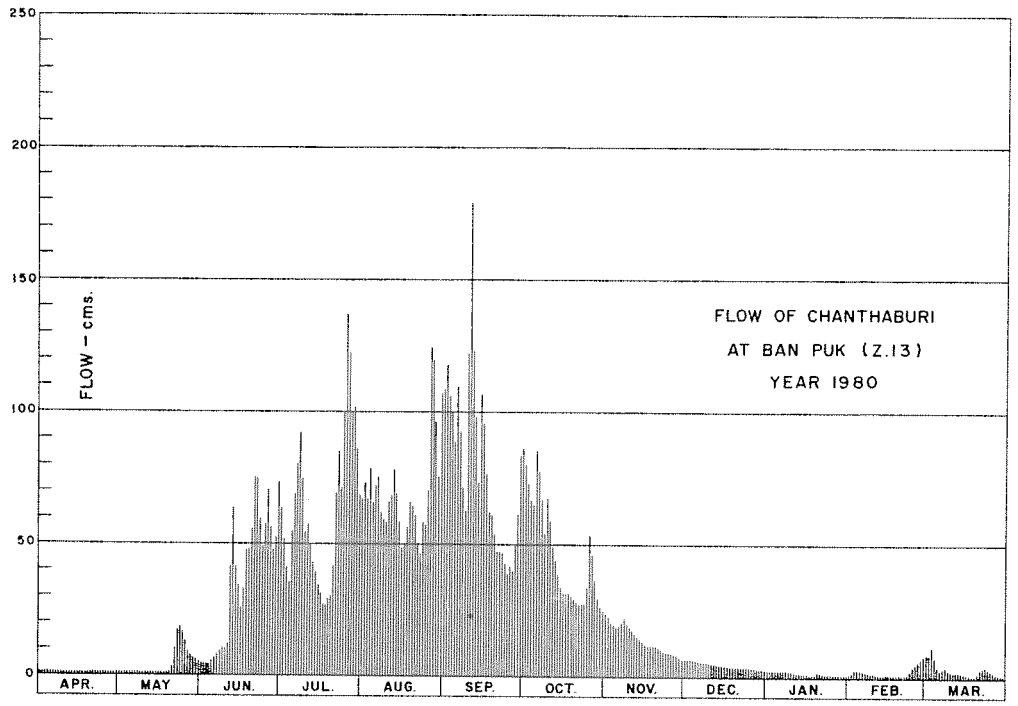
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.00	0.59	2.69	2.71	3.76	3.19	1.39	0.71	0.47	0.26	0.80	
2	0.37	0.00	0.60	2.39	2.86	3.98	3.04	1.33	0.70	0.46	0.36	0.78	
3	0.38	0.00	0.59	2.01	2.71	3.69	2.84	1.27	0.69	0.45	0.51	0.93	
4	0.36	0.00	0.58	1.80	3.01	3.53	2.59	1.25	0.69	0.45	0.45	0.65	
5	0.36	0.00	0.69	2.36	2.66	3.26	2.67	1.22	0.68	0.44	0.47	0.54	
6	0.36	0.00	0.73	2.71	2.84	3.78	3.17	1.23	0.66	0.44	0.43	0.49	
7	0.36	0.00	0.77	2.92	2.92	3.31	2.85	1.28	0.65	0.43	0.42	0.51	
8	0.35	0.00	0.85	3.35	2.58	2.80	2.65	1.32	0.64	0.43	0.41	0.55	
9	0.35	0.00	0.88	2.90	2.46	2.58	2.34	1.27	0.64	0.42	0.36	0.47	
10	0.34	0.00	0.87	2.35	2.47	3.44	2.71	1.22	0.63	0.42	0.36	0.44	
11	0.23	0.00	0.98	2.43	2.67	5.40	2.49	1.15	0.62	0.41	0.37	0.42	
12	0.23	0.00	1.99	2.25	2.74	3.95	2.17	1.09	0.61	0.41	0.32	0.42	
13	0.23	0.00	2.61	2.07	2.99	3.23	2.01	1.06	0.60	0.40	0.34	0.42	
14	0.23	0.00	2.03	1.94	2.65	2.88	1.86	1.03	0.60	0.39	0.34	0.40	
15	0.22	0.00	1.79	1.76	2.45	3.70	1.74	1.00	0.58	0.39	0.37	0.38	
16	0.29	0.00	1.46	1.62	2.19	3.31	1.65	0.97	0.57	0.38	0.35	0.36	
17	0.28	0.00	1.72	1.50	2.24	2.79	1.66	0.94	0.56	0.35	0.32	0.34	
18	0.26	0.00	2.16	1.50	2.38	2.58	1.65	0.94	0.55	0.35	0.31	0.28	
19	0.26	0.00	2.17	1.60	2.65	2.52	1.64	0.94	0.54	0.35	0.31	0.26	
20	0.26	0.00	2.43	1.66	2.63	2.34	1.58	0.92	0.54	0.41	0.29	0.23	
21	0.25	0.00	2.92	1.94	2.51	2.13	1.52	0.89	0.53	0.38	0.29	0.49	
22	0.26	0.76	2.90	2.71	2.22	2.13	1.51	0.86	0.53	0.37	0.27	0.54	
23	0.21	1.17	2.37	3.17	2.13	2.11	1.51	0.84	0.51	0.36	0.30	0.56	
24	0.17	1.21	2.21	2.82	2.47	1.98	1.52	0.82	0.51	0.35	0.38	0.49	
25	0.10	1.10	2.48	3.57	2.44	1.88	1.72	0.82	0.50	0.34	0.56	0.44	
26	0.08	0.96	2.79	4.43	2.81	1.97	2.31	0.81	0.50	0.34	0.64	0.39	
27	0.04	0.82	2.35	4.06	4.14	1.91	1.98	0.78	0.49	0.34	0.70	0.35	
28	0.00	0.74	2.17	3.55	3.95	2.28	1.71	0.76	0.49	0.33	0.74	0.32	
29	0.00	0.68	2.29	3.59	3.19	2.56	1.56	0.74	0.48	0.33		0.28	
30	0.00	0.64	2.86	3.28	2.94	3.22	1.48	0.71	0.47	0.31		0.24	
31		0.61		2.73	3.69		1.42		0.47	0.26		0.20	
MEAN	0.24	0.28	1.73	2.57	2.75	2.97	2.09	1.03	0.58	0.39	0.40	0.45	
MAX	0.38	1.21	2.92	4.43	4.14	5.40	3.19	1.39	0.71	0.47	0.74	0.93	5.40
MIN	0.00	0.00	0.58	1.50	2.13	1.88	1.42	0.71	0.47	0.26	0.26	0.20	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.84 M (A.D), AT 3.00 HOURS, ON SEP 11, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — M (A.D)

LEFT BANK ELEVATION — 8.11 M (A.D)

RIGHT BANK ELEVATION — 6.85 M (A.D), DRAINAGE AREA — 671 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	0.00	4.34	66.73	67.47	108.66	85.81	23.31	6.42	2.45	0.00	8.40	
2	0.98	0.00	4.50	55.75	73.08	117.68	79.96	21.57	6.20	2.30	0.84	7.96	
3	1.12	0.00	4.34	42.53	67.47	105.79	72.32	19.89	6.03	2.15	3.06	11.39	
4	0.84	0.00	4.18	35.60	78.79	99.23	63.03	19.35	6.03	2.15	2.15	5.35	
5	0.84	0.00	6.03	54.69	65.62	88.54	65.99	18.54	5.86	2.00	2.45	3.54	
6	0.84	0.00	6.86	67.47	72.32	109.48	85.03	18.81	5.52	2.00	1.85	2.75	
7	0.84	0.00	7.74	75.36	75.36	90.49	72.70	20.16	5.35	1.85	1.70	3.06	
8	0.70	0.00	9.55	92.05	62.66	70.80	65.25	21.28	5.18	1.85	1.55	3.70	
9	0.70	0.00	10.24	74.60	58.26	62.66	53.98	19.89	5.18	1.70	0.84	2.45	
10	0.56	0.00	10.01	54.33	58.62	95.60	67.47	18.54	5.01	1.70	0.84	2.00	
11	0.00	0.00	12.54	57.18	65.99	178.47	59.34	16.75	4.84	1.55	0.98	1.70	
12	0.00	0.00	41.87	50.80	68.58	116.45	47.97	15.25	4.67	1.55	0.28	1.70	
13	0.00	0.00	63.77	44.51	78.02	87.37	42.53	14.50	4.50	1.40	0.56	1.70	
14	0.00	0.00	43.19	40.22	65.25	73.84	37.58	13.75	4.50	1.26	0.56	1.40	
15	0.00	0.00	35.29	34.36	57.90	106.20	33.74	13.00	4.18	1.26	0.98	1.12	
16	0.00	0.00	25.34	30.10	48.68	90.49	31.00	12.31	4.02	1.12	0.70	0.84	
17	0.00	0.00	33.12	26.50	50.45	70.43	31.30	11.62	3.86	0.70	0.28	0.56	
18	0.00	0.00	47.62	26.50	55.39	62.66	31.00	11.62	3.70	0.70	0.14	0.00	
19	0.00	0.00	47.97	29.50	65.25	60.44	30.70	11.62	3.54	0.70	0.14	0.00	
20	0.00	0.00	57.18	31.30	64.51	53.98	28.90	11.16	3.54	1.55	0.00	0.00	
21	0.00	0.00	75.36	40.22	60.07	46.56	27.10	10.47	3.38	1.12	0.00	2.75	
22	0.00	7.52	74.60	67.47	49.74	46.56	26.80	9.78	3.38	0.98	0.00	3.54	
23	0.00	17.25	55.04	85.03	46.56	45.85	26.80	9.32	3.06	0.84	0.00	3.86	
24	0.00	18.27	49.39	71.56	58.62	41.54	27.10	8.86	3.06	0.70	1.12	2.75	
25	0.00	15.50	58.98	100.87	57.54	38.24	33.12	8.86	2.90	0.56	3.86	2.00	
26	0.00	12.08	70.43	136.70	71.18	41.21	52.92	8.63	2.90	0.56	5.18	1.26	
27	0.00	8.86	54.33	121.02	124.38	39.23	41.54	7.96	2.75	0.56	6.20	0.70	
28	0.00	7.08	47.97	100.05	116.45	51.86	32.81	7.52	2.75	0.42	7.08	0.28	
29	0.00	5.86	52.21	101.69	85.81	61.92	28.30	7.08	2.60	0.42		0.00	
30	0.00	5.18	73.08	89.32	76.12	86.98	25.92	6.42	2.45	0.14		0.00	
31		4.67		68.21	105.79		24.18		2.45	0.00		0.00	
TOTAL	8.40	102.27	1087.07	1972.22	2151.93	2349.21	1432.19	417.82	129.81	38.24	43.34	76.76	9809.25 CMSDAY
MEAN	0.28	3.30	36.24	63.62	69.42	78.31	46.20	13.93	4.19	1.23	1.55	2.48	26.87 CMS
MAX	1.12	18.27	75.36	136.70	124.38	178.47	85.81	23.31	6.42	2.45	7.08	11.39	178.47 CMS
MIN	0.00	0.00	4.18	26.50	46.56	38.24	24.18	6.42	2.45	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.726	8.836	93.923	170.400	185.927	202.972	123.741	36.100	11.216	3.304	3.745	6.632	847.519 MCM

MOMENTARY PEAK 197.42 CMS, AT 5.84 M (A.D), AT 3.00 HOURS, ON SEP 11, 1980

RUNOFF YIELD 40.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 294.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

EAST COAST-GULF BASIN

KHLONG YAI AT BAN PAK PHRAEK, RAYONG (2.15)

LOCATION — LAT. 12°-55'-41" N., LONG. 101°-19'-30" E., ON RIGHT BANK AT BAN PAK PHRAEK, KING AMPHOE PLUAK DAENG, RAYONG.

DRAINAGE AREA — 244 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — -

ELEVATION — +4.715 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

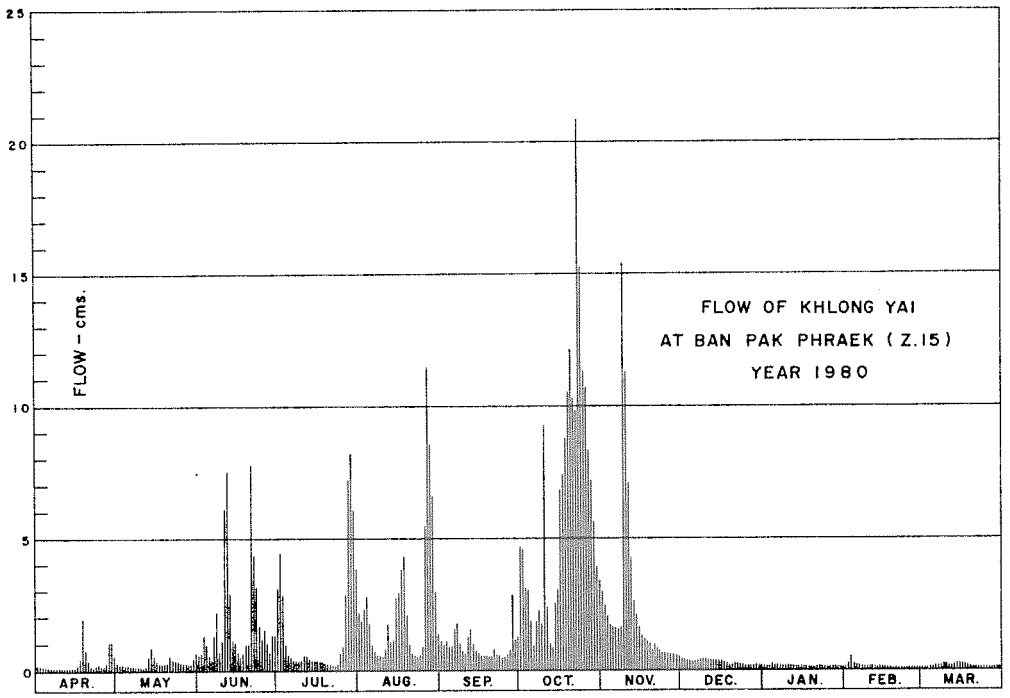
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 133 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.61	0.71	1.02	1.98	1.74	1.36	2.22	1.95	0.92	0.62	0.56	0.54	
2	0.58	0.64	1.07	2.19	1.59	1.29	2.21	1.83	0.87	0.57	0.69	0.52	
3	0.57	0.63	1.44	1.96	1.77	1.35	1.99	1.70	0.82	0.58	1.01	0.53	
4	0.56	0.65	1.25	1.33	1.92	1.25	1.96	1.59	0.79	0.68	0.66	0.54	
5	0.53	0.62	0.92	1.07	1.60	1.25	1.63	1.57	0.77	0.64	0.67	0.56	
6	0.51	0.59	0.84	0.92	1.29	1.54	1.26	1.55	0.76	0.63	0.65	0.59	
7	0.51	0.58	2.55	0.84	1.13	1.60	1.63	1.53	0.79	0.63	0.62	0.58	
8	0.50	0.57	1.72	0.82	1.01	1.38	1.74	1.56	0.84	0.60	0.59	0.59	
9	0.50	0.56	1.10	0.81	0.96	1.17	1.59	2.98	0.85	0.57	0.58	0.68	
10	0.50	0.56	1.32	0.83	0.95	1.11	2.64	2.77	0.85	0.63	0.60	0.67	
11	0.49	0.54	2.41	1.01	1.21	1.39	1.90	2.47	0.82	0.62	0.59	0.61	
12	0.49	0.53	2.51	0.99	1.59	1.52	1.35	2.17	0.84	0.59	0.57	0.61	
13	0.49	0.94	1.95	0.98	1.33	1.32	1.22	1.86	0.83	0.57	0.58	0.67	
14	0.48	1.23	1.38	0.84	1.36	1.17	1.79	1.68	0.81	0.58	0.57	0.70	
15	0.49	0.99	1.32	0.81	1.89	1.09	1.97	1.54	0.80	0.59	0.57	0.69	
16	0.53	0.80	1.14	0.82	1.94	1.03	2.45	1.45	0.76	0.58	0.56	0.68	
17	0.87	0.69	0.95	0.77	2.10	0.99	2.50	1.40	0.74	0.57	0.53	0.65	
18	1.65	0.68	1.04	0.78	2.16	1.02	2.60	1.36	0.73	0.55	0.53	0.62	
19	1.18	0.68	1.27	0.74	1.96	0.98	2.72	1.32	0.62	0.55	0.53	0.56	
20	0.81	0.70	1.26	0.69	1.34	1.00	2.82	1.18	0.65	0.54	0.53	0.51	
21	0.63	0.98	2.53	0.67	1.19	1.18	2.71	1.29	0.70	0.58	0.52	0.54	
22	0.55	0.88	2.26	0.62	1.01	1.06	2.63	1.23	0.70	0.60	0.52	0.52	
23	0.63	0.82	1.99	0.60	0.97	1.02	3.20	1.16	0.69	0.58	0.52	0.52	
24	0.64	0.77	1.58	0.69	1.01	0.93	3.01	1.09	0.64	0.56	0.52	0.50	
25	0.53	0.72	1.39	1.10	1.24	0.93	2.78	1.11	0.62	0.55	0.51	0.49	
26	0.59	0.69	1.53	1.22	1.70	1.04	2.73	1.07	0.63	0.56	0.50	0.51	
27	0.66	0.71	1.32	1.91	2.75	1.17	2.56	1.05	0.63	0.57	0.54	0.52	
28	1.33	0.70	1.15	2.48	2.58	1.92	2.48	1.03	0.63	0.57	0.54	0.51	
29	1.34	0.65	1.45	2.56	2.42	1.37	2.31	1.00	0.66	0.57		0.51	
30	1.04	0.87	1.46	2.36	1.95	1.43	2.14	0.97	0.63	0.56		0.54	
31		1.11		2.10	1.48		2.03		0.63	0.56		0.52	
MEAN	0.69	0.74	1.50	1.21	1.58	1.23	2.22	1.55	0.74	0.59	0.58	0.57	
MAX	1.65	1.23	2.55	2.56	2.78	1.92	3.20	2.98	0.92	0.68	1.01	0.70	3.20
MIN	0.48	0.53	0.84	0.60	0.95	0.93	1.22	0.97	0.62	0.54	0.50	0.49	0.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.33 M (A.D), AT 6.00 HOURS, ON OCT 23, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.47 M (A.D)
LEFT BANK ELEVATION 3.33 M (A.D)
RIGHT BANK ELEVATION 4.92 M (A.D), DRAINAGE AREA 244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.26	0.58	3.11	2.21	1.12	4.66	2.97	0.47	0.17	0.11	0.09	
2	0.13	0.19	0.62	4.43	1.73	0.98	4.58	2.50	0.42	0.12	0.24	0.07	
3	0.12	0.18	1.30	3.02	2.30	1.10	3.15	2.08	0.37	0.13	0.56	0.08	
4	0.11	0.20	0.90	1.06	2.84	0.90	3.02	1.73	0.34	0.23	0.21	0.09	
5	0.08	0.17	0.47	0.62	1.77	0.90	1.86	1.67	0.32	0.19	0.22	0.11	
6	0.06	0.14	0.39	0.47	0.98	1.58	0.92	1.61	0.31	0.18	0.20	0.14	
7	0.06	0.13	8.05	0.39	0.69	1.77	1.86	1.54	0.34	0.18	0.17	0.13	
8	0.05	0.12	2.15	0.37	0.56	1.16	2.21	1.64	0.39	0.15	0.14	0.14	
9	0.05	0.11	0.65	0.36	0.53	0.75	1.73	15.38	0.40	0.12	0.13	0.23	
10	0.05	0.11	1.04	0.38	0.50	0.66	9.26	11.29	0.40	0.18	0.15	0.22	
11	0.04	0.09	6.41	0.56	0.82	1.18	2.75	7.07	0.37	0.17	0.14	0.16	
12	0.04	0.08	7.53	0.54	1.73	1.51	1.10	4.29	0.39	0.14	0.12	0.16	
13	0.04	0.49	2.97	0.43	1.06	1.04	0.84	2.61	0.38	0.12	0.13	0.22	
14	0.04	0.86	1.16	0.39	1.12	0.75	2.37	2.02	0.36	0.13	0.12	0.25	
15	0.04	0.54	1.04	0.36	2.71	0.64	3.06	1.58	0.35	0.14	0.12	0.24	
16	0.08	0.35	0.71	0.37	2.93	0.58	6.85	1.32	0.31	0.13	0.11	0.23	
17	0.42	0.24	0.50	0.32	3.80	0.54	7.40	1.20	0.29	0.12	0.08	0.20	
18	1.92	0.23	0.59	0.33	4.22	0.57	8.70	1.12	0.28	0.10	0.08	0.17	
19	0.77	0.23	0.94	0.29	3.02	0.53	10.44	1.04	0.17	0.10	0.08	0.11	
20	0.36	0.25	0.92	0.24	1.08	0.55	12.18	0.77	0.20	0.09	0.08	0.06	
21	0.18	0.53	7.79	0.22	0.65	0.77	10.27	0.98	0.25	0.13	0.07	0.09	
22	0.10	0.43	4.98	0.17	0.56	0.61	9.82	0.86	0.25	0.15	0.07	0.07	
23	0.18	0.37	3.15	0.15	0.52	0.57	20.80	0.74	0.24	0.13	0.07	0.07	
24	0.19	0.32	1.70	0.24	0.56	0.48	16.03	0.64	0.19	0.11	0.07	0.05	
25	0.13	0.27	1.18	0.65	0.88	0.48	11.46	0.66	0.17	0.10	0.06	0.04	
26	0.14	0.24	1.54	0.84	2.08	0.59	10.61	0.62	0.18	0.11	0.05	0.06	
27	0.21	0.26	1.04	2.79	11.46	0.75	8.18	0.60	0.18	0.12	0.09	0.07	
28	1.06	0.25	0.72	7.18	8.44	2.84	7.15	0.58	0.18	0.12	0.09	0.06	
29	1.08	0.20	1.32	8.18	6.52	1.14	5.40	0.55	0.21	0.12		0.06	
30	0.59	0.42	1.35	6.10	2.97	1.27	4.08	0.52	0.18	0.11		0.09	
31		0.66		3.80	1.40		3.38		0.18	0.11		0.07	
TOTAL	8.48	8.92	63.69	45.36	72.64	28.31	196.15	72.18	9.07	4.20	3.76	3.83	519.59 CMSDAY
MEAN	0.28	0.29	2.12	1.56	2.34	0.94	6.33	2.41	0.29	0.14	0.13	0.12	1.42 CMS
MAX	1.92	0.86	8.05	8.18	11.46	2.84	20.80	15.38	0.47	0.23	0.56	0.25	20.80 CMS
MIN	0.04	0.08	0.39	0.15	0.50	0.48	0.84	0.52	0.17	0.09	0.05	0.04	0.04 CMS
RUNOFF	0.733	0.771	5.503	4.178	6.276	2.446	16.947	6.236	0.784	0.363	0.325	0.331	44.892 MCM

MOMENTARY PEAK 24.98 CMS, AT 3.33 M (A.D), AT 6.00 HOURS, ON OCT 23, 1980

RUNOFF YIELD 5.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 102.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

EAST COAST-GULF BASIN

KHLONG PHLO AT BAN RA-OK, RAYONG (Z.16)

LOCATION — LAT. 12°-51'-38" N., LONG. 101°-45'-41" E., ON RIGHT BANK NEAR KHAO CHUK AT BAN RA-OK, TAMBON THUNG KHWAI KIN, AMPHOE KLAENG, RAYONG.

DRAINAGE AREA — 41 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF Z.16 STATION OFFICE.

ELEVATION — +3.368 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 134 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

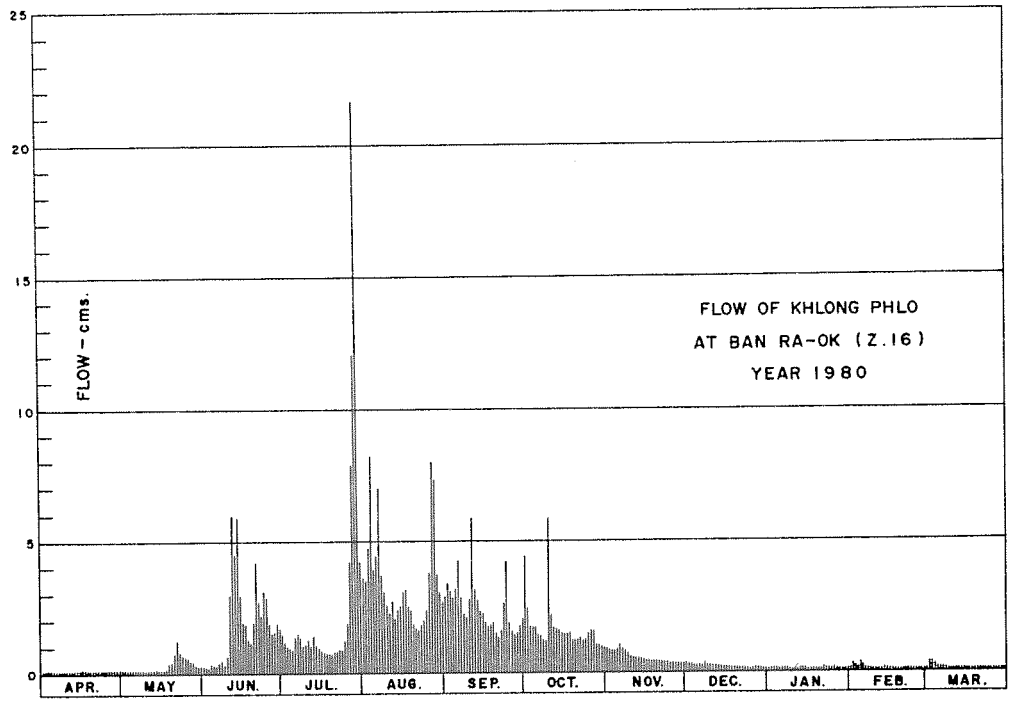
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.56	0.59	0.66	1.12	1.54	1.41	1.66	0.97	0.72	0.60	0.62	0.55	
2	0.56	0.58	0.66	1.04	1.52	1.51	1.34	0.95	0.71	0.61	0.70	0.71	
3	0.56	0.55	0.65	1.00	1.70	1.45	1.19	0.93	0.70	0.61	0.67	0.72	
4	0.55	0.52	0.73	0.97	2.11	1.41	1.19	0.93	0.69	0.61	0.64	0.67	
5	0.55	0.52	0.71	0.95	1.58	1.48	1.18	0.94	0.69	0.61	0.73	0.63	
6	0.53	0.52	0.69	1.10	1.66	1.63	1.11	1.02	0.69	0.60	0.66	0.62	
7	0.53	0.52	0.76	1.13	1.98	1.39	1.10	0.96	0.69	0.61	0.62	0.62	
8	0.53	0.52	0.80	1.10	1.52	1.30	1.06	0.92	0.73	0.61	0.61	0.61	
9	0.53	0.52	0.73	1.01	1.44	1.26	1.05	0.89	0.70	0.59	0.60	0.59	
10	0.53	0.52	0.87	1.03	1.35	1.38	1.85	0.85	0.69	0.57	0.59	0.59	
11	0.53	0.52	0.85	1.07	1.29	1.85	1.28	0.83	0.68	0.57	0.58	0.58	
12	0.53	0.52	1.86	1.01	1.41	1.47	1.18	0.83	0.68	0.58	0.58	0.56	
13	0.55	0.52	1.67	1.10	1.29	1.39	1.17	0.81	0.67	0.61	0.60	0.56	
14	0.53	0.63	1.86	1.00	1.32	1.32	1.15	0.81	0.66	0.61	0.61	0.56	
15	0.53	0.62	1.43	0.97	1.35	1.30	1.13	0.80	0.65	0.60	0.60	0.56	
16	0.53	0.58	1.23	0.95	1.45	1.23	1.11	0.79	0.65	0.58	0.60	0.55	
17	0.61	0.56	1.21	0.92	1.46	1.19	1.12	0.78	0.65	0.57	0.60	0.55	
18	0.53	0.55	1.09	0.90	1.35	1.20	1.13	0.78	0.64	0.57	0.58	0.55	
19	0.53	0.75	1.04	0.90	1.32	1.23	1.06	0.78	0.64	0.60	0.56	0.55	
20	0.53	0.75	1.23	0.90	1.22	1.14	1.06	0.76	0.64	0.57	0.55	0.53	
21	0.53	0.91	1.63	0.93	1.17	1.09	1.07	0.76	0.64	0.55	0.55	0.52	
22	0.60	1.05	1.38	0.94	1.15	1.06	1.09	0.75	0.63	0.64	0.55	0.53	
23	0.60	0.93	1.29	0.96	1.20	1.37	1.05	0.75	0.63	0.61	0.57	0.49	
24	0.59	0.86	1.45	0.96	1.24	1.63	1.07	0.75	0.62	0.61	0.57	0.51	
25	0.58	0.85	1.41	1.06	1.32	1.23	1.12	0.75	0.60	0.60	0.57	0.51	
26	0.58	0.83	1.22	1.23	1.55	1.17	1.15	0.74	0.59	0.61	0.57	0.49	
27	0.59	0.77	1.13	1.78	2.09	1.12	1.15	0.74	0.62	0.60	0.57	0.49	
28	0.59	0.75	1.14	2.42	1.91	1.13	1.00	0.73	0.61	0.59	0.57	0.49	
29	0.60	0.71	1.22	3.02	1.55	1.20	1.00	0.72	0.61	0.59		0.50	
30	0.60	0.69	1.18	2.02	1.45	1.09	0.99	0.71	0.61	0.60		0.51	
31		0.67		1.63	1.38		0.97		0.60	0.60		0.51	
MEAN	0.55	0.66	1.13	1.20	1.48	1.32	1.15	0.82	0.66	0.60	0.60	0.56	
MAX	0.61	1.05	1.86	3.02	2.11	1.85	1.85	1.02	0.73	0.64	0.73	0.72	3.02
MIN	0.53	0.52	0.65	0.90	1.15	1.06	0.97	0.71	0.59	0.55	0.55	0.49	0.49

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.15 M (A.D), AT 6.00 HOURS, ON JUL 29, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.30 M (A.D)

LEFT BANK ELEVATION — 3.60 M (A.D)

RIGHT BANK ELEVATION — 8.44 M (A.D), DRAINAGE AREA 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.09	0.22	1.48	3.61	2.85	4.42	0.94	0.34	0.10	0.14	0.05	
2	0.06	0.08	0.22	1.17	3.48	3.41	2.47	0.88	0.32	0.12	0.30	0.32	
3	0.06	0.05	0.20	1.02	4.70	3.07	1.76	0.83	0.30	0.12	0.24	0.34	
4	0.05	0.02	0.36	0.94	8.16	2.85	1.76	0.83	0.28	0.12	0.18	0.24	
5	0.05	0.02	0.32	0.88	3.87	3.24	1.72	0.86	0.28	0.12	0.36	0.16	
6	0.03	0.02	0.28	1.40	4.42	4.21	1.44	1.10	0.28	0.10	0.22	0.14	
7	0.03	0.02	0.42	1.52	7.02	2.74	1.40	0.91	0.28	0.17	0.14	0.14	
8	0.03	0.02	0.50	1.40	3.48	2.25	1.25	0.80	0.36	0.12	0.12	0.12	
9	0.03	0.02	0.36	1.06	3.02	2.07	1.21	0.72	0.30	0.09	0.10	0.09	
10	0.03	0.02	0.67	1.13	2.52	2.69	5.87	0.62	0.28	0.07	0.09	0.09	
11	0.03	0.02	0.62	1.29	2.20	5.87	2.16	0.57	0.26	0.07	0.08	0.08	
12	0.03	0.02	5.96	1.06	2.85	3.18	1.72	0.57	0.26	0.08	0.08	0.06	
13	0.05	0.02	4.49	1.40	2.20	2.74	1.68	0.52	0.24	0.12	0.10	0.06	
14	0.03	0.16	5.96	1.02	2.36	2.36	1.60	0.52	0.22	0.12	0.12	0.06	
15	0.03	0.14	2.96	0.94	2.52	2.25	1.52	0.50	0.20	0.10	0.10	0.06	
16	0.03	0.08	1.93	0.88	3.07	1.93	1.44	0.48	0.20	0.08	0.10	0.05	
17	0.12	0.06	1.84	0.80	3.13	1.76	1.48	0.46	0.20	0.07	0.10	0.05	
18	0.03	0.05	1.36	0.75	2.52	1.80	1.52	0.46	0.18	0.07	0.08	0.05	
19	0.03	0.40	1.17	0.75	2.36	1.93	1.25	0.46	0.18	0.10	0.06	0.05	
20	0.03	0.40	1.93	0.75	1.89	1.56	1.25	0.42	0.18	0.07	0.05	0.03	
21	0.03	0.78	4.21	0.83	1.68	1.36	1.29	0.42	0.18	0.05	0.05	0.02	
22	0.10	1.21	2.69	0.86	1.60	1.25	1.36	0.40	0.16	0.18	0.05	0.03	
23	0.10	0.83	2.20	0.91	1.80	2.63	1.21	0.40	0.16	0.12	0.07	0.00	
24	0.09	0.65	3.07	0.91	1.98	4.21	1.29	0.40	0.14	0.12	0.07	0.01	
25	0.08	0.62	2.85	1.25	2.36	1.93	1.48	0.40	0.10	0.10	0.07	0.01	
26	0.08	0.57	1.89	1.93	3.67	1.68	1.60	0.38	0.09	0.12	0.07	0.00	
27	0.09	0.44	1.52	5.30	7.96	1.48	1.60	0.38	0.14	0.10	0.07	0.00	
28	0.09	0.40	1.56	11.88	6.39	1.52	1.02	0.36	0.12	0.09	0.07	0.00	
29	0.10	0.32	1.89	21.61	3.67	1.80	1.02	0.34	0.12	0.09		0.80	
30	0.10	0.28	1.72	7.37	3.07	1.36	0.99	0.32	0.12	0.10		0.01	
31		0.24		4.21	2.69		0.94		0.10	0.10		0.01	
TOTAL	1.70	8.05	55.37	78.70	106.25	73.98	52.72	17.25	6.57	3.13	3.28	2.33	409.33 CMSDAY
MEAN	0.06	0.26	1.85	2.54	3.43	2.47	1.70	0.57	0.21	0.10	0.12	0.08	1.12 CMS
MAX	0.12	1.21	5.96	21.61	8.16	5.87	5.87	1.10	0.36	0.18	0.36	0.34	21.61 CMS
MIN	0.03	0.02	0.20	0.75	1.60	1.25	0.94	0.32	0.09	0.05	0.05	0.00	0.00 CMS
RUNOFF	0.147	0.696	4.784	6.800	9.180	6.392	4.555	1.490	0.568	0.270	0.283	0.201	35.366 MCM

MOMENTARY PEAK 24.05 CMS, AT 3.15 M (A.D), AT 6.00 HOURS, ON JUL 29, 1980
RUNOFF YIELD 27.35 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 586.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

KHWAE NOI AT BAN LUM SUM, KANCHANABURI (K.10)

LOCATION — LAT. 14°-05'-40" N., LONG. 99°-10'-28" E., ON LEFT BANK ABOUT 100 METERS UPSTREAM FROM BAN LUM SUM RAILWAY STATION, AMPHOE SAI YOK, KANCHANABURI.

DRAINAGE AREA — 7,008 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +30.40 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +52.057 M. (M.S.L.)

GAGE READING FREQUENCY — 16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 156 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

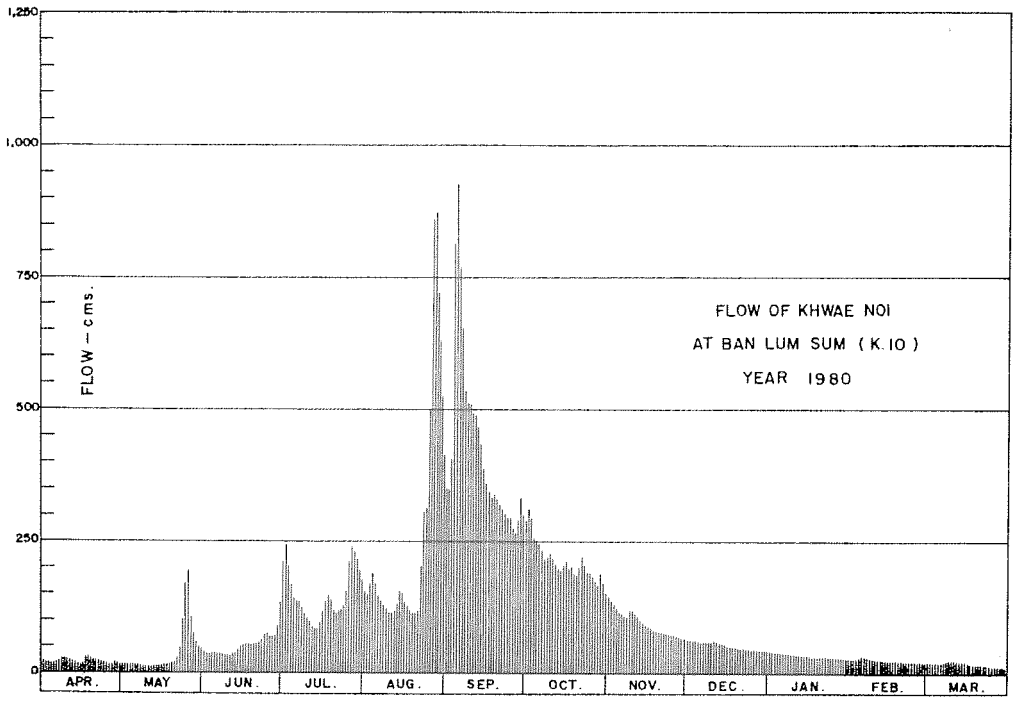
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	31.05	30.95	31.35	34.14	33.13	35.71	34.98	32.99	31.78	31.37	31.16	31.03	
2	31.00	30.94	31.31	34.39	33.00	35.65	35.25	32.91	31.76	31.36	31.17	31.04	
3	31.01	30.95	31.31	33.74	33.46	36.79	34.91	32.81	31.74	31.35	31.19	31.06	
4	31.00	30.94	31.30	33.29	33.64	39.38	34.58	32.71	31.72	31.35	31.20	31.04	
5	30.99	30.92	31.33	32.94	33.36	40.33	34.47	32.61	31.70	31.34	31.26	31.02	
6	31.03	30.91	31.30	32.87	33.07	39.51	34.42	32.55	31.68	31.33	31.22	31.02	
7	31.06	30.90	31.31	32.87	32.90	38.39	34.25	32.49	31.67	31.32	31.19	31.03	
8	31.16	30.89	31.27	32.72	32.78	37.56	34.02	32.46	31.66	31.31	31.18	31.07	
9	31.14	30.89	31.25	32.55	32.67	37.30	34.04	32.65	31.65	31.30	31.18	31.12	
10	31.13	30.89	31.25	32.39	32.64	37.30	34.18	32.64	31.72	31.30	31.18	31.12	
11	31.09	30.88	31.25	32.32	32.66	37.14	33.98	32.57	31.74	31.29	31.16	31.09	
12	31.06	30.87	31.31	32.20	32.67	37.11	33.86	32.44	31.67	31.29	31.14	31.09	
13	31.00	30.87	31.37	32.10	32.82	36.86	33.75	32.32	31.63	31.28	31.13	31.07	
14	30.97	30.89	31.45	32.11	33.17	36.47	33.73	32.26	31.60	31.27	31.11	31.06	
15	30.96	30.89	31.54	32.44	33.10	36.10	33.86	32.21	31.58	31.26	31.11	31.05	
16	30.94	30.94	31.61	32.75	32.85	35.80	33.95	32.16	31.57	31.24	31.09	31.01	
17	31.17	30.94	31.62	32.86	32.69	35.68	33.78	32.12	31.55	31.26	31.09	31.00	
18	31.26	30.96	31.59	33.04	32.62	35.55	33.80	32.08	31.54	31.25	31.08	30.98	
19	31.10	30.95	31.57	32.90	32.54	35.59	33.64	32.05	31.53	31.24	31.08	30.98	
20	31.08	31.04	31.59	32.63	32.54	35.50	33.60	32.03	31.52	31.24	31.08	30.97	
21	31.09	31.06	31.61	32.55	32.62	35.36	33.85	32.00	31.50	31.23	31.07	30.96	
22	31.06	31.27	31.68	32.60	33.47	35.23	34.11	31.97	31.49	31.22	31.07	30.95	
23	31.03	31.62	31.82	32.72	35.16	35.11	33.80	31.95	31.48	31.21	31.07	30.94	
24	31.00	32.40	31.90	32.84	35.28	35.05	33.65	31.92	31.46	31.21	31.06	30.94	
25	30.97	33.37	31.92	33.25	35.71	35.04	33.65	31.90	31.45	31.21	31.05	30.93	
26	30.95	33.71	31.83	34.06	38.11	34.75	33.52	31.88	31.44	31.20	31.05	30.93	
27	30.94	32.57	31.85	34.33	39.55	34.65	33.40	31.85	31.43	31.20	31.05	30.93	
28	31.04	31.94	31.88	34.22	39.63	35.07	33.35	31.83	31.42	31.19	31.04	30.92	
29	30.97	31.66	32.34	34.06	38.78	35.52	33.61	31.81	31.41	31.18		30.92	
30	30.95	31.56	33.19	33.71	37.42	35.09	33.41	31.80	31.40	31.17		30.91	
31		31.44		33.42	36.40		33.14		31.39	31.16		30.91	
MEAN	31.04	31.32	31.60	33.06	34.21	36.35	33.95	32.27	31.58	31.26	31.12	31.00	
MAX	31.26	33.71	33.19	34.39	39.63	40.33	35.25	32.99	31.78	31.37	31.26	31.12	40.33
MIN	30.94	30.87	31.25	32.10	32.54	34.65	33.14	31.80	31.39	31.16	31.04	30.91	30.87

ANNUAL MAX MOMENTARY GAGE HEIGHT — 40.39 M (MSL), AT 9.00 HOURS, ON SEP 5, 1980

ZERO GAGE AT BOTTOM ELEVATION — 30.40 M (MSL), RIVER BED — M (MSL)

LEFT BANK ELEVATION — 47.30 M (MSL)

RIGHT BANK ELEVATION — 46.28 M (MSL), DRAINAGE AREA — 7008 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.7	17.6	45.9	224.4	163.8	346.9	288.4	155.4	76.2	47.3	32.5	23.3	
2	21.2	16.9	43.1	242.3	156.0	342.0	310.0	150.6	74.8	46.6	33.2	24.0	
3	21.9	17.6	43.1	200.4	183.6	451.4	282.8	144.6	73.4	45.9	34.6	25.4	
4	21.2	16.9	42.4	173.4	194.4	784.7	256.5	138.6	72.0	45.9	35.3	24.0	
5	20.5	15.5	44.5	152.4	177.6	923.8	248.2	132.6	70.6	45.2	39.5	22.6	
6	23.3	14.8	42.4	148.2	160.2	803.8	244.5	129.0	69.2	44.5	36.7	22.6	
7	25.4	14.1	43.1	148.2	150.0	643.7	231.8	125.4	68.5	43.8	34.6	23.3	
8	32.5	13.4	40.2	139.2	142.8	539.7	217.2	123.6	67.8	43.1	33.9	26.1	
9	31.1	13.4	38.8	129.0	136.2	508.5	218.4	135.0	67.1	42.4	33.9	29.6	
10	30.4	13.4	38.8	119.3	134.4	508.5	226.8	134.4	72.0	42.4	33.9	29.6	
11	27.5	12.7	38.8	114.4	135.6	490.1	214.8	130.2	73.4	41.6	32.5	27.5	
12	25.4	12.0	43.1	105.9	136.2	486.6	207.6	122.4	68.5	41.6	31.1	27.5	
13	21.2	12.0	47.3	98.8	145.2	459.1	201.0	114.4	65.6	40.9	30.4	26.1	
14	19.1	13.4	52.9	99.5	166.2	417.5	199.8	110.1	63.5	40.2	28.9	25.4	
15	18.4	13.4	59.3	122.4	162.0	381.0	207.6	106.6	62.1	39.5	28.9	24.7	
16	16.9	16.9	64.2	141.0	147.0	354.5	213.0	103.1	61.4	38.1	27.5	21.9	
17	33.2	16.9	64.9	147.6	137.4	344.4	202.8	100.2	60.0	39.5	27.5	21.2	
18	39.5	18.4	62.8	158.4	133.2	334.0	204.0	97.4	59.3	38.8	26.8	19.8	
19	28.2	17.6	61.4	150.0	128.4	337.2	194.4	95.3	58.6	38.1	26.8	19.8	
20	26.8	24.0	62.8	133.8	128.4	330.0	192.0	93.9	57.9	38.1	26.8	19.1	
21	27.5	25.4	64.2	129.0	133.2	318.8	207.0	91.8	56.5	37.4	26.1	18.4	
22	25.4	40.2	69.2	132.0	184.2	308.4	222.6	89.6	55.8	36.7	26.1	17.6	
23	23.3	64.9	79.1	139.2	302.8	298.8	204.0	88.2	55.1	36.0	26.1	16.9	
24	21.2	120.0	84.7	146.4	312.4	294.0	195.0	86.1	53.6	36.0	25.4	16.9	
25	19.1	178.2	86.1	171.0	346.9	293.2	195.0	84.7	52.9	36.0	24.7	16.2	
26	17.6	198.6	79.8	219.6	607.3	270.0	187.2	83.3	52.2	35.3	24.7	16.2	
27	16.9	130.2	81.2	237.7	809.7	262.0	180.0	81.2	51.5	35.3	24.7	16.2	
28	24.0	87.5	83.3	229.5	821.4	295.6	177.0	79.8	50.8	34.6	24.0	15.5	
29	19.1	67.8	115.8	219.6	696.7	331.6	192.6	78.4	50.1	33.9		15.5	
30	17.6	60.7	167.4	198.6	522.9	297.2	180.6	77.6	49.4	33.2		14.8	
31		52.2		181.2	410.5		164.4		48.7	32.5		14.8	
TOTAL	720.1	1336.6	1890.6	4952.4	8166.6	12757.0	6667.0	3283.5	1918.5	1230.4	837.1	662.5	44422.2 CMSDAY
MEAN	24.0	43.1	63.0	159.8	263.4	425.2	215.1	109.4	61.9	39.7	29.9	21.4	121.7 CMS
MAX	39.5	198.6	167.4	242.3	821.4	923.8	310.0	155.4	76.2	47.3	39.5	29.6	923.8 CMS
MIN	16.9	12.0	38.8	98.8	128.4	262.0	164.4	77.6	48.7	32.5	24.0	14.8	12.0 CMS
RUNOFF	62.22	115.48	163.35	427.89	705.59	1102.20	576.03	283.69	165.76	106.31	72.33	57.24	3838.08 MCM

MOMENTARY PEAK 932.55 CMS, AT 40.39 M (MSL), AT 9.00 HOURS, ON SEP 5, 1980

RUNOFF YIELD 17.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 133.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

MAE KLONG RIVER AT BAN WANG KHANAI, KANCHANABURI (K.11)

LOCATION — LAT. 13°-56'-55" N., LONG. 99°-38'-42" E., ON LEFT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM AMPHOE THA MUANG OFFICE, AMPHOE THA MUANG, KANCHANABURI.

DRAINAGE AREA — 26,449 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +11.928 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ALONG THE GAGE LINE.

ELEVATION — +21.985 M. (M.S.L.)

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 — 1965-1969, 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1969, 1972 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

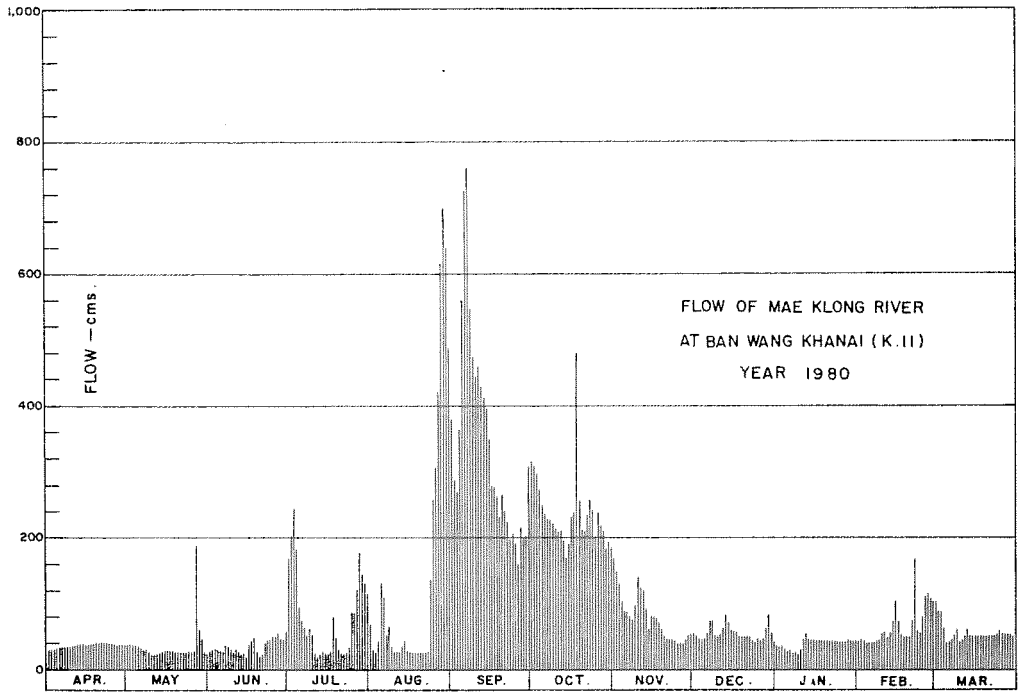
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 90 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY VACHIRALONGKORN DIVERSION DAM FOR IRRIGATION OF ABOUT 419,520 HECTARES ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.85	11.92	11.82	12.71	12.17	13.45	13.31	12.65	12.05	11.88	11.95	12.35	
2	11.85	11.92	11.85	12.88	11.81	13.20	13.30	12.56	12.04	11.88	11.99	12.27	
3	11.85	11.91	11.84	13.03	11.81	13.12	13.25	12.48	12.00	11.90	11.97	12.27	
4	11.86	11.90	11.84	12.60	12.01	13.61	13.12	12.31	11.99	11.87	11.93	12.08	
5	11.88	11.88	11.82	12.26	12.50	14.67	13.01	12.27	12.00	11.83	11.94	11.93	
6	11.89	11.86	11.82	12.19	12.39	14.91	12.98	12.27	12.08	11.84	11.93	11.94	
7	11.88	11.82	11.92	12.14	12.05	14.67	12.94	12.20	12.19	11.80	11.95	11.97	
8	11.88	11.84	11.91	12.02	12.13	14.14	12.94	12.19	12.19	11.83	11.95	12.08	
9	11.88	11.81	11.79	12.13	11.87	13.91	12.92	12.38	12.03	11.76	11.97	12.09	
10	11.89	11.77	11.74	12.04	11.81	13.81	12.88	12.55	12.03	11.85	12.05	11.95	
11	11.90	11.77	11.86	11.76	11.81	13.87	12.86	12.46	12.06	12.02	12.07	11.98	
12	11.91	11.78	11.81	11.72	11.81	13.73	12.88	12.44	12.15	12.06	12.02	12.04	
13	11.93	11.79	11.77	11.79	11.93	13.69	12.77	12.27	12.25	11.98	12.05	12.09	
14	11.92	11.81	11.80	11.82	11.98	13.62	12.68	12.08	12.18	11.97	12.22	12.02	
15	11.91	11.82	11.69	11.78	11.81	13.44	12.83	12.23	12.09	11.97	12.36	12.02	
16	11.91	11.83	11.94	11.78	11.81	13.16	12.98	12.23	12.09	11.96	12.22	12.03	
17	11.91	11.83	11.98	11.80	11.81	13.16	13.00	12.21	12.06	11.96	12.04	12.03	
18	11.92	11.83	12.02	12.23	11.81	13.08	13.93	12.18	12.02	11.96	12.01	12.03	
19	11.94	11.82	11.78	11.96	11.81	12.93	12.88	12.11	12.03	11.96	12.01	12.02	
20	11.93	11.82	11.71	11.83	11.81	13.11	12.88	12.02	12.03	11.96	12.01	12.02	
21	11.94	11.82	11.76	11.78	11.81	12.98	12.87	11.99	12.03	11.96	12.19	12.03	
22	11.94	11.82	11.97	11.78	11.81	12.93	12.98	12.00	12.03	11.96	12.68	12.03	
23	11.94	11.82	11.99	11.78	11.81	12.79	13.08	11.99	11.97	11.96	12.09	12.03	
24	11.94	11.83	11.98	11.88	12.93	12.85	13.01	11.98	11.95	11.95	12.05	12.05	
25	11.94	11.83	12.02	12.26	13.15	12.78	12.83	11.93	12.00	11.95	12.26	12.08	
26	11.93	11.82	12.02	12.25	13.39	12.65	13.00	11.94	11.97	11.95	12.40	12.04	
27	11.90	12.77	12.05	12.57	14.25	12.90	12.90	11.92	12.00	11.95	12.42	12.04	
28	11.92	12.12	11.99	12.73	14.61	12.83	12.88	12.00	12.13	11.98	12.38	12.04	
29	11.90	11.95	11.99	12.52	14.71	12.85	12.75	12.05	12.24	11.96		12.04	
30	11.91	11.81	12.03	12.49	14.39	13.29	12.79	12.05	12.09	11.96		12.03	
31		11.78		12.40	13.69		12.76		11.97	11.96		12.00	
MEAN	11.90	11.87	11.88	12.16	12.44	13.40	12.97	12.20	12.06	11.93	12.11	12.05	
MAX	11.94	12.77	12.05	13.03	14.71	14.91	13.93	12.65	12.25	12.06	12.68	12.35	14.91
MIN	11.85	11.77	11.69	11.72	11.81	12.65	12.68	11.92	11.95	11.76	11.93	11.93	11.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.03 M (MSL), AT HOURS, ON SEP 5, 1980
ZERO GAGE AT BOTTOM ELEVATION 11.93 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 21.90 M (MSL)
RIGHT BANK ELEVATION 21.90 M (MSL), DRAINAGE AREA 26449 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	31.0	38.3	28.0	173.7	71.3	349.0	313.5	161.3	54.0	34.0	41.7	101.7	
2	31.0	38.3	31.0	211.5	27.0	286.5	311.0	142.8	52.7	34.0	46.3	87.5	
3	31.0	37.2	30.0	246.0	27.0	267.3	298.8	126.6	47.5	36.0	44.0	87.5	
4	32.0	36.0	30.0	151.0	48.8	391.1	267.3	94.4	46.3	33.0	39.4	57.9	
5	34.0	34.0	28.0	85.9	130.5	686.8	241.3	87.5	47.5	29.0	40.6	39.4	
6	35.0	32.0	28.0	74.4	109.1	756.4	234.4	87.5	57.9	30.0	39.4	40.6	
7	34.0	28.0	38.3	66.7	54.0	686.8	225.2	76.0	74.4	26.0	41.7	44.0	
8	34.0	30.0	37.2	50.1	65.2	536.2	225.2	74.4	74.4	29.0	41.7	57.9	
9	34.0	27.0	25.1	65.2	33.0	472.2	220.6	107.3	51.4	22.6	44.0	59.2	
10	35.0	23.4	20.9	52.7	27.0	444.7	211.5	140.7	51.4	31.0	54.0	41.7	
11	36.0	23.4	32.0	22.6	27.0	461.2	207.0	122.7	55.3	50.1	56.6	45.2	
12	37.2	24.3	27.0	19.2	27.0	423.1	211.5	118.8	68.3	55.3	50.1	52.7	
13	39.4	25.1	23.4	25.1	39.4	412.3	186.9	87.5	84.3	45.2	54.0	59.2	
14	38.3	27.0	26.0	28.0	45.2	393.8	167.4	57.9	72.9	44.0	79.3	50.1	
15	37.2	28.0	16.8	24.3	27.0	346.4	200.3	81.0	59.2	44.0	103.6	50.1	
16	37.2	29.0	40.6	24.3	27.0	276.9	234.4	81.0	59.2	42.9	79.3	51.4	
17	37.2	29.0	45.2	26.0	27.0	276.9	239.0	77.7	55.3	42.9	52.7	51.4	
18	38.3	29.0	50.1	81.0	27.0	257.8	477.7	72.9	50.1	42.9	48.8	51.4	
19	40.6	28.0	24.3	42.9	27.0	222.9	211.5	62.1	51.4	42.9	48.8	50.1	
20	39.4	28.0	18.4	29.0	27.0	264.9	211.5	50.1	51.4	42.9	48.8	50.1	
21	40.6	28.0	22.6	24.3	27.0	234.4	209.2	46.3	51.4	42.9	74.4	51.4	
22	40.6	28.0	44.0	24.3	27.0	222.9	234.4	47.5	51.4	42.9	167.4	51.4	
23	40.6	28.0	46.3	24.3	27.0	191.3	257.8	46.3	44.0	42.9	59.2	51.4	
24	40.6	29.0	45.2	34.0	222.9	204.7	241.3	45.2	41.7	41.7	54.0	54.0	
25	40.6	29.0	50.1	85.9	274.5	189.1	200.3	39.4	47.5	41.7	85.9	57.9	
26	39.4	28.0	50.1	84.3	333.5	161.3	239.0	40.6	44.0	41.7	111.0	52.7	
27	36.0	186.9	54.0	144.8	567.0	216.0	216.0	38.3	47.5	41.7	114.9	52.7	
28	38.3	63.6	46.3	178.1	669.4	200.3	211.5	47.5	65.2	45.2	107.3	52.7	
29	36.0	41.7	46.3	134.6	698.4	204.7	182.5	54.0	82.6	42.9		52.7	
30	37.2	27.0	51.4	128.5	606.2	308.5	191.3	54.0	59.2	42.9		51.4	
31		24.3		111.0	412.3		184.7		44.0	42.9		47.5	
TOTAL	1101.7	1108.5	1056.6	2473.7	4758.7	10346.4	7264.0	2369.3	1743.4	1227.1	1828.9	1704.9	36983.2 CMSDAY
MEAN	36.7	35.8	35.2	79.8	153.5	344.9	234.3	79.0	56.2	39.6	65.3	55.0	101.3 CMS
MAX	40.6	186.9	54.0	246.0	698.4	756.4	477.7	161.3	84.3	55.3	167.4	101.7	756.4 CMS
MIN	31.0	23.4	16.8	19.2	27.0	161.3	167.4	38.3	41.7	22.6	39.4	39.4	16.8 CMS
RUNOFF	95.19	95.77	91.29	213.73	411.15	893.93	627.61	204.71	150.63	106.02	158.02	147.30	3195.34 MCM

MOMENTARY PEAK 791.20 CMS, AT 15:03 M (MSL), AT HOURS, ON SEP 5, 1980

RUNOFF YIELD 3.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 29.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

LAM TAPHOEN AT BAN THUNG NA NANG ROK, KANCHANABURI (K.12)

LOCATION — LAT. 14°-09'-15" N., LONG. 99°-25'-06" E., ON LEFT BANK ABOUT 50 METERS DOWNSTREAM FROM WAT THUNG NA NANG ROK, TAMBON LAT YA, AMPHOE MUANG, KANCHANABURI.

DRAINAGE AREA — 2,340 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 6.00 METERS FROM THE GAGE SITE.

ELEVATION — +8.930 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 — 1965-1968

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1968

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

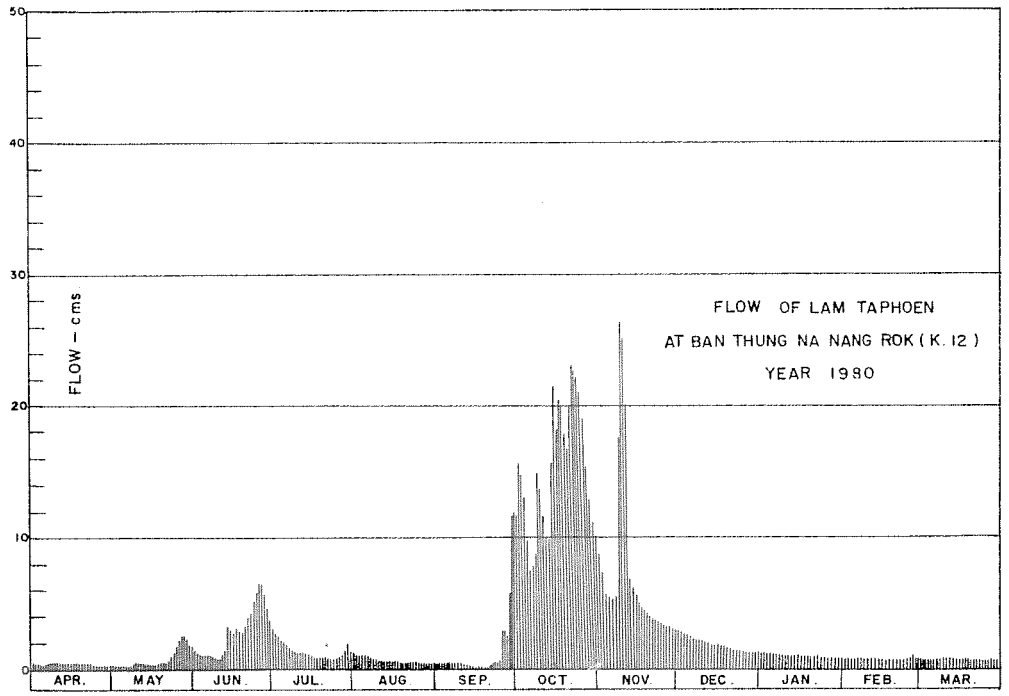
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 161 DISCHARGE MEASUREMENTS MADE IN 1968.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.41	0.87	1.30	0.79	0.49	2.66	2.31	1.22	0.79	0.64	0.62	
2	0.44	0.40	0.82	1.21	0.75	0.51	3.12	2.14	1.20	0.79	0.64	0.62	
3	0.42	0.39	0.76	1.13	0.74	0.54	2.99	2.00	1.19	0.78	0.65	0.62	
4	0.38	0.38	0.72	1.07	0.73	0.53	2.73	1.86	1.17	0.77	0.65	0.61	
5	0.39	0.37	0.70	1.01	0.71	0.52	2.32	1.75	1.14	0.76	0.65	0.60	
6	0.46	0.36	0.70	0.97	0.69	0.51	2.08	1.72	1.11	0.76	0.66	0.60	
7	0.48	0.35	0.69	0.93	0.65	0.50	2.07	1.73	1.09	0.74	0.67	0.60	
8	0.48	0.38	0.67	0.88	0.63	0.49	2.18	1.63	1.06	0.73	0.67	0.60	
9	0.49	0.40	0.62	0.83	0.62	0.49	3.06	4.30	1.05	0.72	0.66	0.60	
10	0.49	0.51	0.62	0.80	0.60	0.49	2.68	4.09	1.03	0.71	0.65	0.60	
11	0.48	0.50	0.63	0.77	0.60	0.49	2.63	3.34	1.00	0.72	0.64	0.60	
12	0.48	0.50	0.77	0.74	0.59	0.44	2.42	2.27	1.00	0.72	0.64	0.60	
13	0.48	0.49	0.85	0.74	0.56	0.39	2.40	1.97	0.97	0.72	0.64	0.60	
14	0.49	0.48	1.32	0.73	0.55	0.36	2.88	1.90	0.96	0.72	0.63	0.60	
15	0.49	0.46	1.25	0.72	0.55	0.37	3.77	1.80	0.95	0.70	0.62	0.60	
16	0.49	0.45	1.19	0.70	0.56	0.36	3.41	1.69	0.93	0.71	0.62	0.60	
17	0.51	0.45	1.29	0.68	0.54	0.35	3.67	1.61	0.92	0.70	0.61	0.60	
18	0.50	0.47	1.28	0.66	0.54	0.33	3.61	1.56	0.91	0.70	0.61	0.60	
19	0.50	0.50	1.23	0.64	0.54	0.31	3.36	1.54	0.91	0.69	0.61	0.59	
20	0.51	0.53	1.19	0.63	0.54	0.31	3.23	1.51	0.89	0.70	0.61	0.58	
21	0.52	0.53	1.39	0.63	0.53	0.40	3.62	1.43	0.87	0.68	0.61	0.57	
22	0.50	0.57	1.44	0.66	0.53	0.48	3.95	1.40	0.87	0.71	0.61	0.57	
23	0.48	0.69	1.52	0.65	0.53	0.47	3.88	1.40	0.85	0.68	0.61	0.57	
24	0.40	0.78	1.68	0.63	0.57	0.46	3.78	1.38	0.83	0.68	0.61	0.57	
25	0.39	0.95	1.80	0.63	0.55	0.62	3.66	1.35	0.81	0.67	0.61	0.56	
26	0.38	1.01	1.90	0.68	0.51	1.25	3.47	1.33	0.80	0.67	0.61	0.56	
27	0.38	1.13	1.91	0.75	0.52	1.25	3.17	1.33	0.79	0.66	0.73	0.56	
28	0.39	1.16	1.74	0.83	0.51	0.94	2.88	1.30	0.81	0.64	0.68	0.55	
29	0.41	1.12	1.53	1.00	0.50	2.07	2.67	1.28	0.81	0.64		0.55	
30	0.44	1.04	1.39	0.85	0.52	2.67	2.55	1.24	0.81	0.64		0.55	
31		0.95		0.83	0.31		2.44		0.79	0.64		0.55	
MEAN	0.46	0.60	1.15	0.82	0.58	0.65	3.01	1.87	0.96	0.71	0.64	0.59	
MAX	0.52	1.16	1.91	1.30	0.79	2.67	3.95	4.30	1.22	0.79	0.73	0.62	4.30
MIN	0.38	0.35	0.62	0.63	0.31	0.31	2.07	1.24	0.79	0.64	0.61	0.55	0.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.58 M (A.D), AT 6.00 HOURS, ON NOV 9, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 8.98 M (A.D)
RIGHT BANK ELEVATION 7.06 M (A.D), DRAINAGE AREA 2340 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.32	1.51	3.20	1.27	0.48	11.78	9.17	2.88	1.27	0.82	0.76	
2	0.38	0.30	1.36	2.84	1.15	0.52	15.52	7.98	2.80	1.27	0.82	0.76	
3	0.34	0.28	1.18	2.52	1.12	0.58	14.42	7.05	2.76	1.24	0.85	0.76	
4	0.26	0.26	1.06	2.28	1.09	0.56	12.34	6.16	2.68	1.21	0.85	0.73	
5	0.28	0.24	1.00	2.04	1.03	0.54	9.24	5.52	2.56	1.18	0.85	0.70	
6	0.42	0.22	1.00	1.88	0.97	0.52	7.57	5.36	2.44	1.18	0.88	0.70	
7	0.46	0.20	0.97	1.72	0.85	0.50	7.50	5.41	2.36	1.12	0.91	0.70	
8	0.46	0.26	0.91	1.54	0.79	0.48	8.26	4.86	2.24	1.09	0.91	0.70	
9	0.48	0.30	0.76	1.39	0.76	0.48	15.01	26.45	2.20	1.06	0.88	0.70	
10	0.48	0.52	0.76	1.30	0.70	0.48	11.94	24.35	2.12	1.03	0.85	0.70	
11	0.46	0.50	0.79	1.21	0.70	0.48	11.54	17.39	2.00	1.06	0.82	0.70	
12	0.46	0.50	1.21	1.12	0.68	0.38	9.95	8.89	2.00	1.06	0.82	0.70	
13	0.46	0.48	1.45	1.12	0.62	0.28	9.80	6.85	1.88	1.06	0.82	0.70	
14	0.48	0.46	3.30	1.09	0.60	0.22	13.54	6.40	1.84	1.06	0.79	0.70	
15	0.48	0.42	3.00	1.06	0.60	0.24	21.31	5.80	1.80	1.00	0.76	0.70	
16	0.48	0.40	2.76	1.00	0.62	0.22	17.99	5.19	1.72	1.03	0.76	0.70	
17	0.52	0.40	3.16	0.94	0.58	0.20	20.36	4.75	1.68	1.00	0.73	0.70	
18	0.50	0.44	3.12	0.88	0.58	0.16	19.79	4.50	1.64	1.00	0.73	0.70	
19	0.50	0.50	2.92	0.82	0.58	0.12	17.56	4.40	1.64	0.97	0.73	0.68	
20	0.52	0.56	2.76	0.79	0.58	0.12	16.45	4.25	1.57	1.00	0.73	0.66	
21	0.54	0.56	3.65	0.79	0.56	0.30	19.89	3.85	1.51	0.94	0.73	0.64	
22	0.50	0.64	3.90	0.88	0.56	0.46	23.02	3.70	1.51	1.03	0.73	0.64	
23	0.46	0.94	4.30	0.85	0.56	0.44	22.36	3.70	1.45	0.94	0.73	0.64	
24	0.30	1.24	5.14	0.79	0.64	0.42	21.41	3.60	1.39	0.94	0.73	0.64	
25	0.28	1.80	5.80	0.79	0.60	0.76	20.27	3.45	1.33	0.91	0.73	0.62	
26	0.26	2.04	6.40	0.94	0.52	3.00	18.53	3.35	1.30	0.91	0.73	0.62	
27	0.26	2.52	6.46	1.15	0.54	3.00	15.94	3.35	1.27	0.88	1.09	0.62	
28	0.28	2.64	5.47	1.39	0.52	1.76	13.54	3.20	1.33	0.82	0.94	0.60	
29	0.32	2.48	4.35	2.00	0.50	7.50	11.86	3.12	1.33	0.82		0.60	
30	0.38	2.16	3.65	1.45	0.54	11.86	10.92	2.96	1.33	0.82		0.60	
31		1.80		1.39	0.12		10.10		1.27	0.82		0.60	
TOTAL	12.42	26.38	84.10	43.16	21.53	37.06	459.71	205.01	57.83	31.72	22.72	20.97	1022.61 CMSDAY
MEAN	0.41	0.85	2.80	1.39	0.69	1.24	14.83	6.83	1.87	1.02	0.81	0.68	2.80 CMS
MAX	0.54	2.64	6.46	3.20	1.27	11.86	23.02	26.45	2.88	1.27	1.09	0.76	26.45 CMS
MIN	0.26	0.20	0.76	0.79	0.12	0.12	7.50	2.96	1.27	0.82	0.73	0.60	0.12 CMS
RUNOFF	1.073	2.279	7.266	3.729	1.860	3.202	39.719	17.713	4.997	2.741	1.963	1.812	88.353 MCM

MOMENTARY PEAK 40.18 CMS, AT 5.58 M (A.D), AT 6.00 HOURS, ON NOV 9, 1980

RUNOFF YIELD 1.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.17 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

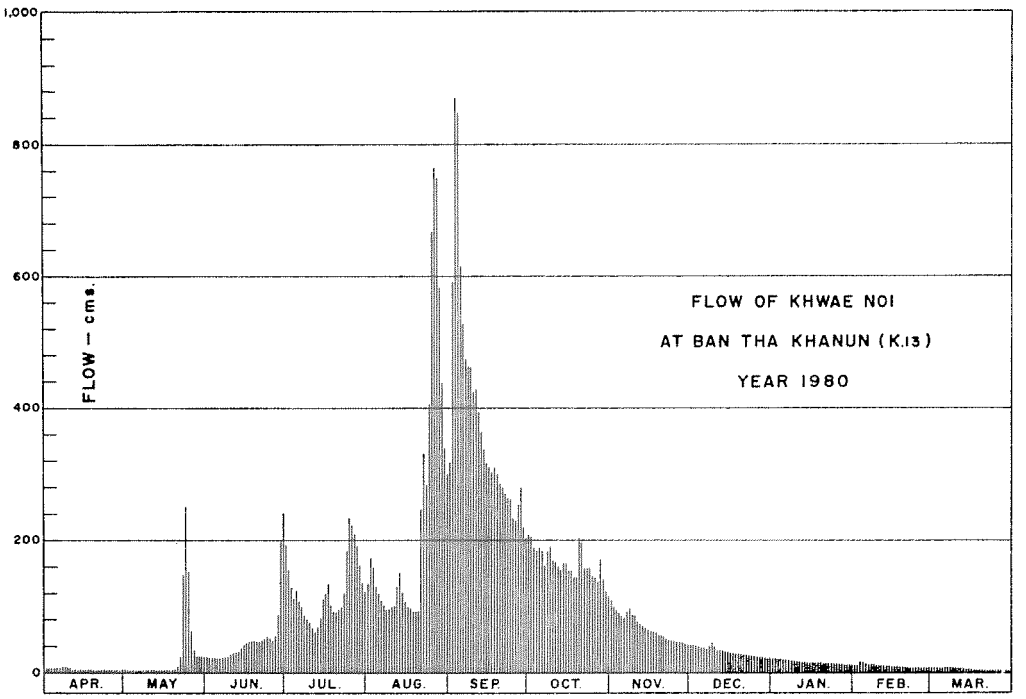
KHWAE NOI AT BAN THA KHANUN, KANCHANABURI (K.13)

LOCATION	LAT. 14°-43'-50" N., LONG. 98°-38'-32" E., ON RIGHT BANK AT POMPE VILLAGE, ABOUT 200 METERS DOWNSTREAM FROM WAT THA KHANUN, AMPHOE THONG PHA PHUM, KANCHANABURI.
DRAINAGE AREA	4,047 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+73.641 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR K.13 STATION OFFICE.
ELEVATION	+97.165 M. (M.S.L.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1971
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1971
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	75.52	75.49	75.92	77.95	77.16	79.01	78.10	77.13	76.23	75.92	75.73	75.62	
2	75.55	75.47	75.92	77.61	77.76	79.80	78.06	77.03	76.22	75.91	75.73	75.61	
3	75.55	75.46	75.92	77.29	77.60	82.58	77.89	76.96	76.20	75.91	75.83	75.62	
4	75.59	75.44	75.92	77.12	77.34	82.45	77.86	76.89	76.19	75.90	75.82	75.61	
5	75.60	75.43	75.92	77.25	77.20	81.27	77.90	76.85	76.17	75.89	75.82	75.60	
6	75.59	75.43	75.93	77.08	77.12	80.54	77.84	76.82	76.16	75.87	75.74	75.61	
7	75.60	75.42	75.93	77.01	77.02	80.08	77.62	76.78	76.15	75.87	75.74	75.61	
8	75.65	75.42	75.94	76.84	76.95	80.10	77.83	76.98	76.16	75.86	75.76	75.63	
9	75.63	75.42	75.96	76.76	76.98	80.09	77.92	76.86	76.28	75.86	75.74	75.64	
10	75.60	75.41	75.98	76.72	77.01	79.82	77.69	76.86	76.21	75.85	75.72	75.62	
11	75.54	75.44	76.03	76.56	76.98	79.87	77.69	76.72	76.14	75.85	75.71	75.62	
12	75.51	75.44	76.05	76.51	77.29	79.62	77.61	76.67	76.12	75.84	75.70	75.61	
13	75.49	75.46	76.08	76.56	77.51	79.39	77.57	76.62	76.11	75.83	75.69	75.61	
14	75.47	75.49	76.11	76.70	77.26	79.17	77.66	76.59	76.09	75.82	75.68	75.61	
15	75.47	75.52	76.24	77.09	77.09	79.01	77.66	76.56	76.08	75.77	75.68	75.60	
16	75.47	75.51	76.27	77.21	77.01	78.95	77.55	76.52	76.07	75.82	75.67	75.60	
17	75.54	75.48	76.28	77.33	76.98	78.88	77.57	76.50	76.06	75.82	75.67	75.58	
18	75.60	75.49	76.29	77.06	76.90	78.97	77.46	76.46	76.05	75.81	75.66	75.57	
19	75.65	75.50	76.30	76.91	76.94	78.89	77.47	76.44	76.04	75.80	75.65	75.55	
20	75.60	75.50	76.30	76.88	76.94	78.75	78.05	76.43	76.04	75.79	75.64	75.54	
21	75.57	75.69	76.31	76.98	78.40	78.72	77.96	76.41	76.02	75.78	75.64	75.53	
22	75.52	76.04	76.32	77.00	79.15	78.64	77.58	76.38	76.00	75.78	75.63	75.51	
23	75.50	77.37	76.35	77.20	78.77	78.59	77.61	76.35	75.99	75.78	75.62	75.50	
24	75.48	78.45	76.41	77.78	79.26	78.53	77.60	76.32	75.98	75.77	75.61	75.49	
25	75.46	77.25	76.36	78.33	81.38	78.32	77.48	76.32	75.97	75.77	75.60	75.48	
26	75.45	76.46	76.30	78.23	82.00	78.29	77.45	76.31	75.97	75.76	75.59	75.48	
27	75.45	76.14	76.42	78.10	81.90	78.47	77.38	76.30	75.96	75.76	75.59	75.48	
28	75.46	75.95	76.64	77.89	80.89	78.73	77.73	76.29	75.95	75.74	75.59	75.48	
29	75.47	75.92	77.99	77.56	79.90	78.24	77.40	76.27	75.94	75.73		75.47	
30	75.47	75.92	78.55	77.13	79.32	78.04	77.25	76.25	75.93	75.73		75.47	
31		75.92		77.03	78.91		77.17		75.92	75.72		75.46	
MEAN	75.53	75.82	76.30	77.22	78.16	79.39	77.66	76.60	76.08	75.82	75.69	75.56	
MAX	75.65	78.45	78.55	78.33	82.00	82.58	78.10	77.13	76.28	75.92	75.83	75.64	82.58
MIN	75.45	75.41	75.92	76.51	76.90	78.04	77.17	76.25	75.92	75.72	75.59	75.46	75.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 82.99 M (MSL), AT 18.00 HOURS, ON SEP 3, 1980
ZERO GAGE AT BOTTOM ELEVATION 73.64 M (MSL), RIVER BED M (MSL).
LEFT BANK ELEVATION 95.67 M (MSL)
RIGHT BANK ELEVATION 96.76 M (MSL), DRAINAGE AREA 4047 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.8	3.6	23.2	195.0	116.0	317.2	211.0	113.0	44.1	23.2	13.2	8.8	
2	6.0	2.8	23.2	161.0	176.0	422.0	206.6	103.0	43.4	22.6	13.2	8.4	
3	6.0	2.4	23.2	129.0	160.0	870.4	189.0	96.8	42.0	22.6	17.8	8.8	
4	7.6	1.6	23.2	112.0	134.0	847.0	186.0	91.2	41.3	22.0	17.2	8.4	
5	8.0	1.2	23.2	125.0	120.0	645.2	190.0	88.0	39.9	21.4	17.2	8.0	
6	7.6	1.2	23.8	108.0	112.0	528.4	184.0	85.6	39.2	20.2	13.6	8.4	
7	8.0	0.8	23.8	101.0	102.0	461.2	162.0	82.6	38.5	20.2	13.6	8.4	
8	10.0	0.8	24.4	87.2	96.0	464.0	183.0	98.4	39.2	19.6	14.4	9.2	
9	9.2	0.8	25.6	81.2	98.4	462.6	192.0	88.8	47.6	19.6	13.6	9.6	
10	8.0	0.4	26.8	78.4	101.0	424.8	169.0	88.8	42.7	19.0	12.8	8.8	
11	5.6	1.6	30.1	67.2	98.4	431.8	169.0	78.4	37.8	19.0	12.4	8.8	
12	4.4	1.6	31.5	63.7	129.0	396.8	161.0	74.9	36.4	18.4	12.0	8.4	
13	3.6	2.4	33.6	67.2	151.0	364.7	157.0	71.4	35.7	17.8	11.6	8.4	
14	2.8	3.6	35.7	77.0	126.0	336.4	166.0	69.3	34.3	17.2	11.2	8.4	
15	2.8	4.8	44.8	109.0	109.0	317.2	166.0	67.2	33.6	14.8	11.2	8.0	
16	2.8	4.4	46.9	121.0	101.0	310.0	155.0	64.4	32.9	17.2	10.8	8.0	
17	5.6	3.2	47.6	133.0	98.4	301.6	157.0	63.0	32.2	17.2	10.8	7.2	
18	8.0	3.6	48.3	106.0	92.0	312.4	146.0	60.2	31.5	16.6	10.4	6.8	
19	10.0	4.0	49.0	92.8	95.2	302.8	147.0	58.8	30.8	16.0	10.0	6.0	
20	8.0	4.0	49.0	90.4	95.2	286.0	205.5	58.1	30.8	15.6	9.6	5.6	
21	6.8	11.6	49.7	98.4	244.0	282.4	196.0	56.7	29.4	15.2	9.6	5.2	
22	4.8	30.8	50.4	100.0	334.0	272.8	158.0	54.6	28.0	15.2	9.2	4.4	
23	4.0	137.0	52.5	120.0	288.4	266.8	161.0	52.5	27.4	15.2	8.8	4.0	
24	3.2	250.0	56.7	178.0	347.8	259.6	160.0	50.4	26.8	14.8	8.4	3.6	
25	2.4	125.0	53.2	236.3	662.8	235.2	148.0	50.4	26.2	14.8	8.0	3.2	
26	2.0	60.2	49.0	225.3	766.0	231.9	145.0	49.7	26.2	14.4	7.6	3.2	
27	2.0	37.8	57.4	211.0	748.0	252.4	138.0	49.0	25.6	14.4	7.6	3.2	
28	2.4	25.0	72.8	189.0	584.4	283.6	173.0	48.3	25.0	13.6	7.6	3.2	
29	2.8	23.2	199.0	156.0	436.0	226.4	140.0	46.9	24.4	13.2		2.8	
30	2.8	23.2	262.0	113.0	355.6	204.4	125.0	45.5	23.8	13.2		2.8	
31		23.2		103.0	305.2		117.0		23.2	12.8		2.4	
TOTAL	162.0	795.8	1559.6	3835.1	7382.8	11318.0	5163.1	2105.9	1039.9	537.0	323.4	200.4	34423.0 CMSDAY
MEAN	5.4	25.7	52.0	123.7	238.2	377.3	166.6	70.2	33.5	17.3	11.5	6.5	94.3 CMS
MAX	10.0	250.0	262.0	236.3	766.0	870.4	211.0	113.0	47.6	23.2	17.8	9.6	870.4 CMS
MIN	2.0	0.4	23.2	63.7	92.0	204.4	117.0	45.5	23.2	12.8	7.6	2.4	0.4 CMS
RUNOFF	14.00	68.76	134.75	331.35	637.87	977.87	446.09	181.95	89.85	46.40	27.94	17.31	2974.14 MCM

MOMENTARY PEAK 944.20 CMS, AT 82.99 M (MSL), AT 18.00 HOURS, ON SEP 3, 1980

RUNOFF YIELD 23.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 233.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

LAM PHACHI AT BAN BO, RATCHABURI (K.17)

LOCATION — LAT. 13°-32'-41" N., LONG. 99°-21'-22" E., ON LEFT BANK OPPOSITE TO THE 'SAI NGAM' FRONTIER POLICE STATION, TAMBON SUAN PHUNG, AMPHOE CHUM BUNG, RATCHABURI.

DRAINAGE AREA — 1,355 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ALONG THE MEASURING LINE.

