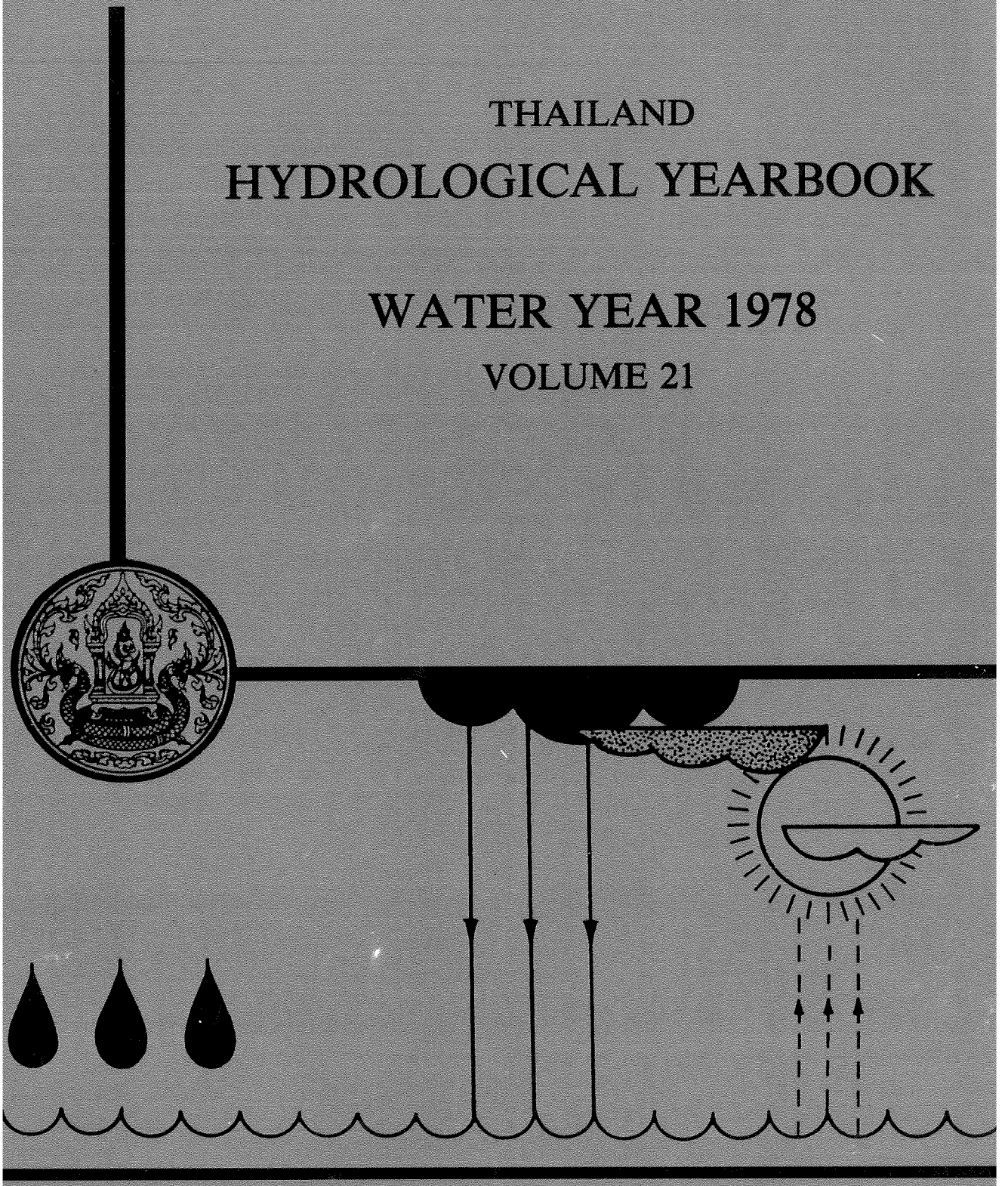
THAILAND
HYDROLOGICAL YEARBOOK

WATER YEAR 1978
VOLUME 21



ROYAL IRRIGATION DEPARTMENT
HYDROLOGY DIVISION
BANGKOK

THAILAND
HYDROLOGICAL YEARBOOK

WATER YEAR 1978
VOLUME 21

Hydrology No. 497/78

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Volume 21

Royal Irrigation Department
Hydrology Division
Bangkok

FOREWORD

The programme of yearbook publications was initiated in 1966 Great efforts have been made in editing as well as the setting up of standard for yearbook publication. The previously processed data have been reviewed and arranged in serial order or volumes to be published. The first issue was published in 1968 as Volume 8. It presents records, during the 1965 water year, of stage and discharge of 59 streams at 86 actual streamflow calibrating sites and at 27 previously calibrated ones. Up till now 20 volumes of yearbooks presenting streamflow data as early as 1912 up to 1977 totalling 3,404 station-years of record had been published.

This Volume 21 which is the twenty-first issue of the series, was prepared by the Data Processing Section. It presents records, during the 1978 water year, of stage and discharge of 130 streams at 137 currently calibrating sites and at 73 previously or subsequently calibrating ones.

Some remarks are made under each station description.

Hydrology Division

May 1982

ACKNOWLEDGEMENT

The editorial staff of this hydrological yearbook publication feels particularly indebted to Mr. Boonchob Kanchanalak, former Senior Engineer Hydrologist of the Royal Irrigation Department, who had initiated and directed the editing work of 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 21 issue.

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LOCATION MAP OF HYDROLOGIC OBSERVATION STATION IN 1978 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