ELEVATION — +11.799 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

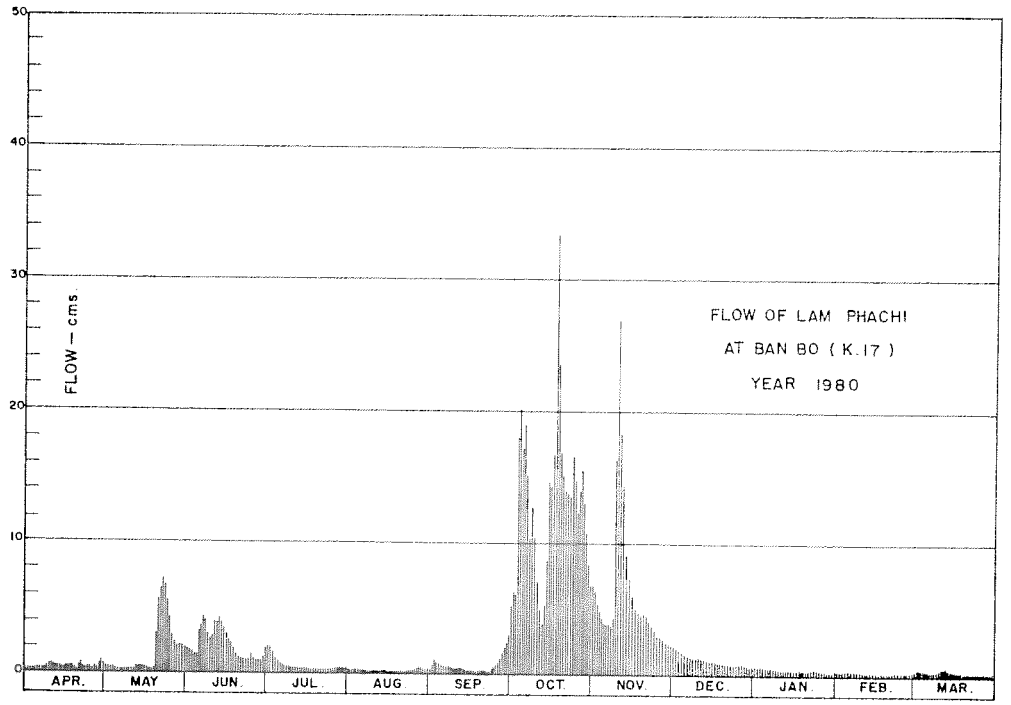
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 114 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.23	-0.02	0.25	0.30	-0.08	-0.09	0.69	0.89	0.29	0.01	-0.12	-0.07	
2	-0.19	-0.04	0.21	0.28	-0.09	0.08	0.85	0.80	0.28	0.01	-0.12	-0.03	
3	-0.12	-0.03	0.22	0.21	-0.10	0.08	0.78	0.71	0.25	0.00	-0.12	-0.04	
4	-0.12	-0.11	0.16	0.14	-0.09	0.06	1.62	0.63	0.24	0.00	-0.12	-0.07	
5	-0.15	-0.12	0.43	0.08	-0.10	0.03	1.39	0.57	0.22	-0.01	-0.11	-0.09	
6	-0.16	-0.12	0.55	0.03	-0.12	0.00	1.57	0.57	0.20	-0.01	-0.11	-0.10	
7	-0.17	-0.13	0.63	0.01	-0.14	-0.02	1.38	0.56	0.18	-0.02	-0.11	-0.11	
8	-0.06	-0.16	0.49	-0.02	-0.15	-0.02	1.09	0.50	0.17	-0.03	-0.12	-0.12	
9	-0.02	-0.17	0.36	-0.03	-0.16	-0.06	1.28	1.12	0.16	-0.04	-0.14	-0.11	
10	0.01	-0.15	0.41	-0.05	-0.16	-0.06	1.02	1.88	0.16	-0.05	-0.12	-0.02	
11	0.01	-0.17	0.57	-0.06	-0.18	-0.04	0.80	1.55	0.15	-0.06	-0.13	-0.08	
12	-0.05	-0.05	0.55	-0.05	-0.18	-0.05	0.64	1.27	0.14	-0.05	-0.14	-0.01	
13	-0.03	-0.05	0.61	-0.04	-0.17	-0.08	0.54	1.04	0.13	-0.06	-0.14	-0.02	
14	-0.10	-0.02	0.56	-0.05	-0.14	-0.10	0.84	0.98	0.12	-0.07	-0.16	-0.05	
15	-0.06	-0.06	0.49	-0.06	-0.14	-0.11	1.38	0.85	0.11	-0.08	-0.17	-0.07	
16	-0.04	-0.09	0.41	-0.07	-0.18	-0.12	1.36	0.77	0.11	-0.08	-0.17	-0.08	
17	-0.02	-0.10	0.37	-0.08	-0.19	-0.13	1.47	0.69	0.10	-0.05	-0.17	-0.09	
18	-0.04	-0.12	0.28	-0.10	-0.20	-0.14	2.10	0.66	0.09	-0.08	-0.18	-0.12	
19	-0.08	-0.12	0.21	-0.11	-0.21	-0.15	1.51	0.65	0.08	-0.08	-0.19	-0.13	
20	-0.10	0.39	0.15	-0.12	-0.20	-0.16	1.45	0.66	0.07	-0.09	-0.19	-0.14	
21	0.02	0.72	0.12	-0.13	-0.19	-0.16	1.35	0.62	0.06	-0.09	-0.19	-0.16	
22	-0.05	0.87	0.09	-0.14	-0.19	-0.15	1.34	0.58	0.05	-0.09	-0.19	-0.17	
23	-0.11	0.91	0.10	-0.14	-0.18	-0.13	1.32	0.53	0.05	-0.09	-0.20	-0.18	
24	-0.05	0.79	0.10	-0.13	-0.17	-0.07	1.47	0.48	0.04	-0.08	-0.21	-0.20	
25	-0.07	0.51	0.19	-0.12	-0.15	-0.03	1.38	0.45	0.04	-0.10	-0.22	-0.20	
26	-0.11	0.39	0.13	-0.10	-0.11	0.05	1.22	0.42	0.03	-0.11	-0.22	-0.21	
27	-0.01	0.34	0.09	-0.07	-0.06	0.14	1.42	0.39	0.03	-0.11	-0.20	-0.21	
28	-0.11	0.26	0.08	-0.05	-0.03	0.20	1.32	0.38	0.02	-0.11	-0.18	-0.19	
29	0.06	0.32	0.10	-0.05	-0.05	0.28	1.12	0.34	0.02	-0.11		-0.19	
30	-0.01	0.26	0.25	-0.06	-0.08	0.39	0.96	0.31	0.01	-0.12		-0.21	
31		0.29		-0.07	-0.10		0.87		0.01	-0.13		-0.21	
MEAN	-0.07	0.14	0.31	-0.03	-0.14	-0.02	1.21	0.73	0.12	-0.06	-0.16	-0.12	
MAX	0.06	0.91	0.63	0.30	-0.03	0.39	2.10	1.88	0.29	0.01	-0.11	-0.01	2.10
MIN	-0.23	-0.17	0.08	-0.14	-0.21	-0.16	0.54	0.31	0.01	-0.13	-0.22	-0.21	-0.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.33 M (A.D), AT 5.00 HOURS, ON OCT 18, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.70 M (A.D)
LEFT BANK ELEVATION 11.92 M (A.D)
RIGHT BANK ELEVATION 8.79 M (A.D), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.64	1.90	2.20	0.46	0.43	4.92	6.88	2.14	0.74	0.35	0.49	
2	0.17	0.58	1.66	2.08	0.43	1.02	6.42	5.85	2.08	0.74	0.35	0.61	
3	0.35	0.61	1.72	1.66	0.40	1.02	5.68	5.08	1.90	0.70	0.35	0.58	
4	0.35	0.37	1.40	1.30	0.43	0.94	20.20	4.44	1.84	0.70	0.35	0.49	
5	0.27	0.35	3.01	1.02	0.40	0.82	14.89	3.99	1.72	0.67	0.37	0.43	
6	0.25	0.35	3.85	0.82	0.35	0.70	18.99	3.99	1.60	0.67	0.37	0.40	
7	0.22	0.32	4.44	0.74	0.30	0.64	14.69	3.92	1.50	0.64	0.37	0.37	
8	0.52	0.25	3.43	0.64	0.27	0.64	9.50	3.50	1.45	0.61	0.35	0.35	
9	0.64	0.22	2.56	0.61	0.25	0.52	12.68	9.96	1.40	0.58	0.30	0.37	
10	0.74	0.27	2.87	0.55	0.25	0.52	8.49	27.09	1.40	0.55	0.35	0.64	
11	0.74	0.22	3.99	0.52	0.20	0.58	5.85	18.52	1.35	0.52	0.32	0.46	
12	0.55	0.55	3.85	0.55	0.20	0.55	4.52	12.49	1.30	0.55	0.30	0.67	
13	0.61	0.55	4.28	0.58	0.22	0.46	3.78	8.78	1.25	0.52	0.30	0.64	
14	0.40	0.64	3.92	0.55	0.30	0.40	6.31	7.96	1.20	0.49	0.25	0.55	
15	0.52	0.52	3.43	0.52	0.30	0.37	14.69	6.42	1.15	0.46	0.22	0.49	
16	0.58	0.43	2.87	0.49	0.20	0.35	14.28	5.59	1.15	0.46	0.22	0.46	
17	0.64	0.40	2.62	0.46	0.17	0.32	16.67	4.92	1.10	0.55	0.22	0.43	
18	0.58	0.35	2.08	0.40	0.15	0.30	33.45	4.68	1.06	0.46	0.20	0.35	
19	0.46	0.35	1.66	0.37	0.13	0.27	17.58	4.60	1.02	0.46	0.17	0.32	
20	0.40	2.74	1.35	0.35	0.15	0.25	16.22	4.68	0.98	0.43	0.17	0.30	
21	0.78	5.17	1.20	0.32	0.17	0.25	14.07	4.36	0.94	0.43	0.17	0.25	
22	0.55	6.65	1.06	0.30	0.17	0.27	13.87	4.06	0.90	0.43	0.17	0.22	
23	0.37	7.12	1.10	0.30	0.20	0.32	13.46	3.71	0.90	0.43	0.15	0.20	
24	0.55	5.76	1.10	0.32	0.22	0.49	16.67	3.36	0.86	0.46	0.13	0.15	
25	0.49	3.57	1.55	0.35	0.27	0.61	14.69	3.15	0.86	0.40	0.12	0.15	
26	0.37	2.74	1.25	0.40	0.37	0.90	11.57	2.94	0.82	0.37	0.12	0.13	
27	0.67	2.44	1.06	0.49	0.52	1.30	15.55	2.74	0.82	0.37	0.15	0.13	
28	0.37	1.96	1.02	0.55	0.61	1.60	13.46	2.68	0.78	0.37	0.20	0.17	
29	0.94	2.32	1.10	0.55	0.55	2.08	9.96	2.44	0.78	0.37		0.17	
30	0.67	1.96	1.90	0.52	0.46	2.74	7.72	2.26	0.74	0.35		0.13	
31		2.14		0.49	0.40		6.65		0.74	0.32		0.13	
TOTAL	14.85	52.54	69.23	21.00	9.50	21.66	387.48	185.04	37.73	15.80	7.09	11.23	833.15 CMSDAY
MEAN	0.49	1.69	2.31	0.68	0.31	0.72	12.50	6.17	1.22	0.51	0.25	0.36	2.28 CMS
MAX	0.94	7.12	4.44	2.20	0.61	2.74	33.45	27.09	2.14	0.74	0.37	0.67	33.45 CMS
MIN	0.10	0.22	1.02	0.30	0.13	0.25	3.78	2.26	0.74	0.32	0.12	0.13	0.10 CMS
RUNOFF	1.283	4.539	5.981	1.814	0.821	1.871	33.478	15.987	3.260	1.365	0.613	0.970	71.984 MCM

MOMENTARY PEAK 40.48 CMS, AT 2.33 M (A.D), AT 5.00 HOURS, ON OCT 18, 1980

RUNOFF YIELD 1.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 29.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

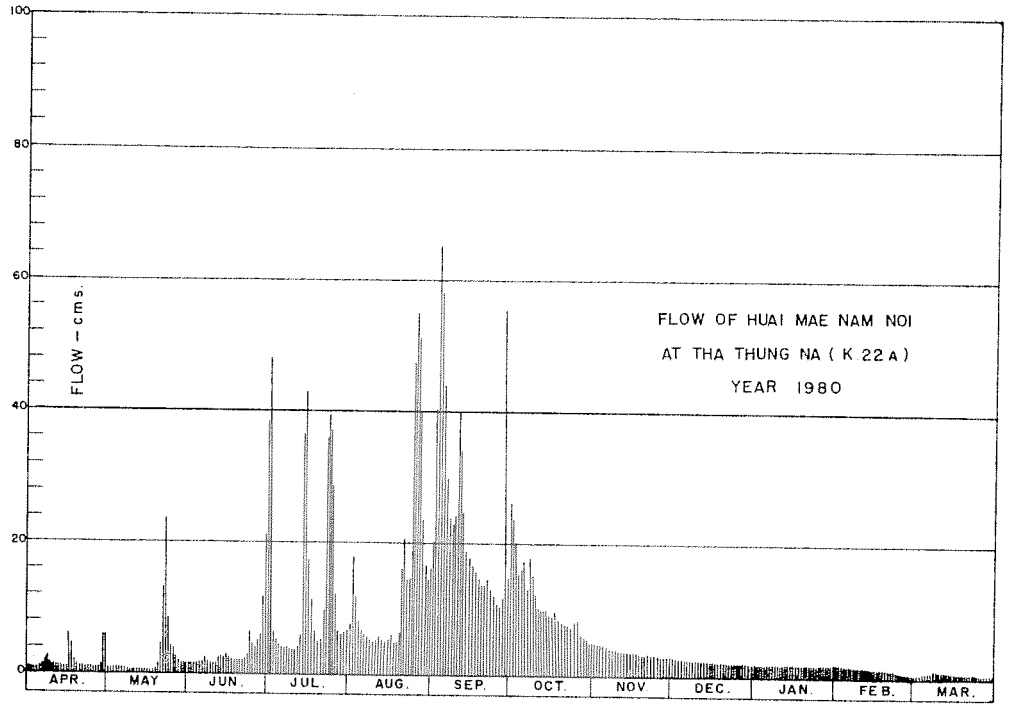
HUAI MAE NAM NOI AT THA THUNG NA, KANCHANABURI (K.22A)

LOCATION	LAT. 14°-26'-44" N., LONG. 98°-48'-08" E., ON LEFT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM K.22 STATION, TAMBON THA THUNG NA, AMPHOE SAI YOK, KANCHANABURI.
DRAINAGE AREA	321 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+66.70 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE METEOROLOGICAL STATION.
ELEVATION	+76.874 M. (M.S.L.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 69 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	67.21	67.23	67.28	68.78	67.65	68.10	68.29	67.51	67.38	67.32	67.32	67.21	
2	67.22	67.22	67.28	68.11	68.04	68.69	68.18	67.51	67.38	67.32	67.32	67.21	
3	67.23	67.21	67.28	67.56	67.79	69.12	67.96	67.50	67.37	67.32	67.32	67.21	
4	67.24	67.21	67.28	67.54	67.65	68.93	67.96	67.49	67.37	67.32	67.31	67.21	
5	67.25	67.21	67.28	67.47	67.59	68.71	68.02	67.49	67.37	67.32	67.31	67.21	
6	67.27	67.20	67.29	67.46	67.57	68.39	67.91	67.48	67.37	67.32	67.30	67.23	
7	67.30	67.19	67.37	67.46	67.55	68.22	67.85	67.47	67.37	67.32	67.30	67.23	
8	67.37	67.19	67.29	67.45	67.54	68.16	68.04	67.46	67.36	67.32	67.29	67.26	
9	67.25	67.19	67.29	67.44	67.51	68.22	67.92	67.46	67.36	67.32	67.28	67.25	
10	67.24	67.19	67.28	67.43	67.51	68.28	67.86	67.45	67.35	67.32	67.27	67.23	
11	67.24	67.19	67.28	67.45	67.55	68.61	67.78	67.45	67.35	67.32	67.27	67.22	
12	67.24	67.19	67.35	67.46	67.55	68.30	67.72	67.44	67.35	67.32	67.27	67.23	
13	67.23	67.19	67.36	67.53	67.52	68.15	67.75	67.43	67.35	67.32	67.26	67.23	
14	67.22	67.19	67.37	68.54	67.51	68.05	67.74	67.43	67.35	67.32	67.26	67.22	
15	67.22	67.19	67.40	68.67	67.51	68.03	67.71	67.43	67.34	67.32	67.26	67.22	
16	67.55	67.20	67.36	68.04	67.58	68.01	67.70	67.43	67.34	67.32	67.25	67.21	
17	67.36	67.20	67.34	67.84	67.54	67.97	67.74	67.43	67.34	67.32	67.25	67.21	
18	67.30	67.20	67.33	67.65	67.49	67.95	67.70	67.42	67.34	67.32	67.25	67.20	
19	67.25	67.22	67.33	67.54	67.56	67.90	67.67	67.42	67.34	67.32	67.24	67.20	
20	67.24	67.25	67.33	67.50	67.84	67.88	67.67	67.42	67.34	67.32	67.24	67.20	
21	67.23	67.46	67.34	67.51	68.13	67.92	67.65	67.41	67.34	67.32	67.24	67.20	
22	67.23	67.93	67.35	67.69	67.96	67.93	67.64	67.41	67.33	67.32	67.24	67.20	
23	67.22	68.21	67.40	68.47	67.88	67.84	67.63	67.41	67.33	67.32	67.23	67.20	
24	67.22	67.62	67.59	68.59	68.09	67.85	67.64	67.41	67.33	67.32	67.22	67.19	
25	67.22	67.46	67.48	68.51	68.65	67.78	67.68	67.40	67.33	67.32	67.22	67.19	
26	67.21	67.44	67.43	67.90	68.93	67.75	67.61	67.40	67.32	67.32	67.21	67.19	
27	67.21	67.35	67.53	67.62	68.61	67.82	67.57	67.40	67.32	67.32	67.21	67.19	
28	67.23	67.31	67.57	67.58	68.20	68.93	67.56	67.40	67.32	67.32	67.20	67.19	
29	67.56	67.30	67.94	67.58	68.04	67.97	67.54	67.39	67.32	67.32		67.19	
30	67.23	67.28	68.15	67.62	67.96	67.91	67.52	67.39	67.32	67.32		67.19	
31		67.28		67.58	67.92		67.51		67.32	67.32		67.19	
MEAN	67.27	67.31	67.40	67.79	67.82	68.18	67.77	67.44	67.35	67.32	67.26	67.21	
MAX	67.56	68.21	68.15	68.78	68.93	69.12	68.29	67.51	67.38	67.32	67.32	67.26	69.12
MIN	67.21	67.19	67.28	67.43	67.49	67.75	67.51	67.39	67.32	67.32	67.20	67.19	67.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 69.32 M (MSL), AT 21.00 HOURS, ON JUL 14, 1980
ZERO GAGE AT BOTTOM ELEVATION 66.70 M (MSL), RIVER BED 67.10 M (MSL)
LEFT BANK ELEVATION 71.80 M (MSL)
RIGHT BANK ELEVATION 71.05 M (MSL), DRAINAGE AREA 321 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.91	1.13	1.68	47.86	7.80	19.80	26.63	5.08	2.94	2.16	2.16	0.91	
2	1.02	1.02	1.68	20.15	17.94	43.64	22.60	5.08	2.94	2.16	2.16	0.91	
3	1.13	0.91	1.68	5.98	10.97	64.84	15.54	4.90	2.81	2.16	2.16	0.91	
4	1.24	0.91	1.68	5.62	7.80	55.20	15.54	4.73	2.81	2.16	2.03	0.91	
5	1.35	0.91	1.68	4.39	6.52	44.57	17.32	4.73	2.81	2.16	2.03	0.91	
6	1.57	0.80	1.79	4.22	6.16	30.60	14.09	4.56	2.81	2.16	1.90	1.13	
7	1.90	0.72	2.81	4.22	5.80	24.04	12.50	4.39	2.81	2.16	1.90	1.13	
8	2.81	0.72	1.79	4.05	5.62	21.90	17.94	4.22	2.68	2.16	1.79	1.46	
9	1.35	0.72	1.79	3.88	5.08	24.04	14.38	4.22	2.68	2.16	1.68	1.35	
10	1.24	0.72	1.68	3.71	5.08	26.26	12.76	4.05	2.55	2.16	1.57	1.13	
11	1.24	0.72	1.68	4.05	5.80	39.96	10.74	4.05	2.55	2.16	1.57	1.02	
12	1.24	0.72	2.55	4.22	5.80	27.00	9.36	3.88	2.55	2.16	1.57	1.13	
13	1.13	0.72	2.68	5.44	5.26	21.55	10.05	3.71	2.55	2.16	1.46	1.13	
14	1.02	0.72	2.81	36.92	5.08	18.25	9.82	3.71	2.55	2.16	1.46	1.02	
15	1.02	0.72	3.20	42.72	5.08	17.63	9.13	3.71	2.42	2.16	1.46	1.02	
16	5.80	0.80	2.68	17.94	6.34	17.01	8.90	3.71	2.42	2.16	1.35	0.91	
17	2.68	0.80	2.42	12.24	5.62	15.83	9.82	3.71	2.42	2.16	1.35	0.91	
18	1.90	0.80	2.29	7.80	4.73	15.25	8.90	3.54	2.42	2.16	1.35	0.80	
19	1.35	1.02	2.29	5.62	5.98	13.80	8.24	3.54	2.42	2.16	1.24	0.80	
20	1.24	1.35	2.29	4.90	12.24	13.28	8.24	3.54	2.42	2.16	1.24	0.80	
21	1.13	4.22	2.42	5.08	20.85	14.38	7.80	3.37	2.42	2.16	1.24	0.80	
22	1.13	14.67	2.55	8.68	15.54	14.67	7.58	3.37	2.29	2.16	1.24	0.80	
23	1.02	23.67	3.20	33.94	13.28	12.24	7.36	3.37	2.29	2.16	1.13	0.80	
24	1.02	7.14	6.52	39.07	19.49	12.50	7.58	3.37	2.29	2.16	1.02	0.72	
25	1.02	4.22	4.56	35.63	41.80	10.74	8.46	3.20	2.29	2.16	1.02	0.72	
26	0.91	3.88	3.71	13.80	55.20	10.05	6.92	3.20	2.16	2.16	0.91	0.72	
27	0.91	2.55	5.44	7.14	39.96	11.72	6.16	3.20	2.16	2.16	0.91	0.72	
28	1.13	2.03	6.16	6.34	23.30	55.20	5.98	3.20	2.16	2.16	0.80	0.72	
29	5.98	1.90	14.96	6.34	17.94	15.83	5.62	3.07	2.16	2.16		0.72	
30	1.13	1.68	21.55	7.14	15.54	14.09	5.26	3.07	2.16	2.16		0.72	
31		1.68		6.34	14.38		5.08		2.16	2.16		0.72	
TOTAL	48.52	84.57	114.22	415.43	417.98	725.87	336.30	115.48	77.10	66.96	41.70	28.45	2472.58 CMSDAY
MEAN	1.62	2.73	3.81	13.40	13.48	24.20	10.85	3.85	2.49	2.16	1.49	0.92	6.77 CMS
MAX	5.98	23.67	21.55	47.86	55.20	64.84	26.63	5.08	2.94	2.16	2.16	1.46	64.84 CMS
MIN	0.91	0.72	1.68	3.71	4.73	10.05	5.08	3.07	2.16	2.16	0.80	0.72	0.72 CMS
RUNOFF	4.192	7.307	9.869	35.893	36.113	62.715	29.056	9.977	6.661	5.785	3.603	2.458	213.630 MCM

MOMENTARY PEAK 75.38 CMS, AT 69.32 M (MSL), AT 21.00 HOURS, ON JUL 14, 1980

RUNOFF YIELD 21.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 234.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

LAM TAPHOEN AT BAN WANG YAI, KANCHANABURI (K.27)

LOCATION — LAT. 14°-20'-14" N., LONG. 99°-29'-22" E., ON LEFT BANK ABOUT 3 KILOMETERS UPSTREAM FROM BAN LAT YA, AMPHOE BO PHLOI, KANCHANABURI.

DRAINAGE AREA — 1,921 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — IN THE VICINITY OF METEOROLOGICAL STATION.

ELEVATION — +6.250 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1968 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

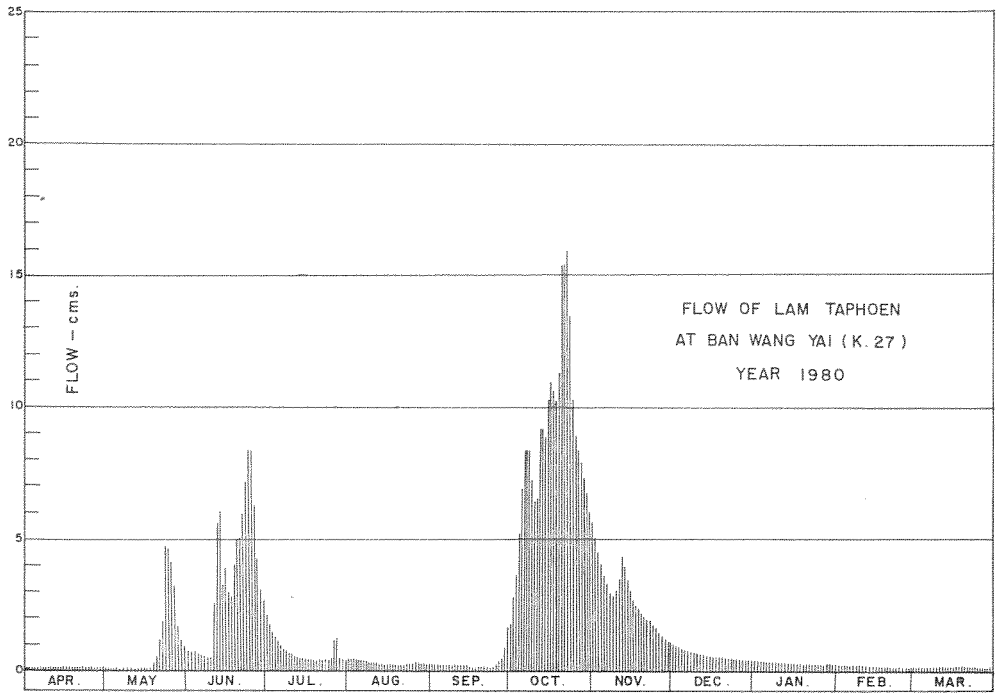
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	0.54	1.10	1.64	0.92	0.79	1.50	2.72	1.26	0.86	0.72	0.64	
2	0.54	0.53	1.06	1.53	0.92	0.78	1.84	2.56	1.23	0.84	0.73	0.67	
3	0.55	0.52	1.09	1.44	0.91	0.76	2.15	2.45	1.19	0.84	0.72	0.68	
4	0.56	0.50	1.06	1.36	0.90	0.75	2.42	2.33	1.17	0.83	0.72	0.67	
5	0.58	0.49	1.05	1.29	0.89	0.76	2.79	2.22	1.16	0.83	0.71	0.66	
6	0.59	0.49	1.01	1.23	0.87	0.75	3.04	2.12	1.12	0.82	0.71	0.68	
7	0.57	0.50	1.00	1.18	0.85	0.77	3.28	2.04	1.10	0.82	0.71	0.68	
8	0.69	0.48	0.99	1.14	0.84	0.76	3.27	1.97	1.09	0.82	0.71	0.69	
9	0.64	0.46	0.98	1.10	0.83	0.76	3.06	1.93	1.07	0.82	0.71	0.68	
10	0.60	0.45	0.97	1.06	0.82	0.76	2.92	2.04	1.05	0.80	0.71	0.67	
11	0.62	0.46	2.10	1.03	0.80	0.75	2.96	2.16	1.03	0.80	0.71	0.66	
12	0.63	0.50	2.74	1.00	0.81	0.74	3.24	2.38	1.02	0.80	0.70	0.64	
13	0.61	0.57	2.85	0.98	0.80	0.75	3.38	2.30	1.01	0.80	0.70	0.63	
14	0.61	0.56	2.07	0.96	0.80	0.72	3.34	2.16	1.01	0.81	0.69	0.64	
15	0.61	0.54	2.27	0.95	0.79	0.68	3.47	2.02	1.01	0.80	0.69	0.64	
16	0.61	0.52	2.11	0.94	0.78	0.65	3.56	1.92	0.99	0.78	0.67	0.66	
17	0.63	0.50	1.92	0.93	0.77	0.65	3.54	1.84	0.98	0.78	0.66	0.71	
18	0.63	0.49	1.95	0.91	0.73	0.65	3.49	1.78	0.97	0.78	0.69	0.69	
19	0.62	0.49	2.56	0.89	0.79	0.64	3.59	1.73	0.96	0.80	0.66	0.69	
20	0.62	0.94	2.34	0.88	0.80	0.66	3.83	1.67	0.95	0.78	0.65	0.67	
21	0.61	1.33	2.77	0.88	0.79	0.66	3.83	1.64	0.95	0.78	0.65	0.66	
22	0.61	1.56	2.89	0.88	0.78	0.64	3.85	1.62	0.95	0.76	0.64	0.65	
23	0.60	2.52	3.17	0.87	0.77	0.66	3.76	1.57	0.94	0.76	0.64	0.64	
24	0.59	2.51	3.27	0.86	0.78	0.67	3.54	1.51	0.93	0.76	0.63	0.64	
25	0.57	2.38	3.06	0.89	0.80	0.67	3.36	1.48	0.92	0.75	0.61	0.63	
26	0.57	2.25	2.67	1.30	0.82	0.83	3.30	1.43	0.90	0.75	0.62	0.64	
27	0.57	1.90	2.34	1.38	0.82	0.89	3.22	1.38	0.89	0.74	0.62	0.63	
28	0.60	1.59	2.11	0.94	0.81	0.99	3.18	1.33	0.89	0.74	0.66	0.63	
29	0.58	1.38	1.93	0.91	0.78	1.34	3.10	1.31	0.88	0.73		0.63	
30	0.55	1.24	1.78	0.90	0.78	1.49	2.94	1.30	0.87	0.73		0.62	
31		1.15		0.89	0.79		2.83		0.87	0.73		0.62	
MEAN	0.60	0.98	1.97	1.07	0.82	0.78	3.15	1.90	1.01	0.79	0.68	0.66	
MAX	0.69	2.52	3.27	1.64	0.92	1.49	3.85	2.72	1.26	0.86	0.73	0.71	3.85
MIN	0.54	0.45	0.97	0.86	0.73	0.64	1.50	1.30	0.87	0.73	0.61	0.62	0.45

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.95 M (A.D), AT 13.00 HOURS, ON OCT 20, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION — 5.98 M (A.D)

RIGHT BANK ELEVATION — 7.35 M (A.D), DRAINAGE AREA 1921 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.04	0.77	2.00	0.48	0.29	1.65	5.51	1.07	0.39	0.22	0.14	
2	0.04	0.03	0.70	1.72	0.46	0.28	2.53	4.88	1.02	0.36	0.23	0.17	
3	0.05	0.02	0.75	1.50	0.46	0.26	3.45	4.47	0.94	0.36	0.22	0.18	
4	0.06	0.00	0.70	1.30	0.45	0.25	4.37	4.05	0.90	0.34	0.22	0.17	
5	0.08	0.00	0.68	1.13	0.43	0.26	5.81	3.67	0.88	0.34	0.21	0.16	
6	0.09	0.00	0.62	1.02	0.40	0.25	6.99	3.36	0.81	0.33	0.21	0.16	
7	0.07	0.00	0.60	0.92	0.37	0.27	8.37	3.12	0.77	0.33	0.21	0.18	
8	0.19	0.00	0.58	0.85	0.36	0.26	8.31	2.91	0.75	0.33	0.21	0.19	
9	0.14	0.00	0.57	0.77	0.34	0.26	7.09	2.79	0.72	0.33	0.21	0.18	
10	0.10	0.00	0.55	0.70	0.33	0.26	6.40	3.12	0.68	0.30	0.21	0.17	
11	0.12	0.00	3.30	0.65	0.30	0.25	6.59	3.48	0.65	0.30	0.21	0.16	
12	0.13	0.00	5.59	0.60	0.31	0.24	8.12	4.23	0.63	0.30	0.20	0.14	
13	0.11	0.07	6.07	0.57	0.30	0.25	9.14	3.95	0.62	0.30	0.20	0.13	
14	0.11	0.06	3.21	0.54	0.30	0.22	8.82	3.48	0.62	0.31	0.19	0.14	
15	0.11	0.04	3.84	0.52	0.29	0.18	9.96	3.06	0.62	0.30	0.19	0.14	
16	0.11	0.02	3.33	0.51	0.28	0.15	10.92	2.76	0.58	0.28	0.17	0.16	
17	0.13	0.00	2.76	0.49	0.27	0.15	10.70	2.53	0.57	0.28	0.16	0.21	
18	0.13	0.00	2.85	0.46	0.23	0.15	10.15	2.37	0.55	0.28	0.19	0.19	
19	0.12	0.00	4.88	0.43	0.29	0.14	11.26	2.23	0.54	0.30	0.16	0.19	
20	0.12	0.51	4.09	0.42	0.30	0.16	15.34	2.07	0.52	0.28	0.15	0.17	
21	0.11	1.22	5.72	0.42	0.29	0.16	15.34	2.00	0.52	0.28	0.15	0.16	
22	0.11	1.80	6.25	0.42	0.28	0.14	15.83	1.95	0.52	0.26	0.14	0.15	
23	0.10	4.73	7.69	0.40	0.27	0.16	13.88	1.82	0.51	0.26	0.14	0.14	
24	0.09	4.69	8.31	0.39	0.28	0.17	10.70	1.67	0.49	0.26	0.13	0.14	
25	0.07	4.23	7.09	0.43	0.30	0.17	8.98	1.60	0.48	0.25	0.11	0.13	
26	0.07	3.77	5.30	1.15	0.33	0.34	8.50	1.47	0.45	0.25	0.12	0.14	
27	0.07	2.70	4.09	1.35	0.33	0.43	7.99	1.35	0.43	0.24	0.12	0.13	
28	0.10	1.87	3.33	0.51	0.31	0.58	7.75	1.22	0.43	0.24	0.16	0.13	
29	0.08	1.35	2.79	0.46	0.28	1.25	7.30	1.17	0.42	0.23		0.13	
30	0.05	1.04	2.37	0.45	0.28	1.62	6.49	1.15	0.40	0.23		0.12	
31		0.86		0.43	0.29		5.98		0.40	0.23		0.12	
TOTAL	2.90	29.05	99.38	23.51	10.21	9.55	264.71	83.44	19.49	9.07	5.04	4.84	561.19 CMSDAY
MEAN	0.10	0.94	3.31	0.76	0.33	0.32	8.54	2.78	0.63	0.29	0.18	0.16	1.54 CMS
MAX	0.19	4.73	8.31	2.00	0.48	1.62	15.83	5.51	1.07	0.39	0.23	0.21	15.83 CMS
MIN	0.04	0.00	0.55	0.39	0.23	0.14	1.65	1.15	0.40	0.23	0.11	0.12	0.00 CMS
RUNOFF	0.251	2.510	8.586	2.031	0.882	0.825	22.871	7.209	1.684	0.784	0.435	0.418	48.487 MCM

MOMENTARY PEAK 19.67 CMS, AT 3.95 M (A.D), AT 13.00 HOURS, ON OCT 20, 1980

RUNOFF YIELD 0.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 10.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

MAE KLONG RIVER BASIN

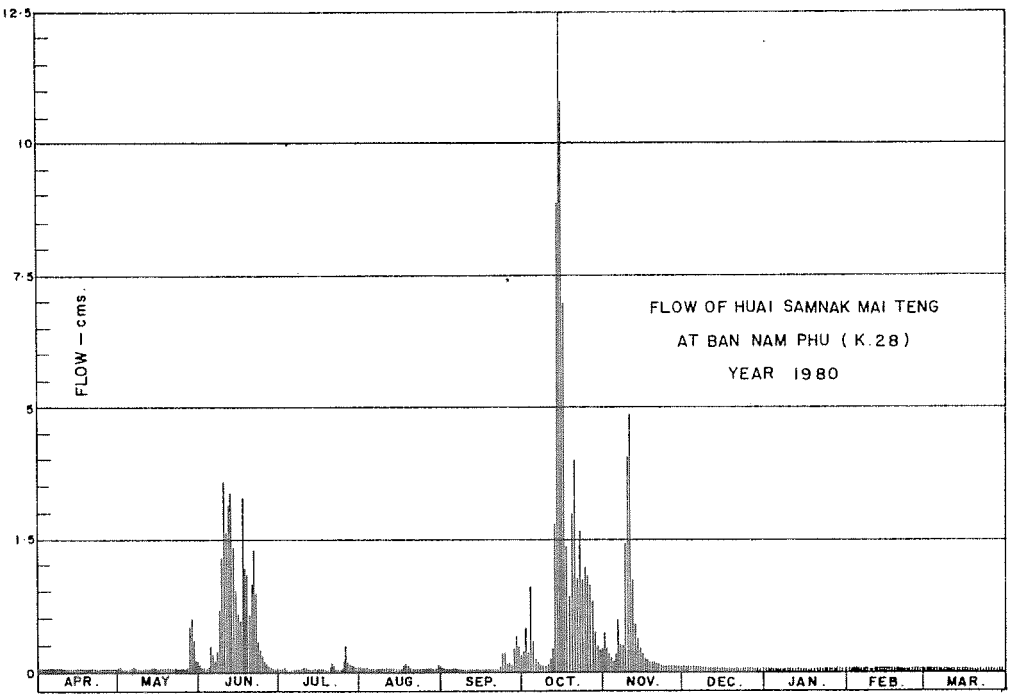
HUAI SAMNAK MAI TENG AT BAN NAM PHU, RATCHABURI (K.28)

LOCATION	LAT. 13°-30'-23" N., LONG. 99°-36'-04" E., ON LEFT BANK AT BAN NAM PHU, AMPHOE PAK THO, RATCHABURI.
DRAINAGE AREA	183 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-K.28
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+6.189 M. (A.D.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.85	0.67	0.69	0.67	0.68	0.66	0.85	1.04	0.71	0.68	0.65	0.58	
2	-0.86	0.64	0.66	0.66	0.67	0.65	1.08	0.91	0.71	0.67	0.65	0.58	
3	-0.86	0.63	0.64	0.66	0.67	0.65	0.86	0.85	0.71	0.67	0.66	0.58	
4	-0.87	0.62	0.65	0.64	0.66	0.64	1.28	0.82	0.71	0.67	0.67	0.57	
5	-0.87	0.63	0.94	0.59	0.66	0.67	0.94	0.79	0.70	0.67	0.66	0.57	
6	-0.88	0.67	0.73	0.59	0.66	0.66	0.83	1.13	0.70	0.67	0.66	0.57	
7	-0.88	0.67	0.82	0.59	0.66	0.65	0.79	0.94	0.70	0.66	0.66	0.55	
8	-0.89	0.64	0.96	0.59	0.66	0.64	0.75	0.94	0.70	0.66	0.66	0.50	
9	-0.90	0.63	1.34	0.59	0.66	0.65	0.73	2.05	0.70	0.66	0.65	0.48	
10	-0.92	0.62	1.64	0.60	0.65	0.64	0.73	1.75	0.70	0.66	0.65	0.47	
11	-0.93	0.63	1.28	0.60	0.65	0.64	0.77	1.36	0.69	0.66	0.65	0.45	
12	-0.94	0.63	1.61	0.60	0.66	0.64	0.94	1.17	0.69	0.66	0.65	0.43	
13	-0.95	0.64	1.53	0.60	0.66	0.64	0.81	1.04	0.69	0.66	0.65	0.42	
14	-0.96	0.64	1.27	0.60	0.67	0.64	1.77	0.96	0.69	0.66	0.65	0.41	
15	-0.96	0.64	1.17	0.63	0.66	0.64	2.51	0.89	0.69	0.66	0.65	0.39	
16	-0.96	0.64	1.07	0.66	0.66	0.63	2.04	0.85	0.69	0.66	0.64	0.38	
17	-0.96	0.64	1.60	0.63	0.73	0.63	1.44	0.82	0.69	0.66	0.64	0.36	
18	-0.97	0.64	1.35	0.63	0.76	0.63	1.25	0.80	0.69	0.66	0.64	0.34	
19	-0.97	0.65	1.33	0.63	0.68	0.63	1.15	0.80	0.69	0.66	0.64	0.30	
20	-0.98	0.65	1.03	0.63	0.66	0.62	1.70	0.80	0.68	0.66	0.63	0.29	
21	-0.98	0.65	1.43	0.79	0.65	0.62	1.16	0.78	0.68	0.66	0.63	0.27	
22	-0.98	0.64	1.32	0.68	0.63	0.62	1.25	0.77	0.68	0.66	0.62	0.27	
23	-0.78	0.64	1.00	0.65	0.63	0.88	1.49	0.75	0.68	0.66	0.61	0.26	
24	-0.69	0.64	0.89	0.63	0.65	0.89	1.85	0.75	0.68	0.66	0.60	0.24	
25	-0.64	0.63	0.80	0.65	0.63	0.72	1.37	0.74	0.68	0.66	0.60	0.24	
26	-0.59	0.63	0.76	1.26	0.62	0.79	1.32	0.73	0.68	0.66	0.59	0.23	
27	-0.56	0.63	0.72	0.78	0.62	0.69	1.23	0.73	0.68	0.66	0.59	0.21	
28	-0.04	1.06	0.69	0.76	0.63	0.95	1.12	0.72	0.68	0.66	0.58	0.20	
29	-0.26	1.15	0.68	0.72	0.65	1.04	1.01	0.72	0.68	0.66		0.19	
30	-0.30	0.82	0.67	0.70	0.74	0.88	0.93	0.71	0.68	0.66		0.18	
31		0.80		0.69	0.68		0.90		0.68	0.66		0.17	
MEAN	-0.81	0.68	1.04	0.67	0.66	0.70	1.19	0.94	0.69	0.66	0.64	0.38	
MAX	-0.04	1.13	1.64	1.26	0.76	1.04	2.51	2.05	0.71	0.68	0.67	0.58	2.51
MIN	-0.98	0.62	0.64	0.59	0.62	0.62	0.73	0.71	0.68	0.66	0.58	0.17	-0.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.35 M (A.D), AT 3.00 HOURS, ON JUN 9, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 6.19 M (A.D)
RIGHT BANK ELEVATION 5.65 M (A.D), DRAINAGE AREA 183 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.07	0.09	0.07	0.08	0.06	0.30	0.72	0.11	0.08	0.05	0.00	
2	0.00	0.04	0.06	0.06	0.07	0.05	0.84	0.42	0.11	0.07	0.05	0.00	
3	0.00	0.03	0.04	0.06	0.07	0.05	0.32	0.30	0.11	0.07	0.06	0.00	
4	0.00	0.02	0.05	0.04	0.06	0.04	1.62	0.24	0.11	0.07	0.07	0.00	
5	0.00	0.03	0.48	0.00	0.06	0.07	0.48	0.19	0.10	0.07	0.06	0.00	
6	0.00	0.07	0.13	0.00	0.06	0.06	0.26	1.02	0.10	0.07	0.06	0.00	
7	0.00	0.07	0.24	0.00	0.06	0.05	0.19	0.48	0.10	0.06	0.06	0.00	
8	0.00	0.04	0.52	0.00	0.06	0.04	0.15	0.48	0.10	0.06	0.06	0.00	
9	0.00	0.03	1.86	0.00	0.06	0.05	0.13	7.00	0.10	0.06	0.05	0.00	
10	0.00	0.02	3.58	0.00	0.05	0.04	0.13	4.35	0.10	0.06	0.05	0.00	
11	0.00	0.03	1.62	0.00	0.05	0.04	0.17	1.94	0.09	0.06	0.05	0.00	
12	0.00	0.03	3.37	0.00	0.06	0.04	0.48	1.18	0.09	0.06	0.05	0.00	
13	0.00	0.04	2.88	0.00	0.06	0.04	0.22	0.72	0.09	0.06	0.05	0.00	
14	0.00	0.04	1.58	0.00	0.07	0.04	4.49	0.52	0.09	0.06	0.05	0.00	
15	0.00	0.04	1.18	0.03	0.06	0.04	12.92	0.38	0.09	0.06	0.05	0.00	
16	0.00	0.04	0.81	0.06	0.06	0.03	6.90	0.30	0.09	0.06	0.04	0.00	
17	0.00	0.04	3.30	0.03	0.13	0.03	2.34	0.24	0.09	0.06	0.04	0.00	
18	0.00	0.04	1.90	0.03	0.16	0.03	1.50	0.20	0.09	0.06	0.04	0.00	
19	0.00	0.05	1.82	0.03	0.08	0.03	1.10	0.20	0.09	0.06	0.04	0.00	
20	0.00	0.05	0.69	0.03	0.06	0.02	4.00	0.20	0.08	0.06	0.03	0.00	
21	0.00	0.05	2.28	0.19	0.05	0.02	1.14	0.18	0.08	0.06	0.03	0.00	
22	0.00	0.04	1.78	0.08	0.03	0.02	1.50	0.17	0.08	0.06	0.02	0.00	
23	0.00	0.04	0.60	0.05	0.03	0.36	2.64	0.15	0.08	0.06	0.01	0.00	
24	0.00	0.04	0.38	0.03	0.05	0.38	5.10	0.15	0.08	0.06	0.00	0.00	
25	0.00	0.03	0.20	0.05	0.03	0.12	1.98	0.14	0.08	0.06	0.00	0.00	
26	0.00	0.03	0.16	1.54	0.02	0.19	1.78	0.13	0.08	0.06	0.00	0.00	
27	0.00	0.03	0.12	0.18	0.02	0.09	1.42	0.13	0.08	0.06	0.00	0.00	
28	0.00	0.78	0.09	0.16	0.03	0.50	0.98	0.12	0.08	0.06	0.00	0.00	
29	0.00	1.02	0.08	0.12	0.05	0.72	0.63	0.12	0.08	0.06		0.00	
30	0.00	0.24	0.07	0.10	0.14	0.36	0.46	0.11	0.08	0.06		0.00	
31		0.20		0.09	0.08		0.40		0.08	0.06		0.00	
TOTAL	0.00	3.32	31.96	3.03	1.95	3.61	56.57	22.48	2.81	1.93	1.07	0.00	128.73 CMSDAY
MEAN	0.00	0.11	1.07	0.10	0.06	0.12	1.82	0.75	0.09	0.06	0.04	0.00	0.35 CMS
MAX	0.00	1.02	3.58	1.54	0.16	0.72	12.92	7.00	0.11	0.08	0.07	0.00	12.92 CMS
MIN	0.00	0.02	0.04	0.00	0.02	0.02	0.13	0.11	0.08	0.06	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.287	2.761	0.262	0.168	0.312	4.888	1.942	0.243	0.167	0.092	0.000	11.122 MCM

MOMENTARY PEAK 70.85 CMS, AT 4.35 M (A.D), AT 3.00 HOURS, ON JUN 9, 1980

RUNOFF YIELD 1.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 387.16 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PHETCHABURI RIVER BASIN

PHETCHABURI RIVER AT BAN RAI PHANIAT, PHETCHABURI (B.1A)

LOCATION — LAT. 13°-04'-22" N., LONG. 99°-56'-37" E., ON LEFT BANK, NEXT TO MUANG THAMON REGULATOR, BAN RAI PHANIAT, TAMBON BAN MO, AMPHOE MUANG, PHETCHABURI.

DRAINAGE AREA — 4,188 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — -0.060 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ALONG THE GAGE LINE.

ELEVATION — +4.667 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1961 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965, 1967-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965, 1967-1971

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

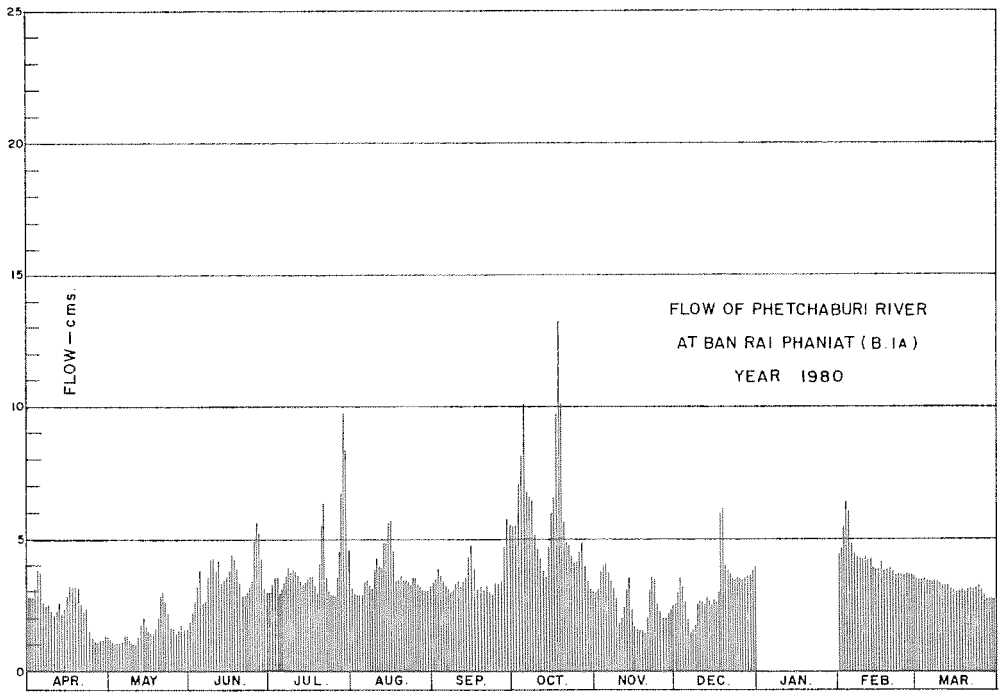
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE DURING 1965, 1967-1968, 1970. FLOW REGULATED BY KAENG KRACHAN RESERVOIR AND PHET DIVERSION DAM FOR IRRIGATION OF ABOUT 27,800 HECTARES AT ABOVE GAGE SITE.

REMARKS — NO RECORDS DURING JAN.1-31,1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	0.84	0.92	1.00	1.01	1.03	1.17	1.00	0.97	*******	1.10	1.04	
2	0.98	0.83	0.94	1.03	0.99	1.04	1.17	1.01	0.99	*******	1.13	1.03	
3	1.01	0.82	0.99	1.04	0.99	1.07	1.23	1.06	1.04	*******	1.23	1.03	
4	1.06	0.83	1.06	1.03	0.99	1.04	1.32	1.07	0.98	*******	1.21	1.04	
5	1.05	0.82	0.99	0.99	0.99	1.03	1.33	1.08	0.94	*******	1.14	1.03	
6	0.96	0.83	0.94	1.01	1.02	1.02	1.24	1.04	0.85	*******	1.11	1.03	
7	0.95	0.85	0.99	1.04	1.03	1.00	1.24	1.03	0.87	*******	1.10	1.03	
8	0.96	0.85	1.08	1.07	1.01	1.00	1.23	1.01	0.89	*******	1.10	1.03	
9	0.94	0.83	1.09	1.04	1.02	1.01	1.15	0.94	0.95	*******	1.09	1.03	
10	0.92	0.82	1.03	1.06	1.09	1.03	1.12	0.89	0.97	*******	1.09	1.02	
11	0.93	0.82	1.08	1.05	1.07	1.02	1.09	0.92	0.97	*******	1.10	1.02	
12	0.96	0.84	1.05	1.04	1.06	1.03	1.06	0.95	0.96	*******	1.09	1.02	
13	0.92	0.87	1.02	1.02	1.13	1.01	1.04	1.04	0.98	*******	1.09	1.02	
14	0.94	0.91	1.04	1.02	1.13	1.09	1.06	0.99	0.96	*******	1.07	1.01	
15	0.99	0.88	1.04	1.03	1.17	1.12	1.19	0.90	0.98	*******	1.06	1.00	
16	1.02	0.87	1.06	1.04	1.18	1.07	1.20	0.88	0.97	*******	1.07	1.00	
17	1.02	0.86	1.10	1.04	1.06	1.02	1.30	0.88	0.99	*******	1.08	1.00	
18	1.02	0.86	1.07	1.02	1.03	1.00	1.60	0.87	1.20	*******	1.06	1.01	
19	1.02	0.88	1.05	0.99	1.04	1.01	1.39	0.86	1.21	*******	1.06	1.00	
20	0.97	0.92	0.99	1.06	1.05	1.00	1.18	0.89	1.06	*******	1.07	1.01	
21	0.93	1.00	0.99	1.22	1.03	1.01	1.13	0.99	1.06	*******	1.06	1.01	
22	0.94	0.98	0.99	1.13	1.04	1.00	1.12	1.04	1.04	*******	1.05	1.01	
23	0.88	0.93	1.01	1.03	1.02	0.99	1.08	1.04	1.03	*******	1.05	1.01	
24	0.86	0.88	1.03	0.99	1.04	1.01	1.08	0.97	1.04	*******	1.05	1.02	
25	0.83	0.83	1.13	0.99	1.04	1.01	1.08	0.95	1.04	*******	1.05	1.01	
26	0.83	0.86	1.18	0.99	1.02	1.01	1.11	0.93	1.03	*******	1.05	1.00	
27	0.83	0.86	1.14	1.08	1.02	1.05	1.13	0.91	1.04	*******	1.05	0.98	
28	0.84	0.89	1.04	1.24	1.00	1.15	1.07	0.92	1.04	*******	1.05	0.98	
29	0.83	0.88	0.99	1.43	1.00	1.19	1.04	0.93	1.05	*******		0.98	
30	0.85	0.87	1.00	1.27	1.01	1.17	1.01	0.95	1.06	*******		0.98	
31		0.87		1.05	1.02		1.00		1.07	*******		0.99	
MEAN	0.94	0.87	1.03	1.07	1.04	1.04	1.17	0.96	1.01	*******	1.09	1.01	
MAX	1.06	1.00	1.18	1.43	1.18	1.19	1.60	1.08	1.21	*******	1.23	1.04	1.60
MIN	0.83	0.82	0.92	0.99	0.99	0.99	1.00	0.86	0.85	*******	1.05	0.98	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.62 M (MSL), AT 18.00 HOURS, ON OCT 18, 1980
ZERO GAGE AT BOTTOM ELEVATION -0.06 M (MSL), RIVER BED -0.45 M (MSL)
LEFT BANK ELEVATION 5.11 M (MSL)
RIGHT BANK ELEVATION 5.01 M (MSL), DRAINAGE AREA 4188 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.78	1.24	2.12	3.00	3.14	3.42	5.52	3.00	2.67	*******	4.40	3.56	
2	2.78	1.13	2.34	3.42	2.89	3.56	5.52	3.14	2.89	*******	4.88	3.42	
3	3.14	1.02	2.89	3.56	2.89	3.98	6.48	3.84	3.56	*******	6.48	3.42	
4	3.84	1.13	3.84	3.42	2.89	3.56	7.92	3.98	2.78	*******	6.16	3.56	
5	3.70	1.02	2.89	2.89	2.89	3.42	8.08	4.12	2.34	*******	5.04	3.42	
6	2.56	1.13	2.34	3.14	3.28	3.28	6.64	3.56	1.35	*******	4.56	3.42	
7	2.45	1.35	2.89	3.56	3.42	3.00	6.64	3.42	1.57	*******	4.40	3.42	
8	2.56	1.35	4.12	3.98	3.14	3.00	6.48	3.14	1.79	*******	4.40	3.42	
9	2.34	1.13	4.26	3.56	3.28	3.14	5.20	2.34	2.45	*******	4.26	3.42	
10	2.12	1.02	3.42	3.84	4.26	3.42	4.72	1.79	2.67	*******	4.26	3.28	
11	2.23	1.02	4.12	3.70	3.98	3.28	4.26	2.12	2.67	*******	4.40	3.28	
12	2.56	1.24	3.70	3.56	3.84	3.42	3.84	2.45	2.56	*******	4.26	3.28	
13	2.12	1.57	3.28	3.28	4.88	3.14	3.56	3.56	2.78	*******	4.26	3.28	
14	2.34	2.01	3.56	3.28	4.68	4.26	3.84	2.89	2.56	*******	3.98	3.14	
15	2.89	1.68	3.56	3.42	5.52	4.72	5.84	1.90	2.78	*******	3.84	3.00	
16	3.28	1.57	3.84	3.56	5.68	3.98	6.00	1.68	2.67	*******	3.98	3.00	
17	3.28	1.46	4.40	3.56	3.84	3.28	7.60	1.68	2.89	*******	4.12	3.00	
18	3.28	1.46	3.98	3.28	3.42	3.00	13.20	1.57	6.00	*******	3.84	3.14	
19	3.23	1.68	3.70	2.99	3.56	3.14	9.04	1.46	6.16	*******	3.84	3.00	
20	2.67	2.12	2.89	3.84	3.70	3.00	5.65	1.79	3.84	*******	3.98	3.14	
21	2.23	3.00	2.89	6.32	3.42	3.14	4.88	2.89	3.84	*******	3.84	3.14	
22	2.34	2.78	2.89	4.88	3.56	3.00	4.72	3.56	3.56	*******	3.70	3.14	
23	1.68	2.23	3.14	3.42	3.28	2.89	4.12	3.56	3.42	*******	3.70	3.14	
24	1.46	1.68	3.42	2.89	3.56	3.14	4.12	2.67	3.56	*******	3.70	3.28	
25	1.13	1.68	4.88	2.89	3.56	3.14	4.12	2.45	3.56	*******	3.70	3.14	
26	1.13	1.46	5.68	2.89	3.28	3.14	4.56	2.23	3.42	*******	3.70	3.00	
27	1.13	1.46	5.04	4.12	3.28	3.70	4.88	2.01	3.56	*******	3.70	2.78	
28	1.24	1.79	3.56	6.64	3.00	5.20	3.98	2.12	3.56	*******	3.70	2.78	
29	1.13	1.68	2.89	9.80	3.00	5.84	3.56	2.23	3.70	*******		2.78	
30	1.35	1.57	3.00	7.12	3.14	5.52	3.14	2.45	3.84	*******		2.78	
31		1.57		3.70	3.28		3.00		3.98	*******		2.89	
TOTAL	71.02	48.23	105.53	123.41	111.74	107.71	171.14	79.60	98.98	*******	119.08	98.45	******** CMSDAY
MEAN	2.37	1.56	3.52	3.98	3.60	3.59	5.52	2.65	3.19	*******	4.25	3.18	******* CMS
MAX	3.84	3.00	5.68	9.80	5.68	5.84	13.20	4.12	6.16	*******	6.48	3.56	13.20 CMS
MIN	1.13	1.02	2.12	2.89	2.89	2.89	3.00	1.46	1.35	*******	3.70	2.78	******* CMS
RUNOFF	6.136	4.167	9.118	10.663	9.654	9.306	14.786	6.877	8.552	*******	10.289	8.506	******** MCM

MOMENTARY PEAK 13.60 CMS, AT 1.62 M (MSL), AT 18.00 HOURS, ON OCT 18, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 3.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PHETCHABURI RIVER BASIN

PHETCHABURI RIVER AT BAN THA SIK, PHETCHABURI (B.2A)

LOCATION — LAT. 12°-54'-44" N., LONG. 99°-51'-31" E., ON LEFT BANK ABOUT 500 METERS DOWNSTREAM OF PHET BARRAGE, AMPHOE THA YANG, PHETCHABURI.

DRAINAGE AREA — 4,060 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +12.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — AT THE ABUTMENT OF PHET BARRAGE.

ELEVATION — +23.00 M. (M.S.L.)

GAGE READING FREQUENCY — 24-TIME DAILY READINGS AT 01.00-24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1959 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1960-1961, 1965-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960-1961, 1965-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1979. FLOW REGULATED BY KAENG KRACHAN RESERVOIR AND PHET BARRAGE AT ABOVE GAGE SITE FOR IRRIGATION OF ABOUT 27,800 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

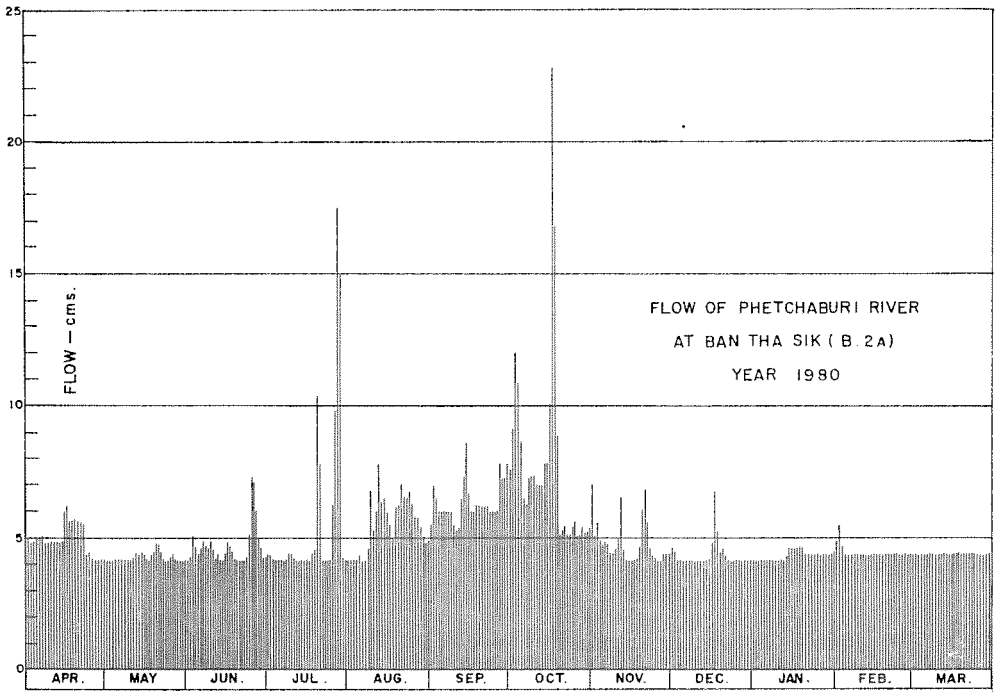
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.16	12.12	12.12	12.13	12.12	12.18	12.26	12.24	12.14	12.12	12.15	12.14	
2	12.15	12.12	12.13	12.13	12.12	12.24	12.36	12.15	12.14	12.12	12.18	12.14	
3	12.15	12.12	12.16	12.12	12.12	12.22	12.41	12.18	12.12	12.12	12.15	12.14	
4	12.16	12.12	12.13	12.12	12.12	12.20	12.36	12.15	12.12	12.12	12.14	12.14	
5	12.16	12.12	12.13	12.12	12.13	12.20	12.28	12.14	12.12	12.12	12.14	12.14	
6	12.16	12.12	12.14	12.12	12.12	12.20	12.22	12.15	12.12	12.12	12.14	12.14	
7	12.15	12.12	12.15	12.12	12.12	12.20	12.21	12.14	12.12	12.12	12.14	12.14	
8	12.15	12.12	12.14	12.12	12.13	12.20	12.25	12.13	12.12	12.12	12.14	12.14	
9	12.15	12.12	12.14	12.13	12.23	12.20	12.25	12.13	12.12	12.12	12.14	12.14	
10	12.15	12.12	12.15	12.13	12.17	12.17	12.25	12.14	12.12	12.12	12.14	12.14	
11	12.15	12.12	12.12	12.12	12.17	12.17	12.24	12.16	12.12	12.12	12.14	12.14	
12	12.15	12.13	12.13	12.12	12.27	12.20	12.24	12.22	12.12	12.12	12.14	12.14	
13	12.15	12.13	12.12	12.12	12.21	12.25	12.24	12.14	12.12	12.12	12.14	12.14	
14	12.15	12.13	12.12	12.12	12.22	12.30	12.27	12.12	12.12	12.14	12.14	12.14	
15	12.20	12.13	12.13	12.12	12.21	12.24	12.27	12.12	12.12	12.14	12.14	12.14	
16	12.21	12.12	12.15	12.12	12.19	12.20	12.35	12.12	12.14	12.14	12.14	12.14	
17	12.18	12.12	12.14	12.12	12.17	12.20	12.70	12.12	12.23	12.14	12.14	12.14	
18	12.19	12.13	12.13	12.13	12.15	12.21	12.39	12.12	12.17	12.14	12.14	12.14	
19	12.19	12.13	12.12	12.14	12.21	12.21	12.12	12.15	12.12	12.14	12.14	12.14	
20	12.18	12.15	12.12	12.36	12.21	12.21	12.12	12.20	12.14	12.13	12.14	12.14	
21	12.18	12.14	12.12	12.19	12.24	12.21	12.13	12.23	12.13	12.13	12.14	12.14	
22	12.18	12.12	12.12	12.12	12.22	12.21	12.12	12.18	12.12	12.13	12.14	12.14	
23	12.13	12.12	12.12	12.12	12.22	12.20	12.12	12.13	12.12	12.13	12.14	12.14	
24	12.13	12.12	12.16	12.12	12.23	12.20	12.12	12.13	12.12	12.13	12.14	12.14	
25	12.12	12.12	12.25	12.12	12.21	12.20	12.14	12.12	12.12	12.13	12.14	12.14	
26	12.12	12.13	12.24	12.21	12.19	12.20	12.12	12.12	12.12	12.13	12.14	12.14	
27	12.12	12.12	12.17	12.40	12.19	12.27	12.12	12.12	12.12	12.13	12.14	12.14	
28	12.12	12.12	12.15	12.57	12.18	12.25	12.13	12.13	12.12	12.13	12.14	12.14	
29	12.12	12.12	12.13	12.44	12.17	12.25	12.12	12.13	12.12	12.13		12.14	
30	12.12	12.12	12.12	12.12	12.15	12.27	12.12	12.13	12.12	12.13		12.14	
31		12.12		12.12	12.15		12.13		12.12	12.13		12.14	
MEAN	12.15	12.12	12.14	12.17	12.18	12.22	12.23	12.15	12.13	12.13	12.14	12.14	
MAX	12.21	12.15	12.25	12.57	12.27	12.30	12.70	12.24	12.23	12.14	12.18	12.14	12.70
MIN	12.12	12.12	12.12	12.12	12.12	12.17	12.12	12.12	12.12	12.12	12.14	12.14	12.12

ANNUAL MAX MOMENTARY GAGE HEIGHT — 12.90 M (MSL), AT 12.00 HOURS, ON OCT 17, 1980

ZERO GAGE AT BOTTOM ELEVATION — 12.00 M (MSL), RIVER BED — 8.90 M (MSL)

LEFT BANK ELEVATION — 17.89 M (MSL)

RIGHT BANK ELEVATION — 23.05 M (MSL), DRAINAGE AREA — 4060 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.08	4.16	4.16	4.39	4.16	5.54	7.56	7.04	4.62	4.16	4.85	4.62	
2	4.85	4.16	4.39	4.39	4.16	7.04	10.40	4.85	4.62	4.16	5.54	4.62	
3	4.85	4.16	5.08	4.16	4.16	6.52	11.94	5.54	4.16	4.16	4.85	4.62	
4	5.08	4.16	4.39	4.16	4.16	6.00	10.40	4.85	4.16	4.16	4.62	4.62	
5	5.08	4.16	4.39	4.16	4.39	6.00	8.08	4.62	4.16	4.16	4.62	4.62	
6	5.08	4.16	4.62	4.16	4.16	6.00	6.52	4.85	4.16	4.16	4.62	4.62	
7	4.85	4.16	4.85	4.16	4.16	6.00	6.26	4.62	4.16	4.16	4.62	4.62	
8	4.85	4.16	4.62	4.16	4.39	6.00	7.30	4.39	4.16	4.16	4.62	4.62	
9	4.85	4.16	4.62	4.39	6.78	6.00	7.30	4.39	4.16	4.16	4.62	4.62	
10	4.85	4.16	4.85	4.39	5.31	5.31	7.30	4.62	4.16	4.16	4.62	4.62	
11	4.85	4.16	4.16	4.16	5.31	5.31	7.04	5.08	4.16	4.16	4.62	4.62	
12	4.85	4.39	4.39	4.16	7.82	6.00	7.04	6.52	4.16	4.16	4.62	4.62	
13	4.85	4.39	4.16	4.16	6.26	7.30	7.04	4.62	4.16	4.16	4.62	4.62	
14	4.85	4.39	4.16	4.16	6.52	8.60	7.82	4.16	4.16	4.62	4.62	4.62	
15	6.00	4.39	4.39	4.16	6.26	7.04	7.82	4.16	4.16	4.62	4.62	4.62	
16	6.26	4.16	4.85	4.16	5.77	6.00	10.10	4.16	4.62	4.62	4.62	4.62	
17	5.54	4.16	4.62	4.16	5.31	6.00	22.80	4.16	6.78	4.62	4.62	4.62	
18	5.77	4.39	4.39	4.39	4.85	6.26	11.30	4.16	5.31	4.62	4.62	4.62	
19	5.77	4.39	4.16	4.62	6.26	6.26	4.16	4.85	4.16	4.62	4.62	4.62	
20	5.54	4.85	4.16	10.40	6.26	6.26	4.16	6.00	4.62	4.39	4.62	4.62	
21	5.54	4.62	4.16	5.77	7.04	6.26	4.39	6.78	4.39	4.39	4.62	4.62	
22	5.54	4.16	4.16	4.16	6.52	6.26	4.16	5.54	4.16	4.39	4.62	4.62	
23	4.39	4.16	4.16	4.16	6.52	6.00	4.16	4.39	4.16	4.39	4.62	4.62	
24	4.39	4.16	5.08	4.16	6.78	6.00	4.16	4.39	4.16	4.39	4.62	4.62	
25	4.16	4.16	7.30	4.16	6.26	6.00	4.62	4.16	4.16	4.39	4.62	4.62	
26	4.16	4.39	7.04	6.26	5.77	6.00	4.16	4.16	4.16	4.39	4.62	4.62	
27	4.16	4.16	5.31	11.60	5.77	7.82	4.16	4.16	4.16	4.39	4.62	4.62	
28	4.16	4.16	4.85	17.52	5.54	7.30	4.39	4.39	4.16	4.39	4.62	4.62	
29	4.16	4.16	4.39	12.96	5.31	7.30	4.16	4.39	4.16	4.39		4.62	
30	4.16	4.16	4.16	4.16	4.85	7.82	4.16	4.39	4.16	4.39		4.62	
31		4.16		4.16	4.85		4.39		4.16	4.39		4.62	
TOTAL	148.52	131.72	140.02	170.12	171.66	192.20	219.25	144.39	134.80	134.48	130.74	143.22	1861.12 CMSDAY
MEAN	4.95	4.25	4.67	5.49	5.54	6.41	7.07	4.81	4.35	4.34	4.67	4.62	5.10 CMS
MAX	6.26	4.85	7.30	17.52	7.82	8.60	22.80	7.04	6.78	4.62	5.54	4.62	22.80 CMS
MIN	4.16	4.16	4.16	4.16	4.16	5.31	4.16	4.16	4.16	4.16	4.62	4.62	4.16 CMS
RUNOFF	12.832	11.381	12.098	14.698	14.831	16.606	18.943	12.475	11.647	11.619	11.296	12.374	160.800 MCM

MOMENTARY PEAK 32.60 CMS, AT 12.90 M (MSL), AT 12.00 HOURS, ON OCT 17, 1980

RUNOFF YIELD 1.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 8.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PHETCHABURI RIVER BASIN

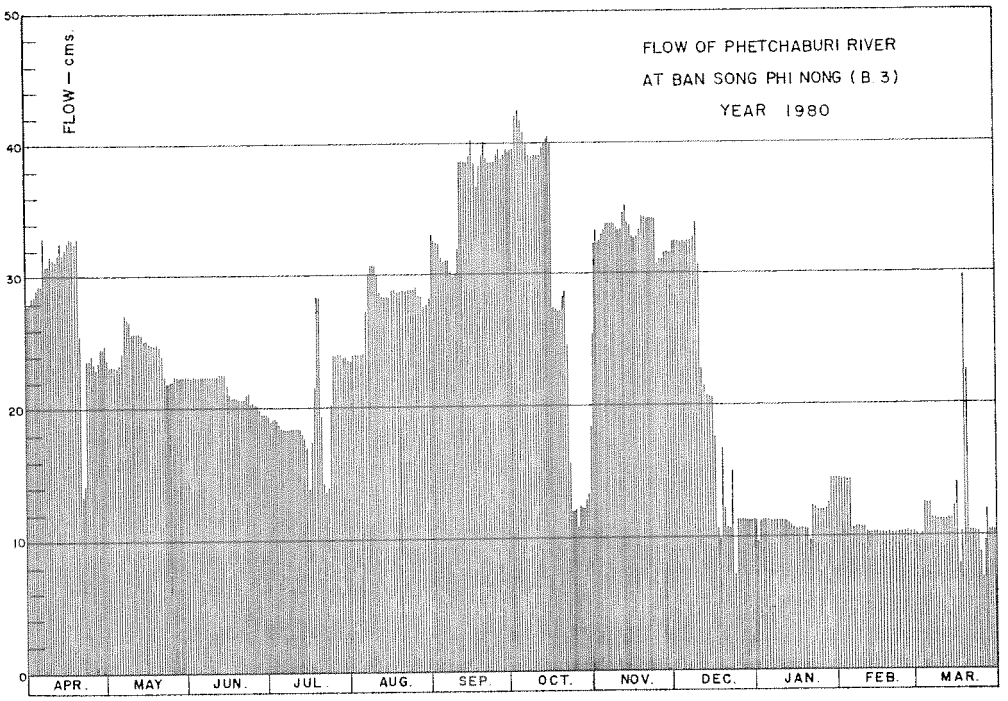
PHETCHABURI RIVER AT BAN SONG PHI NONG, PHETCHABURI (B.3)

LOCATION	LAT. 12°-52'-04" N., LONG. 99°-40'-40" E., ON LEFT BANK AT BAN SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	2,244 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+40.998 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP STAFF GAGE.
ELEVATION	+49.760 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1930 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954 1959, 1968 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1959, 1968 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY KAENG KRACHAN RESERVOIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	42.57	42.46	42.44	42.36	42.47	42.68	42.82	42.66	42.67	42.13	42.23	42.09	
2	42.58	42.46	42.44	42.35	42.48	42.67	42.82	42.69	42.67	42.07	42.23	42.09	
3	42.58	42.46	42.44	42.36	42.48	42.67	42.87	42.67	42.67	42.13	42.23	42.09	
4	42.59	42.46	42.44	42.36	42.48	42.65	42.88	42.68	42.67	42.13	42.23	42.17	
5	42.60	42.46	42.44	42.35	42.48	42.64	42.86	42.69	42.67	42.13	42.23	42.17	
6	42.60	42.47	42.44	42.34	42.48	42.64	42.84	42.70	42.67	42.13	42.11	42.17	
7	42.68	42.50	42.44	42.34	42.55	42.64	42.83	42.70	42.67	42.13	42.11	42.13	
8	42.63	42.55	42.44	42.34	42.63	42.63	42.81	42.70	42.68	42.13	42.11	42.13	
9	42.64	42.54	42.44	42.34	42.63	42.61	42.81	42.70	42.70	42.13	42.11	42.13	
10	42.65	42.52	42.44	42.34	42.63	42.61	42.81	42.69	42.70	42.13	42.10	42.13	
11	42.64	42.52	42.44	42.34	42.62	42.66	42.81	42.69	42.49	42.13	42.10	42.13	
12	42.65	42.52	42.45	42.34	42.59	42.80	42.81	42.71	42.43	42.13	42.10	42.13	
13	42.67	42.52	42.45	42.34	42.58	42.80	42.82	42.73	42.41	42.12	42.10	42.13	
14	42.65	42.51	42.45	42.33	42.58	42.80	42.83	42.70	42.40	42.11	42.10	42.13	
15	42.66	42.51	42.43	42.32	42.58	42.79	42.84	42.70	42.40	42.11	42.10	42.13	
16	42.67	42.51	42.41	42.21	42.58	42.83	42.83	42.68	42.36	42.11	42.10	42.22	
17	42.68	42.50	42.40	42.30	42.59	42.81	42.56	42.68	42.18	42.11	42.10	41.96	
18	42.68	42.50	42.40	42.32	42.59	42.75	42.56	42.69	41.90	42.11	42.10	42.05	
19	42.67	42.50	42.40	42.58	42.59	42.79	42.55	42.71	42.29	42.11	42.10	42.61	
20	42.68	42.50	42.40	42.58	42.59	42.79	42.56	42.71	42.11	42.11	42.10	42.45	
21	42.38	42.49	42.40	42.28	42.59	42.83	42.59	42.71	42.11	42.08	42.10	42.10	
22	41.86	42.45	42.40	42.22	42.59	42.80	42.46	42.71	42.11	42.16	42.10	42.10	
23	42.47	42.43	42.41	42.20	42.59	42.80	42.17	42.71	42.25	42.16	42.10	42.10	
24	42.47	42.43	42.39	42.22	42.59	42.80	42.15	42.71	41.83	42.16	42.10	42.10	
25	42.48	42.43	42.39	42.46	42.59	42.80	42.16	42.63	42.13	42.16	42.10	42.10	
26	42.46	42.44	42.39	42.48	42.60	42.81	42.11	42.64	42.13	42.16	42.10	41.96	
27	42.45	42.44	42.38	42.43	42.58	42.82	42.16	42.64	42.13	42.16	42.09	42.15	
28	42.49	42.44	42.37	42.48	42.58	42.81	42.16	42.65	42.13	42.17	42.10	42.10	
29	42.49	42.44	42.37	42.47	42.56	42.82	42.18	42.65	42.13	42.23		42.10	
30	42.50	42.44	42.37	42.48	42.57	42.82	42.21	42.65	42.13	42.23		42.10	
31		42.44		42.47	42.62		42.55		42.13	42.23		42.10	
MEAN	42.56	42.48	42.42	42.37	42.57	42.75	42.59	42.69	42.35	42.14	42.12	42.14	
MAX	42.68	42.55	42.45	42.58	42.63	42.83	42.88	42.73	42.70	42.23	42.23	42.61	42.88
MIN	41.86	42.43	42.37	42.20	42.47	42.61	42.11	42.63	41.83	42.07	42.09	41.96	41.83

ANNUAL MAX MOMENTARY GAGE HEIGHT 42.95 M (MSL), AT 18.00 HOURS, ON DEC 23, 1980
ZERO GAGE AT BOTTOM ELEVATION 41.00 M (MSL), RIVER BED 40.61 M (MSL)
LEFT BANK ELEVATION 47.84 M (MSL)
RIGHT BANK ELEVATION 48.27 M (MSL), DRAINAGE AREA 2244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	27.99	23.20	22.40	19.28	23.60	32.99	39.50	32.08	32.54	11.40	14.55	10.23	
2	28.44	23.20	22.40	18.90	24.00	32.54	39.50	33.44	32.54	9.69	14.55	10.23	
3	28.44	23.20	22.40	19.28	24.00	32.54	42.00	32.54	32.54	11.40	14.55	10.23	
4	28.89	23.20	22.40	19.28	24.00	31.62	42.50	32.99	32.54	11.40	14.55	12.60	
5	29.35	23.20	22.40	18.90	24.00	31.17	41.50	33.44	32.54	11.40	14.55	12.60	
6	29.35	23.60	22.40	18.52	24.00	31.17	40.50	33.90	32.54	11.40	10.80	12.60	
7	32.99	24.80	22.40	18.52	27.07	31.17	40.00	33.90	32.54	11.40	10.80	11.40	
8	30.71	27.07	22.40	18.52	30.71	30.71	39.00	33.90	32.99	11.40	10.80	11.40	
9	31.17	26.62	22.40	18.52	30.71	29.80	39.00	33.90	33.90	11.40	10.80	11.40	
10	31.62	25.71	22.40	18.52	30.71	29.80	39.00	33.44	33.90	11.40	10.50	11.40	
11	31.17	25.71	22.40	18.52	30.26	32.08	39.00	33.44	24.40	11.40	10.50	11.40	
12	31.62	25.71	22.80	18.52	28.89	38.50	39.00	34.36	22.00	11.40	10.50	11.40	
13	32.54	25.71	22.80	18.52	28.44	38.50	39.50	35.28	21.20	11.10	10.50	11.40	
14	31.62	25.25	22.80	18.14	28.44	38.50	40.00	33.90	20.80	10.80	10.50	11.40	
15	32.08	25.25	22.00	17.76	28.44	38.04	40.50	33.90	20.80	10.80	10.50	11.40	
16	32.54	25.25	21.20	13.85	28.44	40.00	40.00	32.99	19.28	10.80	10.50	14.20	
17	32.99	24.80	20.80	17.00	28.89	39.00	27.53	32.99	12.90	10.80	10.50	6.76	
18	32.99	24.80	20.80	17.76	28.89	36.20	27.53	33.44	5.20	10.80	10.50	9.15	
19	32.54	24.80	20.80	28.44	28.89	38.04	27.07	34.36	16.65	10.80	10.50	29.80	
20	32.99	24.80	20.80	28.44	28.89	38.04	27.53	34.36	10.80	10.80	10.50	22.80	
21	20.04	24.40	20.80	16.30	28.89	40.00	28.89	34.36	10.80	9.96	10.50	10.50	
22	4.52	22.80	20.80	14.20	28.89	38.50	23.20	34.36	10.80	12.30	10.50	10.50	
23	23.60	22.00	21.20	13.50	28.89	38.50	12.60	34.36	15.25	12.30	10.50	10.50	
24	23.60	22.00	20.42	14.20	28.89	38.50	12.00	34.36	4.01	12.30	10.50	10.50	
25	24.00	22.00	20.42	23.20	28.89	38.50	12.30	30.71	11.40	12.30	10.50	10.50	
26	23.20	22.40	20.42	24.00	29.35	39.00	10.80	31.17	11.40	12.30	10.50	6.76	
27	22.80	22.40	20.04	24.00	28.44	39.50	12.30	31.17	11.40	12.30	10.23	12.00	
28	24.40	22.40	19.66	24.00	28.44	39.00	12.30	31.62	11.40	12.60	10.50	10.50	
29	24.40	22.40	19.66	23.60	27.53	39.50	12.90	31.62	11.40	14.55		10.50	
30	24.80	22.40	19.66	24.00	27.99	39.50	13.85	31.62	11.40	14.55		10.50	
31		22.40		23.60	30.26		27.07		11.40	14.55		10.50	
TOTAL	837.39	743.48	644.28	609.79	867.73	1080.91	928.37	997.90	623.26	361.80	315.18	367.06	8377.14 CMSDAY
MEAN	27.91	23.98	21.48	19.67	27.99	36.03	29.95	33.26	20.11	11.67	11.26	11.84	22.95 CMS
MAX	32.99	27.07	22.80	28.44	30.71	40.00	42.50	35.28	33.90	14.55	14.55	29.80	42.50 CMS
MIN	4.52	22.00	19.66	13.50	23.60	29.80	10.80	30.71	4.01	9.69	10.23	6.76	4.01 CMS
RUNOFF	72.350	64.237	55.666	52.686	74.972	93.391	80.211	86.218	53.850	31.259	27.232	31.714	723.784 MCM

MOMENTARY PEAK 46.00 CMS, AT 42.95 M (MSL), AT 18.00 HOURS, ON DEC 23, 1980

RUNOFF YIELD 10.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 20.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PHETCHABURI RIVER BASIN

PHETCHABURI RIVER AT BAN WANG WON, PHETCHABURI (B.5)

LOCATION — LAT. 12°-54'-40" N., LONG. 99°-38'-38" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM KAENG KRACHAN RESERVOIR, AMPHOE THA YANG, PHETCHABURI.

DRAINAGE AREA — 2,207 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +48.485 M.(M.S.L.)

BENCH MARK — B.M.-H.D. NO.11

LOCATION — BEHIND THE B.5 STATION OFFICE.

ELEVATION — +59.967 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1962 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1962 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1962 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 20 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

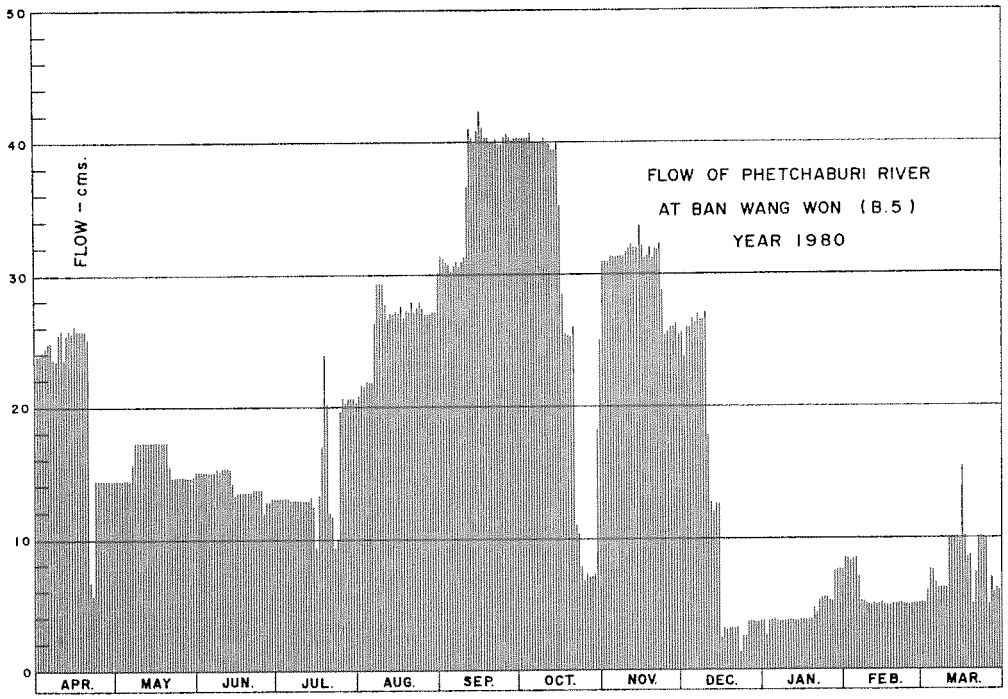
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	49.15	48.80	48.83	48.74	49.05	49.38	49.63	49.37	49.21	48.19	48.51	48.30	
2	49.15	48.80	48.83	48.74	49.07	49.38	49.63	49.37	49.15	48.08	48.51	48.30	
3	49.16	48.80	48.83	48.74	49.07	49.37	49.63	49.37	49.22	48.19	48.50	48.35	
4	49.17	48.80	48.83	48.74	49.08	49.37	49.63	49.38	49.22	48.19	48.51	48.46	
5	49.18	48.80	48.83	48.74	49.08	49.35	49.64	49.38	49.24	48.20	48.51	48.46	
6	49.18	48.80	48.83	48.73	49.08	49.36	49.62	49.38	49.23	48.20	48.39	48.41	
7	49.14	48.87	48.83	48.73	49.22	49.37	49.62	49.38	49.25	48.20	48.31	48.37	
8	49.14	48.92	48.84	48.73	49.32	49.36	49.62	49.38	49.24	48.20	48.31	48.37	
9	49.20	48.92	48.83	48.73	49.32	49.37	49.62	49.38	49.24	48.19	48.30	48.37	
10	49.21	48.92	48.84	48.73	49.32	49.38	49.63	49.39	49.25	48.19	48.29	48.37	
11	49.14	48.92	48.84	48.73	49.28	49.53	49.62	49.40	48.96	48.20	48.29	48.59	
12	49.20	48.92	48.84	48.73	49.24	49.65	49.62	49.41	48.73	48.20	48.30	48.59	
13	49.21	48.92	48.84	48.73	49.25	49.63	49.61	49.40	48.70	48.19	48.30	48.59	
14	49.21	48.92	48.79	48.74	49.25	49.62	49.61	49.40	48.72	48.19	48.30	48.59	
15	49.22	48.92	48.75	48.70	49.26	49.64	49.62	49.45	48.72	48.19	48.31	48.58	
16	49.21	48.92	48.76	48.55	49.25	49.68	49.47	49.41	48.06	48.20	48.29	48.84	
17	49.21	48.92	48.76	48.71	49.27	49.66	49.22	49.38	48.13	48.20	48.29	48.62	
18	49.21	48.92	48.76	48.89	49.24	49.63	49.21	49.38	48.11	48.20	48.29	48.51	
19	49.21	48.92	48.76	49.15	49.26	49.63	49.20	49.40	48.14	48.20	48.30	48.52	
20	49.19	48.92	48.76	49.02	49.28	49.62	49.20	49.38	48.14	48.28	48.30	48.31	
21	48.42	48.86	48.76	48.69	49.28	49.62	49.22	49.40	48.14	48.22	48.30	48.37	
22	48.34	48.81	48.77	48.68	49.26	49.63	49.63	49.40	48.14	48.32	48.31	48.59	
23	48.80	48.81	48.77	48.55	49.27	49.62	48.59	49.41	47.94	48.33	48.30	48.59	
24	48.80	48.81	48.77	48.59	49.28	49.62	48.47	49.30	48.07	48.33	48.29	48.59	
25	48.80	48.81	48.77	49.01	49.27	49.63	48.41	49.20	48.08	48.33	48.30	48.58	
26	48.80	48.81	48.69	49.04	49.25	49.63	48.44	49.21	48.18	48.32	48.30	48.31	
27	48.80	48.81	48.73	49.03	49.25	49.64	48.43	49.22	48.19	48.31	48.30	48.42	
28	48.80	48.81	48.73	49.04	49.25	49.62	48.44	49.22	48.19	48.44	48.31	48.36	
29	48.80	48.81	48.73	49.04	49.26	49.63	48.44	49.23	48.18	48.46		48.37	
30	48.80	48.81	48.74	49.04	49.26	49.63	48.68	49.20	48.18	48.46		48.36	
31		48.83		49.03	49.34		49.23		48.19	48.46		48.56	
MEAN	49.03	48.86	48.79	48.81	49.23	49.54	49.22	49.35	48.59	48.25	48.34	48.47	
MAX	49.22	48.92	48.84	49.15	49.34	49.68	49.64	49.45	49.25	48.46	48.51	48.84	49.68
MIN	48.34	48.80	48.69	48.55	49.05	49.35	48.41	49.20	47.94	48.08	48.29	48.30	47.94

ANNUAL MAX MOMENTARY GAGE HEIGHT 49.78 M (MSL), AT 14.00 HOURS, ON SEP 16, 1980

ZERO GAGE AT BOTTOM ELEVATION 48.48 M (MSL), RIVER BED 47.20 M (MSL)

LEFT BANK ELEVATION 59.50 M (MSL)

RIGHT BANK ELEVATION 54.20 M (MSL), DRAINAGE AREA 2207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	23.90	14.40	15.12	13.08	20.95	31.32	40.27	30.98	25.72	3.70	8.49	5.00	
2	23.90	14.40	15.12	13.08	21.53	31.32	40.27	30.98	23.90	2.60	8.49	5.00	
3	24.20	14.40	15.12	13.08	21.53	30.98	40.27	30.98	26.04	3.70	8.30	5.80	
4	24.50	14.40	15.12	13.08	21.82	30.98	40.27	31.32	26.04	3.70	8.49	7.62	
5	24.80	14.40	15.12	13.08	21.82	30.30	40.66	31.32	26.68	3.80	8.49	7.62	
6	24.80	14.40	15.12	12.86	21.82	30.64	39.88	31.32	26.36	3.80	6.44	6.77	
7	23.60	16.08	15.12	12.86	26.04	30.98	39.88	31.32	27.00	3.80	5.16	6.12	
8	23.60	17.34	15.36	12.86	29.28	30.64	39.88	31.32	26.68	3.80	5.16	6.12	
9	25.40	17.34	15.12	12.86	29.28	30.98	39.88	31.32	26.68	3.70	5.00	6.12	
10	25.72	17.34	15.36	12.86	29.28	31.32	40.27	31.66	27.00	3.70	4.88	6.12	
11	23.60	17.34	15.36	12.86	27.96	36.51	39.88	32.00	18.42	3.80	4.88	10.01	
12	25.40	17.34	15.36	12.86	26.68	41.05	39.88	32.34	12.86	3.80	5.00	10.01	
13	25.72	17.34	15.36	12.86	27.00	40.27	39.49	32.00	12.20	3.70	5.00	10.01	
14	25.72	17.34	14.18	13.08	27.00	39.88	39.49	32.00	12.64	3.70	5.00	10.01	
15	26.04	17.34	13.30	12.20	27.32	40.66	39.88	33.70	12.64	3.70	5.16	9.82	
16	25.72	17.34	13.52	9.25	27.00	42.22	34.38	32.34	2.40	3.80	4.88	15.36	
17	25.72	17.34	13.52	12.42	27.64	41.44	26.04	31.32	3.10	3.80	4.88	10.60	
18	25.72	17.34	13.52	16.56	26.68	40.27	25.72	31.32	2.90	3.80	4.88	8.49	
19	25.72	17.34	13.52	23.90	27.32	40.27	25.40	32.00	3.20	3.80	5.00	8.68	
20	25.10	17.34	13.52	20.08	27.32	39.88	25.40	31.32	3.20	4.76	5.00	5.16	
21	6.94	15.84	13.52	12.00	27.96	39.88	26.04	32.00	3.20	4.04	5.00	6.12	
22	5.64	14.64	13.74	11.80	27.32	40.27	10.80	32.00	3.20	5.32	5.16	10.01	
23	14.40	14.64	13.74	9.25	27.64	39.88	10.01	32.34	1.20	5.48	5.00	10.01	
24	14.40	14.64	13.74	10.01	27.96	39.88	7.79	28.60	2.50	5.48	4.88	10.01	
25	14.40	14.64	13.74	19.79	27.64	40.27	6.77	25.40	2.60	5.48	5.00	9.82	
26	14.40	14.64	12.00	20.66	27.00	40.27	7.28	25.72	3.60	5.32	5.00	5.16	
27	14.40	14.64	12.86	20.37	27.00	40.66	7.11	26.04	3.70	5.16	5.00	6.94	
28	14.40	14.64	12.86	20.66	27.00	39.88	7.28	26.04	3.70	7.28	5.16	5.96	
29	14.40	14.64	12.86	20.66	27.32	40.27	7.28	26.36	3.60	7.62		6.12	
30	14.40	14.64	13.08	20.66	27.32	40.27	16.32	25.40	3.60	7.62		5.96	
31		15.12		20.37	29.96		26.36		3.70	7.62		9.44	
TOTAL	626.66	490.62	424.98	462.00	819.39	1113.44	870.13	912.76	380.26	141.38	158.78	245.99	6646.38 CMSDAY
MEAN	20.89	15.83	14.17	14.90	26.43	37.11	28.07	30.43	12.27	4.56	5.67	7.94	18.21 CMS
MAX	26.04	17.34	15.36	23.90	29.96	42.22	40.66	33.70	27.00	7.62	8.49	15.36	42.22 CMS
MIN	5.64	14.40	12.00	9.25	20.95	30.30	6.77	25.40	1.20	2.60	4.88	5.00	1.20 CMS
RUNOFF	54.143	42.389	36.718	39.917	70.795	96.201	75.179	78.862	32.854	12.215	13.719	21.254	574.247 MCM

MOMENTARY PEAK 46.12 CMS, AT 49.78 M (MSL), AT 14.00 HOURS, ON SEP 16, 1980

RUNOFF YIELD 8.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 20.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PHETCHABURI RIVER BASIN

HUAI MAE PRACHAN AT BAN SA YAI NON, PHETCHABURI (B.6)

LOCATION — LAT. 12°-55'-56" N., LONG. 99°-47'-05" E., ON LEFT BANK ABOUT 250 METERS UPSTREAM FROM THE BRIDGE OF KHUAN PHET-KAENG KRACHAN RESERVOIR ROAD, AMPHOE THA YANG, PHETCHABURI.

DRAINAGE AREA — 1,015 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +22.711 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +30.274 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING MAY 1-JUN.5,1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

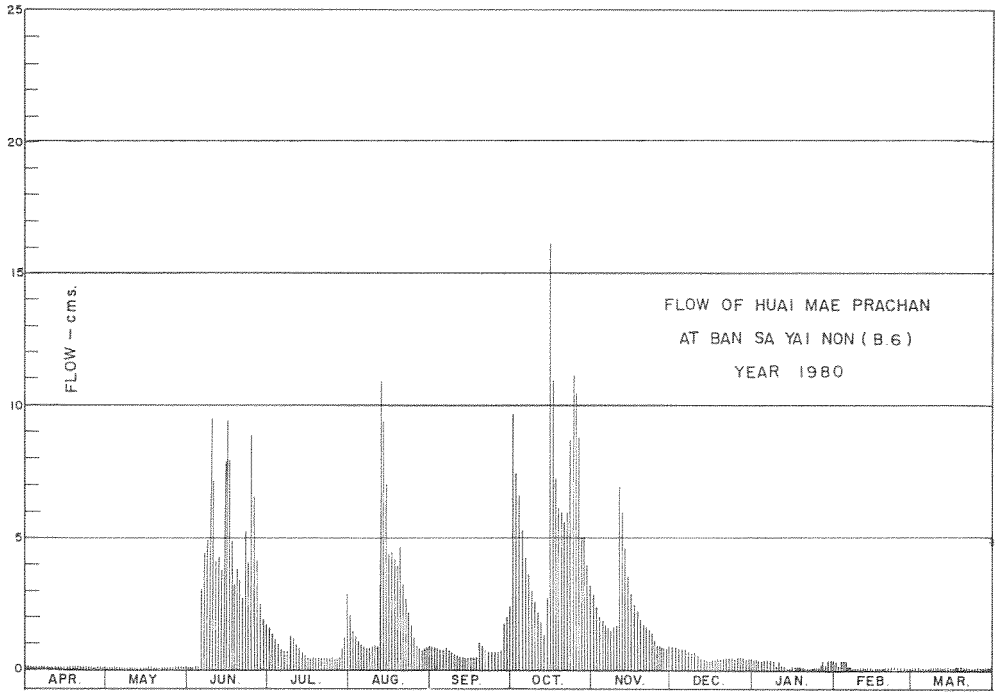
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	22.79	22.71	22.71	23.68	23.75	23.58	23.87	23.83	23.58	23.41	23.32	23.24	
2	22.79	22.71	22.71	23.66	23.68	23.58	24.26	23.81	23.58	23.39	23.31	23.23	
3	22.79	22.71	22.71	23.65	23.65	23.56	24.15	23.75	23.56	23.38	23.30	23.18	
4	22.79	22.71	22.71	23.60	23.62	23.55	24.12	23.73	23.56	23.38	23.31	23.20	
5	22.79	22.71	22.71	23.60	23.60	23.55	24.05	23.72	23.56	23.37	23.31	23.20	
6	22.79	22.71	23.83	23.59	23.58	23.56	23.99	23.70	23.55	23.35	23.30	23.20	
7	22.78	22.71	23.94	23.56	23.57	23.56	23.93	23.69	23.55	23.35	23.26	23.20	
8	22.78	22.71	23.98	23.54	23.57	23.55	23.89	23.66	23.54	23.31	23.27	23.19	
9	22.78	22.71	24.01	23.54	23.57	23.53	23.84	23.68	23.53	23.31	23.28	23.19	
10	22.77	22.71	24.25	23.64	23.57	23.51	23.79	23.68	23.52	23.29	23.28	23.20	
11	22.77	22.71	23.94	23.62	23.59	23.50	23.76	23.96	23.47	23.32	23.28	23.20	
12	22.77	22.71	23.87	23.58	23.57	23.49	23.73	24.12	23.45	23.30	23.27	23.20	
13	22.77	22.71	23.94	23.56	24.32	23.50	23.66	24.00	23.45	23.30	23.28	23.20	
14	22.76	22.71	23.89	23.53	24.17	23.48	23.63	23.93	23.39	23.30	23.27	23.20	
15	22.76	22.71	24.16	23.52	24.07	23.50	23.78	23.85	23.32	23.29	23.27	23.20	
16	22.76	22.71	24.25	23.49	23.94	23.48	24.51	23.81	23.37	23.28	23.27	23.20	
17	22.75	22.71	24.06	23.48	23.95	23.45	24.29	23.77	23.39	23.28	23.27	23.20	
18	22.75	22.71	23.86	23.48	23.94	23.44	24.14	23.76	23.39	23.28	23.27	23.20	
19	22.75	22.71	23.85	23.47	23.91	23.61	24.08	23.73	23.39	23.26	23.27	23.19	
20	22.75	22.71	23.90	23.46	23.97	23.59	24.06	23.70	23.39	23.26	23.25	23.19	
21	22.75	22.71	23.82	23.45	23.87	23.56	24.06	23.68	23.39	23.26	23.24	23.18	
22	22.75	22.71	23.77	23.46	23.80	23.54	24.04	23.68	23.39	23.26	23.24	23.18	
23	22.75	22.71	24.01	23.44	23.75	23.54	24.07	23.67	23.38	23.26	23.25	23.18	
24	22.74	22.71	23.90	23.45	23.70	23.54	24.19	23.64	23.37	23.26	23.25	23.18	
25	22.74	22.71	24.22	23.44	23.65	23.52	24.33	23.59	23.36	23.26	23.25	23.18	
26	22.74	22.71	23.99	23.48	23.60	23.54	24.30	23.59	23.39	23.29	23.25	23.17	
27	22.73	22.71	23.87	23.49	23.57	23.55	24.14	23.58	23.49	23.31	23.24	23.17	
28	22.73	22.71	23.80	23.51	23.54	23.69	24.06	23.57	23.43	23.30	23.24	23.16	
29	22.73	22.71	23.73	23.56	23.55	23.73	24.00	23.57	23.40	23.31		23.14	
30	22.72	22.71	23.71	23.62	23.58	23.70	23.94	23.58	23.40	23.31		23.13	
31		22.71		23.82	23.58		23.88		23.40	23.32		23.12	
MEAN	22.76	22.71	23.74	23.55	23.73	23.55	24.02	23.73	23.45	23.31	23.27	23.19	
MAX	22.79	22.71	24.25	23.82	24.32	23.73	24.51	24.12	23.58	23.41	23.32	23.24	24.51
MIN	22.72	22.71	22.71	23.44	23.54	23.44	23.63	23.57	23.32	23.26	23.24	23.12	22.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 24.53 M (MSL), AT 9.00 HOURS, ON OCT 16, 1980

ZERO GAGE AT BOTTOM ELEVATION 22.71 M (MSL), RIVER BED 22.36 M (MSL)

LEFT BANK ELEVATION 30.47 M (MSL)

RIGHT BANK ELEVATION 29.54 M (MSL), DRAINAGE AREA 1015 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	1.56	2.15	0.90	3.37	2.93	0.90	0.41	0.32	0.02	
2	0.00	0.00	0.00	1.42	1.56	0.90	9.60	2.71	0.90	0.39	0.31	0.01	
3	0.00	0.00	0.00	1.35	1.35	0.80	7.50	2.15	0.80	0.38	0.05	0.00	
4	0.00	0.00	0.00	1.00	1.14	0.75	6.96	1.97	0.80	0.38	0.31	0.00	
5	0.00	0.00	0.00	1.00	1.00	0.75	5.80	1.88	0.80	0.37	0.31	0.00	
6	0.00	0.00	2.93	0.95	0.90	0.80	4.87	1.70	0.75	0.35	0.05	0.00	
7	0.00	0.00	4.22	0.80	0.85	0.80	4.09	1.63	0.75	0.35	0.03	0.00	
8	0.00	0.00	4.74	0.70	0.85	0.75	3.59	1.42	0.70	0.31	0.03	0.00	
9	0.00	0.00	5.16	0.70	0.85	0.65	3.04	1.56	0.65	0.31	0.04	0.00	
10	0.00	0.00	9.40	1.28	0.85	0.55	2.51	1.56	0.60	0.04	0.04	0.00	
11	0.00	0.00	4.22	1.14	0.95	0.50	2.24	4.48	0.47	0.32	0.04	0.00	
12	0.00	0.00	3.37	0.90	0.85	0.49	1.97	6.96	0.45	0.05	0.03	0.00	
13	0.00	0.00	4.22	0.80	10.90	0.50	1.42	5.00	0.45	0.05	0.04	0.00	
14	0.00	0.00	3.59	0.65	7.86	0.48	1.21	4.09	0.39	0.05	0.03	0.00	
15	0.00	0.00	7.68	0.60	6.12	0.50	2.42	3.15	0.32	0.04	0.03	0.00	
16	0.00	0.00	9.40	0.49	4.22	0.48	16.01	2.71	0.37	0.04	0.03	0.00	
17	0.00	0.00	5.96	0.48	4.35	0.45	10.20	2.33	0.39	0.04	0.03	0.00	
18	0.00	0.00	3.26	0.48	4.22	0.44	7.32	2.24	0.39	0.04	0.03	0.00	
19	0.00	0.00	3.15	0.47	3.83	1.07	6.28	1.97	0.39	0.03	0.03	0.00	
20	0.00	0.00	3.70	0.46	4.61	0.95	5.96	1.70	0.39	0.03	0.02	0.00	
21	0.00	0.00	2.82	0.45	3.37	0.80	5.96	1.56	0.39	0.03	0.02	0.00	
22	0.00	0.00	2.33	0.46	2.60	0.70	5.64	1.56	0.39	0.03	0.02	0.00	
23	0.00	0.00	5.16	0.44	2.15	0.70	6.12	1.49	0.38	0.03	0.02	0.00	
24	0.00	0.00	3.70	0.45	1.70	0.70	8.22	1.28	0.37	0.03	0.02	0.00	
25	0.00	0.00	8.80	0.44	1.35	0.60	11.15	0.95	0.36	0.03	0.02	0.00	
26	0.00	0.00	4.87	0.48	1.00	0.70	10.40	0.95	0.39	0.04	0.02	0.00	
27	0.00	0.00	3.37	0.49	0.85	0.75	7.32	0.90	0.49	0.31	0.02	0.00	
28	0.00	0.00	2.60	0.55	0.70	1.63	5.96	0.85	0.43	0.05	0.02	0.00	
29	0.00	0.00	1.97	0.80	0.75	1.97	5.00	0.85	0.40	0.31		0.00	
30	0.00	0.00	1.79	1.14	0.90	1.70	4.22	0.90	0.40	0.31		0.00	
31		0.00		2.82	0.90		3.48		0.40	0.32		0.00	
TOTAL	0.00	0.00	112.41	25.75	75.68	23.76	179.63	65.43	16.06	5.47	1.96	0.03	506.38 CMSDAY
MEAN	0.00	0.00	3.75	0.83	2.44	0.79	5.80	2.18	0.52	0.18	0.07	0.00	1.39 CMS
MAX	0.00	0.00	9.40	2.82	10.90	1.97	16.01	6.96	0.90	0.41	0.32	0.02	16.01 CMS
MIN	0.00	0.00	0.00	0.44	0.70	0.44	1.21	0.85	0.32	0.03	0.02	0.00	0.00 CMS
RUNOFF	0.000	0.000	9.712	2.225	6.539	2.053	15.537	5.653	1.388	0.473	0.169	0.003	43.751 MCM

MOMENTARY PEAK 16.63 CMS, AT 24.53 M (MSL), AT 9.00 HOURS, ON OCT 16, 1980

RUNOFF YIELD 1.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 16.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PHETCHABURI RIVER BASIN

HUAI MAE PRACHAN AT BAN NONG BUA, PHETCHABURI (B.7)

LOCATION — LAT. 13°-01'-45" N., LONG. 99°-44'-00" E., ON LEFT BANK AT BAN NONG BUA, AMPHOE THA YANG, PHETCHABURI.

DRAINAGE AREA — 846 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF B.7 STATION OFFICE.

ELEVATION — +10.495 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

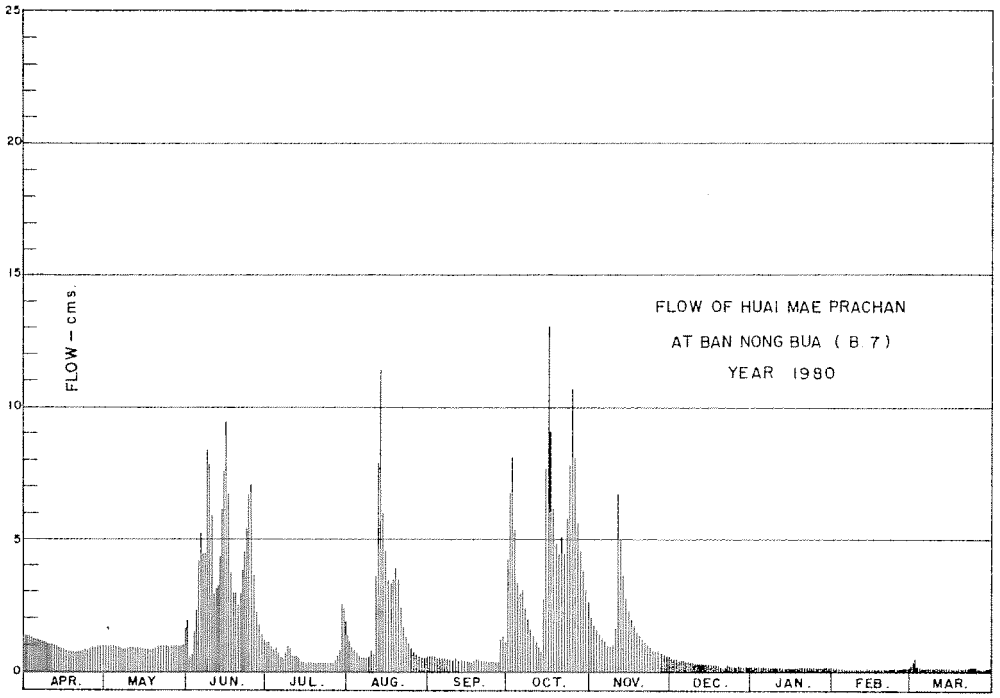
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.21	1.08	1.33	1.15	1.23	0.97	1.74	1.36	0.93	0.67	0.58	0.70	
2	1.20	1.08	0.94	1.14	1.13	0.97	2.20	1.32	0.92	0.67	0.59	0.87	
3	1.18	1.08	0.97	1.08	1.07	0.94	1.88	1.28	0.90	0.66	0.58	0.70	
4	1.17	1.07	1.30	1.04	1.00	0.93	1.66	1.23	0.88	0.66	0.57	0.64	
5	1.16	1.07	1.59	1.07	0.98	0.92	1.54	1.19	0.87	0.66	0.58	0.62	
6	1.15	1.06	1.88	0.97	0.93	0.92	1.57	1.16	0.85	0.66	0.65	0.61	
7	1.14	1.06	1.78	0.92	0.93	0.93	1.45	1.10	0.84	0.66	0.63	0.60	
8	1.13	1.05	1.77	0.90	0.94	0.92	1.37	1.10	0.82	0.65	0.61	0.60	
9	1.12	1.05	2.22	1.08	0.94	0.90	1.28	1.10	0.81	0.65	0.60	0.60	
10	1.11	1.07	2.06	1.09	1.03	0.90	1.22	1.23	0.80	0.66	0.66	0.60	
11	1.10	1.06	1.52	0.99	0.97	0.92	1.17	2.06	0.78	0.66	0.60	0.59	
12	1.08	1.06	1.57	0.94	1.59	0.88	1.11	1.92	0.77	0.65	0.57	0.59	
13	1.07	1.05	1.59	0.98	2.51	0.87	1.03	1.69	0.76	0.65	0.56	0.59	
14	1.05	1.05	1.89	0.87	1.96	0.85	1.02	1.54	0.76	0.65	0.56	0.58	
15	1.04	1.05	2.09	0.82	1.85	0.85	1.99	1.43	0.76	0.63	0.57	0.58	
16	1.03	1.04	2.34	0.82	1.53	0.83	2.64	1.36	0.76	0.63	0.57	0.57	
17	1.03	1.04	1.79	0.83	1.60	0.80	2.17	1.30	0.76	0.63	0.57	0.56	
18	1.02	1.04	1.57	0.81	1.63	0.86	1.96	1.24	0.75	0.62	0.57	0.53	
19	1.01	1.05	1.55	0.80	1.69	0.92	1.80	1.20	0.75	0.63	0.58	0.48	
20	1.01	1.07	1.55	0.78	1.63	0.89	1.78	1.17	0.67	0.63	0.59	0.46	
21	1.01	1.08	1.36	0.78	1.42	0.87	1.86	1.15	0.60	0.63	0.57	0.51	
22	1.01	1.09	1.59	0.78	1.31	0.86	1.71	1.14	0.75	0.63	0.53	0.54	
23	1.02	1.09	1.78	0.77	1.21	0.84	1.97	1.11	0.73	0.57	0.54	0.55	
24	1.03	1.09	1.97	0.77	1.13	0.83	2.10	1.04	0.69	0.57	0.57	0.54	
25	1.03	1.09	2.10	0.80	1.07	0.82	2.44	1.00	0.68	0.58	0.58	0.50	
26	1.04	1.09	1.68	0.82	1.04	0.82	2.15	1.03	0.68	0.58	0.59	0.50	
27	1.05	1.09	1.45	0.82	1.02	0.87	1.93	1.01	0.68	0.57	0.61	0.46	
28	1.06	1.08	1.30	0.93	0.98	1.17	1.81	0.97	0.68	0.56	0.65	0.41	
29	1.07	1.08	1.22	1.02	0.95	1.23	1.70	0.96	0.68	0.56		0.40	
30	1.08	1.08	1.18	1.46	0.92	1.14	1.56	0.95	0.69	0.57		0.46	
31		1.08		1.40	0.93		1.46		0.67	0.58		0.46	
MEAN	1.08	1.07	1.63	0.95	1.26	0.91	1.72	1.24	0.76	0.63	0.59	0.56	
MAX	1.21	1.09	2.34	1.46	2.51	1.23	2.64	2.06	0.93	0.67	0.66	0.87	2.64
MIN	1.01	1.04	0.94	0.77	0.92	0.80	1.02	0.95	0.60	0.56	0.53	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.79 M (A.D), AT 3.00 HOURS, ON OCT 16, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.05 M (A.D)
LEFT BANK ELEVATION 10.69 M (A.D)
RIGHT BANK ELEVATION 6.52 M (A.D), DRAINAGE AREA 846 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.39	0.94	1.88	1.17	1.47	0.64	4.18	2.02	0.56	0.22	0.14	0.25	
2	1.35	0.94	0.58	1.14	1.10	0.64	8.10	1.84	0.54	0.22	0.14	0.45	
3	1.28	0.94	0.64	0.94	0.91	0.58	5.20	1.67	0.50	0.21	0.14	0.25	
4	1.24	0.91	1.75	0.82	0.70	0.56	3.66	1.47	0.47	0.21	0.13	0.19	
5	1.21	0.91	3.24	0.91	0.66	0.54	2.94	1.31	0.45	0.21	0.14	0.17	
6	1.17	0.88	5.20	0.64	0.56	0.54	3.12	1.21	0.42	0.21	0.20	0.16	
7	1.14	0.88	4.46	0.54	0.56	0.56	2.45	1.00	0.41	0.21	0.18	0.15	
8	1.10	0.85	4.39	0.50	0.58	0.54	2.06	1.00	0.38	0.20	0.16	0.15	
9	1.07	0.85	8.30	0.94	0.58	0.50	1.67	1.00	0.36	0.20	0.15	0.15	
10	1.03	0.91	6.74	0.97	0.79	0.50	1.43	1.47	0.35	0.21	0.21	0.15	
11	1.00	0.88	2.82	0.68	0.64	0.54	1.24	6.74	0.33	0.21	0.15	0.14	
12	0.94	0.83	3.12	0.58	3.24	0.47	1.03	5.52	0.32	0.20	0.13	0.14	
13	0.91	0.85	3.24	0.66	11.42	0.45	0.79	3.84	0.31	0.20	0.13	0.14	
14	0.85	0.85	5.27	0.45	5.86	0.42	0.76	2.94	0.31	0.20	0.13	0.14	
15	0.82	0.85	7.01	0.38	4.97	0.42	6.11	2.35	0.31	0.18	0.13	0.14	
16	0.79	0.82	5.54	0.38	2.38	0.39	13.01	2.02	0.31	0.18	0.13	0.13	
17	0.79	0.82	4.53	0.39	3.30	0.35	7.80	1.75	0.31	0.18	0.13	0.13	
18	0.76	0.82	3.12	0.36	3.48	0.44	5.86	1.51	0.30	0.17	0.13	0.11	
19	0.73	0.85	3.00	0.35	3.84	0.54	4.60	1.35	0.30	0.18	0.14	0.09	
20	0.73	0.91	3.00	0.33	3.48	0.49	4.46	1.24	0.22	0.18	0.14	0.08	
21	0.73	0.94	2.02	0.33	2.30	0.45	5.05	1.17	0.15	0.18	0.13	0.10	
22	0.73	0.97	3.24	0.33	1.79	0.44	3.97	1.14	0.30	0.18	0.11	0.12	
23	0.76	0.97	4.46	0.32	1.39	0.41	5.94	1.03	0.28	0.13	0.12	0.12	
24	0.79	0.97	5.94	0.32	1.10	0.39	7.10	0.82	0.24	0.13	0.13	0.12	
25	0.79	0.97	7.10	0.35	0.91	0.38	10.64	0.70	0.23	0.14	0.14	0.10	
26	0.82	0.97	3.78	0.38	0.82	0.38	7.60	0.79	0.23	0.14	0.14	0.10	
27	0.85	0.97	2.45	0.38	0.76	0.45	5.60	0.73	0.23	0.13	0.16	0.08	
28	0.88	0.94	1.75	0.56	0.66	1.24	4.67	0.64	0.23	0.13	0.20	0.06	
29	0.91	0.94	1.43	0.76	0.60	1.47	3.90	0.62	0.23	0.13		0.06	
30	0.94	0.94	1.28	2.50	0.54	1.14	3.06	0.60	0.24	0.13		0.08	
31		0.94		2.20	0.56		2.59		0.22	0.14		0.08	
TOTAL	28.50	28.06	115.28	21.56	62.45	16.86	140.56	51.49	10.04	5.54	4.06	4.33	488.67 CMSDAY
MEAN	0.95	0.91	3.84	0.70	2.01	0.56	4.53	1.72	0.32	0.18	0.14	0.14	1.34 CMS
MAX	1.39	0.97	9.54	2.50	11.42	1.47	13.01	6.74	0.56	0.22	0.21	0.45	13.01 CMS
MIN	0.73	0.82	0.58	0.32	0.54	0.35	0.76	0.60	0.15	0.13	0.11	0.06	0.06 CMS
RUNOFF	2.462	2.424	9.960	1.863	5.396	1.457	12.139	4.449	0.867	0.479	0.351	0.374	42.221 MCM

MOMENTARY PEAK 14.85 CMS, AT 2.79 M (A.D), AT 3.00 HOURS, ON OCT 16, 1980

RUNOFF YIELD 1.58 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

PHETCHABURI RIVER BASIN

HUAI PHAK AT BAN KARIANG, PHETCHABURI (B.8)

LOCATION — LAT. 12°-48'-49" N., LONG. 99°-41'-32" E., ON LEFT BANK AT BAN KARIANG, TAMBON SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.

DRAINAGE AREA — 264 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — +8.879 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

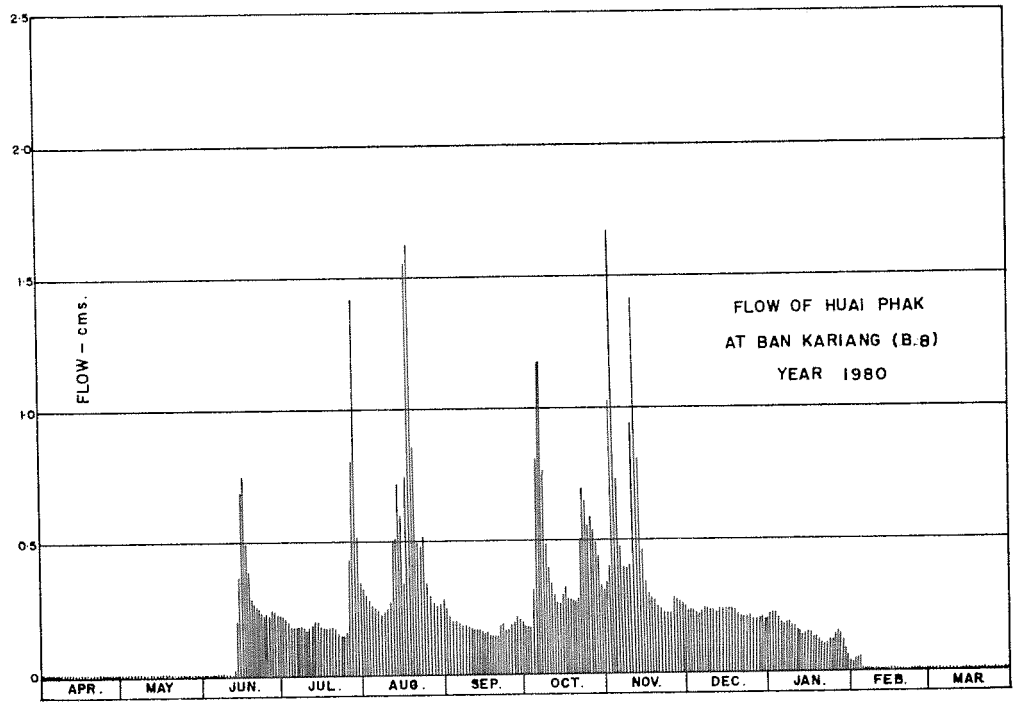
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 85 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.21	1.08	1.08	1.82	1.90	1.85	1.78	1.94	1.84	1.82	1.62	1.32	
2	1.20	1.08	1.09	1.81	1.89	1.82	1.78	2.39	1.84	1.82	1.64	1.38	
3	1.18	1.08	1.09	1.79	1.87	1.80	1.78	2.18	1.83	1.82	1.65	1.39	
4	1.17	1.07	1.11	1.78	1.85	1.80	1.92	2.07	1.83	1.80	1.65	1.38	
5	1.16	1.07	1.12	1.78	1.85	1.80	2.12	2.01	1.82	1.79	1.61	1.38	
6	1.15	1.06	1.14	1.78	1.84	1.79	2.25	1.98	1.84	1.78	1.58	1.38	
7	1.14	1.06	1.15	1.78	1.82	1.79	2.14	1.95	1.84	1.78	1.58	1.38	
8	1.13	1.05	1.16	1.78	1.83	1.79	2.04	1.95	1.85	1.79	1.58	1.38	
9	1.12	1.05	1.17	1.78	1.85	1.78	1.97	1.93	1.84	1.78	1.58	1.38	
10	1.11	1.07	1.17	1.77	1.83	1.77	1.93	2.32	1.83	1.77	1.58	1.38	
11	1.10	1.06	1.17	1.78	1.88	1.77	1.91	2.28	1.82	1.76	1.55	1.38	
12	1.08	1.06	1.17	1.79	2.00	1.77	1.88	2.12	1.83	1.75	1.54	1.36	
13	1.07	1.05	1.17	1.80	2.01	1.76	1.86	2.04	1.84	1.74	1.51	1.38	
14	1.05	1.05	1.82	1.80	2.09	1.76	1.86	1.98	1.84	1.74	1.49	1.35	
15	1.04	1.05	2.07	1.78	1.95	1.75	1.89	1.94	1.84	1.75	1.48	1.33	
16	1.03	1.04	2.10	1.73	1.92	1.77	1.91	1.91	1.84	1.75	1.46	1.32	
17	1.03	1.04	2.01	1.78	2.35	1.75	1.88	1.89	1.84	1.73	1.46	1.31	
18	1.02	1.04	1.95	1.78	2.38	1.75	1.86	1.88	1.84	1.73	1.46	1.29	
19	1.01	1.05	1.90	1.78	2.15	1.74	1.87	1.87	1.83	1.73	1.45	1.27	
20	1.01	1.07	1.87	1.78	2.06	1.74	1.87	1.85	1.82	1.72	1.44	1.24	
21	1.01	1.08	1.86	1.77	2.00	1.78	1.88	1.84	1.81	1.70	1.41	1.21	
22	1.01	1.09	1.85	1.76	1.99	1.79	2.08	1.83	1.81	1.70	1.37	1.20	
23	1.02	1.09	1.84	1.75	2.01	1.76	2.06	1.83	1.80	1.72	1.38	1.20	
24	1.03	1.09	1.92	1.75	1.94	1.77	2.02	1.82	1.82	1.71	1.38	1.20	
25	1.03	1.09	1.84	1.75	1.91	1.78	2.04	1.85	1.80	1.72	1.39	1.20	
26	1.04	1.09	1.82	1.76	1.89	1.79	2.02	1.89	1.80	1.74	1.40	1.18	
27	1.05	1.09	1.85	2.12	1.87	1.82	2.01	1.88	1.80	1.75	1.40	1.16	
28	1.06	1.08	1.84	2.32	1.86	1.81	1.98	1.87	1.81	1.73	1.37	1.14	
29	1.07	1.08	1.83	2.01	1.86	1.79	1.94	1.86	1.81	1.72		1.10	
30	1.08	1.09	1.82	1.96	1.88	1.79	1.92	1.85	1.80	1.69		1.09	
31		1.08		1.92	1.86		1.90		1.79	1.64		1.08	
MEAN	1.08	1.07	1.56	1.83	1.95	1.78	1.95	1.97	1.82	1.75	1.50	1.28	
MAX	1.21	1.09	2.10	2.32	2.38	1.85	2.25	2.39	1.85	1.82	1.65	1.39	2.39
MIN	1.01	1.04	1.08	1.75	1.82	1.74	1.78	1.82	1.79	1.64	1.37	1.08	1.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.88 M (A.D), AT 24.00 HOURS, ON JUL 27, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.40 M (A.D)
LEFT BANK ELEVATION 8.56 M (A.D)
RIGHT BANK ELEVATION 8.59 M (A.D), DRAINAGE AREA 264 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.22	0.30	0.25	0.18	0.38	0.24	0.22	0.02	0.00	
2	0.00	0.00	0.00	0.21	0.29	0.22	0.18	1.67	0.24	0.22	0.04	0.00	
3	0.00	0.00	0.00	0.19	0.27	0.20	0.18	0.95	0.23	0.22	0.05	0.00	
4	0.00	0.00	0.00	0.18	0.25	0.20	0.34	0.67	0.23	0.20	0.05	0.00	
5	0.00	0.00	0.00	0.18	0.25	0.20	0.80	0.52	0.22	0.19	0.01	0.00	
6	0.00	0.00	0.00	0.18	0.24	0.19	1.18	0.46	0.24	0.18	0.00	0.00	
7	0.00	0.00	0.00	0.18	0.22	0.19	0.85	0.40	0.24	0.18	0.00	0.00	
8	0.00	0.00	0.00	0.18	0.23	0.19	0.60	0.40	0.25	0.19	0.00	0.00	
9	0.00	0.00	0.00	0.18	0.25	0.18	0.44	0.36	0.24	0.18	0.00	0.00	
10	0.00	0.00	0.00	0.17	0.23	0.17	0.36	1.42	0.23	0.17	0.00	0.00	
11	0.00	0.00	0.00	0.18	0.28	0.17	0.32	1.28	0.22	0.16	0.00	0.00	
12	0.00	0.00	0.00	0.19	0.50	0.17	0.28	0.80	0.23	0.15	0.00	0.00	
13	0.00	0.00	0.00	0.20	0.52	0.16	0.26	0.60	0.24	0.14	0.00	0.00	
14	0.00	0.00	0.22	0.20	0.72	0.16	0.26	0.46	0.24	0.14	0.00	0.00	
15	0.00	0.00	0.67	0.18	0.40	0.15	0.29	0.38	0.24	0.15	0.00	0.00	
16	0.00	0.00	0.75	0.18	0.34	0.17	0.32	0.32	0.24	0.15	0.00	0.00	
17	0.00	0.00	0.52	0.18	1.53	0.15	0.28	0.29	0.24	0.13	0.00	0.00	
18	0.00	0.00	0.40	0.18	1.63	0.15	0.28	0.28	0.24	0.13	0.00	0.00	
19	0.00	0.00	0.30	0.18	0.87	0.14	0.27	0.27	0.23	0.13	0.00	0.00	
20	0.00	0.00	0.27	0.18	0.70	0.14	0.27	0.25	0.22	0.12	0.00	0.00	
21	0.00	0.00	0.26	0.17	0.50	0.18	0.28	0.24	0.21	0.10	0.00	0.00	
22	0.00	0.00	0.25	0.16	0.48	0.19	0.70	0.23	0.21	0.10	0.00	0.00	
23	0.00	0.00	0.24	0.15	0.52	0.16	0.65	0.23	0.20	0.12	0.00	0.00	
24	0.00	0.00	0.22	0.15	0.38	0.17	0.55	0.22	0.22	0.11	0.00	0.00	
25	0.00	0.00	0.24	0.15	0.32	0.18	0.60	0.25	0.20	0.12	0.00	0.00	
26	0.00	0.00	0.22	0.16	0.29	0.19	0.55	0.29	0.20	0.14	0.00	0.00	
27	0.00	0.00	0.25	0.80	0.27	0.22	0.52	0.28	0.20	0.15	0.00	0.00	
28	0.00	0.00	0.24	1.42	0.26	0.21	0.46	0.27	0.21	0.13	0.00	0.00	
29	0.00	0.00	0.23	0.52	0.26	0.19	0.38	0.26	0.21	0.12		0.00	
30	0.00	0.00	0.22	0.42	0.28	0.19	0.34	0.25	0.20	0.09		0.00	
31		0.00		0.34	0.26		0.30		0.19	0.04		0.00	
TOTAL	0.00	0.00	5.50	8.16	13.84	5.43	13.27	14.68	6.95	4.57	0.17	0.00	72.57 CMSDAY
MEAN	0.00	0.00	0.18	0.26	0.45	0.18	0.43	0.49	0.22	0.15	0.01	0.00	0.20 CMS
MAX	0.00	0.00	0.75	1.42	1.63	0.25	1.18	1.67	0.25	0.22	0.05	0.00	1.67 CMS
MIN	0.00	0.00	0.00	0.15	0.22	0.14	0.18	0.22	0.19	0.04	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.475	0.705	1.196	0.469	1.147	1.268	0.600	0.395	0.015	0.000	6.270 MCM

MOMENTARY PEAK 11.84 CMS, AT 3.88 M (A.D), AT 24.00 HOURS, ON JUL 27, 1980
RUNOFF YIELD 0.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 44.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WEST COAST-GULF BASIN

KHLONG KUI AT BAN PONG KASANG, PRACHUAP KHIRI KHAN (KY.2)

LOCATION — LAT. 12°-06'-55" N., LONG. 99°-44'-20" E., ON RIGHT BANK AT THE CULVERT OF THE LEFT IRRIGATION CANAL OF YANG CHUM PROJECT, BAN PONG KASANG, TAMBON HAD KHAM, AMPHOE KUI BURI, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 92 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE FOOT OF THE SLING POLE.

ELEVATION — +7.405 M. (A.D.)

GAGE READING FREQUENCY — 8-16 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 8-16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

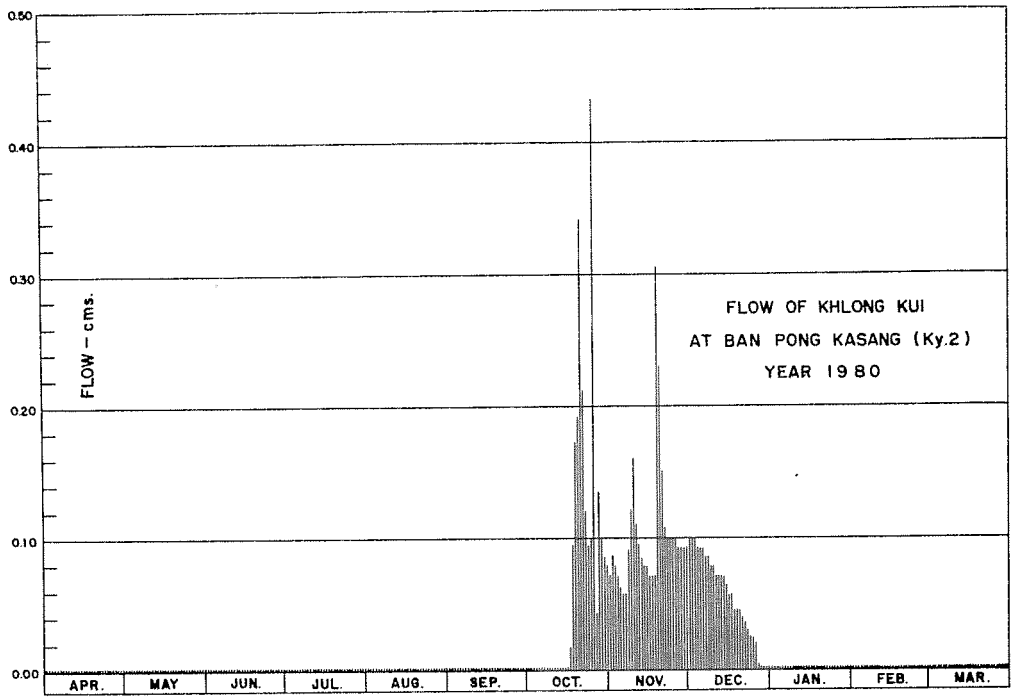
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-OCT.14,1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.57	0.39	0.34	0.24	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.57	0.39	0.34	0.23	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.57	0.39	0.34	0.23	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.56	0.39	0.34	0.22	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.56	0.39	0.33	0.22	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.56	0.39	0.32	0.21	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.55	0.39	0.32	0.21	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.55	0.38	0.32	0.20	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.54	0.38	0.32	0.19	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.53	0.37	0.32	0.19	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.53	0.37	0.32	0.18	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.53	0.37	0.32	0.18	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.53	0.37	0.32	0.17	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.52	0.37	0.32	0.16	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.54	0.51	0.37	0.32	0.15	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.53	0.51	0.37	0.31	0.15	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.53	0.49	0.37	0.31	0.14	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.53	0.49	0.37	0.31	0.14	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.73	0.49	0.37	0.30	0.13	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.66	0.48	0.37	0.30	0.13	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.61	0.47	0.36	0.30	0.12	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.58	0.46	0.36	0.29	0.12	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.57	0.45	0.36	0.29	0.11	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.57	0.45	0.36	0.28	0.10	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.57	0.44	0.35	0.27	0.10	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.57	0.41	0.35	0.27	0.09	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.56	0.40	0.35	0.26	0.09	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.56	0.39	0.35	0.25	0.09	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.56	0.39	0.34		0.08	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.56	0.39	0.34		0.07	
31		0.00		0.00	0.00		0.54		0.39	0.34		0.06	
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.56	0.49	0.37	0.31	0.15	
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.73	0.57	0.39	0.34	0.24	0.80
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.39	0.34	0.25	0.06	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 0.86 M (A.D), AT 12.00 HOURS, ON OCT 26, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 5.19 M (A.D)
RIGHT BANK ELEVATION 7.35 M (A.D), DRAINAGE AREA 92 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.099	0.000	0.000	0.000	
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.099	0.000	0.000	0.000	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.099	0.000	0.000	0.000	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.092	0.000	0.000	0.000	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.092	0.000	0.000	0.000	
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.092	0.000	0.000	0.000	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.085	0.000	0.000	0.000	
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.085	0.000	0.000	0.000	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.078	0.000	0.000	0.000	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.159	0.071	0.000	0.000	0.000	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.113	0.071	0.000	0.000	0.000	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.099	0.071	0.000	0.000	0.000	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.071	0.000	0.000	0.000	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.064	0.000	0.000	0.000	
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.057	0.000	0.000	0.000	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.057	0.000	0.000	0.000	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.045	0.000	0.000	0.000	
18	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.071	0.045	0.000	0.000	0.000	
19	0.000	0.000	0.000	0.000	0.000	0.000	0.172	0.304	0.045	0.000	0.000	0.000	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.198	0.040	0.000	0.000	0.000	
21	0.000	0.000	0.000	0.000	0.000	0.000	0.340	0.133	0.035	0.000	0.000	0.000	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.211	0.106	0.030	0.000	0.000	0.000	
23	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.099	0.025	0.000	0.000	0.000	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.099	0.025	0.000	0.000	0.000	
25	0.000	0.000	0.000	0.000	0.000	0.000	0.099	0.099	0.020	0.000	0.000	0.000	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.430	0.099	0.005	0.000	0.000	0.000	
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	
28	0.000	0.000	0.000	0.000	0.000	0.000	0.133	0.092	0.000	0.000	0.000	0.000	
29	0.000	0.000	0.000	0.000	0.000	0.000	0.099	0.092	0.000	0.000		0.000	
30	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.092	0.000	0.000		0.000	
31		0.000		0.000	0.000		0.078		0.000	0.000		0.000	
TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	2.009	2.990	1.598	0.000	0.000	0.000	6.597 CMSDAY
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.100	0.052	0.000	0.000	0.000	0.018 CMS
MAX	0.000	0.000	0.000	0.000	0.000	0.000	0.430	0.304	0.099	0.000	0.000	0.000	0.430 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.000	0.000	0.000	0.000	0.000 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000	0.174	0.258	0.138	0.000	0.000	0.000	0.570 MCM

MOMENTARY PEAK 0.54 CMS, AT 0.86 M (A.D), AT 12.00 HOURS, ON OCT 26, 1980

RUNOFF YIELD 0.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 5.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WEST COAST-GULF BASIN

KHLONG BUNG AT BAN WANG SAI DING, PRACHUAP KHIRI KHAN (GT.5)

LOCATION — LAT. 11°-55'-46" N., LONG. 99°-42'-56" E., ON RIGHT BANK AT BAN WANG SAI DING, TAMBON AO NOI, AMPHOE MUANG, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 141 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 3 METERS EAST OF STATION OFFICE.

ELEVATION — +5.665 M. (A.D.)

GAGE READING FREQUENCY — 16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1975 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1975-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1975-1979

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1979.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-SEP.8,1980 AND FEB.26-MAR.31,1981

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

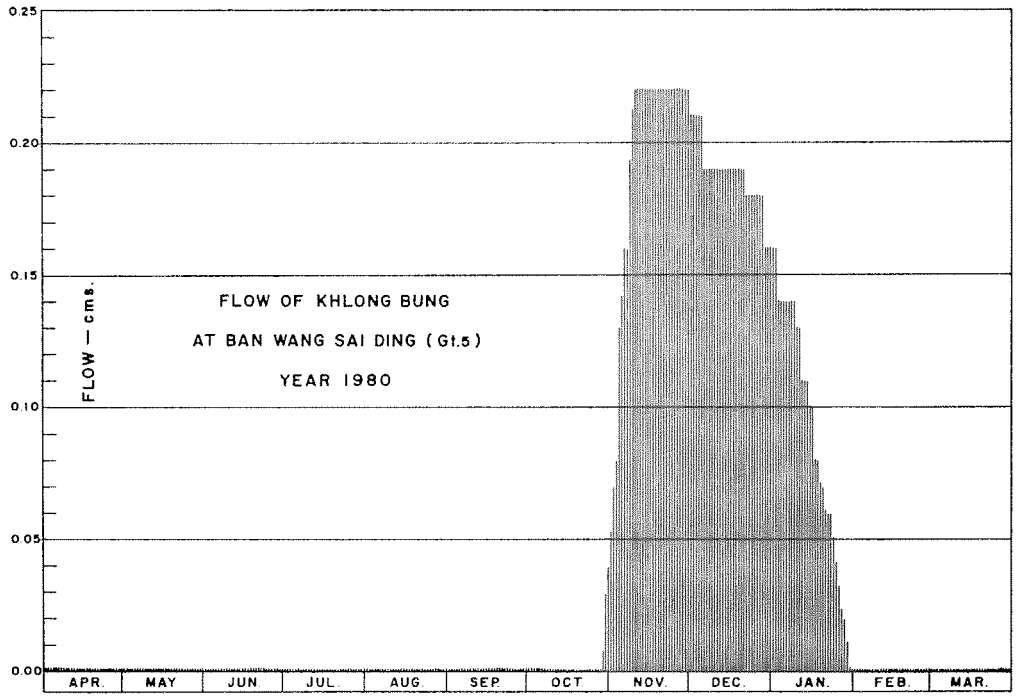
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	1.14	1.87	1.98	1.95	1.80	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	1.15	1.90	1.98	1.95	1.78	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	1.17	1.90	1.98	1.94	1.74	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.93	1.98	1.94	1.68	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	1.23	1.94	1.98	1.94	1.61	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	1.32	1.95	1.97	1.94	1.54	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.95	1.97	1.94	1.41	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	1.29	1.97	1.97	1.94	1.26	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.01	1.29	1.98	1.97	1.94	1.05	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.08	1.34	1.99	1.97	1.93	0.89	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.11	1.33	1.99	1.97	1.93	0.74	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.17	1.34	1.99	1.97	1.92	0.62	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.24	1.36	1.99	1.97	1.92	0.54	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.30	1.38	1.99	1.97	1.92	0.47	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.34	1.46	1.99	1.97	1.91	0.40	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.38	1.54	1.99	1.97	1.91	0.34	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.43	1.52	1.99	1.97	1.90	0.29	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.47	1.53	1.99	1.97	1.90	0.24	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.52	1.55	1.99	1.97	1.89	0.20	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.57	1.57	1.99	1.97	1.89	0.15	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.63	1.60	1.99	1.97	1.88	0.11	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.70	1.62	1.99	1.96	1.88	0.08	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.77	1.64	1.99	1.96	1.87	0.06	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.87	1.65	1.99	1.96	1.86	0.04	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.93	1.66	1.99	1.96	1.85	0.01	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.99	1.68	1.99	1.96	1.84	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	1.03	1.75	1.99	1.96	1.83	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	1.06	1.78	1.99	1.96	1.82	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	1.08	1.81	1.99	1.95	1.81		0.00	
30	0.00	0.00	0.00	0.00	0.00	1.11	1.84	1.99	1.95	1.80		0.00	
31		0.00		0.00	0.00		1.85		1.95	1.79		0.00	
MEAN	0.00	0.00	0.00	0.00	0.00	0.43	1.48	1.97	1.97	1.89	0.68	0.00	
MAX	0.00	0.00	0.00	0.00	0.00	1.11	1.85	1.99	1.98	1.95	1.80	0.00	1.99
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.14	1.87	1.95	1.79	0.00	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.99 M (A.D), AT 3.00 HOURS, ON NOV 30, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.00 M (A.D)

LEFT BANK ELEVATION — 5.35 M (A.D)

RIGHT BANK ELEVATION — 5.61 M (A.D), DRAINAGE AREA — 141 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.21	0.16	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.21	0.16	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.21	0.14	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.21	0.14	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.21	0.14	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.19	0.14	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.19	0.14	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.14	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.19	0.14	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.13	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.13	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.11	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.11	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.11	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.10	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.10	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.08	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.08	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.07	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.07	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.19	0.06	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.18	0.06	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.18	0.06	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.18	0.05	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.18	0.04	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.18	0.03	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.18	0.02	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.18	0.02	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.22	0.16	0.01		0.00	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.22	0.16	0.00		0.00	
31		0.00		0.00	0.00		0.04		0.16	0.00		0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.08	5.83	5.83	2.74	0.00	0.00	14.48 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.09	0.00	0.00	0.04 CMS
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.22	0.21	0.16	0.00	0.00	0.22 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.16	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.504	0.504	0.237	0.000	0.000	1.251 MCM

MOMENTARY PEAK 0.22 CMS, AT 1.99 M (A.D), AT 3.00 HOURS, ON NOV 30, 1980

RUNOFF YIELD 0.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WEST COAST-GULF BASIN

KHLONG YANG KHWANG AT BAN RAI NAI, PRACHUAP KHIRI KHAN (GT.6)

LOCATION — LAT. 11°10'31" N., LONG. 99°21'27" E., ON LEFT BANK AT BAN RAI NAI, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 37 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK NEAR THE METEOROLOGICAL STATION.

ELEVATION — +15.345 M. (A.D.)

GAGE READING FREQUENCY — 16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

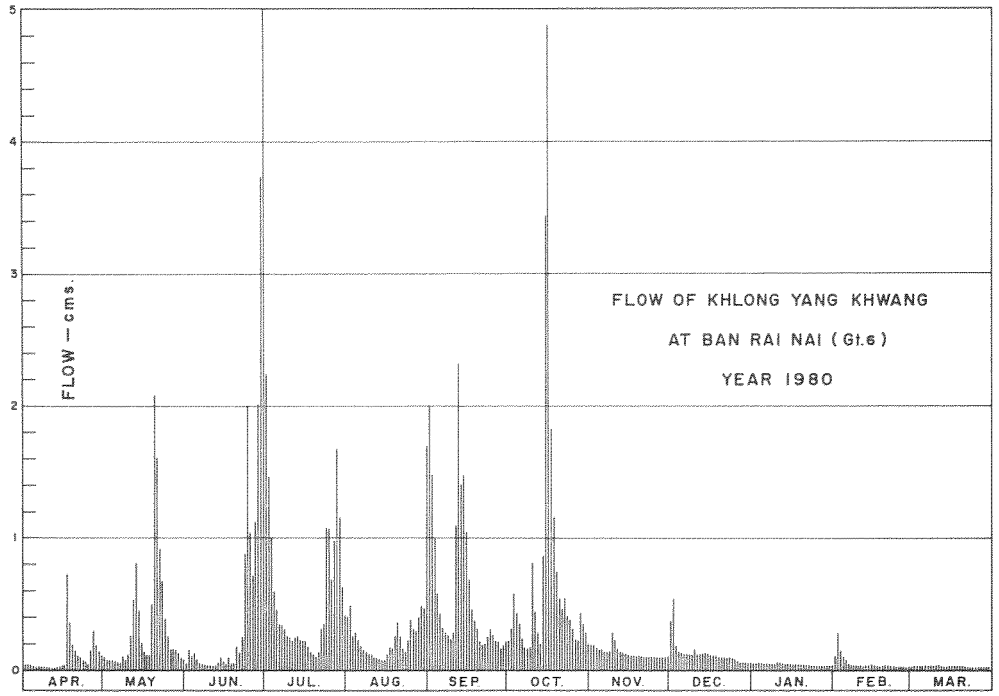
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 125 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.63	0.61	1.07	0.77	1.05	0.71	0.70	0.76	0.61	0.64	0.57	
2	0.58	0.62	0.66	0.98	0.80	0.98	0.75	0.70	0.81	0.61	0.73	0.57	
3	0.57	0.62	0.64	0.90	0.75	0.89	0.82	0.68	0.68	0.61	0.66	0.57	
4	0.56	0.62	0.65	0.83	0.73	0.82	0.77	0.68	0.66	0.61	0.63	0.58	
5	0.54	0.62	0.62	0.79	0.71	0.78	0.75	0.68	0.65	0.61	0.61	0.58	
6	0.52	0.61	0.61	0.75	0.69	0.75	0.71	0.67	0.65	0.61	0.60	0.58	
7	0.51	0.61	0.60	0.75	0.68	0.73	0.69	0.67	0.65	0.61	0.60	0.58	
8	0.49	0.63	0.60	0.74	0.66	0.73	0.68	0.67	0.65	0.61	0.59	0.58	
9	0.48	0.62	0.59	0.72	0.65	0.71	0.69	0.73	0.66	0.61	0.59	0.58	
10	0.46	0.65	0.58	0.72	0.64	0.73	0.87	0.71	0.67	0.61	0.59	0.58	
11	0.45	0.71	0.58	0.71	0.64	0.90	0.77	0.68	0.65	0.61	0.59	0.58	
12	0.44	0.80	0.59	0.72	0.64	1.09	0.73	0.67	0.65	0.61	0.60	0.58	
13	0.55	0.87	0.62	0.72	0.63	0.97	0.70	0.66	0.66	0.60	0.60	0.57	
14	0.57	0.78	0.63	0.71	0.62	0.98	0.85	0.66	0.65	0.60	0.60	0.57	
15	0.58	0.71	0.61	0.71	0.62	0.90	1.18	0.65	0.65	0.60	0.60	0.57	
16	0.58	0.67	0.60	0.71	0.65	0.83	1.33	0.65	0.64	0.60	0.59	0.57	
17	0.85	0.64	0.63	0.69	0.69	0.79	1.04	0.65	0.64	0.60	0.59	0.57	
18	0.73	0.64	0.61	0.66	0.69	0.76	0.93	0.64	0.64	0.59	0.59	0.57	
19	0.69	0.84	0.61	0.65	0.73	0.74	0.85	0.64	0.63	0.59	0.59	0.56	
20	0.65	1.06	0.69	0.64	0.76	0.71	0.81	0.64	0.63	0.59	0.58	0.56	
21	0.64	1.00	0.66	0.66	0.72	0.70	0.78	0.64	0.63	0.59	0.58	0.56	
22	0.63	0.89	0.68	0.74	0.68	0.70	0.81	0.64	0.63	0.59	0.58	0.56	
23	0.62	0.81	0.81	0.74	0.67	0.72	0.77	0.64	0.63	0.59	0.58	0.55	
24	0.61	0.75	1.05	0.92	0.71	0.74	0.76	0.64	0.63	0.59	0.58	0.55	
25	0.60	0.71	0.91	0.92	0.76	0.73	0.73	0.64	0.63	0.58	0.57	0.55	
26	0.67	0.67	0.85	0.84	0.74	0.71	0.71	0.63	0.62	0.58	0.57	0.55	
27	0.73	0.67	0.93	0.91	0.74	0.71	0.71	0.63	0.61	0.58	0.57	0.55	
28	0.69	0.67	1.04	1.01	0.76	0.69	0.78	0.63	0.61	0.58	0.57	0.55	
29	0.65	0.64	1.20	0.91	0.80	0.69	0.73	0.63	0.61	0.58		0.55	
30	0.64	0.63	1.36	0.83	0.79	0.71	0.72	0.63	0.61	0.58		0.55	
31		0.62		0.77	1.00		0.70		0.61	0.57		0.55	
MEAN	0.60	0.71	0.73	0.79	0.71	0.80	0.80	0.66	0.65	0.60	0.60	0.57	
MAX	0.85	1.06	1.36	1.07	1.00	1.09	1.33	0.73	0.81	0.61	0.73	0.58	1.36
MIN	0.44	0.61	0.58	0.64	0.62	0.69	0.68	0.63	0.61	0.57	0.57	0.55	0.44

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.70 M (A.D), AT 21.00 HOURS, ON JUN 23, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 15.15 M (A.D)
RIGHT BANK ELEVATION 6.07 M (A.D), DRAINAGE AREA 37 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.10	0.06	2.16	0.41	2.00	0.23	0.20	0.38	0.06	0.11	0.03	
2	0.04	0.08	0.14	1.47	0.50	1.47	0.35	0.20	0.54	0.06	0.29	0.03	
3	0.03	0.08	0.11	0.95	0.35	0.90	0.59	0.17	0.17	0.06	0.14	0.03	
4	0.03	0.08	0.13	0.63	0.29	0.59	0.41	0.17	0.14	0.06	0.10	0.04	
5	0.02	0.08	0.08	0.47	0.23	0.44	0.35	0.17	0.13	0.06	0.06	0.04	
6	0.01	0.06	0.06	0.35	0.18	0.35	0.23	0.15	0.13	0.06	0.05	0.04	
7	0.00	0.06	0.05	0.35	0.17	0.29	0.18	0.15	0.13	0.06	0.05	0.04	
8	0.00	0.10	0.05	0.32	0.14	0.29	0.17	0.15	0.13	0.06	0.04	0.04	
9	0.00	0.08	0.04	0.26	0.13	0.23	0.18	0.29	0.14	0.06	0.04	0.04	
10	0.00	0.13	0.04	0.26	0.11	0.29	0.81	0.23	0.15	0.06	0.04	0.04	
11	0.00	0.23	0.04	0.23	0.11	0.95	0.41	0.17	0.13	0.06	0.04	0.04	
12	0.00	0.50	0.04	0.26	0.11	2.32	0.29	0.15	0.13	0.06	0.05	0.04	
13	0.02	0.81	0.08	0.26	0.10	1.40	0.20	0.14	0.14	0.05	0.05	0.03	
14	0.03	0.44	0.10	0.23	0.08	1.47	0.72	0.14	0.13	0.05	0.05	0.03	
15	0.04	0.23	0.06	0.23	0.08	0.95	3.16	0.13	0.13	0.05	0.05	0.03	
16	0.04	0.15	0.05	0.23	0.13	0.63	4.87	0.13	0.11	0.05	0.04	0.03	
17	0.72	0.11	0.10	0.18	0.18	0.47	1.92	0.13	0.11	0.05	0.04	0.03	
18	0.29	0.11	0.06	0.14	0.18	0.38	1.14	0.11	0.11	0.04	0.04	0.03	
19	0.18	0.68	0.06	0.13	0.29	0.32	0.72	0.11	0.10	0.04	0.04	0.03	
20	0.14	2.08	0.18	0.11	0.38	0.23	0.54	0.11	0.10	0.04	0.04	0.03	
21	0.11	1.60	0.14	0.14	0.26	0.20	0.44	0.11	0.10	0.04	0.04	0.03	
22	0.10	0.90	0.17	0.32	0.17	0.20	0.54	0.11	0.10	0.04	0.04	0.03	
23	0.08	0.54	0.54	0.32	0.15	0.26	0.41	0.11	0.10	0.04	0.04	0.02	
24	0.06	0.35	2.00	1.08	0.23	0.32	0.38	0.11	0.10	0.04	0.04	0.02	
25	0.05	0.23	1.01	1.08	0.38	0.29	0.29	0.11	0.10	0.04	0.03	0.02	
26	0.15	0.15	0.72	0.68	0.32	0.23	0.23	0.10	0.08	0.04	0.03	0.02	
27	0.29	0.15	1.14	1.01	0.32	0.23	0.23	0.10	0.06	0.04	0.03	0.02	
28	0.18	0.15	1.92	1.68	0.38	0.18	0.44	0.10	0.06	0.04	0.03	0.02	
29	0.14	0.11	3.35	1.01	0.50	0.18	0.29	0.10	0.06	0.04		0.02	
30	0.11	0.10	5.25	0.63	0.47	0.23	0.26	0.10	0.06	0.04		0.02	
31		0.08		0.41	1.60		0.20		0.06	0.03		0.02	
TOTAL	2.90	10.55	17.77	17.58	8.93	18.29	21.18	4.25	4.11	1.52	1.64	0.93	109.65 CMSDAY
MEAN	0.10	0.34	0.59	0.57	0.29	0.61	0.68	0.14	0.13	0.05	0.06	0.03	0.30 CMS
MAX	0.72	2.08	5.25	2.16	1.60	2.32	4.87	0.29	0.54	0.06	0.29	0.04	5.25 CMS
MIN	0.00	0.06	0.04	0.11	0.08	0.18	0.17	0.10	0.06	0.03	0.03	0.02	0.00 CMS
RUNOFF	0.251	0.912	1.535	1.519	0.772	1.580	1.830	0.367	0.355	0.131	0.142	0.080	9.474 MCM

MOMENTARY PEAK 10.60 CMS, AT 1.70 M (A.D), AT 21.00 HOURS, ON JUN 23, 1980

RUNOFF YIELD 8.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 286.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WEST COAST-GULF BASIN

KHLONG BANG SAPHAN YAI AT BAN WANG YAO, PRACHUAP KHIRI KHAN (GT.7)

LOCATION — LAT. 11°-14'-02" N., LONG. 99°-26'-35" E., ON LEFT BANK NEAR THE BRIDGE OF PHET KASEM HIGHWAY AT BAN WANG YAO, TAMBON RON THONG, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 346 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT

LOCATION — ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +8.084 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

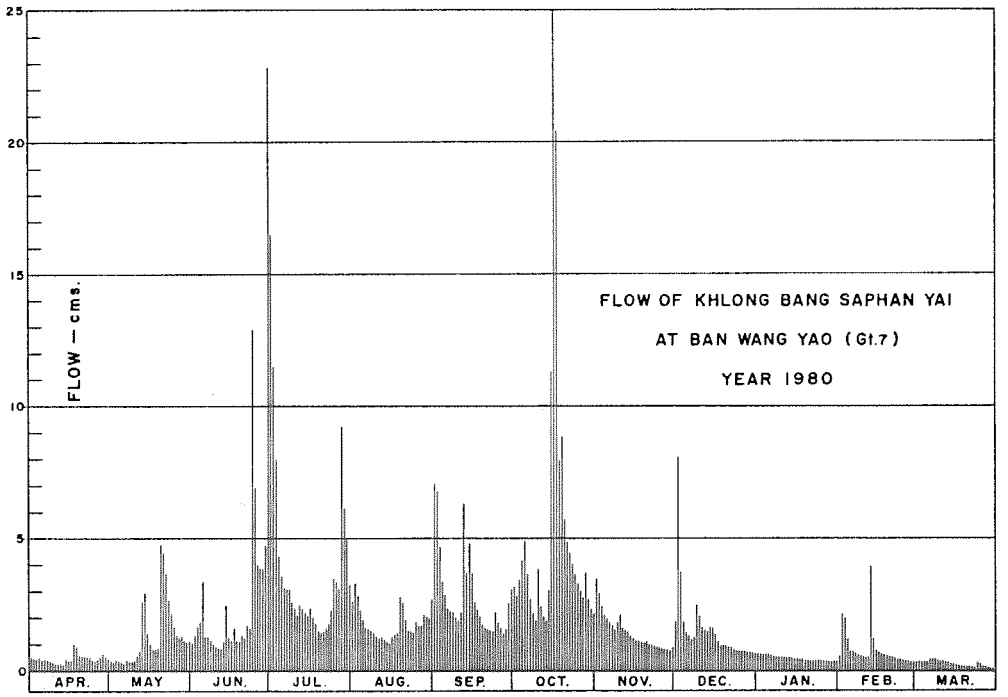
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.30	0.45	1.75	0.71	1.21	0.78	0.88	0.50	0.37	0.34	0.29	
2	0.32	0.29	0.51	1.37	0.79	1.18	0.73	0.72	1.30	0.36	0.63	0.29	
3	0.31	0.30	0.56	1.06	0.70	0.95	0.82	0.67	0.73	0.36	0.61	0.29	
4	0.32	0.29	0.59	0.88	0.64	0.80	0.93	0.62	0.59	0.36	0.46	0.29	
5	0.31	0.28	0.81	0.82	0.60	0.72	0.99	0.60	0.53	0.36	0.39	0.29	
6	0.31	0.27	0.50	0.77	0.56	0.67	0.79	0.59	0.50	0.35	0.38	0.31	
7	0.30	0.30	0.50	0.76	0.55	0.65	0.70	0.57	0.48	0.34	0.37	0.32	
8	0.29	0.29	0.46	0.76	0.54	0.65	0.64	0.54	0.51	0.34	0.36	0.32	
9	0.28	0.29	0.44	0.68	0.52	0.61	0.61	0.61	0.68	0.33	0.35	0.30	
10	0.27	0.30	0.42	0.67	0.50	0.60	0.87	0.63	0.62	0.33	0.34	0.29	
11	0.27	0.34	0.41	0.62	0.49	0.65	0.69	0.56	0.55	0.33	0.34	0.29	
12	0.27	0.41	0.41	0.68	0.49	1.13	0.62	0.54	0.54	0.33	0.33	0.29	
13	0.27	0.70	0.48	0.67	0.48	0.86	0.59	0.52	0.54	0.33	0.88	0.28	
14	0.30	0.74	0.72	0.64	0.46	0.98	0.81	0.50	0.51	0.33	0.47	0.28	
15	0.29	0.51	0.49	0.61	0.44	0.82	1.91	0.49	0.54	0.32	0.40	0.27	
16	0.30	0.42	0.47	0.66	0.50	0.71	2.71	0.47	0.50	0.32	0.38	0.26	
17	0.44	0.39	0.55	0.60	0.53	0.67	1.71	0.46	0.46	0.31	0.36	0.25	
18	0.42	0.40	0.47	0.57	0.53	0.63	1.29	0.46	0.44	0.31	0.36	0.24	
19	0.35	0.42	0.46	0.54	0.72	0.58	1.37	0.45	0.44	0.30	0.34	0.24	
20	0.35	0.97	0.50	0.53	0.69	0.56	1.06	0.45	0.43	0.30	0.34	0.24	
21	0.34	0.94	0.48	0.53	0.60	0.55	0.98	0.44	0.42	0.30	0.33	0.23	
22	0.33	0.78	0.58	0.57	0.54	0.54	0.93	0.44	0.41	0.30	0.33	0.23	
23	0.32	0.69	0.55	0.60	0.52	0.53	0.88	0.43	0.40	0.30	0.32	0.23	
24	0.30	0.62	1.70	0.69	0.52	0.64	0.83	0.43	0.39	0.30	0.31	0.29	
25	0.29	0.56	1.00	0.82	0.60	0.59	0.78	0.43	0.39	0.30	0.30	0.25	
26	0.31	0.50	0.88	0.81	0.57	0.55	0.76	0.42	0.39	0.30	0.30	0.24	
27	0.31	0.49	0.88	0.77	0.57	0.52	0.72	0.41	0.39	0.29	0.30	0.23	
28	0.37	0.50	0.88	1.40	0.64	0.53	0.84	0.41	0.38	0.29	0.29	0.23	
29	0.34	0.47	1.03	1.09	0.62	0.72	0.70	0.40	0.38	0.29		0.22	
30	0.31	0.44	2.43	0.92	0.62	0.76	0.66	0.40	0.37	0.29		0.22	
31		0.47		0.78	0.73		0.64		0.37	0.29		0.21	
MEAN	0.32	0.47	0.69	0.79	0.58	0.72	0.95	0.52	0.51	0.32	0.39	0.26	
MAX	0.44	0.97	2.43	1.75	0.79	1.21	2.71	0.88	1.30	0.37	0.88	0.32	2.71
MIN	0.27	0.27	0.41	0.53	0.44	0.52	0.59	0.40	0.37	0.29	0.29	0.21	0.21

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.83 M (A.D), AT 12.00 HOURS, ON OCT 16, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.15 M (A.D)

LEFT BANK ELEVATION — 8.08 M (A.D)

RIGHT BANK ELEVATION — 8.16 M (A.D), DRAINAGE AREA — 346 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.40	1.05	13.55	2.67	7.11	3.16	3.94	1.30	0.68	0.56	0.36	
2	0.48	0.36	1.36	8.87	3.23	6.80	2.81	2.74	8.10	0.64	2.11	0.36	
3	0.44	0.40	1.66	5.60	2.60	4.55	3.46	2.39	2.81	0.64	1.97	0.36	
4	0.48	0.36	1.84	3.94	2.18	3.30	4.37	2.04	1.84	0.64	1.10	0.36	
5	0.44	0.32	3.38	3.46	1.90	2.74	4.91	1.90	1.48	0.64	0.76	0.36	
6	0.44	0.28	1.30	3.09	1.66	2.39	3.23	1.84	1.30	0.60	0.72	0.44	
7	0.40	0.40	1.30	3.02	1.60	2.25	2.60	1.72	1.20	0.56	0.68	0.48	
8	0.36	0.36	1.10	3.02	1.54	2.25	2.18	1.54	1.36	0.56	0.64	0.48	
9	0.32	0.36	1.00	2.46	1.42	1.97	1.97	1.97	2.46	0.52	0.60	0.40	
10	0.28	0.40	0.90	2.39	1.30	1.90	3.86	2.11	2.04	0.52	0.56	0.36	
11	0.28	0.56	0.85	2.04	1.25	2.25	2.53	1.66	1.60	0.52	0.56	0.36	
12	0.28	0.85	0.85	2.46	1.25	6.30	2.04	1.54	1.54	0.52	0.52	0.36	
13	0.28	2.60	1.20	2.39	1.20	3.78	1.84	1.42	1.54	0.52	3.94	0.32	
14	0.40	2.88	2.74	2.18	1.10	4.82	3.38	1.30	1.36	0.52	1.15	0.32	
15	0.36	1.36	1.25	1.97	1.00	3.46	15.63	1.25	1.54	0.48	0.80	0.28	
16	0.40	0.90	1.15	2.32	1.30	2.67	26.95	1.15	1.30	0.48	0.72	0.24	
17	1.00	0.76	1.60	1.90	1.48	2.39	13.03	1.10	1.10	0.44	0.64	0.20	
18	0.90	0.80	1.15	1.72	1.48	2.11	7.99	1.10	1.00	0.44	0.64	0.16	
19	0.60	0.90	1.10	1.54	2.74	1.78	8.87	1.05	1.00	0.40	0.56	0.16	
20	0.60	4.73	1.30	1.48	2.53	1.66	5.60	1.05	0.95	0.40	0.56	0.16	
21	0.56	4.46	1.20	1.48	1.90	1.60	4.82	1.00	0.90	0.40	0.52	0.12	
22	0.52	3.16	1.78	1.72	1.54	1.54	4.37	1.00	0.85	0.40	0.52	0.12	
23	0.48	2.53	1.60	1.90	1.42	1.48	3.94	0.95	0.80	0.40	0.48	0.12	
24	0.40	2.04	12.90	2.53	1.42	2.18	3.54	0.95	0.76	0.40	0.44	0.36	
25	0.36	1.66	5.00	3.46	1.90	1.84	3.16	0.95	0.76	0.40	0.40	0.20	
26	0.44	1.30	3.94	3.38	1.72	1.60	3.02	0.90	0.76	0.40	0.40	0.16	
27	0.44	1.25	3.94	3.09	1.72	1.42	2.74	0.85	0.76	0.36	0.40	0.12	
28	0.68	1.30	3.94	9.20	2.18	1.48	3.62	0.85	0.72	0.36	0.36	0.12	
29	0.56	1.15	5.30	5.90	2.04	2.74	2.60	0.80	0.72	0.36		0.08	
30	0.44	1.00	22.89	4.28	2.04	3.02	2.32	0.80	0.68	0.36		0.08	
31		1.15		3.16	2.81		2.18		0.68	0.36		0.04	
TOTAL	14.14	40.98	90.57	109.50	56.12	85.38	156.72	43.86	45.21	14.92	23.31	8.04	688.75 CMSDAY
MEAN	0.47	1.32	3.02	3.53	1.81	2.85	5.06	1.46	1.46	0.48	0.83	0.26	1.89 CMS
MAX	1.00	4.73	22.89	13.55	3.23	7.11	26.95	3.94	8.10	0.68	3.94	0.48	26.95 CMS
MIN	0.28	0.28	0.85	1.48	1.00	1.42	1.84	0.80	0.68	0.36	0.36	0.04	0.04 CMS
RUNOFF	1.222	3.541	7.825	9.461	4.849	7.377	13.541	3.789	3.906	1.289	2.014	0.695	59.508 MCM

MOMENTARY PEAK 28.75 CMS, AT 2.83 M (A.D), AT 12.00 HOURS, ON OCT 16, 1980

RUNOFF YIELD 5.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 83.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WEST COAST-GULF BASIN

KHLONG THAP SAKAE AT BAN KLANG, PRACHUAP KHIRI KHAN (GT.9)

LOCATION — LAT. 11°-29'-39" N., LONG. 99°-36'-21" E., ON RIGHT BANK AT BAN KLANG, TAMBON THAP SAKAE, AMPHOE THAP SAKAE, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 120 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF BRIDGE.

ELEVATION — +5.374 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR. 20-MAY 21 AND MAY 27-JUNE 12, 1980

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

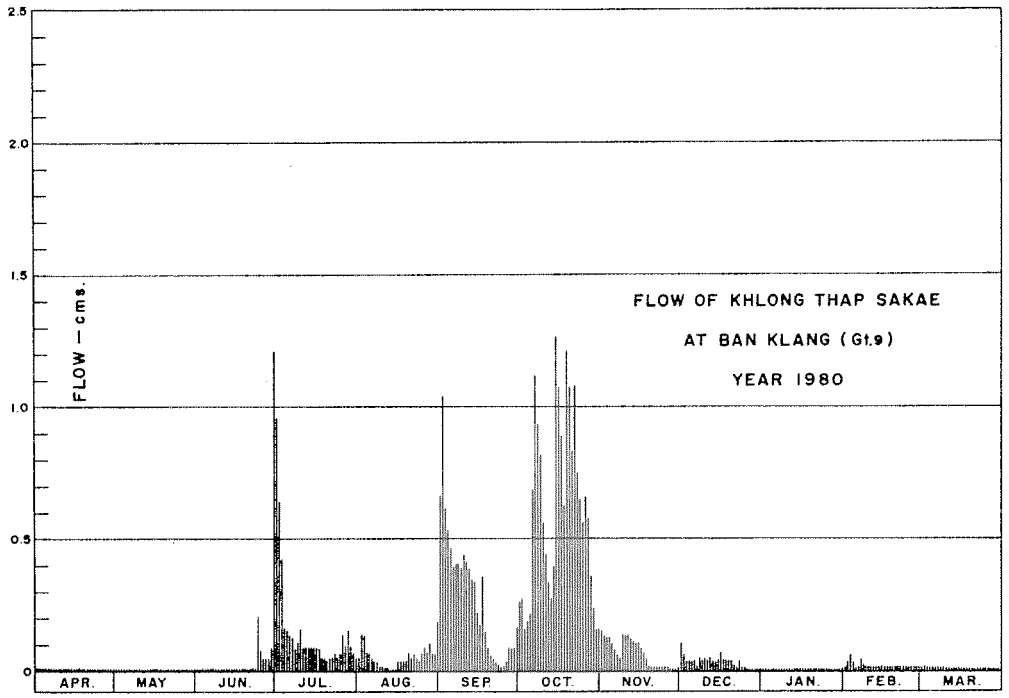
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.08	-0.10	-0.10	0.35	0.03	0.26	0.13	0.09	0.06	-0.01	0.01	0.01	
2	-0.08	-0.10	-0.10	0.28	0.08	0.37	0.14	0.08	0.04	-0.01	0.03	0.01	
3	-0.08	-0.10	-0.10	0.20	0.08	0.27	0.09	0.07	0.02	-0.01	0.04	0.01	
4	-0.08	-0.10	-0.10	0.09	0.04	0.23	0.10	0.07	0.02	-0.01	0.02	0.01	
5	-0.08	-0.10	-0.10	0.09	0.04	0.21	0.11	0.06	0.02	-0.01	0.01	0.01	
6	-0.08	-0.10	-0.10	0.08	0.03	0.18	0.23	0.05	0.02	-0.01	0.01	0.01	
7	-0.08	-0.10	-0.10	0.07	0.02	0.19	0.39	0.04	0.01	-0.01	0.01	0.01	
8	-0.08	-0.10	-0.10	0.05	0.02	0.19	0.34	0.03	0.03	-0.01	0.03	0.01	
9	-0.08	-0.10	-0.10	0.06	0.01	0.18	0.30	0.08	0.02	-0.01	0.01	0.01	
10	-0.08	-0.10	-0.10	0.09	0.01	0.20	0.27	0.08	0.03	-0.01	0.01	0.01	
11	-0.05	-0.10	-0.10	0.05	0.01	0.19	0.20	0.08	0.02	-0.01	0.01	0.01	
12	-0.08	-0.10	-0.10	0.05	0.01	0.18	0.16	0.07	0.03	-0.01	0.01	0.01	
13	-0.09	-0.10	-0.03	0.05	-0.01	0.16	0.14	0.06	0.02	-0.01	0.01	0.01	
14	-0.09	-0.10	-0.03	0.05	-0.01	0.16	0.18	0.06	0.02	-0.01	0.01	0.01	
15	-0.09	-0.10	-0.03	0.05	-0.02	0.12	0.42	0.06	0.03	-0.01	0.01	0.01	
16	-0.09	-0.10	-0.03	0.05	0.02	0.10	0.38	0.05	0.04	-0.01	0.01	-0.01	
17	-0.09	-0.10	-0.03	0.05	0.02	0.17	0.33	0.04	0.02	-0.01	0.01	-0.01	
18	-0.09	-0.10	-0.03	0.03	0.02	0.07	0.26	0.02	0.02	-0.02	0.01	-0.01	
19	-0.10	-0.10	-0.03	0.03	0.02	0.05	0.41	0.01	0.02	-0.02	0.01	-0.01	
20	-0.10	-0.10	-0.03	0.02	0.04	0.04	0.33	0.01	0.02	-0.02	0.01	-0.01	
21	-0.10	-0.10	-0.04	0.03	0.03	0.03	0.32	0.01	0.01	-0.02	0.01	-0.01	
22	-0.10	-0.05	-0.04	0.03	0.04	0.02	0.38	0.01	0.01	-0.02	0.01	-0.01	
23	-0.10	-0.05	-0.04	0.04	0.03	0.01	0.30	0.01	0.02	-0.02	0.01	-0.01	
24	-0.10	-0.05	0.11	0.03	0.02	0.01	0.27	0.01	0.01	-0.02	0.01	-0.02	
25	-0.10	-0.06	0.04	0.04	0.04	0.01	0.24	0.01	0.01	-0.02	0.01	-0.02	
26	-0.10	-0.08	0.03	0.08	0.05	0.02	0.27	0.01	-0.01	-0.03	0.01	-0.02	
27	-0.10	-0.10	0.03	0.05	0.04	0.05	0.24	-0.01	-0.01	-0.03	0.01	-0.02	
28	-0.10	-0.10	0.03	0.09	0.06	0.05	0.16	-0.01	-0.01	-0.04	0.01	-0.02	
29	-0.10	-0.10	0.05	0.05	0.04	0.05	0.12	-0.01	-0.01	-0.04		-0.02	
30	-0.10	-0.10	0.41	0.04	0.04	0.07	0.09	-0.01	-0.01	-0.05		-0.02	
31		-0.10		0.03	0.08		0.09		-0.01	-0.05		-0.02	
MEAN	-0.09	-0.09	-0.03	0.07	0.03	0.13	0.24	0.04	0.02	-0.02	0.01	-0.00	
MAX	-0.05	-0.05	0.41	0.35	0.08	0.37	0.42	0.09	0.06	-0.01	0.04	0.01	0.42
MIN	-0.10	-0.10	-0.10	0.02	-0.02	0.01	0.09	-0.01	-0.01	-0.05	0.01	-0.02	-0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT — 0.57 M (A.D), AT 12.00 HOURS, ON JUN 30, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION — 5.13 M (A.D)

RIGHT BANK ELEVATION — 5.13 M (A.D), DRAINAGE AREA 120 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.96	0.05	0.63	0.26	0.16	0.11	0.00	0.02	0.02	
2	0.00	0.00	0.00	0.70	0.14	1.04	0.28	0.14	0.07	0.00	0.05	0.02	
3	0.00	0.00	0.00	0.44	0.14	0.66	0.16	0.13	0.04	0.00	0.07	0.02	
4	0.00	0.00	0.00	0.16	0.07	0.54	0.18	0.13	0.04	0.00	0.04	0.02	
5	0.00	0.00	0.00	0.16	0.07	0.47	0.21	0.11	0.04	0.00	0.02	0.02	
6	0.00	0.00	0.00	0.14	0.05	0.39	0.54	0.09	0.04	0.00	0.02	0.02	
7	0.00	0.00	0.00	0.13	0.04	0.41	1.12	0.07	0.02	0.00	0.02	0.02	
8	0.00	0.00	0.00	0.09	0.04	0.41	0.92	0.05	0.05	0.00	0.05	0.02	
9	0.00	0.00	0.00	0.11	0.02	0.39	0.76	0.14	0.04	0.00	0.02	0.02	
10	0.00	0.00	0.00	0.16	0.02	0.44	0.66	0.14	0.05	0.00	0.02	0.02	
11	0.00	0.00	0.00	0.09	0.02	0.41	0.44	0.14	0.04	0.00	0.02	0.02	
12	0.00	0.00	0.00	0.09	0.02	0.39	0.34	0.13	0.05	0.00	0.02	0.02	
13	0.00	0.00	0.00	0.09	0.00	0.34	0.28	0.11	0.04	0.00	0.02	0.02	
14	0.00	0.00	0.00	0.09	0.00	0.34	0.39	0.11	0.04	0.00	0.02	0.02	
15	0.00	0.00	0.00	0.09	0.00	0.23	1.26	0.11	0.05	0.00	0.02	0.02	
16	0.00	0.00	0.00	0.09	0.04	0.18	1.08	0.09	0.07	0.00	0.02	0.00	
17	0.00	0.00	0.00	0.09	0.04	0.36	0.88	0.07	0.04	0.00	0.02	0.00	
18	0.00	0.00	0.00	0.05	0.04	0.13	0.63	0.04	0.04	0.00	0.02	0.00	
19	0.00	0.00	0.00	0.05	0.04	0.09	1.21	0.02	0.04	0.00	0.02	0.00	
20	0.00	0.00	0.00	0.04	0.07	0.07	0.88	0.02	0.04	0.00	0.02	0.00	
21	0.00	0.00	0.00	0.05	0.05	0.05	0.84	0.02	0.02	0.00	0.02	0.00	
22	0.00	0.00	0.00	0.05	0.07	0.04	1.08	0.02	0.02	0.00	0.02	0.00	
23	0.00	0.00	0.00	0.07	0.05	0.02	0.76	0.02	0.04	0.00	0.02	0.00	
24	0.00	0.00	0.21	0.05	0.04	0.02	0.66	0.02	0.02	0.00	0.02	0.00	
25	0.00	0.00	0.07	0.07	0.07	0.02	0.57	0.02	0.02	0.00	0.02	0.00	
26	0.00	0.00	0.05	0.14	0.09	0.04	0.66	0.02	0.00	0.00	0.02	0.00	
27	0.00	0.00	0.05	0.09	0.07	0.09	0.57	0.00	0.00	0.00	0.02	0.00	
28	0.00	0.00	0.05	0.16	0.11	0.09	0.34	0.00	0.00	0.00	0.02	0.00	
29	0.00	0.00	0.09	0.09	0.07	0.09	0.23	0.00	0.00	0.00		0.00	
30	0.00	0.00	1.21	0.07	0.07	0.13	0.16	0.00	0.00	0.00		0.00	
31		0.00		0.05	0.14		0.16		0.00	0.00		0.00	
TOTAL	0.00	0.00	1.73	4.71	1.74	8.51	18.51	2.12	1.07	0.00	0.69	0.30	39.38 CMSDAY
MEAN	0.00	0.00	0.06	0.15	0.06	0.28	0.60	0.07	0.03	0.00	0.02	0.01	0.11 CMS
MAX	0.00	0.00	1.21	0.96	0.14	1.04	1.26	0.16	0.11	0.00	0.07	0.02	1.26 CMS
MIN	0.00	0.00	0.00	0.04	0.00	0.02	0.16	0.00	0.00	0.00	0.02	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.149	0.407	0.150	0.735	1.599	0.183	0.092	0.000	0.060	0.026	3.402 MCM

MOMENTARY PEAK 2.01 CMS, AT 0.57 M (A.D), AT 12.00 HOURS, ON JUN 30, 1980

RUNOFF YIELD 0.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 16.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WEST COAST-GULF BASIN

KHLONG KRUT AT BAN NONG YA PLONG, PRACHUAP KHIRI KHAN (GT.10)

LOCATION — LAT. 11°-24'-08" N., LONG. 99°-31'-20" E., ON LEFT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR KILOMETER MARKER 379, BAN NONG YA PLONG, TAMBON CHAI KASEM, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 112 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT

LOCATION — ON LEFT BANK AT THE ABUTMENT OF BRIDGE.