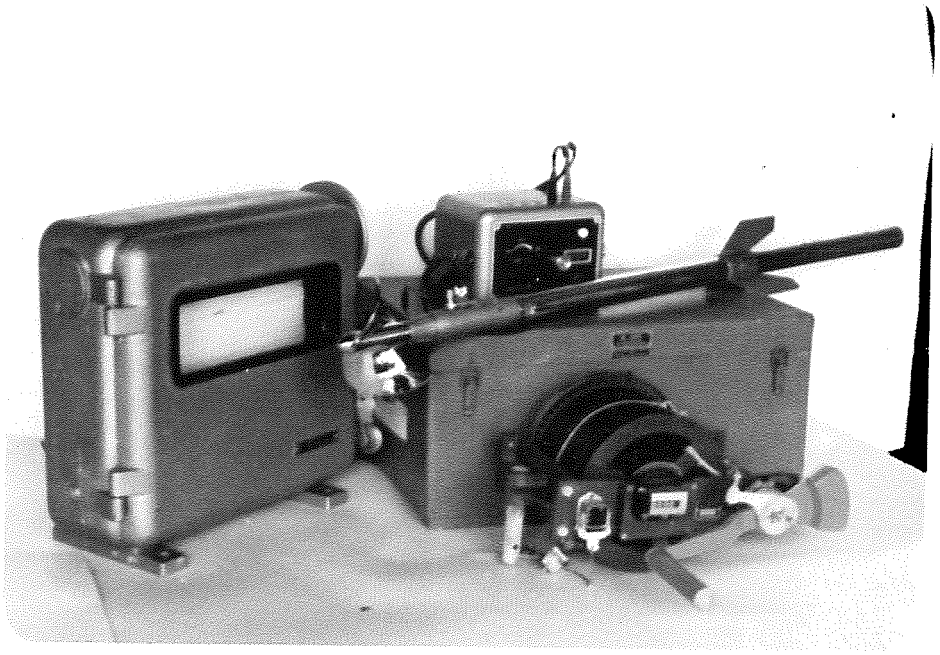


Fig.5 Standard hydrologic equipment

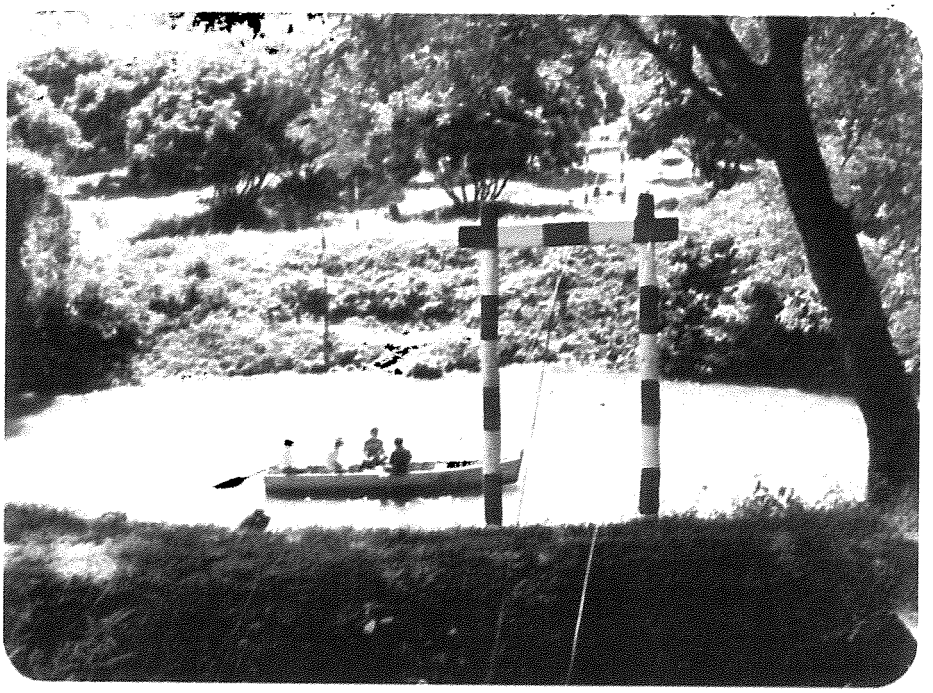


Fig.6 Measuring line

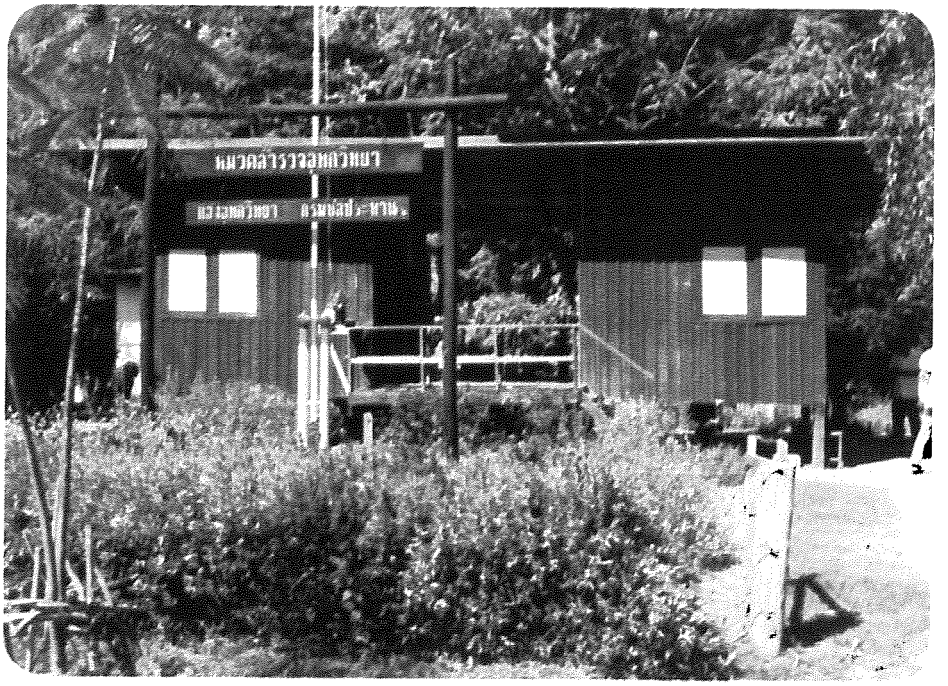


Fig.7 Camp for hydrological station

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

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.

XVI

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

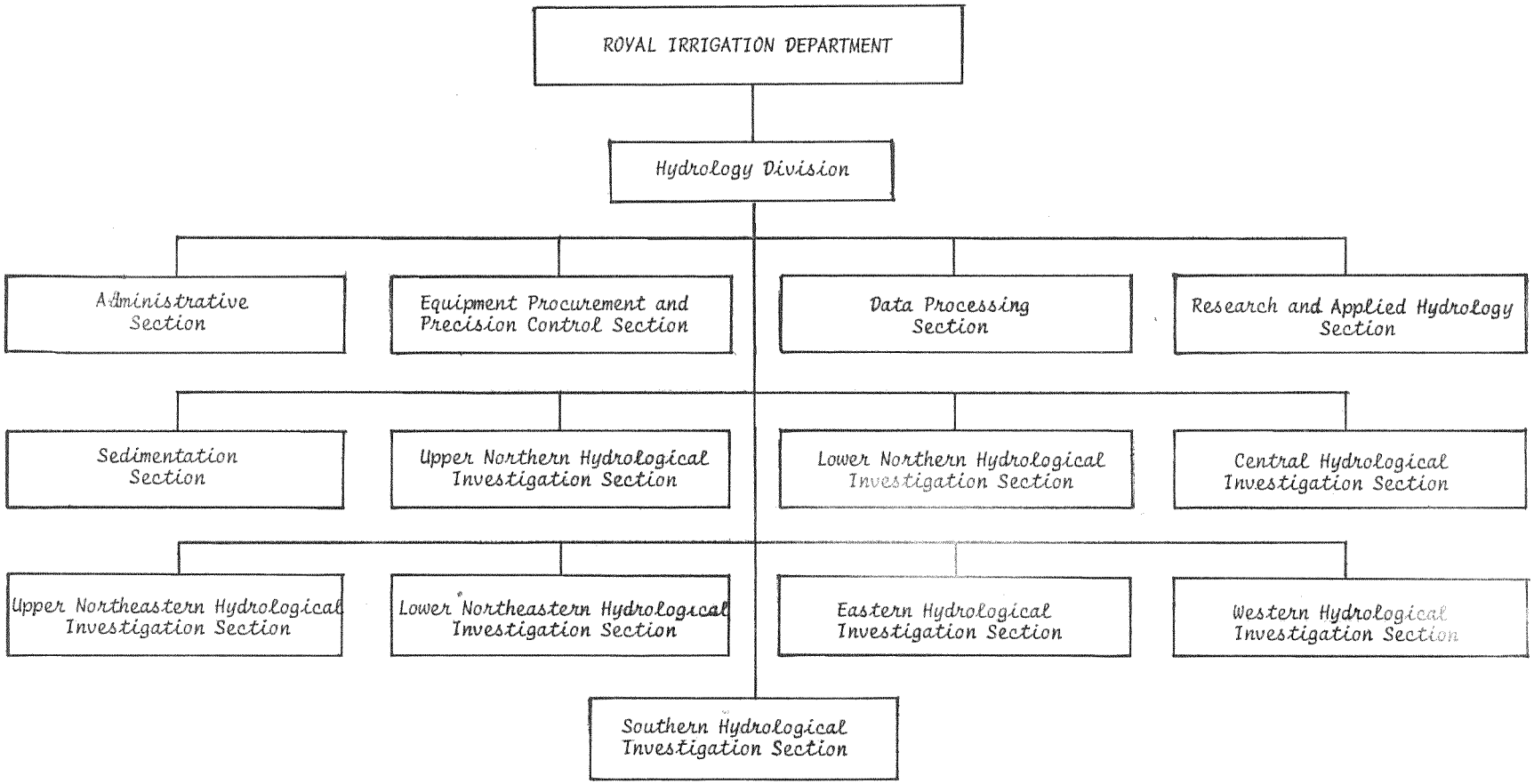
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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)

* * * * * * * *

Stream Gaging Data

Water Year 1978

WATER YEAR 1978

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.S.

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.