ELEVATION — +5.522 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

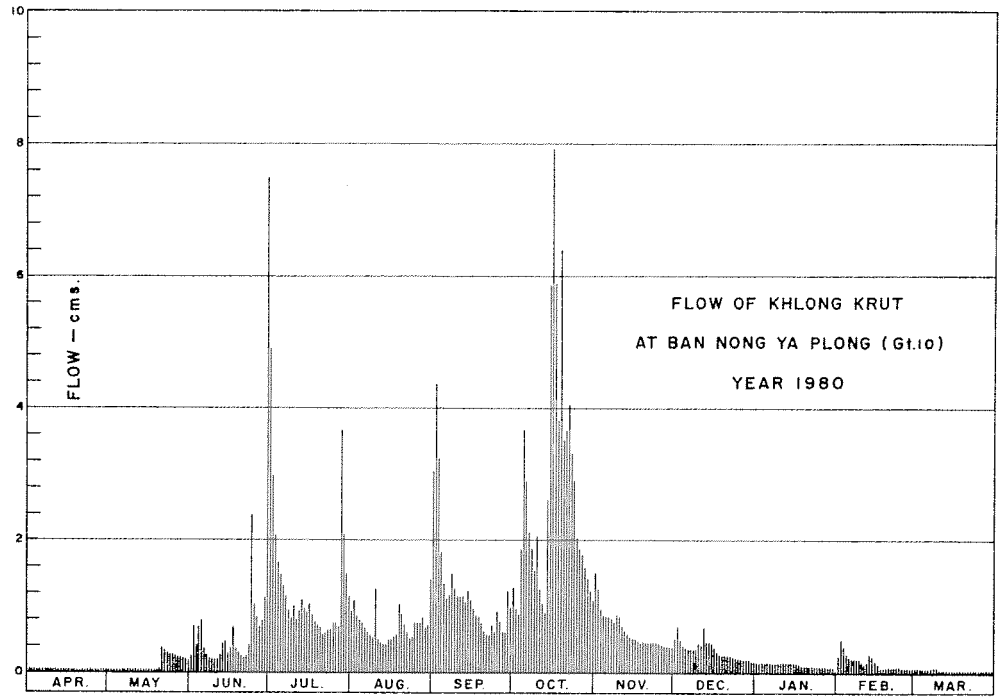
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-MAY13, MAY16-19, 1980 AND MAR. 17-31, 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.16	0.94	0.40	0.78	0.48	0.52	0.29	0.13	0.18	0.05	
2	0.00	0.00	0.34	0.76	0.44	0.94	0.41	0.44	0.34	0.13	0.28	0.05	
3	0.00	0.00	0.24	0.60	0.38	0.69	0.39	0.41	0.26	0.13	0.24	0.05	
4	0.00	0.00	0.34	0.55	0.37	0.58	0.44	0.39	0.24	0.13	0.19	0.05	
5	0.00	0.00	0.37	0.52	0.36	0.49	0.85	0.38	0.23	0.13	0.16	0.05	
6	0.00	0.00	0.24	0.48	0.33	0.44	0.68	0.38	0.23	0.13	0.15	0.05	
7	0.00	0.00	0.19	0.43	0.32	0.45	0.63	0.37	0.23	0.13	0.15	0.06	
8	0.00	0.00	0.17	0.41	0.31	0.52	0.58	0.36	0.23	0.13	0.15	0.06	
9	0.00	0.00	0.15	0.38	0.30	0.46	0.53	0.39	0.23	0.13	0.15	0.05	
10	0.00	0.00	0.15	0.42	0.47	0.45	0.62	0.38	0.26	0.12	0.12	0.04	
11	0.00	0.00	0.15	0.37	0.26	0.45	0.47	0.34	0.25	0.12	0.10	0.03	
12	0.00	0.00	0.18	0.40	0.26	0.45	0.43	0.33	0.34	0.12	0.12	0.02	
13	0.00	0.00	0.26	0.44	0.25	0.43	0.40	0.31	0.26	0.11	0.19	0.01	
14	0.00	0.05	0.27	0.41	0.25	0.46	0.70	0.30	0.27	0.11	0.16	0.01	
15	0.00	0.00	0.20	0.40	0.28	0.43	1.10	0.30	0.26	0.11	0.13	0.01	
16	0.00	0.00	0.21	0.42	0.28	0.41	1.32	0.29	0.23	0.10	0.08	0.00	
17	0.00	0.00	0.34	0.39	0.30	0.39	1.10	0.28	0.20	0.10	0.07	0.00	
18	0.00	0.00	0.23	0.36	0.31	0.38	0.87	0.27	0.19	0.09	0.07	0.00	
19	0.00	0.00	0.20	0.35	0.42	0.36	1.17	0.27	0.19	0.09	0.07	0.00	
20	0.00	0.07	0.18	0.34	0.39	0.32	0.83	0.27	0.18	0.08	0.07	0.00	
21	0.00	0.23	0.16	0.31	0.35	0.31	0.85	0.27	0.18	0.08	0.07	0.00	
22	0.00	0.21	0.17	0.32	0.31	0.31	0.90	0.27	0.18	0.08	0.06	0.00	
23	0.00	0.20	0.23	0.33	0.29	0.35	0.75	0.27	0.17	0.08	0.06	0.00	
24	0.00	0.19	0.67	0.33	0.29	0.32	0.74	0.27	0.17	0.08	0.06	0.00	
25	0.00	0.19	0.43	0.36	0.36	0.40	0.61	0.26	0.16	0.08	0.06	0.00	
26	0.00	0.19	0.38	0.36	0.36	0.36	0.58	0.25	0.15	0.08	0.05	0.00	
27	0.00	0.17	0.34	0.34	0.36	0.32	0.57	0.25	0.15	0.08	0.05	0.00	
28	0.00	0.16	0.35	0.85	0.38	0.30	0.53	0.24	0.15	0.08	0.05	0.00	
29	0.00	0.15	0.45	0.60	0.34	0.47	0.50	0.24	0.15	0.08		0.00	
30	0.00	0.15	1.28	0.52	0.36	0.39	0.46	0.24	0.14	0.08		0.00	
31		0.14		0.45	0.52		0.43		0.13	0.00		0.00	
MEAN	0.00	0.07	0.30	0.46	0.34	0.45	0.67	0.32	0.21	0.10	0.12	0.02	
MAX	0.00	0.23	1.28	0.94	0.52	0.94	1.32	0.52	0.34	0.13	0.28	0.06	1.32
MIN	0.00	0.00	0.15	0.31	0.25	0.30	0.39	0.24	0.13	0.00	0.05	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.42 M (A.D), AT 6.00 HOURS, ON OCT 19, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 5.25 M (A.D)
RIGHT BANK ELEVATION 5.22 M (A.D), DRAINAGE AREA 112 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.23	4.37	0.92	3.16	1.30	1.51	0.52	0.17	0.26	0.06	
2	0.00	0.00	0.70	3.02	1.11	4.37	0.97	1.11	0.70	0.17	0.50	0.06	
3	0.00	0.00	0.40	1.95	0.85	2.53	0.88	0.97	0.45	0.17	0.40	0.06	
4	0.00	0.00	0.70	1.67	0.81	1.84	1.11	0.88	0.40	0.17	0.28	0.06	
5	0.00	0.00	0.81	1.51	0.77	1.35	3.67	0.85	0.37	0.17	0.23	0.06	
6	0.00	0.00	0.40	1.30	0.66	1.11	2.47	0.85	0.37	0.17	0.21	0.06	
7	0.00	0.00	0.28	1.06	0.62	1.16	2.14	0.81	0.37	0.17	0.21	0.07	
8	0.00	0.00	0.25	0.97	0.59	1.51	1.84	0.77	0.37	0.17	0.21	0.07	
9	0.00	0.00	0.21	0.85	0.55	1.21	1.56	0.88	0.37	0.17	0.21	0.06	
10	0.00	0.00	0.21	1.02	1.26	1.16	2.08	0.85	0.45	0.16	0.16	0.05	
11	0.00	0.00	0.21	0.81	0.45	1.16	1.26	0.70	0.42	0.16	0.12	0.04	
12	0.00	0.00	0.26	0.92	0.45	1.16	1.06	0.66	0.70	0.16	0.16	0.02	
13	0.00	0.00	0.45	1.11	0.42	1.06	0.92	0.59	0.45	0.14	0.28	0.01	
14	0.00	0.06	0.47	0.97	0.42	1.21	2.60	0.55	0.47	0.14	0.23	0.01	
15	0.00	0.00	0.30	0.92	0.50	1.06	5.70	0.55	0.45	0.14	0.17	0.01	
16	0.00	0.00	0.32	1.02	0.50	0.97	7.91	0.52	0.37	0.12	0.10	0.00	
17	0.00	0.00	0.70	0.88	0.55	0.88	5.70	0.50	0.30	0.12	0.08	0.00	
18	0.00	0.00	0.37	0.77	0.59	0.85	3.82	0.47	0.28	0.11	0.08	0.00	
19	0.00	0.00	0.30	0.73	1.02	0.77	6.40	0.47	0.28	0.11	0.08	0.00	
20	0.00	0.08	0.26	0.70	0.88	0.62	3.52	0.47	0.26	0.10	0.08	0.00	
21	0.00	0.37	0.23	0.59	0.73	0.59	3.67	0.47	0.26	0.10	0.08	0.00	
22	0.00	0.32	0.25	0.62	0.59	0.59	4.05	0.47	0.26	0.10	0.07	0.00	
23	0.00	0.30	0.37	0.66	0.52	0.73	2.95	0.47	0.25	0.10	0.07	0.00	
24	0.00	0.28	2.40	0.66	0.52	0.62	2.88	0.47	0.25	0.10	0.07	0.00	
25	0.00	0.28	1.06	0.77	0.77	0.92	2.01	0.45	0.23	0.10	0.07	0.00	
26	0.00	0.28	0.85	0.77	0.77	0.77	1.84	0.42	0.21	0.10	0.06	0.00	
27	0.00	0.25	0.70	0.70	0.77	0.62	1.78	0.42	0.21	0.10	0.06	0.00	
28	0.00	0.23	0.73	3.67	0.85	0.55	1.56	0.40	0.21	0.10	0.06	0.00	
29	0.00	0.21	1.16	1.95	0.70	1.26	1.40	0.40	0.21	0.10		0.00	
30	0.00	0.21	7.50	1.51	0.77	0.88	1.21	0.40	0.19	0.10		0.00	
31		0.19		1.16	1.51		1.06		0.17	0.00		0.00	
TOTAL	0.00	3.06	23.08	39.61	22.42	36.67	81.32	19.33	10.80	3.99	4.59	0.70	245.57 CMSDAY
MEAN	0.00	0.10	0.77	1.28	0.72	1.22	2.62	0.64	0.35	0.13	0.16	0.02	0.67 CMS
MAX	0.00	0.37	7.50	4.37	1.51	4.37	7.91	1.51	0.70	0.17	0.50	0.07	7.91 CMS
MIN	0.00	0.00	0.21	0.59	0.42	0.55	0.88	0.40	0.17	0.00	0.06	0.00	0.00 CMS
RUNOFF	0.000	0.264	1.994	3.422	1.937	3.168	7.026	1.670	0.933	0.345	0.397	0.060	21.217 MCM

MOMENTARY PEAK 8.97 CMS, AT 1.42 M (A.D), AT 6.00 HOURS, ON OCT 19, 1980

RUNOFF YIELD 6.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 80.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

WEST COAST-GULF BASIN

HUAI YANG AT BAN CHANG LAEK, PRACHUAP KHIRI KHAN (GT.11)

LOCATION — LAT. 11°-03'-44" N., LONG. 99°-22'-31" E., ON RIGHT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR KILOMETER MARKER 423, BAN CHANG LAEK, TAMBON PAK PHRAEK, AMPHOE BANG SAPHAN NOI, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 58 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT

LOCATION — ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +9.576 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

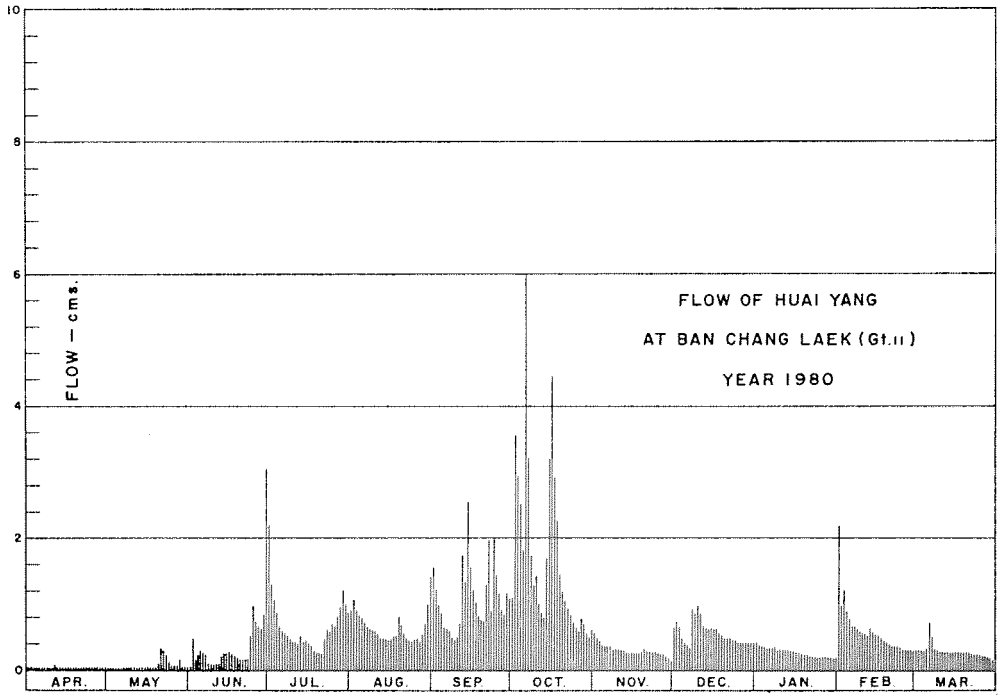
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.18	0.28	0.75	0.55	0.69	0.62	0.47	0.50	0.43	0.79	0.40	
2	0.18	0.18	0.45	0.62	0.59	0.61	0.99	0.44	0.51	0.42	0.56	0.40	
3	0.19	0.17	0.34	0.57	0.55	0.56	0.90	0.44	0.48	0.42	0.62	0.39	
4	0.19	0.17	0.38	0.53	0.54	0.54	0.83	0.42	0.44	0.41	0.54	0.39	
5	0.19	0.17	0.39	0.49	0.53	0.50	0.73	0.42	0.43	0.41	0.52	0.39	
6	0.18	0.17	0.38	0.48	0.51	0.49	1.27	0.42	0.42	0.41	0.50	0.51	
7	0.18	0.14	0.37	0.47	0.50	0.48	0.84	0.41	0.41	0.41	0.50	0.44	
8	0.17	0.10	0.30	0.46	0.49	0.45	0.70	0.40	0.56	0.41	0.49	0.40	
9	0.16	0.10	0.30	0.45	0.48	0.44	0.63	0.40	0.53	0.40	0.48	0.40	
10	0.17	0.10	0.30	0.44	0.48	0.46	0.66	0.40	0.57	0.40	0.47	0.39	
11	0.29	0.10	0.30	0.44	0.47	0.52	0.57	0.40	0.53	0.40	0.47	0.39	
12	0.23	0.09	0.30	0.43	0.45	0.72	0.54	0.39	0.50	0.40	0.46	0.39	
13	0.23	0.12	0.36	0.46	0.45	0.64	0.53	0.39	0.49	0.40	0.49	0.39	
14	0.22	0.13	0.37	0.43	0.45	0.85	0.75	0.38	0.49	0.39	0.47	0.39	
15	0.21	0.13	0.38	0.44	0.44	0.67	0.85	0.38	0.49	0.39	0.46	0.39	
16	0.19	0.13	0.38	0.43	0.45	0.61	1.10	0.38	0.49	0.38	0.46	0.39	
17	0.19	0.14	0.36	0.42	0.46	0.58	0.88	0.38	0.49	0.38	0.45	0.39	
18	0.19	0.16	0.35	0.38	0.46	0.53	0.76	0.37	0.47	0.37	0.44	0.39	
19	0.19	0.21	0.34	0.38	0.53	0.52	0.65	0.38	0.46	0.37	0.43	0.38	
20	0.19	0.31	0.33	0.38	0.49	0.52	0.61	0.40	0.45	0.37	0.42	0.38	
21	0.19	0.40	0.33	0.37	0.46	0.65	0.58	0.39	0.45	0.36	0.42	0.38	
22	0.19	0.39	0.34	0.45	0.45	0.76	0.57	0.38	0.45	0.35	0.42	0.37	
23	0.18	0.37	0.35	0.48	0.44	0.56	0.53	0.38	0.44	0.35	0.41	0.37	
24	0.19	0.32	0.49	0.47	0.44	0.76	0.52	0.38	0.44	0.35	0.41	0.37	
25	0.23	0.29	0.57	0.51	0.45	0.65	0.50	0.38	0.43	0.35	0.40	0.37	
26	0.19	0.29	0.51	0.50	0.45	0.58	0.49	0.37	0.43	0.35	0.40	0.36	
27	0.19	0.29	0.50	0.54	0.44	0.55	0.52	0.37	0.43	0.35	0.40	0.36	
28	0.19	0.33	0.49	0.57	0.47	0.54	0.50	0.35	0.43	0.35	0.40	0.35	
29	0.19	0.26	0.54	0.62	0.51	0.61	0.47	0.34	0.43	0.35		0.34	
30	0.18	0.27	0.92	0.58	0.59	0.59	0.45	0.33	0.43	0.35		0.33	
31		0.26		0.54	0.66		0.48		0.43	0.34		0.33	
MEAN	0.19	0.21	0.40	0.49	0.49	0.59	0.68	0.39	0.47	0.38	0.47	0.38	
MAX	0.29	0.40	0.92	0.75	0.66	0.85	1.27	0.47	0.57	0.43	0.79	0.51	1.27
MIN	0.16	0.09	0.28	0.37	0.44	0.44	0.45	0.33	0.41	0.34	0.40	0.33	0.09

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.49 M (A.D), AT 6.00 HOURS, ON OCT 6, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)

LEFT BANK ELEVATION 9.23 M (A.D)

RIGHT BANK ELEVATION 9.26 M (A.D), DRAINAGE AREA 58 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.06	1.94	0.90	1.57	1.22	0.57	0.68	0.43	2.19	0.32	
2	0.00	0.00	0.50	1.22	1.08	1.17	3.57	0.46	0.72	0.39	0.94	0.32	
3	0.00	0.00	0.19	0.99	0.90	0.94	2.90	0.46	0.61	0.39	1.22	0.30	
4	0.00	0.00	0.28	0.81	0.86	0.86	2.44	0.39	0.46	0.36	0.86	0.30	
5	0.00	0.00	0.30	0.64	0.81	0.68	1.81	0.39	0.43	0.36	0.77	0.30	
6	0.00	0.00	0.28	0.61	0.72	0.64	5.98	0.39	0.39	0.36	0.68	0.72	
7	0.00	0.00	0.25	0.57	0.68	0.61	2.51	0.36	0.36	0.36	0.68	0.46	
8	0.00	0.00	0.10	0.54	0.64	0.50	1.62	0.32	0.94	0.36	0.64	0.32	
9	0.00	0.00	0.10	0.50	0.61	0.46	1.27	0.32	0.81	0.32	0.61	0.32	
10	0.00	0.00	0.10	0.46	0.61	0.54	1.42	0.32	0.99	0.32	0.57	0.30	
11	0.08	0.00	0.10	0.46	0.57	0.77	0.99	0.32	0.81	0.32	0.57	0.30	
12	0.00	0.00	0.10	0.43	0.50	1.75	0.86	0.30	0.68	0.32	0.54	0.30	
13	0.00	0.00	0.23	0.54	0.50	1.32	0.81	0.30	0.64	0.32	0.64	0.30	
14	0.00	0.00	0.25	0.43	0.50	2.57	1.94	0.28	0.64	0.30	0.57	0.30	
15	0.00	0.00	0.28	0.46	0.46	1.47	2.57	0.28	0.64	0.30	0.54	0.30	
16	0.00	0.00	0.28	0.43	0.50	1.17	4.45	0.28	0.64	0.28	0.54	0.30	
17	0.00	0.00	0.23	0.39	0.54	1.03	2.77	0.28	0.64	0.28	0.50	0.30	
18	0.00	0.00	0.21	0.28	0.54	0.81	2.00	0.25	0.57	0.25	0.46	0.30	
19	0.00	0.00	0.19	0.28	0.81	0.77	1.37	0.28	0.54	0.25	0.43	0.28	
20	0.00	0.12	0.17	0.28	0.64	0.77	1.17	0.32	0.50	0.25	0.39	0.28	
21	0.00	0.32	0.17	0.25	0.54	1.37	1.03	0.30	0.50	0.23	0.39	0.28	
22	0.00	0.30	0.19	0.50	0.50	2.00	0.99	0.28	0.50	0.21	0.39	0.25	
23	0.00	0.25	0.21	0.61	0.46	0.94	0.81	0.28	0.46	0.21	0.36	0.25	
24	0.00	0.14	0.64	0.57	0.46	2.00	0.77	0.28	0.46	0.21	0.36	0.25	
25	0.00	0.08	0.99	0.72	0.50	1.37	0.68	0.28	0.43	0.21	0.32	0.25	
26	0.00	0.08	0.72	0.68	0.50	1.03	0.64	0.25	0.43	0.21	0.32	0.23	
27	0.00	0.08	0.68	0.86	0.46	0.90	0.77	0.25	0.43	0.21	0.32	0.23	
28	0.00	0.17	0.64	0.99	0.57	0.86	0.68	0.21	0.43	0.21	0.32	0.21	
29	0.00	0.02	0.86	1.22	0.72	1.17	0.57	0.19	0.43	0.21		0.19	
30	0.00	0.04	3.05	1.03	1.08	1.08	0.50	0.17	0.43	0.21		0.17	
31		0.02		0.86	1.42		0.61		0.43	0.19		0.17	
TOTAL	0.08	1.62	12.35	20.55	20.58	33.12	51.72	9.36	17.62	8.83	17.12	9.10	202.05 CMSDAY
MEAN	0.00	0.05	0.41	0.66	0.66	1.10	1.67	0.31	0.57	0.28	0.61	0.29	0.55 CMS
MAX	0.08	0.32	3.05	1.94	1.42	2.57	5.98	0.57	0.99	0.43	2.19	0.72	5.98 CMS
MIN	0.00	0.00	0.06	0.25	0.46	0.46	0.50	0.17	0.36	0.19	0.32	0.17	0.00 CMS
RUNOFF	0.007	0.140	1.067	1.776	1.778	2.862	4.469	0.809	1.522	0.763	1.479	0.786	17.457 MCM

MOMENTARY PEAK 8.12 CMS, AT 1.49 M (A.D), AT 6.00 HOURS, ON OCT 6, 1980

RUNOFF YIELD 9.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 139.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG RAB RO AT BAN HAT TAENG, CHUMPHON (X.46A)

LOCATION — LAT. 10°-37'-18" N., LONG. 99°-03'-39" E., ON LEFT BANK ABOUT 10 KILOMETERS UPSTREAM FROM X.46 STATION AT BAN THA KHAM, AMPHOE THA SAE, CHUMPHON.

DRAINAGE AREA — 617 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ON LEFT BANK NEAR THE GAGE SITE.

ELEVATION — +11.752 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1977 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1977 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 73 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING FEB.1-MAR.31,1981.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

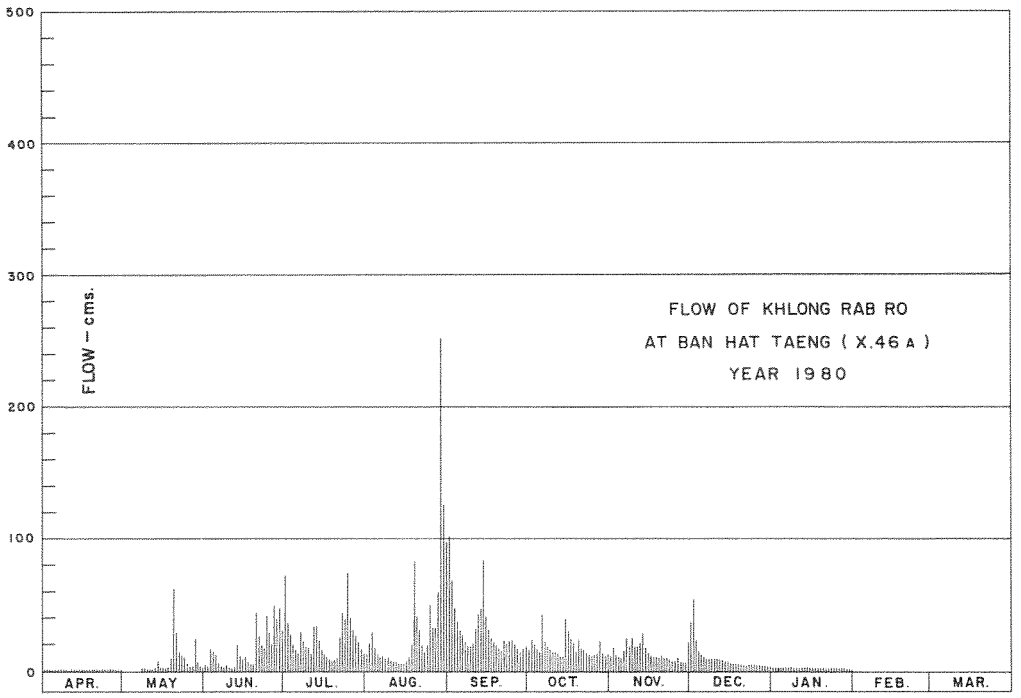
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	0.80	1.18	2.45	1.47	2.85	1.58	1.43	2.02	1.12	*******	*******	
2	0.82	0.79	1.10	2.03	1.67	2.46	1.72	1.58	2.22	1.12	*******	*******	
3	0.82	0.78	1.58	1.83	1.85	2.16	1.68	1.43	1.66	1.12	*******	*******	
4	0.80	0.76	1.47	1.66	1.61	2.00	1.57	1.39	1.51	1.11	*******	*******	
5	0.80	0.75	1.47	1.54	1.49	1.87	1.52	1.37	1.44	1.10	*******	*******	
6	0.79	0.80	1.20	1.48	1.42	1.78	2.08	1.56	1.39	1.10	*******	*******	
7	0.78	0.16	1.09	1.83	1.42	1.70	1.70	1.73	1.35	1.09	*******	*******	
8	0.79	0.03	1.04	1.74	1.38	1.64	1.60	1.61	1.34	1.00	*******	*******	
9	0.78	0.94	1.13	1.59	1.38	1.61	1.56	1.74	1.38	1.08	*******	*******	
10	0.77	0.90	1.03	1.59	1.30	1.69	1.52	1.59	1.36	1.08	*******	*******	
11	0.93	0.88	1.03	1.50	1.27	1.92	1.53	1.63	1.37	1.07	*******	*******	
12	0.86	0.85	1.08	1.93	1.26	2.05	1.47	1.67	1.32	1.08	*******	*******	
13	0.86	0.94	1.61	1.93	1.24	2.13	1.43	1.80	1.30	1.07	*******	*******	
14	0.85	1.25	1.41	1.73	1.20	2.60	1.43	1.58	1.29	1.06	*******	*******	
15	0.83	0.98	1.34	1.58	1.28	2.06	2.00	1.49	1.26	1.06	*******	*******	
16	0.88	0.89	1.38	1.47	1.27	1.88	1.83	1.43	1.24	1.05	*******	*******	
17	0.86	0.85	1.28	1.41	1.42	1.76	1.74	1.39	1.22	1.08	*******	*******	
18	0.84	0.89	1.18	1.34	1.67	1.68	1.63	1.40	1.21	1.04	*******	*******	
19	0.92	1.36	1.21	1.30	2.58	1.62	1.54	1.37	1.20	1.04	*******	*******	
20	0.87	2.32	2.08	1.31	2.01	1.57	1.72	1.43	1.19	1.04	*******	*******	
21	0.86	1.73	1.82	1.39	1.79	1.54	1.56	1.38	1.20	1.03	*******	*******	
22	0.84	1.48	1.64	1.85	1.62	1.70	1.54	1.36	1.18	1.03	*******	*******	
23	0.82	1.39	1.59	2.07	1.53	1.65	1.50	1.32	1.17	1.03	*******	*******	
24	0.81	1.33	2.04	1.99	1.65	1.73	1.47	1.31	1.16	1.03	*******	*******	
25	0.79	1.18	1.78	2.47	2.15	1.71	1.44	1.30	1.16	1.02	*******	*******	
26	0.78	1.09	1.65	2.04	1.90	1.61	1.46	1.38	1.15	1.02	*******	*******	
27	0.95	1.12	2.17	1.84	1.96	1.54	1.54	1.30	1.14	1.01	*******	*******	
28	0.87	1.45	2.01	1.79	2.22	1.53	1.68	1.27	1.14	1.01	*******	*******	
29	0.83	1.18	2.13	1.64	4.09	1.56	1.49	1.28	1.14	1.00		*******	
30	0.82	1.06	1.87	1.59	3.01	1.60	1.44	1.61	1.14	1.00		*******	
31		1.04		1.50	2.75		1.46		1.13	1.00		*******	
MEAN	0.84	1.03	1.49	1.72	1.77	1.84	1.59	1.47	1.32	1.05	*******	*******	
MAX	0.95	2.32	2.17	2.47	4.09	2.85	2.08	1.80	2.22	1.12	*******	*******	4.09
MIN	0.77	0.03	1.03	1.30	1.20	1.53	1.43	1.27	1.13	1.00	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.48 M (A.D.), AT 18.00 HOURS, ON SEP 29, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — 0.09 M (A.D.)

LEFT BANK ELEVATION — 5.91 M (A.D.)

RIGHT BANK ELEVATION — 5.00 M (A.D.), DRAINAGE AREA — 617 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.00	5.00	72.00	13.10	107.00	17.73	11.90	40.80	3.50	*******	*******	
2	0.20	0.00	3.00	41.45	21.93	72.80	24.27	17.73	54.00	3.50	*******	*******	
3	0.20	0.00	17.73	29.50	30.50	49.90	22.40	11.90	21.47	3.50	*******	*******	
4	0.00	0.00	13.10	21.47	19.13	39.50	17.27	10.70	14.47	3.25	*******	*******	
5	0.00	0.00	13.10	15.87	13.70	31.50	14.93	10.10	12.20	3.00	*******	*******	
6	0.00	0.00	5.50	13.40	11.60	27.07	44.70	16.80	10.70	3.00	*******	*******	
7	0.00	0.00	2.90	29.50	11.60	23.33	23.33	24.73	9.50	2.90	*******	*******	
8	0.00	0.00	2.40	25.20	10.40	20.53	18.67	19.13	9.20	2.00	*******	*******	
9	0.00	1.40	3.75	18.20	10.40	19.13	16.80	25.20	10.40	2.80	*******	*******	
10	0.00	1.00	2.30	18.20	8.00	22.87	14.93	18.20	9.50	2.50	*******	*******	
11	1.30	0.80	2.30	14.00	7.25	34.30	15.40	20.07	10.10	2.70	*******	*******	
12	0.60	0.50	2.80	34.95	7.00	42.75	13.10	21.93	8.60	2.80	*******	*******	
13	0.60	1.40	19.13	34.95	6.50	47.95	11.90	28.00	8.00	2.70	*******	*******	
14	0.50	6.75	11.30	24.73	5.50	84.00	11.90	17.73	7.75	2.60	*******	*******	
15	0.30	1.80	9.20	17.73	7.50	43.40	39.50	13.70	7.00	2.60	*******	*******	
16	0.80	0.90	10.40	13.10	7.25	32.00	29.50	11.90	6.50	2.50	*******	*******	
17	0.60	0.50	7.50	11.30	11.60	26.13	25.20	10.70	6.00	2.80	*******	*******	
18	0.40	0.90	5.00	9.20	21.93	22.40	20.07	11.00	5.75	2.40	*******	*******	
19	1.20	9.80	5.75	8.00	82.40	19.60	15.87	10.10	5.50	2.40	*******	*******	
20	0.70	61.60	44.70	8.30	40.15	17.27	24.27	11.90	5.25	2.40	*******	*******	
21	0.60	24.73	29.00	10.70	27.53	15.87	16.80	10.40	5.50	2.30	*******	*******	
22	0.40	13.40	20.53	30.50	19.60	23.33	15.87	9.80	5.00	2.30	*******	*******	
23	0.20	10.70	18.20	44.05	15.40	21.00	14.00	8.60	4.75	2.30	*******	*******	
24	0.10	8.90	42.10	38.85	21.00	24.73	13.10	8.30	4.50	2.30	*******	*******	
25	0.00	5.00	27.07	73.60	49.25	23.80	12.20	8.00	4.50	2.20	*******	*******	
26	0.00	2.90	21.00	42.10	33.00	19.13	12.80	10.40	4.25	2.20	*******	*******	
27	1.50	3.50	50.55	30.00	36.90	15.87	15.87	8.00	4.00	2.10	*******	*******	
28	0.70	12.50	40.15	27.53	54.00	15.40	22.40	7.25	4.00	2.10	*******	*******	
29	0.30	5.00	47.95	20.53	252.70	16.80	13.70	7.50	4.00	2.00		*******	
30	0.20	2.60	31.50	18.20	123.00	18.67	12.20	19.13	4.00	2.00		*******	
31		2.40		14.00	97.25		12.80		3.75	2.00		*******	
TOTAL	11.80	178.98	514.91	811.11	1077.07	978.03	583.48	420.80	311.24	79.95	*******	*******	******** CMSDAY
MEAN	0.39	5.77	17.16	26.16	34.74	32.60	18.82	14.03	10.04	2.58	*******	*******	******* CMS
MAX	1.50	61.60	50.55	73.60	252.70	107.00	44.70	28.00	54.00	3.50	*******	*******	252.70 CMS
MIN	0.00	0.00	2.30	8.00	5.50	15.40	11.90	7.25	3.75	2.00	*******	*******	******* CMS
RUNOFF	1.020	15.464	44.488	70.080	93.059	84.502	50.413	36.357	26.891	6.908	*******	*******	******** MCM

MOMENTARY PEAK 461.80 CMS, AT 5.48 M (A.D), AT 18.00 HOURS, ON SEP 29, 1980

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 748.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG CHUMPHON AT BAN SIAP YUAN, CHUMPHON (X.53)

LOCATION — LAT. 10°-29'-57" N., LONG. 99°-04'-15" E., ON LEFT BANK UPSTREAM SIDE OF THE BRIDGE NEAR PHAYOM THAWAI SCHOOL, AMPHOE MUANG, CHUMPHON.

DRAINAGE AREA — 223 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ON LEFT BANK NEAR THE GAGE SITE.

ELEVATION — +9.502 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973, 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973, 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

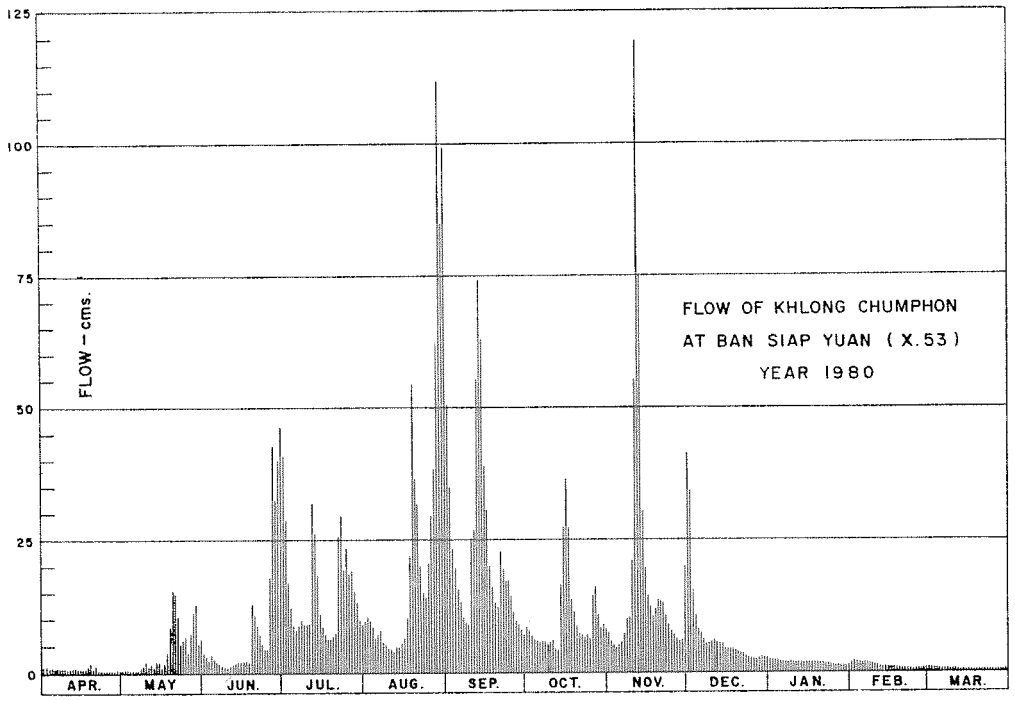
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.68	0.61	0.88	2.16	1.16	2.33	1.13	1.11	2.17	0.81	0.79	0.68	
2	0.70	0.59	0.83	1.85	1.20	1.94	1.09	1.01	1.95	0.80	0.84	0.67	
3	0.67	0.59	0.81	1.48	1.19	1.68	1.04	0.96	1.47	0.80	0.79	0.67	
4	0.67	0.59	0.83	1.29	1.09	1.56	1.01	0.93	1.27	0.78	0.76	0.67	
5	0.67	0.59	0.80	1.15	1.03	1.44	1.00	0.94	1.14	0.77	0.75	0.66	
6	0.67	0.64	0.77	1.10	1.07	1.34	0.98	0.99	1.08	0.77	0.74	0.66	
7	0.67	0.65	0.72	1.13	1.08	1.24	1.00	1.01	1.02	0.76	0.73	0.66	
8	0.66	0.68	0.72	1.18	0.98	1.18	1.00	1.16	1.01	0.76	0.73	0.66	
9	0.66	0.73	0.71	1.15	0.95	1.15	0.96	1.20	0.99	0.76	0.73	0.66	
10	0.66	0.78	0.70	1.15	0.93	1.71	1.00	1.52	0.99	0.76	0.73	0.66	
11	0.65	0.71	0.72	1.16	0.93	1.74	0.99	2.57	1.01	0.76	0.72	0.66	
12	0.68	0.74	0.74	1.91	0.90	2.34	0.93	4.06	0.97	0.78	0.72	0.66	
13	0.68	0.71	0.75	1.82	0.94	3.02	0.90	2.96	0.98	0.78	0.73	0.65	
14	0.67	0.78	0.76	1.49	0.90	2.73	1.45	1.88	0.96	0.78	0.71	0.64	
15	0.65	0.73	0.76	1.28	0.89	2.11	1.79	1.55	0.93	0.78	0.70	0.63	
16	0.66	0.68	0.78	1.16	1.01	1.78	2.04	1.38	0.91	0.77	0.70	0.63	
17	0.78	0.75	0.79	1.07	1.17	1.57	1.78	1.28	0.90	0.77	0.69	0.63	
18	0.78	0.88	0.78	1.03	1.51	1.43	1.34	1.22	0.90	0.76	0.69	0.63	
19	0.70	0.80	1.14	1.00	2.52	1.32	1.20	1.24	0.88	0.75	0.69	0.63	
20	0.67	1.40	1.30	1.00	2.05	1.27	1.11	1.33	0.88	0.75	0.69	0.63	
21	0.65	1.38	1.16	1.08	1.91	1.64	1.07	1.33	0.88	0.75	0.69	0.63	
22	0.64	1.25	1.10	1.74	1.55	1.59	1.05	1.32	0.87	0.75	0.69	0.63	
23	0.63	0.96	0.96	1.83	1.37	1.46	1.03	1.21	0.86	0.75	0.69	0.64	
24	0.63	1.01	0.91	1.53	1.35	1.46	1.05	1.13	0.86	0.74	0.69	0.65	
25	0.63	1.04	0.90	1.65	1.57	1.39	1.02	1.08	0.85	0.74	0.69	0.66	
26	0.63	0.89	1.21	1.46	1.80	1.24	1.36	1.04	0.84	0.74	0.69	0.65	
27	0.65	1.07	2.21	1.53	2.09	1.19	1.42	1.01	0.83	0.74	0.69	0.64	
28	0.65	1.23	1.94	1.44	2.46	1.13	1.25	0.99	0.82	0.74	0.69	0.65	
29	0.62	1.30	2.14	1.31	3.86	1.10	1.11	1.02	0.83	0.73		0.65	
30	0.62	0.97	2.31	1.20	3.28	1.07	1.15	1.37	0.82	0.73		0.65	
31		1.01		1.14	3.61		1.11		0.81	0.72		0.65	
MEAN	0.67	0.86	1.04	1.37	1.56	1.60	1.17	1.39	1.02	0.76	0.72	0.65	
MAX	0.78	1.40	2.31	2.16	3.86	3.02	2.04	4.06	2.17	0.81	0.84	0.68	4.06
MIN	0.62	0.59	0.70	1.00	0.89	1.07	0.90	0.93	0.81	0.72	0.69	0.63	0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.48 M (A.D.), AT 12.00 HOURS, ON AUG 31, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED 0.25 M (A.D.)
LEFT BANK ELEVATION 9.53 M (A.D.)
RIGHT BANK ELEVATION 9.70 M (A.D.), DRAINAGE AREA 223 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.53	0.00	3.64	40.76	9.32	46.94	8.66	8.22	41.12	2.38	2.06	0.53	
2	0.80	0.00	2.74	29.70	10.20	32.84	7.80	6.20	33.20	2.20	2.92	0.40	
3	0.40	0.00	2.38	17.64	9.98	23.92	6.80	5.20	17.36	2.20	2.06	0.40	
4	0.40	0.00	2.74	12.36	7.80	20.00	6.20	4.60	11.88	1.92	1.64	0.40	
5	0.40	0.00	2.20	9.10	6.60	16.52	6.00	4.80	8.88	1.78	1.50	0.27	
6	0.40	0.00	1.78	8.00	7.40	13.72	5.60	5.80	7.60	1.78	1.36	0.27	
7	0.40	0.13	1.22	8.66	7.60	11.16	6.00	6.20	6.40	1.64	1.22	0.27	
8	0.27	0.53	1.08	9.76	5.60	9.76	6.00	9.32	6.20	1.64	1.22	0.27	
9	0.27	1.22	0.94	9.10	5.00	9.10	5.20	10.20	5.80	1.64	1.22	0.27	
10	0.27	1.92	0.80	9.10	4.60	24.94	6.00	18.80	5.80	1.64	1.22	0.27	
11	0.13	0.94	1.08	9.32	4.60	25.96	5.80	56.06	6.20	1.64	1.08	0.27	
12	0.53	1.36	1.36	31.76	4.00	47.32	4.60	119.03	5.40	1.92	1.08	0.27	
13	0.53	0.94	1.50	28.68	4.80	74.04	4.00	71.60	5.60	1.92	1.22	0.13	
14	0.40	1.92	1.64	17.92	4.00	62.40	16.80	30.72	5.20	1.92	0.94	0.00	
15	0.13	1.22	1.64	12.12	3.82	38.96	27.66	19.70	4.60	1.92	0.80	0.00	
16	0.27	0.53	1.92	9.32	6.20	27.32	36.44	14.84	4.20	1.78	0.80	0.00	
17	1.92	1.50	2.06	7.40	9.54	20.30	27.32	12.12	4.00	1.78	0.67	0.00	
18	1.92	3.64	1.92	6.60	18.50	16.24	13.72	10.68	4.00	1.64	0.67	0.00	
19	0.80	2.20	8.88	6.00	54.16	13.16	10.20	11.16	3.64	1.50	0.67	0.00	
20	0.40	15.40	12.60	6.00	36.80	11.88	8.22	13.44	3.64	1.50	0.67	0.00	
21	0.13	14.84	9.32	7.60	31.76	22.56	7.40	13.44	3.64	1.50	0.67	0.00	
22	0.00	11.40	8.00	25.96	19.70	20.90	7.00	13.16	3.46	1.50	0.67	0.00	
23	0.00	5.20	5.20	29.02	14.56	17.08	6.60	10.44	3.28	1.50	0.67	0.00	
24	0.00	6.20	4.20	19.10	14.00	17.08	7.00	8.66	3.28	1.36	0.67	0.13	
25	0.00	6.80	4.00	22.90	20.30	15.12	6.40	7.60	3.10	1.36	0.67	0.27	
26	0.00	3.82	10.44	17.08	28.00	11.16	14.28	6.80	2.92	1.36	0.67	0.13	
27	0.13	7.40	42.56	19.10	38.24	9.98	15.96	6.20	2.74	1.36	0.67	0.00	
28	0.13	10.92	32.84	16.52	51.88	8.66	11.40	5.80	2.56	1.36	0.67	0.13	
29	0.00	12.60	40.04	12.88	110.16	8.00	8.22	6.40	2.74	1.22		0.13	
30	0.00	5.40	46.18	10.20	84.96	7.40	9.10	14.56	2.56	1.22		0.13	
31		6.20		8.88	99.08		8.22		2.38	1.08		0.13	
TOTAL	11.56	124.23	256.90	478.54	733.16	684.42	320.60	531.75	223.38	51.16	30.38	5.07	3451.14 CMSDAY
MEAN	0.39	4.01	8.56	15.44	23.65	22.81	10.34	17.72	7.21	1.65	1.08	0.16	9.46 CMS
MAX	1.92	15.40	46.18	40.76	110.16	74.04	36.44	119.03	41.12	2.38	2.92	0.53	119.03 CMS
MIN	0.00	0.00	0.80	6.00	3.82	7.40	4.00	4.60	2.38	1.08	0.67	0.00	0.00 CMS
RUNOFF	0.999	10.733	22.196	41.346	63.345	59.134	27.700	45.943	19.300	4.420	2.625	0.438	298.179 MCM

MOMENTARY PEAK 138.08 CMS, AT 4.48 M (A.D), AT 12.00 HOURS, ON AUG 31, 1980
RUNOFF YIELD 42.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 619.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG THA SAE AT THA SAE, CHUMPHON (X.64)

LOCATION — LAT. 10°-39'-49" N., LONG. 99°-10'-17" E., ON LEFT BANK NEAR THE LAND COOPERATION OFFICE, TAMBON BAN THA KHAM, AMPHOE THA SAE, CHUMPHON.

DRAINAGE AREA — 957 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK NEAR THE GAGE SITE.

ELEVATION — +11.196 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974-1975

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974-1975

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 354 DISCHARGE MEASUREMENTS MADE DURING 1974-1975.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

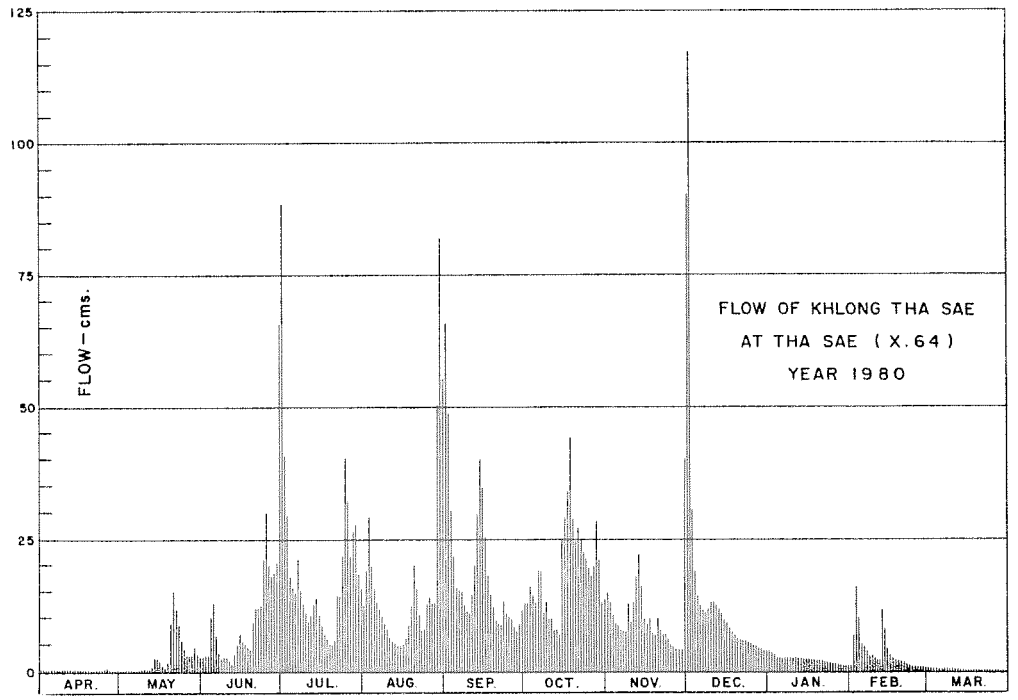
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.39	0.37	0.61	3.31	1.05	2.75	1.07	1.14	2.41	0.66	0.47	0.44	
2	0.42	0.35	0.60	2.08	1.21	2.44	1.06	1.10	3.96	0.65	0.74	0.44	
3	0.39	0.34	0.58	1.55	1.65	1.77	1.20	0.96	1.80	0.61	1.18	0.43	
4	0.37	0.34	0.95	1.26	1.35	1.45	1.12	0.91	1.32	0.60	0.96	0.43	
5	0.35	0.33	1.09	1.16	1.18	1.19	1.06	0.90	1.17	0.60	0.73	0.43	
6	0.35	0.33	0.79	1.14	1.06	1.17	1.31	0.88	1.08	0.58	0.71	0.42	
7	0.34	0.33	0.63	1.39	1.02	1.15	1.30	0.87	1.02	0.58	0.65	0.42	
8	0.34	0.33	0.57	1.17	0.95	1.05	1.08	0.88	0.98	0.58	0.62	0.42	
9	0.34	0.44	0.57	1.10	0.90	0.99	0.97	1.07	1.03	0.57	0.64	0.47	
10	0.34	0.44	0.56	1.00	0.83	0.98	0.94	0.92	1.08	0.57	0.57	0.43	
11	0.35	0.41	0.52	0.92	0.78	0.98	0.96	1.05	1.09	0.57	0.56	0.42	
12	0.35	0.43	0.48	0.98	0.75	1.41	0.87	1.19	1.07	0.57	0.50	0.42	
13	0.39	0.46	0.55	1.04	0.74	1.67	0.85	1.44	0.99	0.57	0.99	0.42	
14	0.36	0.56	0.72	1.10	0.70	2.02	0.80	1.10	0.99	0.55	0.79	0.41	
15	0.35	0.57	0.81	0.97	0.69	1.94	1.53	0.96	0.97	0.55	0.65	0.41	
16	0.35	0.51	0.72	0.89	0.73	1.44	1.64	0.90	0.90	0.55	0.60	0.40	
17	0.35	0.45	0.72	0.83	0.80	1.27	1.87	0.94	0.87	0.54	0.57	0.40	
18	0.35	0.42	0.67	0.77	0.88	1.10	1.38	0.84	0.80	0.54	0.54	0.39	
19	0.35	0.52	0.64	0.72	1.01	1.05	1.17	0.80	0.80	0.52	0.53	0.39	
20	0.35	0.87	0.92	0.71	1.34	0.97	1.15	0.95	0.78	0.52	0.52	0.38	
21	0.40	1.14	1.02	0.75	1.17	0.93	1.25	0.88	0.77	0.52	0.50	0.38	
22	0.38	1.02	1.02	1.12	0.97	0.90	1.17	0.81	0.75	0.50	0.48	0.37	
23	0.38	0.86	1.04	1.13	0.85	1.08	1.08	0.84	0.73	0.50	0.48	0.37	
24	0.35	0.73	1.48	1.40	0.84	0.98	0.98	0.75	0.72	0.50	0.48	0.37	
25	0.35	0.64	1.69	2.02	1.06	0.97	0.91	0.73	0.72	0.50	0.46	0.40	
26	0.43	0.59	1.35	1.70	1.11	0.96	0.88	0.71	0.70	0.49	0.46	0.39	
27	0.37	0.60	1.25	1.40	1.07	0.89	0.94	0.67	0.69	0.49	0.45	0.34	
28	0.37	0.60	1.29	1.58	1.03	0.88	1.63	0.67	0.68	0.48	0.44	0.36	
29	0.39	0.68	1.36	1.60	2.22	0.90	1.31	0.66	0.66	0.48		0.36	
30	0.39	0.61	2.75	1.31	3.15	1.04	1.07	1.12	0.66	0.47		0.35	
31		0.57		1.20	2.32		1.13		0.66	0.47		0.35	
MEAN	0.37	0.54	0.93	1.27	1.14	1.28	1.15	0.92	1.06	0.54	0.62	0.40	
MAX	0.43	1.14	2.75	3.31	3.15	2.75	1.87	1.44	3.96	0.66	1.18	0.47	3.96
MIN	0.34	0.33	0.48	0.71	0.69	0.88	0.80	0.66	0.66	0.47	0.44	0.34	0.33

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.75 M (A.D), AT 6.00 HOURS, ON DEC 2, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.19 M (A.D)

LEFT BANK ELEVATION — 6.05 M (A.D)

RIGHT BANK ELEVATION — 6.51 M (A.D), DRAINAGE AREA — 957 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	3.20	88.40	12.75	66.00	13.25	15.00	53.35	4.20	1.05	0.60	
2	0.30	0.00	3.00	41.90	16.75	54.40	13.00	14.00	117.20	4.00	5.80	0.60	
3	0.00	0.00	2.70	26.00	29.00	32.60	16.50	10.50	33.50	3.20	16.00	0.45	
4	0.00	0.00	10.25	18.00	20.25	23.00	14.50	9.25	19.50	3.00	10.50	0.45	
5	0.00	0.00	13.75	15.50	16.00	16.25	13.00	9.00	15.75	3.00	5.60	0.45	
6	0.00	0.00	6.80	15.00	13.00	15.75	19.25	8.60	13.50	2.70	5.20	0.30	
7	0.00	0.00	3.60	21.25	12.00	15.25	19.00	8.40	12.00	2.70	4.00	0.30	
8	0.00	0.00	2.55	15.75	10.25	12.75	13.50	8.60	11.00	2.70	3.40	0.30	
9	0.00	0.60	2.55	14.00	9.00	11.25	10.75	13.25	12.25	2.55	3.80	1.05	
10	0.00	0.60	2.40	11.50	7.60	11.00	10.00	9.50	13.50	2.55	2.55	0.45	
11	0.00	0.15	1.80	9.50	6.60	11.00	10.50	12.75	13.75	2.55	2.40	0.30	
12	0.00	0.45	1.20	11.00	6.00	21.80	8.40	16.25	13.25	2.55	1.50	0.30	
13	0.00	0.90	2.25	12.50	5.80	29.60	8.00	22.70	11.25	2.55	11.25	0.30	
14	0.00	2.40	5.40	14.00	5.00	40.10	7.00	14.00	11.25	2.25	6.80	0.15	
15	0.00	2.55	7.20	10.75	4.80	37.70	25.40	10.50	10.75	2.25	4.00	0.15	
16	0.00	1.65	5.40	8.80	5.60	22.70	28.70	9.00	9.00	2.25	3.00	0.00	
17	0.00	0.75	5.40	7.60	7.00	18.25	35.60	10.00	8.40	2.10	2.55	0.00	
18	0.00	0.30	4.40	6.40	8.60	14.00	21.00	7.80	7.00	2.10	2.10	0.00	
19	0.00	1.80	3.80	5.40	11.75	12.75	15.75	7.00	7.00	1.80	1.95	0.00	
20	0.00	8.40	9.50	5.20	20.00	10.75	15.25	10.25	6.60	1.80	1.80	0.00	
21	0.00	15.00	12.00	6.00	15.75	9.75	17.75	8.60	6.40	1.80	1.50	0.00	
22	0.00	12.00	12.00	14.50	10.75	9.00	15.75	7.20	6.00	1.50	1.20	0.00	
23	0.00	8.20	12.50	14.75	9.00	13.50	13.50	7.80	5.60	1.50	1.20	0.00	
24	0.00	5.60	23.90	21.50	7.80	11.00	11.00	6.00	5.40	1.50	1.20	0.00	
25	0.00	3.80	30.20	40.10	13.00	10.75	9.25	5.60	5.40	1.50	0.90	0.00	
26	0.45	2.85	20.25	30.50	14.25	10.50	8.60	5.20	5.00	1.35	0.90	0.00	
27	0.90	3.00	17.75	21.50	13.25	8.80	10.00	4.40	4.80	1.35	0.75	0.00	
28	0.00	3.00	18.75	26.90	12.25	8.60	28.40	4.40	4.60	1.20	0.60	0.00	
29	0.00	4.60	20.50	27.50	46.70	9.00	19.25	4.20	4.20	1.20		0.00	
30	0.00	3.20	66.00	19.25	82.00	12.50	13.25	14.50	4.20	1.05		0.00	
31		2.55		16.50	50.20		14.75		4.20	1.05		0.00	
TOTAL	0.75	84.35	331.00	597.45	501.70	580.30	479.85	294.25	455.60	67.80	103.50	6.15	3502.70 CMSDAY
MEAN	0.02	2.72	11.03	19.27	16.18	19.34	15.48	9.81	14.70	2.19	3.70	0.20	9.60 CMS
MAX	0.45	15.00	66.00	88.40	82.00	66.00	35.60	22.70	117.20	4.20	16.00	1.05	117.20 CMS
MIN	0.00	0.00	1.20	5.20	4.80	8.60	7.00	4.20	4.20	1.05	0.60	0.00	0.00 CMS
RUNOFF	0.065	7.288	28.598	51.620	43.347	50.138	41.459	25.423	39.364	5.858	8.942	0.531	302.633 MCM

MOMENTARY PEAK 155.50 CMS, AT 4.75 M (A.D), AT 6.00 HOURS, ON DEC 2, 1980
RUNOFF YIELD 10.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 162.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

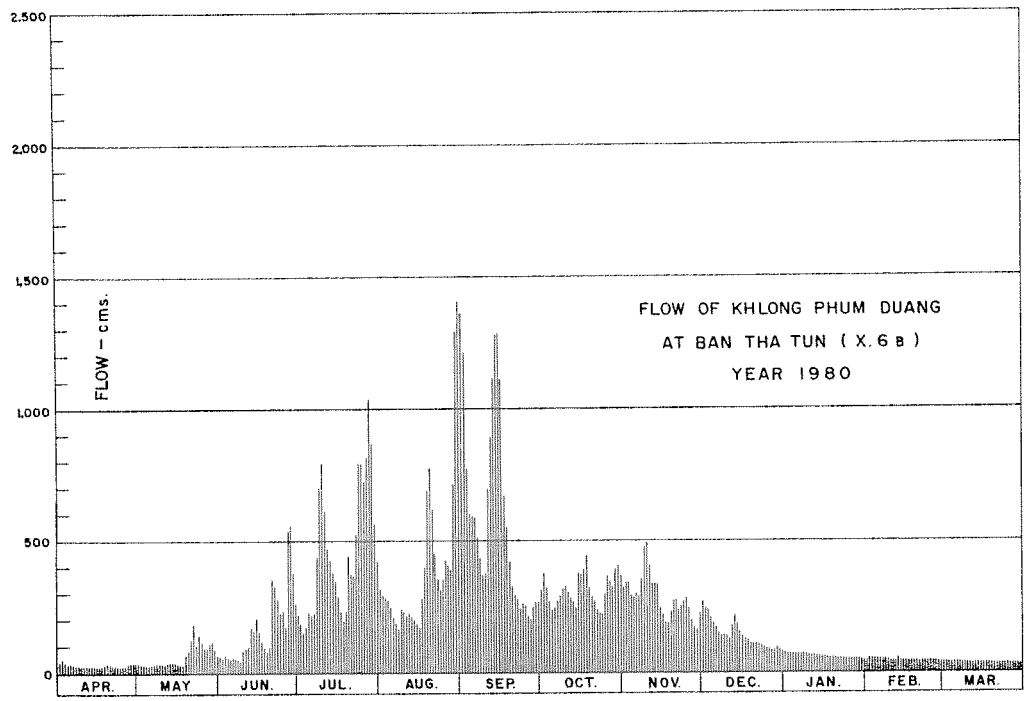
KHLONG PHUM DUANG AT BAN THA TUN, SURAT THANI (X.6B)

LOCATION	LAT. 9°-03'-57" N., LONG. 99°-02'-58" E., ON RIGHT BANK AT BAN THA TUN, TAMBON THAM SINGKHON, AMPHOE KHIRI RATTHANIKHOM.
DRAINAGE AREA	4,415 SQ KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.030 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+9.00 M(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1974
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 75 DISCHARGE MEASUREMENTS MADE IN 1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.22	1.10	1.55	2.75	3.54	7.80	3.45	3.45	3.09	1.66	1.36	1.25	
2	1.35	1.09	1.46	2.54	3.25	7.28	3.67	3.54	2.92	1.65	1.39	1.25	
3	1.25	1.07	1.56	2.31	3.18	5.59	3.43	3.55	2.93	1.64	1.41	1.25	
4	1.18	1.06	1.48	2.48	3.12	4.90	3.11	3.22	2.68	1.63	1.43	1.24	
5	1.15	1.05	1.41	2.82	2.94	4.82	2.85	3.23	2.57	1.62	1.44	1.24	
6	1.11	1.04	1.43	2.77	2.71	4.80	2.88	3.28	2.48	1.60	1.39	1.26	
7	1.09	1.06	1.45	2.87	2.55	4.37	3.03	3.21	2.36	1.60	1.38	1.25	
8	1.08	1.13	1.39	3.76	2.46	4.02	3.27	3.50	2.25	1.60	1.38	1.25	
9	1.07	1.21	1.32	5.16	2.94	3.68	3.38	4.21	2.23	1.59	1.36	1.23	
10	1.07	1.20	1.71	5.21	2.83	3.70	3.45	4.32	2.25	1.57	1.36	1.23	
11	1.07	1.14	1.83	4.85	2.75	5.28	3.35	3.80	2.18	1.57	1.34	1.23	
12	1.07	1.21	1.87	4.28	2.80	6.07	3.20	3.47	2.51	1.55	1.36	1.19	
13	1.06	1.29	2.46	4.08	2.69	6.96	3.10	3.49	2.70	1.52	1.39	1.19	
14	1.06	1.26	2.38	3.79	2.59	7.54	2.96	3.49	2.59	1.50	1.37	1.20	
15	1.05	1.24	2.63	3.56	2.50	7.55	3.73	3.02	2.36	1.49	1.35	1.19	
16	1.07	1.20	2.48	3.28	2.46	6.90	3.72	2.78	2.19	1.47	1.33	1.19	
17	1.08	1.15	2.08	2.91	3.05	5.24	3.81	2.61	2.12	1.48	1.33	1.19	
18	1.12	1.16	1.90	2.62	3.71	4.62	4.07	2.56	2.07	1.48	1.31	1.19	
19	1.18	1.55	1.74	2.84	5.23	3.93	3.43	2.77	1.99	1.47	1.30	1.19	
20	1.15	1.71	1.92	4.09	5.63	3.53	3.28	3.10	1.93	1.46	1.30	1.18	
21	1.12	2.08	3.60	3.69	5.20	3.24	3.09	3.11	1.95	1.45	1.29	1.17	
22	1.10	2.49	3.46	3.68	4.28	3.16	2.93	2.87	1.93	1.43	1.28	1.17	
23	1.08	1.93	3.19	4.72	3.60	2.93	2.80	3.02	1.93	1.43	1.28	1.17	
24	1.09	2.21	2.80	5.72	3.38	3.02	2.78	3.07	1.87	1.42	1.27	1.21	
25	1.08	2.09	2.85	5.73	3.63	3.00	3.32	3.17	1.81	1.41	1.28	1.21	
26	1.12	1.80	2.43	5.44	3.98	2.76	3.65	2.95	1.79	1.41	1.27	1.19	
27	1.19	1.84	4.56	5.89	3.95	2.62	3.52	2.63	1.75	1.40	1.26	1.17	
28	1.18	1.95	4.68	6.66	3.81	2.94	3.46	2.46	1.75	1.39	1.26	1.17	
29	1.16	2.01	3.74	6.02	5.34	3.08	3.82	2.37	1.83	1.39		1.17	
30	1.14	1.78	3.07	4.83	7.49	3.11	3.89	2.71	1.85	1.37		1.16	
31		1.55		4.05	7.96		3.69		1.73	1.36		1.16	
MEAN	1.12	1.47	2.35	4.05	3.73	4.61	3.36	3.17	2.21	1.50	1.34	1.20	
MAX	1.35	2.49	4.68	6.66	7.96	7.80	4.07	4.32	3.09	1.66	1.44	1.26	7.96
MIN	1.05	1.04	1.32	2.31	2.46	2.62	2.78	2.37	1.73	1.36	1.26	1.16	1.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.99 M (MSL), AT 1.00 HOURS, ON SEP 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.03 M (MSL), RIVER BED 0.12 M (MSL)
LEFT BANK ELEVATION 8.23 M (MSL)
RIGHT BANK ELEVATION 9.04 M (MSL), DRAINAGE AREA 4415 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	37.6	28.0	66.0	219.5	345.2	1365.0	329.0	329.0	270.5	77.0	48.8	40.0	
2	48.0	27.4	57.4	188.6	296.0	1210.2	368.6	345.2	245.0	76.0	51.2	40.0	
3	40.0	26.2	67.0	156.4	284.8	766.7	325.4	347.0	246.5	75.0	52.9	40.0	
4	34.4	25.6	59.2	180.2	275.2	611.0	273.6	291.2	209.0	74.0	54.7	39.2	
5	32.0	25.0	52.9	230.0	248.0	594.2	234.5	292.8	192.8	73.0	55.6	39.2	
6	28.8	24.4	54.7	222.5	213.5	590.0	239.0	300.8	180.2	71.0	51.2	40.8	
7	27.4	25.6	56.5	237.5	190.0	502.0	261.5	289.6	163.4	71.0	50.4	40.0	
8	26.8	30.4	51.2	384.8	177.4	432.8	299.2	338.0	148.0	71.0	50.4	40.0	
9	26.2	36.8	45.6	668.2	248.0	370.4	316.8	470.0	145.2	70.0	48.8	38.4	
10	26.2	36.0	82.1	679.3	231.5	374.0	329.0	492.0	148.0	68.0	48.8	38.4	
11	26.2	31.2	95.6	600.5	219.5	695.4	312.0	392.0	138.4	68.0	47.2	38.4	
12	26.2	36.8	100.4	484.0	227.0	883.2	288.0	332.6	184.4	66.0	48.8	35.2	
13	25.6	43.2	177.4	444.2	210.5	1119.8	272.0	336.2	212.0	63.0	51.2	35.2	
14	25.6	40.8	166.2	390.2	195.6	1287.0	251.0	336.2	195.6	61.0	49.6	36.0	
15	25.0	39.2	201.5	348.8	183.0	1290.0	379.4	260.0	163.4	60.1	48.0	35.2	
16	26.2	36.0	180.2	300.8	177.4	1103.0	377.6	224.0	139.7	58.3	46.4	35.2	
17	26.8	32.0	125.6	243.5	264.5	686.2	393.8	198.5	130.6	59.2	46.4	35.2	
18	29.6	32.8	104.0	200.0	375.8	552.2	442.3	191.4	124.4	59.2	44.8	35.2	
19	34.4	66.0	85.4	233.0	683.9	415.7	325.4	222.5	114.8	58.3	44.0	35.2	
20	32.0	82.1	106.4	446.1	775.9	343.4	300.8	272.0	107.6	57.4	44.0	34.4	
21	29.6	125.6	356.0	372.2	677.0	294.4	270.5	273.6	110.0	56.5	43.2	33.6	
22	28.0	181.6	330.8	370.4	484.0	281.6	246.5	237.5	107.6	54.7	42.4	33.6	
23	26.8	107.6	286.4	573.2	356.0	246.5	227.0	260.0	107.6	54.7	42.4	33.6	
24	27.4	142.4	227.0	796.8	316.8	260.0	224.0	267.5	100.4	53.8	41.6	36.8	
25	26.8	126.8	234.5	799.2	361.4	257.0	307.2	283.2	93.2	52.9	42.4	36.8	
26	29.6	92.0	173.2	732.2	425.2	221.0	365.0	249.5	90.9	52.9	41.6	35.2	
27	35.2	96.8	540.0	837.6	419.5	200.0	341.6	201.5	86.5	52.0	40.8	33.6	
28	34.4	110.0	564.8	1037.2	393.8	248.0	330.8	177.4	86.5	51.2	40.8	33.6	
29	32.8	117.2	381.2	870.2	709.2	269.0	395.6	164.8	95.6	51.2		33.6	
30	31.2	89.8	267.5	596.3	1272.0	273.6	408.2	213.5	98.0	49.6		32.8	
31		66.0		438.5	1414.6		372.2		84.3	46.8		32.8	
TOTAL	906.8	1981.3	5296.7	14281.9	12652.2	17743.3	9807.5	8589.5	4520.1	1914.8	1318.4	1127.2	80139.6 CMSDAY
MEAN	30.2	63.9	176.6	460.7	408.1	591.4	316.4	286.3	145.8	61.8	47.1	36.4	219.6 CMS
MAX	48.0	181.6	564.8	1037.2	1414.6	1365.0	442.3	492.0	270.5	77.0	55.6	40.8	1414.6 CMS
MIN	25.0	24.4	45.6	156.4	177.4	200.0	224.0	164.8	84.3	48.9	40.8	32.8	24.4 CMS
RUNOFF	78.35	171.18	457.63	1233.95	1093.15	1533.02	847.37	742.13	390.54	165.44	113.91	97.39	6924.06 MCM

MOMENTARY PEAK 1423.90 CMS, AT 7.99 M (MSL), AT 1.00 HOURS, ON SEP 1, 1980

RUNOFF YIELD 49.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 322.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

TAPI RIVER AT PHRASAENG, SURAT THANI (X.37A)

LOCATION — LAT. 8°-34'-03" N., LONG. 99°-15'-15" E., ON LEFT BANK AT TAMBON YAN DIN DAENG, AMPHOE PHRASAENG, SURAT THANI.

DRAINAGE AREA — 5,200 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +4.83 M.(M.S.L.)

BENCH MARK — B.M.=H.D.

LOCATION — ALONG THE GAGE LINE.

ELEVATION — +10.680 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

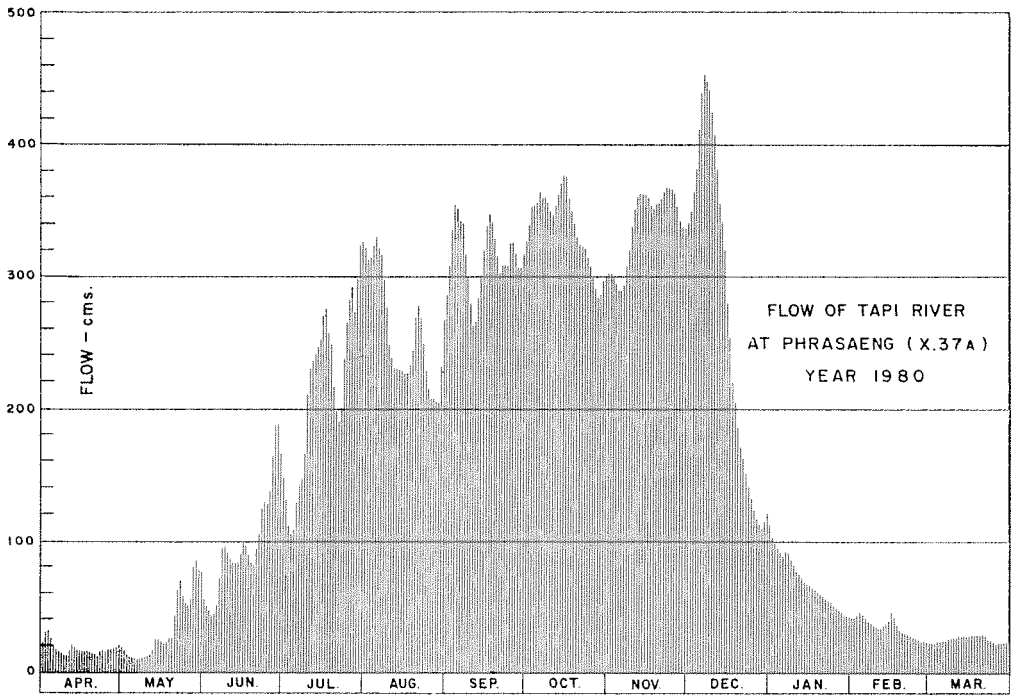
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.68	5.65	6.38	8.00	9.94	9.74	9.99	9.82	10.06	7.38	6.11	5.73	
2	5.86	5.60	6.27	7.72	9.89	9.93	10.08	9.82	10.11	7.25	6.10	5.73	
3	5.91	5.53	6.21	7.41	9.90	10.07	10.14	9.80	10.19	7.15	6.14	5.73	
4	5.80	5.50	6.15	7.23	9.96	10.15	10.15	9.76	10.29	7.07	6.18	5.75	
5	5.68	5.48	6.17	7.32	10.02	10.13	10.16	9.71	10.43	7.00	6.14	5.75	
6	5.61	5.47	6.28	7.68	10.01	10.08	10.19	9.71	10.55	6.97	6.09	5.77	
7	5.57	5.47	6.56	7.86	9.93	10.06	10.18	9.76	10.63	7.00	6.05	5.77	
8	5.54	5.47	7.03	7.95	9.80	9.93	10.18	9.86	10.63	7.00	6.03	5.78	
9	5.53	5.49	7.09	8.23	9.59	9.75	10.17	9.96	10.58	6.91	6.00	5.79	
10	5.52	5.50	7.03	8.80	9.36	9.54	10.13	10.05	10.51	6.83	5.98	5.80	
11	5.60	5.53	6.90	9.09	9.18	9.46	10.11	10.13	10.42	6.76	5.96	5.81	
12	5.67	5.55	6.85	9.18	9.11	9.54	10.14	10.18	10.30	6.72	5.95	5.82	
13	5.64	5.63	6.85	9.21	9.11	9.68	10.19	10.19	10.19	6.65	6.00	5.83	
14	5.62	5.76	6.86	9.28	9.10	9.82	10.24	10.19	10.08	6.60	6.04	5.83	
15	5.58	5.77	6.98	9.39	9.08	9.95	10.27	10.19	9.90	6.57	6.06	5.83	
16	5.58	5.72	7.13	9.54	9.07	10.05	10.26	10.19	9.63	6.54	6.20	5.83	
17	5.59	5.69	7.10	9.59	9.08	10.11	10.21	10.16	9.31	6.52	6.13	5.85	
18	5.59	5.70	6.98	9.52	9.15	10.09	10.13	10.13	8.99	6.49	6.00	5.85	
19	5.57	5.76	6.86	9.33	9.30	10.01	10.07	10.15	8.73	6.46	5.92	5.85	
20	5.55	5.79	6.82	9.01	9.51	9.90	10.01	10.16	8.50	6.42	5.88	5.84	
21	5.53	5.97	7.09	8.70	9.60	9.82	9.97	10.18	8.33	6.39	5.86	5.84	
22	5.53	6.47	7.29	8.59	9.53	9.86	9.96	10.20	8.20	6.36	5.83	5.82	
23	5.58	6.61	7.57	8.76	9.35	9.87	9.95	10.23	8.06	6.32	5.82	5.77	
24	5.61	6.45	7.68	9.21	9.10	9.87	9.93	10.22	7.88	6.30	5.80	5.77	
25	5.59	6.33	7.62	9.50	8.90	9.97	9.88	10.22	7.71	6.27	5.78	5.71	
26	5.62	6.26	7.82	9.66	8.82	9.98	9.82	10.21	7.58	6.24	5.76	5.71	
27	5.63	6.35	8.24	9.73	8.83	9.93	9.75	10.16	7.46	6.21	5.75	5.71	
28	5.63	6.78	8.55	9.59	8.78	9.85	9.67	10.08	7.38	6.18	5.74	5.73	
29	5.65	6.89	8.58	9.87	8.82	9.85	9.69	10.05	7.34	6.15		5.73	
30	5.66	6.79	8.39	9.95	9.06	9.91	9.77	10.04	7.45	6.14		5.73	
31		6.57		9.98	9.51		9.81		7.52	6.12		5.74	
MEAN	5.62	5.92	7.11	8.87	9.37	9.90	10.04	10.05	9.19	6.61	5.97	5.78	
MAX	5.91	6.89	8.58	9.98	10.02	10.15	10.27	10.23	10.63	7.38	6.20	5.85	10.63
MIN	5.52	5.47	6.15	7.23	9.78	9.46	9.67	9.71	7.34	6.12	5.74	5.71	5.47

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.[illegible] M (MSL), AT 21.00 HOURS, ON DEC 7, 1980

ZERO GAGE AT BOTTOM ELEVATION [illegible] M (MSL), RIVER BED 4.45 M (MSL)

LEFT BANK ELEVATION [illegible].73 M (MSL)

RIGHT BANK ELEVATION 12.82 M (MSL), DRAINAGE AREA 5200 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	21.0	19.5	57.4	150.5	320.4	292.8	328.4	302.8	339.6	112.8	42.6	23.5	
2	30.0	17.0	51.3	133.2	312.6	318.8	342.8	302.8	347.8	105.2	42.0	23.5	
3	32.5	13.5	48.0	114.6	314.0	341.2	353.2	300.0	362.2	99.8	44.2	23.5	
4	27.0	12.0	44.8	104.1	323.6	355.0	355.0	295.2	381.1	95.4	46.4	24.5	
5	21.0	11.0	45.8	109.2	333.2	351.4	356.8	289.2	409.3	91.5	44.2	24.5	
6	17.5	10.5	51.9	130.8	331.6	342.8	362.2	289.2	435.0	89.8	41.5	25.5	
7	15.5	10.5	67.3	141.6	318.8	339.6	360.4	295.2	453.2	91.5	39.5	25.5	
8	14.0	10.5	93.1	147.2	300.0	318.8	360.4	308.4	453.2	91.5	38.5	26.0	
9	13.5	11.5	96.4	165.5	275.9	294.0	358.6	323.6	441.6	86.6	37.0	26.5	
10	13.0	12.0	93.1	205.5	252.4	270.7	351.4	338.0	426.2	82.2	36.0	27.0	
11	17.0	13.5	86.0	228.4	236.4	262.3	347.8	351.4	407.2	78.3	35.0	27.5	
12	20.5	14.5	83.2	236.4	230.2	270.7	353.2	360.4	383.0	76.1	34.5	28.0	
13	19.0	18.5	83.2	239.0	230.2	285.8	362.2	362.2	362.2	72.2	37.0	28.5	
14	18.0	25.0	83.8	245.2	229.3	302.8	371.6	362.2	342.8	69.5	39.0	28.5	
15	16.0	25.5	90.4	255.1	227.6	322.0	377.3	362.2	314.0	67.8	40.0	28.5	
16	16.0	23.0	98.6	270.7	226.7	338.0	375.4	362.2	280.3	66.2	47.5	28.5	
17	16.5	21.5	97.0	275.9	227.6	347.8	365.9	356.8	247.9	65.1	43.6	29.5	
18	16.5	22.0	90.4	268.6	233.7	344.4	351.4	351.4	219.7	63.5	37.0	29.5	
19	15.5	25.0	83.8	249.7	247.0	331.6	341.2	355.0	200.3	61.8	33.0	29.5	
20	14.5	26.5	81.6	221.4	267.5	314.0	331.6	356.8	184.0	59.6	31.0	29.0	
21	13.5	35.5	96.4	198.0	277.0	302.8	325.2	360.4	172.1	57.9	30.0	29.0	
22	13.5	62.3	107.4	190.3	269.6	308.4	323.6	364.0	163.5	56.3	28.5	28.0	
23	16.0	70.0	124.2	202.5	251.5	309.8	322.0	369.7	154.4	54.1	28.0	25.5	
24	17.5	61.3	130.8	239.0	229.3	309.8	318.8	367.8	142.8	53.0	27.0	25.5	
25	16.5	54.7	127.2	266.5	213.0	325.2	311.2	367.8	132.6	51.3	26.0	22.5	
26	18.0	50.8	139.2	283.6	207.0	326.8	302.8	365.9	124.8	49.7	25.0	22.5	
27	18.5	55.7	166.1	291.6	207.8	318.8	294.0	356.8	117.6	48.0	24.5	22.5	
28	18.5	79.4	187.5	275.9	204.0	307.0	284.7	342.8	112.8	46.4	24.0	23.5	
29	19.5	85.4	189.6	309.8	207.0	307.0	286.9	338.0	110.4	44.8		23.5	
30	20.0	79.9	176.3	322.0	225.8	315.6	296.4	336.4	117.0	44.2		23.5	
31		67.8		326.8	267.5		301.4		121.2	43.1		24.0	
TOTAL	546.0	1045.8	2971.8	6798.6	7998.2	9475.7	10473.8	10194.6	8459.8	2175.2	1002.5	807.0	61948.9 CMSDAY
MEAN	18.2	33.7	99.1	219.3	258.0	315.9	337.9	339.8	272.9	70.2	35.8	26.0	169.7 CMS
MAX	32.5	85.4	189.6	326.8	333.2	355.0	377.3	369.7	453.2	112.8	47.5	29.5	453.2 CMS
MIN	13.0	10.5	44.8	104.1	204.0	262.3	284.7	289.2	110.4	43.1	24.0	22.5	10.5 CMS
RUNOFF	47.17	90.36	256.76	587.40	691.04	818.70	904.93	880.81	730.93	187.94	86.62	69.72	5352.39 MCM

MOMENTARY PEAK 455.60 CMS, AT 10.64 M (MSL), AT 21.00 HOURS, ON DEC 7, 1980

RUNOFF YIELD 32.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 87.62 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG PHUM DUANG AT BAN TA KHUN, SURAT THANI (X.38A)

LOCATION — LAT. 8°-54'-56" N., LONG. 98°-53'-30" E., ON RIGHT BANK AT BAN TA KHUN, KING AMPHOE BAN TA KHUN, SURAT THANI.

DRAINAGE AREA — 2,706 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +3.508 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC BUILDING.