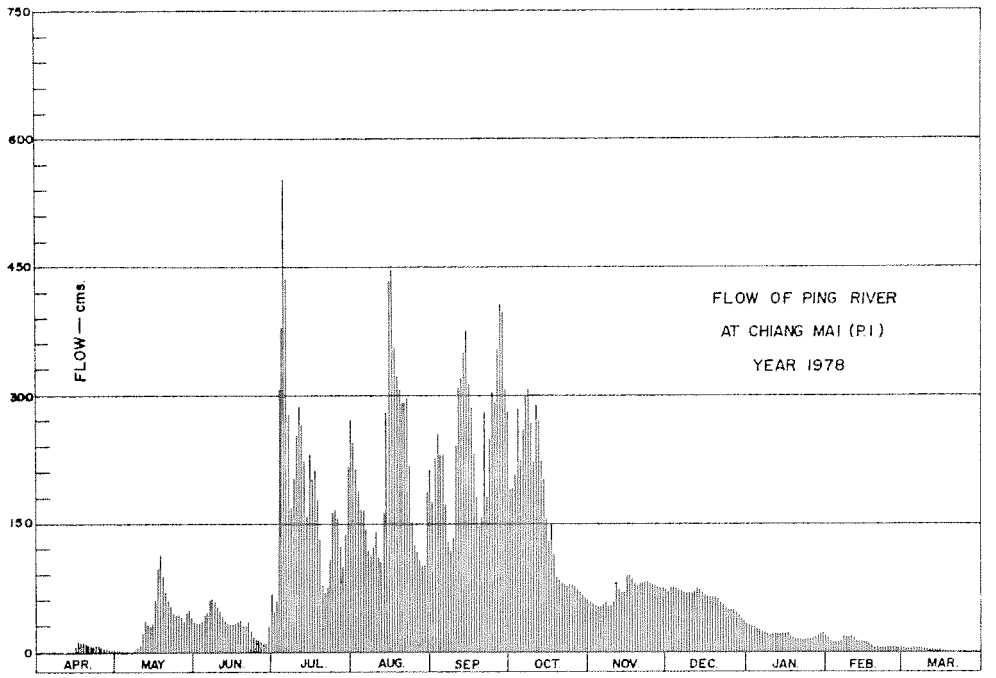
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1978. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 11,200 HECTARES AT MAE FAEK WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	300.87	300.97	301.40	301.51	302.38	302.13	302.18	301.59	301.66	301.40	301.26	301.05	
2	300.88	300.95	301.41	301.56	302.28	302.33	302.19	301.58	301.69	301.39	301.23	301.05	
3	300.89	300.92	301.42	302.41	302.23	302.42	302.26	301.57	301.69	301.38	301.20	301.05	
4	300.91	300.88	301.45	303.37	302.10	302.34	302.55	301.55	301.68	301.36	301.20	301.05	
5	300.91	300.87	301.49	304.38	302.10	302.34	302.32	301.55	301.68	301.34	301.20	301.04	
6	300.93	300.88	301.57	303.46	301.97	302.13	302.40	301.56	301.67	301.32	301.20	301.03	
7	300.92	300.92	301.61	302.32	301.90	301.93	302.69	301.60	301.66	301.32	301.26	301.03	
8	300.90	300.97	301.60	302.11	301.86	301.88	302.74	301.55	301.65	301.29	301.26	301.01	
9	300.88	301.01	301.57	302.26	301.93	301.95	302.45	301.56	301.65	301.28	301.26	300.98	
10	300.88	301.11	301.52	302.38	301.99	302.42	302.31	301.60	301.64	301.30	301.27	300.98	
11	300.88	301.36	301.47	302.54	301.86	302.75	302.60	301.72	301.66	301.29	301.26	300.98	
12	300.88	301.43	301.42	302.47	301.82	302.83	302.50	301.67	301.69	301.28	301.20	300.98	
13	300.90	301.40	301.41	302.28	302.02	303.04	302.32	301.65	301.68	301.31	301.20	300.97	
14	300.92	301.37	301.40	302.07	302.89	303.24	302.12	301.65	301.65	301.31	301.19	300.96	
15	301.07	301.40	301.40	302.34	303.58	303.02	302.00	301.74	301.64	301.29	301.20	300.94	
16	301.21	301.56	301.41	302.22	303.71	302.64	301.94	301.76	301.63	301.31	301.20	300.95	
17	301.20	301.78	301.41	302.27	303.15	302.37	302.05	301.73	301.63	301.27	301.17	300.95	
18	301.18	301.87	301.44	302.19	302.97	302.18	301.82	301.71	301.63	301.24	301.12	300.94	
19	301.17	301.80	301.40	301.90	302.75	302.02	301.75	301.70	301.63	301.23	301.09	300.91	
20	301.16	301.69	301.38	301.73	302.72	302.05	301.73	301.71	301.61	301.23	301.07	300.90	
21	301.12	301.60	301.41	301.65	302.55	302.51	301.71	301.71	301.59	301.23	301.06	300.88	
22	301.10	301.54	301.33	301.68	302.64	302.16	301.71	301.72	301.54	301.23	301.05	300.88	
23	301.12	301.51	301.27	301.83	302.30	302.37	301.70	301.73	301.53	301.24	301.04	300.88	
24	301.13	301.48	301.24	302.08	302.06	302.72	301.69	301.72	301.53	301.24	301.05	300.88	
25	301.08	301.49	301.22	302.10	301.94	302.59	301.71	301.71	301.52	301.25	301.06	300.88	
26	301.04	301.47	301.20	302.05	301.91	303.02	301.70	301.70	301.53	301.26	301.08	300.88	
27	301.01	301.41	301.18	301.91	301.85	303.46	301.67	301.69	301.51	301.27	301.07	300.88	
28	300.99	301.49	301.18	301.80	301.80	303.38	301.65	301.68	301.49	301.28	301.06	300.88	
29	300.98	301.52	301.35	301.94	301.80	302.69	301.64	301.68	301.43	301.29		300.88	
30	300.97	301.49	301.64	302.24	302.06	302.35	301.62	301.67	301.41	301.31		300.88	
31		301.42		302.47	302.23		301.60		301.41	301.30		300.88	
MEAN	301.00	301.34	301.41	302.24	302.30	302.51	302.04	301.66	301.60	301.29	301.16	300.95	
MAX	301.21	301.87	301.64	304.38	303.71	303.46	302.74	301.76	301.69	301.40	301.27	301.05	304.38
MIN	300.87	300.87	301.18	301.51	301.80	301.88	301.60	301.55	301.41	301.23	301.04	300.88	300.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 304.48 M (MSL), AT 13.00 HOURS, ON JUL 5, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	2.10	33.00	47.49	243.19	174.79	187.79	59.50	71.20	33.00	18.40	5.00	
2	0.00	1.50	34.30	54.99	214.60	228.69	190.40	58.00	76.30	31.90	15.70	5.00	
3	0.00	0.60	35.60	252.00	201.10	255.00	209.19	56.49	76.30	30.80	13.00	5.00	
4	0.30	0.00	39.50	395.49	167.00	231.60	285.00	53.50	74.60	28.60	13.00	5.00	
5	0.30	0.00	44.69	552.30	167.00	231.60	225.79	53.50	74.60	26.40	13.00	4.60	
6	0.90	0.00	56.49	409.00	136.10	174.79	249.00	54.99	72.90	24.20	13.00	4.20	
7	0.60	0.60	62.70	225.79	120.00	126.89	301.80	61.00	71.20	24.20	18.40	4.20	
8	0.00	2.10	61.00	169.60	111.20	115.59	308.20	53.50	69.50	21.10	18.40	3.40	
9	0.00	3.40	56.49	209.19	126.89	131.49	263.99	54.99	69.50	20.20	18.40	2.40	
10	0.00	7.60	48.99	243.19	140.68	255.00	222.89	61.00	67.80	22.00	19.30	2.40	
11	0.00	28.60	42.10	283.80	111.20	309.50	291.00	82.00	71.20	21.10	18.40	2.40	
12	0.00	36.89	35.60	269.99	102.39	319.90	278.98	72.90	76.30	20.20	13.00	2.40	
13	0.00	33.00	34.30	214.60	147.79	348.60	225.79	69.50	74.60	23.09	13.00	2.10	
14	0.60	29.70	33.00	159.79	327.70	376.59	172.19	69.50	69.50	23.09	12.40	1.80	
15	5.80	33.00	33.00	231.60	427.00	345.80	142.99	85.99	67.80	21.10	13.00	1.20	
16	13.90	54.99	34.30	198.40	446.50	295.80	129.19	90.00	66.10	23.09	13.00	1.50	
17	13.00	94.00	34.30	211.90	364.00	240.29	155.00	84.00	66.10	19.30	11.20	1.50	
18	11.80	113.39	38.20	190.40	338.80	187.79	102.39	80.00	66.10	16.60	8.20	1.20	
19	11.20	98.00	33.00	120.00	309.50	147.79	87.99	78.00	66.10	15.70	6.60	0.30	
20	10.60	76.30	30.80	84.00	305.60	155.00	84.00	80.00	62.70	15.70	5.80	0.00	
21	8.20	61.00	34.30	69.50	285.00	280.19	80.00	80.00	59.50	15.70	5.40	0.00	
22	7.00	52.00	25.30	74.60	295.80	182.60	80.00	82.00	52.00	15.70	5.00	0.00	
23	8.20	47.49	19.30	104.59	220.00	240.29	78.00	84.00	50.50	16.60	4.60	0.00	
24	8.80	43.40	16.60	162.19	157.39	305.60	76.30	82.00	50.50	16.60	5.00	0.00	
25	6.20	44.69	14.80	167.00	129.19	289.80	80.00	80.00	48.99	17.50	5.40	0.00	
26	4.60	42.10	13.00	155.00	122.30	345.80	78.00	78.00	50.50	18.40	6.20	0.00	
27	3.40	34.30	11.80	122.30	109.00	409.00	72.90	76.30	47.49	19.30	5.80	0.00	
28	2.70	44.69	11.80	98.00	98.00	396.99	69.50	74.60	44.69	20.20	5.40	0.00	
29	2.40	48.99	27.50	129.19	90.00	301.80	67.80	74.60	36.89	21.10		0.00	
30	2.10	44.69	67.80	203.79	157.39	234.50	64.39	72.90	34.30	23.09		0.00	
31		35.60		269.99	201.10		61.00		34.30	22.00		0.00	
TOTAL	122.60	1114.72	1063.56	6079.66	6381.41	7639.06	4921.46	2142.76	1920.06	667.56	318.00	55.60	32426.43 CMSDAY
MEAN	4.09	35.96	35.45	196.12	205.85	254.64	158.76	71.43	61.94	21.53	11.36	1.79	88.84 CMS
MAX	13.90	113.39	67.80	552.30	446.50	409.00	308.20	90.00	76.30	33.00	19.30	5.00	552.30 CMS
MIN	0.00	0.00	11.80	47.49	98.00	115.59	61.00	53.50	34.30	15.70	4.60	0.00	0.00 CMS
RUNOFF	10.593	96.312	91.891	525.283	551.354	660.015	425.214	185.134	165.893	57.677	27.475	4.804	2801.643 MCM

MOMENTARY PEAK 568.70 CMS, AT 304.48 M (MSL), AT 13.00 HOURS, ON JUL 5, 1978

RUNOFF YIELD 13.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 89.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

PING RIVER AT TAK, TAK (P.2A)

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

DRAINAGE AREA — 38,862 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +115.321 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1952 TO DATE.

RATING OPERATION

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

RATED BY FLOAT — -

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

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

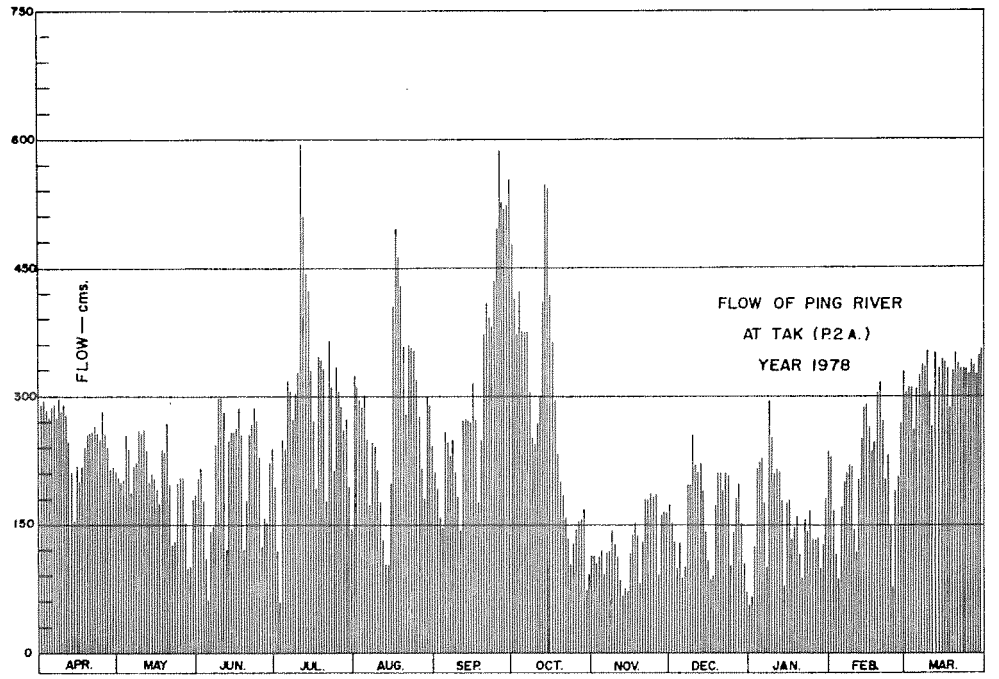
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1978. 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	105.66	105.44	105.43	105.33	105.74	105.46	106.12	105.18	105.36	104.99	105.52	105.75	
2	105.67	105.43	105.47	105.26	105.71	105.41	105.94	105.18	105.31	105.01	105.51	105.69	
3	105.62	105.44	105.39	104.98	105.67	105.35	105.85	105.15	105.23	105.12	105.38	105.71	
4	105.62	105.57	105.24	105.56	105.65	105.22	105.96	105.18	105.12	105.40	105.21	105.71	
5	105.65	105.56	104.99	105.52	105.69	105.58	105.86	105.20	105.23	105.48	105.06	105.58	
6	105.66	105.40	105.27	105.73	105.58	105.53	105.86	105.07	105.09	105.50	105.29	105.70	
7	105.62	105.48	105.28	105.68	105.36	105.51	105.86	105.19	105.13	105.40	105.44	105.72	
8	105.68	105.48	105.60	105.61	105.55	105.56	105.67	105.19	105.42	105.14	105.42	105.77	
9	105.64	105.59	105.68	105.66	105.54	105.42	105.59	105.27	105.40	105.67	105.48	105.76	
10	105.66	105.57	105.68	105.74	105.48	105.35	105.53	105.22	105.57	105.55	105.48	105.80	
11	105.62	105.59	105.64	106.28	105.40	105.26	105.60	105.17	105.47	105.46	105.30	105.72	
12	105.45	105.54	105.20	106.14	105.24	105.61	105.68	105.10	105.46	105.47	105.18	105.59	
13	105.46	105.42	105.55	105.96	105.12	105.62	105.86	105.01	105.49	105.46	105.40	105.80	
14	105.30	105.46	105.58	105.96	105.14	105.61	106.20	105.04	105.39	105.30	105.51	105.76	
15	105.48	105.45	105.58	105.84	105.40	105.60	106.19	105.04	105.25	105.06	105.65	105.76	
16	105.43	105.42	105.59	105.65	106.03	105.72	105.92	105.17	105.15	105.36	105.66	105.78	
17	105.48	105.36	105.65	105.44	106.11	105.60	105.77	105.23	105.07	105.37	105.61	105.77	
18	105.50	105.53	105.56	105.79	106.01	105.37	105.66	105.29	105.10	105.24	105.53	105.75	
19	105.57	105.52	105.20	105.78	105.96	105.49	105.49	105.25	105.36	105.26	105.28	105.65	
20	105.58	105.61	105.34	105.75	105.87	105.81	105.45	105.08	105.46	105.31	105.65	105.74	
21	105.58	105.50	105.57	105.37	105.63	105.93	105.40	105.18	105.46	105.16	105.72	105.80	
22	105.60	105.22	105.61	105.83	105.82	105.91	105.33	105.39	105.40	105.08	105.59	105.76	
23	105.57	105.24	105.65	105.71	105.81	105.86	105.21	105.39	105.46	105.30	105.44	105.76	
24	105.55	105.42	105.62	105.46	105.81	105.98	105.15	105.40	105.45	105.26	105.51	105.76	
25	105.64	105.45	105.53	105.76	105.68	106.06	105.21	105.36	105.11	105.33	105.49	105.76	
26	105.56	105.45	105.19	105.67	105.57	106.27	105.27	105.40	105.28	105.27	105.05	105.75	
27	105.53	105.39	105.32	105.65	105.45	106.17	105.30	105.11	105.37	105.23	105.40	105.78	
28	105.47	105.13	105.29	105.58	105.38	106.14	105.30	105.32	105.42	105.24	105.43	105.76	
29	105.48	105.14	105.49	105.62	105.68	106.15	105.34	105.33	105.27	105.11		105.74	
30	105.47	105.37	105.53	105.45	105.65	106.21	105.08	105.32	105.17	105.17		105.79	
31		105.39		105.26	105.57		105.14		105.04	105.34		105.81	
MEAN	105.56	105.44	105.46	105.65	105.62	105.69	105.61	105.21	105.31	105.29	105.44	105.74	
MAX	105.68	105.61	105.68	106.28	106.11	106.27	106.20	105.40	105.57	105.67	105.72	105.81	106.28
MIN	105.30	105.13	104.99	104.98	105.12	105.22	105.08	105.01	105.04	104.99	105.05	105.58	104.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 106.46 M (MSL), AT 9.00 HOURS, ON SEP 26, 1978
ZERO GAGE AT BOTTOM ELEVATION 104.00 M (MSL), RIVER BED 103.75 M (MSL)
LEFT BANK ELEVATION 110.86 M (MSL)
RIGHT BANK ELEVATION 115.59 M (MSL), DRAINAGE AREA 38862 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	290.0	203.2	199.4	164.2	323.6	210.8	502.8	114.0	174.4	59.7	234.0	328.0	
2	294.0	199.4	214.6	140.4	310.4	191.8	413.2	114.0	157.4	64.8	230.0	302.0	
3	274.0	203.2	184.6	57.4	294.0	171.0	372.0	105.0	130.2	96.0	181.2	310.4	
4	274.0	254.0	133.6	250.0	286.0	126.8	422.8	114.0	96.0	188.0	123.4	310.4	
5	286.0	250.0	59.7	234.0	302.0	258.0	376.4	120.0	130.2	218.4	78.8	258.0	
6	290.0	188.0	143.8	319.2	258.0	238.0	376.4	81.6	87.2	226.0	150.6	306.0	
7	274.0	218.4	147.2	298.0	174.4	230.0	376.4	117.0	99.0	188.0	203.2	314.8	
8	298.0	218.4	266.0	270.0	246.0	250.0	294.0	117.0	195.6	102.0	195.6	336.8	
9	282.0	262.0	298.0	290.0	242.0	195.6	262.0	143.8	188.0	294.0	218.4	332.4	
10	290.0	254.0	298.0	323.6	218.4	171.0	238.0	126.8	254.0	246.0	218.4	350.0	
11	274.0	262.0	282.0	590.8	188.0	140.4	266.0	111.0	214.6	210.8	154.0	314.8	
12	207.0	242.0	120.0	513.6	133.6	270.0	298.0	90.0	210.8	214.6	114.0	262.0	
13	210.8	195.6	246.0	422.8	96.0	274.0	376.4	64.8	222.2	210.8	188.0	350.0	
14	154.0	210.8	258.0	422.8	102.0	270.0	546.0	73.2	184.6	154.0	230.0	332.4	
15	218.4	207.0	258.0	367.6	188.0	266.0	540.6	73.2	137.0	78.8	286.0	332.4	
16	199.4	195.6	262.0	286.0	457.0	314.8	403.6	111.0	105.0	174.4	290.0	341.2	
17	218.4	174.4	286.0	203.2	497.4	266.0	336.8	130.2	81.6	177.8	270.0	336.8	
18	226.0	238.0	250.0	345.6	447.0	177.8	290.0	150.6	90.0	133.6	238.0	328.0	
19	254.0	234.0	120.0	341.2	422.8	222.2	222.2	137.0	174.4	140.4	147.2	286.0	
20	258.0	270.0	167.6	328.0	380.8	354.4	207.0	84.4	210.8	157.4	286.0	323.6	
21	258.0	226.0	254.0	177.8	278.0	408.4	188.0	114.0	210.8	108.0	314.8	350.0	
22	266.0	126.8	270.0	363.2	358.8	398.8	164.2	184.6	188.0	84.4	262.0	332.4	
23	254.0	133.6	286.0	310.4	354.4	376.4	123.4	184.6	210.8	154.0	203.2	332.4	
24	246.0	195.6	274.0	210.8	354.4	432.4	105.0	188.0	207.0	140.4	230.0	332.4	
25	282.0	207.0	238.0	332.4	298.0	472.0	123.4	174.4	93.0	164.2	222.2	332.4	
26	250.0	207.0	117.0	294.0	254.0	585.2	143.8	188.0	147.2	143.8	76.0	328.0	
27	238.0	184.6	160.8	286.0	207.0	529.8	154.0	93.0	177.8	130.2	188.0	341.2	
28	214.6	99.0	150.6	258.0	181.2	513.6	154.0	160.8	195.6	133.6	199.4	332.4	
29	218.4	102.0	222.2	274.0	298.0	519.0	167.6	164.2	143.8	93.0		323.6	
30	214.6	177.8	238.0	207.0	286.0	551.6	84.4	160.8	111.0	111.0		345.6	
31		184.6		140.4	254.0		102.0		73.2	167.6		354.4	
TOTAL	7513.6	6324.0	6405.1	9022.4	8691.2	9385.8	8630.4	3791.0	4901.2	4765.7	5732.4	10060.8	85223.5 CMSDAY
MEAN	250.5	204.0	213.5	291.0	280.4	312.9	278.4	126.4	158.1	153.7	204.7	324.5	233.5 CMS
MAX	298.0	270.0	298.0	590.8	497.4	585.2	546.0	188.0	254.0	294.0	314.8	354.4	590.8 CMS
MIN	154.0	99.0	59.7	57.4	96.0	126.8	84.4	64.8	73.2	59.7	76.0	258.0	57.4 CMS
RUNOFF	649.17	546.39	553.40	779.53	750.92	810.93	745.67	327.54	423.46	411.76	495.28	869.25	7363.31 MCM