ELEVATION — +20.697 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITTMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1974 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

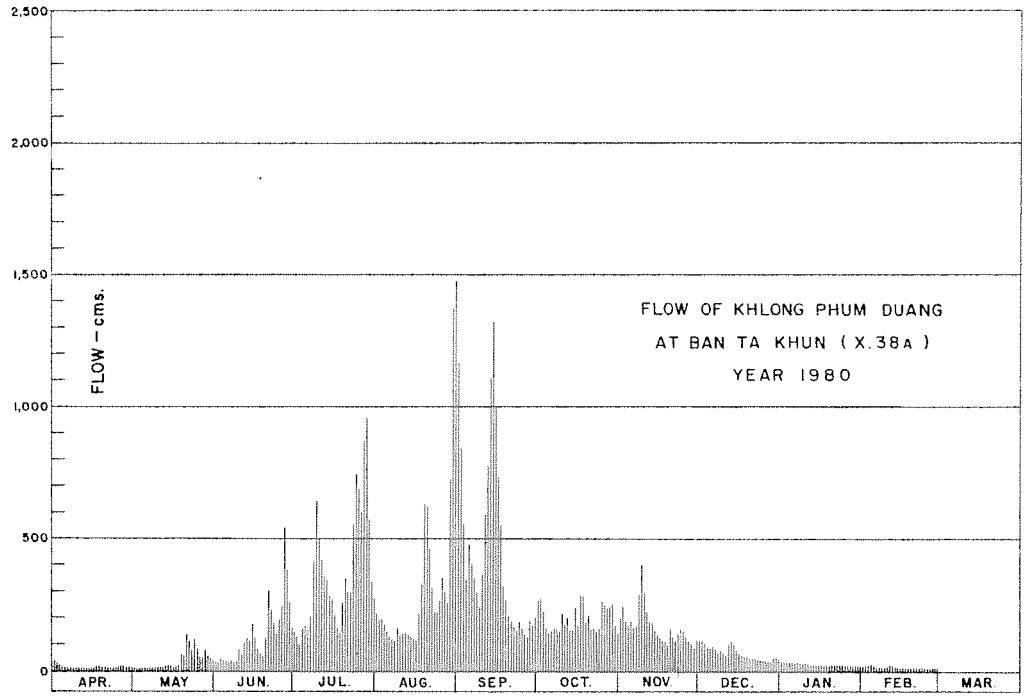
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 168 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING MAR.1-31,1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.85	4.35	4.94	6.48	7.22	13.65	7.79	7.33	6.15	4.95	4.58	*******	
2	4.67	4.31	4.92	6.24	7.03	11.80	7.87	7.60	6.13	4.93	4.62	*******	
3	4.48	4.29	5.09	5.98	7.05	9.74	7.47	7.05	5.96	4.91	4.68	*******	
4	4.42	4.29	4.88	6.76	6.78	8.50	6.88	6.89	5.74	4.89	4.68	*******	
5	4.39	4.29	4.86	6.79	6.48	9.45	6.57	7.08	5.77	4.87	4.62	*******	
6	4.37	4.29	4.79	6.64	6.23	8.87	6.68	6.82	5.82	4.85	4.58	*******	
7	4.31	4.38	4.91	7.17	6.11	8.43	6.76	6.89	5.65	4.85	4.56	*******	
8	4.31	4.40	4.73	9.01	6.07	8.01	6.73	7.70	5.54	4.83	4.55	*******	
9	4.31	4.39	4.93	10.54	6.73	7.60	6.62	8.92	5.61	4.81	4.56	*******	
10	4.30	4.40	5.59	10.07	6.37	8.77	7.29	8.27	5.54	4.80	4.54	*******	
11	4.30	4.38	5.36	9.38	6.58	10.26	6.87	7.42	5.45	4.78	4.53	*******	
12	4.32	4.50	6.01	8.56	6.58	11.25	7.05	7.04	5.94	4.76	4.66	*******	
13	4.30	4.58	6.21	8.50	6.42	13.24	6.69	6.95	6.13	4.74	4.59	*******	
14	4.29	4.57	6.17	7.92	6.32	14.05	6.71	6.65	5.93	4.73	4.58	*******	
15	4.34	4.53	6.91	7.80	6.16	13.24	7.53	6.42	5.67	4.72	4.54	*******	
16	4.32	4.42	6.08	7.29	6.17	11.41	6.92	6.23	5.46	4.72	4.51	*******	
17	4.35	4.41	5.73	6.79	7.59	9.46	7.99	6.10	5.39	4.71	4.50	*******	
18	4.48	4.65	5.51	6.45	8.34	8.32	7.92	6.09	5.34	4.70	4.48	*******	
19	4.43	5.38	5.29	7.75	10.48	7.67	7.01	5.98	5.27	4.69	4.47	*******	
20	4.39	5.30	6.25	8.54	10.43	7.23	7.20	6.77	5.21	4.68	4.47	*******	
21	4.35	6.30	8.08	8.00	9.31	6.95	6.72	6.27	5.17	4.67	4.46	*******	
22	4.33	6.03	7.50	8.08	8.09	6.87	6.74	6.13	5.15	4.66	4.46	*******	
23	4.33	5.55	7.04	10.09	7.39	6.62	6.45	6.47	5.11	4.65	4.46	*******	
24	4.34	6.22	6.43	11.17	7.39	6.97	6.76	6.64	5.07	4.64	4.45	*******	
25	4.42	5.54	7.16	10.90	7.91	6.59	7.76	6.72	5.05	4.63	4.45	*******	
26	4.50	5.22	7.55	10.31	8.47	6.36	7.62	6.23	5.03	4.62	4.45	*******	
27	4.44	5.22	9.96	11.71	8.05	6.35	7.50	6.00	5.00	4.61	4.44	*******	
28	4.43	5.61	8.87	12.27	7.76	7.07	7.58	5.86	4.98	4.60	4.44	*******	
29	4.44	5.17	7.56	10.24	11.36	6.87	8.09	5.78	5.22	4.59		*******	
30	4.39	5.04	6.79	8.55	14.37	7.17	7.99	6.06	5.13	4.58		*******	
31		4.87		7.75	14.80		7.62		4.99	4.58		*******	
MEAN	4.40	4.87	6.20	8.51	7.94	8.96	7.21	6.75	5.47	4.73	4.53	*******	
MAX	4.85	6.30	9.96	12.27	14.80	14.05	8.09	8.92	6.15	4.95	4.68	*******	14.80
MIN	4.29	4.29	4.73	5.98	6.07	6.35	6.45	5.78	4.98	4.58	4.44	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.01 M (MSL), AT 4.00 HOURS, ON AUG 31, 1980
ZERO GAGE AT BOTTOM ELEVATION 3.51 M (MSL), RIVER BED 2.68 M (MSL)
LEFT BANK ELEVATION 15.68 M (MSL)
RIGHT BANK ELEVATION 20.84 M (MSL), DRAINAGE AREA 2706 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	30.5	8.7	35.0	142.0	208.0	1236.5	268.9	219.0	120.1	35.5	17.2	*******	
2	21.5	7.7	34.0	126.1	189.0	866.0	277.7	248.0	118.8	34.5	19.0	*******	
3	13.2	7.2	42.5	108.5	191.0	515.0	233.7	191.0	106.9	33.5	22.0	*******	
4	10.8	7.2	32.0	164.4	166.2	350.0	175.2	176.1	88.4	32.5	22.0	*******	
5	9.7	7.2	31.0	167.1	142.0	473.0	148.0	194.0	91.0	31.5	19.0	*******	
6	9.2	7.2	27.5	153.6	125.5	397.1	157.2	169.8	95.1	30.5	17.2	*******	
7	7.7	9.5	33.5	203.0	117.5	341.6	164.4	176.1	80.9	30.5	16.4	*******	
8	7.7	10.0	24.5	415.3	114.8	293.1	161.7	259.0	71.7	29.5	16.0	*******	
9	7.7	9.7	34.5	641.8	161.7	248.0	151.8	403.6	77.6	28.5	16.4	*******	
10	7.5	10.0	75.9	565.2	134.7	384.1	215.0	322.4	71.7	28.0	15.6	*******	
11	7.5	9.5	57.6	463.4	148.7	595.6	174.3	228.2	64.2	27.0	15.2	*******	
12	8.0	14.0	110.9	357.2	148.7	763.0	191.0	190.0	105.2	26.0	21.0	*******	
13	7.5	17.2	124.1	350.0	138.1	1150.4	158.1	181.5	118.8	25.0	17.6	*******	
14	7.2	16.8	121.5	283.2	131.4	1320.5	159.9	154.5	104.3	24.5	17.2	*******	
15	8.5	15.2	177.9	270.0	120.8	1150.4	240.3	138.1	82.6	24.0	15.6	*******	
16	8.0	10.8	115.5	215.0	121.5	791.9	178.8	125.5	65.0	24.0	14.4	*******	
17	8.7	10.4	87.6	167.1	246.9	474.4	290.9	116.8	59.4	23.5	14.0	*******	
18	13.2	20.5	69.2	140.0	330.8	328.4	283.2	116.2	56.4	23.0	13.2	*******	
19	11.2	58.8	53.4	264.5	631.6	255.7	187.0	108.5	52.2	22.5	12.8	*******	
20	9.7	54.0	126.8	354.8	623.1	209.0	206.0	165.3	48.6	22.0	12.8	*******	
21	8.7	130.1	300.8	292.0	454.3	181.5	160.8	128.1	46.5	21.5	12.4	*******	
22	8.2	112.2	237.0	300.8	301.9	174.3	162.6	118.8	45.5	21.0	12.4	*******	
23	8.2	72.5	190.0	568.4	225.0	151.8	140.0	141.4	43.5	20.5	12.4	*******	
24	8.5	124.8	138.7	748.9	225.0	183.3	164.4	153.6	41.5	20.0	12.0	*******	
25	10.8	71.7	202.0	703.0	282.1	149.3	265.6	160.8	40.5	19.5	12.0	*******	
26	14.0	49.2	242.5	603.6	346.4	134.1	250.2	125.5	39.5	19.0	12.0	*******	
27	11.6	49.2	548.0	848.9	297.5	133.4	237.0	110.2	38.0	18.5	11.6	*******	
28	11.2	77.6	397.1	955.3	265.6	193.0	245.8	98.5	37.0	18.0	11.6	*******	
29	11.6	46.5	243.6	592.4	782.8	174.3	301.9	91.8	49.2	17.6		*******	
30	9.7	40.0	167.1	356.0	1387.7	203.0	290.9	114.2	44.5	17.2		*******	
31		31.5		264.5	1480.0		250.2		37.5	17.2		*******	
TOTAL	317.5	1116.9	4081.7	11786.0	10240.3	13821.7	6492.5	5126.5	2142.1	766.0	431.0	*******	******** CMSDAY
MEAN	10.6	36.0	136.1	380.2	330.3	460.7	209.4	170.9	69.1	24.7	15.4	*******	******* CMS
MAX	30.5	130.1	548.0	955.3	1480.0	1320.5	301.9	403.6	120.1	35.5	22.0	*******	1480.0 CMS
MIN	7.2	7.2	24.5	108.5	114.8	133.4	140.0	91.8	37.0	17.2	11.6	*******	******* CMS
RUNOFF	27.43	96.50	352.66	1018.31	884.76	1194.19	560.95	442.93	185.08	66.18	37.24	*******	******** MCM

MOMENTARY PEAK 1526.30 CMS, AT 15.01 M (MSL), AT 4.00 HOURS, ON AUG 31, 1980

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 564.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

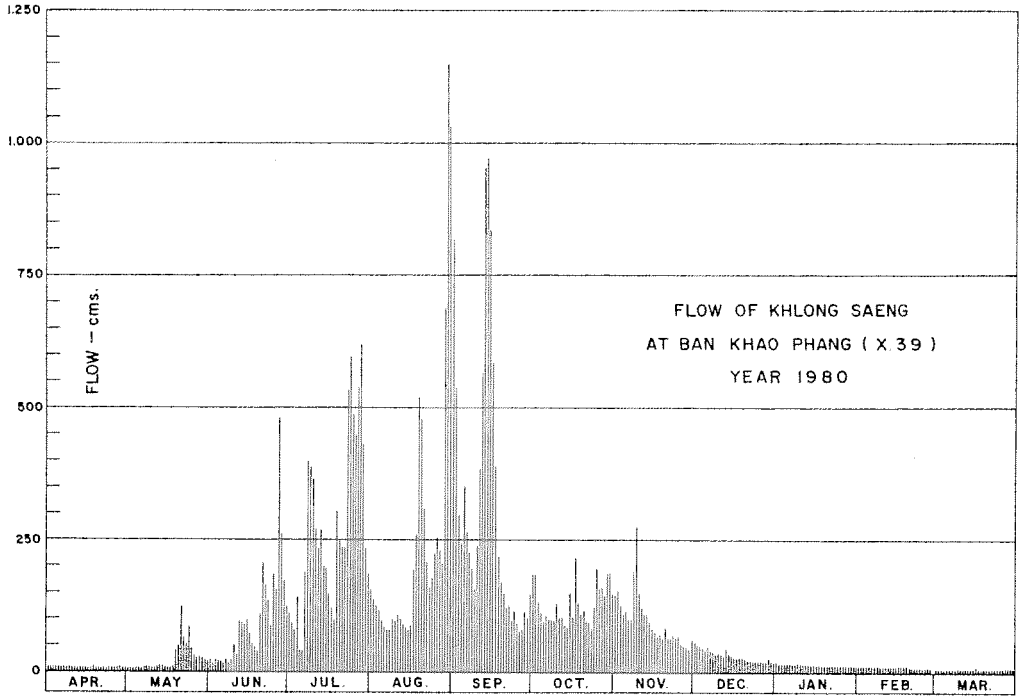
KHLONG SAENG AT BAN KHAO PHANG, SURAT THANI (X.39)

LOCATION	LAT. 8°-57'-07" N., LONG. 98°-48'-53" E., ON LEFT BANK AT BAN KHAO PHANG, AMPHOE KHIRI RATTHANIKHOM, SURAT THANI.
DRAINAGE AREA	1,437 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+8.550 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS UPSTREAM FROM THE MEASURING LINE.
ELEVATION	+21.625 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	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 125 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.23	9.20	9.61	10.99	11.39	15.77	11.81	11.37	10.30	9.55	9.34	9.25	
2	9.22	9.18	9.52	10.78	11.26	14.26	11.82	11.49	10.17	9.53	9.38	9.25	
3	9.22	9.18	9.67	10.55	15.20	12.93	11.29	11.18	10.13	9.52	9.41	9.26	
4	9.22	9.18	9.59	11.35	10.99	12.41	10.96	10.99	10.05	9.51	9.40	9.25	
5	9.21	9.19	9.59	9.99	10.79	13.32	10.77	11.16	10.01	9.50	9.35	9.25	
6	9.20	9.20	9.50	9.98	10.62	12.55	10.95	10.85	10.14	9.49	9.34	9.25	
7	9.20	9.23	9.63	11.69	10.55	12.23	10.87	10.85	9.97	9.49	9.33	9.22	
8	9.19	9.26	9.45	13.71	10.53	11.87	10.84	11.47	9.92	9.48	9.33	9.23	
9	9.19	9.23	9.65	13.61	10.83	11.58	10.82	12.71	9.89	9.47	9.32	9.25	
10	9.18	9.23	10.15	13.44	10.78	13.13	11.19	11.57	9.89	9.46	9.32	9.25	
11	9.18	9.24	9.80	12.71	10.90	13.99	10.87	11.14	9.85	9.45	9.31	9.25	
12	9.21	9.38	10.77	12.33	10.83	15.15	10.93	10.96	9.83	9.44	9.33	9.25	
13	9.20	9.35	10.73	12.60	10.70	17.15	10.74	10.94	10.01	9.44	9.32	9.24	
14	9.19	9.30	10.71	11.95	10.61	17.23	10.63	10.75	9.85	9.43	9.33	9.24	
15	9.21	9.27	10.79	11.91	10.53	15.63	11.45	10.60	9.80	9.42	9.32	9.22	
16	9.20	9.24	10.47	11.43	10.61	13.95	10.87	10.49	9.77	9.42	9.31	9.22	
17	9.25	9.26	10.17	11.07	11.95	12.69	12.10	10.41	9.78	9.41	9.30	9.22	
18	9.29	9.31	10.03	10.81	12.66	12.05	11.32	10.44	9.74	9.41	9.30	9.21	
19	9.25	9.98	9.87	12.95	14.57	11.63	10.95	10.34	9.71	9.40	9.29	9.21	
20	9.22	10.11	10.96	12.47	14.29	11.37	11.26	10.61	9.69	9.40	9.29	9.20	
21	9.20	11.13	12.03	12.31	12.91	11.11	10.81	10.32	9.67	9.39	9.29	9.20	
22	9.20	10.36	11.69	12.33	12.05	11.15	10.75	10.32	9.66	9.39	9.28	9.20	
23	9.19	10.14	11.21	14.59	11.61	10.83	10.60	10.41	9.65	9.38	9.28	9.24	
24	9.19	10.67	10.65	15.03	11.81	11.04	11.01	10.37	9.63	9.38	9.28	9.25	
25	9.23	10.04	11.80	14.36	12.18	10.75	11.92	10.42	9.61	9.37	9.27	9.23	
26	9.22	9.76	11.57	14.07	12.51	10.58	11.53	10.23	9.61	9.37	9.27	9.23	
27	9.22	9.72	14.29	16.62	12.30	10.60	11.57	10.15	9.59	9.37	9.27	9.23	
28	9.29	9.80	12.61	15.49	12.03	11.00	11.41	10.08	9.58	9.36	9.26	9.21	
29	9.25	9.75	11.65	12.87	16.25	10.91	11.81	10.05	9.75	9.35		9.21	
30	9.22	9.65	11.11	12.35	18.21	11.43	11.85	10.35	9.63	9.35		9.21	
31		9.57		11.79	17.40		11.44		9.57	9.34		9.21	
MEAN	9.22	9.58	10.64	12.52	12.25	12.68	11.20	10.77	9.82	9.43	9.31	9.23	
MAX	9.29	11.13	14.29	16.62	18.21	17.23	12.10	12.71	10.30	9.55	9.41	9.26	18.21
MIN	9.18	9.18	9.45	9.98	10.53	10.58	10.60	10.05	9.57	9.34	9.26	9.20	9.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 18.29 M (MSL), AT 14.00 HOURS, ON AUG 30, 1980
ZERO GAGE AT BOTTOM ELEVATION 8.55 M (MSL), RIVER BED 8.40 M (MSL)
LEFT BANK ELEVATION 21.82 M (MSL)
RIGHT BANK ELEVATION 18.35 M (MSL), DRAINAGE AREA 1437 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.05	7.00	22.40	113.20	145.20	714.90	185.00	143.60	63.00	20.00	11.90	8.75	
2	7.70	6.30	18.80	96.60	134.80	476.40	186.00	154.10	54.05	19.20	13.30	8.75	
3	7.70	6.30	24.80	80.50	622.00	303.60	137.20	128.40	51.45	18.80	14.40	9.10	
4	7.70	6.30	21.60	142.00	113.20	245.10	110.80	113.20	46.25	18.40	14.00	8.75	
5	7.35	6.65	21.60	42.35	97.30	350.40	95.90	126.80	43.65	18.00	12.25	8.75	
6	7.00	7.00	18.00	41.70	85.40	260.50	110.00	102.00	52.10	17.60	11.90	8.75	
7	7.00	8.05	23.20	173.00	80.50	227.00	103.60	102.00	41.05	17.60	11.55	7.70	
8	6.65	9.10	16.00	400.30	79.10	191.00	101.20	152.30	37.80	17.20	11.55	8.05	
9	6.65	8.05	24.00	387.30	100.40	162.20	99.60	278.10	35.85	16.80	11.20	8.75	
10	6.30	8.05	52.75	365.20	96.60	327.60	129.20	161.30	35.85	16.40	11.20	8.75	
11	6.30	8.40	30.00	278.10	106.00	438.60	103.60	125.20	33.25	16.00	10.85	8.75	
12	7.35	13.30	95.90	237.00	100.40	614.00	108.40	110.80	31.95	15.60	11.55	8.75	
13	7.00	12.25	93.10	266.00	91.00	955.92	93.80	109.20	43.65	15.60	11.20	8.40	
14	6.65	10.50	91.70	199.00	84.70	970.45	86.10	94.50	33.25	15.20	11.55	8.40	
15	7.35	9.45	97.30	195.00	79.10	691.10	150.50	84.00	30.00	14.80	11.20	7.70	
16	7.00	8.40	74.90	148.70	84.70	433.00	103.60	76.30	28.80	14.80	10.85	7.70	
17	8.75	9.10	54.05	119.60	199.00	275.90	214.00	70.70	29.20	14.40	10.50	7.70	
18	10.15	10.85	44.95	98.80	272.60	209.00	139.60	72.80	27.60	14.40	10.50	7.35	
19	8.75	41.70	34.55	306.00	521.50	167.00	110.00	65.80	26.40	14.00	10.15	7.35	
20	7.70	50.15	110.80	251.70	480.60	143.60	134.80	84.70	25.60	14.00	10.15	7.00	
21	7.00	124.40	207.00	235.00	301.20	122.80	98.80	64.40	24.80	13.65	10.15	7.00	
22	7.00	67.20	173.00	237.00	209.00	126.00	94.50	64.40	24.40	13.65	9.80	7.00	
23	6.65	52.10	130.80	524.50	165.00	100.40	84.00	70.70	24.00	13.30	9.80	8.40	
24	6.65	88.90	87.50	594.80	185.00	117.20	114.80	67.90	23.20	13.30	9.80	8.75	
25	8.05	45.65	164.00	490.40	222.00	94.50	196.00	71.40	22.40	12.95	9.45	8.05	
26	7.70	28.40	161.30	449.80	256.10	82.60	157.70	58.10	22.40	12.95	9.45	8.05	
27	7.70	26.80	480.60	859.63	234.00	84.00	161.30	52.75	21.60	12.95	9.45	8.05	
28	10.15	30.00	267.10	668.40	207.00	114.00	146.90	48.20	21.20	12.60	9.10	7.35	
29	8.75	28.00	169.00	296.40	796.50	106.80	185.00	46.25	28.00	12.25		7.35	
30	7.70	24.00	122.20	239.00	1151.90	148.70	189.00	66.50	23.20	12.25		7.35	
31		20.80		183.00	1001.33		149.60		20.80	11.90		7.35	
TOTAL	226.45	783.10	2953.50	8719.98	8303.13	9254.26	4080.50	2966.40	1026.75	470.55	308.75	249.90	39343.22 CMSDAY
MEAN	7.55	25.26	98.45	281.29	267.84	308.48	131.63	98.88	33.12	15.18	11.03	8.06	107.79 CMS
MAX	10.15	124.40	480.60	859.63	1151.90	970.45	214.00	278.10	63.00	20.00	14.40	9.10	1151.90 CMS
MIN	6.30	6.30	16.00	41.70	79.10	82.60	84.00	46.25	20.80	11.90	9.10	7.00	6.30 CMS
RUNOFF	19.565	67.660	255.182	753.406	717.390	799.568	352.555	256.297	88.711	40.655	26.676	21.591	3399.254 MCM

MOMENTARY PEAK 1167.10 CMS, AT 18.29 M (MSL), AT 14.30 HOURS, ON AUG 30, 1980

RUNOFF YIELD 75.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 812.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG CHONG LOM AT BAN CHONG LOM, SURAT THANI (X.57)

LOCATION — LAT. 8°-53'-10" N., LONG. 98°-41'-27" E., ON LEFT BANK DOWNSTREAM SIDE OF THE CONCRETE BRIDGE OF TAKUAPA-SURAT THANI HIGHWAY, AMPHOE PHANOM, SURAT THANI.

DRAINAGE AREA — 8 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — B.M.1 ABOUT 6 METERS, B.M.2 ABOUT 13 METERS FROM THE GAGE SITE.

ELEVATION — B.M.1=+3.183 M. (A.D.), B.M.2=+3.262 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1972 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972-1975

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972-1975

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 7 DISCHARGE MEASUREMENTS MADE IN 1975.

REMARKS — NO RECORDS DURING DEC.1-31,1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

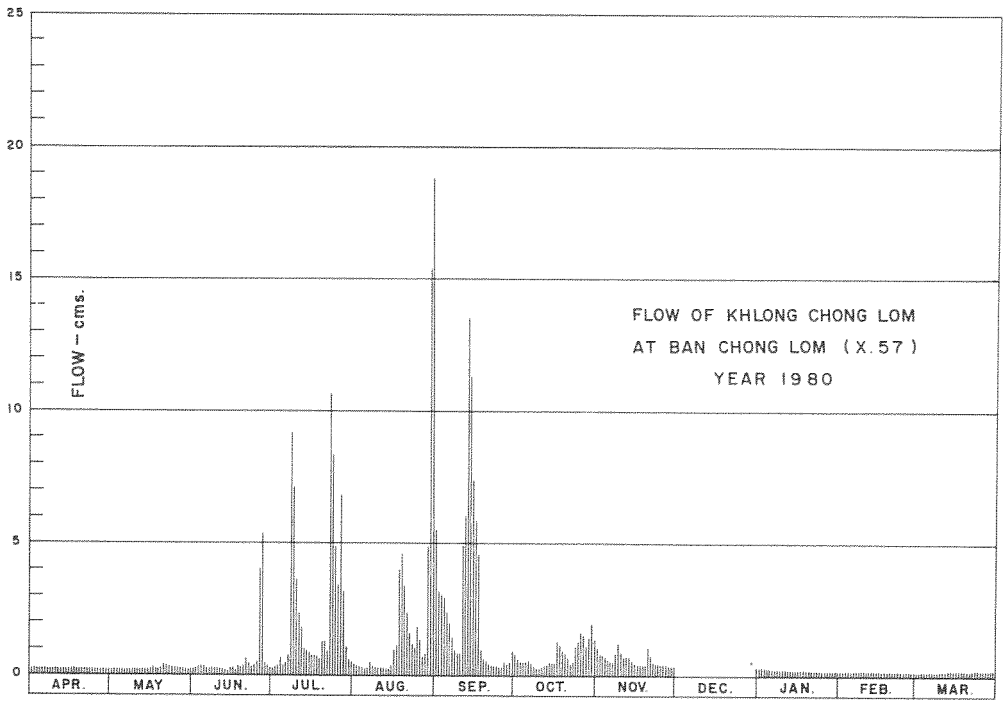
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.48	0.44	0.53	0.53	0.64	2.58	0.87	1.07	*******	0.54	0.46	0.46	
2	0.48	0.44	0.51	0.56	0.62	1.98	0.77	0.99	*******	0.54	0.46	0.46	
3	0.48	0.44	0.55	0.62	0.58	1.94	0.74	0.96	*******	0.54	0.46	0.46	
4	0.48	0.45	0.59	0.87	0.57	1.88	0.72	0.87	*******	0.54	0.46	0.46	
5	0.48	0.45	0.56	0.65	0.53	1.75	0.78	0.84	*******	0.53	0.46	0.46	
6	0.48	0.46	0.52	0.68	0.50	1.61	0.72	0.75	*******	0.53	0.46	0.46	
7	0.47	0.45	0.49	0.82	0.69	1.39	0.66	0.73	*******	0.53	0.46	0.46	
8	0.47	0.46	0.53	3.54	0.60	1.14	0.59	0.93	*******	0.51	0.46	0.46	
9	0.47	0.47	0.51	3.09	0.55	0.97	0.54	1.16	*******	0.51	0.45	0.46	
10	0.47	0.48	0.51	2.27	0.57	0.93	0.59	0.93	*******	0.51	0.45	0.46	
11	0.47	0.46	0.47	1.75	0.56	2.49	0.66	0.86	*******	0.51	0.45	0.46	
12	0.47	0.46	0.49	1.35	0.55	2.72	0.67	0.86	*******	0.50	0.45	0.45	
13	0.46	0.46	0.54	1.06	0.54	4.37	0.77	0.86	*******	0.50	0.45	0.45	
14	0.46	0.45	1.05	0.96	0.53	3.91	0.76	0.77	*******	0.50	0.40	0.45	
15	0.46	0.47	0.54	0.94	0.53	3.20	0.77	0.65	*******	0.50	0.40	0.45	
16	0.46	0.47	0.55	0.91	1.00	2.85	0.69	0.65	*******	0.50	0.40	0.45	
17	0.46	0.58	0.52	0.88	1.14	2.40	1.22	0.65	*******	0.50	0.40	0.45	
18	0.46	0.53	0.50	0.86	2.21	1.06	1.12	0.65	*******	0.50	0.40	0.45	
19	0.46	0.52	0.60	0.83	2.40	0.84	1.07	0.64	*******	0.49	0.40	0.45	
20	0.46	0.53	0.48	1.22	2.05	0.73	0.91	1.12	*******	0.49	0.40	0.45	
21	0.45	0.61	0.85	1.22	1.70	0.68	0.86	0.98	*******	0.49	0.44	0.45	
22	0.45	0.63	0.73	1.01	1.39	0.65	0.70	0.68	*******	0.49	0.44	0.45	
23	0.45	0.61	0.62	3.83	1.14	0.65	0.72	0.65	*******	0.49	0.44	0.45	
24	0.45	0.58	0.61	3.21	1.09	0.63	1.13	0.66	*******	0.49	0.44	0.45	
25	0.45	0.55	0.67	2.47	1.39	0.60	1.20	0.66	*******	0.49	0.43	0.45	
26	0.44	0.52	2.24	2.03	1.23	0.57	1.36	0.65	*******	0.48	0.43	0.45	
27	0.44	0.52	2.58	3.00	0.89	1.08	1.30	0.64	*******	0.48	0.43	0.45	
28	0.44	0.50	0.69	1.79	0.94	0.69	1.09	0.64	*******	0.48	0.43	0.45	
29	0.44	0.48	0.63	1.15	2.04	0.67	1.26	0.63	*******	0.46		0.49	
30	0.44	0.46	0.57	0.81	5.27	1.03	1.50	0.63	*******	0.46		0.47	
31		0.50		0.73	4.72		1.19		*******	0.46		0.46	
MEAN	0.46	0.50	0.71	1.47	1.26	1.60	0.90	0.79	*******	0.50	0.44	0.46	
MAX	0.48	0.63	2.58	3.83	5.27	4.37	1.50	1.16	*******	0.54	0.46	0.49	5.27
MIN	0.44	0.44	0.47	0.53	0.50	0.57	0.54	0.63	*******	0.46	0.40	0.45	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.35 M (A.D), AT 18.00 HOURS, ON AUG 30, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.62 M (A.D)

LEFT BANK ELEVATION 6.00 M (A.D)

RIGHT BANK ELEVATION 6.01 M (A.D), DRAINAGE AREA 8 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.19	0.27	0.27	0.39	5.25	0.70	1.04	*******	0.28	0.21	0.21	
2	0.22	0.19	0.25	0.30	0.36	3.26	0.56	0.88	*******	0.28	0.21	0.21	
3	0.22	0.19	0.29	0.36	0.32	3.15	0.52	0.84	*******	0.28	0.21	0.21	
4	0.22	0.20	0.33	0.70	0.31	2.98	0.49	0.70	*******	0.28	0.21	0.21	
5	0.22	0.20	0.30	0.40	0.27	2.63	0.57	0.66	*******	0.27	0.21	0.21	
6	0.22	0.21	0.26	0.44	0.24	2.27	0.49	0.53	*******	0.27	0.21	0.21	
7	0.22	0.20	0.23	0.63	0.45	1.72	0.41	0.50	*******	0.27	0.21	0.21	
8	0.22	0.21	0.27	9.21	0.34	1.18	0.33	0.79	*******	0.25	0.21	0.21	
9	0.22	0.22	0.25	7.22	0.29	0.85	0.28	1.22	*******	0.25	0.20	0.21	
10	0.22	0.22	0.25	4.14	0.31	0.79	0.33	0.79	*******	0.25	0.20	0.21	
11	0.22	0.21	0.22	2.63	0.30	4.92	0.41	0.68	*******	0.25	0.20	0.21	
12	0.22	0.21	0.23	1.62	0.29	5.76	0.42	0.68	*******	0.24	0.20	0.20	
13	0.21	0.21	0.28	1.02	0.28	13.57	0.56	0.68	*******	0.24	0.20	0.20	
14	0.21	0.20	1.00	0.84	0.27	11.07	0.54	0.56	*******	0.24	0.16	0.20	
15	0.21	0.22	0.28	0.80	0.27	7.66	0.56	0.40	*******	0.24	0.16	0.20	
16	0.21	0.22	0.29	0.76	0.90	6.26	0.45	0.40	*******	0.24	0.16	0.20	
17	0.21	0.32	0.26	0.71	1.18	4.60	1.34	0.40	*******	0.24	0.16	0.20	
18	0.21	0.27	0.24	0.68	3.95	1.02	1.14	0.40	*******	0.24	0.16	0.20	
19	0.21	0.26	0.34	0.64	4.60	0.66	1.04	0.39	*******	0.23	0.16	0.20	
20	0.21	0.27	0.22	1.34	3.47	0.50	0.76	1.14	*******	0.23	0.16	0.20	
21	0.20	0.35	0.67	1.34	2.50	0.44	0.68	0.87	*******	0.23	0.19	0.20	
22	0.20	0.38	0.50	0.92	1.72	0.40	0.46	0.44	*******	0.23	0.19	0.20	
23	0.20	0.35	0.36	10.66	1.18	0.40	0.49	0.40	*******	0.23	0.19	0.20	
24	0.20	0.32	0.35	7.70	1.08	0.38	1.16	0.41	*******	0.23	0.19	0.20	
25	0.20	0.29	0.42	4.85	1.72	0.34	1.30	0.41	*******	0.23	0.18	0.20	
26	0.19	0.26	4.05	3.41	1.36	0.31	1.64	0.40	*******	0.22	0.18	0.20	
27	0.19	0.26	5.25	6.86	0.73	1.06	1.50	0.39	*******	0.22	0.18	0.20	
28	0.19	0.24	0.45	2.73	0.80	0.45	1.08	0.39	*******	0.22	0.18	0.20	
29	0.19	0.22	0.38	1.20	3.44	0.42	1.42	0.38	*******	0.21		0.23	
30	0.19	0.21	0.31	0.61	18.87	0.96	1.98	0.38	*******	0.21		0.22	
31		0.24		0.50	15.58		1.28		*******	0.21		0.21	
TOTAL	6.27	7.54	18.80	75.49	67.77	85.26	24.89	18.15	*******	7.51	5.28	6.37	******** CMSDAY
MEAN	0.21	0.24	0.63	2.44	2.19	2.84	0.80	0.60	*******	0.24	0.19	0.21	******* CMS
MAX	0.22	0.38	5.25	10.66	18.87	13.57	1.98	1.22	*******	0.28	0.21	0.23	18.87 CMS
MIN	0.19	0.19	0.22	0.27	0.24	0.31	0.28	0.38	*******	0.21	0.16	0.20	******* CMS
RUNOFF	0.542	0.651	1.624	6.522	5.855	7.366	2.150	1.568	*******	0.649	0.456	0.550	******** MCM

MOMENTARY PEAK 19.37 CMS, AT 5.35 M (A.D), AT 18.00 HOURS, ON AUG 30, 1980

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2421.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG SOK AT BAN LANG THAM, SURAT THANI (X.58)

LOCATION — LAT. 8°-53'-05" N., LONG 98°-40'-06" E., ON RIGHT BANK ABOUT 10 METERS DOWNSTREAM FROM THE CONCRETE BRIDGE OF TAKUAPA-SURAT THANI HIGHWAY, AMPHOE PHANOM, SURAT THANI.

DRAINAGE AREA — 312 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — B.M.1 ON RIGHT BANK UNDER JACK FRUIT TREE, B.M.2 ON RIGHT BANK UNDER ROSE APPLE TREE.

ELEVATION — B.M.1=+7.079 M. (A.D.), B.M.2=+6.942 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1972 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

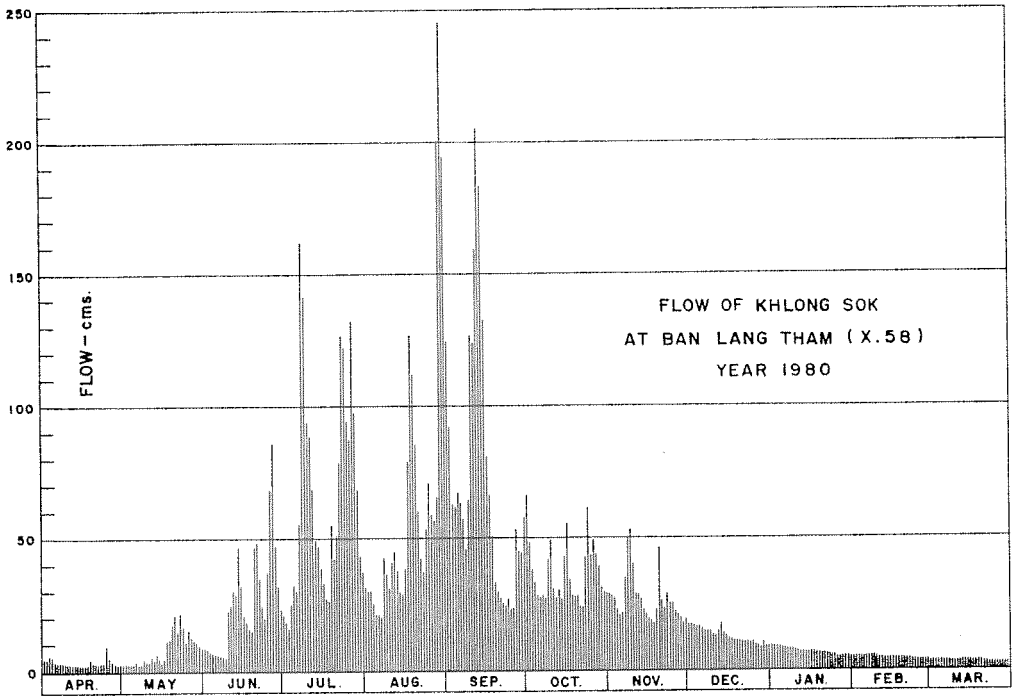
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.22	0.54	1.10	1.51	3.71	2.48	1.37	0.99	0.60	0.43	0.31	
2	0.36	0.22	0.54	0.99	1.44	2.80	1.99	1.35	0.99	0.59	0.43	0.30	
3	0.43	0.21	0.50	0.93	1.44	2.39	1.70	1.24	0.95	0.58	0.43	0.32	
4	0.37	0.20	0.46	1.27	1.32	2.36	1.51	1.22	0.93	0.57	0.44	0.31	
5	0.28	0.21	0.47	1.50	1.14	2.56	1.38	1.13	0.94	0.57	0.43	0.30	
6	0.24	0.28	0.48	1.41	1.13	2.46	1.32	1.14	0.90	0.56	0.42	0.30	
7	0.24	0.23	0.45	1.96	1.10	2.25	1.38	1.36	0.85	0.55	0.42	0.29	
8	0.23	0.24	0.46	4.50	1.81	1.94	1.33	2.02	0.86	0.54	0.40	0.28	
9	0.22	0.35	0.41	4.12	1.66	2.04	1.64	2.14	0.85	0.54	0.39	0.28	
10	0.21	0.27	1.13	3.30	1.45	3.81	2.02	1.68	0.82	0.54	0.38	0.28	
11	0.20	0.28	1.23	2.84	1.76	3.75	1.50	1.42	0.80	0.53	0.38	0.27	
12	0.20	0.38	1.39	2.41	1.73	4.76	1.34	1.36	0.87	0.52	0.40	0.27	
13	0.20	0.36	1.14	2.00	1.88	5.27	1.31	1.34	0.99	0.51	0.37	0.27	
14	0.22	0.45	1.92	1.92	1.48	4.75	1.43	1.17	0.82	0.51	0.37	0.26	
15	0.23	0.34	1.55	1.73	1.34	3.80	1.24	1.10	0.78	0.50	0.36	0.26	
16	0.22	0.29	1.10	1.50	1.58	2.85	2.18	1.05	0.74	0.50	0.35	0.26	
17	0.35	0.34	1.01	1.33	2.29	2.29	1.62	1.03	0.73	0.49	0.35	0.26	
18	0.33	0.69	0.91	1.29	3.83	1.90	1.38	1.01	0.73	0.49	0.35	0.25	
19	0.27	0.74	0.88	2.43	3.53	1.63	1.36	1.19	0.72	0.49	0.35	0.25	
20	0.25	0.98	1.91	1.85	3.15	1.45	1.35	1.94	0.71	0.48	0.35	0.25	
21	0.22	1.11	1.96	1.98	2.37	1.35	1.24	1.30	0.69	0.48	0.34	0.24	
22	0.21	0.88	1.67	2.29	1.88	1.27	1.23	1.19	0.68	0.48	0.34	0.24	
23	0.22	1.11	1.25	3.81	1.66	1.25	1.89	1.42	0.67	0.47	0.33	0.26	
24	0.26	0.96	1.05	3.73	2.04	1.34	2.32	1.27	0.66	0.47	0.32	0.25	
25	0.61	0.73	1.64	3.20	2.59	1.19	1.88	1.26	0.65	0.46	0.32	0.24	
26	0.35	0.86	2.48	2.98	2.32	1.20	2.01	1.17	0.64	0.45	0.31	0.24	
27	0.28	0.74	2.96	3.92	2.22	2.13	1.89	1.10	0.63	0.44	0.31	0.23	
28	0.27	0.71	2.02	3.06	2.46	1.90	1.74	1.05	0.62	0.44	0.31	0.23	
29	0.24	0.67	1.53	2.40	5.43	1.89	1.50	1.02	0.73	0.43		0.23	
30	0.23	0.61	1.26	1.89	5.93	2.29	1.44	1.06	0.64	0.43		0.22	
31		0.55		1.66	4.97		1.40		0.62	0.43		0.22	
MEAN	0.26	0.52	1.21	2.30	2.27	2.49	1.61	1.30	0.78	0.50	0.37	0.26	
MAX	0.61	1.11	2.96	4.50	5.93	5.27	2.48	2.14	0.99	0.60	0.44	0.32	5.93
MIN	0.20	0.20	0.41	0.93	1.10	1.19	1.23	1.01	0.62	0.43	0.31	0.22	0.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.02 M (A.D), AT 6.00 HOURS, ON AUG 30, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.30 M (A.D)
LEFT BANK ELEVATION 10.60 M (A.D)
RIGHT BANK ELEVATION 11.30 M (A.D), DRAINAGE AREA 312 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.80	2.30	7.80	20.80	32.61	121.10	66.20	28.36	17.75	9.00	5.60	3.65	
2	4.40	2.30	7.80	17.75	30.44	79.00	48.65	27.80	17.75	8.80	5.60	3.50	
3	5.60	2.15	7.00	16.25	30.44	62.65	38.70	24.72	16.75	8.60	5.60	3.80	
4	4.55	2.00	6.20	25.56	26.96	61.60	32.61	24.16	16.25	8.40	5.80	3.65	
5	3.20	2.15	6.40	32.30	21.92	69.40	28.64	21.64	16.50	8.40	5.60	3.50	
6	2.60	3.20	6.60	29.51	21.64	65.40	26.96	21.92	15.50	8.20	5.40	3.50	
7	2.60	2.45	6.00	47.60	20.80	57.75	28.64	28.08	14.25	8.00	5.40	3.35	
8	2.45	2.60	6.20	162.50	42.35	46.90	27.24	49.70	14.50	7.80	5.00	3.20	
9	2.30	4.25	5.20	141.84	37.38	50.40	36.72	53.90	14.25	7.80	4.85	3.20	
10	2.15	3.05	21.64	101.50	30.75	126.10	49.70	38.04	13.50	7.80	4.70	3.20	
11	2.00	3.20	24.44	80.80	40.68	123.10	32.30	29.82	13.00	7.60	4.70	3.05	
12	2.00	4.70	28.92	63.40	39.69	176.80	27.52	28.08	14.75	7.40	5.00	3.05	
13	2.00	4.40	21.92	49.00	44.80	205.20	26.68	27.52	17.75	7.20	4.55	3.05	
14	2.30	6.00	46.20	46.20	31.68	176.25	30.13	22.76	13.50	7.20	4.55	2.90	
15	2.45	4.10	33.85	39.69	27.52	125.60	24.72	20.80	12.60	7.00	4.40	2.90	
16	2.30	3.35	20.80	32.30	34.78	81.25	55.30	19.40	11.80	7.00	4.25	2.90	
17	4.25	4.10	18.28	27.24	59.15	59.15	36.06	18.84	11.60	6.80	4.25	2.90	
18	3.95	10.80	15.75	26.12	127.10	45.50	28.64	18.28	11.60	6.80	4.25	2.75	
19	3.05	11.80	15.00	64.20	112.24	36.39	28.08	23.32	11.40	6.80	4.25	2.75	
20	2.75	17.50	45.85	43.75	94.75	30.75	27.80	46.90	11.20	6.60	4.25	2.75	
21	2.30	21.08	47.60	48.30	61.95	27.80	24.72	26.40	10.80	6.60	4.10	2.60	
22	2.15	15.00	37.71	59.15	44.80	25.56	24.44	23.32	10.60	6.60	4.10	2.60	
23	2.30	21.08	25.00	126.10	37.38	25.00	45.15	29.82	10.40	6.40	3.95	2.90	
24	2.90	17.00	19.40	122.10	50.40	27.52	60.20	25.56	10.20	6.40	3.80	2.75	
25	9.20	11.60	35.72	97.00	70.60	23.32	44.80	25.28	10.00	6.20	3.80	2.60	
26	4.25	14.50	66.20	87.10	60.20	23.60	49.35	22.76	9.80	6.00	3.65	2.60	
27	3.20	11.80	86.20	131.60	56.70	53.55	45.15	20.80	9.60	5.80	3.65	2.45	
28	3.05	11.20	49.70	90.70	65.40	45.50	40.02	19.40	9.40	5.80	3.65	2.45	
29	2.60	10.40	33.23	63.00	214.80	45.15	32.30	18.56	11.60	5.60		2.45	
30	2.45	9.20	25.28	45.15	244.80	59.15	30.44	19.68	9.80	5.60		2.30	
31		8.00		37.38	188.35		29.20		9.40	5.60		2.30	
TOTAL	95.10	247.26	778.89	1975.89	2003.06	2156.44	1127.06	905.62	397.80	219.80	128.70	91.55	10027.15 CMSDAY
MEAN	3.17	7.98	25.96	63.74	64.61	71.88	36.36	26.85	12.83	7.09	4.60	2.95	27.47 CMS
MAX	9.20	21.08	86.20	162.50	244.80	205.20	66.20	53.90	17.75	9.00	5.80	3.80	244.80 CMS
MIN	2.00	2.00	5.20	16.25	20.80	23.32	24.44	18.28	9.40	5.60	3.65	2.30	2.00 CMS
RUNOFF	3.217	21.353	67.296	170.717	173.064	186.316	97.378	69.605	34.370	18.991	11.120	7.910	866.346 MCM

MOMENTARY PEAK 250.20 CMS, AT 6.02 M (A.D), AT 6.00 HOURS, ON AUG 30, 1980
RUNOFF YIELD 88.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 801.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG YAN AT BAN NAM HAK, SURAT THANI (X.92)

LOCATION — LAT. 9°-06'-18" N., LONG. 98°-58'-52" E., ON RIGHT BANK AT BAN NAM HAK, AMPHOE KHIRI RATTHANIKHOM, SURAT THANI.

DRAINAGE AREA — 1,001 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +6.958 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974-1980

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974-1980

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 136 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING MAR.1-31,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

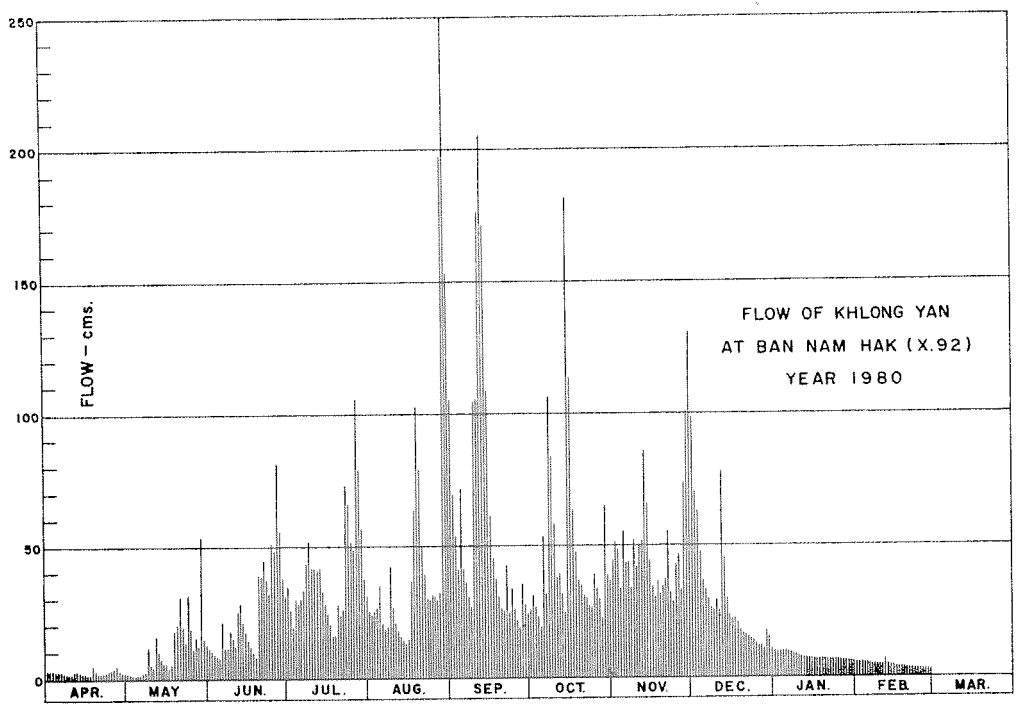
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.83	0.75	1.15	1.63	1.51	2.64	1.47	1.78	2.45	1.10	0.92	*******	
2	0.82	0.75	1.08	1.46	1.40	2.11	1.57	1.90	2.18	1.09	0.92	*******	
3	0.82	0.74	1.07	1.33	1.46	1.91	1.48	1.86	2.07	1.08	1.01	*******	
4	0.80	0.72	1.03	1.55	1.50	1.74	1.40	1.63	1.83	1.08	0.93	*******	
5	0.79	0.72	1.03	1.51	1.64	2.06	1.33	1.95	1.68	1.07	0.92	*******	
6	0.78	0.73	1.37	1.54	1.37	1.75	1.93	1.77	1.62	1.06	0.90	*******	
7	0.77	0.75	1.15	1.61	1.29	1.65	1.58	1.77	1.54	1.06	0.90	*******	
8	0.76	0.77	1.08	1.76	1.34	1.58	2.59	1.63	1.48	1.06	0.89	*******	
9	0.75	1.16	1.31	1.91	1.76	1.49	2.21	1.92	1.45	1.04	0.89	*******	
10	0.74	0.93	1.24	1.76	1.49	2.57	1.99	1.75	1.52	1.01	0.88	*******	
11	0.76	0.84	1.14	1.76	1.37	2.59	1.69	1.89	1.44	0.99	0.88	*******	
12	0.75	1.25	1.44	1.70	1.29	3.45	1.71	1.92	2.26	0.98	0.99	*******	
13	0.75	1.05	1.50	1.76	1.24	3.59	1.56	2.36	1.68	0.98	0.93	*******	
14	0.74	0.96	1.36	1.60	1.20	3.14	1.44	2.11	1.52	0.98	0.89	*******	
15	0.74	0.96	1.30	1.53	1.18	2.63	3.37	1.79	1.43	0.98	0.87	*******	
16	0.73	0.90	1.19	1.43	1.22	2.13	2.51	1.65	1.38	0.98	0.86	*******	
17	0.73	0.83	1.15	1.35	1.59	1.86	2.17	1.56	1.41	0.98	0.86	*******	
18	0.89	0.91	1.08	1.25	1.87	1.70	1.92	1.65	1.37	0.97	0.86	*******	
19	0.81	1.27	1.04	1.26	2.55	1.58	1.67	1.58	1.31	0.97	0.85	*******	
20	0.79	1.18	1.70	1.50	2.34	1.48	1.65	1.64	1.27	0.97	0.84	*******	
21	0.77	1.56	1.71	1.42	2.02	1.45	1.56	1.68	1.25	0.96	0.84	*******	
22	0.76	1.41	1.80	1.46	1.74	1.76	1.54	1.96	1.26	0.96	0.83	*******	
23	0.77	1.18	1.71	2.21	1.57	1.43	1.49	1.57	1.21	0.96	0.83	*******	
24	0.79	1.57	1.60	2.11	1.52	1.62	1.48	1.53	1.19	0.96	0.82	*******	
25	0.81	1.34	1.90	1.93	1.56	1.44	1.85	1.76	1.18	0.95	0.82	*******	
26	0.83	1.12	1.85	1.55	1.57	1.36	1.86	1.83	1.16	0.95	0.82	*******	
27	0.90	1.22	2.31	2.59	1.52	1.32	1.73	1.60	1.15	0.95	0.82	*******	
28	0.82	1.15	1.97	2.29	1.57	1.64	1.60	2.20	1.13	0.95	0.81	*******	
29	0.80	1.94	1.74	1.98	3.76	1.54	2.10	2.51	1.27	0.94		*******	
30	0.77	1.24	1.56	1.73	4.32	1.43	1.71	2.87	1.25	0.94		*******	
31		1.17		1.58	3.07		1.67		1.12	0.94		*******	
MEAN	0.79	1.07	1.42	1.69	1.77	1.95	1.80	1.85	1.49	1.00	0.88	*******	
MAX	0.90	1.94	2.31	2.59	4.32	3.59	3.37	2.87	2.45	1.10	1.01	*******	4.32
MIN	0.73	0.72	1.03	1.25	1.18	1.32	1.33	1.53	1.12	0.94	0.81	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.60 M (A.D), AT 6.00 HOURS, ON AUG 30, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.20 M (A.D)

LEFT BANK ELEVATION 10.31 M (A.D)

RIGHT BANK ELEVATION 8.37 M (A.D), DRAINAGE AREA 1001 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.60	2.10	12.60	34.80	28.50	110.60	26.50	43.80	93.75	10.70	5.54	*******	
2	3.40	2.10	10.10	26.00	23.00	66.25	31.50	51.50	71.50	10.40	5.54	*******	
3	3.40	1.92	9.80	19.85	26.00	52.20	27.00	48.90	63.40	10.10	8.00	*******	
4	3.00	1.56	8.60	30.50	28.00	41.40	23.00	34.80	46.95	10.10	5.81	*******	
5	2.82	1.56	8.60	28.50	35.40	62.70	19.85	55.00	37.80	9.80	5.54	*******	
6	2.64	1.74	21.65	30.00	21.65	42.00	53.60	43.20	34.20	9.50	5.00	*******	
7	2.46	2.10	12.60	33.60	18.10	36.00	32.00	43.20	30.00	9.50	5.00	*******	
8	2.28	2.46	10.10	42.60	20.30	32.00	106.10	34.80	27.00	9.50	4.80	*******	
9	2.10	12.98	18.95	52.20	42.60	27.50	73.80	52.90	25.50	8.90	4.80	*******	
10	1.92	5.81	16.10	42.60	27.50	104.30	57.80	42.00	29.00	8.00	4.60	*******	
11	2.28	3.80	12.22	42.60	21.65	106.10	38.40	50.85	25.00	7.43	4.60	*******	
12	2.10	16.50	25.00	39.00	18.10	190.25	39.60	52.90	77.80	7.16	7.43	*******	
13	2.10	9.20	28.00	42.60	16.10	205.40	31.00	86.10	37.80	7.16	5.81	*******	
14	1.92	6.62	21.20	33.00	14.50	158.50	25.00	66.25	29.00	7.16	4.80	*******	
15	1.92	6.62	18.50	29.50	13.74	109.70	181.85	44.40	24.50	7.16	4.40	*******	
16	1.74	5.00	14.12	24.50	15.30	67.75	98.90	36.00	22.10	7.16	4.20	*******	
17	1.74	3.60	12.60	20.75	32.50	48.90	70.75	31.00	23.50	7.16	4.20	*******	
18	4.80	5.27	10.10	16.50	49.55	39.00	52.90	36.00	21.65	6.89	4.20	*******	
19	3.20	17.30	8.90	16.90	102.50	32.00	37.20	32.00	18.95	6.89	4.00	*******	
20	2.82	13.74	39.00	28.00	84.40	27.00	36.00	35.40	17.30	6.89	3.80	*******	
21	2.46	31.00	39.60	24.00	59.90	25.50	31.00	37.80	16.50	6.62	3.80	*******	
22	2.28	23.50	45.00	26.00	41.40	42.60	30.00	55.70	16.90	6.62	3.60	*******	
23	2.46	13.74	39.60	73.80	31.50	24.50	27.50	31.50	14.90	6.62	3.60	*******	
24	2.82	31.50	33.00	66.25	29.00	34.20	27.00	29.50	14.12	6.62	3.40	*******	
25	3.20	20.30	51.50	53.60	31.00	25.00	48.25	42.60	13.74	6.35	3.40	*******	
26	3.60	11.46	48.25	48.25	31.50	21.20	48.90	46.95	12.98	6.35	3.40	*******	
27	5.00	15.30	81.85	106.10	29.00	19.40	40.80	33.00	12.60	6.35	3.40	*******	
28	3.40	12.60	56.40	80.20	31.50	35.40	33.00	73.00	11.84	6.35	3.20	*******	
29	3.00	54.30	41.40	57.10	224.10	30.00	65.50	98.90	17.30	6.08		*******	
30	2.46	16.10	31.00	40.80	288.30	24.50	39.60	131.65	16.50	6.08		*******	
31		13.36		32.00	151.50		37.20		11.46	6.08		*******	
TOTAL	82.92	365.14	786.34	1242.10	1588.09	1841.85	1491.50	1501.60	915.54	237.68	129.87	*******	******** CMSDAY
MEAN	2.76	11.78	26.21	40.07	51.23	61.39	48.11	50.05	29.53	7.67	4.64	*******	******* CMS
MAX	5.00	54.30	81.85	106.10	288.30	205.40	181.85	131.65	93.75	10.70	8.00	*******	288.30 CMS
MIN	1.74	1.56	8.60	16.50	13.74	19.40	19.85	29.50	11.46	6.08	3.20	*******	******* CMS
RUNOFF	7.164	31.548	67.940	107.317	137.211	159.136	128.865	129.738	79.103	20.536	11.221	*******	******** MCM

MOMENTARY PEAK 321.00 CMS; AT 4.60 M (A.D), AT 6.00 HOURS, ON AUG 30, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 320.68 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG TAN AT WIANG SA, SURAT THANI (X.99)

LOCATION — LAT. 8°-38'-07" N., LONG. 99°-22'-59" E., ON RIGHT BANK UPSTREAM SIDE OF THE BRIDGE NEAR BAN WIANG SA SCHOOL, AMPHOE WIANG SA, SURAT THANI.

DRAINAGE AREA — 105 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK NEAR THE GAGE SITE.

ELEVATION — +6.154 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1975 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1975 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1975 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 135 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

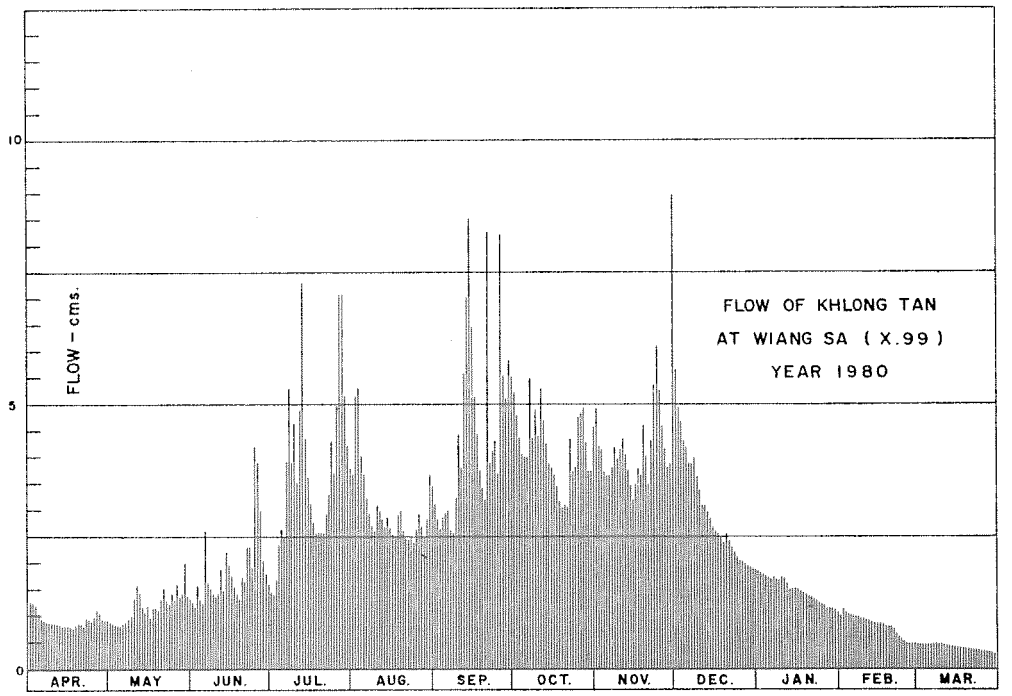
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.56	0.63	0.67	1.04	0.97	1.30	1.23	1.36	0.76	0.59	0.46	
2	0.63	0.55	0.62	0.65	1.26	0.91	1.21	1.13	1.24	0.74	0.61	0.46	
3	0.61	0.55	0.69	0.71	1.29	0.87	1.15	1.11	1.20	0.74	0.59	0.46	
4	0.58	0.54	0.65	0.83	1.11	0.92	1.10	1.06	1.14	0.73	0.59	0.46	
5	0.56	0.54	0.63	0.89	1.05	0.93	1.09	1.04	1.12	0.73	0.59	0.46	
6	0.56	0.55	0.88	0.86	0.98	0.95	1.09	1.03	1.08	0.72	0.59	0.45	
7	0.55	0.55	0.70	1.06	0.95	0.89	1.31	1.06	1.08	0.73	0.58	0.45	
8	0.55	0.56	0.68	1.29	0.90	0.87	1.15	1.12	1.09	0.72	0.58	0.45	
9	0.55	0.58	0.66	1.08	0.89	0.97	1.23	1.09	1.03	0.72	0.57	0.45	
10	0.55	0.64	0.65	1.19	0.96	1.16	1.15	1.13	0.99	0.73	0.56	0.45	
11	0.55	0.69	0.66	1.02	0.95	1.06	1.28	1.15	0.96	0.72	0.56	0.44	
12	0.55	0.67	0.75	1.19	0.92	1.27	1.20	1.09	0.96	0.70	0.56	0.44	
13	0.54	0.61	0.67	1.41	0.89	1.43	1.14	1.07	0.93	0.68	0.56	0.44	
14	0.54	0.59	0.82	1.17	0.92	1.69	1.08	1.02	0.91	0.69	0.56	0.44	
15	0.54	0.61	0.79	1.09	0.89	1.46	1.07	0.98	0.89	0.69	0.55	0.44	
16	0.54	0.57	0.75	0.98	0.87	1.28	1.05	1.02	0.88	0.68	0.55	0.43	
17	0.53	0.60	0.69	0.93	0.86	1.15	1.00	1.07	0.87	0.67	0.55	0.43	
18	0.54	0.61	0.68	0.86	0.92	1.07	0.97	1.04	0.87	0.67	0.54	0.43	
19	0.55	0.60	0.65	0.87	0.94	1.01	0.95	1.19	0.85	0.66	0.54	0.43	
20	0.54	0.64	0.73	0.87	0.87	0.97	0.96	1.09	0.87	0.65	0.54	0.43	
21	0.54	0.68	0.71	0.87	0.86	1.66	0.95	1.02	0.85	0.65	0.52	0.42	
22	0.57	0.64	0.83	0.92	0.84	1.08	1.15	1.14	0.84	0.64	0.51	0.42	
23	0.57	0.62	0.83	0.99	0.87	1.10	1.05	1.22	0.82	0.64	0.50	0.41	
24	0.56	0.66	0.76	1.14	0.83	1.14	1.06	1.39	0.80	0.63	0.48	0.41	
25	0.58	0.64	1.12	1.05	0.88	1.05	1.21	1.28	0.79	0.63	0.48	0.40	
26	0.60	0.70	1.08	1.21	0.93	1.65	1.20	1.17	0.79	0.62	0.47	0.40	
27	0.58	0.66	0.96	1.38	0.91	1.36	1.23	1.11	0.78	0.61	0.47	0.39	
28	0.57	0.65	0.82	1.38	0.86	1.26	1.12	1.06	0.77	0.61	0.47	0.39	
29	0.56	0.78	0.76	1.29	0.91	1.34	1.05	1.07	0.77	0.61		0.38	
30	0.56	0.66	0.71	1.14	1.04	1.35	1.05	1.74	0.76	0.61		0.37	
31		0.65		1.07	1.01		1.18		0.76	0.60		0.37	
MEAN	0.56	0.62	0.75	1.03	0.95	1.16	1.12	1.13	0.94	0.68	0.54	0.43	
MAX	0.63	0.78	1.12	1.41	1.29	1.69	1.31	1.74	1.36	0.76	0.61	0.46	1.74
MIN	0.53	0.54	0.62	0.65	0.83	0.87	0.95	0.98	0.76	0.60	0.47	0.37	0.37

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.47 M (A.D.), AT 6.30 HOURS, ON SEP 21, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — 0.25 M (A.D.)

LEFT BANK ELEVATION — 6.65 M (A.D.)

RIGHT BANK ELEVATION — 6.55 M (A.D.), DRAINAGE AREA — 105 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.25	0.90	1.25	1.45	3.66	3.20	5.40	4.91	5.88	1.90	1.05	0.48	
2	1.25	0.85	1.20	1.35	5.12	2.81	4.77	4.24	4.98	1.80	1.15	0.48	
3	1.15	0.85	1.55	1.65	5.33	2.55	4.37	4.11	4.70	1.80	1.05	0.48	
4	1.00	0.80	1.35	2.29	4.11	2.88	4.05	3.79	4.31	1.75	1.05	0.48	
5	0.90	0.80	1.25	2.68	3.73	2.94	3.98	3.66	4.18	1.75	1.05	0.48	
6	0.90	0.85	2.62	2.49	3.27	3.07	3.98	3.59	3.92	1.70	1.05	0.45	
7	0.85	0.85	1.60	3.79	3.07	2.68	5.48	3.79	3.92	1.75	1.00	0.45	
8	0.85	0.90	1.50	5.33	2.75	2.55	4.37	4.18	3.98	1.70	1.00	0.45	
9	0.85	1.00	1.40	3.92	2.68	3.20	4.91	3.98	3.59	1.70	0.95	0.45	
10	0.85	1.30	1.35	4.63	3.14	4.44	4.37	4.24	3.33	1.75	0.90	0.45	
11	0.85	1.55	1.40	3.53	3.07	3.79	5.26	4.37	3.14	1.70	0.90	0.42	
12	0.85	1.45	1.85	4.63	2.88	5.19	4.70	3.98	3.14	1.60	0.90	0.42	
13	0.80	1.15	1.45	6.28	2.68	6.44	4.31	3.85	2.94	1.50	0.90	0.42	
14	0.80	1.05	2.23	4.50	2.88	8.52	3.92	3.53	2.81	1.55	0.90	0.42	
15	0.80	1.15	2.05	3.98	2.68	6.68	3.85	3.27	2.68	1.55	0.85	0.42	
16	0.80	0.95	1.85	3.27	2.55	5.26	3.73	3.53	2.62	1.50	0.85	0.39	
17	0.75	1.10	1.55	2.94	2.49	4.37	3.40	3.85	2.55	1.45	0.85	0.39	
18	0.80	1.15	1.50	2.49	2.88	3.85	3.20	3.66	2.55	1.45	0.80	0.39	
19	0.85	1.10	1.35	2.55	3.01	3.46	3.07	4.63	2.42	1.40	0.80	0.39	
20	0.80	1.30	1.75	2.55	2.55	3.20	3.14	3.98	2.55	1.35	0.80	0.39	
21	0.80	1.50	1.65	2.55	2.49	8.28	3.07	3.53	2.42	1.35	0.70	0.36	
22	0.95	1.30	2.29	2.88	2.36	3.92	4.37	4.31	2.36	1.30	0.65	0.36	
23	0.95	1.20	2.29	3.33	2.55	4.05	3.73	4.84	2.23	1.30	0.60	0.33	
24	0.90	1.40	1.90	4.31	2.29	4.31	3.79	6.12	2.10	1.25	0.54	0.33	
25	1.00	1.30	4.18	3.73	2.62	3.73	4.77	5.26	2.05	1.25	0.54	0.30	
26	1.10	1.60	3.92	4.77	2.94	8.20	4.70	4.50	2.05	1.20	0.51	0.30	
27	1.00	1.40	3.14	6.04	2.81	5.88	4.91	4.11	2.00	1.15	0.51	0.27	
28	0.95	1.35	2.23	6.04	2.49	5.12	4.18	3.79	1.95	1.15	0.51	0.27	
29	0.90	2.00	1.90	5.33	2.81	5.72	3.73	3.85	1.95	1.15		0.24	
30	0.90	1.40	1.65	4.31	3.66	5.80	3.73	8.96	1.90	1.15		0.21	
31		1.35		3.85	3.46		4.57		1.90	1.10		0.21	
TOTAL	27.40	36.85	57.20	113.44	95.01	136.09	129.81	128.41	93.10	46.00	23.36	11.88	898.55 CMSDAY
MEAN	0.91	1.19	1.91	3.66	3.06	4.54	4.19	4.28	3.00	1.48	0.83	0.38	2.46 CMS
MAX	1.25	2.00	4.18	6.28	5.33	8.52	5.48	8.96	5.88	1.90	1.15	0.48	8.96 CMS
MIN	0.75	0.80	1.20	1.35	2.29	2.55	3.07	3.27	1.90	1.10	0.51	0.21	0.21 CMS
RUNOFF	2.367	3.184	4.942	9.801	8.209	11.758	11.216	11.095	8.044	3.974	2.018	1.026	77.635 MCM

MOMENTARY PEAK 16.37 CMS, AT 2.47 M (A.D), AT 6.00 HOURS, ON SEP 21, 1980
RUNOFF YIELD 23.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 155.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG TAKHIAN AT BAN RIM KHLONG, SURAT THANI (X.103)

LOCATION — LAT. 9°-25'-31" N., LONG. 99°-09'-44" E., ON RIGHT BANK AT BAN RIM KHLONG, AMPHOE CHAIYA, SURAT THANI.

DRAINAGE AREA — 180 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ON LEFT BANK ABOUT 15 METERS SOUTH FROM THE OBSERVER'S HOUSE.

ELEVATION — +6.915 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 157 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING FEB.1-MAR.31,1981.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

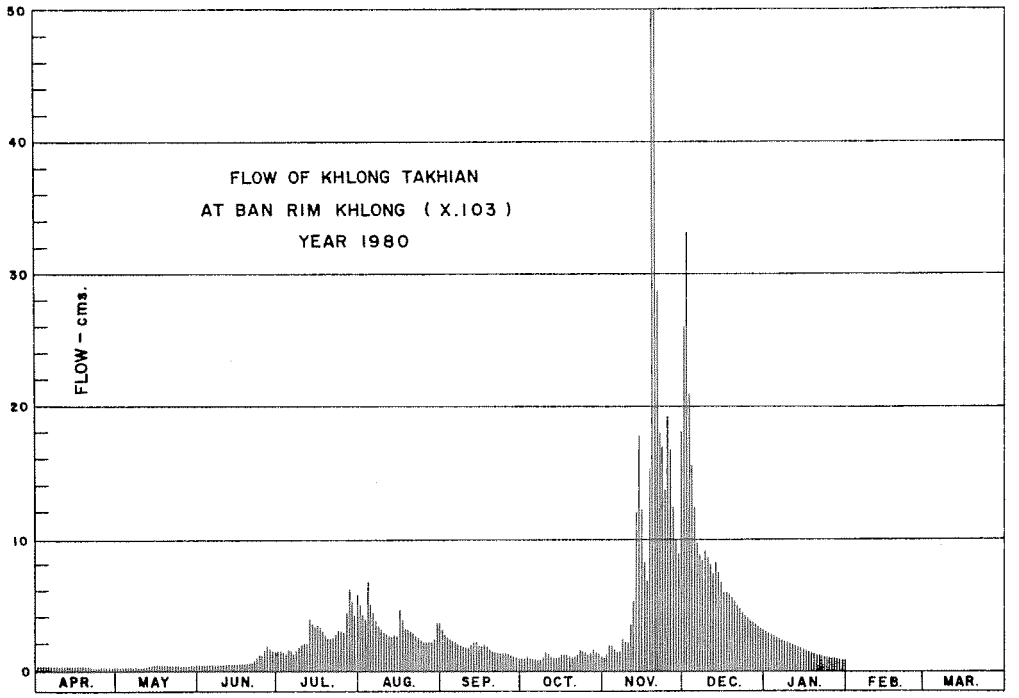
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.11	0.09	0.23	0.55	1.23	0.88	0.42	0.42	2.91	0.87	*******	*******	
2	0.11	0.09	0.20	0.56	1.07	0.82	0.42	0.55	3.31	0.85	*******	*******	
3	0.11	0.08	0.18	0.53	1.02	0.77	0.43	0.64	2.69	0.83	*******	*******	
4	0.11	0.08	0.21	0.50	1.42	0.73	0.41	0.62	2.25	0.80	*******	*******	
5	0.10	0.07	0.21	0.57	1.32	0.72	0.42	0.57	1.95	0.78	*******	*******	
6	0.10	0.07	0.21	0.57	1.11	0.70	0.41	0.54	1.79	0.76	*******	*******	
7	0.10	0.07	0.19	0.49	0.99	0.67	0.39	0.55	1.68	0.74	*******	*******	
8	0.10	0.07	0.19	0.53	0.92	0.64	0.39	0.75	1.64	0.72	*******	*******	
9	0.10	0.07	0.17	0.63	0.88	0.62	0.42	0.69	1.71	0.69	*******	*******	
10	0.10	0.07	0.18	0.66	0.84	0.61	0.50	0.68	1.65	0.67	*******	*******	
11	0.09	0.01	0.20	0.68	0.81	0.62	0.50	0.98	1.61	0.65	*******	*******	
12	0.09	0.14	0.21	0.67	0.78	0.63	0.46	1.26	1.50	0.63	*******	*******	
13	0.09	0.15	0.23	1.01	0.76	0.69	0.43	1.90	1.62	0.62	*******	*******	
14	0.09	0.20	0.24	0.98	0.80	0.71	0.41	2.47	1.47	0.61	*******	*******	
15	0.09	0.17	0.24	0.92	0.79	0.66	0.43	1.98	1.38	0.59	*******	*******	
16	0.08	0.21	0.25	0.96	1.14	0.62	0.48	1.59	1.32	0.57	*******	*******	
17	0.10	0.16	0.23	0.93	1.00	0.65	0.48	1.43	1.34	0.56	*******	*******	
18	0.11	0.16	0.23	0.84	0.89	0.60	0.49	1.51	1.31	0.54	*******	*******	
19	0.11	0.15	0.24	0.78	0.86	0.57	0.47	4.34	1.28	0.52	*******	*******	
20	0.09	0.16	0.25	0.75	0.83	0.54	0.43	4.05	1.22	0.51	*******	*******	
21	0.10	0.17	0.25	0.75	0.82	0.53	0.43	3.07	1.17	0.50	*******	*******	
22	0.03	0.16	0.28	0.75	0.79	0.51	0.49	2.50	1.16	0.50	*******	*******	
23	0.07	0.18	0.39	0.80	0.74	0.49	0.55	2.42	1.12	0.49	*******	*******	
24	0.08	0.17	0.45	0.86	0.71	0.50	0.52	2.16	1.08	0.47	*******	*******	
25	0.08	0.17	0.46	0.86	0.69	0.50	0.52	2.57	1.04	0.46	*******	*******	
26	0.11	0.16	0.56	0.83	0.67	0.48	0.48	2.40	1.01	0.44	*******	*******	
27	0.13	0.16	0.62	1.21	0.69	0.46	0.52	1.98	0.98	0.43	*******	*******	
28	0.11	0.15	0.59	1.34	0.69	0.45	0.55	1.78	0.95	0.42	*******	*******	
29	0.10	0.19	0.56	1.19	0.73	0.44	0.51	1.69	0.93	0.40		*******	
30	0.10	0.21	0.54	1.08	0.97	0.43	0.46	2.11	0.92	0.39		*******	
31		0.22		1.29	0.97		0.44		0.89	0.38		*******	
MEAN	0.10	0.14	0.30	0.81	0.90	0.61	0.46	1.67	1.51	0.59	*******	*******	
MAX	0.13	0.22	0.62	1.34	1.42	0.88	0.55	4.34	3.31	0.87	*******	*******	4.34
MIN	0.03	0.01	0.17	0.49	0.67	0.43	0.39	0.42	0.89	0.38	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.66 M (A.D.), AT 18.00 HOURS, ON NOV 19, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.40 M (A.D.)

LEFT BANK ELEVATION 8.69 M (A.D.)

RIGHT BANK ELEVATION 8.69 M (A.D.), DRAINAGE AREA 180 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.18	0.46	1.50	5.31	3.10	0.98	0.98	24.89	3.05	*******	*******	
2	0.22	0.18	0.40	1.54	4.22	2.80	0.98	1.50	33.13	2.95	*******	*******	
3	0.22	0.16	0.36	1.42	3.92	2.55	1.02	1.90	21.14	2.85	*******	*******	
4	0.22	0.16	0.42	1.30	6.66	2.35	0.94	1.80	14.80	2.70	*******	*******	
5	0.20	0.14	0.42	1.58	5.94	2.30	0.98	1.58	11.35	2.60	*******	*******	
6	0.20	0.14	0.42	1.58	4.47	2.20	0.94	1.46	9.81	2.50	*******	*******	
7	0.20	0.14	0.38	1.26	3.74	2.05	0.87	1.50	8.82	2.40	*******	*******	
8	0.20	0.14	0.38	1.42	3.32	1.90	0.87	2.45	8.46	2.30	*******	*******	
9	0.20	0.14	0.34	1.85	3.10	1.80	0.98	2.15	9.09	2.15	*******	*******	
10	0.20	0.14	0.36	2.00	2.90	1.75	1.30	2.10	8.55	2.05	*******	*******	
11	0.18	0.02	0.40	2.10	2.75	1.80	1.30	3.68	8.19	1.95	*******	*******	
12	0.18	0.28	0.42	2.05	2.60	1.85	1.14	5.52	7.30	1.85	*******	*******	
13	0.18	0.30	0.46	3.86	2.50	2.15	1.02	10.80	8.28	1.80	*******	*******	
14	0.18	0.40	0.48	3.68	2.70	2.25	0.94	17.78	7.06	1.75	*******	*******	
15	0.18	0.34	0.48	3.32	2.65	2.00	1.02	11.68	6.36	1.66	*******	*******	
16	0.16	0.42	0.50	3.56	4.68	1.80	1.22	8.02	5.94	1.58	*******	*******	
17	0.20	0.32	0.46	3.38	3.80	1.95	1.22	6.74	6.08	1.54	*******	*******	
18	0.22	0.32	0.46	2.90	3.15	1.70	1.26	7.38	5.87	1.46	*******	*******	
19	0.22	0.30	0.48	2.60	3.00	1.58	1.18	60.26	5.66	1.38	*******	*******	
20	0.18	0.32	0.50	2.45	2.85	1.46	1.02	52.00	5.24	1.34	*******	*******	
21	0.20	0.34	0.50	2.45	2.80	1.42	1.02	28.00	4.89	1.30	*******	*******	
22	0.06	0.32	0.56	2.45	2.65	1.34	1.26	18.20	4.82	1.30	*******	*******	
23	0.14	0.36	0.87	2.70	2.40	1.26	1.50	17.08	4.54	1.26	*******	*******	
24	0.16	0.34	1.10	3.00	2.25	1.30	1.38	13.72	4.28	1.18	*******	*******	
25	0.16	0.34	1.14	3.00	2.15	1.30	1.38	19.25	4.04	1.14	*******	*******	
26	0.22	0.32	1.54	2.85	2.05	1.22	1.22	16.80	3.86	1.06	*******	*******	
27	0.26	0.32	1.80	5.17	2.15	1.14	1.38	11.68	3.68	1.02	*******	*******	
28	0.22	0.30	1.66	6.08	2.15	1.10	1.50	9.72	3.50	0.98	*******	*******	
29	0.20	0.38	1.54	5.03	2.35	1.06	1.34	8.91	3.38	0.90		*******	
30	0.20	0.42	1.46	4.28	3.62	1.02	1.14	13.12	3.32	0.87		*******	
31		0.44		5.73	3.62		1.06		3.15	0.84		*******	
TOTAL	5.78	8.42	20.75	88.09	102.45	53.50	35.36	357.76	259.48	53.71	*******	*******	******** CMSDAY
MEAN	0.19	0.27	0.69	2.84	3.30	1.78	1.14	11.93	8.37	1.73	*******	*******	******* CMS
MAX	0.26	0.44	1.80	6.08	6.66	3.10	1.50	60.26	33.13	3.05	*******	*******	60.26 CMS
MIN	0.06	0.02	0.34	1.26	2.05	1.02	0.87	0.98	3.15	0.84	*******	*******	******* CMS
RUNOFF	0.499	0.727	1.793	7.611	8.852	4.622	3.055	30.910	22.419	4.641	*******	*******	******** MCM

MOMENTARY PEAK 69.80 CMS, AT 4.66 M (A.D), AT 18.00 HOURS, ON NOV 19, 1980

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 387.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG THA KRACHAI AT BAN SAMO THONG, SURAT THANI (X.104)

LOCATION — LAT. 9°-34'-47" N., LONG. 99°-08'-14" E., ON LEFT BANK AT BAN SAMO THONG, AMPHOE THA CHANA, SURAT THANI.

DRAINAGE AREA — 354 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 21 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +8.574 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

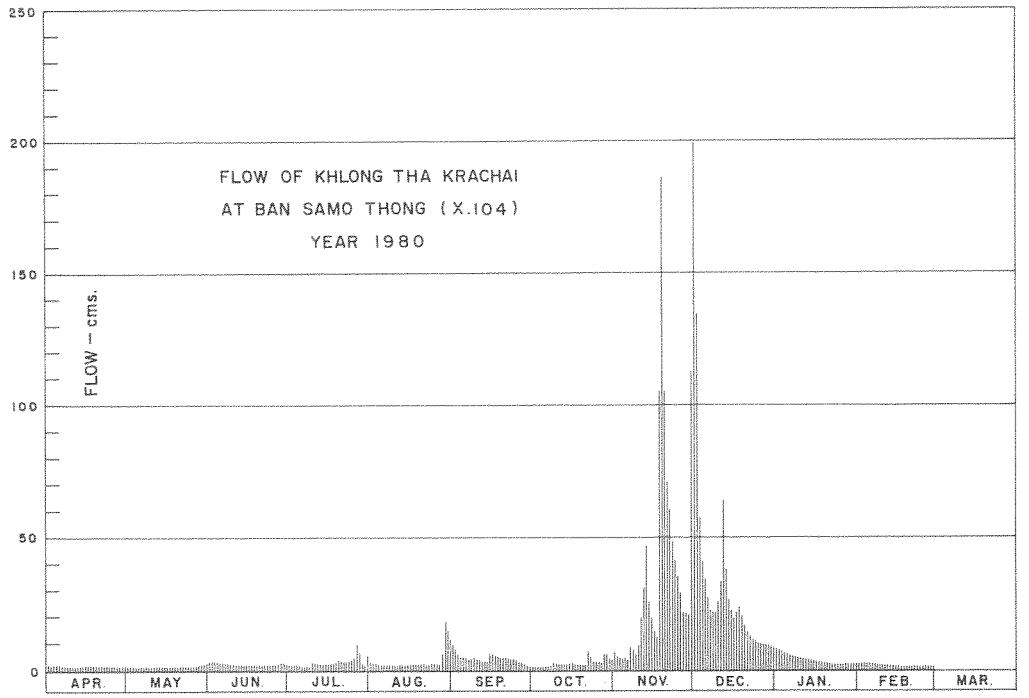
GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING MAR.1-31,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.59	0.76	0.70	0.80	1.14	0.63	1.04	4.57	1.11	0.70	*******	
2	0.65	0.59	0.77	0.70	0.82	1.10	0.62	0.97	3.68	1.08	0.70	*******	
3	0.65	0.59	0.70	0.69	0.85	1.00	0.61	0.94	2.55	1.06	0.70	*******	
4	0.64	0.58	0.80	0.69	0.79	0.97	0.61	0.91	2.15	1.04	0.70	*******	
5	0.64	0.58	0.80	0.68	0.78	0.95	0.61	0.98	1.95	1.02	0.70	*******	
6	0.64	0.58	0.77	0.68	0.77	0.94	0.60	0.89	1.75	0.99	0.70	*******	
7	0.61	0.58	0.76	0.67	0.76	0.93	0.60	1.18	1.64	0.97	0.69	*******	
8	0.61	0.58	0.76	0.66	0.75	0.92	0.65	1.08	1.60	0.96	0.69	*******	
9	0.61	0.58	0.74	0.65	0.75	0.96	0.80	1.03	1.62	0.95	0.69	*******	
10	0.60	0.57	0.72	0.81	0.75	0.90	0.77	1.22	1.75	0.94	0.69	*******	
11	0.60	0.57	0.72	0.79	0.75	0.88	0.75	1.46	1.84	0.94	0.69	*******	
12	0.60	0.57	0.70	0.78	0.74	0.87	0.73	1.83	2.60	0.93	0.68	*******	
13	0.60	0.57	0.70	0.77	0.73	0.86	0.72	2.25	2.11	0.91	0.68	*******	
14	0.65	0.57	0.68	0.76	0.73	0.85	0.71	1.79	1.75	0.88	0.67	*******	
15	0.64	0.57	0.67	0.75	0.72	1.02	0.83	1.55	1.63	0.86	0.66	*******	
16	0.64	0.58	0.66	0.74	0.72	1.00	0.81	1.41	1.55	0.85	0.65	*******	
17	0.64	0.59	0.65	0.76	0.71	0.97	0.84	1.30	1.61	0.84	0.65	*******	
18	0.63	0.59	0.65	0.80	0.71	0.95	0.70	3.61	1.65	0.84	0.65	*******	
19	0.63	0.59	0.64	0.83	0.70	0.94	0.68	4.43	1.50	0.83	0.65	*******	
20	0.63	0.59	0.70	0.86	0.70	0.93	0.65	2.91	1.40	0.80	0.64	*******	
21	0.62	0.60	0.72	0.85	0.75	0.92	0.70	2.43	1.32	0.78	0.64	*******	
22	0.62	0.60	0.72	0.87	0.74	0.91	1.07	2.56	1.29	0.77	0.64	*******	
23	0.62	0.61	0.71	0.85	0.73	0.90	0.96	2.32	1.26	0.76	0.64	*******	
24	0.61	0.61	0.70	0.83	0.71	0.88	0.84	2.02	1.25	0.75	0.64	*******	
25	0.61	0.62	0.70	0.90	0.70	0.84	0.81	1.99	1.23	0.74	0.64	*******	
26	0.60	0.64	0.72	0.91	0.70	0.71	0.80	1.75	1.22	0.73	0.63	*******	
27	0.59	0.65	0.79	1.14	0.69	0.61	0.82	1.62	1.20	0.72	0.63	*******	
28	0.59	0.67	0.80	1.04	0.80	0.60	1.01	1.57	1.18	0.71	0.62	*******	
29	0.59	0.79	0.76	0.76	1.21	0.61	1.01	1.57	1.17	0.70		*******	
30	0.59	0.76	0.71	0.63	1.48	0.63	0.87	2.66	1.15	0.70		*******	
31		0.75		1.00	1.27		0.86		1.13	0.70		*******	
MEAN	0.62	0.61	0.72	0.79	0.80	0.89	0.76	1.78	1.75	0.87	0.67	*******	
MAX	0.65	0.79	0.80	1.14	1.48	1.14	1.07	4.43	4.57	1.11	0.70	*******	4.57
MIN	0.59	0.57	0.64	0.63	0.69	0.60	0.60	0.89	1.13	0.70	0.62	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.40 M (A.D), AT 21.00 HOURS, ON NOV 18, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.05 M (A.D)
LEFT BANK ELEVATION 10.81 M (A.D)
RIGHT BANK ELEVATION 10.31 M (A.D), DRAINAGE AREA 354 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	0.98	2.60	2.00	3.00	9.10	1.30	7.10	199.07	8.50	2.00	*******	
2	1.50	0.98	2.70	2.00	3.26	8.30	1.20	5.70	127.72	7.90	2.00	*******	
3	1.50	0.98	2.00	1.90	3.65	6.30	1.10	5.10	61.50	7.50	2.00	*******	
4	1.40	0.96	3.00	1.90	2.90	5.70	1.10	4.50	42.75	7.10	2.00	*******	
5	1.40	0.96	3.00	1.80	2.80	5.30	1.10	5.90	34.20	6.70	2.00	*******	
6	1.40	0.96	2.70	1.80	2.70	5.10	1.00	4.17	26.75	6.10	2.00	*******	
7	1.10	0.96	2.60	1.70	2.60	4.90	1.00	9.90	23.20	5.70	1.90	*******	
8	1.10	0.96	2.60	1.60	2.50	4.70	1.50	7.90	22.00	5.50	1.90	*******	
9	1.10	0.96	2.40	1.50	2.50	5.50	3.00	6.90	22.60	5.30	1.90	*******	
10	1.00	0.94	2.20	3.13	2.50	4.30	2.70	10.84	26.75	5.10	1.90	*******	
11	1.00	0.94	2.20	2.90	2.50	4.04	2.50	17.80	29.98	5.10	1.90	*******	
12	1.00	0.94	2.00	2.80	2.40	3.91	2.30	29.61	64.00	4.90	1.80	*******	
13	1.00	0.94	2.00	2.70	2.30	3.78	2.20	47.25	40.95	4.50	1.80	*******	
14	1.50	0.94	1.80	2.60	2.30	3.65	2.10	28.15	26.75	4.04	1.70	*******	
15	1.40	0.94	1.70	2.50	2.20	6.70	3.39	20.50	22.90	3.78	1.60	*******	
16	1.40	0.96	1.60	2.40	2.20	6.30	3.13	16.30	20.50	3.65	1.50	*******	
17	1.40	0.98	1.50	2.60	2.10	5.70	3.52	13.00	22.30	3.52	1.50	*******	
18	1.30	0.98	1.50	3.00	2.10	5.30	2.00	123.24	23.50	3.52	1.50	*******	
19	1.30	0.98	1.40	3.39	2.00	5.10	1.80	186.61	19.00	3.39	1.50	*******	
20	1.30	0.98	2.00	3.78	2.00	4.90	1.50	80.55	16.00	3.00	1.40	*******	
21	1.20	1.00	2.20	3.65	2.50	4.70	2.00	55.50	13.60	2.80	1.40	*******	
22	1.20	1.00	2.20	3.91	2.40	4.50	7.70	62.00	12.73	2.70	1.40	*******	
23	1.20	1.10	2.10	3.65	2.30	4.30	5.50	50.40	11.92	2.60	1.40	*******	
24	1.10	1.10	2.00	3.39	2.10	4.04	3.52	37.06	11.65	2.50	1.40	*******	
25	1.10	1.20	2.00	4.30	2.00	3.52	3.13	35.80	11.11	2.40	1.40	*******	
26	1.00	1.40	2.20	4.50	2.00	2.10	3.00	26.75	10.84	2.30	1.30	*******	
27	0.98	1.50	2.90	9.10	1.90	1.10	3.26	22.60	10.30	2.20	1.30	*******	
28	0.98	1.70	3.00	7.10	3.00	1.00	6.50	21.10	9.90	2.10	1.20	*******	
29	0.98	2.90	2.60	2.60	10.57	1.10	6.50	21.10	9.70	2.00		*******	
30	0.98	2.60	2.10	1.30	18.40	1.30	3.91	67.00	9.30	2.00		*******	
31		2.50		6.30	12.19		3.78		8.90	2.00		*******	
TOTAL	36.32	37.22	66.80	97.80	109.87	136.24	88.24	1030.33	992.37	130.40	46.60	*******	******** CMSDAY
MEAN	1.21	1.20	2.23	3.15	3.54	4.54	2.85	34.34	32.01	4.21	1.66	*******	******* CMS
MAX	1.50	2.90	3.00	9.10	18.40	9.10	7.70	186.61	199.07	8.50	2.00	*******	199.07 CMS
MIN	0.98	0.94	1.40	1.30	1.90	1.00	1.00	4.17	8.90	2.00	1.20	*******	******* CMS
RUNOFF	3.138	3.216	5.772	8.450	9.493	11.771	7.624	89.020	85.741	11.267	4.026	*******	******** MCM

MOMENTARY PEAK 280.00 CMS, AT 5.40 M (A.D), AT 21.00 HOURS, ON NOV 18, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 790.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG CHAIYA AT BAN MUANG, SURAT THANI (X.106)

LOCATION — LAT. 9°-23'-46" N., LONG. 99°-10'-31" E., ON LEFT BANK AT BAN MUANG, AMPHOE CHAIYA, SURAT THANI.