MOMENTARY PEAK 691.60 CMS, AT 106.46 M (MSL), AT 9.00 HOURS, ON SEP 26, 1978

RUNOFF YIELD 6.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — NEAR THE GATE OF AMPHOE MAE TAENG OFFICE.

ELEVATION — +338.736 M. (M.S.L.)

GAGE READING FREQUENCY — 6-TIMES DAILY READINGS AT 06.00, 09.00, 12.00, 15.00, 18.00 AND 21.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 6 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 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 1978. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 23,700 HECTARES AT MAE FAEK WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

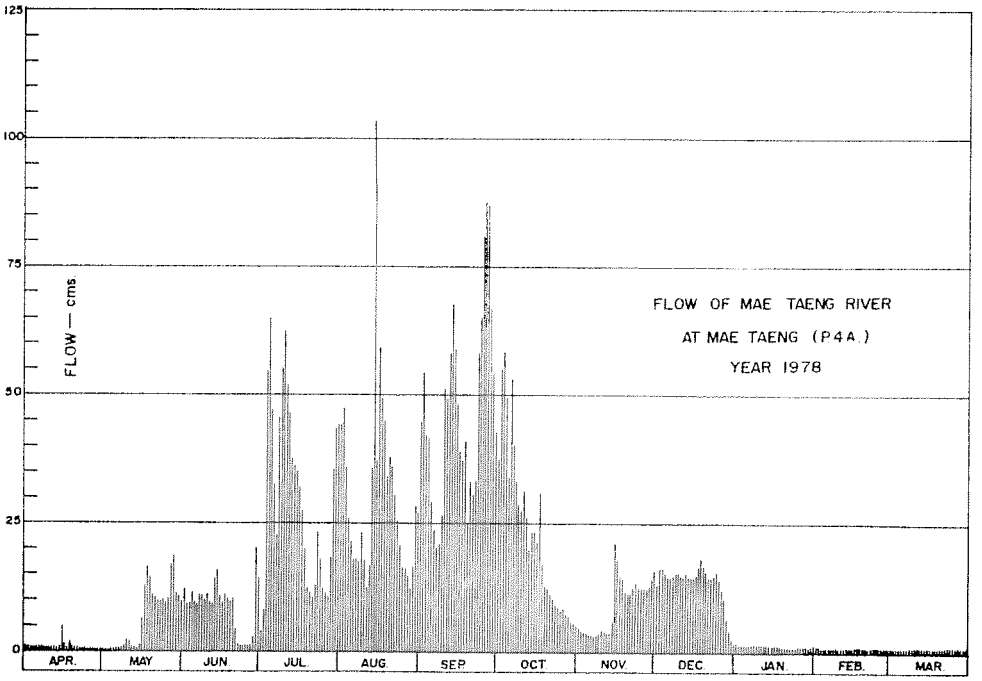
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	334.84	334.79	335.39	335.09	336.15	336.13	336.01	335.10	335.48	334.92	334.87	334.84	
2	334.84	334.80	335.30	335.26	336.22	336.35	336.33	335.09	335.50	334.91	334.86	334.84	
3	334.83	334.80	335.29	336.35	335.97	336.11	336.42	335.07	335.50	334.91	334.86	334.84	
4	334.83	334.80	335.36	336.54	335.76	336.10	336.07	335.06	335.49	334.91	334.86	334.84	
5	334.84	334.80	335.31	336.19	335.66	335.84	335.94	335.05	335.48	334.90	334.85	334.84	
6	334.84	334.81	335.28	335.91	335.58	335.72	336.32	335.04	335.47	334.90	334.85	334.83	
7	334.83	334.81	335.37	335.69	335.56	335.61	336.07	335.03	335.47	334.89	334.85	334.83	
8	334.83	334.81	335.38	336.18	335.54	335.59	335.90	335.02	335.48	334.89	334.87	334.83	
9	334.83	334.82	335.33	336.30	335.69	335.77	335.80	335.04	335.49	334.89	334.86	334.83	
10	334.83	334.96	335.38	336.50	335.56	336.29	335.79	335.07	335.48	334.91	334.86	334.85	
11	334.84	334.93	335.31	336.35	335.39	336.25	335.89	335.06	335.47	334.91	334.87	334.84	
12	334.84	334.84	335.28	336.21	335.46	336.34	335.78	335.04	335.48	334.90	334.87	334.84	
13	334.84	334.82	335.43	336.01	335.82	336.59	335.61	335.03	335.47	334.90	334.86	334.84	
14	334.83	334.81	335.50	335.99	337.12	336.51	335.69	335.14	335.46	334.89	334.85	334.83	
15	335.11	334.87	335.34	335.97	336.95	336.28	335.69	335.64	335.46	334.88	334.86	334.83	
16	334.89	335.21	335.29	335.86	336.43	336.06	335.82	335.57	335.47	334.89	334.87	334.83	
17	334.87	335.41	335.35	335.82	336.22	336.01	335.88	335.47	335.48	334.88	334.86	334.83	
18	334.95	335.52	335.33	335.57	336.17	336.10	335.48	335.45	335.56	334.88	334.85	334.83	
19	334.83	335.48	335.29	335.41	335.94	335.76	335.40	335.37	335.50	334.87	334.85	334.83	
20	334.83	335.38	335.33	335.36	336.03	335.94	335.39	335.35	335.48	334.86	334.85	334.83	
21	334.82	335.33	335.12	335.34	336.00	335.87	335.38	335.38	335.47	334.85	334.84	334.83	
22	334.82	335.31	334.94	335.44	335.85	335.90	335.33	335.41	335.46	334.86	334.84	334.83	
23	334.81	335.30	334.91	335.70	335.71	336.34	335.27	335.43	335.47	334.86	334.84	334.85	
24	334.81	335.34	334.91	335.53	335.63	336.46	335.27	335.41	335.48	334.85	334.84	334.85	
25	334.81	335.29	334.90	335.45	335.50	336.66	335.23	335.40	335.47	334.86	334.84	334.84	
26	334.80	335.33	334.90	335.38	335.51	336.90	335.25	335.39	335.42	334.87	334.84	334.85	
27	334.80	335.52	334.89	335.33	335.43	336.89	335.21	335.39	335.32	334.87	334.84	334.85	
28	334.80	335.58	335.01	335.51	335.39	336.45	335.20	335.40	335.22	334.87	334.84	334.84	
29	334.80	335.45	335.62	335.94	335.47	336.23	335.17	335.44	335.02	334.87		334.85	
30	334.79	335.34	335.43	336.13	335.83	336.10	335.13	335.49	334.94	334.86		334.85	
31		335.28		336.15	335.78		335.11		334.93	334.88		334.84	
MEAN	334.84	335.11	335.25	335.82	335.85	336.17	335.64	335.26	335.41	334.88	334.85	334.84	
MAX	335.11	335.58	335.62	336.54	337.12	336.90	336.42	335.64	335.56	334.92	334.87	334.85	337.12
MIN	334.79	334.79	334.89	335.09	335.39	335.59	335.11	335.02	334.93	334.85	334.84	334.83	334.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 337.28 M (MSL), AT 18.00 HOURS, ON AUG 14, 1978

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

LEFT BANK ELEVATION 339.77 M (MSL)