DRAINAGE AREA — 309 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 20 METERS FROM THE ABUTMENT.

ELEVATION — +3.505 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

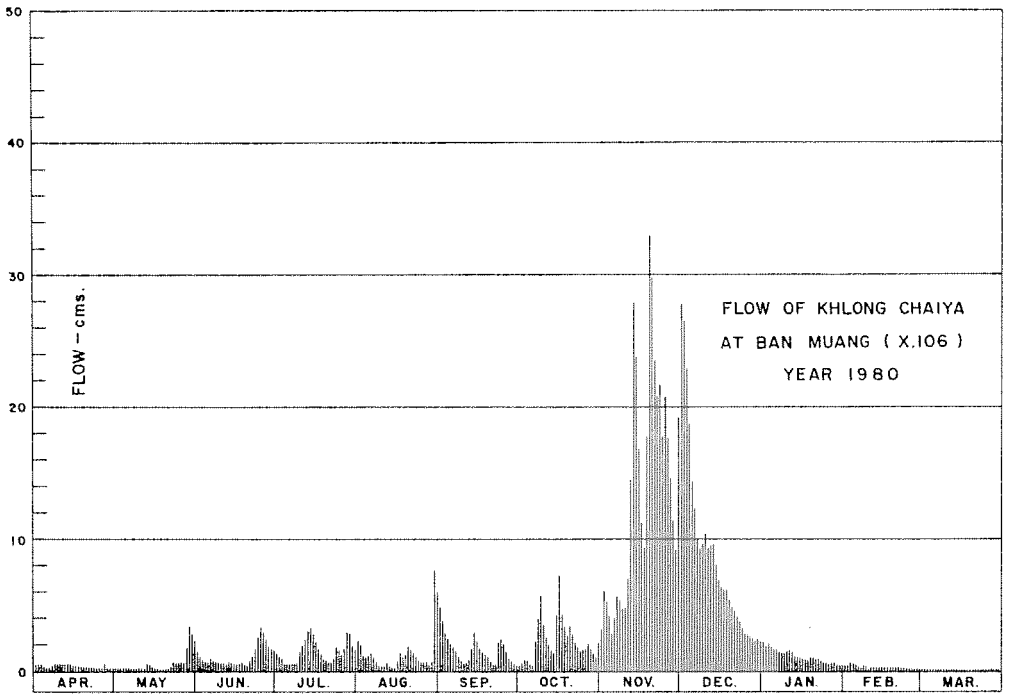
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.28	0.55	0.55	0.70	0.99	0.37	0.85	2.76	0.71	0.36	0.22	
2	0.37	0.28	0.50	0.50	0.65	0.94	0.42	1.15	2.68	0.66	0.38	0.19	
3	0.35	0.27	0.45	0.50	0.50	0.81	0.48	1.10	2.44	0.68	0.43	0.17	
4	0.32	0.27	0.40	0.40	0.51	0.73	0.48	0.94	2.16	0.65	0.44	0.16	
5	0.29	0.27	0.40	0.42	0.52	0.67	0.34	0.82	1.88	0.61	0.39	0.17	
6	0.31	0.26	0.49	0.40	0.55	0.64	0.37	0.93	1.72	0.60	0.33	0.21	
7	0.39	0.26	0.44	0.40	0.51	0.60	0.65	1.10	1.58	0.58	0.29	0.20	
8	0.38	0.26	0.40	0.40	0.40	0.53	0.98	1.08	1.49	0.57	0.34	0.19	
9	0.38	0.26	0.40	0.40	0.34	0.43	1.11	1.01	1.52	0.56	0.39	0.16	
10	0.38	0.27	0.40	0.59	0.33	0.38	0.86	1.03	1.56	0.60	0.27	0.16	
11	0.39	0.25	0.40	0.65	0.33	0.37	0.73	1.24	1.46	0.60	0.33	0.16	
12	0.38	0.27	0.39	0.72	0.40	0.46	0.64	1.87	1.49	0.57	0.33	0.21	
13	0.37	0.27	0.46	0.82	0.33	0.68	0.59	2.75	1.49	0.53	0.33	0.22	
14	0.37	0.39	0.42	0.84	0.32	0.79	0.58	2.42	1.34	0.51	0.34	0.21	
15	0.35	0.37	0.38	0.77	0.30	0.69	1.03	1.95	1.25	0.50	0.33	0.19	
16	0.33	0.34	0.40	0.70	0.40	0.59	1.15	1.66	1.17	0.48	0.34	0.21	
17	0.34	0.28	0.40	0.65	0.58	0.59	0.97	1.48	1.15	0.48	0.32	0.21	
18	0.34	0.25	0.40	0.53	0.51	0.54	0.88	1.75	1.16	0.46	0.31	0.21	
19	0.33	0.23	0.37	0.45	0.56	0.49	0.78	3.05	1.08	0.51	0.34	0.20	
20	0.32	0.26	0.38	0.45	0.67	0.40	0.86	2.88	1.01	0.48	0.34	0.19	
21	0.31	0.27	0.45	0.40	0.63	0.37	0.80	2.51	0.99	0.48	0.29	0.16	
22	0.31	0.25	0.53	0.41	0.60	0.36	0.72	2.33	0.96	0.48	0.29	0.14	
23	0.31	0.40	0.65	0.49	0.51	0.72	0.62	2.38	0.91	0.44	0.31	0.14	
24	0.25	0.38	0.80	0.64	0.49	0.73	0.59	2.13	0.86	0.43	0.27	0.14	
25	0.20	0.40	0.85	0.61	0.42	0.67	0.60	2.32	0.78	0.40	0.22	0.13	
26	0.28	0.40	0.82	0.53	0.42	0.57	0.62	2.01	0.76	0.39	0.23	0.13	
27	0.38	0.38	0.72	0.63	0.43	0.49	0.68	1.75	0.76	0.43	0.22	0.13	
28	0.29	0.64	0.64	0.80	0.36	0.46	0.60	1.56	0.73	0.43	0.22	0.13	
29	0.29	0.85	0.60	0.79	0.43	0.44	0.55	1.45	0.72	0.38		0.11	
30	0.29	0.80	0.60	0.65	1.29	0.39	0.53	1.88	0.75	0.37		0.01	
31		0.70		0.60	1.18		0.74		0.71	0.36		0.02	
MEAN	0.33	0.36	0.50	0.57	0.52	0.58	0.69	1.71	1.33	0.51	0.32	0.16	
MAX	0.39	0.85	0.85	0.84	1.29	0.99	1.15	3.05	2.76	0.71	0.44	0.22	3.05
MIN	0.20	0.23	0.37	0.40	0.30	0.36	0.34	0.82	0.71	0.36	0.22	0.01	0.01

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.14 M (A.D.), AT 6.00 HOURS, ON NOV 19, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — M (A.D.)

LEFT BANK ELEVATION — 4.81 M (A.D.)

RIGHT BANK ELEVATION — 4.87 M (A.D.), DRAINAGE AREA — 309 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.16	1.30	1.30	2.20	4.58	0.48	3.30	27.82	2.27	0.44	0.04	
2	0.48	0.16	1.00	1.00	1.90	4.09	0.68	6.14	26.48	1.96	0.52	0.00	
3	0.40	0.14	0.80	1.00	1.00	2.90	0.92	5.65	22.64	2.08	0.72	0.00	
4	0.28	0.14	0.60	0.60	1.06	2.41	0.92	4.09	18.30	1.90	0.76	0.00	
5	0.18	0.14	0.60	0.68	1.12	2.02	0.36	3.06	14.34	1.66	0.56	0.00	
6	0.24	0.12	0.96	0.60	1.30	1.84	0.48	3.99	12.34	1.60	0.32	0.02	
7	0.56	0.12	0.76	0.60	1.06	1.60	1.90	5.65	10.66	1.48	0.18	0.00	
8	0.52	0.12	0.60	0.60	0.60	1.18	4.48	5.45	9.59	1.42	0.36	0.00	
9	0.52	0.12	0.60	0.60	0.36	0.72	5.75	4.77	9.94	1.36	0.56	0.00	
10	0.52	0.14	0.60	1.54	0.32	0.52	3.38	4.97	10.42	1.60	0.14	0.00	
11	0.56	0.10	0.60	1.90	0.32	0.48	2.41	7.01	9.76	1.60	0.32	0.00	
12	0.52	0.14	0.56	2.34	0.60	0.84	1.84	14.21	9.59	1.42	0.32	0.02	
13	0.48	0.14	0.84	3.06	0.32	2.08	1.54	27.65	9.59	1.18	0.32	0.04	
14	0.48	0.56	0.68	3.22	0.28	2.83	1.48	22.32	8.00	1.06	0.36	0.02	
15	0.40	0.48	0.52	2.69	0.20	2.14	4.97	15.30	7.11	1.00	0.32	0.00	
16	0.32	0.36	0.60	2.20	0.60	1.54	6.14	11.62	6.33	0.92	0.36	0.02	
17	0.36	0.16	0.60	1.90	1.48	1.54	4.38	9.48	6.14	0.92	0.28	0.02	
18	0.36	0.10	0.60	1.18	1.06	1.24	3.54	12.70	6.23	0.84	0.24	0.02	
19	0.32	0.06	0.48	0.80	1.36	0.96	2.76	33.00	5.45	1.06	0.36	0.00	
20	0.28	0.12	0.52	0.80	2.02	0.60	3.38	29.94	4.77	0.92	0.36	0.00	
21	0.24	0.14	0.80	0.60	1.78	0.48	2.90	23.76	4.58	0.92	0.18	0.00	
22	0.24	0.10	1.18	0.64	1.60	0.44	2.34	20.88	4.28	0.92	0.18	0.00	
23	0.24	0.60	1.90	0.96	1.06	2.34	1.72	21.68	3.80	0.76	0.24	0.00	
24	0.10	0.52	2.90	1.84	0.96	2.41	1.54	17.85	3.38	0.72	0.14	0.00	
25	0.00	0.60	3.30	1.66	0.68	2.02	1.60	20.72	2.76	0.60	0.04	0.00	
26	0.16	0.60	3.06	1.18	0.68	1.42	1.72	16.14	2.62	0.56	0.06	0.00	
27	0.52	0.52	2.34	1.78	0.72	0.96	2.08	12.70	2.62	0.72	0.04	0.00	
28	0.18	1.84	1.84	2.90	0.44	0.84	1.60	10.42	2.41	0.72	0.04	0.00	
29	0.18	3.30	1.60	2.83	0.72	0.76	1.30	9.15	2.34	0.52		0.00	
30	0.18	2.90	1.60	1.90	7.50	0.56	1.18	14.34	2.55	0.48		0.00	
31		2.20		1.60	6.43		2.48		2.27	0.44		0.00	
TOTAL	10.22	16.90	34.34	46.50	41.73	48.42	72.25	397.94	268.61	35.61	8.72	0.20	981.44 CMSDAY
MEAN	0.34	0.55	1.14	1.50	1.35	1.61	2.33	13.26	8.66	1.15	0.31	0.01	2.69 CMS
MAX	0.56	3.30	3.30	3.22	7.50	4.58	6.14	33.00	27.82	2.27	0.76	0.04	33.00 CMS
MIN	0.00	0.06	0.48	0.60	0.20	0.44	0.36	3.06	2.27	0.44	0.04	0.00	0.00 CMS
RUNOFF	0.883	1.460	2.967	4.018	3.605	4.183	6.242	34.382	23.208	3.077	0.753	0.017	84.796 MCM

MOMENTARY PEAK 34.62 CMS, AT 3.14 M (A.D), AT 6.00 HOURS, ON NOV 19, 1980

RUNOFF YIELD 8.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 112.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG THA DI AT BAN PAK PRIK, NAKHON SI THAMMARAT (X.55)

LOCATION — LAT. 8°-23'-53" N., LONG. 99°-50'-15" E., ON LEFT BANK ABOUT 450 METERS DOWNSTREAM FROM THE BRIDGE OF KARAM ROAD AT BAN PAK PRIK, AMPHOE LAN SAKA, NAKHON SI THAMMARAT.

DRAINAGE AREA — 105 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — B.M.1 NEAR THE GAGE SITE, B.M.2 ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — B.M.1 =+3.798 M. (A.D.), B.M.2 =+6.706 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1971

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +3.89 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 541 DISCHARGE MEASUREMENTS MADE DURING 1967-1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

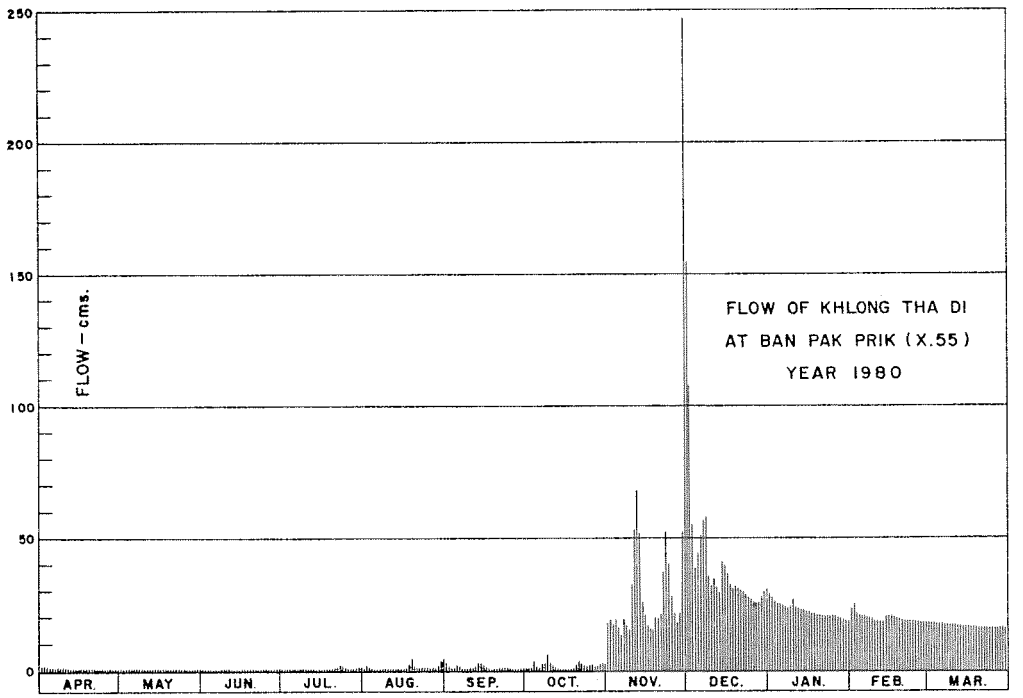
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.12	0.15	0.16	0.19	0.42	0.26	1.34	4.19	1.79	1.63	1.36	
2	0.25	0.12	0.14	0.16	0.37	0.34	0.27	1.37	3.05	1.79	1.65	1.35	
3	0.24	0.12	0.14	0.15	0.21	0.25	0.23	1.32	2.64	1.71	1.55	1.35	
4	0.30	0.11	0.13	0.17	0.23	0.26	0.47	1.42	2.20	1.66	1.50	1.35	
5	0.22	0.11	0.13	0.13	0.20	0.44	0.37	1.33	2.41	1.64	1.48	1.35	
6	0.21	0.11	0.12	0.13	0.18	0.35	0.28	1.10	2.61	1.62	1.47	1.34	
7	0.20	0.10	0.16	0.13	0.23	0.30	0.44	1.17	2.85	1.61	1.45	1.34	
8	0.19	0.11	0.15	0.12	0.19	0.22	0.32	1.39	2.88	1.60	1.44	1.34	
9	0.19	0.20	0.14	0.12	0.17	0.19	0.72	1.21	2.01	1.64	1.43	1.33	
10	0.18	0.13	0.14	0.14	0.19	0.34	0.43	1.84	1.96	1.74	1.42	1.32	
11	0.18	0.11	0.13	0.21	0.23	0.29	0.39	2.78	2.05	1.62	1.42	1.32	
12	0.18	0.11	0.13	0.23	0.17	0.41	0.27	3.21	1.91	1.59	1.42	1.32	
13	0.17	0.10	0.13	0.27	0.16	0.49	0.19	2.30	1.88	1.57	1.41	1.31	
14	0.17	0.19	0.12	0.25	0.16	0.49	0.18	1.72	2.23	1.56	1.50	1.31	
15	0.16	0.14	0.12	0.23	0.15	0.33	0.26	1.45	2.26	1.55	1.48	1.31	
16	0.16	0.13	0.11	0.18	0.15	0.24	0.28	1.31	2.10	1.54	1.47	1.31	
17	0.18	0.12	0.11	0.17	0.21	0.23	0.27	1.26	1.98	1.52	1.45	1.30	
18	0.19	0.20	0.11	0.16	0.43	0.24	0.21	1.24	1.92	1.51	1.44	1.30	
19	0.16	0.13	0.10	0.19	0.56	0.22	0.19	1.41	1.96	1.50	1.42	1.30	
20	0.15	0.26	0.10	0.16	0.26	0.20	0.41	1.39	1.90	1.49	1.42	1.30	
21	0.15	0.27	0.10	0.17	0.22	0.28	0.54	1.44	1.86	1.49	1.41	1.30	
22	0.16	0.16	0.17	0.30	0.17	0.27	0.43	2.37	1.83	1.49	1.40	1.29	
23	0.15	0.13	0.18	0.43	0.26	0.25	0.32	2.67	1.82	1.48	1.39	1.29	
24	0.19	0.13	0.15	0.35	0.28	0.21	0.33	2.05	1.78	1.48	1.38	1.29	
25	0.17	0.12	0.22	0.25	0.28	0.19	0.37	1.72	1.73	1.47	1.37	1.29	
26	0.15	0.12	0.24	0.18	0.28	0.18	0.42	1.51	1.71	1.47	1.37	1.28	
27	0.14	0.11	0.29	0.26	0.25	0.17	0.32	1.35	1.69	1.46	1.37	1.28	
28	0.14	0.11	0.19	0.20	0.18	0.17	0.28	1.36	1.71	1.45	1.36	1.28	
29	0.13	0.29	0.22	0.25	0.33	0.18	0.42	1.73	1.82	1.45		1.28	
30	0.13	0.16	0.17	0.34	0.53	0.39	0.48	4.88	1.86	1.43		1.28	
31		0.16		0.32	0.60		0.45		1.86	1.42		1.27	
MEAN	0.19	0.14	0.15	0.21	0.26	0.28	0.35	1.75	2.15	1.56	1.45	1.31	
MAX	0.30	0.29	0.29	0.43	0.60	0.49	0.72	4.88	4.19	1.79	1.65	1.36	4.88
MIN	0.13	0.10	0.10	0.12	0.15	0.17	0.18	1.10	1.69	1.42	1.36	1.27	0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.45 M (A.D.) AT 9.00 HOURS ON NOV 30, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED 0.02 M (A.D.)

LEFT BANK ELEVATION 3.89 M (A.D.)

RIGHT BANK ELEVATION 4.66 M (A.D.), DRAINAGE AREA 105 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	0.00	0.00	0.08	0.32	2.40	0.88	18.12	140.74	28.76	24.92	18.58	
2	0.80	0.00	0.00	0.08	1.90	1.60	0.96	18.81	63.80	28.76	25.40	18.35	
3	0.72	0.00	0.00	0.00	0.48	0.80	0.64	17.66	51.52	26.84	23.00	18.35	
4	1.20	0.00	0.00	0.16	0.64	0.88	2.90	19.96	39.20	25.64	21.80	18.35	
5	0.56	0.00	0.00	0.00	0.40	2.60	1.90	17.89	45.08	25.16	21.34	18.35	
6	0.48	0.00	0.00	0.00	0.24	1.70	1.04	13.20	50.68	24.68	21.11	18.12	
7	0.40	0.00	0.08	0.00	0.64	1.20	2.60	14.60	57.70	24.44	20.65	18.12	
8	0.32	0.00	0.00	0.00	0.32	0.56	1.40	19.27	58.60	24.20	20.42	18.12	
9	0.32	0.40	0.00	0.00	0.16	0.32	6.32	15.40	34.26	25.16	20.19	17.89	
10	0.24	0.00	0.00	0.00	0.32	1.60	2.50	29.96	32.96	27.56	19.96	17.66	
11	0.24	0.00	0.00	0.48	0.64	1.12	2.10	55.60	35.30	24.68	19.96	17.66	
12	0.24	0.00	0.00	0.64	0.16	2.30	0.96	68.96	31.66	23.96	19.96	17.66	
13	0.16	0.00	0.00	0.96	0.08	3.10	0.32	42.00	30.92	23.48	19.73	17.43	
14	0.16	0.32	0.00	0.80	0.08	3.10	0.24	27.08	40.04	23.24	21.80	17.43	
15	0.08	0.00	0.00	0.64	0.00	1.50	0.88	20.65	40.88	23.00	21.34	17.43	
16	0.08	0.00	0.00	0.24	0.00	0.72	1.04	17.43	36.60	22.76	21.11	17.43	
17	0.24	0.00	0.00	0.16	0.48	0.64	0.96	16.40	33.48	22.28	20.65	17.20	
18	0.32	0.40	0.00	0.08	2.50	0.72	0.48	16.00	31.92	22.04	20.42	17.20	
19	0.08	0.00	0.00	0.32	4.04	0.56	0.32	19.73	32.96	21.80	19.96	17.20	
20	0.00	0.88	0.00	0.08	0.88	0.40	2.30	19.27	31.40	21.57	19.96	17.20	
21	0.00	0.96	0.00	0.16	0.56	1.04	3.76	20.42	30.44	21.57	19.73	17.20	
22	0.08	0.08	0.16	1.20	0.16	0.96	2.50	43.96	29.72	21.57	19.50	17.00	
23	0.00	0.00	0.24	2.50	0.88	0.80	1.40	52.36	29.48	21.34	19.27	17.00	
24	0.32	0.00	0.00	1.70	1.04	0.48	1.50	35.30	28.52	21.34	19.04	17.00	
25	0.16	0.00	0.56	0.80	1.04	0.32	1.90	27.08	27.32	21.11	18.81	17.00	
26	0.00	0.00	0.72	0.24	1.04	0.24	2.40	22.04	26.84	21.11	18.81	16.80	
27	0.00	0.00	1.12	0.88	0.80	0.16	1.40	18.35	26.36	20.88	18.81	16.80	
28	0.00	0.00	0.32	0.40	0.24	0.16	1.04	18.58	26.84	20.65	18.58	16.80	
29	0.00	1.12	0.56	0.80	1.50	0.24	2.40	27.32	29.48	20.65		16.80	
30	0.00	0.08	0.16	1.60	3.62	2.10	3.00	246.56	30.44	20.19		16.80	
31		0.08		1.40	4.60		2.70		30.44	19.96		16.60	
TOTAL	8.40	4.32	3.92	16.40	29.76	34.32	54.74	999.96	1235.58	720.38	576.23	541.53	4225.53 CMSDAY
MEAN	0.28	0.14	0.13	0.53	0.96	1.14	1.77	33.33	39.86	23.24	20.58	17.47	11.58 CMS
MAX	1.20	1.12	1.12	2.50	4.60	3.10	6.32	246.56	140.74	28.76	25.40	18.58	246.56 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.16	0.24	13.20	26.36	19.96	18.58	16.60	0.00 CMS
RUNOFF	0.726	0.373	0.339	1.417	2.571	2.965	4.730	86.396	106.754	62.241	49.786	46.788	365.086 MCM

MOMENTARY PEAK 366.95 CMS, AT 5.45 M (A.D), AT 9.00 HOURS, ON NOV 30, 1980
RUNOFF YIELD 110.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 3494.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG BAN TAN AT BAN WANG KONG, NAKHON SI THAMMARAT (X.70)

LOCATION — LAT. 8°-25'-35" N., LONG. 99°-51'-53" E., ON RIGHT BANK DOWNSTREAM SIDE OF THE BRIDGE, AMPHOE MUANG, NAKHON SI THAMMARAT.

DRAINAGE AREA — 39 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ABOUT 5 METERS EAST OF THE TOP STAFF GAGE.

ELEVATION — +7.247 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1971

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 461 DISCHARGE MEASUREMENTS MADE DURING 1967-1971.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

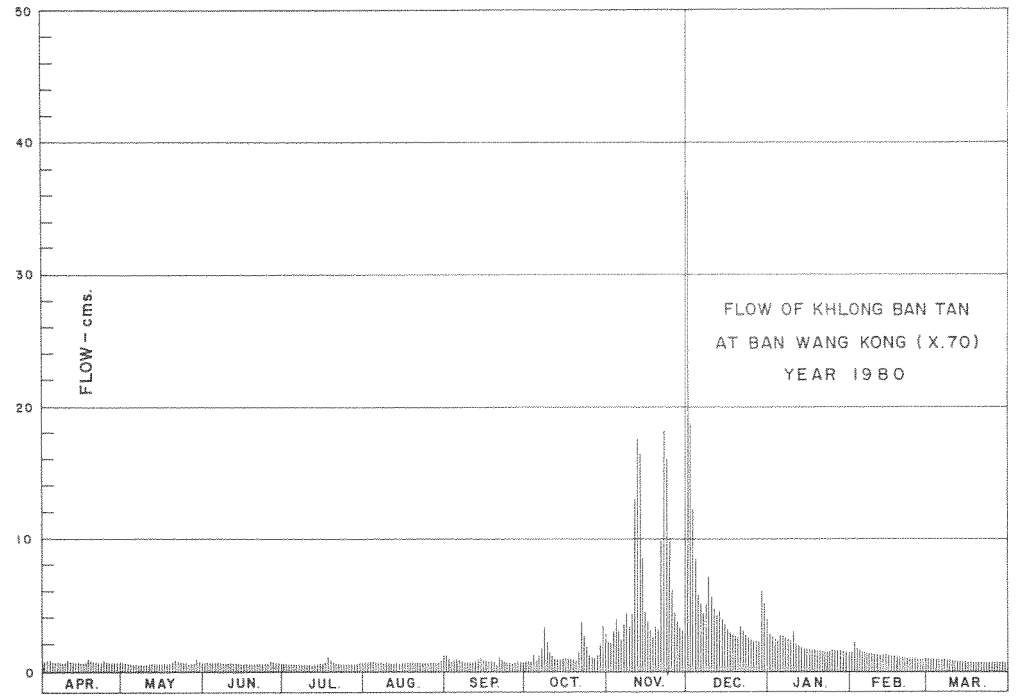
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.24	0.24	0.25	0.25	0.39	0.27	0.64	3.71	0.70	0.40	0.33	
2	0.26	0.24	0.24	0.25	0.29	0.30	0.29	0.58	2.48	0.65	0.57	0.33	
3	0.29	0.23	0.31	0.24	0.26	0.26	0.28	0.68	1.94	0.62	0.48	0.32	
4	0.27	0.23	0.26	0.24	0.30	0.27	0.41	0.83	1.39	0.60	0.46	0.32	
5	0.26	0.23	0.26	0.23	0.27	0.31	0.30	0.76	1.14	0.68	0.44	0.33	
6	0.26	0.23	0.25	0.23	0.26	0.28	0.40	0.62	1.00	0.66	0.43	0.32	
7	0.25	0.23	0.25	0.22	0.25	0.26	0.48	0.85	0.90	0.64	0.42	0.31	
8	0.25	0.23	0.24	0.22	0.24	0.25	0.75	0.91	1.01	0.62	0.41	0.32	
9	0.24	0.22	0.24	0.22	0.23	0.25	0.66	0.77	1.26	0.60	0.40	0.31	
10	0.29	0.22	0.23	0.23	0.25	0.26	0.44	0.94	1.05	0.71	0.40	0.31	
11	0.27	0.22	0.23	0.23	0.25	0.27	0.37	1.91	0.97	0.55	0.39	0.31	
12	0.26	0.22	0.25	0.24	0.25	0.27	0.34	2.33	0.88	0.51	0.40	0.30	
13	0.25	0.22	0.25	0.24	0.25	0.32	0.31	2.26	0.93	0.51	0.39	0.30	
14	0.25	0.26	0.24	0.23	0.25	0.34	0.30	1.42	0.84	0.49	0.37	0.30	
15	0.24	0.23	0.24	0.23	0.25	0.29	0.33	0.95	0.79	0.49	0.40	0.30	
16	0.24	0.26	0.23	0.23	0.25	0.27	0.34	0.83	0.75	0.48	0.38	0.29	
17	0.25	0.23	0.23	0.22	0.25	0.27	0.33	0.72	0.73	0.47	0.37	0.29	
18	0.31	0.23	0.23	0.22	0.25	0.27	0.31	0.65	0.69	0.47	0.37	0.29	
19	0.27	0.25	0.22	0.23	0.25	0.26	0.30	0.77	0.66	0.46	0.36	0.28	
20	0.25	0.23	0.22	0.25	0.26	0.25	0.29	0.71	0.63	0.45	0.36	0.28	
21	0.24	0.30	0.22	0.24	0.25	0.35	0.53	1.60	0.74	0.45	0.35	0.27	
22	0.24	0.28	0.21	0.24	0.24	0.30	0.80	2.39	0.71	0.44	0.34	0.27	
23	0.25	0.27	0.26	0.34	0.24	0.27	0.56	2.14	0.67	0.43	0.34	0.27	
24	0.26	0.26	0.28	0.30	0.23	0.26	0.44	1.88	0.65	0.44	0.35	0.28	
25	0.29	0.25	0.29	0.25	0.23	0.25	0.37	1.14	0.62	0.49	0.34	0.27	
26	0.26	0.24	0.28	0.24	0.25	0.26	0.37	0.92	0.60	0.46	0.33	0.27	
27	0.25	0.23	0.27	0.23	0.24	0.30	0.32	0.81	0.60	0.43	0.34	0.28	
28	0.25	0.23	0.26	0.23	0.23	0.28	0.42	0.75	0.58	0.44	0.33	0.27	
29	0.24	0.23	0.25	0.25	0.23	0.27	0.62	1.33	1.12	0.42		0.27	
30	0.24	0.26	0.25	0.24	0.29	0.27	0.77	4.99	1.05	0.40		0.27	
31	*	0.25		0.28	0.38		0.68		0.83	0.40		0.27	
MEAN	0.26	0.24	0.25	0.24	0.26	0.28	0.43	1.27	1.03	0.52	0.39	0.29	
MAX	0.31	0.33	0.31	0.34	0.38	0.39	0.80	4.99	3.71	0.71	0.57	0.33	4.99
MIN	0.24	0.22	0.21	0.22	0.23	0.25	0.27	0.58	0.58	0.40	0.33	0.27	0.21

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.94 M (A.D), AT 9.00 HOURS, ON NOV 30, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D); RIVER BED -0.19 M (A.D)

LEFT BANK ELEVATION — 7.74 M (A.D)

RIGHT BANK ELEVATION — 7.65 M (A.D); DRAINAGE AREA 39 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.61	0.61	0.65	0.65	1.25	0.73	2.59	36.15	2.95	1.30	0.99	
2	0.69	0.61	0.61	0.65	0.81	0.85	0.81	2.24	19.22	2.65	2.18	0.99	
3	0.81	0.57	0.89	0.61	0.69	0.69	0.77	2.83	13.40	2.47	1.70	0.94	
4	0.73	0.57	0.69	0.61	0.85	0.73	1.35	3.86	8.26	2.35	1.60	0.94	
5	0.69	0.57	0.69	0.57	0.73	0.89	0.85	3.37	6.17	2.83	1.50	0.99	
6	0.69	0.57	0.65	0.57	0.69	0.77	1.30	2.47	5.10	2.71	1.45	0.94	
7	0.65	0.57	0.65	0.53	0.65	0.69	1.70	4.00	4.35	2.59	1.40	0.89	
8	0.65	0.57	0.61	0.53	0.61	0.65	3.30	4.42	5.17	2.47	1.35	0.94	
9	0.61	0.53	0.61	0.53	0.57	0.65	2.71	3.44	7.16	2.35	1.30	0.89	
10	0.81	0.53	0.57	0.57	0.65	0.69	1.50	4.65	5.47	3.02	1.30	0.89	
11	0.73	0.53	0.57	0.57	0.65	0.73	1.16	13.10	4.87	2.07	1.25	0.89	
12	0.69	0.53	0.65	0.61	0.65	0.73	1.03	17.53	4.21	1.85	1.30	0.85	
13	0.65	0.53	0.65	0.61	0.65	0.94	0.89	16.76	4.57	1.85	1.25	0.85	
14	0.65	0.69	0.61	0.57	0.65	1.03	0.85	8.53	3.93	1.75	1.16	0.85	
15	0.61	0.57	0.61	0.57	0.65	0.81	0.99	4.72	3.58	1.75	1.30	0.85	
16	0.61	0.69	0.57	0.57	0.65	0.73	1.03	3.86	3.30	1.70	1.21	0.81	
17	0.65	0.57	0.57	0.53	0.65	0.73	0.99	3.09	3.16	1.65	1.16	0.81	
18	0.89	0.57	0.57	0.53	0.77	0.73	0.89	2.65	2.89	1.65	1.16	0.81	
19	0.73	0.65	0.53	0.57	0.77	0.69	0.85	3.44	2.71	1.60	1.12	0.77	
20	0.65	0.57	0.53	0.65	0.69	0.65	0.81	3.02	2.53	1.55	1.12	0.77	
21	0.61	0.85	0.53	0.61	0.65	1.07	1.96	10.15	3.23	1.55	1.07	0.73	
22	0.61	0.77	0.49	0.61	0.61	0.85	3.65	18.19	3.02	1.50	1.03	0.73	
23	0.65	0.73	0.69	1.03	0.61	0.73	2.13	15.44	2.77	1.45	1.03	0.73	
24	0.69	0.69	0.77	0.85	0.57	0.69	1.50	12.80	2.65	1.50	1.07	0.77	
25	0.81	0.65	0.81	0.65	0.57	0.65	1.16	6.17	2.47	1.75	1.03	0.73	
26	0.69	0.61	0.77	0.61	0.65	0.69	1.16	4.50	2.35	1.60	0.99	0.73	
27	0.65	0.57	0.73	0.57	0.61	0.85	0.94	3.72	2.35	1.45	1.03	0.77	
28	0.65	0.57	0.69	0.57	0.57	0.77	1.40	3.30	2.24	1.50	0.99	0.73	
29	0.61	0.99	0.65	0.65	0.57	0.73	2.47	7.75	6.01	1.40		0.73	
30	0.61	0.69	0.65	0.61	0.81	0.73	3.44	58.42	5.47	1.30		0.73	
31		0.65		0.77	1.21		2.83		3.86	1.30		0.73	
TOTAL	20.50	19.37	19.22	19.13	21.11	23.39	47.15	251.01	182.62	60.11	35.35	25.77	724.73 CMSDAY
MEAN	0.68	0.62	0.64	0.62	0.68	0.78	1.52	8.37	5.89	1.94	1.26	0.83	1.99 CMS
MAX	0.89	0.99	0.89	1.03	1.21	1.25	3.65	58.42	36.15	3.02	2.18	0.99	58.42 CMS
MIN	0.61	0.53	0.49	0.53	0.57	0.65	0.73	2.24	2.24	1.30	0.99	0.73	0.49 CMS
RUNOFF	1.771	1.674	1.661	1.653	1.824	2.021	4.074	21.687	15.778	5.193	3.054	2.227	62.617 MCM

MOMENTARY PEAK 76.30 CMS, AT 5.94 M (A.D), AT 9.00 HOURS, ON NOV 30, 1980
RUNOFF YIELD 50.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1956.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG THA THON AT BAN NAM CHA, NAKHON SI THAMMARAT (X.101)

LOCATION — LAT. 8°-52'-30" N., LONG. 99°-51'-40" E., ON RIGHT BANK AT BAN NAM CHA, AMPHOE SICHON, NAKHON SI THAMMARAT.

DRAINAGE AREA — 95 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 11 METERS NORTH FROM THE STATION OFFICE.

ELEVATION — +8.666 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1976 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1976 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1976 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 208 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

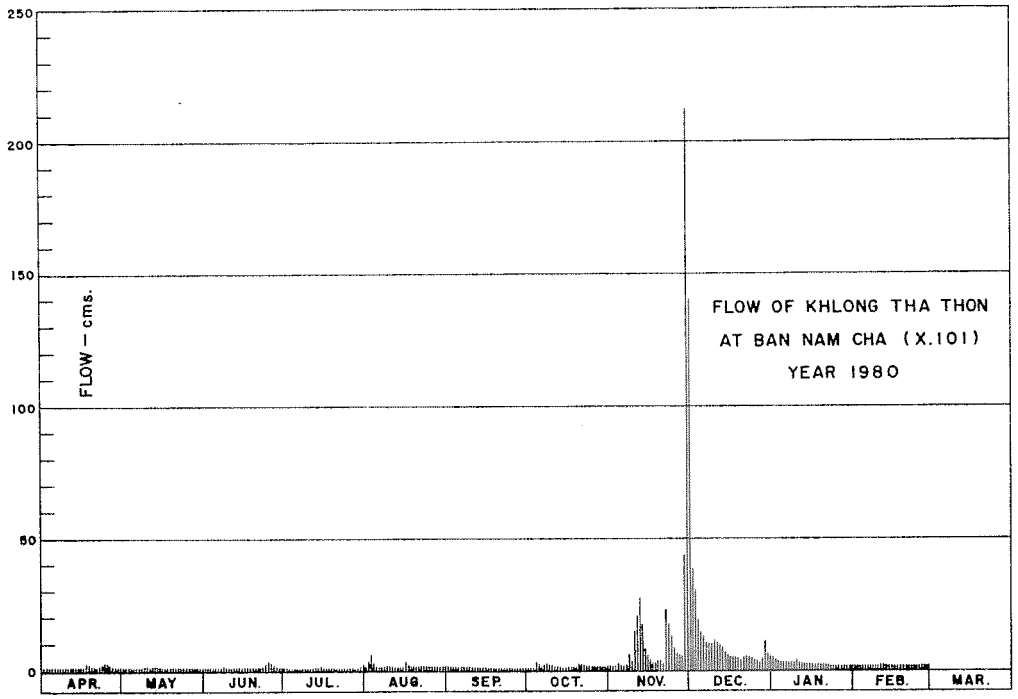
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.50	0.48	0.50	0.55	0.54	0.48	0.59	2.85	0.82	0.61	*******	
2	0.51	0.50	0.47	0.49	0.58	0.51	0.51	0.57	2.10	0.79	0.61	*******	
3	0.50	0.49	0.55	0.49	0.73	0.50	0.53	0.57	1.77	0.77	0.61	*******	
4	0.50	0.49	0.49	0.48	0.88	0.50	0.74	0.70	1.48	0.75	0.61	*******	
5	0.50	0.48	0.47	0.48	0.64	0.59	0.58	0.62	1.34	0.73	0.61	*******	
6	0.49	0.48	0.48	0.48	0.60	0.52	0.56	0.60	1.22	0.72	0.61	*******	
7	0.49	0.48	0.51	0.49	0.56	0.51	0.67	0.65	1.15	0.72	0.60	*******	
8	0.49	0.48	0.64	0.49	0.55	0.50	0.65	0.91	1.10	0.71	0.60	*******	
9	0.49	0.50	0.53	0.49	0.53	0.49	0.62	0.81	1.08	0.70	0.60	*******	
10	0.48	0.53	0.51	0.49	0.59	0.49	0.64	1.32	1.14	0.80	0.60	*******	
11	0.48	0.49	0.50	0.49	0.54	0.48	0.59	1.49	1.10	0.71	0.59	*******	
12	0.48	0.48	0.52	0.50	0.57	0.49	0.56	1.74	1.08	0.70	0.59	*******	
13	0.48	0.54	0.50	0.55	0.60	0.51	0.53	1.36	1.07	0.71	0.59	*******	
14	0.48	0.53	0.49	0.51	0.57	0.50	0.54	1.04	0.96	0.70	0.59	*******	
15	0.47	0.50	0.48	0.50	0.57	0.50	0.56	0.88	0.92	0.69	0.58	*******	
16	0.47	0.53	0.52	0.55	0.72	0.49	0.60	0.80	0.87	0.68	0.58	*******	
17	0.70	0.50	0.49	0.50	0.62	0.48	0.56	0.75	0.86	0.67	0.58	*******	
18	0.68	0.49	0.48	0.49	0.57	0.47	0.54	0.73	0.83	0.67	0.58	*******	
19	0.57	0.48	0.48	0.48	0.55	0.47	0.53	0.79	0.81	0.67	0.55	*******	
20	0.53	0.48	0.49	0.47	0.54	0.47	0.67	0.78	0.80	0.66	0.57	*******	
21	0.51	0.48	0.51	0.46	0.56	0.58	0.59	0.73	0.82	0.65	0.57	*******	
22	0.50	0.48	0.50	0.46	0.54	0.51	0.57	1.60	0.84	0.64	0.57	*******	
23	0.59	0.47	0.54	0.48	0.53	0.49	0.54	1.40	0.80	0.64	0.57	*******	
24	0.68	0.47	0.68	0.49	0.52	0.55	0.53	1.20	0.77	0.64	0.56	*******	
25	0.60	0.48	0.74	0.52	0.51	0.50	0.52	1.12	0.76	0.63	0.56	*******	
26	0.57	0.48	0.64	0.51	0.52	0.49	0.51	0.97	0.75	0.63	0.56	*******	
27	0.55	0.47	0.57	0.53	0.57	0.50	0.52	0.89	0.74	0.63	0.55	*******	
28	0.53	0.51	0.56	0.52	0.53	0.48	0.51	0.84	0.77	0.62	0.55	*******	
29	0.52	0.52	0.53	0.51	0.50	0.48	0.51	0.95	1.14	0.62		*******	
30	0.51	0.51	0.51	0.51	0.52	0.50	0.52	4.51	0.92	0.61		*******	
31		0.48		0.67	0.59		0.62		0.85	0.61		*******	
MEAN	0.53	0.49	0.53	0.50	0.58	0.50	0.57	1.06	1.09	0.69	0.58	*******	
MAX	0.70	0.54	0.74	0.67	0.88	0.59	0.74	4.51	2.85	0.82	0.61	*******	4.51
MIN	0.47	0.47	0.47	0.46	0.50	0.47	0.48	0.57	0.74	0.61	0.55	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.26 M (A.D.), AT 12.00 HOURS, ON NOV 30, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED 0.15 M (A.D.)

LEFT BANK ELEVATION 7.04 M (A.D.)

RIGHT BANK ELEVATION 9.07 M (A.D.), DRAINAGE AREA 95 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	1.00	0.80	1.00	1.50	1.40	0.80	1.90	77.50	5.06	2.10	*******	
2	1.10	1.00	0.70	0.90	1.80	1.10	1.10	1.70	40.80	4.53	2.10	*******	
3	1.00	0.90	1.50	0.90	3.51	1.00	1.30	1.70	28.98	4.19	2.10	*******	
4	1.00	0.90	0.90	0.80	6.14	1.00	3.68	3.00	20.24	3.85	2.10	*******	
5	1.00	0.80	0.70	0.80	2.40	1.90	1.80	2.20	16.32	3.51	2.10	*******	
6	0.90	0.80	0.80	0.80	2.00	1.20	1.60	2.00	13.28	3.34	2.10	*******	
7	0.90	0.80	1.10	0.90	1.60	1.10	2.70	2.50	11.65	3.51	2.00	*******	
8	0.90	0.80	2.40	0.90	1.50	1.00	2.50	6.70	10.50	3.17	2.00	*******	
9	0.90	1.00	1.30	0.90	1.30	0.90	2.20	4.88	10.10	3.00	2.00	*******	
10	0.80	1.30	1.10	0.90	1.90	0.90	2.40	15.76	11.42	4.70	2.00	*******	
11	0.80	0.90	1.00	0.90	1.40	0.80	1.90	20.52	10.50	3.17	1.90	*******	
12	0.80	0.80	1.20	1.00	1.70	0.90	1.60	27.96	10.10	3.00	1.90	*******	
13	0.80	1.40	1.00	1.50	2.00	1.10	1.30	16.88	9.90	3.17	1.90	*******	
14	0.80	1.30	0.90	1.10	1.70	1.00	1.40	9.30	7.70	3.00	1.90	*******	
15	0.70	1.00	0.80	1.00	1.70	1.00	1.60	6.14	6.90	2.90	1.80	*******	
16	0.70	1.30	1.20	1.50	3.34	0.90	2.00	4.70	5.96	2.80	1.80	*******	
17	3.00	1.00	0.90	1.00	2.20	0.80	1.60	3.85	5.78	2.70	1.80	*******	
18	2.80	0.90	0.80	0.90	1.70	0.70	1.40	3.51	5.24	2.70	1.80	*******	
19	1.70	0.80	0.80	0.80	1.50	0.70	1.30	4.53	4.88	2.70	1.80	*******	
20	1.30	0.80	0.90	0.70	1.40	0.70	2.70	4.36	4.70	2.60	1.70	*******	
21	1.10	0.80	1.10	0.60	1.60	1.80	1.90	3.51	5.06	2.50	1.70	*******	
22	1.00	0.80	1.00	0.60	1.40	1.10	1.70	23.60	5.42	2.40	1.70	*******	
23	1.90	0.70	1.40	0.80	1.30	0.90	1.40	18.00	4.70	2.40	1.70	*******	
24	2.80	0.70	2.80	0.90	1.20	1.50	1.30	12.80	4.19	2.40	1.60	*******	
25	2.00	0.80	3.68	1.20	1.10	1.00	1.20	10.96	4.02	2.30	1.60	*******	
26	1.70	0.80	2.40	1.10	1.20	0.90	1.10	7.90	3.85	2.30	1.60	*******	
27	1.50	0.70	1.70	1.30	1.70	1.00	1.20	6.32	3.68	2.30	1.50	*******	
28	1.30	1.10	1.60	1.20	1.30	0.80	1.10	5.42	4.19	2.20	1.50	*******	
29	1.20	1.20	1.30	1.10	1.00	0.80	1.10	7.50	11.42	2.20		*******	
30	1.10	1.10	1.10	1.10	1.20	1.00	1.20	212.50	6.90	2.10		*******	
31		0.80		2.70	1.90		2.20		5.78	2.10		*******	
TOTAL	38.70	29.00	38.88	31.80	57.19	30.90	52.28	452.60	371.66	92.80	51.80	*******	******** CMSDAY
MEAN	1.29	0.94	1.30	1.03	1.84	1.03	1.69	15.09	11.99	2.99	1.85	*******	******* CMS
MAX	3.00	1.40	3.68	2.70	6.14	1.90	3.68	212.50	77.50	5.06	2.10	*******	212.50 CMS
MIN	0.70	0.70	0.70	0.60	1.00	0.70	0.80	1.70	3.68	2.10	1.50	*******	******* CMS
RUNOFF	3.344	2.506	3.359	2.748	4.941	2.670	4.517	39.105	32.111	8.018	4.476	*******	******** MCM

MOMENTARY PEAK 291.60 CMS, AT 5.26 M (A.D), AT 12.00 HOURS, ON NOV 30, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 3069.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

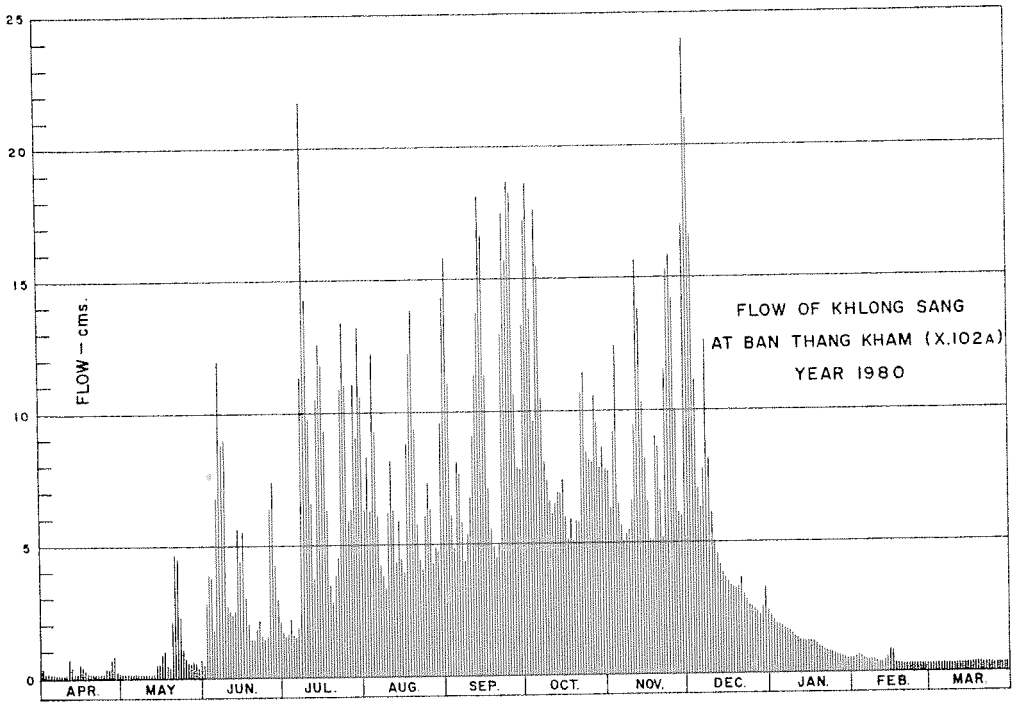
KHLONG SANG AT BAN THANG KHAM, NAKHON SI THAMMARAT (X.102A)

LOCATION	LAT. 8°-17'-57" N., LONG. 99°-23'-00" E., ON RIGHT BANK AT BAN THANG KHAM, TAMBON THA YANG, AMPHOE THUNG YAI, NAKHON SI THAMMARAT.
DRAINAGE AREA	152 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=M.D.
LOCATION	ON RIGHT BANK ABOUT 2.70 METERS FROM THE OBSERVER'S HOUSE.
ELEVATION	+5.323 M. (A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 119 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	0.56	0.81	1.20	2.19	3.53	3.59	2.42	4.69	1.54	1.08	0.99	
2	0.61	0.54	1.46	1.19	2.50	2.77	3.88	2.18	4.53	1.50	1.09	0.99	
3	0.54	0.51	1.71	1.13	2.16	2.13	3.44	2.45	4.14	1.46	1.11	0.99	
4	0.53	0.52	1.69	1.33	3.07	1.91	2.70	3.09	3.59	1.46	1.09	0.99	
5	0.52	0.51	1.24	1.19	2.62	2.48	3.75	2.25	2.73	1.45	1.08	0.99	
6	0.51	0.56	1.50	1.16	2.16	2.41	3.68	2.06	2.51	1.43	1.07	0.99	
7	0.51	0.52	3.03	1.20	1.81	1.96	2.88	2.23	2.84	1.45	1.06	0.99	
8	0.50	0.50	2.59	1.33	1.72	1.21	2.49	2.30	3.73	1.41	1.04	0.99	
9	0.50	0.52	2.61	4.25	1.61	1.98	2.33	2.35	2.93	1.39	1.04	0.99	
10	0.50	0.61	1.46	3.88	2.19	2.12	2.28	2.51	2.45	1.35	1.04	0.99	
11	0.90	0.57	1.43	2.81	2.48	2.64	2.12	3.03	2.24	1.33	1.01	0.99	
12	0.70	0.56	1.38	2.20	2.17	2.80	2.23	4.13	2.13	1.30	1.01	0.99	
13	0.58	0.55	1.40	1.70	1.82	3.23	2.29	3.96	2.04	1.30	1.01	0.99	
14	0.54	0.85	2.06	2.82	2.10	3.82	2.29	3.27	1.96	1.29	1.08	0.99	
15	0.83	0.83	1.83	3.12	1.84	3.59	2.36	2.85	1.92	1.29	1.16	0.99	
16	0.76	0.96	2.04	3.00	1.73	2.95	2.17	2.60	1.87	1.28	1.16	0.99	
17	0.64	1.03	1.53	2.55	2.36	2.32	1.96	2.26	1.84	1.28	1.06	0.99	
18	0.61	0.83	1.39	1.97	2.99	2.02	2.10	2.24	1.82	1.26	1.02	0.99	
19	0.55	0.71	1.16	1.62	3.28	1.91	1.96	3.09	1.80	1.22	1.01	0.99	
20	0.54	0.99	1.10	1.50	2.89	1.84	2.10	3.01	1.84	1.21	1.01	0.99	
21	0.54	1.88	1.16	1.60	2.15	1.90	2.09	2.55	1.91	1.18	1.01	0.99	
22	0.53	1.82	1.31	1.84	1.83	3.32	2.80	2.27	1.75	1.17	1.00	0.99	
23	0.51	1.21	1.20	2.88	1.75	3.74	2.96	3.51	1.69	1.16	1.00	0.99	
24	0.51	1.01	1.13	3.23	2.04	3.52	2.56	4.05	1.64	1.16	1.00	0.99	
25	0.70	0.85	1.15	2.83	2.36	3.89	2.49	4.15	1.63	1.14	1.00	0.99	
26	0.68	0.85	2.19	2.12	2.21	3.85	2.46	3.63	1.62	1.13	0.99	0.99	
27	0.93	0.83	2.35	2.19	1.80	2.80	2.83	2.92	1.60	1.12	0.99	0.99	
28	0.95	0.89	1.88	2.91	1.93	2.43	2.74	2.48	1.57	1.11	0.99	0.99	
29	0.67	0.84	1.53	2.62	1.89	2.44	2.43	2.45	1.63	1.11		0.99	
30	0.59	0.72	1.31	3.21	2.45	2.93	2.57	4.34	1.80	1.09		0.99	
31		0.92		2.85	3.27		2.45		1.64	1.08		0.99	
MEAN	0.62	0.81	1.62	2.24	2.24	2.70	2.61	2.90	2.33	1.28	1.04	0.99	
MAX	0.95	1.88	3.03	4.25	3.28	3.89	3.88	4.34	4.69	1.54	1.16	0.99	4.69
MIN	0.50	0.50	0.81	1.13	1.61	1.81	1.96	2.06	1.57	1.08	0.99	0.99	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.71 M (A.D), AT 6.00 HOURS, ON DEC 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.30 M (A.D)
LEFT BANK ELEVATION 5.06 M (A.D)
RIGHT BANK ELEVATION 5.87 M (A.D), DRAINAGE AREA 152 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.13	0.47	1.65	6.34	15.79	16.27	7.73	24.02	2.16	0.55	0.33	
2	0.20	0.10	2.69	1.61	8.25	10.09	18.59	6.29	20.31	2.00	0.57	0.33	
3	0.10	0.06	3.80	1.37	6.18	6.01	15.07	7.92	15.76	1.84	0.63	0.33	
4	0.09	0.08	3.70	2.17	12.22	4.80	9.60	12.37	11.74	1.84	0.57	0.33	
5	0.08	0.06	1.81	1.61	9.04	8.12	17.55	6.70	7.28	1.80	0.55	0.33	
6	0.06	0.13	2.85	1.49	6.18	7.66	16.99	5.63	6.29	1.72	0.52	0.33	
7	0.06	0.08	11.92	1.65	4.30	5.08	10.86	5.03	7.78	1.80	0.50	0.33	
8	0.05	0.05	8.83	2.17	3.85	4.30	8.18	5.35	12.64	1.64	0.45	0.33	
9	0.05	0.08	8.97	21.72	3.34	5.19	7.18	5.57	8.20	1.56	0.45	0.33	
10	0.05	0.20	2.69	18.59	6.34	5.96	6.88	6.29	6.02	1.42	0.45	0.33	
11	0.70	0.14	2.57	10.37	8.12	9.18	5.96	8.70	5.08	1.35	0.37	0.33	
12	0.32	0.13	2.37	6.40	6.23	10.30	6.58	15.67	4.58	1.25	0.37	0.33	
13	0.16	0.12	2.45	3.75	4.35	13.42	6.94	14.28	4.18	1.25	0.37	0.33	
14	0.10	0.57	5.63	10.44	5.85	18.11	6.94	9.93	3.84	1.22	0.55	0.33	
15	0.52	0.52	4.40	12.60	4.45	16.27	7.36	7.96	3.68	1.22	0.78	0.33	
16	0.40	0.85	5.52	11.70	3.90	11.35	6.23	6.70	3.48	1.18	0.78	0.33	
17	0.24	1.04	2.98	8.57	7.36	7.12	5.08	5.17	3.36	1.18	0.50	0.33	
18	0.20	0.52	2.41	5.13	11.63	5.41	5.85	5.08	3.28	1.11	0.40	0.33	
19	0.12	0.33	1.49	3.39	13.80	4.80	5.08	9.00	3.20	0.97	0.37	0.33	
20	0.10	0.92	1.25	2.85	10.93	4.45	5.85	8.60	3.36	0.93	0.37	0.33	
21	0.10	4.65	1.49	3.30	6.12	4.75	5.79	6.47	3.64	0.84	0.37	0.33	
22	0.09	4.35	2.09	4.45	4.40	14.11	10.30	6.21	3.00	0.81	0.35	0.33	
23	0.06	1.69	1.65	10.86	4.05	17.47	11.42	11.26	2.76	0.78	0.35	0.33	
24	0.06	0.98	1.37	13.42	5.52	15.71	8.64	15.00	2.56	0.78	0.35	0.33	
25	0.32	0.57	1.45	10.51	7.36	18.67	8.18	15.85	2.52	0.72	0.35	0.33	
26	0.29	0.57	6.34	5.96	6.46	18.35	7.99	13.31	2.48	0.69	0.33	0.33	
27	0.77	0.52	7.30	6.34	4.25	10.30	10.51	8.15	2.40	0.66	0.33	0.33	
28	0.82	0.67	4.65	11.07	4.91	7.79	9.88	6.16	2.28	0.63	0.33	0.33	
29	0.28	0.55	2.98	9.04	4.70	7.86	7.79	6.02	2.52	0.63		0.33	
30	0.17	0.34	2.09	13.27	7.92	11.21	8.70	17.74	3.20	0.57		0.33	
31		0.75		10.65	13.72		7.92		2.56	0.55		0.33	
TOTAL	6.94	21.75	110.21	228.10	212.07	299.63	286.16	265.14	188.00	37.10	12.86	10.23	1678.19 CMSDAY
MEAN	0.23	0.70	3.67	7.36	6.84	9.99	9.23	8.84	6.06	1.20	0.46	0.33	4.60 CMS
MAX	0.82	4.65	11.92	21.72	13.80	18.67	18.59	17.74	24.02	2.16	0.78	0.33	24.02 CMS
MIN	0.05	0.05	0.47	1.37	3.34	4.30	5.08	5.03	2.28	0.55	0.33	0.33	0.05 CMS
RUNOFF	0.600	1.879	9.522	19.708	18.323	25.888	24.724	22.908	16.243	3.205	1.111	0.884	144.995 MCM

MOMENTARY PEAK 25.90 CMS, AT 4.71 M (A.D), AT 6.00 HOURS, ON DEC 1, 1980

RUNOFF YIELD 30.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 170.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG MAI SIAP AT BAN MAI SIAP, NAKHON SI THAMMARAT (X.105)

LOCATION — LAT. 7°-51'-01" N., LONG. 99°-55'-53" E., ON LEFT BANK AT THE BRIDGE OF NAKHON SI THAMMARAT-PHATTHALUNG HIGHWAY, AT BAN MAI SIAP, AMPHOE CHA-UAT, NAKHON SI THAMMARAT.

DRAINAGE AREA — 155 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ON LEFT BANK ABOUT 10 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +7.705 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 183 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

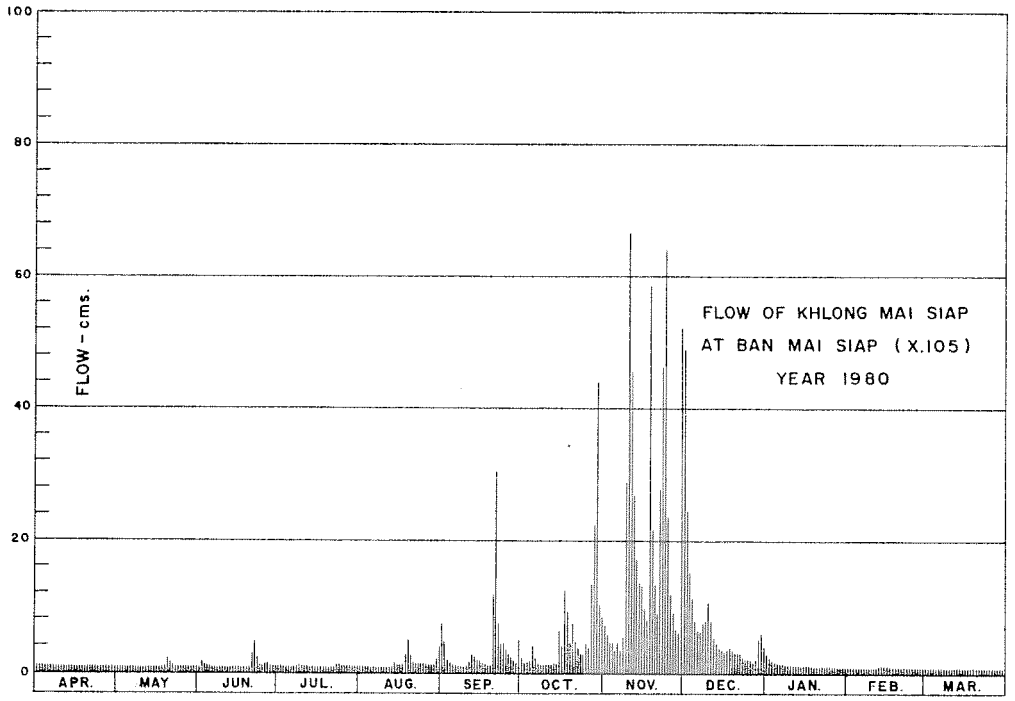
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.83	0.82	0.84	0.84	0.86	1.48	1.04	1.52	3.16	1.14	0.86	0.84	
2	0.83	0.82	0.98	0.83	0.87	1.09	0.95	1.37	2.40	1.04	0.90	0.84	
3	0.83	0.82	0.92	0.83	0.86	0.98	1.02	1.26	1.86	1.01	0.87	0.84	
4	0.83	0.82	0.89	0.82	0.85	0.93	0.96	1.27	1.63	0.98	0.86	0.83	
5	0.83	0.81	0.85	0.82	0.84	0.94	1.22	1.15	1.49	0.97	0.86	0.83	
6	0.83	0.81	0.84	0.82	0.84	0.90	1.02	1.27	1.39	0.96	0.86	0.83	
7	0.83	0.81	0.83	0.81	0.83	0.89	0.96	1.14	1.37	0.95	0.85	0.83	
8	0.83	0.81	0.82	0.81	0.83	0.87	0.94	1.24	1.48	0.94	0.85	0.83	
9	0.83	0.82	0.81	0.90	0.82	0.87	0.93	1.83	1.50	0.93	0.85	0.83	
10	0.83	0.82	0.81	0.87	0.92	0.98	0.93	3.65	1.67	0.92	0.85	0.83	
11	0.83	0.81	0.81	0.86	0.82	0.93	0.93	3.47	1.46	0.91	0.84	0.82	
12	0.83	0.81	0.91	0.85	0.84	0.94	0.94	2.77	1.34	0.91	0.84	0.82	
13	0.83	0.83	0.83	0.84	0.84	1.08	0.93	2.22	1.27	0.90	0.84	0.82	
14	0.83	0.85	0.82	0.83	0.96	1.07	0.93	1.88	1.20	0.90	0.84	0.82	
15	0.83	0.83	0.81	0.82	0.90	1.02	1.41	1.82	1.15	0.90	0.91	0.82	
16	0.83	0.83	0.81	0.82	0.87	0.99	1.20	1.56	1.11	0.89	0.89	0.81	
17	0.83	0.83	0.81	0.92	0.87	0.96	1.78	1.42	1.16	0.89	0.86	0.81	
18	0.83	0.83	0.81	0.81	1.02	0.91	1.68	3.43	1.22	0.89	0.86	0.81	
19	0.83	0.81	0.80	0.81	1.30	0.89	1.28	2.32	1.11	0.89	0.85	0.81	
20	0.83	1.00	0.81	0.81	1.06	0.86	1.49	1.89	1.15	0.88	0.85	0.81	
21	0.82	0.89	0.81	0.82	0.94	2.56	1.30	1.59	1.09	0.88	0.84	0.80	
22	0.82	0.88	1.27	0.84	0.92	1.49	1.21	2.45	1.11	0.88	0.84	0.80	
23	0.92	0.86	1.06	0.89	0.92	1.24	1.13	2.88	1.06	0.88	0.84	0.80	
24	0.82	0.83	0.91	0.95	0.92	1.27	1.09	2.43	1.01	0.87	0.84	0.80	
25	0.82	0.83	0.88	0.90	0.94	1.19	1.77	2.22	1.02	0.87	0.84	0.80	
26	0.82	0.82	0.92	0.87	0.93	1.10	1.20	1.76	1.00	0.87	0.84	0.81	
27	0.82	0.82	0.99	0.86	0.93	1.04	1.80	1.53	0.98	0.87	0.84	0.81	
28	0.82	0.82	0.92	0.86	0.92	0.97	1.94	1.40	0.99	0.86	0.84	0.81	
29	0.82	0.82	0.86	0.86	0.90	0.95	3.02	1.38	1.32	0.86		0.81	
30	0.82	0.82	0.86	0.86	0.95	1.12	1.73	3.25	1.38	0.86		0.81	
31		0.82		0.86	1.23		1.51		1.21	0.86		0.81	
MEAN	0.83	0.83	0.87	0.84	0.92	1.08	1.28	1.98	1.36	0.91	0.85	0.82	
MAX	0.83	1.00	1.27	0.95	1.30	2.56	3.02	3.65	3.16	1.14	0.91	0.84	3.65
MIN	0.82	0.81	0.80	0.81	0.82	0.86	0.93	1.14	0.98	0.86	0.84	0.80	0.80

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.05 M (A.D.), AT 8.00 HOURS, ON NOV 10, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED -0.51 M (A.D.)

LEFT BANK ELEVATION — 10.08 M (A.D.)

RIGHT BANK ELEVATION — 11.32 M (A.D.), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.85	0.80	0.90	0.90	1.00	7.50	2.26	8.10	48.84	3.20	1.00	0.90	
2	0.85	0.80	1.76	0.85	1.05	2.71	1.55	5.91	26.10	2.26	1.20	0.90	
3	0.85	0.80	1.34	0.85	1.00	1.76	2.08	4.52	14.00	1.99	1.05	0.90	
4	0.85	0.80	1.15	0.80	0.95	1.41	1.62	4.64	9.81	1.76	1.00	0.85	
5	0.85	0.75	0.95	0.80	0.90	1.48	4.04	3.30	7.65	1.69	1.00	0.85	
6	0.85	0.75	0.90	0.80	0.90	1.20	2.08	4.64	6.17	1.62	1.00	0.85	
7	0.85	0.75	0.85	0.75	0.85	1.15	1.62	3.20	5.91	1.55	0.95	0.85	
8	0.85	0.75	0.80	0.75	0.85	1.05	1.48	4.28	7.50	1.48	0.95	0.85	
9	0.85	0.80	0.75	1.20	0.80	1.05	1.41	13.40	7.80	1.41	0.95	0.85	
10	0.85	0.80	0.75	1.05	0.80	1.10	1.41	66.54	10.49	1.34	0.95	0.85	
11	0.85	0.75	0.75	1.00	0.80	1.41	1.41	49.40	7.20	1.27	0.90	0.80	
12	0.85	0.75	0.75	0.95	0.90	1.48	1.48	27.28	5.52	1.27	0.90	0.80	
13	0.85	0.85	0.85	0.90	0.90	2.62	1.41	16.90	4.64	1.20	0.90	0.80	
14	0.85	0.95	0.80	0.85	1.62	2.53	1.41	13.57	3.80	1.20	0.90	0.80	
15	0.85	0.85	0.75	0.80	1.20	2.08	6.45	13.20	3.30	1.20	1.27	0.80	
16	0.85	0.85	0.75	0.80	1.05	1.83	3.80	8.70	2.90	1.15	1.15	0.75	
17	0.85	0.85	0.75	0.80	1.05	1.62	12.44	6.60	3.40	1.15	1.00	0.75	
18	0.85	0.85	0.75	0.75	2.08	1.27	10.66	58.38	4.04	1.15	1.00	0.75	
19	0.85	0.75	0.70	0.75	5.00	1.15	4.76	24.10	2.90	1.15	0.95	0.75	
20	0.85	1.90	0.75	0.75	2.44	1.00	7.65	14.60	3.30	1.10	0.95	0.75	
21	0.80	1.15	0.75	0.80	1.48	30.32	5.00	9.15	2.71	1.10	0.90	0.70	
22	0.80	1.10	4.64	0.90	1.34	7.65	3.92	27.66	2.90	1.10	0.90	0.70	
23	0.80	1.00	2.44	1.15	1.34	4.28	3.10	39.78	2.44	1.10	0.90	0.70	
24	0.80	0.85	1.27	1.55	1.34	4.64	2.71	26.88	1.99	1.05	0.90	0.70	
25	0.80	0.85	1.10	1.20	1.48	3.70	4.64	21.76	2.08	1.05	0.90	0.70	
26	0.80	0.80	1.34	1.05	1.41	2.80	3.80	12.08	1.90	1.05	0.90	0.75	
27	0.80	0.80	1.83	1.00	1.41	2.26	12.80	8.25	1.76	1.05	0.90	0.75	
28	0.80	0.80	1.34	1.00	1.34	1.69	15.60	6.30	1.83	1.00	0.90	0.75	
29	0.80	0.80	1.10	1.00	1.20	1.55	44.24	6.04	5.26	1.00		0.75	
30	0.80	0.80	1.00	1.00	1.55	3.00	11.54	51.95	6.04	1.00		0.75	
31		0.80		1.00	4.16		7.95		3.92	1.00		0.75	
TOTAL	25.00	26.90	34.56	28.75	44.19	99.29	186.32	561.11	218.10	41.64	27.17	24.40	1317.43 CMSDAY
MEAN	0.83	0.87	1.15	0.93	1.43	3.31	6.01	18.70	7.04	1.34	0.97	0.79	3.61 CMS
MAX	0.85	1.90	4.64	1.55	5.00	30.32	44.24	66.54	48.84	3.20	1.27	0.90	66.54 CMS
MIN	0.80	0.75	0.70	0.75	0.80	1.00	1.41	3.20	1.76	1.00	0.90	0.70	0.70 CMS
RUNOFF	2.160	2.324	2.986	2.484	3.818	8.579	16.098	48.480	18.844	3.598	2.347	2.108	113.926 MCM

MOMENTARY PEAK 82.06 CMS, AT 4.05 M (A.D), AT 8.00 HOURS, ON NOV 10, 1980
RUNOFF YIELD 23.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 529.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG THA KHAE AT BAN THA KHAE, PHATTHALUNG (X.68)

LOCATION — LAT. 7°-34'-01" N., LONG. 100°-03'-05" E., ON LEFT BANK DOWNSTREAM SIDE OF THE BRIDGE OF PHATTHALUNG-HAT YAI HIGHWAY, TAMBON THA KHAE, AMPHOE MUANG, PHATTHALUNG.

DRAINAGE AREA — 298 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 15 METERS FROM THE BRIDGE.

ELEVATION — +4.659 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1972

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1972

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 258 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

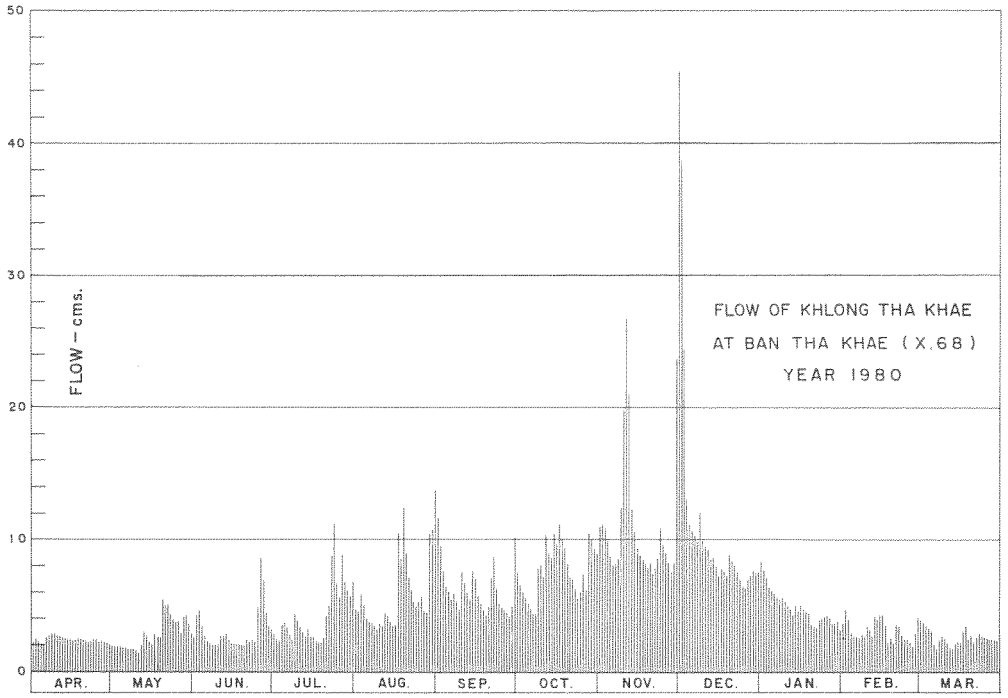
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.67	0.79	0.83	1.06	1.60	1.25	1.54	3.15	1.35	0.93	0.96	
2	0.74	0.67	0.98	0.77	1.01	1.46	1.23	1.57	2.88	1.32	1.03	0.92	
3	0.71	0.66	1.02	0.74	1.13	1.32	1.14	1.55	1.88	1.29	0.98	0.91	
4	0.71	0.66	0.86	0.91	1.05	1.21	1.11	1.47	1.62	1.20	0.83	0.87	
5	0.70	0.66	0.80	0.93	0.97	1.16	1.06	1.39	1.55	1.18	0.81	0.85	
6	0.78	0.66	0.76	0.91	0.94	1.11	1.05	1.33	1.53	1.14	0.81	0.68	
7	0.81	0.66	0.72	0.82	0.93	1.14	1.00	1.34	1.51	1.13	0.80	0.66	
8	0.81	0.66	0.71	0.78	0.90	1.08	0.99	1.37	1.48	1.11	0.83	0.77	
9	0.80	0.66	0.71	0.99	0.88	1.03	1.32	1.60	1.62	1.13	0.79	0.80	
10	0.78	0.65	0.70	0.94	0.91	1.29	1.33	1.81	1.48	1.11	0.89	0.77	
11	0.77	0.63	0.79	0.90	0.89	1.25	1.19	2.42	1.44	1.06	0.87	0.78	
12	0.75	0.72	0.80	0.84	1.00	1.12	1.51	2.05	1.43	1.05	0.80	0.69	
13	0.75	0.83	0.83	0.80	0.98	1.09	1.41	1.65	1.39	1.00	0.97	0.67	
14	0.74	0.79	0.75	0.88	0.91	1.31	1.39	1.54	1.38	1.06	0.96	0.71	
15	0.75	0.72	0.72	0.81	0.89	1.27	1.52	1.45	1.33	1.01	0.99	0.75	
16	0.74	0.71	0.70	0.80	0.90	1.16	1.47	1.41	1.28	1.06	1.01	0.73	
17	0.75	0.79	0.70	0.76	1.50	1.09	1.57	1.35	1.32	1.02	0.98	0.84	
18	0.78	0.77	0.70	0.73	1.38	1.04	1.48	1.37	1.31	1.01	0.74	0.89	
19	0.77	0.78	0.69	0.73	1.65	1.00	1.44	1.32	1.28	1.01	0.77	0.77	
20	0.75	1.10	0.69	0.78	1.45	0.97	1.35	1.37	1.40	0.92	0.74	0.80	
21	0.74	1.05	0.77	0.98	1.28	1.28	1.28	1.29	1.35	0.90	0.90	0.75	
22	0.72	1.06	0.73	1.06	1.14	1.38	1.25	1.32	1.34	0.88	0.89	0.79	
23	0.75	0.97	0.77	1.38	1.06	1.17	1.19	1.38	1.29	0.97	0.93	0.82	
24	0.76	0.95	0.73	1.56	1.05	1.08	1.12	1.55	1.26	0.97	0.90	0.81	
25	0.75	0.92	1.11	1.26	1.09	1.03	1.17	1.44	1.21	0.98	0.89	0.80	
26	0.72	0.92	1.33	1.12	1.12	1.01	1.29	1.42	1.20	0.98	0.87	0.78	
27	0.73	0.94	1.36	1.40	1.01	1.00	1.19	1.36	1.22	0.96	0.83	0.78	
28	0.73	0.97	1.05	1.23	1.00	0.98	1.58	1.30	1.25	0.91	1.07	0.76	
29	0.69	0.95	0.92	1.15	1.52	1.05	1.56	1.33	1.36	0.93		0.76	
30	0.69	0.90	0.85	1.12	1.54	1.50	1.43	1.50	1.38	0.94		0.70	
31		0.83		1.22	1.73		1.40		1.37	0.86		0.70	
MEAN	0.75	0.80	0.83	0.97	1.12	1.17	1.30	1.49	1.50	1.05	0.89	0.78	
MAX	0.81	1.10	1.36	1.56	1.73	1.60	1.58	2.42	3.15	1.35	1.07	0.96	3.15
MIN	0.69	0.63	0.69	0.73	0.88	0.97	0.99	1.29	1.20	0.86	0.74	0.66	0.63

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.48 M (A.D.), AT 12.00 HOURS, ON DEC 1, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — M (A.D.)

LEFT BANK ELEVATION — 5.76 M (A.D.)

RIGHT BANK ELEVATION — 5.76 M (A.D.), DRAINAGE AREA — 298 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.21	1.79	2.63	2.94	5.00	11.70	7.00	10.80	45.35	8.25	3.77	4.04	
2	2.28	1.79	4.22	2.49	4.50	9.68	6.76	11.25	37.96	7.86	4.70	3.68	
3	2.07	1.72	4.60	2.28	5.70	7.86	5.80	10.95	16.26	7.48	4.22	3.59	
4	2.07	1.72	3.18	3.59	4.90	6.52	5.50	9.81	12.00	6.40	2.94	3.26	
5	2.00	1.72	2.70	3.77	4.13	6.00	5.00	8.77	10.95	6.20	2.78	3.10	
6	2.56	1.72	2.42	3.59	3.86	5.50	4.90	7.99	10.65	5.80	2.78	1.86	
7	2.78	1.72	2.14	2.86	3.77	5.80	4.40	8.12	10.35	5.70	2.70	1.72	
8	2.78	1.72	2.07	2.56	3.50	5.20	4.31	8.51	9.94	5.50	2.94	2.49	
9	2.70	1.72	2.07	4.31	3.34	4.70	7.86	11.70	12.00	5.70	2.63	2.70	
10	2.56	1.65	2.00	3.86	3.59	7.48	7.99	15.07	9.94	5.50	3.42	2.49	
11	2.49	1.51	2.63	3.50	3.42	7.00	6.30	26.74	9.42	5.00	3.26	2.56	
12	2.35	2.14	2.70	3.02	4.40	5.60	10.35	19.35	9.29	4.90	2.70	1.93	
13	2.35	2.94	2.94	2.70	4.22	5.30	9.03	12.45	8.77	4.40	4.13	1.79	
14	2.28	2.63	2.35	3.34	3.59	7.73	8.77	10.80	8.64	5.00	4.04	2.07	
15	2.35	2.14	2.14	2.78	3.42	7.24	10.50	9.55	7.99	4.50	4.31	2.35	
16	2.28	2.07	2.00	2.70	3.50	6.00	9.81	9.03	7.36	5.00	4.50	2.21	
17	2.35	2.63	2.00	2.42	10.20	5.30	11.25	8.25	7.86	4.60	4.22	3.02	
18	2.56	2.49	2.00	2.21	8.64	4.80	9.94	8.51	7.73	4.50	2.28	3.42	
19	2.49	2.56	1.93	2.21	12.45	4.40	9.42	7.86	7.36	4.50	2.49	2.49	
20	2.35	5.40	1.93	2.56	9.55	4.13	8.25	8.51	8.90	3.68	2.28	2.70	
21	2.28	4.90	2.49	4.22	7.36	7.36	7.36	7.48	8.25	3.50	3.50	2.35	
22	2.14	5.00	2.21	5.00	5.80	8.64	7.00	7.86	8.12	3.34	3.42	2.63	
23	2.35	4.13	2.49	8.64	5.00	6.10	6.30	8.64	7.48	4.13	3.77	2.86	
24	2.42	3.95	2.21	11.10	4.90	5.20	5.60	10.95	7.12	4.13	3.50	2.78	
25	2.35	3.68	5.50	7.12	5.30	4.70	6.10	9.42	6.52	4.22	3.42	2.70	
26	2.14	3.68	7.99	5.60	5.60	4.50	7.48	9.16	6.40	4.22	3.26	2.56	
27	2.21	3.02	8.38	8.90	4.50	4.40	6.30	8.38	6.64	4.04	2.94	2.56	
28	2.21	4.13	4.90	6.76	4.40	4.22	11.40	7.60	7.00	3.59	5.10	2.42	
29	1.93	4.22	3.68	5.90	10.50	4.90	11.10	7.99	8.38	3.77		2.42	
30	1.93	3.50	3.10	5.60	10.80	10.20	9.29	10.20	8.64	3.86		2.00	
31		2.94		6.64	13.71		8.90		8.51	3.18		2.00	
TOTAL	69.82	86.93	93.60	135.17	183.55	188.16	239.97	311.70	341.78	152.45	96.00	80.75	1979.88 CMSDAY
MEAN	2.33	2.80	3.12	4.36	5.92	6.27	7.74	10.39	11.03	4.92	3.43	2.60	5.42 CMS
MAX	2.78	5.40	8.38	11.10	13.71	11.70	11.40	26.74	45.35	8.25	5.10	4.04	45.35 CMS
MIN	1.93	1.51	1.93	2.21	3.34	4.13	4.31	7.48	6.40	3.18	2.28	1.72	1.51 CMS
RUNOFF	6.032	7.511	8.087	11.679	15.859	16.257	20.733	26.931	29.530	13.172	8.294	6.977	171.061 MCM

MOMENTARY PEAK 55.08 CMS, AT 3.48 M (A.D), AT 12.00 HOURS, ON DEC 1, 1980

RUNOFF YIELD 18.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 184.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG BANG KAEO AT BAN KHUAN IN NO MO, PHATTHALUNG (X.109)

LOCATION — LAT. 7°-20'-36" N., LONG. 100°-03'-33" E., AT BAN KHUAN IN NOMO, AMPHOE KHAO CHAI SON, PHATTHALUNG.

DRAINAGE AREA — 133 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — INFRONT OF THE HEALTH OFFICE.

ELEVATION — +8.495 M.(A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 164 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING MAR.1-31,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

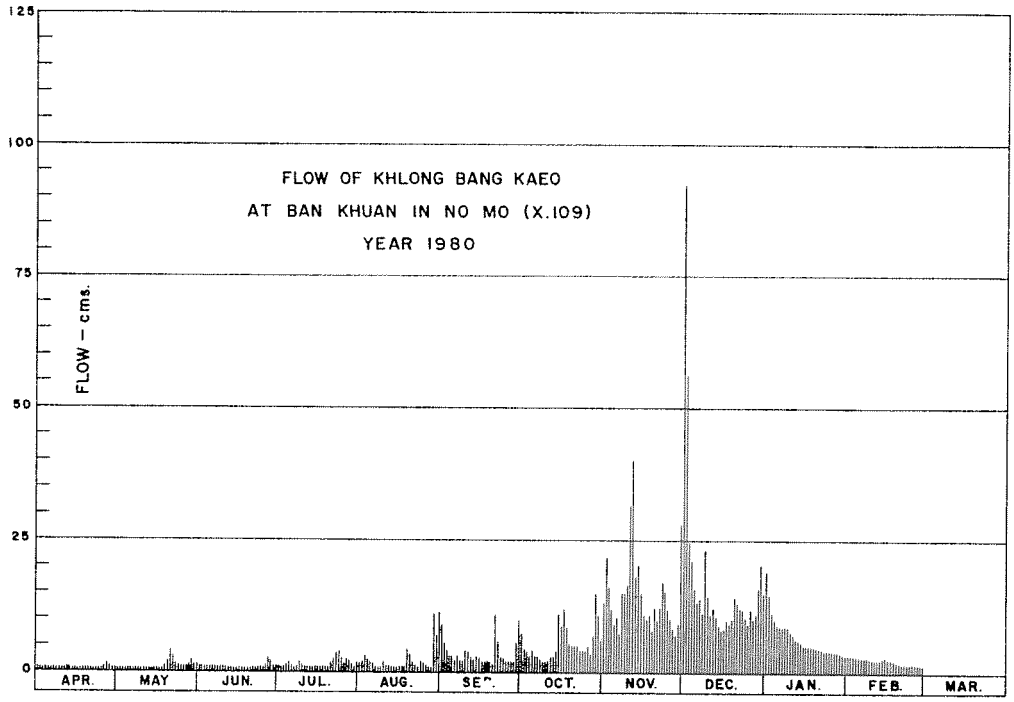
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.76	0.81	0.81	0.88	1.52	1.36	1.56	4.35	2.12	1.10	*******	
2	0.73	0.76	0.79	0.79	0.94	1.27	1.22	2.44	2.97	1.91	1.13	*******	
3	0.73	0.76	0.79	0.78	1.05	1.16	1.17	1.78	2.33	1.70	1.10	*******	
4	0.75	0.76	0.78	0.88	0.97	1.09	1.14	1.66	2.20	1.61	1.07	*******	
5	0.74	0.76	0.77	0.95	0.91	1.09	1.16	1.54	1.96	1.55	1.06	*******	
6	0.74	0.75	0.77	0.84	0.88	1.04	1.13	1.62	1.81	1.52	1.05	*******	
7	0.76	0.75	0.76	0.80	0.84	1.08	1.08	1.46	1.84	1.58	1.04	*******	
8	0.75	0.75	0.76	0.79	0.82	1.01	1.04	1.98	1.71	1.48	1.03	*******	
9	0.74	0.75	0.77	0.96	0.83	0.97	1.03	1.89	2.28	1.57	1.02	*******	
10	0.74	0.75	0.81	0.80	0.94	1.21	1.02	2.03	1.83	1.44	1.01	*******	
11	0.73	0.76	0.78	0.80	0.86	1.13	1.05	2.91	1.71	1.42	1.01	*******	
12	0.72	0.79	0.77	0.78	0.83	1.06	1.11	2.37	1.72	1.39	1.00	*******	
13	0.72	0.79	0.77	0.78	0.83	1.02	1.07	2.06	1.62	1.37	1.00	*******	
14	0.71	0.77	0.77	0.77	0.83	1.12	1.17	2.16	1.56	1.33	1.00	*******	
15	0.73	0.76	0.76	0.77	0.87	1.13	1.68	1.86	1.52	1.31	1.06	*******	
16	0.76	0.78	0.76	0.76	0.83	1.03	1.55	1.71	1.52	1.28	1.00	*******	
17	0.77	0.77	0.77	0.85	0.87	0.99	1.75	1.60	1.61	1.28	0.99	*******	
18	0.74	0.76	0.85	0.77	0.87	0.96	1.45	1.68	1.55	1.26	0.98	*******	
19	0.71	0.77	0.78	0.76	1.17	0.94	1.31	1.51	1.63	1.24	0.97	*******	
20	0.75	0.95	0.77	0.77	0.94	0.92	1.26	1.73	1.84	1.23	0.95	*******	
21	0.77	1.17	0.81	0.94	0.88	1.63	1.27	1.61	1.80	1.22	0.94	*******	
22	0.75	0.92	0.81	1.03	0.86	1.36	1.27	1.74	1.76	1.20	0.93	*******	
23	0.77	0.84	0.78	1.11	0.83	1.12	1.22	2.01	1.75	1.19	0.93	*******	
24	0.75	0.81	0.76	1.17	0.95	1.06	1.18	1.96	1.61	1.17	0.92	*******	
25	0.74	0.83	0.79	0.94	0.91	1.00	1.23	1.72	1.55	1.16	0.92	*******	
26	0.82	0.83	0.93	0.88	0.90	0.99	1.32	1.60	1.73	1.15	0.92	*******	
27	0.90	0.81	1.01	1.00	0.86	0.98	1.22	1.49	1.61	1.13	0.91	*******	
28	0.87	0.89	0.97	0.94	0.86	1.03	1.40	1.45	1.71	1.12	0.95	*******	
29	0.77	0.95	0.82	0.88	1.65	1.30	1.89	1.55	2.17	1.10		*******	
30	0.73	0.82	0.83	0.86	1.40	1.58	1.53	2.02	1.91	1.10		*******	
31		0.88		0.93	1.68		1.37		1.89	1.09		*******	
MEAN	0.75	0.81	0.80	0.87	0.96	1.13	1.28	1.82	1.90	1.36	1.00	*******	
MAX	0.90	1.17	1.01	1.17	1.68	1.63	1.89	2.91	4.35	2.12	1.13	*******	4.35
MIN	0.71	0.75	0.76	0.76	0.82	0.92	1.02	1.45	1.52	1.09	0.91	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.65 M (A.D), AT 6.00 HOURS, ON DEC 1, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.40 M (A.D)

LEFT BANK ELEVATION 10.41 M (A.D)

RIGHT BANK ELEVATION 8.28 M (A.D), DRAINAGE AREA 133 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.64	0.88	0.88	1.44	8.92	6.44	9.56	92.45	19.82	3.40	*******	
2	0.52	0.64	0.76	0.76	1.92	5.24	4.64	27.06	41.84	15.60	3.70	*******	
3	0.52	0.64	0.76	0.72	2.90	4.00	4.10	13.24	24.49	11.60	3.40	*******	
4	0.60	0.64	0.72	1.44	2.16	3.30	3.80	11.16	21.50	10.36	3.10	*******	
5	0.56	0.64	0.68	2.00	1.68	3.30	4.60	9.24	16.60	9.40	3.00	*******	
6	0.56	0.60	0.68	1.12	1.44	2.80	3.70	10.52	13.78	8.92	2.90	*******	
7	0.64	0.60	0.64	0.80	1.12	3.20	3.20	7.96	14.32	9.88	2.80	*******	
8	0.60	0.60	0.64	0.76	0.96	2.50	2.80	15.04	11.98	8.28	2.70	*******	
9	0.56	0.60	0.68	2.08	1.04	2.16	2.70	15.22	23.34	9.72	2.60	*******	
10	0.56	0.60	0.88	0.80	1.92	4.52	2.60	18.00	14.14	7.64	2.50	*******	
11	0.52	0.64	0.72	0.80	1.28	3.70	2.90	39.92	11.98	7.32	2.50	*******	
12	0.48	0.76	0.68	0.72	1.04	3.00	3.50	25.41	12.16	6.86	2.40	*******	
13	0.48	0.76	0.68	0.72	1.04	2.60	3.10	18.60	10.52	6.58	2.40	*******	
14	0.44	0.68	0.68	0.68	1.04	3.60	4.10	20.66	9.56	6.02	2.40	*******	
15	0.52	0.64	0.64	0.68	1.36	3.70	11.48	14.68	8.92	5.74	3.00	*******	
16	0.64	0.72	0.64	0.64	1.04	2.70	9.40	11.98	8.92	5.36	2.40	*******	
17	0.68	0.68	0.68	1.20	1.36	2.32	12.70	10.20	10.36	5.36	2.32	*******	
18	0.56	0.64	1.20	0.68	1.36	2.08	7.80	11.48	9.40	5.12	2.24	*******	
19	0.44	0.68	0.72	0.64	4.10	1.92	5.74	8.76	10.68	4.88	2.16	*******	
20	0.60	2.00	0.68	0.68	1.92	1.76	5.12	12.34	14.32	4.76	2.00	*******	
21	0.68	4.10	0.88	1.92	1.44	10.68	5.24	10.36	13.60	4.64	1.92	*******	
22	0.60	1.76	0.88	2.70	1.28	6.44	5.24	12.52	12.88	4.40	1.84	*******	
23	0.68	1.12	0.72	3.50	1.04	3.60	4.64	17.60	12.70	4.30	1.84	*******	
24	0.60	0.88	0.64	4.10	2.00	3.00	4.20	16.60	10.36	4.10	1.76	*******	
25	0.56	1.04	0.76	1.92	1.68	2.40	4.76	12.16	9.40	4.00	1.76	*******	
26	0.96	1.04	1.84	1.44	1.60	2.32	5.88	10.20	12.34	3.90	1.76	*******	
27	1.60	0.88	2.50	2.40	1.28	2.24	4.64	8.44	10.36	3.70	1.68	*******	
28	1.36	1.52	2.16	1.92	1.28	2.70	7.00	7.80	11.98	3.60	2.00	*******	
29	0.68	2.00	0.96	1.44	11.00	5.60	15.22	9.40	20.87	3.40		*******	
30	0.52	0.96	1.04	1.28	7.00	9.88	9.08	17.80	15.60	3.40		*******	
31		1.44		1.84	11.48		6.58		15.22	3.30		*******	
TOTAL	19.24	31.14	27.02	43.26	73.20	116.18	176.30	433.91	526.57	212.16	68.48	*******	******** CMSDAY
MEAN	0.64	1.00	0.90	1.40	2.36	3.87	5.69	14.46	16.99	6.84	2.45	*******	******* CMS
MAX	1.60	4.10	2.50	4.10	11.48	10.68	15.22	39.92	92.45	19.82	3.70	*******	92.45 CMS
MIN	0.44	0.60	0.64	0.64	0.96	1.76	2.60	7.80	8.92	3.30	1.68	*******	******* CMS
RUNOFF	1.662	2.690	2.335	3.738	6.324	10.038	15.232	37.490	45.496	18.331	5.917	*******	******** MCM

MOMENTARY PEAK 105.05 CMS, AT 4.65 M (A.D), AT 6.00 HOURS, ON DEC 1, 1980
RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 789.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG NA THAWI AT BAN PA KAN, SONGKHLA (X.42)

LOCATION — LAT. 6°-41'-13" N., LONG. 100°-41'-21" E., ON LEFT BANK AT BAN PA KAN, TAMBON THA PRADU, AMPHOE NA THAWI, SONGKHLA.

DRAINAGE AREA — 443 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 7 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +7.013 M. (A.D.)

GAGE READING FREQUENCY — 3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1976-1977

RATED BY FLOAT — -

RATED BY CURRENT METER — 1976-1977

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 129 DISCHARGE MEASUREMENTS MADE IN 1977.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

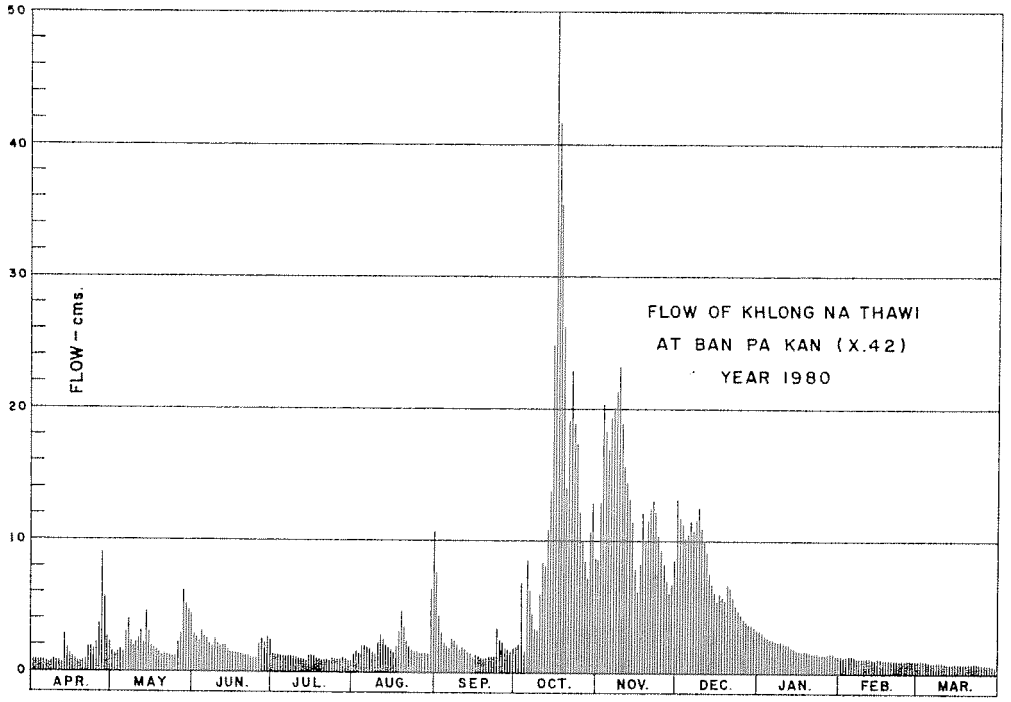
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.53	0.84	1.19	0.76	0.72	2.01	0.95	2.17	2.74	1.25	0.74	0.61	
2	0.52	0.77	1.14	0.73	0.83	1.49	0.99	2.68	2.58	1.22	0.72	0.59	
3	0.51	0.88	1.07	0.76	0.79	1.23	1.95	3.49	2.51	1.18	0.74	0.58	
4	0.50	0.90	1.20	0.75	0.97	1.07	0.86	3.29	2.35	1.13	0.75	0.58	
5	0.50	0.80	1.15	0.76	0.98	0.99	1.81	3.16	2.44	1.10	0.73	0.56	
6	0.48	1.14	1.11	0.74	0.94	0.97	2.17	3.39	2.54	1.09	0.71	0.54	
7	0.47	1.41	1.01	0.70	0.92	1.12	1.65	3.47	2.47	1.08	0.69	0.53	
8	0.53	1.12	0.93	0.70	0.87	1.02	1.30	3.54	2.54	1.06	0.67	0.52	
9	0.56	0.93	1.04	0.69	0.79	0.94	1.27	3.74	2.66	1.04	0.67	0.50	
10	0.54	1.00	0.98	0.65	0.96	0.91	1.77	3.35	2.53	1.04	0.65	0.50	
11	0.51	1.06	0.93	0.65	1.23	0.95	2.14	3.04	2.37	1.02	0.67	0.49	
12	0.48	1.24	0.95	0.62	1.15	0.87	2.12	2.90	2.24	1.00	0.65	0.48	
13	1.18	1.05	0.95	0.61	1.00	0.82	2.39	2.76	2.02	0.98	0.64	0.48	
14	0.94	1.53	0.86	0.59	0.95	0.78	2.69	2.55	1.86	0.94	0.66	0.47	
15	0.78	1.17	0.81	0.72	0.90	0.73	3.86	2.13	1.77	0.92	0.65	0.46	
16	0.60	0.97	0.76	0.75	0.85	0.77	5.97	1.84	1.72	0.89	0.64	0.45	
17	0.56	0.93	0.77	0.75	0.97	0.76	5.31	2.15	1.77	0.90	0.64	0.45	
18	0.53	0.86	0.78	0.67	1.28	0.72	4.34	2.62	1.75	0.91	0.63	0.45	
19	0.52	0.79	0.73	0.62	1.57	0.65	3.44	2.36	1.72	0.89	0.63	0.45	
20	0.50	0.74	0.72	0.61	1.28	0.65	2.87	2.55	1.90	0.85	0.62	0.45	
21	0.64	0.76	0.71	0.63	1.07	0.71	3.29	2.64	1.87	0.83	0.60	0.45	
22	0.97	0.74	0.69	0.62	0.93	0.74	3.48	2.72	1.71	0.84	0.59	0.46	
23	0.87	0.69	0.67	0.63	0.86	0.71	3.35	2.64	1.58	0.84	0.57	0.46	
24	0.91	0.68	0.63	0.65	0.85	1.28	3.18	2.41	1.52	0.83	0.57	0.45	
25	1.07	0.70	0.68	0.64	0.87	1.10	2.69	2.30	1.46	0.81	0.59	0.45	
26	1.39	1.07	1.04	0.61	0.82	1.06	2.33	2.11	1.41	0.81	0.59	0.44	
27	2.23	1.20	1.10	0.65	0.81	0.96	2.16	1.94	1.36	0.82	0.58	0.44	
28	1.80	1.82	1.00	0.62	0.81	0.92	1.99	1.83	1.35	0.88	0.59	0.41	
29	1.13	1.64	0.91	0.61	0.83	0.87	2.21	1.91	1.34	0.82		0.40	
30	0.99	1.61	0.84	0.56	1.58	0.96	2.72	2.18	1.32	0.77		0.39	
31		1.50		0.56	2.57		2.25		1.29	0.74		0.38	
MEAN	0.80	1.05	0.91	0.67	1.03	0.96	2.56	2.66	1.96	0.95	0.65	0.48	
MAX	2.23	1.82	1.20	0.76	2.57	2.01	5.97	3.74	2.74	1.25	0.75	0.61	5.97
MIN	0.47	0.69	0.63	0.56	0.72	0.65	0.86	1.83	1.29	0.74	0.57	0.38	0.38

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.11 M (A.D.), AT 12.00 HOURS, ON OCT 16, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — 0.04 M (A.D.)

LEFT BANK ELEVATION — 6.57 M (A.D.)

RIGHT BANK ELEVATION — 6.82 M (A.D.), DRAINAGE AREA — 443 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.86	1.54	2.86	1.32	1.24	7.37	1.92	8.56	13.12	3.15	1.28	1.02	
2	0.84	1.34	2.66	1.26	1.50	4.35	2.06	12.64	11.84	3.00	1.24	0.98	
3	0.82	1.68	2.38	1.32	1.38	3.05	6.95	20.39	11.28	2.82	1.28	0.96	
4	0.80	1.75	2.90	1.30	1.99	2.38	1.61	18.30	10.00	2.62	1.30	0.96	
5	0.80	1.40	2.70	1.32	2.03	2.06	6.06	17.00	10.72	2.50	1.26	0.92	
6	0.76	2.66	2.54	1.28	1.89	1.99	8.56	19.30	11.52	2.46	1.22	0.88	
7	0.74	3.95	2.14	1.20	1.82	2.58	5.15	20.17	10.96	2.42	1.18	0.86	
8	0.86	2.58	1.85	1.20	1.64	2.18	3.40	20.94	11.52	2.34	1.14	0.84	
9	0.92	1.85	2.26	1.18	1.38	1.89	3.25	23.14	12.48	2.26	1.14	0.80	
10	0.88	2.10	2.03	1.10	1.96	1.78	5.82	18.90	11.44	2.26	1.10	0.80	
11	0.82	2.34	1.85	1.10	2.90	1.92	8.32	15.80	10.16	2.18	1.14	0.78	
12	0.76	3.10	1.92	1.04	2.70	1.64	8.16	14.40	9.12	2.10	1.10	0.76	
13	2.82	2.30	1.92	1.02	2.10	1.47	10.32	13.28	7.44	2.03	1.08	0.76	
14	1.89	4.55	1.61	0.98	1.92	1.36	12.72	11.60	6.36	1.89	1.12	0.74	
15	1.36	2.78	1.43	1.24	1.75	1.26	24.46	8.24	5.82	1.82	1.10	0.72	
16	1.00	1.99	1.32	1.32	1.57	1.34	51.11	6.24	5.52	1.71	1.08	0.70	
17	0.92	1.85	1.34	1.30	1.99	1.32	42.53	8.40	5.82	1.75	1.08	0.70	
18	0.86	1.61	1.36	1.14	3.30	1.24	29.98	12.16	5.70	1.78	1.06	0.70	
19	0.84	1.38	1.26	1.04	4.75	1.16	19.84	10.08	5.52	1.71	1.06	0.70	
20	0.80	1.28	1.24	1.02	3.30	1.10	14.16	11.60	6.60	1.57	1.04	0.70	
21	1.08	1.32	1.22	1.06	2.38	1.22	18.30	12.32	6.42	1.50	1.00	0.70	
22	1.99	1.28	1.18	1.04	1.85	1.28	20.28	12.96	5.46	1.54	0.98	0.72	
23	1.99	1.18	1.14	1.06	1.61	1.22	18.90	12.32	4.80	1.54	0.94	0.72	
24	1.78	1.16	1.06	1.10	1.57	3.30	17.20	10.48	4.50	1.50	0.94	0.70	
25	2.38	1.20	1.16	1.08	1.64	2.50	12.72	9.60	4.20	1.43	0.98	0.70	
26	3.85	2.38	2.26	1.02	1.47	2.34	9.84	8.08	3.95	1.43	0.98	0.68	
27	9.04	2.90	2.50	1.10	1.43	1.96	8.48	6.88	3.70	1.47	0.96	0.68	
28	6.00	6.12	2.10	1.04	1.43	1.82	7.23	6.18	3.65	1.68	0.98	0.62	
29	2.82	5.10	1.78	1.02	1.50	1.64	8.88	6.67	3.60	1.47		0.60	
30	2.06	4.95	1.54	0.92	4.80	1.96	12.96	8.64	3.50	1.34		0.58	
31		4.40		0.92	11.76		9.20		3.35	1.28		0.56	
TOTAL	53.34	76.02	55.51	35.04	74.55	62.68	410.37	385.27	230.07	60.55	30.76	23.54	1497.70 CMSDAY
MEAN	1.78	2.45	1.85	1.13	2.40	2.09	13.24	12.84	7.42	1.95	1.10	0.76	4.10 CMS
MAX	9.04	6.12	2.90	1.32	11.76	7.37	51.11	23.14	13.12	3.15	1.30	1.02	51.11 CMS
MIN	0.74	1.16	1.06	0.92	1.24	1.10	1.61	6.18	3.35	1.28	0.94	0.56	0.56 CMS
RUNOFF	4.609	6.568	4.796	3.027	6.441	5.416	35.456	33.287	19.878	5.232	2.658	2.034	129.401 MCM

MOMENTARY PEAK 53.15 CMS, AT 6.11 M (A.D), AT 12.00 HOURS, ON OCT 16, 1980

RUNOFF YIELD 9.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 119.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG RATTAPHUM AT BAN KAMPHAENG PHET, SONGKHLA (X.67)

LOCATION — LAT. 7°-08'-35" N., LONG. 100°-17'-20" E., ON RIGHT BANK ABOUT 3 METERS UPSTREAM FROM THE BRIDGE OF PHATTHALUNG-SONGKHLA HIGHWAY, AMPHOE RATTAPHUM, SONGKHLA.

DRAINAGE AREA — 272 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — B.M.1 ON RIGHT BANK NEAR THE ABUTMENT OF THE BRIDGE, B.M.2 ON LEFT BANK NEAR THE ABUTMENT OF THE BRIDGE.

ELEVATION — B.M.1 =+3.415 M. (A.D.), B.M.2 =+3.307 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1972

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1972

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 283 DISCHARGE MEASUREMENTS MADE DURING 1967-1972. FLOW REGULATED BY RATTAPHUM WEIR FOR IRRIGATION OF ABOUT 10,688 HECTARES.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

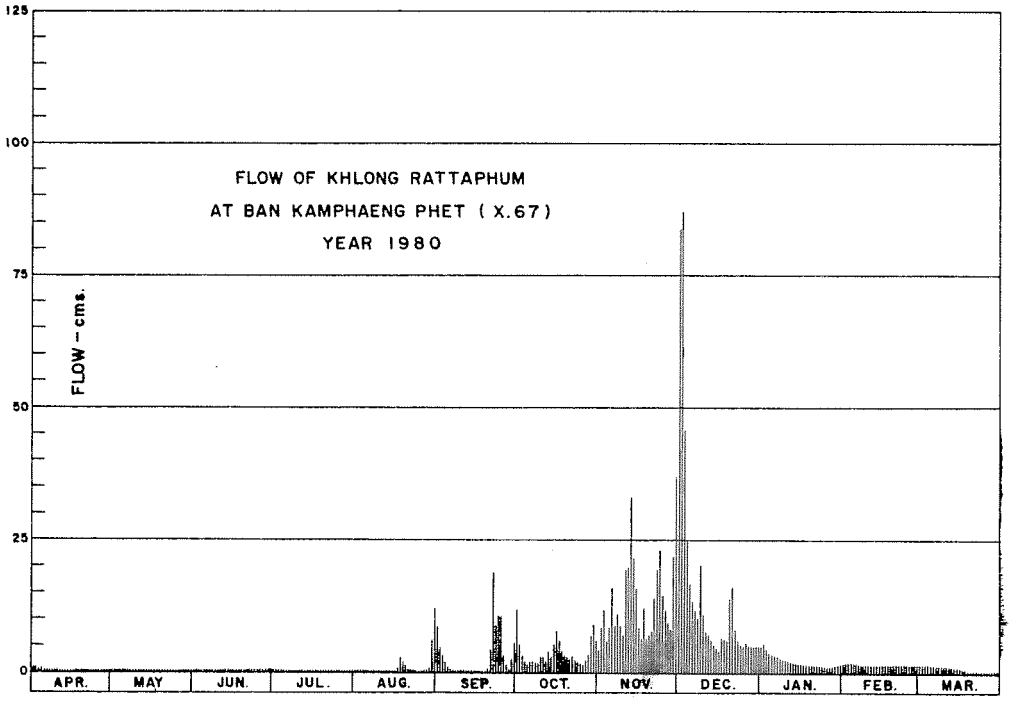
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.04	-0.39	-0.43	-0.38	-0.32	0.89	0.94	0.42	3.60	0.47	0.08	0.11	
2	-0.07	-0.40	-0.37	-0.33	-0.38	0.48	0.40	0.96	3.72	0.50	0.13	0.07	
3	-0.24	-0.40	-0.27	-0.39	-0.31	0.27	0.22	0.92	2.57	0.38	0.15	0.05	
4	-0.13	-0.29	-0.24	-0.37	-0.24	0.08	0.15	0.61	1.61	0.33	0.12	0.03	
5	-0.27	-0.37	-0.42	-0.31	-0.18	-0.02	0.09	0.88	1.25	0.29	0.11	0.03	
6	-0.30	-0.40	-0.41	-0.27	-0.34	-0.06	0.13	1.21	1.03	0.26	0.10	0.03	
7	-0.30	-0.38	-0.43	-0.32	-0.40	-0.04	0.12	0.78	0.91	0.26	0.10	0.02	
8	-0.27	-0.37	-0.38	-0.34	-0.45	-0.07	0.06	0.91	0.84	0.23	0.11	0.02	
9	-0.16	-0.32	-0.33	-0.36	-0.41	-0.16	0.06	0.79	1.38	0.21	0.09	0.01	
10	-0.14	-0.39	-0.29	-0.39	-0.41	-0.18	0.24	0.64	1.00	0.18	0.07	0.02	
11	-0.22	-0.36	-0.30	-0.39	-0.29	-0.08	0.31	1.36	0.74	0.16	0.09	0.01	
12	-0.34	-0.24	-0.35	-0.40	-0.37	-0.13	0.19	1.41	0.68	0.15	0.11	0.01	
13	-0.33	-0.21	-0.29	-0.39	-0.36	-0.20	0.40	1.97	0.59	0.12	0.12	-0.07	
14	-0.38	-0.14	-0.30	-0.33	-0.39	-0.25	0.28	1.49	0.52	0.09	0.10	-0.14	
15	-0.33	-0.32	-0.36	-0.35	-0.42	-0.28	0.56	1.18	0.46	0.10	0.10	-0.15	
16	-0.33	-0.35	-0.31	-0.36	-0.38	-0.28	0.70	0.78	0.40	0.08	0.10	-0.15	
17	-0.34	-0.41	-0.26	-0.43	-0.11	-0.32	0.57	0.67	0.59	0.06	0.06	-0.16	
18	-0.32	-0.41	-0.26	-0.43	0.24	-0.37	0.45	0.99	0.55	0.05	0.04	-0.17	
19	-0.38	-0.37	-0.28	-0.42	0.12	-0.39	0.32	0.64	0.54	0.05	0.04	-0.21	
20	-0.38	-0.29	-0.30	-0.42	-0.01	-0.41	0.26	0.68	1.06	0.10	0.04	-0.25	
21	-0.31	-0.16	-0.31	-0.38	-0.20	0.31	0.22	0.69	1.19	0.07	0.05	-0.27	
22	-0.15	-0.19	-0.29	-0.34	-0.32	1.35	0.30	1.10	0.78	0.05	0.05	-0.27	
23	-0.17	-0.28	-0.22	-0.38	-0.39	0.39	0.17	1.37	0.62	0.04	0.05	-0.27	
24	-0.28	-0.37	-0.35	-0.27	-0.37	0.55	0.13	1.54	0.49	0.03	0.07	-0.28	
25	-0.28	-0.29	-0.28	-0.31	-0.24	0.50	0.11	1.11	0.46	0.02	0.07	-0.28	
26	-0.38	-0.31	-0.31	-0.40	-0.21	0.13	0.13	0.96	0.47	0.01	0.06	-0.29	
27	-0.29	-0.34	-0.14	-0.37	-0.25	-0.02	0.12	0.76	0.46	0.02	0.07	-0.28	
28	-0.35	-0.40	-0.21	-0.39	-0.31	-0.08	0.28	0.74	0.50	0.11	0.10	-0.30	
29	-0.32	-0.31	-0.29	-0.42	0.01	-0.06	0.73	1.28	0.48	0.10		-0.31	
30	-0.41	-0.31	-0.37	-0.33	0.58	0.56	0.77	1.93	0.47	0.10		-0.33	
31		-0.41		-0.29	0.94		0.53		0.51	0.10		-0.34	
MEAN	-0.27	-0.33	-0.31	-0.36	-0.20	0.07	0.32	1.03	0.98	0.15	0.08	-0.13	
MAX	-0.04	-0.14	-0.14	-0.27	0.94	1.35	0.94	1.97	3.72	0.50	0.15	0.11	3.72
MIN	-0.41	-0.41	-0.43	-0.43	-0.45	-0.41	0.06	0.42	0.40	0.01	0.04	-0.34	-0.45

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.77 M (A.D.), AT 9.00 HOURS, ON DEC 2, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — -0.45 M (A.D.)

LEFT BANK ELEVATION — 4.77 M (A.D.)

RIGHT BANK ELEVATION — 4.29 M (A.D.), DRAINAGE AREA — 272 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	0.00	0.00	0.00	0.00	11.04	11.88	4.52	83.00	5.07	1.48	1.67	
2	0.58	0.00	0.00	0.00	0.00	5.18	4.30	12.22	87.08	5.40	1.81	1.42	
3	0.12	0.00	0.06	0.00	0.00	2.93	2.48	11.54	49.53	4.08	1.95	1.30	
4	0.34	0.02	0.12	0.00	0.12	1.48	1.95	6.84	24.82	3.53	1.74	1.18	
5	0.06	0.00	0.00	0.00	0.24	0.88	1.54	10.88	17.45	3.11	1.67	1.18	
6	0.00	0.00	0.00	0.06	0.00	0.64	1.81	16.69	13.41	2.84	1.60	1.18	
7	0.00	0.00	0.00	0.00	0.00	0.76	1.74	9.30	11.37	2.84	1.60	1.12	
8	0.06	0.00	0.00	0.00	0.00	0.58	1.36	11.37	10.24	2.57	1.67	1.12	
9	0.28	0.00	0.00	0.00	0.00	0.28	1.36	9.45	20.00	2.39	1.54	1.06	
10	0.32	0.00	0.02	0.00	0.00	0.24	2.66	7.26	12.90	2.16	1.42	1.12	
11	0.16	0.00	0.00	0.00	0.02	0.52	3.31	19.60	8.70	2.02	1.54	1.06	
12	0.00	0.12	0.00	0.00	0.00	0.34	2.23	20.61	7.82	1.95	1.67	1.06	
13	0.00	0.18	0.02	0.00	0.00	0.20	4.30	33.25	6.57	1.74	1.74	0.58	
14	0.00	0.32	0.00	0.00	0.00	0.10	3.02	22.29	5.66	1.54	1.60	0.32	
15	0.00	0.00	0.00	0.00	0.00	0.04	6.18	16.12	4.96	1.60	1.60	0.30	
16	0.00	0.00	0.00	0.00	0.00	0.04	8.10	9.30	4.30	1.48	1.60	0.30	
17	0.00	0.00	0.08	0.00	0.38	0.00	6.31	7.68	6.57	1.36	1.36	0.28	
18	0.00	0.00	0.08	0.00	2.66	0.00	4.85	12.73	6.05	1.30	1.24	0.26	
19	0.00	0.00	0.04	0.00	1.74	0.00	3.42	7.26	5.92	1.30	1.24	0.18	
20	0.00	0.02	0.00	0.00	0.94	0.00	2.84	7.82	13.92	1.60	1.24	0.10	
21	0.00	0.28	0.00	0.00	0.20	3.31	2.48	7.96	16.31	1.42	1.30	0.06	
22	0.30	0.22	0.02	0.00	0.00	19.40	3.20	14.60	9.30	1.30	1.30	0.06	
23	0.26	0.04	0.16	0.00	0.00	4.19	2.09	19.80	6.98	1.24	1.30	0.06	
24	0.04	0.00	0.00	0.06	0.00	6.05	1.81	23.34	5.29	1.18	1.42	0.04	
25	0.04	0.00	0.00	0.00	0.12	5.40	1.67	14.79	4.96	1.12	1.42	0.04	
26	0.00	0.00	0.00	0.00	0.18	1.81	1.81	12.22	5.07	1.06	1.36	0.02	
27	0.02	0.00	0.32	0.00	0.10	0.88	1.74	9.00	4.96	1.12	1.42	0.04	
28	0.00	0.00	0.18	0.00	0.00	0.52	3.02	8.70	5.40	1.67	1.60	0.00	
29	0.00	0.00	0.02	0.00	1.06	0.64	8.55	18.02	5.18	1.60		0.00	
30	0.00	0.00	0.00	0.00	6.44	6.18	9.15	32.25	5.07	1.60		0.00	
31		0.00		0.02	11.88		5.79		5.53	1.60		0.00	
TOTAL	3.34	1.20	1.12	0.14	26.08	73.63	116.95	417.41	474.32	64.79	42.43	17.11	1238.52 CMSDAY
MEAN	0.11	0.04	0.04	0.00	0.84	2.45	3.77	13.91	15.30	2.09	1.52	0.55	3.39 CMS
MAX	0.76	0.32	0.32	0.06	11.88	19.40	11.88	33.25	87.08	5.40	1.95	1.67	87.08 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.36	4.52	4.30	1.06	1.24	0.00	0.00 CMS
RUNOFF	0.289	0.104	0.097	0.012	2.253	6.362	10.104	36.064	40.981	5.598	3.666	1.478	107.008 MCM

MOMENTARY PEAK 88.78 CMS, AT 3.77 M (A.D), AT 9.00 HOURS, ON DEC 2, 1980

RUNOFF YIELD 12.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 326.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG PHRU PHO AT BAN PHRU PHO, SONGKHLA (X.69)

LOCATION — LAT. 7°-11'-25" N., LONG. 100°-13'-26" E., ON RIGHT BANK UPSTREAM SIDE OF THE BRIDGE OF PHATTHALUNG-HAT YAI HIGHWAY AT BAN PHRU PHO, AMPHOE RATTAPHUM, SONGKHLA.

DRAINAGE AREA — 88 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=M.D.

LOCATION — ON LEFT BANK ABOUT 300 METERS FROM THE BRIDGE.

ELEVATION — +4.229 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1972

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1972

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

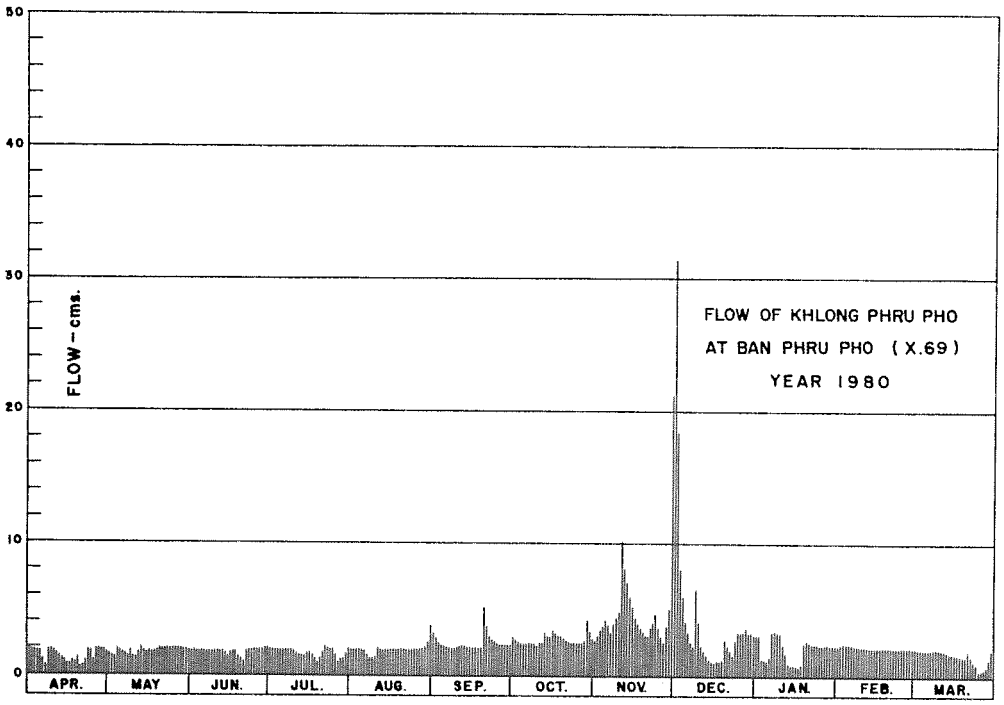
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 266 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.97	0.91	0.94	0.95	0.97	1.20	1.10	1.08	2.94	1.11	1.02	0.99	
2	0.95	0.86	0.95	0.94	0.95	1.10	1.08	1.13	2.56	1.12	1.03	0.98	
3	0.95	0.85	0.94	0.95	0.95	1.04	1.05	1.17	1.70	1.12	1.05	0.97	
4	0.94	0.96	0.93	0.94	0.95	1.00	1.03	1.17	1.45	0.84	1.03	0.96	
5	0.94	0.94	0.96	0.95	0.94	1.00	1.02	1.20	1.28	0.82	1.02	0.96	
6	0.86	0.92	0.94	0.96	0.94	1.00	1.02	1.26	1.17	0.80	1.02	0.96	
7	0.68	0.90	0.94	0.95	0.88	0.99	1.01	1.22	1.06	0.88	1.01	0.96	
8	0.95	0.88	0.94	0.94	0.83	0.99	1.01	1.16	1.00	1.15	1.01	0.95	
9	0.95	0.94	0.94	0.94	0.81	0.97	1.00	1.26	1.49	1.15	1.01	0.95	
10	0.94	0.87	0.94	0.92	0.85	0.96	1.01	1.31	1.12	1.14	1.00	0.95	
11	0.91	0.84	0.94	0.91	0.99	1.00	1.02	1.30	1.01	1.12	1.01	0.95	
12	0.86	0.94	0.94	0.89	0.95	0.98	1.05	1.65	0.96	0.87	1.01	0.95	
13	0.84	0.96	0.94	0.85	0.95	0.98	1.13	1.58	0.88	0.74	1.00	0.94	
14	0.83	0.99	0.93	0.94	0.95	0.98	1.09	1.50	0.84	0.73	1.00	0.94	
15	0.80	0.95	0.86	0.93	0.95	0.97	1.12	1.38	0.79	0.71	1.00	0.94	
16	0.71	0.93	0.92	0.92	0.95	0.97	1.15	1.28	0.77	0.71	1.01	0.94	
17	0.81	0.94	0.94	0.89	0.96	0.97	1.17	1.22	0.80	0.70	1.01	0.85	
18	0.73	0.93	0.92	0.81	0.96	0.96	1.15	1.19	0.78	0.69	1.00	0.84	
19	0.84	0.93	0.85	0.76	0.98	0.98	1.12	1.13	0.80	1.03	0.99	0.82	
20	0.70	0.94	0.80	0.83	0.97	1.36	1.09	0.84	1.08	1.07	0.98	0.84	
21	0.64	0.98	0.74	0.93	0.96	1.20	1.08	1.10	1.01	1.05	0.98	0.94	
22	0.72	0.98	0.95	1.01	0.96	1.09	1.06	1.23	0.96	1.04	0.98	0.87	
23	0.96	0.99	0.95	0.99	0.95	1.06	1.04	1.24	0.88	1.05	0.98	0.84	
24	0.95	0.96	0.95	0.98	0.96	1.05	1.03	1.32	1.08	1.03	0.97	0.78	
25	0.80	0.99	0.95	0.98	0.96	1.03	1.03	1.19	1.15	1.01	0.98	0.60	
26	0.95	0.97	0.95	0.86	0.97	1.02	1.03	1.15	1.15	1.01	0.98	0.65	
27	0.97	0.98	0.98	0.75	0.97	1.01	1.03	1.04	1.15	1.02	0.96	0.65	
28	0.96	0.98	0.99	0.83	0.98	1.01	1.08	1.18	1.19	1.03	0.99	0.67	
29	0.96	0.97	0.98	0.93	0.98	1.00	1.26	1.36	1.16	1.01		0.70	
30	0.95	0.96	0.95	0.90	1.00	1.02	1.16	2.03	1.16	1.02		0.86	
31		0.95		0.98	1.22		1.09		1.14	1.01		0.95	
MEAN	0.87	0.94	0.93	0.91	0.95	1.03	1.07	1.28	1.18	0.96	1.00	0.88	
MAX	0.97	0.99	0.99	1.01	1.22	1.36	1.26	2.03	2.94	1.15	1.05	0.99	2.94
MIN	0.64	0.84	0.74	0.75	0.81	0.96	1.00	0.84	0.77	0.69	0.96	0.60	0.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.67 M (A.D), AT 6.00 HOURS, ON DEC 1, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 6.63 M (A.D)
RIGHT BANK ELEVATION 6.59 M (A.D), DRAINAGE AREA 88 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.02	1.66	1.84	1.90	2.02	3.70	2.90	2.76	31.42	2.98	2.34	2.14	
2	1.90	1.40	1.90	1.84	1.90	2.90	2.76	3.14	22.74	3.06	2.41	2.08	
3	1.90	1.35	1.84	1.90	1.90	2.48	2.55	3.46	8.90	3.06	2.55	2.02	
4	1.84	1.96	1.78	1.84	1.90	2.20	2.41	3.46	6.00	1.30	2.41	1.96	
5	1.84	1.84	1.96	1.90	1.84	2.20	2.34	3.70	4.42	1.20	2.34	1.96	
6	1.40	1.72	1.84	1.96	1.84	2.20	2.34	4.24	3.46	1.10	2.34	1.96	
7	0.62	1.60	1.84	1.90	1.50	2.14	2.27	3.88	2.62	1.50	2.27	1.96	
8	1.90	1.50	1.84	1.84	1.25	2.14	2.27	3.38	2.20	3.30	2.27	1.90	
9	1.90	1.84	1.84	1.84	1.15	2.02	2.20	4.24	6.40	3.30	2.27	1.90	
10	1.84	1.45	1.84	1.72	1.35	1.96	2.27	4.69	3.06	3.22	2.20	1.90	
11	1.66	1.30	1.84	1.66	2.14	2.20	2.34	10.20	2.27	3.06	2.27	1.98	
12	1.40	1.84	1.84	1.55	1.90	2.08	2.55	8.25	1.96	1.45	2.27	1.90	
13	1.30	1.96	1.84	1.35	1.90	2.08	3.14	7.38	1.50	0.86	2.20	1.84	
14	1.25	2.14	1.78	1.84	1.90	2.08	2.83	6.50	1.30	0.82	2.20	1.84	
15	1.10	1.90	1.40	1.78	1.90	2.02	3.06	5.32	1.06	0.74	2.20	1.84	
16	0.74	1.78	1.72	1.72	1.90	2.02	3.30	4.42	0.98	0.74	2.27	1.84	
17	1.15	1.84	1.84	1.55	1.96	2.02	3.46	3.88	1.10	0.70	2.27	1.35	
18	0.82	1.78	1.72	1.15	1.96	1.96	3.30	3.62	1.02	0.66	2.20	1.30	
19	1.30	1.78	1.35	0.94	2.08	2.08	3.06	3.14	1.10	2.41	2.14	1.20	
20	0.70	1.84	1.10	1.25	2.02	5.14	2.83	1.30	2.76	2.69	2.08	1.30	
21	0.46	2.08	0.86	1.78	1.96	3.70	2.76	2.90	2.27	2.55	2.08	1.84	
22	0.82	2.08	1.90	2.27	1.96	2.83	2.62	3.97	1.96	2.48	2.08	1.45	
23	1.96	2.08	1.90	2.14	1.90	2.62	2.48	4.06	1.50	2.55	2.08	1.30	
24	1.90	1.96	1.90	2.08	1.96	2.55	2.41	4.78	2.76	2.41	2.02	1.02	
25	1.10	2.14	1.90	2.08	1.96	2.41	2.41	3.62	3.30	2.27	2.08	0.30	
26	1.90	2.02	1.90	1.40	2.02	2.34	2.41	3.30	3.30	2.27	2.08	0.50	
27	2.02	2.08	2.08	0.90	2.02	2.27	2.41	2.48	3.30	2.34	1.96	0.50	
28	1.96	2.08	2.14	1.25	2.08	2.27	2.76	3.54	3.62	2.41	2.14	0.58	
29	1.96	2.02	2.08	1.25	2.08	2.20	4.24	5.14	3.38	2.27		0.70	
30	1.90	1.96	1.90	1.60	2.20	2.34	3.38	13.68	3.38	2.34		1.40	
31		1.90		2.08	3.98		2.83		3.22	2.27		1.90	
TOTAL	44.56	56.88	53.51	52.26	60.33	73.15	84.89	138.43	138.26	64.31	62.02	47.58	876.18 CMSDAY
MEAN	1.49	1.83	1.78	1.69	1.95	2.44	2.74	4.61	4.46	2.07	2.21	1.53	2.40 CMS
MAX	2.02	2.14	2.14	2.27	3.98	5.14	4.24	13.68	31.42	3.30	2.55	2.14	31.42 CMS
MIN	0.46	1.30	0.86	0.90	1.15	1.96	2.20	1.30	0.98	0.66	1.96	0.30	0.30 CMS
RUNOFF	3.850	4.914	4.623	4.515	5.213	6.320	7.334	11.960	11.946	5.556	5.359	4.111	75.702 MCM

MOMENTARY PEAK 74.57 CMS, AT 3.67 M (A.D), AT 6.00 HOURS, ON DEC 1, 1980

RUNOFF YIELD 27.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 847.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG THAM AT KHUAN LANG, SONGKHLA (X.71)

LOCATION — LAT. 6°-59'-33" N., LONG. 100°-25'-57" E., ON RIGHT BANK DOWNSTREAM SIDE OF THE BRIDGE OF PHET KASEM HIGHWAY AT KHUAN LANG, AMPHOE HAT YAI, SONGKHLA.

DRAINAGE AREA — 127 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ON LEFT BANK ABOUT 12 METERS FROM THE BRIDGE.

ELEVATION — +6.569 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1961-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1961-1971

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 153 DISCHARGE MEASUREMENTS MADE DURING 1967-1971.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

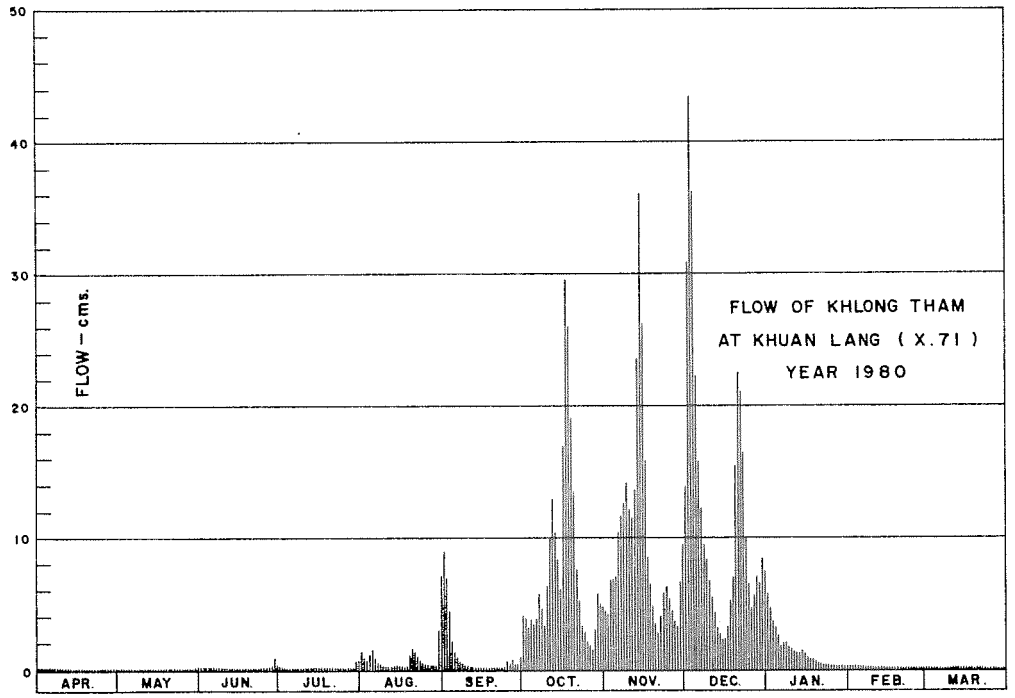
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.39	1.37	1.69	1.60	2.07	3.53	2.72	2.80	3.94	3.03	1.65	1.48	
2	1.37	1.37	1.64	1.54	1.86	3.21	2.67	2.72	5.59	2.83	1.64	1.50	
3	1.37	1.37	1.69	1.50	1.83	2.59	2.52	3.21	6.26	2.62	1.63	1.50	
4	1.35	1.38	1.61	1.47	1.99	2.30	2.66	3.23	5.85	2.51	1.60	1.46	
5	1.36	1.37	1.58	1.42	2.10	2.09	2.56	3.22	5.13	2.30	1.54	1.46	
6	1.36	1.35	1.60	1.45	1.89	1.93	2.68	3.79	4.39	2.17	1.52	1.45	
7	1.38	1.34	1.56	1.44	1.81	1.83	3.02	3.92	3.99	2.24	1.53	1.47	
8	1.35	1.35	1.53	1.44	1.66	1.76	2.78	4.06	3.64	2.25	1.54	1.47	
9	1.36	1.36	1.51	1.42	1.68	1.69	2.57	4.22	3.42	2.16	1.57	1.45	
10	1.34	1.40	1.49	1.41	1.59	1.70	3.35	3.97	3.28	2.11	1.61	1.48	
11	1.35	1.42	1.44	1.39	1.66	1.66	3.74	3.91	3.01	2.06	1.61	1.48	
12	1.36	1.44	1.43	1.38	1.62	1.58	4.09	4.17	2.75	2.03	1.54	1.48	
13	1.36	1.42	1.42	1.38	1.59	1.58	3.85	4.94	2.55	2.00	1.55	1.48	
14	1.34	1.37	1.46	1.37	1.60	1.59	3.31	5.99	2.42	2.05	1.57	1.46	
15	1.36	1.37	1.49	1.42	1.58	1.53	3.10	5.43	2.27	1.98	1.57	1.43	
16	1.35	1.42	1.50	1.51	1.56	1.53	3.96	4.39	2.29	1.91	1.55	1.42	
17	1.34	1.39	1.47	1.50	1.69	1.51	5.64	3.54	2.57	1.85	1.55	1.40	
18	1.33	1.37	1.47	1.48	1.82	1.48	5.47	3.07	3.04	1.84	1.53	1.39	
19	1.32	1.40	1.47	1.45	2.04	1.47	4.63	2.84	3.38	1.81	1.52	1.40	
20	1.32	1.42	1.45	1.43	2.16	1.44	3.91	2.60	4.33	1.77	1.54	1.39	
21	1.39	1.42	1.42	1.43	2.00	1.47	3.34	2.42	5.10	1.72	1.54	1.40	
22	1.39	1.45	1.42	1.42	1.90	1.55	2.96	2.78	4.99	1.68	1.53	1.40	
23	1.37	1.47	1.42	1.46	1.82	1.61	2.62	3.05	4.20	1.67	1.49	1.41	
24	1.37	1.46	1.50	1.47	1.75	1.54	2.40	3.14	3.65	1.66	1.47	1.40	
25	1.39	1.51	1.46	1.47	1.68	1.81	2.28	3.06	3.05	1.67	1.47	1.40	
26	1.38	1.53	1.41	1.44	1.67	1.69	2.14	2.79	2.83	1.68	1.44	1.41	
27	1.37	1.60	1.42	1.41	1.65	1.84	2.11	2.64	3.00	1.67	1.45	1.40	
28	1.36	1.82	1.60	1.40	1.67	1.70	2.59	2.53	3.26	1.66	1.49	1.39	
29	1.35	2.14	1.87	1.38	1.71	1.66	3.02	2.99	3.17	1.62		1.39	
30	1.35	1.99	1.70	1.81	2.56	1.94	2.95	3.41	3.48	1.62		1.40	
31		1.88		1.86	3.38		2.83		3.40	1.64		1.37	
MEAN	1.36	1.48	1.52	1.47	1.86	1.83	3.18	3.49	3.68	1.99	1.54	1.43	
MAX	1.39	2.14	1.87	1.86	3.38	3.53	5.64	5.99	6.26	3.03	1.65	1.50	6.26
MIN	1.32	1.34	1.41	1.37	1.56	1.44	2.11	2.42	2.27	1.62	1.44	1.37	1.32

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.37 M (A.D), AT HOURS, ON DEC 3, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED 0.05 M (A.D)

LEFT BANK ELEVATION — 7.38 M (A.D)

RIGHT BANK ELEVATION — 7.56 M (A.D), DRAINAGE AREA 127 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.07	0.39	0.30	1.51	8.91	4.20	4.60	11.82	5.78	0.35	0.18	
2	0.07	0.07	0.34	0.24	0.88	6.86	3.95	4.20	28.76	4.75	0.34	0.20	
3	0.07	0.07	0.39	0.20	0.79	3.56	3.28	6.86	43.28	3.70	0.33	0.20	
4	0.05	0.08	0.31	0.17	1.27	2.40	3.90	6.98	33.10	3.24	0.30	0.16	
5	0.06	0.07	0.28	0.12	1.60	1.57	3.44	6.92	22.76	2.40	0.24	0.16	
6	0.06	0.05	0.30	0.15	0.97	1.09	4.00	10.73	15.61	1.88	0.22	0.15	
7	0.08	0.04	0.26	0.14	0.73	0.79	5.72	11.66	12.22	2.16	0.23	0.17	
8	0.06	0.05	0.23	0.14	0.36	0.58	4.50	12.78	9.68	2.20	0.24	0.17	
9	0.06	0.06	0.21	0.12	0.38	0.39	3.48	14.08	8.14	1.84	0.27	0.15	
10	0.04	0.10	0.19	0.11	0.29	0.40	7.70	12.06	7.28	1.64	0.31	0.18	
11	0.05	0.12	0.14	0.09	0.36	0.36	10.38	11.58	5.66	1.48	0.31	0.18	
12	0.06	0.14	0.13	0.08	0.32	0.28	13.02	13.66	4.35	1.39	0.24	0.18	
13	0.06	0.12	0.12	0.08	0.29	0.28	11.15	20.70	3.40	1.30	0.25	0.18	
14	0.04	0.07	0.16	0.07	0.30	0.29	7.46	35.98	2.88	1.45	0.27	0.16	
15	0.06	0.07	0.19	0.12	0.28	0.23	6.20	26.52	2.28	1.24	0.27	0.13	
16	0.05	0.12	0.20	0.21	0.26	0.23	11.98	15.61	2.36	1.03	0.25	0.12	
17	0.04	0.09	0.17	0.20	0.39	0.21	29.54	8.98	3.48	0.85	0.25	0.10	
18	0.03	0.07	0.17	0.18	0.76	0.18	27.08	6.02	5.84	0.82	0.23	0.09	
19	0.02	0.10	0.17	0.15	1.42	0.17	17.77	4.80	7.88	0.73	0.22	0.10	
20	0.02	0.12	0.15	0.13	1.84	0.14	11.58	3.60	15.07	0.61	0.24	0.09	
21	0.09	0.12	0.12	0.13	1.30	0.17	7.64	2.88	22.40	0.46	0.24	0.10	
22	0.09	0.15	0.12	0.12	1.00	0.25	5.40	4.50	21.20	0.38	0.23	0.10	
23	0.07	0.17	0.12	0.16	0.76	0.31	3.70	5.90	13.90	0.37	0.19	0.11	
24	0.07	0.16	0.20	0.17	0.55	0.24	2.80	6.44	9.75	0.36	0.17	0.10	
25	0.09	0.21	0.16	0.17	0.38	0.73	2.32	5.96	5.90	0.37	0.17	0.10	
26	0.08	0.23	0.11	0.14	0.37	0.39	1.76	4.55	4.75	0.38	0.14	0.11	
27	0.07	0.30	0.12	0.11	0.35	0.82	1.64	3.80	5.60	0.37	0.15	0.10	
28	0.06	0.76	0.30	0.10	0.37	0.40	3.56	3.32	7.16	0.36	0.19	0.09	
29	0.05	1.76	0.91	0.08	0.43	0.36	5.72	5.55	6.62	0.32		0.09	
30	0.05	1.27	0.40	0.73	3.44	1.12	5.35	8.07	8.56	0.32		0.10	
31		0.94		0.88	7.88		4.75		8.00	0.34		0.07	
TOTAL	1.79	7.75	7.06	5.79	31.83	33.71	234.97	289.29	359.69	44.52	6.84	4.12	1027.36 CMSDAY
MEAN	0.06	0.25	0.24	0.19	1.03	1.12	7.58	9.64	11.60	1.44	0.24	0.13	2.81 CMS
MAX	0.09	1.76	0.91	0.88	7.88	8.91	29.54	35.98	43.28	5.78	0.35	0.20	43.28 CMS
MIN	0.02	0.04	0.11	0.07	0.26	0.14	1.64	2.88	2.28	0.32	0.14	0.07	0.02 CMS
RUNOFF	0.155	0.670	0.610	0.500	2.750	2.913	20.301	24.995	31.077	3.847	0.591	0.356	88.764 MCM

MOMENTARY PEAK 47.33 CMS, AT 6.37 M (A.D), AT HOURS, ON DEC 3, 1980
RUNOFF YIELD 22.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 372.68 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG U TAPHAO AT BAN BANG SALA, SONGKHLA (X.90)

LOCATION — LAT. 6°-55'-39" N., LONG. 100°-26'-37" E., ON LEFT BANK ABOUT 5 METERS UPSTREAM FROM THE BRIDGE AND NEAR THE PHATTHANA TAMBON STREET, AMPHOE HAT YAI, SONGKHLA.

DRAINAGE AREA — 1,562 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=M.D.

LOCATION — B.M.1 ON RIGHT BANK ABOUT 46 METERS FROM THE GAGE LINE, B.M.2 ON LEFT BANK ABOUT 68 METERS FROM THE GAGE LINE.

ELEVATION — B.M.1=+5.909 M. (A.D.), B.M.2=+7.651 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971-1972, 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971-1972, 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

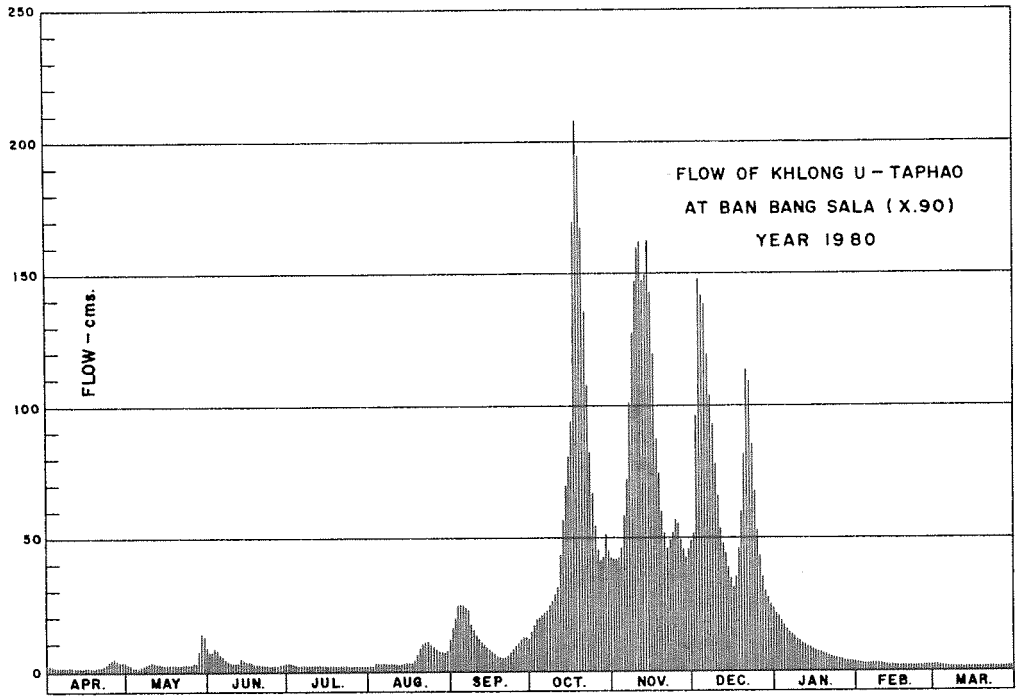
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	1.09	1.75	1.23	0.90	2.53	2.46	4.04	4.49	2.94	1.31	0.96	
2	0.82	0.99	1.70	1.19	0.91	2.70	2.66	4.01	5.98	2.83	1.30	0.96	
3	0.80	0.94	1.80	1.08	1.24	3.03	2.74	4.06	7.05	2.70	1.29	0.95	
4	0.78	0.86	1.76	1.02	1.31	3.08	2.78	4.34	6.96	2.58	1.27	0.94	
5	0.76	0.87	1.64	0.98	1.20	3.05	2.82	4.74	6.90	2.50	1.26	0.93	
6	0.74	0.89	1.54	0.98	1.29	3.03	2.88	5.22	6.55	2.38	1.25	0.92	
7	0.73	0.99	1.39	1.01	1.31	2.98	2.87	6.21	6.28	2.29	1.23	0.90	
8	0.72	1.03	1.31	1.06	1.23	2.82	3.04	6.92	5.80	2.22	1.20	0.89	
9	0.72	1.24	1.32	1.04	1.11	2.60	3.20	7.04	5.37	2.10	1.19	0.88	
10	0.71	1.28	1.28	0.99	1.02	2.43	3.35	7.23	4.98	2.05	1.18	0.87	
11	0.71	1.16	1.28	0.96	0.96	2.16	3.50	7.26	4.61	2.02	1.16	0.86	
12	0.72	1.04	1.31	0.92	1.00	2.04	4.02	7.06	4.30	1.98	1.14	0.85	
13	0.72	1.03	1.38	0.89	1.02	2.01	5.02	7.09	4.10	1.91	1.12	0.84	
14	0.73	1.09	1.39	0.86	1.20	1.91	5.42	7.27	3.86	1.87	1.11	0.83	
15	0.77	1.10	1.29	0.85	1.29	1.81	5.54	6.92	3.60	1.84	1.10	0.82	
16	0.76	1.05	1.20	0.82	1.21	1.73	5.98	6.47	3.44	1.79	1.08	0.81	
17	0.77	1.07	1.17	0.82	1.23	1.66	7.40	5.84	3.72	1.74	1.07	0.81	
18	0.77	1.00	1.12	0.82	1.30	1.59	7.74	5.22	4.38	1.71	1.05	0.80	
19	0.75	0.95	1.12	0.83	1.66	1.51	7.69	4.79	4.76	1.68	1.03	0.79	
20	0.92	0.85	1.12	0.86	1.97	1.44	7.35	4.42	5.40	1.66	1.03	0.79	
21	0.88	0.90	1.10	0.83	2.13	1.42	6.86	4.23	6.43	1.62	1.02	0.79	
22	0.78	0.89	1.05	0.83	2.10	1.39	6.21	4.25	6.34	1.59	1.01	0.79	
23	0.96	0.98	1.01	0.86	2.05	1.75	5.41	4.43	5.76	1.54	1.00	0.79	
24	1.05	1.05	1.01	0.88	2.00	1.87	4.90	4.69	5.11	1.50	0.99	0.79	
25	1.26	1.09	1.01	0.88	1.94	1.93	4.43	4.64	4.49	1.46	0.98	0.80	
26	1.38	1.27	0.98	0.90	1.86	2.13	4.17	4.39	4.00	1.41	0.97	0.79	
27	1.40	1.32	0.96	0.90	1.79	2.24	3.95	4.17	3.60	1.39	0.97	0.79	
28	1.32	1.70	1.00	0.86	1.79	2.30	4.07	4.05	3.41	1.38	0.97	0.77	
29	1.28	2.38	1.18	0.83	1.72	2.25	4.46	4.23	3.32	1.37		0.76	
30	1.20	2.27	1.22	0.84	1.77	2.22	4.33	4.31	3.16	1.35		0.76	
31		1.87		0.86	2.16		4.09		3.06	1.34		0.74	
MEAN	0.89	1.17	1.28	0.93	1.47	2.19	4.56	5.32	4.88	1.89	1.12	0.84	
MAX	1.40	2.38	1.80	1.23	2.16	3.08	7.74	7.27	7.05	2.94	1.31	0.96	7.74
MIN	0.71	0.85	0.96	0.82	0.90	1.39	2.46	4.01	3.06	1.34	0.97	0.74	0.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.77 M (A.D.), AT 15.00 HOURS, ON OCT 18, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.30 M (A.D.)
LEFT BANK ELEVATION 8.53 M (A.D.)
RIGHT BANK ELEVATION 8.36 M (A.D.), DRAINAGE AREA 1562 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.45	2.70	7.50	3.43	1.75	16.95	15.90	42.80	52.25	23.10	3.91	2.05	
2	1.35	2.20	7.00	3.20	1.80	19.50	18.90	42.20	95.30	21.45	3.85	2.05	
3	1.25	1.95	8.00	2.65	3.49	24.45	20.10	43.20	148.25	19.50	3.79	2.00	
4	1.15	1.55	7.60	2.35	3.91	25.20	20.70	48.80	142.60	17.70	3.67	1.95	
5	1.05	1.60	6.40	2.15	3.25	24.75	21.30	58.50	139.00	16.50	3.61	1.90	
6	0.95	1.70	5.55	2.15	3.79	24.45	22.20	70.60	119.50	14.75	3.55	1.85	
7	0.90	2.20	4.43	2.30	3.91	23.70	22.05	104.40	107.20	13.63	3.43	1.75	
8	0.85	2.40	3.91	2.55	3.43	21.30	24.60	140.20	89.00	12.75	3.25	1.70	
9	0.85	3.49	3.98	2.45	2.80	18.00	27.00	147.60	75.10	11.25	3.20	1.65	
10	0.80	3.73	3.73	2.20	2.35	15.45	29.44	160.10	64.50	10.62	3.15	1.60	
11	0.80	3.05	3.73	2.05	2.05	12.00	32.25	162.20	55.25	10.25	3.05	1.55	
12	0.85	2.45	3.91	1.85	2.25	10.50	42.40	148.90	48.00	9.80	2.95	1.50	
13	0.85	2.40	4.37	1.70	2.35	10.12	65.50	150.85	44.00	9.10	2.85	1.45	
14	0.90	2.70	4.43	1.55	3.25	9.10	76.60	162.90	39.20	8.70	2.80	1.40	
15	1.10	2.75	3.79	1.50	3.79	8.10	80.20	140.20	34.12	8.40	2.75	1.35	
16	1.05	2.50	3.25	1.35	3.31	7.30	95.30	115.50	31.12	7.90	2.65	1.30	
17	1.10	2.60	3.10	1.35	3.43	6.60	174.00	90.40	36.40	7.40	2.60	1.30	
18	1.10	2.25	2.85	1.35	3.85	5.92	208.80	70.60	49.60	7.10	2.50	1.25	
19	1.00	2.00	2.85	1.40	6.60	5.32	202.90	59.75	59.00	6.80	2.40	1.20	
20	1.85	1.50	2.85	1.55	9.70	4.80	169.50	50.50	76.00	6.60	2.40	1.20	
21	1.65	1.75	2.75	1.40	11.62	4.65	136.60	46.60	113.50	6.20	2.35	1.20	
22	1.15	1.70	2.50	1.40	11.25	4.43	104.40	47.00	109.60	5.92	2.30	1.20	
23	2.05	2.15	2.30	1.55	10.62	7.50	76.30	50.75	87.60	5.55	2.25	1.20	
24	2.50	2.50	2.30	1.65	10.00	8.70	62.50	57.25	67.75	5.25	2.20	1.20	
25	3.61	2.70	2.30	1.65	9.40	9.30	50.75	56.00	52.25	4.95	2.15	1.25	
26	4.37	3.67	2.15	1.75	8.60	11.62	45.40	49.80	42.00	4.57	2.10	1.20	
27	4.50	3.98	2.05	1.75	7.90	13.00	41.00	45.40	34.12	4.43	2.10	1.20	
28	3.98	7.00	2.25	1.55	7.90	13.75	43.40	43.00	30.56	4.37	2.10	1.10	
29	3.73	14.75	3.15	1.40	7.20	13.13	51.50	46.60	28.87	4.30		1.05	
30	3.25	13.38	3.37	1.45	7.70	12.75	48.60	48.20	26.40	4.17		1.05	
31		8.70		1.55	12.00		43.80		24.90	4.11		0.95	
TOTAL	51.99	110.00	118.35	58.18	175.25	392.34	2073.89	2500.80	2122.94	297.12	79.91	44.60	8025.36 CMSDAY
MEAN	1.73	3.55	3.94	1.88	5.65	13.08	66.90	83.36	68.48	9.58	2.85	1.44	21.99 CMS
MAX	4.50	14.75	8.00	3.43	12.00	25.20	208.80	162.90	148.25	23.10	3.91	2.05	208.80 CMS
MIN	0.80	1.50	2.05	1.35	1.75	4.43	15.90	42.20	24.90	4.11	2.10	0.95	0.80 CMS
RUNOFF	4.492	9.504	10.225	5.027	15.142	33.898	179.184	216.069	183.422	25.671	6.904	3.853	693.391 MCM

MOMENTARY PEAK 212.40 CMS, AT 7.77 M (A.D), AT 15.00 HOURS, ON OCT 18, 1980

RUNOFF YIELD 14.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 135.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG SADAO AT BAN PHRAI, SONGKHLA (X.111)

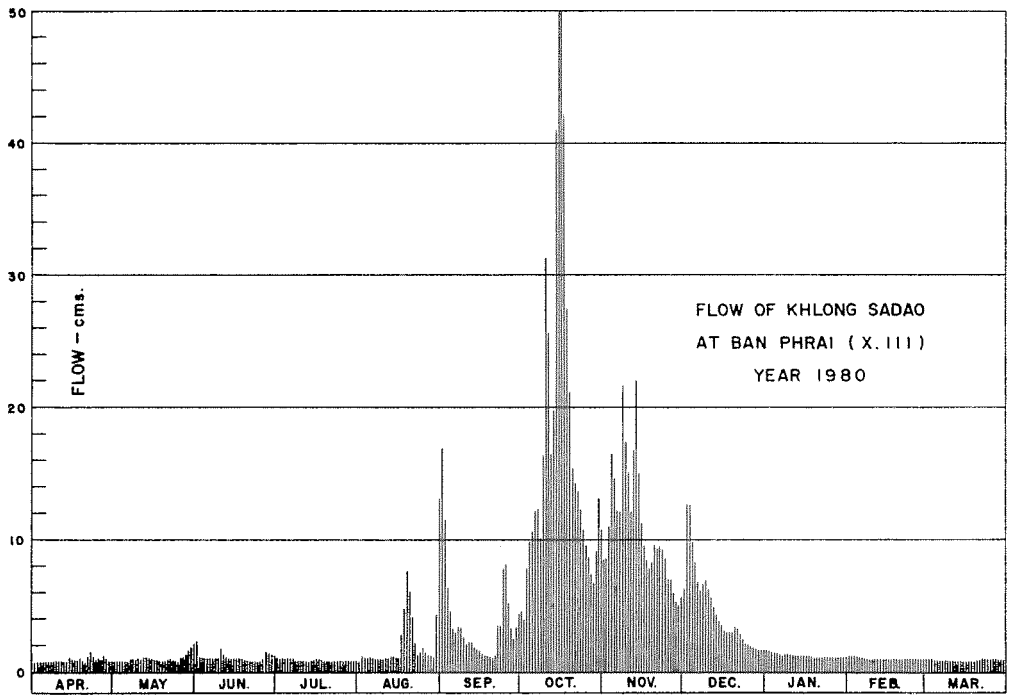
LOCATION — LAT. 6°-39'-37" N., LONG. 100°-26'-09" E., AT BAN PHRAI, AMPHOE SADAO, SONGKHLA.

DRAINAGE AREA	256 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=H.D.
LOCATION	NEAR THE TOP STAFF GAGE.
ELEVATION	+5.698 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.42	1.30	0.54	0.44	3.88	2.07	3.11	2.67	0.80	0.55	0.52	
2	0.38	0.41	0.60	0.52	0.61	3.47	1.83	3.12	3.64	0.78	0.55	0.48	
3	0.38	0.49	0.57	0.51	0.55	2.78	3.01	3.53	3.63	0.74	0.57	0.47	
4	0.36	0.49	0.53	0.50	0.59	2.15	3.28	3.86	3.38	0.74	0.60	0.46	
5	0.36	0.45	0.50	0.53	0.64	1.65	3.45	3.78	3.05	0.74	0.57	0.46	
6	0.35	0.44	0.58	0.53	0.58	1.34	3.60	3.60	2.74	0.72	0.56	0.46	
7	0.36	0.52	0.52	0.50	0.54	1.60	3.62	3.60	2.61	0.68	0.55	0.46	
8	0.38	0.50	0.50	0.48	0.53	1.64	3.38	4.02	2.70	0.71	0.53	0.45	
9	0.41	0.46	0.55	0.48	0.50	1.25	3.70	3.87	2.77	0.66	0.52	0.44	
10	0.40	0.50	0.90	0.46	0.50	0.98	4.22	3.80	2.64	0.65	0.52	0.44	
11	0.39	0.48	0.71	0.45	0.63	1.22	4.06	3.58	2.40	0.64	0.51	0.44	
12	0.39	0.50	0.58	0.43	0.58	1.13	3.86	3.86	2.12	0.63	0.51	0.43	
13	0.39	0.58	0.54	0.42	0.62	0.91	3.96	4.03	1.88	0.62	0.50	0.43	
14	0.56	0.54	0.51	0.43	0.62	0.92	4.32	3.77	1.71	0.61	0.50	0.43	
15	0.45	0.49	0.50	0.46	0.59	0.88	4.52	3.55	1.56	0.60	0.50	0.43	
16	0.42	0.47	0.51	0.54	0.57	0.77	4.53	3.29	1.44	0.60	0.51	0.43	
17	0.40	0.45	0.53	0.51	1.36	0.68	4.33	3.06	1.42	0.60	0.51	0.43	
18	0.59	0.44	0.51	0.45	2.55	0.63	4.14	2.99	1.44	0.59	0.49	0.42	
19	0.40	0.42	0.48	0.45	2.94	0.61	3.96	3.09	1.42	0.59	0.49	0.42	
20	0.38	0.42	0.48	0.43	2.59	0.58	3.82	3.28	1.57	0.59	0.49	0.40	
21	0.56	0.43	0.46	0.46	1.84	0.69	3.76	3.26	1.55	0.59	0.48	0.46	
22	0.75	0.45	0.44	0.45	1.12	1.53	3.72	3.28	1.33	0.58	0.47	0.52	
23	0.56	0.42	0.43	0.48	0.68	1.64	3.73	3.24	1.17	0.58	0.47	0.47	
24	0.46	0.40	0.43	0.48	0.79	2.73	3.52	3.11	1.08	0.58	0.47	0.48	
25	0.50	0.41	0.49	0.48	0.97	2.84	3.38	2.80	1.01	0.57	0.46	0.46	
26	0.48	0.63	0.52	0.45	0.71	2.32	3.18	2.76	0.98	0.56	0.48	0.45	
27	0.56	0.56	0.78	0.46	0.64	1.60	2.96	2.55	0.93	0.56	0.50	0.45	
28	0.54	0.79	0.74	0.46	0.60	1.18	2.77	2.29	0.89	0.56	0.49	0.45	
29	0.48	0.80	0.68	0.44	0.68	1.42	3.28	2.22	0.86	0.55		0.45	
30	0.44	0.88	0.68	0.44	2.01	2.00	3.67	2.44	0.83	0.55		0.44	
31		1.09		0.42	3.68		3.43		0.81	0.55		0.43	
MEAN	0.45	0.53	0.58	0.47	1.04	1.57	3.58	3.29	1.88	0.63	0.51	0.45	
MAX	0.75	1.09	1.30	0.54	3.68	3.88	4.53	4.03	3.64	0.80	0.60	0.52	4.53
MIN	0.35	0.40	0.43	0.42	0.44	0.58	1.83	2.22	0.81	0.55	0.46	0.40	0.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.56 M (A.D), AT 12.00 HOURS. ON OCT 16, 1980
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 7.27 M (A.D)
RIGHT BANK ELEVATION 7.31 M (A.D), DRAINAGE AREA 256 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	0.84	2.75	1.08	0.88	16.94	4.66	8.45	6.49	1.60	1.10	1.04	
2	0.76	0.82	1.20	1.04	1.22	10.93	4.02	8.51	12.72	1.56	1.10	0.96	
3	0.76	0.98	1.14	1.02	1.10	6.92	7.90	11.50	12.59	1.48	1.14	0.94	
4	0.72	0.98	1.06	1.00	1.18	4.90	9.47	16.48	10.16	1.48	1.20	0.92	
5	0.72	0.90	1.00	1.06	1.28	3.59	10.75	14.78	8.12	1.48	1.14	0.92	
6	0.70	0.88	1.16	1.06	1.16	2.85	12.20	12.20	6.76	1.44	1.12	0.92	
7	0.72	1.04	1.04	1.00	1.08	3.47	12.46	12.20	6.28	1.36	1.10	0.92	
8	0.76	1.00	1.00	0.96	1.06	3.57	10.16	21.60	6.60	1.42	1.06	0.90	
9	0.82	0.92	1.10	0.96	1.00	2.63	13.50	16.71	6.88	1.32	1.04	0.88	
10	0.80	1.00	1.82	0.92	1.00	2.00	31.30	15.10	6.39	1.30	1.04	0.88	
11	0.78	0.96	1.42	0.90	1.26	2.56	23.20	12.00	5.65	1.28	1.02	0.88	
12	0.78	1.00	1.16	0.86	1.16	2.35	16.48	16.48	4.81	1.26	1.02	0.86	
13	0.78	1.16	1.08	0.84	1.24	1.84	19.44	22.00	4.15	1.24	1.00	0.86	
14	1.12	1.08	1.02	0.86	1.24	1.87	38.12	14.62	3.73	1.22	1.00	0.86	
15	0.90	0.98	1.00	0.92	1.18	1.78	53.40	11.70	3.37	1.20	1.00	0.86	
16	0.84	0.94	1.02	1.08	1.14	1.54	54.13	9.53	3.09	1.20	1.02	0.86	
17	0.80	0.90	1.06	1.02	2.89	1.36	38.93	8.18	3.04	1.20	1.02	0.86	
18	1.18	0.88	1.02	0.90	6.10	1.26	26.88	7.80	3.09	1.18	0.98	0.84	
19	0.80	0.84	0.96	0.90	7.58	1.22	19.44	8.34	3.04	1.18	0.98	0.84	
20	0.76	0.84	0.96	0.86	6.22	1.16	15.56	9.47	3.40	1.18	0.98	0.80	
21	1.12	0.86	0.92	0.92	4.05	1.38	14.46	9.34	3.35	1.18	0.96	0.92	
22	1.50	0.90	0.88	0.90	2.33	3.54	13.82	9.47	2.82	1.16	0.94	1.04	
23	1.12	0.84	0.86	0.96	1.36	3.57	13.98	9.21	2.44	1.16	0.94	0.94	
24	0.92	0.80	0.86	0.96	1.58	6.72	11.40	8.45	2.23	1.16	0.94	0.96	
25	1.00	0.82	0.98	0.96	1.98	7.16	10.16	7.00	2.07	1.14	0.92	0.92	
26	0.96	1.26	1.04	0.90	1.42	5.41	8.84	6.84	2.00	1.12	0.96	0.90	
27	1.12	1.12	1.56	0.92	1.28	3.47	7.67	6.10	1.89	1.12	1.00	0.90	
28	1.08	1.58	1.48	0.92	1.20	2.46	6.88	5.32	1.80	1.12	0.98	0.90	
29	0.96	1.60	1.36	0.88	1.36	3.04	9.47	5.11	1.73	1.10		0.90	
30	0.88	1.78	1.36	0.88	4.48	4.45	13.11	5.77	1.67	1.10		0.88	
31		2.26		0.84	13.24		10.57		1.62	1.10		0.86	
TOTAL	26.92	32.76	35.27	29.28	75.25	115.94	542.36	330.26	143.98	39.04	28.70	27.92	1427.68 CMSDAY
MEAN	0.90	1.06	1.18	0.94	2.43	3.86	17.50	11.01	4.64	1.26	1.02	0.90	3.91 CMS
MAX	1.50	2.26	2.75	1.08	13.24	16.94	54.13	22.00	12.72	1.60	1.20	1.04	54.13 CMS
MIN	0.70	0.80	0.86	0.84	0.88	1.16	4.02	5.11	1.62	1.10	0.92	0.80	0.70 CMS
RUNOFF	2.326	2.830	3.047	2.530	6.502	10.017	46.860	28.534	12.440	3.373	2.480	2.412	123.351 MCM

MOMENTARY PEAK 58.40 CMS, AT 4.56 M (A.D), AT 12.00 HOURS, ON OCT 16, 1980

RUNOFF YIELD 15.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 228.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG LAM AT BAN PRIK (I), SONGKHLA (X.112)

LOCATION — LAT. 6°-42'-11" N., LONG. 100°-26'-10" E., AT BAN PRIK (I), AMPHOE SADAO, SONGKHLA.

DRAINAGE AREA — 493 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ON RIGHT BANK ABOUT 10 METERS FROM THE STAFF GAGE.

ELEVATION — +5.541 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +6.41 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING MAR.1-31,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

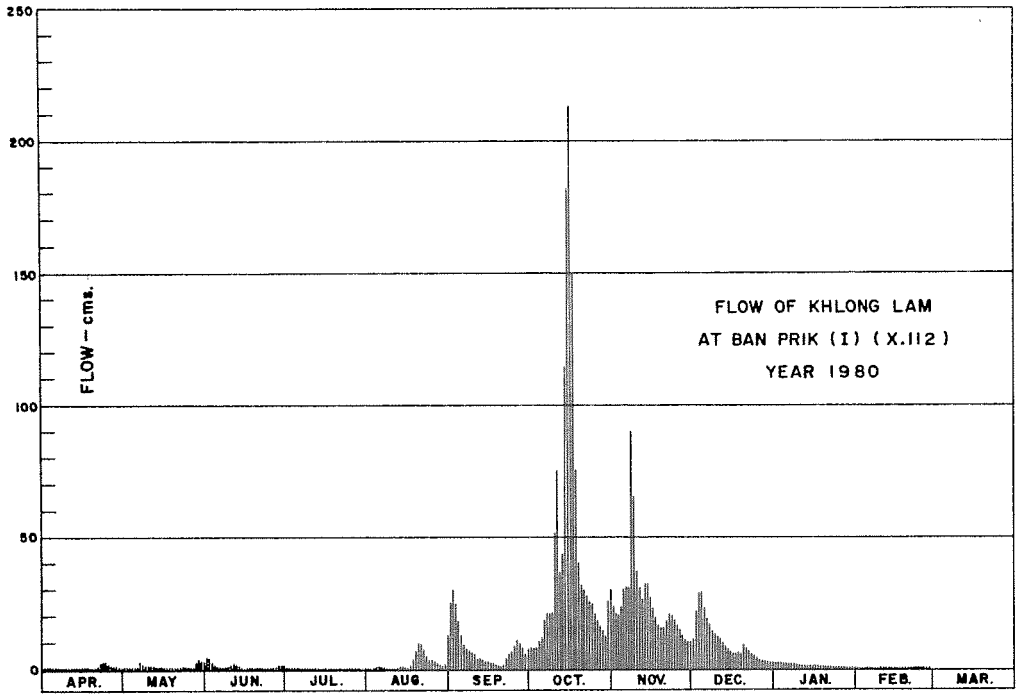
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	1.15	3.09	1.58	0.93	5.66	3.86	5.74	4.58	2.30	1.24	*******	
2	0.92	0.98	2.95	1.44	1.28	5.91	3.91	5.42	5.35	2.26	1.22	*******	
3	0.88	1.02	2.24	1.30	1.27	5.60	3.97	5.34	5.83	2.14	1.20	*******	
4	0.88	1.12	1.74	1.31	1.70	5.22	4.26	5.54	5.85	2.06	1.19	*******	
5	0.88	1.20	1.54	1.24	1.79	4.64	4.64	5.89	5.60	2.02	1.28	*******	
6	0.86	1.19	1.58	1.37	1.73	4.08	5.18	5.96	5.30	2.00	1.24	*******	
7	0.84	2.40	1.54	1.30	1.56	3.88	5.39	5.98	5.03	1.97	1.20	*******	
8	0.84	1.67	1.49	1.23	1.18	3.65	5.40	6.36	4.80	1.96	1.18	*******	
9	0.92	1.63	1.63	1.21	1.14	3.58	5.46	6.28	4.68	1.92	1.15	*******	
10	0.93	1.50	1.96	1.14	1.08	3.36	6.23	6.11	4.58	1.86	1.12	*******	
11	1.01	1.44	2.28	1.09	1.38	2.84	6.32	5.94	4.49	1.78	1.10	*******	
12	0.93	1.41	1.98	1.04	1.46	2.93	6.13	5.74	4.30	1.71	1.09	*******	
13	1.08	1.44	1.65	1.01	1.49	2.80	6.20	6.00	4.05	1.68	1.08	*******	
14	1.26	1.51	1.48	1.00	1.66	2.54	6.44	6.03	3.83	1.64	1.10	*******	
15	1.04	1.38	1.36	0.98	1.56	2.47	6.62	5.79	3.62	1.62	1.09	*******	
16	0.99	1.19	1.25	1.07	1.44	2.34	6.69	5.56	3.41	1.58	1.08	*******	
17	0.91	1.13	1.52	1.02	1.74	2.15	6.49	5.32	3.35	1.55	1.08	*******	
18	0.88	1.07	1.48	0.96	2.92	1.98	6.32	5.06	3.41	1.52	1.08	*******	
19	0.88	1.02	1.36	1.02	3.80	1.86	6.16	4.96	3.47	1.50	1.08	*******	
20	0.86	1.04	1.28	1.00	4.21	1.73	6.01	4.97	4.07	1.48	1.06	*******	
21	1.16	1.03	1.26	1.04	4.22	1.82	5.88	5.20	3.94	1.46	1.06	*******	
22	2.08	1.18	1.18	1.03	3.82	2.86	5.81	5.38	3.66	1.44	1.05	*******	
23	2.56	1.59	1.16	1.03	3.14	3.44	5.68	5.34	3.40	1.40	1.05	*******	
24	2.48	1.24	1.11	1.03	2.61	3.58	5.62	5.26	3.13	1.38	1.04	*******	
25	1.56	1.07	1.10	1.09	2.62	4.00	5.43	5.08	2.92	1.34	1.03	*******	
26	1.33	1.18	1.20	1.06	2.61	4.38	5.22	4.85	2.75	1.33	1.02	*******	
27	1.33	1.41	1.50	1.01	2.24	4.24	5.04	4.64	2.65	1.31	1.02	*******	
28	1.70	2.54	2.00	1.04	2.02	3.82	4.86	4.44	2.54	1.28	1.01	*******	
29	1.32	2.81	1.92	0.98	1.94	3.40	4.70	4.27	2.48	1.27		*******	
30	1.28	2.61	1.78	0.94	2.50	3.50	5.63	4.28	2.43	1.27		*******	
31		2.50		0.97	4.65		5.91		2.34	1.26		*******	
MEAN	1.18	1.47	1.65	1.11	2.18	3.48	5.53	5.42	3.93	1.65	1.11	*******	
MAX	2.56	2.81	3.09	1.58	4.65	5.91	6.69	6.36	5.85	2.30	1.28	*******	6.69
MIN	0.84	0.98	1.10	0.94	0.93	1.73	3.86	4.27	2.34	1.26	1.01	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.71 M (A.D), AT 6.00 HOURS, ON OCT 16, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D); RIVER BED =0.04 M (A.D)

LEFT BANK ELEVATION — 6.51 M (A.D)

RIGHT BANK ELEVATION — 6.41 M (A.D), DRAINAGE AREA 493 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.11	0.49	5.15	1.19	0.18	25.81	8.42	27.32	12.86	2.94	0.62	*******	
2	0.16	0.24	4.64	0.94	0.68	30.56	8.67	21.62	20.61	2.92	0.59	*******	
3	0.11	0.30	2.92	0.71	0.66	24.72	8.98	20.48	29.05	2.88	0.56	*******	
4	0.11	0.44	1.49	0.73	1.41	18.94	10.68	23.59	29.42	2.84	0.55	*******	
5	0.11	0.56	1.11	0.62	1.59	13.33	13.33	30.18	24.72	2.83	0.68	*******	
6	0.08	0.55	1.19	0.83	1.47	9.60	18.48	31.53	19.92	2.04	0.62	*******	
7	0.05	2.98	1.11	0.71	1.15	8.52	21.17	31.91	16.87	1.97	0.56	*******	
8	0.05	1.35	1.02	0.60	0.53	7.41	21.31	90.20	14.65	1.95	0.53	*******	
9	0.16	1.28	1.28	0.57	0.47	7.09	22.23	63.06	13.66	1.86	0.49	*******	
10	0.18	1.04	1.95	0.47	0.39	6.18	50.72	36.01	12.86	1.74	0.44	*******	
11	0.28	0.94	2.93	0.40	0.84	4.26	75.40	31.14	12.23	1.57	0.41	*******	
12	0.18	0.89	2.00	0.33	0.97	4.57	37.64	27.32	10.94	1.43	0.40	*******	
13	0.39	0.94	1.32	0.28	1.02	4.11	43.32	32.30	9.42	1.37	0.39	*******	
14	0.65	1.06	1.01	0.27	1.34	3.33	119.60	33.17	8.27	1.30	0.41	*******	
15	0.33	0.84	0.81	0.24	1.15	3.15	185.80	28.29	7.27	1.26	0.40	*******	
16	0.26	0.55	0.63	0.37	0.94	2.96	213.10	23.97	6.38	1.19	0.39	*******	
17	0.15	0.46	1.08	0.30	1.49	2.88	137.85	20.20	6.13	1.13	0.39	*******	
18	0.11	0.37	1.01	0.22	4.54	2.00	75.40	17.19	6.38	1.08	0.39	*******	
19	0.11	0.30	0.81	0.30	8.12	1.74	40.07	16.16	6.63	1.04	0.39	*******	
20	0.08	0.33	0.68	0.27	10.36	1.47	32.59	16.26	9.54	1.01	0.36	*******	
21	0.50	0.31	0.65	0.33	10.43	1.66	29.99	18.70	8.82	0.97	0.36	*******	
22	2.89	0.53	0.53	0.31	8.22	4.33	28.67	21.03	7.46	0.94	0.34	*******	
23	3.38	1.21	0.50	0.31	5.34	6.50	26.18	20.48	6.34	0.87	0.34	*******	
24	3.18	0.62	0.43	0.31	3.51	7.09	25.08	19.43	5.30	0.84	0.33	*******	
25	1.15	0.37	0.41	0.40	3.54	9.13	21.77	17.41	4.54	0.78	0.31	*******	
26	0.76	0.53	0.56	0.36	3.51	11.48	18.94	15.11	3.94	0.76	0.30	*******	
27	0.76	0.89	1.04	0.28	2.92	10.56	16.98	13.33	3.62	0.73	0.30	*******	
28	1.41	3.33	2.04	0.33	2.83	8.22	15.20	11.89	3.33	0.68	0.28	*******	
29	0.74	4.15	1.86	0.24	1.91	6.34	13.83	10.75	3.18	0.66		*******	
30	0.68	3.51	1.57	0.19	3.23	6.75	25.27	10.81	3.05	0.66		*******	
31		3.23		0.23	13.41		30.56		2.96	0.65		*******	
TOTAL	19.07	34.59	43.73	13.64	98.15	254.69	1397.23	780.84	330.35	44.89	12.13	*******	******** CMSDAY
MEAN	0.64	1.12	1.46	0.44	3.17	8.49	45.07	26.03	10.66	1.45	0.43	*******	******* CMS
MAX	3.38	4.15	5.15	1.19	13.41	30.56	213.10	90.20	29.42	2.94	0.68	*******	213.10 CMS
MIN	0.05	0.24	0.41	0.19	0.18	1.47	8.42	10.75	2.96	0.65	0.28	*******	******* CMS
RUNOFF	1.648	2.989	3.778	1.178	8.480	22.005	120.720	67.464	28.542	3.878	1.048	*******	******** MCM

MOMENTARY PEAK 221.00 CMS, AT 6.71 M (A.D), AT 6.00 HOURS, ON OCT 16, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 448.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

KHLONG LAM AT BAN THUNG PRAP (I), SONGKHLA (X.113)

LOCATION — LAT. 6°-37'-59" N., LONG. 100°-23'-46" E., AT BAN THUNG PRAP (I), AMPHOE SADAO, SONGKHLA.