RIGHT BANK ELEVATION 339.74 M (MSL), DRAINAGE AREA 1902 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.36	11.82	4.22	43.90	42.90	36.90	4.40	14.90	1.48	0.96	0.72	
2	0.72	0.40	9.30	8.30	47.44	54.30	53.22	4.22	15.60	1.34	0.88	0.72	
3	0.64	0.40	9.05	54.30	34.96	41.90	58.08	3.86	15.60	1.34	0.88	0.72	
4	0.64	0.40	10.98	64.64	25.40	41.40	39.90	3.68	15.25	1.34	0.88	0.72	
5	0.72	0.40	9.58	45.90	21.48	28.84	33.52	3.50	14.90	1.20	0.80	0.72	
6	0.72	0.48	8.80	32.08	18.48	23.80	52.68	3.32	14.55	1.20	0.80	0.64	
7	0.64	0.48	11.26	22.62	17.76	19.58	39.90	3.14	14.55	1.12	0.80	0.64	
8	0.64	0.48	11.54	45.40	17.04	18.84	31.60	2.96	14.90	1.12	0.96	0.64	
9	0.64	0.56	10.14	51.60	22.62	25.80	27.00	3.32	15.25	1.12	0.88	0.64	
10	0.64	2.04	11.54	62.40	17.76	51.08	26.60	3.86	14.90	1.34	0.88	0.80	
11	0.72	1.62	9.58	54.30	11.82	49.00	31.14	3.68	14.55	1.34	0.96	0.72	
12	0.72	0.72	8.80	46.92	14.20	53.76	26.20	3.32	14.90	1.20	0.96	0.72	
13	0.72	0.56	13.15	36.90	27.92	67.44	19.58	3.14	14.55	1.20	0.88	0.72	
14	0.64	0.48	15.60	35.92	102.92	62.96	22.62	5.36	14.20	1.12	0.80	0.64	
15	4.64	0.96	10.42	34.96	90.60	50.56	22.62	20.72	14.20	1.04	0.88	0.64	
16	1.12	7.05	9.05	29.76	58.62	39.40	27.92	18.12	14.55	1.12	0.96	0.64	
17	0.96	12.45	10.70	27.92	47.44	36.90	30.68	14.55	14.90	1.04	0.88	0.64	
18	1.90	16.32	10.14	18.12	44.90	41.40	14.90	13.85	17.76	1.04	0.80	0.64	
19	0.64	14.90	9.05	12.45	33.52	25.40	12.10	11.26	15.60	0.96	0.80	0.64	
20	0.64	11.54	10.14	10.98	37.90	33.52	11.82	10.70	14.90	0.88	0.80	0.64	
21	0.56	10.14	4.88	10.42	36.40	30.22	11.54	11.54	14.55	0.80	0.72	0.64	
22	0.56	9.58	1.76	13.50	29.30	31.60	10.14	12.45	14.20	0.88	0.72	0.64	
23	0.48	9.30	1.34	23.00	23.40	53.76	8.55	13.15	14.55	0.88	0.72	0.80	
24	0.48	10.42	1.34	16.68	20.34	60.24	8.55	12.45	14.90	0.80	0.72	0.80	
25	0.48	9.05	1.20	13.85	15.60	71.60	7.55	12.10	14.55	0.88	0.72	0.72	
26	0.40	10.14	1.20	11.54	15.96	87.20	8.05	11.82	12.80	0.96	0.72	0.80	
27	0.40	16.32	1.12	10.14	13.15	86.54	7.05	11.82	9.86	0.96	0.72	0.80	
28	0.40	18.48	2.78	15.96	11.82	59.70	6.80	12.10	7.30	0.96	0.72	0.72	
29	0.40	13.85	19.96	33.52	14.55	47.96	6.08	13.50	2.96	0.96		0.80	
30	0.36	10.42	13.15	42.90	28.38	41.40	5.12	15.25	1.76	0.88		0.80	
31		8.80		43.90	26.20		4.64		1.62	1.04		0.72	
TOTAL	23.94	199.10	259.37	935.10	971.78	1379.00	703.05	267.14	409.56	33.54	23.20	21.84	5226.61 CMSDAY
MEAN	0.80	6.42	8.65	30.16	31.35	45.97	22.68	8.90	13.21	1.08	0.83	0.70	14.32 CMS
MAX	4.64	18.48	19.96	64.64	102.92	87.20	58.08	20.72	17.76	1.48	0.96	0.80	102.92 CMS
MIN	0.36	0.36	1.12	4.22	11.82	18.84	4.64	2.96	1.62	0.80	0.72	0.64	0.36 CMS
RUNOFF	2.068	17.202	22.410	80.793	83.962	119.145	60.743	23.081	35.386	2.898	2.004	1.887	451.579 MCM

MOMENTARY PEAK 115.08 CMS, AT 337.28 M (MSL), AT 18.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 7.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 60.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

MAE KUANG RIVER 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 — +289.30 M. (M.S.L.)

BENCH MARK — B.M.-H.S./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 — 1951 TO DATE.

RATING OPERATION

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

RATED BY FLOAT — -

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

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

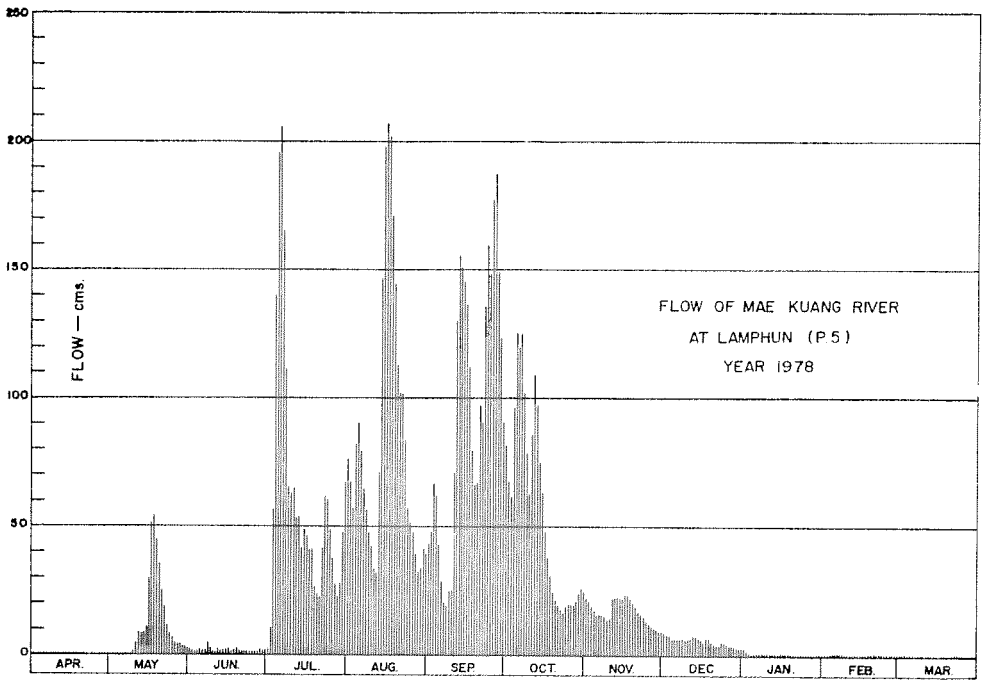
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1978. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 9,600 HECTARES AT MAE KUANG WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	289.11	289.11	289.43	289.40	291.68	290.93	291.80	290.38	289.78	289.39	289.21	289.18	
2	289.11	289.10	289.32	289.85	291.49	291.09	291.48	290.31	289.76	289.32	289.20	289.17	
3	289.10	289.10	289.31	291.49	291.28	291.50	291.37	290.26	289.76	289.26	289.21	289.18	
4	289.10	289.10	289.34	293.01	291.65	291.37	292.15	290.18	289.67	289.23	289.22	289.18	
5	289.09	289.10	289.38	293.64	291.97	290.88	292.61	290.13	289.67	289.20	289.20	289.18	
6	289.09	289.10	289.33	293.81	291.85	290.55	292.50	290.13	289.66	289.21	289.20	289.18	
7	289.10	289.10	289.36	293.13	291.50	290.30	292.59	290.12	289.67	289.21	289.24	289.18	
8	289.10	289.11	289.55	291.88	291.30	290.26	292.20	290.06	289.68	289.18	289.24	289.18	
9	289.10	289.12	289.45	291.35	291.14	290.43	291.81	290.04	289.65	289.16	289.22	289.17	
10	289.09	289.12	289.36	291.36	290.95	290.45	291.40	290.00	289.66	289.16	289.19	289.17	
11	289.10	289.50	289.32	291.45	290.72	291.54	291.93	290.33	289.67	289.16	289.18	289.17	
12	289.11	289.77	289.36	291.20	290.56	292.66	292.32	290.35	289.72	289.16	289.19	289.17	
13	289.12	289.77	289.35	291.22	291.53	293.08	292.07	290.37	289.72	289.19	289.19	289.17	
14	289.12	289.80	289.38	290.90	293.15	293.03	291.61	290.35	289.68	289.20	289.17	289.15	
15	289.11	289.89	289.36	291.10	293.68	292.95	291.31	290.34	289.66	289.20	289.15	289.14	
16	289.12	290.56	289.41	291.09	293.83	292.77	291.01	290.39	289.56	289.20	289.14	289.14	
17	289.11	291.17	289.32	290.90	293.76	292.26	290.78	290.40	289.67	289.16	289.18	289.14	
18	289.11	291.22	289.40	290.90	293.48	291.68	290.65	290.37	289.67	289.19	289.20	289.17	
19	289.11	290.97	289.37	290.64	293.02	291.48	290.48	290.31	289.57	289.18	289.18	289.14	
20	289.11	290.71	289.36	290.43	292.46	291.50	290.37	290.21	289.56	289.16	289.24	289.15	
21	289.11	290.43	289.35	290.31	292.19	292.02	290.25	290.19	289.50	289.17	289.22	289.17	
22	289.11	290.17	289.34	290.86	292.19	291.96	290.21	290.15	289.52	289.21	289.21	289.14	
23	289.11	289.96	289.30	291.39	291.66	292.93	290.15	290.12	289.59	289.20	289.19	289.13	
24	289.11	289.80	289.33	291.36	291.26	293.14	290.22	289.99	289.61	289.18	289.18	289.14	
25	289.11	289.66	289.32	291.20	291.12	292.96	290.27	289.96	289.51	289.18	289.16	289.11	
26	289.11	289.56	289.28	290.88	291.11	293.41	290.25	289.90	289.54	289.18	289.17	289.11	
27	289.12	289.55	289.31	290.62	290.87	293.55	290.27	289.85	289.51	289.23	289.17	289.11	
28	289.12	289.51	289.38	290.40	290.67	293.21	290.25	289.88	289.46	289.21	289.17	289.11	
29	289.11	289.51	289.35	290.50	290.70	292.42	290.43	289.78	289.47	289.19		289.10	
30	289.11	289.47	289.41	291.06	290.91	291.96	290.48	289.81	289.43	289.19		289.13	
31		289.45		291.49	290.87		290.44		289.44	289.19		289.14	
MEAN	289.11	289.73	289.36	291.25	291.76	291.94	291.15	290.15	289.61	289.20	289.19	289.15	
MAX	289.12	291.22	289.55	293.81	293.83	293.55	292.61	290.40	289.78	289.39	289.24	289.18	293.83
MIN	289.09	289.10	289.28	289.40	290.56	290.26	290.15	289.78	289.43	289.16	289.14	289.10	289.09

ANNUAL MAX MOMENTARY GAGE HEIGHT 293.84 M (MSL), AT 18.00 HOURS, ON AUG 16, 1978
ZERO GAGE AT BOTTOM ELEVATION 289.30 M (MSL), RIVER BED 288.58 M (MSL)
LEFT BANK ELEVATION 295.30 M (MSL)
RIGHT BANK ELEVATION 295.70 M (MSL), DRAINAGE AREA 1569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.23	2.95	2.50	76.00	42.20	82.00	23.04	8.64	2.40	0.60	0.44	
2	0.23	0.20	1.70	10.00	66.54	48.60	66.08	21.08	8.28	1.70	0.50	0.41	
3	0.20	0.20	1.60	66.54	56.92	67.00	61.02	19.68	8.28	1.10	0.60	0.44	
4	0.20	0.20	1.90	150.64	74.50	61.02	100.15	17.50	6.69	0.80	0.70	0.44	
5	0.18	0.20	2.30	193.40	90.64	40.20	125.60	16.25	6.69	0.50	0.50	0.44	
6	0.18	0.20	1.80	205.34	84.50	28.50	119.40	16.25	6.52	0.60	0.50	0.44	
7	0.20	0.20	2.10	158.44	67.00	20.80	124.44	16.00	6.69	0.60	0.90	0.44	
8	0.20	0.23	4.75	86.00	57.80	19.68	102.80	14.58	6.86	0.44	0.90	0.44	
9	0.20	0.26	3.25	60.10	50.76	24.56	82.50	14.12	6.35	0.38	0.70	0.41	
10	0.18	0.26	2.10	60.56	43.00	25.20	62.40	13.20	6.52	0.38	0.47	0.41	
11	0.20	4.00	1.70	64.70	34.28	69.00	88.56	21.64	6.69	0.38	0.44	0.41	
12	0.23	8.46	2.10	53.40	28.84	128.60	109.32	22.20	7.56	0.38	0.47	0.41	
13	0.26	8.46	2.00	54.28	68.50	155.12	95.91	22.76	7.56	0.47	0.47	0.41	
14	0.26	9.00	2.30	41.00	159.80	151.92	72.50	22.20	6.86	0.50	0.41	0.35	
15	0.23	10.80	2.10	49.00	196.20	146.80	58.26	21.92	6.52	0.50	0.35	0.32	
16	0.26	28.84	2.65	48.60	206.82	135.34	45.40	23.32	4.90	0.50	0.32	0.32	
17	0.23	52.08	1.70	41.00	201.80	106.04	36.32	23.60	6.69	0.38	0.44	0.32	
18	0.23	54.28	2.50	41.00	182.24	76.00	31.90	22.76	6.69	0.47	0.50	0.41	
19	0.23	43.80	2.20	31.56	151.28	66.08	26.16	21.08	5.05	0.44	0.44	0.32	
20	0.23	33.94	2.10	24.56	117.16	67.00	22.76	18.28	4.90	0.38	0.90	0.35	
21	0.23	24.56	2.00	21.08	102.27	93.26	19.40	17.75	4.00	0.41	0.70	0.41	
22	0.23	17.25	1.90	39.40	102.27	90.12	18.28	16.75	4.30	0.60	0.60	0.32	
23	0.23	12.32	1.50	61.94	75.00	145.52	16.75	16.00	5.35	0.50	0.47	0.29	
24	0.23	9.00	1.80	60.56	56.04	159.12	18.56	12.98	5.67	0.44	0.44	0.32	
25	0.23	6.52	1.70	53.40	49.88	147.44	19.96	12.32	4.15	0.44	0.38	0.23	
26	0.23	4.90	1.30	40.20	49.44	177.48	19.40	11.00	4.60	0.44	0.41	0.23	
27	0.26	4.75	1.60	30.88	39.80	187.10	19.96	10.00	4.15	0.80	0.41	0.23	
28	0.26	4.15	2.30	23.60	32.58	163.88	19.40	10.60	3.40	0.60	0.41	0.23	
29	0.23	4.15	2.00	26.80	33.60	114.92	24.56	8.64	3.55	0.47		0.20	
30	0.23	3.55	2.65	47.40	41.40	90.12	26.16	9.20	2.95	0.47		0.29	
31		3.25		66.54	39.80		24.88		3.10	0.47		0.32	
TOTAL	6.72	350.24	64.55	1914.42	2636.66	2848.62	1740.79	516.70	180.16	18.94	14.93	11.00	10303.71 CMSDAY
MEAN	0.22	11.30	2.15	61.76	85.05	94.95	56.15	17.22	5.81	0.61	0.53	0.35	28.23 CMS
MAX	0.26	54.28	4.75	205.34	206.82	187.10	125.60	23.60	8.64	2.40	0.90	0.44	206.82 CMS
MIN	0.18	0.20	1.30	2.50	28.84	19.68	16.75	8.64	2.95	0.38	0.32	0.20	0.18 CMS
RUNOFF	0.581	30.261	5.577	165.406	227.807	246.121	150.404	44.643	15.566	1.636	1.290	0.950	890.241 MCM

MOMENTARY PEAK 207.56 CMS, AT 293.84 M (MSL), AT 18.00 HOURS, ON AUG 16, 1978

RUNOFF YIELD 17.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 132.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S./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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