DRAINAGE AREA — 129 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 10 METERS FROM THE GAGE OBSERVER'S HOUSE.

ELEVATION — +7.140 M.(A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 151 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING FEB.1-MAR.31,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

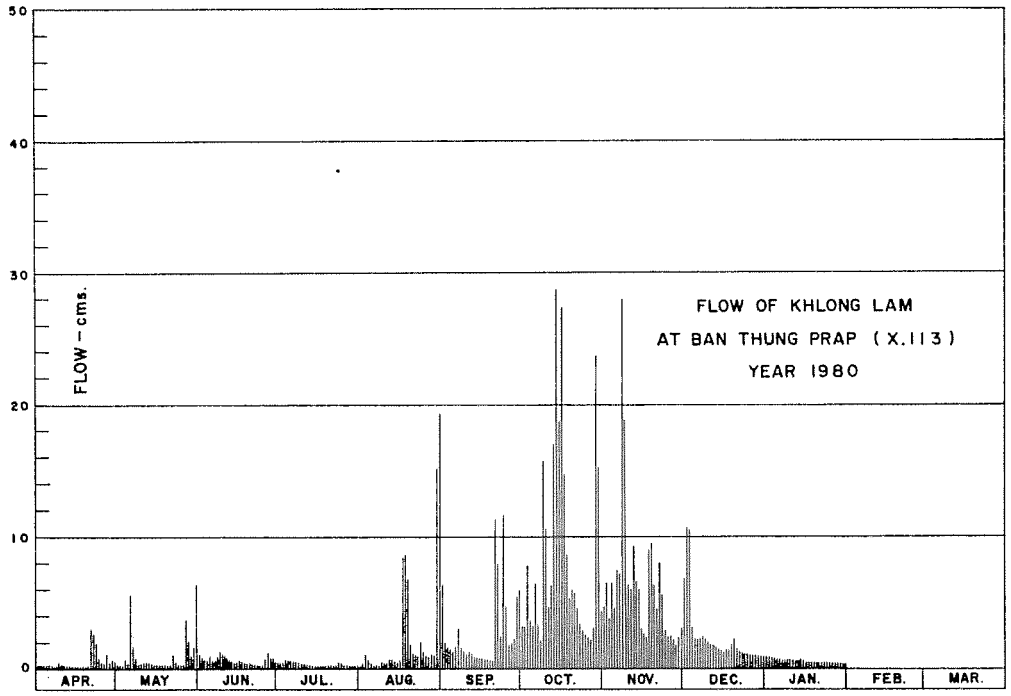
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.17	1.18	1.60	1.32	1.15	3.20	2.40	2.79	3.51	1.52	*******	*******	
2	1.16	1.18	1.53	1.32	1.18	2.18	2.42	3.18	3.78	1.50	*******	*******	
3	1.18	1.18	1.38	1.33	1.64	1.90	3.42	2.57	3.76	1.48	*******	*******	
4	1.16	1.36	1.38	1.37	1.42	1.78	2.55	3.17	2.37	1.47	*******	*******	
5	1.16	1.20	1.51	1.36	1.32	1.71	2.43	2.82	2.16	1.45	*******	*******	
6	1.18	2.97	1.36	1.34	1.24	1.87	3.18	3.64	2.14	1.44	*******	*******	
7	1.14	1.80	1.36	1.31	1.20	2.36	2.56	3.60	2.14	1.42	*******	*******	
8	1.14	1.42	1.47	1.28	1.18	1.87	2.08	4.93	2.18	1.42	*******	*******	
9	1.26	1.24	1.72	1.26	1.16	1.68	4.24	3.68	2.07	1.41	*******	*******	
10	1.22	1.26	1.66	1.24	1.34	1.61	3.82	3.14	2.00	1.40	*******	*******	
11	1.17	1.30	1.50	1.22	1.29	1.68	2.80	2.56	1.88	1.38	*******	*******	
12	1.15	1.32	1.40	1.20	1.42	1.60	3.00	3.62	1.84	1.38	*******	*******	
13	1.15	1.30	1.38	1.20	1.46	1.54	4.26	3.18	1.79	1.36	*******	*******	
14	1.14	1.27	1.34	1.18	1.38	1.54	4.96	2.60	1.77	1.36	*******	*******	
15	1.13	1.23	1.30	1.18	1.33	1.51	4.45	2.38	1.74	1.35	*******	*******	
16	1.12	1.21	1.43	1.18	1.34	1.46	4.91	2.26	1.72	1.34	*******	*******	
17	1.12	1.20	1.38	1.17	3.50	1.42	3.86	2.18	1.80	1.33	*******	*******	
18	1.12	1.19	1.34	1.17	3.54	1.40	3.29	3.57	1.81	1.33	*******	*******	
19	1.12	1.18	1.31	1.18	3.17	1.37	2.92	3.64	2.07	1.34	*******	*******	
20	1.12	1.19	1.28	1.21	2.02	1.36	3.06	3.14	2.14	1.32	*******	*******	
21	2.36	1.20	1.26	1.22	1.70	3.84	3.00	2.76	1.84	1.31	*******	*******	
22	2.25	1.58	1.24	1.20	1.58	3.23	2.72	3.36	1.74	1.30	*******	*******	
23	1.98	1.30	1.22	1.22	1.56	2.21	2.44	2.66	1.69	1.30	*******	*******	
24	1.38	1.22	1.21	1.34	2.02	3.88	2.26	2.34	1.66	1.29	*******	*******	
25	1.28	1.19	1.20	1.24	1.72	2.80	2.22	2.18	1.62	1.28	*******	*******	
26	1.26	1.20	1.28	1.20	1.58	1.93	2.10	2.21	1.60	1.28	*******	*******	
27	1.62	2.53	1.64	1.18	1.52	1.98	2.04	2.08	1.58	1.27	*******	*******	
28	1.31	2.04	1.49	1.16	1.61	2.14	2.52	2.02	1.57	1.26	*******	*******	
29	1.40	1.54	1.42	1.17	1.76	2.92	4.83	2.19	1.56	1.26		*******	
30	1.26	1.90	1.34	1.16	4.06	3.07	3.76	2.37	1.55	1.25		*******	
31		3.13		1.15	4.48		2.71		1.53	1.25		*******	
MEAN	1.31	1.48	1.40	1.23	1.83	2.10	3.14	2.89	2.02	1.36	*******	*******	
MAX	2.36	3.13	1.72	1.37	4.48	3.88	4.96	4.93	3.78	1.52	*******	*******	4.96
MIN	1.12	1.18	1.20	1.15	1.15	1.36	2.04	2.02	1.53	1.25	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.31 M (A.D), AT 6.00 HOURS, ON NOV 8, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.77 M (A.D)

LEFT BANK ELEVATION — 8.16 M (A.D)

RIGHT BANK ELEVATION — 8.19 M (A.D), DRAINAGE AREA — 129 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.26	1.10	0.54	0.20	6.65	3.20	4.71	8.56	0.94	*******	*******	
2	0.22	0.26	0.96	0.54	0.26	2.49	3.27	6.55	10.63	0.90	*******	*******	
3	0.26	0.26	0.66	0.56	1.18	1.75	7.98	3.83	10.46	0.86	*******	*******	
4	0.22	0.62	0.66	0.64	0.74	1.46	3.75	6.50	3.09	0.84	*******	*******	
5	0.22	0.30	0.92	0.62	0.54	1.32	3.30	4.84	2.43	0.80	*******	*******	
6	0.26	5.51	0.62	0.58	0.38	1.67	6.55	9.47	2.37	0.78	*******	*******	
7	0.18	1.50	0.62	0.52	0.30	3.06	3.79	9.15	2.37	0.74	*******	*******	
8	0.18	0.74	0.84	0.46	0.26	1.67	2.20	27.92	2.49	0.74	*******	*******	
9	0.42	0.38	1.34	0.42	0.22	1.26	15.76	9.79	2.17	0.72	*******	*******	
10	0.34	0.42	1.22	0.38	0.58	1.12	11.00	6.35	2.00	0.70	*******	*******	
11	0.24	0.50	0.90	0.34	0.48	1.26	4.75	3.79	1.70	0.66	*******	*******	
12	0.20	0.54	0.70	0.30	0.74	1.10	5.65	9.31	1.60	0.66	*******	*******	
13	0.20	0.50	0.66	0.30	0.82	0.98	16.04	6.55	1.48	0.62	*******	*******	
14	0.18	0.44	0.58	0.26	0.66	0.98	28.64	3.95	1.44	0.62	*******	*******	
15	0.16	0.36	0.50	0.26	0.56	0.92	18.80	3.13	1.38	0.60	*******	*******	
16	0.14	0.32	0.76	0.26	0.58	0.82	27.44	2.73	1.34	0.58	*******	*******	
17	0.14	0.30	0.66	0.24	8.50	0.74	11.40	2.49	1.50	0.56	*******	*******	
18	0.14	0.28	0.58	0.24	8.76	0.70	7.14	8.95	1.52	0.56	*******	*******	
19	0.14	0.26	0.52	0.26	6.50	0.64	5.29	9.47	2.17	0.58	*******	*******	
20	0.14	0.28	0.46	0.32	2.05	0.62	5.95	6.35	2.37	0.54	*******	*******	
21	3.06	0.30	0.42	0.34	1.30	11.20	5.65	4.59	1.60	0.52	*******	*******	
22	2.70	1.06	0.38	0.30	1.06	6.81	4.43	7.59	1.38	0.50	*******	*******	
23	1.95	0.50	0.34	0.34	1.02	2.58	3.34	4.19	1.28	0.50	*******	*******	
24	0.66	0.34	0.32	0.58	2.05	11.60	2.73	2.99	1.22	0.48	*******	*******	
25	0.46	0.28	0.30	0.38	1.34	4.75	2.61	2.49	1.14	0.46	*******	*******	
26	0.42	0.30	0.46	0.30	1.06	1.82	2.25	2.58	1.10	0.46	*******	*******	
27	1.14	3.67	1.18	0.26	0.94	1.95	2.10	2.20	1.06	0.44	*******	*******	
28	0.52	2.10	0.88	0.22	1.12	2.37	3.63	2.05	1.04	0.42	*******	*******	
29	0.70	0.98	0.74	0.24	1.42	5.29	25.73	2.52	1.02	0.42		*******	
30	0.42	1.75	0.58	0.22	13.52	6.00	10.46	3.09	1.00	0.40		*******	
31		6.30		0.20	19.28		4.39		0.96	0.40		*******	
TOTAL	16.25	31.61	20.86	11.42	78.42	85.58	259.22	180.12	75.87	19.00	*******	*******	******** CMSDAY
MEAN	0.54	1.02	0.70	0.37	2.53	2.85	8.36	6.00	2.45	0.61	*******	*******	******* CMS
MAX	3.06	6.30	1.34	0.64	19.28	11.60	28.64	27.92	10.63	0.94	*******	*******	28.64 CMS
MIN	0.14	0.26	0.30	0.20	0.20	0.62	2.10	2.05	0.96	0.40	*******	*******	******* CMS
RUNOFF	1.404	2.731	1.802	0.987	6.775	7.394	22.397	15.562	6.555	1.642	*******	*******	******** MCM

MOMENTARY PEAK 38.21 CMS, AT 5.31 M (A.D), AT 6.00 HOURS, ON NOV 8, 1980
RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 296.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA EAST COAST

PATTANI RIVER AT YALA, YALA (X.40)

LOCATION — LAT. 6°-34'-03" N., LONG. 101°-17'-40" E., ON RIGHT BANK ABOUT 500 METERS DOWNSTREAM FROM STATE RAILWAY BRIDGE CROSSING PATTANI RIVER AT BAN SATENG NOK, AMPHOE MUANG, YALA.

DRAINAGE AREA — 3,295 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +9.60 M. (M.S.L.)

BENCH MARK — B.M.=M.D.

LOCATION — ABOUT 15 METERS UPSTREAM FROM THE TOP STAFF GAGE.

ELEVATION — +16.134 M. (M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1964 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1964-1975

RATED BY FLOAT — -

RATED BY CURRENT METER — 1964-1975

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 2,198 DISCHARGE MEASUREMENTS MADE DURING 1966-1975.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

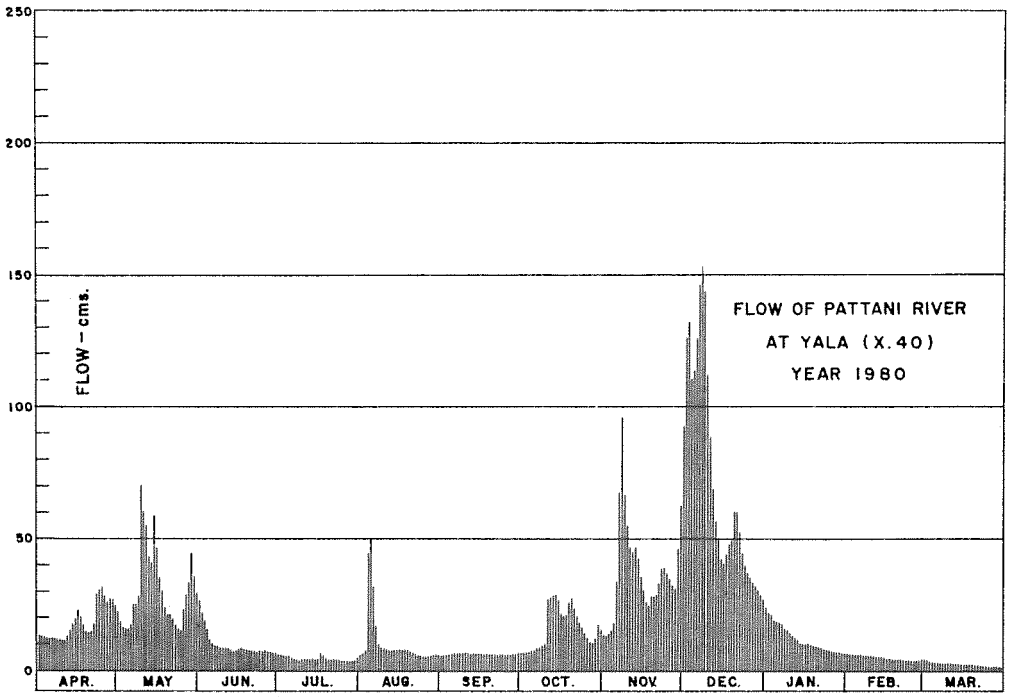
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.36	10.59	10.65	10.11	10.09	10.09	10.15	10.37	11.47	10.64	10.13	10.01	
2	10.35	10.48	10.61	10.10	10.15	10.09	10.15	10.36	12.09	10.59	10.13	10.00	
3	10.34	10.43	10.52	10.09	10.17	10.10	10.15	10.38	12.17	10.57	10.12	9.99	
4	10.33	10.43	10.43	10.07	11.03	10.10	10.16	10.42	11.93	10.52	10.12	9.98	
5	10.33	10.42	10.30	10.06	11.10	10.10	10.18	10.49	11.97	10.50	10.11	9.98	
6	10.32	10.47	10.27	10.05	10.83	10.11	10.20	10.74	12.06	10.48	10.11	9.97	
7	10.32	10.64	10.25	10.04	10.47	10.12	10.21	11.12	12.32	10.45	10.10	9.96	
8	10.32	10.65	10.24	10.02	10.29	10.12	10.24	11.77	12.42	10.43	10.10	9.95	
9	10.32	10.73	10.23	10.01	10.23	10.12	10.24	11.46	12.28	10.41	10.09	9.95	
10	10.31	11.45	10.22	10.02	10.19	10.13	10.25	11.26	12.00	10.38	10.09	9.94	
11	10.31	11.29	10.21	10.02	10.17	10.14	10.68	11.09	11.69	10.36	10.08	9.93	
12	10.36	11.21	10.20	10.02	10.17	10.13	10.70	11.04	11.48	10.34	10.08	9.93	
13	10.40	11.02	10.20	10.02	10.18	10.13	10.71	11.08	11.28	10.32	10.08	9.92	
14	10.46	10.97	10.19	10.02	10.18	10.12	10.72	11.02	11.14	10.31	10.07	9.92	
15	10.53	11.28	10.19	10.02	10.19	10.12	10.68	10.92	10.99	10.29	10.06	9.91	
16	10.58	11.05	10.20	10.02	10.19	10.13	10.59	10.79	10.96	10.28	10.05	9.91	
17	10.52	10.85	10.21	10.11	10.20	10.13	10.55	10.69	11.03	10.27	10.04	9.91	
18	10.45	10.72	10.20	10.08	10.20	10.12	10.57	10.64	11.09	10.26	10.03	9.90	
19	10.38	10.63	10.20	10.03	10.19	10.12	10.65	10.70	11.13	10.25	10.03	9.90	
20	10.38	10.57	10.19	10.01	10.18	10.13	10.69	10.70	11.30	10.24	10.02	9.90	
21	10.39	10.55	10.20	10.02	10.16	10.12	10.62	10.73	11.29	10.23	10.01	9.90	
22	10.51	10.51	10.19	10.01	10.14	10.12	10.56	10.83	11.16	10.22	10.00	9.89	
23	10.71	10.46	10.19	10.01	10.10	10.13	10.49	10.90	11.04	10.21	10.00	9.89	
24	10.75	10.43	10.18	10.01	10.07	10.13	10.44	10.94	10.95	10.20	9.99	9.89	
25	10.78	10.41	10.18	10.01	10.07	10.13	10.39	10.88	10.89	10.18	9.98	9.89	
26	10.70	10.62	10.18	10.01	10.07	10.14	10.34	10.84	10.85	10.17	9.98	9.88	
27	10.65	10.70	10.17	10.00	10.07	10.14	10.30	10.80	10.81	10.16	9.99	9.88	
28	10.68	10.80	10.16	10.00	10.08	10.14	10.29	10.75	10.78	10.15	10.00	9.88	
29	10.69	11.03	10.14	10.00	10.08	10.14	10.35	11.02	10.75	10.15		9.88	
30	10.64	10.90	10.12	10.00	10.08	10.15	10.47	11.22	10.72	10.14		9.87	
31		10.75		10.05	10.10		10.45		10.69	10.13		9.87	
MEAN	10.47	10.74	10.25	10.03	10.24	10.12	10.42	10.86	11.38	10.32	10.06	9.92	
MAX	10.78	11.45	10.65	10.11	11.10	10.15	10.72	11.77	12.42	10.64	10.13	10.01	12.42
MIN	10.31	10.41	10.12	10.00	10.07	10.09	10.15	10.36	10.69	10.13	9.98	9.87	9.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 12.44 M (MSL), AT 12.00 HOURS, ON DEC 8, 1980

ZERO GAGE AT BOTTOM ELEVATION 9.60 M (MSL), RIVER BED 9.23 M (MSL)

LEFT BANK ELEVATION 16.14 M (MSL)

RIGHT BANK ELEVATION 15.78 M (MSL), DRAINAGE AREA 3295 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.40	22.60	25.50	6.20	5.80	5.80	7.00	13.80	71.90	25.00	6.60	4.20	
2	13.00	18.20	23.50	6.00	7.00	5.80	7.00	13.40	125.10	22.60	6.60	4.00	
3	12.60	16.20	19.80	5.80	7.40	6.00	7.00	14.20	132.30	21.80	6.40	3.80	
4	12.20	16.20	16.20	5.40	44.80	6.00	7.20	15.80	110.70	19.80	6.40	3.60	
5	12.20	15.80	11.00	5.20	49.00	6.00	7.60	18.60	114.30	19.00	6.20	3.60	
6	11.80	17.80	10.10	5.00	34.50	6.20	8.00	30.00	122.40	18.20	6.20	3.40	
7	11.80	25.00	9.50	4.80	17.80	6.40	8.30	50.20	145.80	17.00	6.00	3.20	
8	11.80	25.50	9.20	4.40	10.70	6.40	9.20	96.30	154.80	16.20	6.00	3.00	
9	11.80	29.50	8.90	4.20	8.90	6.40	9.20	71.20	142.20	15.40	5.80	3.00	
10	11.40	70.50	8.60	4.40	7.80	6.60	9.50	58.60	117.00	14.20	5.80	2.80	
11	11.40	60.40	8.30	4.40	7.40	6.80	27.00	48.40	89.20	13.40	5.60	2.60	
12	13.40	55.60	8.00	4.40	7.40	6.60	28.00	45.40	72.60	12.60	5.60	2.60	
13	15.00	44.20	8.00	4.40	7.60	6.60	28.50	47.80	59.80	11.80	5.60	2.40	
14	17.40	41.50	7.80	4.40	7.60	6.40	29.00	44.20	51.40	11.40	5.40	2.40	
15	20.20	59.80	7.80	4.40	7.80	6.40	27.00	39.00	42.50	10.70	5.20	2.20	
16	22.20	46.00	8.00	4.40	7.80	6.60	22.60	32.50	41.00	10.40	5.00	2.20	
17	19.80	35.50	8.30	6.20	8.00	6.60	21.00	27.50	44.80	10.10	4.80	2.20	
18	17.00	29.00	8.00	5.60	8.00	6.40	21.80	25.00	48.40	9.80	4.60	2.00	
19	14.20	24.50	8.00	4.60	7.80	6.40	25.50	28.00	50.80	9.50	4.60	2.00	
20	14.20	21.80	7.80	4.20	7.60	6.60	27.50	28.00	61.00	9.20	4.40	2.00	
21	14.60	21.00	8.00	4.40	7.20	6.40	24.00	29.50	60.40	8.90	4.20	2.00	
22	19.40	19.40	7.80	4.20	6.80	6.40	21.40	34.50	52.60	8.60	4.00	1.80	
23	28.50	17.40	7.80	4.20	6.00	6.60	18.60	38.00	45.40	8.30	4.00	1.80	
24	30.50	16.20	7.60	4.20	5.40	6.60	16.60	40.00	40.50	8.00	3.80	1.80	
25	32.00	15.40	7.60	4.20	5.40	6.60	14.60	37.00	37.50	7.60	3.60	1.80	
26	28.00	24.00	7.60	4.20	5.40	6.80	12.60	35.00	35.50	7.40	3.60	1.60	
27	25.50	28.00	7.40	4.00	5.40	6.80	11.00	33.00	33.50	7.20	3.80	1.60	
28	27.00	33.00	7.20	4.00	5.60	6.80	10.70	30.50	32.00	7.00	4.00	1.60	
29	27.50	44.80	6.80	4.00	5.60	6.80	13.00	44.20	30.50	7.00		1.60	
30	25.00	38.00	6.40	4.00	5.60	7.00	17.80	56.20	29.00	6.80		1.40	
31		30.50		5.00	6.00		17.00		27.50	6.60		1.40	
TOTAL	544.80	963.30	296.50	144.80	335.10	193.80	515.20	1125.80	2222.40	381.50	143.80	75.60	6942.59 CMSDAY
MEAN	18.16	31.07	9.88	4.67	10.81	6.46	16.62	37.53	71.69	12.31	5.14	2.44	19.02 CMS
MAX	32.00	70.50	25.50	6.20	49.00	7.00	29.00	96.30	154.80	25.00	6.60	4.20	154.80 CMS
MIN	11.40	15.40	6.40	4.00	5.40	5.80	7.00	13.40	27.50	6.60	3.60	1.40	1.40 CMS
RUNOFF	47.071	83.229	25.618	12.511	28.953	16.744	44.513	97.269	192.015	32.962	12.424	6.532	599.840 MCM

MOMENTARY PEAK 156.60 CMS, AT 12.44 M (MSL), AT 12.00 HOURS, ON DEC 8, 1980

RUNOFF YIELD 5.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 47.53 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA WEST COAST

KHLONG AO YON AT BAN AO YON, PHUKET (X.97)

LOCATION — LAT. 7°-49'-07" N., LONG. 98°-23'-44" E., ON LEFT BANK NEAR TANK PROJECT OF SONGKHLA NAKHARIN UNIVERSITY, AMPHOE MUANG, PHUKET.

DRAINAGE AREA — 2 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.810 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK NEAR THE GAGE SITE.

ELEVATION — +3.050 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1974, 1976 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974, 1976 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974, 1976 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 104 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR.1-JUN.10,1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

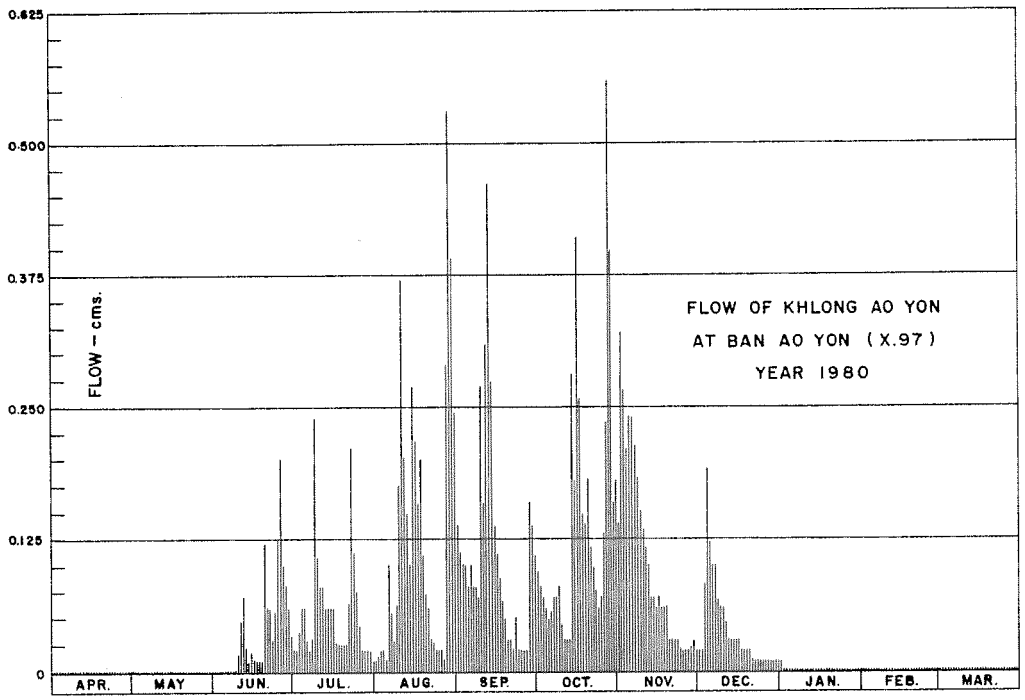
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.81	0.81	0.81	1.10	1.08	1.20	1.16	1.19	1.10	1.07	1.04	0.81	
2	0.81	0.81	0.81	1.10	1.08	1.17	1.15	1.32	1.10	1.06	1.04	0.81	
3	0.81	0.81	0.81	1.11	1.09	1.16	1.14	1.27	1.14	1.05	1.03	0.81	
4	0.81	0.81	0.81	1.13	1.09	1.16	1.13	1.25	1.23	1.05	1.03	0.81	
5	0.81	0.81	0.81	1.13	1.08	1.15	1.12	1.26	1.18	1.05	1.03	0.81	
6	0.81	0.81	0.81	1.11	1.16	1.16	1.13	1.26	1.16	1.05	1.04	0.81	
7	0.81	0.81	0.81	1.10	1.12	1.15	1.14	1.25	1.16	1.05	1.05	0.81	
8	0.81	0.81	0.81	1.11	1.11	1.15	1.14	1.22	1.14	1.05	1.05	0.81	
9	0.81	0.81	0.81	1.27	1.13	1.14	1.15	1.20	1.13	1.04	1.05	0.81	
10	0.81	0.81	0.81	1.17	1.17	1.29	1.12	1.19	1.13	1.04	1.05	0.81	
11	0.81	0.81	1.12	1.15	1.34	1.21	1.11	1.18	1.12	1.04	1.05	0.81	
12	0.81	0.81	1.14	1.15	1.24	1.31	1.11	1.16	1.11	1.04	1.05	0.81	
13	0.81	0.81	1.09	1.13	1.19	1.38	1.11	1.14	1.11	1.05	1.05	0.81	
14	0.81	0.81	1.07	1.13	1.16	1.27	1.30	1.14	1.11	1.06	1.05	0.81	
15	0.81	0.81	1.09	1.13	1.29	1.19	1.22	1.13	1.11	1.05	1.05	0.81	
16	0.81	0.81	1.08	1.13	1.24	1.17	1.36	1.14	1.10	1.05	1.05	0.81	
17	0.81	0.81	1.07	1.11	1.21	1.15	1.25	1.13	1.10	1.04	1.05	0.81	
18	0.81	0.81	1.07	1.10	1.24	1.14	1.20	1.13	1.10	1.04	1.05	0.81	
19	0.81	0.81	1.07	1.10	1.17	1.12	1.19	1.13	1.10	1.04	1.05	0.81	
20	0.81	0.81	1.18	1.10	1.14	1.11	1.22	1.11	1.09	1.04	1.05	0.81	
21	0.81	0.81	1.13	1.10	1.13	1.11	1.18	1.11	1.08	1.04	1.04	0.81	
22	0.81	0.81	1.13	1.13	1.11	1.09	1.16	1.11	1.08	1.03	1.04	0.81	
23	0.81	0.81	1.11	1.25	1.11	1.12	1.15	1.11	1.08	1.03	1.03	0.81	
24	0.81	0.81	1.14	1.17	1.10	1.10	1.13	1.10	1.08	1.03	1.03	0.81	
25	0.81	0.81	1.21	1.14	1.09	1.09	1.14	1.10	1.07	1.04	1.02	0.81	
26	0.81	0.81	1.24	1.12	1.09	1.09	1.19	1.10	1.08	1.04	1.02	0.81	
27	0.81	0.81	1.17	1.10	1.08	1.09	1.26	1.09	1.08	1.04	1.01	0.81	
28	0.81	0.81	1.15	1.10	1.16	1.21	1.42	1.09	1.08	1.05	1.00	0.81	
29	0.81	0.81	1.13	1.09	1.41	1.19	1.32	1.11	1.08	1.05		0.81	
30	0.81	0.81	1.11	1.09	1.36	1.17	1.21	1.10	1.08	1.04		0.81	
31		0.81		1.08	1.30		1.27		1.07	1.04		0.81	
MEAN	0.81	0.81	1.02	1.13	1.17	1.17	1.19	1.16	1.11	1.04	1.04	0.81	
MAX	0.81	0.81	1.24	1.27	1.41	1.38	1.42	1.32	1.23	1.07	1.05	0.81	1.42
MIN	0.81	0.81	0.81	1.08	1.08	1.09	1.11	1.09	1.07	1.03	1.00	0.81	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.81 M (MSL), AT 16.00 HOURS, ON OCT 28, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.81 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 2 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.02	0.01	0.15	0.10	0.14	0.02	0.01	0.00	0.00	
2	0.00	0.00	0.00	0.02	0.01	0.11	0.08	0.32	0.02	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.03	0.02	0.10	0.07	0.24	0.07	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.06	0.02	0.10	0.06	0.21	0.19	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.06	0.01	0.08	0.05	0.23	0.12	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.03	0.10	0.10	0.06	0.23	0.10	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.02	0.05	0.08	0.07	0.21	0.10	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.03	0.03	0.08	0.07	0.18	0.07	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.24	0.06	0.07	0.08	0.15	0.06	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.11	0.11	0.27	0.05	0.14	0.06	0.00	0.00	0.00	
11	0.00	0.00	0.05	0.08	0.37	0.16	0.03	0.12	0.05	0.00	0.00	0.00	
12	0.00	0.00	0.07	0.08	0.20	0.30	0.03	0.10	0.03	0.00	0.00	0.00	
13	0.00	0.00	0.02	0.06	0.14	0.46	0.03	0.07	0.03	0.00	0.00	0.00	
14	0.00	0.00	0.01	0.06	0.10	0.24	0.28	0.07	0.03	0.00	0.00	0.00	
15	0.00	0.00	0.02	0.06	0.27	0.14	0.18	0.06	0.03	0.00	0.00	0.00	
16	0.00	0.00	0.01	0.06	0.20	0.11	0.41	0.07	0.02	0.00	0.00	0.00	
17	0.00	0.00	0.01	0.03	0.16	0.08	0.21	0.06	0.02	0.00	0.00	0.00	
18	0.00	0.00	0.01	0.02	0.20	0.07	0.15	0.06	0.02	0.00	0.00	0.00	
19	0.00	0.00	0.01	0.02	0.11	0.05	0.14	0.06	0.02	0.00	0.00	0.00	
20	0.00	0.00	0.12	0.02	0.07	0.03	0.18	0.03	0.02	0.00	0.00	0.00	
21	0.00	0.00	0.06	0.02	0.06	0.03	0.12	0.03	0.01	0.00	0.00	0.00	
22	0.00	0.00	0.06	0.06	0.03	0.02	0.10	0.03	0.01	0.00	0.00	0.00	
23	0.00	0.00	0.03	0.21	0.03	0.05	0.08	0.03	0.01	0.00	0.00	0.00	
24	0.00	0.00	0.07	0.11	0.02	0.02	0.06	0.02	0.01	0.00	0.00	0.00	
25	0.00	0.00	0.16	0.07	0.02	0.02	0.07	0.02	0.01	0.00	0.00	0.00	
26	0.00	0.00	0.20	0.05	0.02	0.02	0.14	0.02	0.01	0.00	0.00	0.00	
27	0.00	0.00	0.11	0.02	0.01	0.02	0.23	0.02	0.01	0.00	0.00	0.00	
28	0.00	0.00	0.08	0.02	0.10	0.16	0.56	0.02	0.01	0.00	0.00	0.00	
29	0.00	0.00	0.06	0.02	0.53	0.14	0.32	0.03	0.01	0.00		0.00	
30	0.00	0.00	0.03	0.02	0.41	0.11	0.16	0.02	0.01	0.00		0.00	
31		0.00		0.01	0.28		0.18		0.01	0.00		0.00	
TOTAL	0.00	0.00	1.19	1.72	3.75	3.37	4.35	2.99	1.19	0.01	0.00	0.00	18.57 CMSDAY
MEAN	0.00	0.00	0.04	0.06	0.12	0.11	0.14	0.10	0.04	0.00	0.00	0.00	0.05 CMS
MAX	0.00	0.00	0.20	0.24	0.53	0.46	0.56	0.32	0.19	0.01	0.00	0.00	0.56 CMS
MIN	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.103	0.149	0.324	0.291	0.376	0.258	0.103	0.001	0.000	0.000	1.604 MCM

MOMENTARY PEAK 11.37 CMS, AT 2.81 M (MSL), AT 16.00 HOURS, ON OCT 28, 1980
RUNOFF YIELD 25.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 5683.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA WEST COAST

TRANG RIVER AT BAN THA PRADU, TRANG (X.56)

LOCATION — LAT. 7°-46'-01" N., LONG. 99°-32'-25" E., ON LEFT BANK ABOUT 200 METERS LEFT FROM HUAI YOT-KRABI HIGHWAY, AND ABOUT 16 KILOMETERS FROM AMPHOE HUAI YOT, TRANG.

DRAINAGE AREA — 1,801 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ON LEFT BANK NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +8.876 M. (A.D.)

GAGE READING FREQUENCY — 13-TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 13 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE

RATING OPERATION

PERIOD OF RATING — 1966-1969, 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966-1969, 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 114 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING FEB.1-MAR.31,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

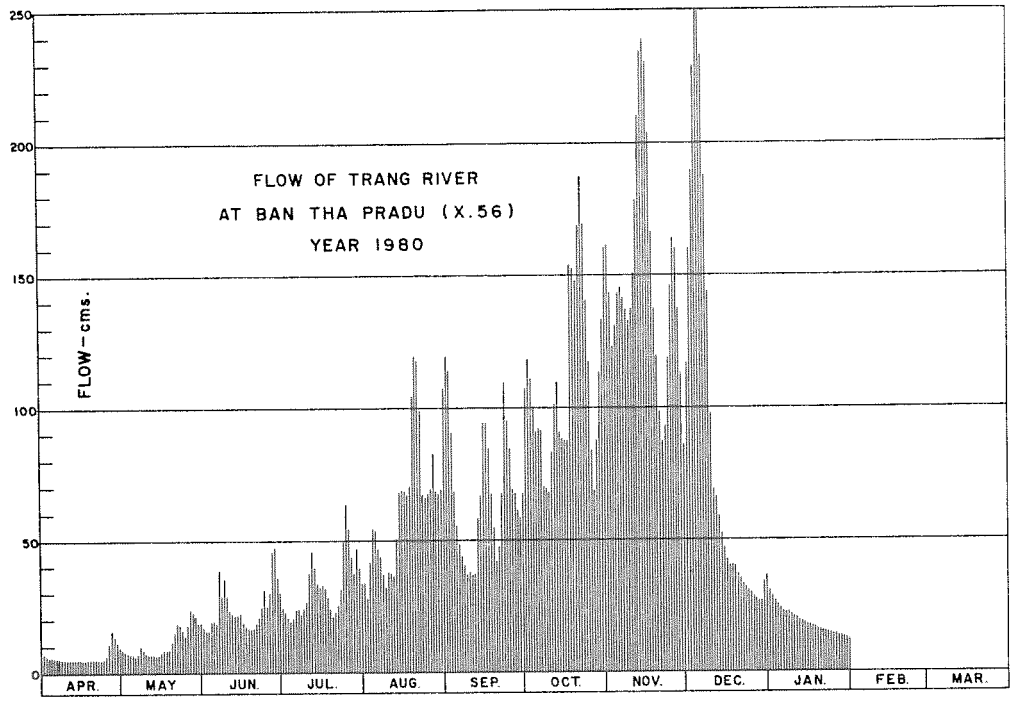
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.41	1.50	1.88	2.34	2.82	5.82	5.57	6.52	5.82	2.68	*******	*******	
2	1.36	1.45	1.88	2.24	2.55	5.66	5.79	6.26	6.51	2.55	*******	*******	
3	1.33	1.40	1.90	2.12	3.30	5.05	5.64	5.89	6.93	2.48	*******	*******	
4	1.31	1.37	2.07	2.09	3.77	4.50	5.36	6.03	7.19	2.41	*******	*******	
5	1.30	1.38	2.10	2.13	3.76	3.90	5.12	6.23	7.38	2.35	*******	*******	
6	1.30	1.35	2.02	2.32	3.40	3.58	5.15	6.27	7.37	2.30	*******	*******	
7	1.30	1.40	3.06	2.30	3.27	3.30	5.11	6.24	7.17	2.27	*******	*******	
8	1.29	1.56	2.54	2.19	2.95	3.02	4.80	6.14	6.58	2.24	*******	*******	
9	1.28	1.45	2.92	2.30	2.74	2.95	4.49	6.08	5.82	2.18	*******	*******	
10	1.27	1.40	2.51	2.50	3.02	2.99	4.50	6.16	5.09	2.14	*******	*******	
11	1.27	1.39	2.24	3.05	3.01	3.43	4.99	6.40	4.65	2.12	*******	*******	
12	1.28	1.40	2.18	3.37	2.96	3.48	5.42	6.86	4.23	2.08	*******	*******	
13	1.29	1.38	2.17	3.14	3.61	4.01	5.60	7.12	3.87	2.06	*******	*******	
14	1.27	1.40	2.18	2.80	4.61	4.74	5.08	7.25	3.63	2.03	*******	*******	
15	1.26	1.40	2.22	2.74	4.61	5.20	4.51	7.29	3.43	2.00	*******	*******	
16	1.27	1.46	2.07	2.79	4.50	5.20	4.42	7.23	3.26	1.98	*******	*******	
17	1.27	1.49	1.99	2.72	4.34	4.84	4.53	7.05	3.13	1.96	*******	*******	
18	1.29	1.50	1.94	2.50	4.72	4.16	6.41	6.59	3.14	1.94	*******	*******	
19	1.28	1.50	1.91	2.30	5.39	3.67	6.39	6.03	3.12	1.93	*******	*******	
20	1.28	1.70	1.96	2.20	5.84	3.22	6.33	5.56	2.98	1.91	*******	*******	
21	1.27	1.89	2.02	2.34	5.78	3.47	6.60	5.21	2.91	1.89	*******	*******	
22	1.27	2.03	2.16	2.47	5.14	4.36	6.82	5.00	2.83	1.87	*******	*******	
23	1.26	1.96	2.35	2.80	4.33	5.61	6.73	5.22	2.74	1.86	*******	*******	
24	1.28	1.83	2.66	3.84	4.29	5.14	6.26	5.90	2.68	1.83	*******	*******	
25	1.39	1.80	2.38	4.14	4.51	4.94	5.52	6.35	2.63	1.82	*******	*******	
26	1.69	2.09	2.62	3.58	4.74	4.70	4.92	6.54	2.55	1.80	*******	*******	
27	1.89	2.32	3.34	3.17	4.83	4.32	4.67	6.49	2.50	1.78	*******	*******	
28	1.74	2.19	3.44	3.00	4.51	4.07	5.12	6.03	2.46	1.76	*******	*******	
29	1.65	2.14	3.00	3.41	4.38	3.98	5.74	5.40	2.49	1.75		*******	
30	1.57	2.04	2.66	3.14	4.80	4.64	6.12	4.97	2.81	1.74		*******	
31		2.04		2.83	5.54		6.51		2.94	1.72		*******	
MEAN	1.36	1.65	2.35	2.74	4.13	4.26	5.49	6.21	4.22	2.05	*******	*******	
MAX	1.89	2.32	3.44	4.14	5.84	5.82	6.82	7.29	7.38	2.68	*******	*******	7.38
MIN	1.26	1.35	1.88	2.09	2.55	2.95	4.42	4.97	2.46	1.72	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.40 M (A.D), AT 18.00 HOURS, ON DEC 5, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.15 M (A.D)

LEFT BANK ELEVATION 13.12 M (A.D)

RIGHT BANK ELEVATION 13.14 M (A.D), DRAINAGE AREA 1801 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.98	8.60	15.52	24.26	33.62	119.40	108.14	161.68	119.40	30.80	*******	*******	
2	6.08	7.70	15.52	22.36	28.25	112.10	117.95	144.22	160.89	28.25	*******	*******	
3	5.54	6.80	15.90	20.08	43.70	89.20	111.20	122.90	198.00	26.92	*******	*******	
4	5.18	6.26	19.13	19.51	54.11	68.28	99.68	130.71	226.85	25.59	*******	*******	
5	5.00	6.44	19.70	20.27	53.88	57.20	91.44	142.36	250.40	24.45	*******	*******	
6	5.00	5.90	18.18	23.88	45.80	49.76	92.40	144.84	249.10	23.50	*******	*******	
7	5.00	6.80	38.66	23.50	43.07	43.70	91.12	142.98	224.55	22.93	*******	*******	
8	4.82	9.68	28.06	21.41	36.35	37.82	69.90	137.02	166.42	22.36	*******	*******	
9	4.64	7.70	35.72	23.50	32.00	36.35	68.23	133.56	119.40	21.22	*******	*******	
10	4.46	6.80	27.49	27.30	37.82	37.19	68.28	138.18	90.48	20.46	*******	*******	
11	4.46	6.62	22.36	38.45	37.61	46.46	87.29	153.10	69.09	20.08	*******	*******	
12	4.64	6.80	21.22	45.17	36.56	47.56	102.00	191.00	65.38	19.32	*******	*******	
13	4.82	6.44	21.03	40.34	50.43	59.85	109.40	218.80	56.48	18.94	*******	*******	
14	4.46	6.80	21.22	33.20	68.87	69.58	90.16	234.00	50.89	18.37	*******	*******	
15	4.28	6.80	21.98	32.00	68.87	94.00	68.33	238.80	46.46	17.80	*******	*******	
16	4.46	7.88	19.13	33.00	68.28	94.00	67.85	231.60	42.86	17.42	*******	*******	
17	4.46	8.42	17.61	31.60	67.42	82.70	68.44	210.75	40.13	17.04	*******	*******	
18	4.82	8.60	16.66	27.30	69.47	63.60	153.80	167.21	40.34	16.66	*******	*******	
19	4.64	8.60	16.09	23.50	100.82	51.81	152.46	130.71	39.92	16.47	*******	*******	
20	4.64	12.20	17.04	21.60	120.40	42.02	148.62	107.72	36.98	16.09	*******	*******	
21	4.46	15.71	18.18	24.26	117.50	47.34	168.00	94.34	35.51	15.71	*******	*******	
22	4.46	18.37	20.84	26.73	92.08	67.52	187.00	87.60	33.83	15.33	*******	*******	
23	4.28	17.04	24.45	33.20	67.36	109.85	178.98	94.68	32.00	15.14	*******	*******	
24	4.64	14.57	30.40	55.76	66.94	92.08	144.22	123.40	30.80	14.57	*******	*******	
25	6.62	14.00	25.02	63.10	68.33	85.74	106.04	149.90	29.80	14.38	*******	*******	
26	12.02	19.51	29.60	49.76	69.58	69.36	85.12	163.26	28.25	14.00	*******	*******	
27	15.71	23.88	44.54	40.97	82.40	67.31	69.20	159.40	27.30	13.64	*******	*******	
28	12.92	21.41	46.68	37.40	68.33	61.35	91.44	130.71	26.54	13.28	*******	*******	
29	11.30	20.46	37.40	46.02	67.63	59.12	115.70	101.20	27.11	13.10		*******	
30	9.86	18.56	30.40	40.34	69.90	69.04	135.86	86.67	33.41	12.92		*******	
31		18.56		33.83	106.88		160.89		36.14	12.56		*******	
TOTAL	184.65	353.91	735.73	1003.60	1974.26	2031.29	3409.14	4473.30	2634.71	579.30	*******	*******	******** CMSDAY
MEAN	6.15	11.42	24.52	32.37	63.69	67.71	109.97	149.11	84.99	18.69	*******	*******	******* CMS
MAX	15.71	23.88	46.68	63.10	120.40	119.40	187.00	238.80	250.40	30.80	*******	*******	250.40 CMS
MIN	4.28	5.90	15.52	19.51	28.25	36.35	67.85	86.67	26.54	12.56	*******	*******	******* CMS
RUNOFF	15.954	30.578	63.567	86.711	170.576	175.503	294.549	386.493	227.639	50.051	*******	*******	******** MCM

MOMENTARY PEAK 253.00 CMS, AT 7.40 M (A.D), AT 18.00 HOURS, ON DEC 5, 1980

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 140.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA WEST COAST

KHLONG CHI AT BAN KHLONG CHI, TRANG (X.107)

LOCATION — LAT. 7°-44'-08" N., LONG. 99°-24'-42" E., ON RIGHT BANK DOWNSTREAM SIDE OF THE BRIDGE OF KRABI-TRANG HIGHWAY, BAN KHLONG CHI, AMPHOE SIKAO, TRANG.

DRAINAGE AREA — 248 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ABOUT 5 METERS FROM THE ABUTMENT OF THE BRIDGE, ON RIGHT BANK FOR B.M.1 AND ON LEFT BANK FOR B.M.2.

ELEVATION — B.M.1=+7.775 M. (A.D.) AND B.M.2=+6.470 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

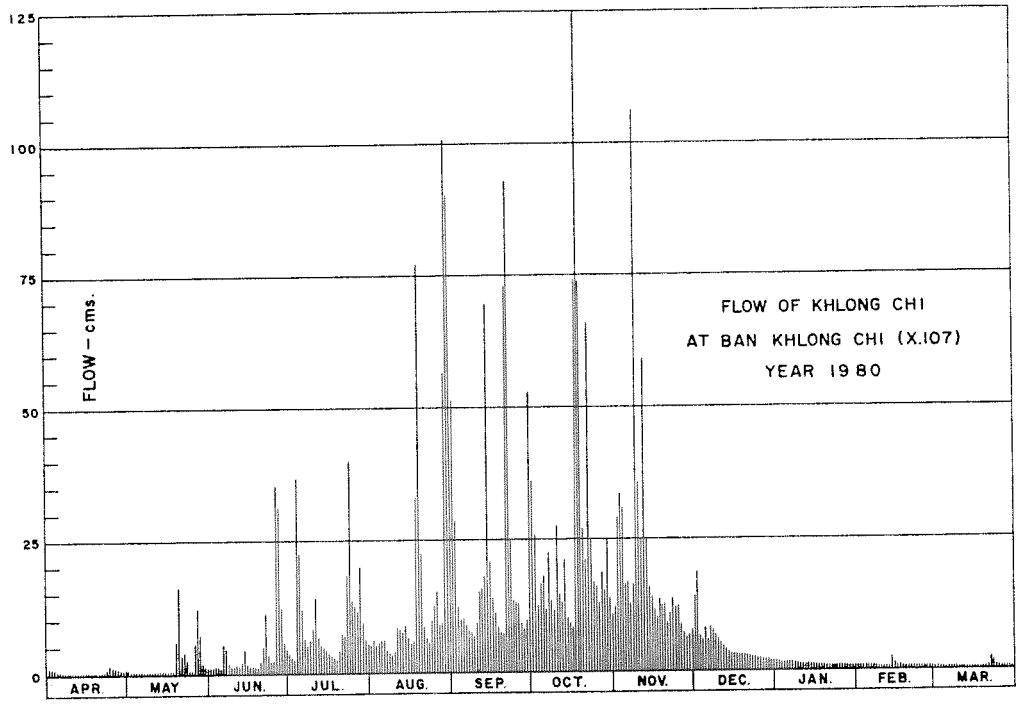
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.25	0.34	0.71	0.88	2.58	2.24	1.42	1.41	0.55	0.37	0.28	
2	0.31	0.22	0.37	0.64	0.99	1.66	2.03	2.24	1.76	0.54	0.37	0.28	
3	0.26	0.21	0.43	0.60	0.88	1.40	1.41	2.42	1.02	0.51	0.36	0.27	
4	0.25	0.20	0.35	2.53	0.95	1.25	1.65	2.28	0.95	0.50	0.35	0.27	
5	0.23	0.18	0.39	1.80	0.99	1.27	1.72	1.65	1.14	0.50	0.35	0.26	
6	0.21	0.22	0.90	1.23	0.98	1.21	1.37	1.67	0.98	0.52	0.34	0.26	
7	0.21	0.26	0.81	0.94	0.78	1.13	1.95	1.34	1.13	0.50	0.33	0.26	
8	0.20	0.23	0.46	0.86	0.74	1.12	1.45	1.62	1.08	0.49	0.33	0.26	
9	0.19	0.23	0.41	1.05	0.71	1.04	1.34	4.62	1.04	0.48	0.33	0.26	
10	0.20	0.19	0.42	1.20	0.80	1.20	2.19	2.32	0.94	0.45	0.33	0.26	
11	0.20	0.23	0.50	1.52	1.16	1.57	1.56	2.06	0.84	0.45	0.33	0.25	
12	0.19	0.21	0.43	1.02	1.11	1.59	1.44	3.32	0.82	0.45	0.32	0.25	
13	0.18	0.20	0.56	0.90	0.94	1.71	1.87	2.04	0.75	0.44	0.32	0.25	
14	0.18	0.21	0.82	0.81	1.17	3.64	1.27	1.61	0.73	0.44	0.63	0.25	
15	0.19	0.26	0.52	0.81	1.02	1.88	1.16	1.48	0.71	0.44	0.45	0.25	
16	0.19	0.29	0.43	0.74	0.92	1.47	1.16	1.37	0.70	0.44	0.35	0.25	
17	0.18	0.25	0.41	0.69	0.98	1.28	4.47	1.27	0.70	0.43	0.33	0.25	
18	0.19	0.27	0.41	0.64	1.34	1.14	5.12	1.49	0.70	0.42	0.32	0.25	
19	0.17	0.30	0.39	0.61	3.88	1.08	3.42	1.37	0.70	0.42	0.32	0.24	
20	0.17	1.62	0.70	0.81	1.59	1.03	2.15	1.45	0.69	0.41	0.31	0.24	
21	0.16	0.69	0.86	1.06	1.13	3.76	1.87	1.21	0.67	0.41	0.31	0.24	
22	0.16	0.77	1.31	1.06	1.03	4.29	3.53	1.35	0.64	0.40	0.31	0.31	
23	0.17	0.61	0.69	1.85	0.93	1.93	1.87	1.49	0.63	0.40	0.30	0.60	
24	0.46	0.35	0.52	2.66	1.25	1.44	1.65	1.37	0.62	0.39	0.30	0.47	
25	0.38	0.34	0.56	1.48	1.45	1.46	1.62	1.42	0.60	0.38	0.29	0.29	
26	0.39	0.46	2.49	1.40	1.57	1.24	1.45	1.22	0.60	0.38	0.29	0.26	
27	0.37	1.36	2.32	1.35	1.18	1.21	1.75	1.07	0.58	0.38	0.29	0.25	
28	0.27	1.05	1.25	1.88	1.22	1.13	1.57	1.00	0.57	0.37	0.29	0.25	
29	0.33	0.50	0.92	1.04	3.37	1.26	2.07	1.03	0.57	0.37		0.25	
30	0.34	0.42	0.80	0.97	4.49	3.12	1.53	1.09	0.59	0.37		0.25	
31		0.35		0.94	4.04		1.31		0.57	0.36		0.25	
MEAN	0.24	0.42	0.73	1.15	1.43	1.70	1.97	1.71	0.82	0.44	0.34	0.28	
MAX	0.46	1.62	2.49	2.66	4.49	4.29	5.12	4.62	1.76	0.55	0.63	0.60	5.12
MIN	0.16	0.18	0.34	0.60	0.71	1.03	1.16	1.00	0.57	0.36	0.29	0.24	0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.35 M (A.D.), AT 18.00 HOURS, ON OCT 17, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.05 M (A.D.)

LEFT BANK ELEVATION 7.50 M (A.D.)

RIGHT BANK ELEVATION 9.96 M (A.D.), DRAINAGE AREA 248 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.31	0.76	3.30	5.00	37.88	29.16	12.72	12.56	2.05	0.88	0.48	
2	0.64	0.14	0.88	2.72	6.28	16.88	24.46	29.16	18.80	1.98	0.88	0.48	
3	0.37	0.08	1.21	2.40	5.00	12.40	12.56	33.72	6.68	1.77	0.84	0.43	
4	0.31	0.02	0.80	36.58	5.80	10.00	16.70	30.12	5.80	1.70	0.80	0.43	
5	0.19	0.02	0.96	19.60	6.28	10.32	18.00	16.70	8.36	1.70	0.80	0.37	
6	0.08	0.14	5.20	9.68	6.16	9.36	11.92	17.06	6.16	1.84	0.76	0.37	
7	0.08	0.37	4.30	5.68	4.00	8.22	22.70	11.44	8.22	1.70	0.72	0.37	
8	0.02	0.19	1.42	4.80	3.60	8.08	13.20	16.16	7.52	1.63	0.72	0.37	
9	0.02	0.19	1.07	7.10	3.30	6.96	11.44	106.04	6.96	1.56	0.72	0.37	
10	0.02	0.02	1.14	9.20	4.20	9.20	27.98	31.12	5.68	1.35	0.72	0.37	
11	0.02	0.19	1.70	14.36	8.64	15.26	15.08	25.12	4.60	1.35	0.72	0.31	
12	0.02	0.08	1.21	6.68	7.94	15.62	13.04	59.24	4.40	1.35	0.68	0.31	
13	0.02	0.02	2.12	5.20	5.68	17.80	21.00	24.68	3.70	1.28	0.68	0.31	
14	0.02	0.08	4.40	4.30	8.78	69.48	10.32	15.98	3.50	1.28	2.64	0.31	
15	0.02	0.37	1.84	4.30	6.68	21.20	8.64	13.68	3.30	1.28	1.35	0.31	
16	0.02	0.54	1.21	3.60	5.44	13.52	8.64	11.92	3.20	1.28	0.80	0.31	
17	0.02	0.31	1.07	3.12	6.16	10.48	100.00	10.32	3.20	1.21	0.72	0.31	
18	0.02	0.43	1.07	2.72	11.44	8.36	127.79	13.84	3.20	1.14	0.68	0.31	
19	0.01	0.60	0.96	2.48	77.32	7.52	62.44	11.92	3.20	1.14	0.68	0.25	
20	0.01	16.16	3.20	4.30	15.62	6.82	27.10	13.20	3.12	1.07	0.64	0.25	
21	0.01	3.12	4.80	7.24	8.22	73.32	21.00	9.36	2.96	1.07	0.64	0.25	
22	0.01	3.90	10.96	7.24	6.82	92.80	65.96	11.60	2.72	1.00	0.64	0.64	
23	0.01	2.48	3.12	20.60	5.56	22.26	21.00	13.84	2.64	1.00	0.60	2.40	
24	1.42	0.80	1.84	39.96	10.00	13.04	16.70	11.92	2.56	0.96	0.60	1.49	
25	0.92	0.76	2.12	13.68	13.20	13.36	16.16	12.72	2.40	0.92	0.54	0.54	
26	0.96	1.42	35.54	12.40	15.26	9.84	13.20	9.52	2.40	0.92	0.54	0.37	
27	0.88	11.76	31.12	11.60	8.92	9.36	18.60	7.38	2.26	0.92	0.54	0.31	
28	0.43	7.10	10.00	21.20	9.52	8.22	15.26	6.40	2.19	0.88	0.54	0.31	
29	0.72	1.70	5.44	6.96	60.84	10.16	25.34	6.82	2.19	0.88		0.31	
30	0.76	1.14	4.20	6.04	100.80	53.20	14.54	7.66	2.33	0.88		0.31	
31		0.80		5.68	83.12		10.96		2.19	0.84		0.31	
TOTAL	8.83	55.24	145.66	304.72	525.58	620.92	820.89	601.36	149.00	39.93	22.07	14.26	3308.46 CMSDAY
MEAN	0.29	1.78	4.86	9.83	16.95	20.70	26.48	20.05	4.81	1.29	0.79	0.46	9.06 CMS
MAX	1.42	16.16	35.54	39.96	100.80	92.80	127.79	106.04	18.80	2.05	2.64	2.40	127.79 CMS
MIN	0.01	0.02	0.76	2.40	3.30	6.82	8.64	6.40	2.19	0.84	0.54	0.25	0.01 CMS
RUNOFF	0.763	4.773	12.585	26.328	45.410	53.647	70.925	51.957	12.874	3.450	1.907	1.232	285.851 MCM

MOMENTARY PEAK 184.90 CMS, AT 6.35 M (A.D), AT 18.00 HOURS, ON OCT 17, 1980
RUNOFF YIELD 36.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 745.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA WEST COAST

KHLONG KALASE YAI AT BAN ROM MUANG, TRANG (X.108)

LOCATION — LAT. 7°-44'-03" N., LONG. 99°-20'-00" E., AT BAN ROM MUANG, AMPHOE SIKAO, TRANG.

DRAINAGE AREA — 57 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE LADDER OF OBSERVER'S HOUSE.

ELEVATION — +4.771 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

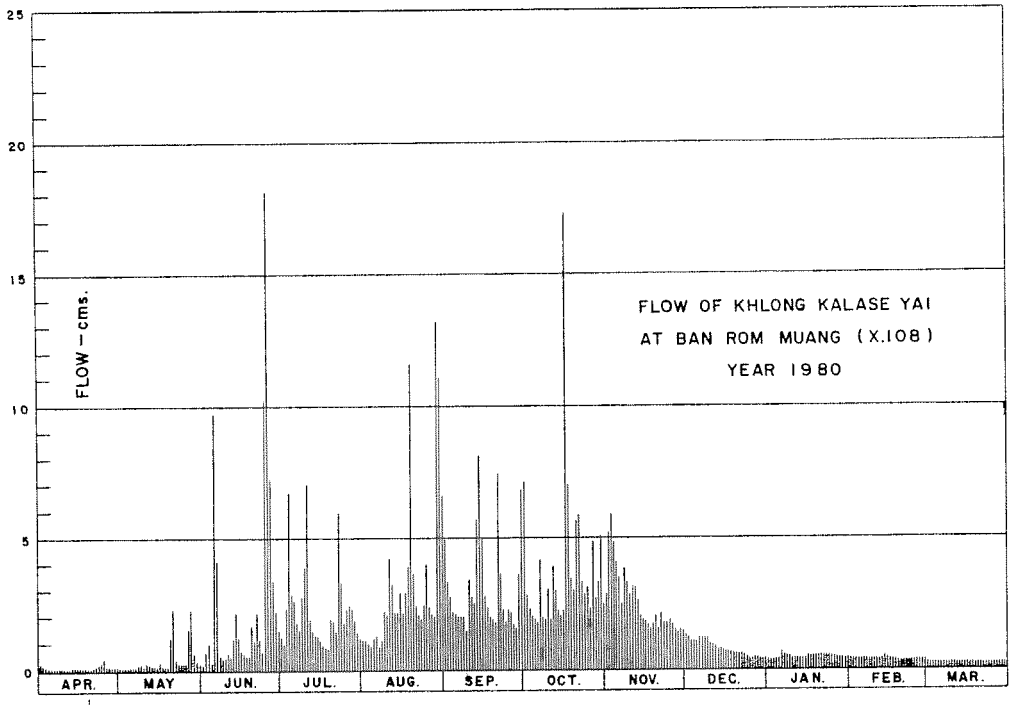
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.77	0.62	0.78	1.35	1.29	2.34	2.74	1.85	1.39	0.96	0.94	0.83	
2	0.67	0.61	1.06	1.27	1.31	1.96	1.86	2.39	1.37	0.96	0.97	0.83	
3	0.63	0.60	1.25	1.71	1.24	1.78	1.72	2.51	1.31	0.96	0.97	0.82	
4	0.62	0.60	1.01	2.67	1.21	1.67	1.63	2.27	1.28	0.96	0.96	0.81	
5	0.62	0.60	0.87	1.83	1.32	1.65	1.58	2.18	1.30	0.96	0.97	0.80	
6	0.61	0.62	3.16	1.79	1.36	1.63	1.54	2.02	1.36	1.11	0.96	0.80	
7	0.60	0.71	1.17	1.52	1.22	1.61	2.14	1.76	1.39	1.01	0.95	0.83	
8	0.60	0.64	1.02	1.43	1.30	1.62	1.57	2.09	1.36	0.99	0.94	0.82	
9	0.60	0.80	0.96	1.73	1.68	1.46	1.58	1.94	1.37	0.98	0.94	0.81	
10	0.60	0.68	1.00	2.15	1.63	1.99	1.88	1.84	1.26	0.97	0.94	0.80	
11	0.60	0.78	1.05	2.72	2.16	1.81	1.59	1.93	1.21	0.96	0.93	0.79	
12	0.60	0.68	1.03	1.52	1.99	1.74	2.11	1.93	1.19	0.95	0.95	0.78	
13	0.60	0.65	1.49	1.42	1.66	2.52	1.84	1.74	1.18	0.95	0.93	0.78	
14	0.60	0.64	1.65	1.37	1.68	2.92	1.67	1.65	1.16	0.94	1.03	0.78	
15	0.59	0.64	1.20	1.37	1.86	2.13	1.61	1.59	1.13	0.93	0.97	0.77	
16	0.59	0.85	1.07	1.27	1.65	1.86	1.68	1.54	1.11	1.04	0.93	0.76	
17	0.59	0.72	1.07	1.21	1.84	1.73	4.19	1.50	1.11	1.01	0.92	0.75	
18	0.61	0.65	1.00	1.17	2.18	1.61	2.37	1.48	1.10	0.99	0.91	0.74	
19	0.60	0.65	0.99	1.16	3.44	1.57	1.98	1.55	1.09	0.98	0.90	0.74	
20	0.60	1.31	1.47	1.57	2.01	1.54	1.91	1.62	1.08	0.98	0.89	0.73	
21	0.60	1.66	1.26	1.54	1.76	2.79	2.48	1.49	1.06	1.01	0.90	0.73	
22	0.73	0.95	1.65	1.46	1.64	1.97	2.52	1.65	1.05	1.00	0.90	0.81	
23	0.68	0.81	1.18	2.52	1.54	1.67	1.97	1.56	1.04	0.99	0.89	0.79	
24	0.80	0.76	1.11	1.97	1.73	1.56	1.87	1.53	1.02	0.98	0.88	0.79	
25	0.97	0.80	2.71	1.56	2.13	1.71	1.92	1.58	0.99	0.98	0.87	0.77	
26	0.71	0.77	4.29	1.69	1.76	1.66	1.71	1.52	0.96	0.98	0.86	0.74	
27	0.68	1.67	2.29	1.75	1.65	1.52	2.32	1.45	1.01	0.97	0.86	0.73	
28	0.64	1.41	1.88	1.70	1.60	1.48	1.80	1.40	0.98	0.96	0.85	0.70	
29	0.63	1.01	1.56	1.51	3.68	1.89	1.97	1.49	0.96	0.95		0.70	
30	0.62	0.88	1.45	1.41	3.54	2.60	2.35	1.44	0.96	0.94		0.71	
31		0.82		1.34	2.66		1.76		0.98	0.94		0.71	
MEAN	0.65	0.83	1.46	1.63	1.86	1.87	2.00	1.75	1.15	0.98	0.93	0.77	
MAX	0.97	1.67	4.29	2.72	3.68	2.92	4.19	2.51	1.39	1.11	1.03	0.83	4.29
MIN	0.59	0.60	0.78	1.16	1.21	1.46	1.54	1.40	0.96	0.93	0.85	0.70	0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.53 M (A.D), AT 12.00 HOURS, ON OCT 17, 1980

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.30 M (A.D)

LEFT BANK ELEVATION 6.65 M (A.D)

RIGHT BANK ELEVATION 6.48 M (A.D), DRAINAGE AREA 57 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.08	0.23	1.28	1.14	5.02	7.14	2.91	1.38	0.47	0.44	0.29	
2	0.12	0.07	0.64	1.09	1.18	3.35	2.95	5.27	1.33	0.47	0.48	0.29	
3	0.09	0.06	1.04	2.39	1.02	2.65	2.42	5.87	1.18	0.47	0.48	0.28	
4	0.08	0.06	0.55	6.73	0.95	2.24	2.10	4.68	1.11	0.47	0.47	0.26	
5	0.08	0.06	0.34	2.83	1.21	2.17	1.94	4.28	1.16	0.47	0.48	0.25	
6	0.07	0.08	9.79	2.68	1.31	2.10	1.82	3.60	1.31	0.73	0.47	0.25	
7	0.06	0.16	0.86	1.76	0.98	2.03	4.10	2.57	1.38	0.55	0.45	0.29	
8	0.06	0.10	0.57	1.50	1.16	2.07	1.91	3.88	1.31	0.51	0.44	0.28	
9	0.06	0.25	0.47	2.46	2.28	1.58	1.94	3.27	1.33	0.50	0.44	0.26	
10	0.06	0.13	0.53	4.14	2.10	3.48	3.02	2.87	1.07	0.48	0.44	0.25	
11	0.06	0.23	0.62	7.02	4.19	2.76	1.97	3.23	0.95	0.47	0.42	0.24	
12	0.06	0.13	0.58	1.76	3.48	2.50	3.96	3.23	0.91	0.45	0.45	0.23	
13	0.06	0.11	1.67	1.47	2.21	5.93	2.87	2.50	0.89	0.45	0.42	0.23	
14	0.06	0.10	2.17	1.33	2.28	8.23	2.24	2.17	0.84	0.44	0.58	0.23	
15	0.05	0.10	0.93	1.33	2.95	4.05	2.03	1.97	0.78	0.42	0.48	0.22	
16	0.05	0.31	0.66	1.09	2.17	2.95	2.28	1.82	0.73	0.60	0.42	0.21	
17	0.05	0.17	0.66	0.95	2.87	2.46	17.37	1.70	0.73	0.55	0.41	0.20	
18	0.07	0.11	0.53	0.86	4.28	2.03	5.17	1.64	0.71	0.51	0.39	0.19	
19	0.06	0.11	0.51	0.84	11.64	1.91	3.44	1.85	0.69	0.50	0.38	0.19	
20	0.06	1.18	1.61	1.91	3.56	1.82	3.14	2.07	0.67	0.50	0.37	0.18	
21	0.06	2.21	1.07	1.82	2.57	7.44	5.72	1.67	0.64	0.55	0.38	0.18	
22	0.18	0.45	2.17	1.58	2.14	3.39	5.93	2.17	0.62	0.53	0.38	0.26	
23	0.13	0.26	0.89	5.93	1.82	2.24	3.39	1.88	0.60	0.51	0.37	0.24	
24	0.25	0.21	0.73	3.39	2.46	1.88	2.99	1.79	0.57	0.50	0.35	0.24	
25	0.48	0.25	6.96	1.88	4.05	2.39	3.18	1.94	0.51	0.50	0.34	0.22	
26	0.16	0.22	18.17	2.31	2.57	2.21	2.39	1.76	0.47	0.50	0.33	0.19	
27	0.13	2.24	4.77	2.53	2.17	1.76	4.92	1.55	0.55	0.48	0.33	0.18	
28	0.10	1.44	3.02	2.35	2.00	1.64	2.72	1.41	0.50	0.47	0.31	0.15	
29	0.09	0.55	1.88	1.73	13.40	3.06	3.39	1.67	0.47	0.45		0.15	
30	0.08	0.35	1.55	1.44	12.36	6.35	5.07	1.53	0.47	0.44		0.16	
31		0.28		1.26	6.68		2.57		0.50	0.44		0.16	
TOTAL	3.14	12.06	66.17	71.64	105.18	93.69	116.08	78.75	26.36	15.38	11.70	6.95	607.10 CMSDAY
MEAN	0.10	0.39	2.21	2.31	3.39	3.12	3.74	2.62	0.85	0.50	0.42	0.22	1.66 CMS
MAX	0.48	2.24	18.17	7.02	13.40	8.23	17.37	5.87	1.38	0.73	0.58	0.29	18.17 CMS
MIN	0.05	0.06	0.23	0.84	0.95	1.58	1.82	1.41	0.47	0.42	0.31	0.15	0.05 CMS
RUNOFF	0.271	1.042	5.717	6.190	9.088	8.095	10.029	6.804	2.278	1.329	1.011	0.600	52.453 MCM

MOMENTARY PEAK 30.36 CMS, AT 5.53 M (A.D), AT 12.00 HOURS, ON OCT 17, 1980
RUNOFF YIELD 29.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 532.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1980

SOUTHERN PENINSULA WEST COAST

KHLONG LAMPHU LA AT BAN THUNG NGIU, TRANG (X.110)

LOCATION — LAT. 7°-40'-24" N., LONG. 99°-35'-05" E., AT BAN THUNG NGIU, AMPHOE HUAI YOT, TRANG.

DRAINAGE AREA — 229 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ON RIGHT BANK NEAR THE GAGE SITE.

ELEVATION — +5.612 M.(A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

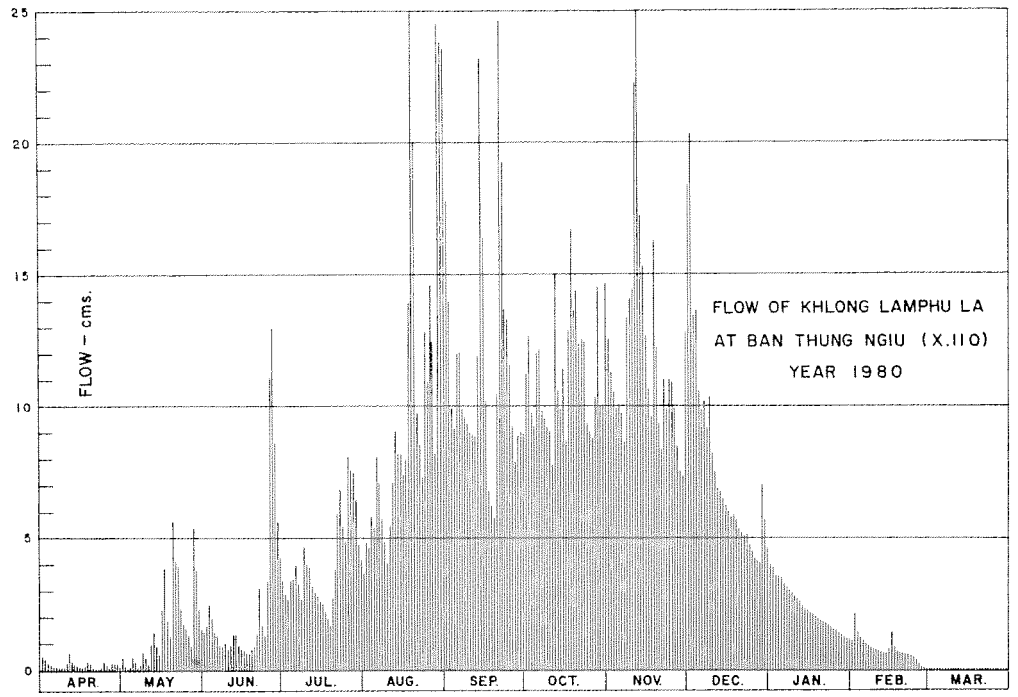
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.65	0.85	1.13	1.16	2.78	2.78	2.24	2.76	1.19	0.81	0.67	
2	0.68	0.63	0.89	1.05	1.30	2.18	2.21	2.09	3.01	1.19	0.95	0.65	
3	0.67	0.63	1.00	1.03	1.28	1.86	1.90	1.96	2.29	1.15	0.86	0.64	
4	0.66	0.63	0.90	1.13	1.42	1.68	1.82	1.91	2.31	1.14	0.83	0.63	
5	0.66	0.72	0.85	1.13	1.35	1.62	2.14	1.93	2.01	1.14	0.81	0.63	
6	0.65	0.69	0.83	1.20	1.70	1.58	2.15	1.89	1.89	1.11	0.79	0.63	
7	0.65	0.60	0.80	1.08	1.48	1.54	1.89	1.65	1.93	1.09	0.78	0.62	
8	0.65	0.64	0.78	1.02	1.41	1.47	1.87	2.27	1.83	1.08	0.77	0.61	
9	0.64	0.74	0.80	1.27	1.29	1.43	1.84	2.35	1.95	1.07	0.76	0.60	
10	0.64	0.70	0.77	1.21	1.21	1.81	1.81	2.41	1.74	1.05	0.75	0.60	
11	0.73	0.66	0.76	1.19	1.41	1.80	1.67	3.23	1.66	1.03	0.75	0.59	
12	0.69	0.80	0.84	1.10	1.62	1.78	2.46	3.60	1.56	1.02	0.75	0.59	
13	0.67	0.85	0.84	1.07	1.80	1.75	1.99	2.72	1.54	1.00	0.74	0.58	
14	0.66	0.76	0.78	1.05	1.71	3.31	1.91	2.35	1.50	0.98	0.74	0.58	
15	0.66	0.73	0.76	1.01	1.71	2.54	2.07	2.21	1.47	0.96	0.77	0.57	
16	0.65	0.94	0.75	1.01	1.62	1.97	1.77	1.98	1.45	0.96	0.85	0.56	
17	0.65	1.18	0.74	0.96	1.68	1.54	2.22	1.87	1.43	0.95	0.77	0.56	
18	0.69	0.91	0.73	0.90	2.06	1.47	2.73	2.60	1.44	0.95	0.75	0.56	
19	0.68	0.83	0.75	0.88	3.59	1.45	2.31	2.12	1.42	0.94	0.74	0.55	
20	0.65	1.41	0.77	1.03	2.50	1.39	2.39	1.86	1.36	0.92	0.74	0.55	
21	0.64	1.22	0.83	1.23	1.88	3.45	2.17	1.73	1.35	0.91	0.73	0.55	
22	0.64	1.19	1.08	1.45	1.63	3.11	2.19	2.03	1.33	0.90	0.73	0.54	
23	0.64	0.99	0.91	1.55	1.49	2.29	2.18	1.91	1.34	0.89	0.72	0.53	
24	0.69	0.89	0.84	1.38	2.23	2.28	1.73	2.02	1.29	0.88	0.70	0.53	
25	0.66	0.87	1.17	1.31	2.01	2.05	1.69	2.01	1.26	0.87	0.68	0.53	
26	0.65	0.84	1.98	1.70	2.42	1.80	1.65	1.88	1.23	0.86	0.67	0.53	
27	0.69	0.77	2.25	1.63	1.98	1.67	1.97	1.74	1.21	0.85	0.66	0.52	
28	0.67	1.36	1.61	1.62	1.70	1.79	2.41	1.64	1.21	0.84	0.65	0.52	
29	0.67	1.13	1.36	1.51	3.44	1.81	1.92	1.61	1.56	0.83		0.52	
30	0.66	0.96	1.21	1.30	3.37	2.66	1.93	2.16	1.40	0.83		0.51	
31		0.87		1.23	3.35		2.43		1.27	0.82		0.51	
MEAN	0.67	0.86	0.98	1.21	1.90	2.00	2.07	2.13	1.65	0.98	0.76	0.57	
MAX	0.73	1.41	2.25	1.70	3.59	3.45	2.78	3.60	3.01	1.19	0.95	0.67	3.60
MIN	0.64	0.60	0.73	0.88	1.16	1.39	1.65	1.61	1.21	0.82	0.65	0.51	0.51

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.74 M (A.D), AT 18.00 HOURS, ON SEP 21, 1980

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.21 M (A.D)

LEFT BANK ELEVATION — 8.48 M (A.D)

RIGHT BANK ELEVATION — 7.64 M (A.D), DRAINAGE AREA — 229 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.53	0.07	1.40	3.47	3.70	18.06	18.06	12.96	17.87	3.92	1.12	0.20	
2	0.27	0.00	1.68	2.87	4.80	12.42	12.69	11.61	20.29	3.92	2.12	0.07	
3	0.20	0.00	2.50	2.73	4.64	9.54	9.90	10.44	13.41	3.62	1.47	0.00	
4	0.13	0.00	1.75	3.47	5.77	7.98	9.18	9.99	13.60	3.55	1.26	0.00	
5	0.13	0.53	1.40	3.47	5.20	7.47	12.06	10.17	10.89	3.55	1.12	0.00	
6	0.07	0.33	1.26	4.00	8.15	7.13	12.15	9.81	9.81	3.32	0.99	0.00	
7	0.07	0.00	1.05	3.10	6.28	6.79	9.81	7.72	10.17	3.17	0.92	0.00	
8	0.07	0.00	0.92	2.65	5.68	6.19	9.63	13.23	9.27	3.10	0.86	0.00	
9	0.00	0.66	1.05	4.56	4.72	5.85	9.36	13.97	10.35	3.02	0.79	0.00	
10	0.00	0.40	0.86	4.08	4.08	9.09	9.09	14.54	9.49	2.87	0.73	0.00	
11	0.59	0.13	0.79	3.92	5.68	9.00	7.89	22.46	7.81	2.73	0.73	0.00	
12	0.33	1.05	1.33	3.25	7.47	8.83	15.02	26.11	6.96	2.65	0.73	0.00	
13	0.20	1.40	1.33	3.02	9.00	8.57	10.71	17.49	6.79	2.50	0.66	0.00	
14	0.13	0.79	0.92	2.87	8.23	23.25	9.99	13.97	6.45	2.35	0.66	0.00	
15	0.13	0.59	0.79	2.57	8.23	15.78	11.43	12.69	6.19	2.20	0.86	0.00	
16	0.07	2.05	0.73	2.57	7.47	10.53	8.74	10.62	6.02	2.20	1.40	0.00	
17	0.07	3.85	0.66	2.20	7.08	6.79	12.78	9.63	5.85	2.12	0.86	0.00	
18	0.33	1.82	0.59	1.75	11.34	6.19	17.58	16.35	5.94	2.12	0.73	0.00	
19	0.27	1.26	0.73	1.61	26.01	6.02	13.60	11.88	5.77	2.05	0.66	0.00	
20	0.07	5.68	0.86	2.73	15.40	5.52	14.35	9.54	5.28	1.90	0.66	0.00	
21	0.00	4.16	1.26	4.24	9.72	24.63	12.33	8.40	5.20	1.82	0.59	0.00	
22	0.00	3.92	3.10	6.02	7.55	21.27	12.51	11.07	5.04	1.75	0.59	0.00	
23	0.00	2.42	1.82	6.87	6.36	13.41	12.42	9.99	5.12	1.68	0.53	0.00	
24	0.33	1.68	1.33	5.44	12.87	13.32	8.40	10.98	4.72	1.61	0.40	0.00	
25	0.13	1.54	3.77	4.39	10.39	11.25	8.06	10.89	4.48	1.54	0.27	0.00	
26	0.07	1.33	10.62	9.15	14.64	9.00	7.72	9.72	4.24	1.47	0.20	0.00	
27	0.33	0.86	13.05	7.55	10.62	7.89	10.53	8.49	4.08	1.40	0.13	0.00	
28	0.20	5.28	7.38	7.47	8.15	8.91	14.54	7.64	4.08	1.33	0.07	0.00	
29	0.20	3.47	5.28	6.53	24.53	9.09	15.08	7.38	6.96	1.26		0.00	
30	0.13	2.20	4.08	4.80	23.84	16.92	10.17	12.24	5.60	1.26		0.00	
31		1.54		4.24	23.64		14.73		4.56	1.19		0.00	
TOTAL	5.05	49.01	74.29	127.08	312.64	326.69	355.51	361.98	241.29	73.17	22.11	0.27	1949.09 CMSDAY
MEAN	0.17	1.63	2.48	4.10	10.09	10.89	11.47	12.07	7.78	2.36	0.79	0.01	5.34 CMS
MAX	0.59	5.68	13.05	9.15	26.01	24.63	18.06	26.11	20.29	3.92	2.12	0.20	26.11 CMS
MIN	0.00	0.00	0.59	1.61	3.70	5.52	7.72	7.38	4.08	1.19	0.07	0.00	0.00 CMS
RUNOFF	0.436	4.234	6.419	10.980	27.012	28.226	30.716	31.275	20.847	6.322	1.910	0.023	168.401 MCM

MOMENTARY PEAK 38.02 CMS, AT 4.74 M (A.S.), AT 18.00 HOURS, ON SEP 21, 1980
RUNOFF YIELD 33.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 166.03 LITERS/SECOND/SQUARE KM