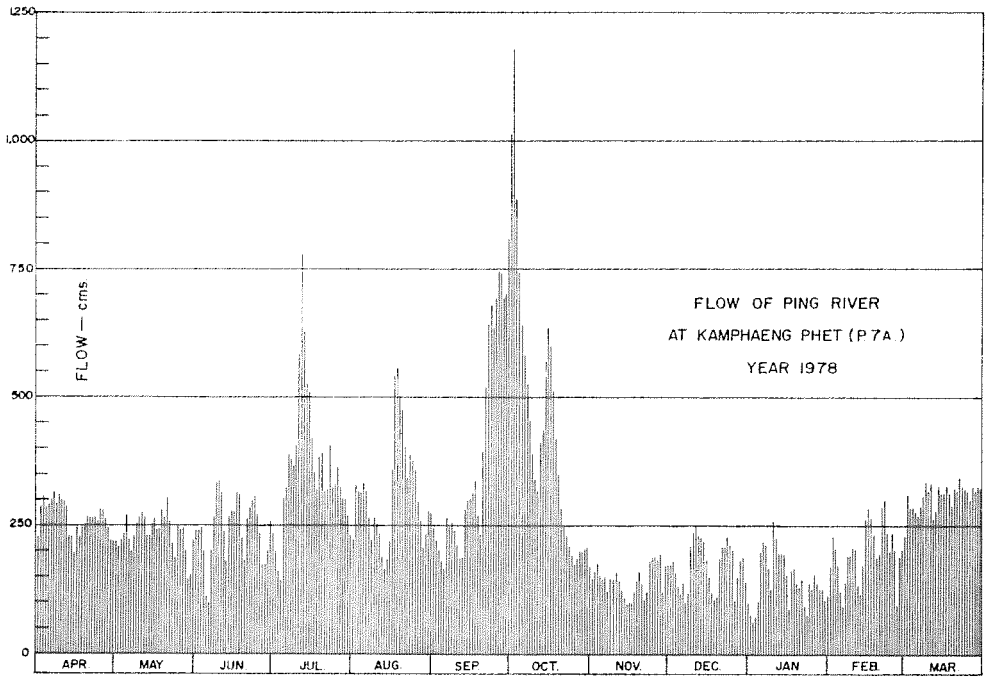
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1978. 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	74.15	74.13	74.19	74.19	74.08	74.22	75.93	73.89	73.99	73.59	73.95	74.16	
2	74.32	74.09	74.19	74.08	74.44	74.16	76.13	73.96	74.01	73.52	74.15	74.38	
3	74.37	74.12	74.21	73.98	74.42	74.07	75.50	73.99	73.93	73.54	74.10	74.32	
4	74.30	74.15	74.09	73.81	74.39	74.02	75.26	73.89	73.85	73.68	73.98	74.32	
5	74.32	74.27	73.94	74.37	74.44	73.94	75.10	73.89	73.75	74.03	73.79	74.30	
6	74.35	74.19	73.69	74.41	74.41	74.26	74.99	73.91	73.86	74.12	73.63	74.27	
7	74.39	74.07	74.03	74.58	74.27	74.21	74.91	73.79	73.71	74.11	73.86	74.32	
8	74.32	74.15	74.16	74.54	74.13	74.24	74.72	73.89	73.78	74.01	74.04	74.37	
9	74.38	74.22	74.44	74.52	74.27	74.21	74.55	73.89	74.10	73.81	74.04	74.44	
10	74.35	74.25	74.46	74.62	74.25	74.09	74.44	73.94	74.18	74.25	74.09	74.39	
11	74.35	74.28	74.42	75.12	74.17	74.04	74.41	73.89	74.22	74.12	74.08	74.44	
12	74.30	74.29	74.29	75.40	74.08	74.01	74.61	73.81	74.15	74.06	73.89	74.25	
13	74.11	74.17	74.00	75.09	73.94	74.32	74.67	73.73	74.15	74.06	73.76	74.29	
14	74.14	74.15	74.25	74.91	73.96	74.35	74.99	73.68	74.13	74.05	74.01	74.42	
15	74.01	74.21	74.30	74.86	74.07	74.36	75.11	73.70	74.03	73.89	74.23	74.39	
16	74.21	74.26	74.30	74.66	74.41	74.40	75.03	73.69	73.90	73.63	74.31	74.39	
17	74.14	74.19	74.39	74.46	74.92	74.45	74.76	73.80	73.80	73.94	74.27	74.42	
18	74.18	74.20	74.39	74.41	74.95	74.33	74.61	73.86	73.72	73.96	74.21	74.40	
19	74.21	74.30	74.20	74.56	74.79	74.17	74.45	73.94	73.73	73.84	74.13	74.33	
20	74.26	74.24	74.00	74.58	74.78	74.47	74.31	73.88	74.00	73.82	73.98	74.41	
21	74.27	74.37	74.26	74.37	74.58	74.92	74.22	73.72	74.10	73.88	74.30	74.38	
22	74.26	74.19	74.32	74.36	74.46	75.09	74.17	73.80	74.10	73.70	74.35	74.47	
23	74.27	73.97	74.35	74.62	74.58	75.15	74.10	74.01	74.15	73.56	74.19	74.41	
24	74.23	74.02	74.38	74.42	74.55	75.11	74.00	74.03	74.11	73.85	74.04	74.41	
25	74.31	74.22	74.31	74.42	74.51	75.17	73.98	74.03	74.07	73.82	74.18	74.40	
26	74.31	74.20	74.18	74.52	74.36	75.33	74.02	74.00	73.73	73.92	74.09	74.35	
27	74.24	74.21	73.91	74.44	74.22	75.32	74.06	74.05	73.88	73.85	73.68	74.42	
28	74.21	74.14	74.01	74.37	74.09	75.23	74.07	73.76	73.99	73.79	74.01	74.40	
29	74.14	73.88	74.05	74.35	74.10	75.25	74.08	73.97	74.03	73.80		74.42	
30	74.13	73.89	74.25	74.27	74.29	75.59	74.10	73.99	73.88	73.66		74.39	
31		74.10		74.15	74.29		73.92		73.74	73.72		74.46	
MEAN	74.25	74.17	74.20	74.50	74.36	74.55	74.62	73.88	73.96	73.86	74.05	74.37	
MAX	74.39	74.37	74.46	75.40	74.95	75.59	76.13	74.05	74.22	74.25	74.35	74.47	76.13
MIN	74.01	73.88	73.69	73.81	73.94	73.94	73.92	73.68	73.71	73.52	73.63	74.16	73.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 76.35 M (MSL), AT 7.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 72.00 M (MSL), RIVER BED 71.92 M (MSL)
LEFT BANK ELEVATION 76.47 M (MSL)
RIGHT BANK ELEVATION 77.60 M (MSL), DRAINAGE AREA 42700 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	225.5	218.9	238.7	238.7	202.8	249.2	1064.8	147.4	175.2	78.0	164.0	228.8	
2	285.6	205.9	238.7	202.8	332.0	228.8	1178.0	166.8	181.1	64.0	225.5	308.4	
3	304.6	215.6	245.6	172.4	324.0	199.7	832.0	175.2	158.4	68.0	209.0	285.6	
4	278.0	225.5	205.9	126.6	312.2	184.2	708.0	147.4	137.0	96.0	172.4	285.6	
5	285.6	267.2	161.2	304.6	332.0	161.2	628.0	147.4	112.0	187.3	121.6	278.0	
6	297.0	238.7	98.0	320.0	320.0	263.6	575.2	152.8	139.6	215.6	86.0	267.2	
7	312.2	199.7	187.3	389.6	267.2	245.6	536.8	121.6	102.4	212.3	139.6	285.6	
8	285.6	225.5	228.8	372.8	218.9	256.4	450.8	147.4	119.2	181.1	190.4	304.6	
9	309.4	249.2	332.0	364.4	267.2	245.6	377.0	147.4	209.0	126.6	190.4	332.0	
10	297.0	260.0	340.0	406.8	260.0	205.9	332.0	161.2	235.4	260.0	205.9	312.2	
11	297.0	270.8	324.0	638.0	232.1	190.4	320.0	147.4	249.2	215.6	202.8	332.0	
12	278.0	274.4	274.4	780.0	202.8	181.1	402.4	126.6	225.5	196.6	147.4	260.0	
13	212.3	232.1	178.0	623.2	161.2	285.6	428.8	107.2	225.5	196.6	114.4	274.4	
14	222.2	225.5	260.0	536.8	166.8	297.0	575.2	96.0	218.9	193.5	181.1	324.0	
15	181.1	245.6	278.0	513.6	199.7	300.8	633.0	100.0	187.3	147.4	252.8	312.2	
16	245.6	263.6	278.0	424.4	320.0	316.0	594.4	98.0	150.0	86.0	281.8	312.2	
17	222.2	238.7	312.2	340.0	541.6	336.0	468.4	124.0	124.0	161.2	267.2	324.0	
18	235.4	242.0	312.2	320.0	556.0	289.4	402.4	139.6	104.8	166.8	245.6	316.0	
19	245.6	278.0	242.0	381.2	481.6	232.1	336.0	161.2	107.2	134.4	218.9	289.4	
20	263.6	256.4	178.0	389.6	477.2	344.0	281.8	144.8	178.0	129.2	172.4	320.0	
21	267.2	304.6	263.6	304.6	389.6	541.6	249.2	104.8	209.0	144.8	278.0	308.4	
22	263.6	238.7	285.6	300.8	340.0	623.2	232.1	124.0	209.0	100.0	297.0	344.0	
23	267.2	169.6	297.0	406.8	389.6	653.0	209.0	181.1	225.5	72.0	238.7	320.0	
24	252.8	184.2	308.4	324.0	377.0	633.0	178.0	187.3	212.3	137.0	190.4	320.0	
25	281.8	249.2	281.8	324.0	360.2	663.0	172.4	187.3	199.7	129.2	235.4	316.0	
26	281.9	242.0	235.4	364.4	300.8	743.6	184.2	178.0	107.2	155.6	205.9	297.0	
27	256.4	245.6	152.8	332.0	249.2	738.4	196.6	193.5	144.8	137.0	96.0	324.0	
28	245.6	222.2	181.1	304.6	205.9	693.0	199.7	114.4	175.2	121.6	181.1	316.0	
29	222.2	144.8	193.5	297.0	209.0	703.0	202.8	169.6	187.3	124.0		324.0	
30	218.9	147.4	260.0	267.2	274.4	878.8	209.0	175.2	144.8	92.0		312.2	
31		209.0		225.5	274.4		155.6		109.6	104.8		340.0	
TOTAL	7840.0	7190.6	7372.2	11296.4	9545.4	11883.2	13313.6	4374.6	5264.1	4434.2	5511.7	9473.8	97499.7 CMSDAY
MEAN	261.3	232.0	245.7	364.4	307.9	396.1	429.5	145.8	169.8	143.0	196.8	305.6	267.1 CMS
MAX	312.2	304.6	340.0	780.0	556.0	878.8	1178.0	193.5	249.2	260.0	297.0	344.0	1178.0 CMS
MIN	181.1	144.8	98.0	126.6	161.2	161.2	155.6	96.0	102.4	64.0	86.0	228.8	64.0 CMS
RUNOFF	677.38	621.27	636.96	976.01	824.72	1026.71	1150.29	377.96	454.82	383.11	476.21	818.54	8423.97 MCM

MOMENTARY PEAK 1310.00 CMS, AT 76.35 M (MSL), AT 7.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 6.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 30.68 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — +134.00 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

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.

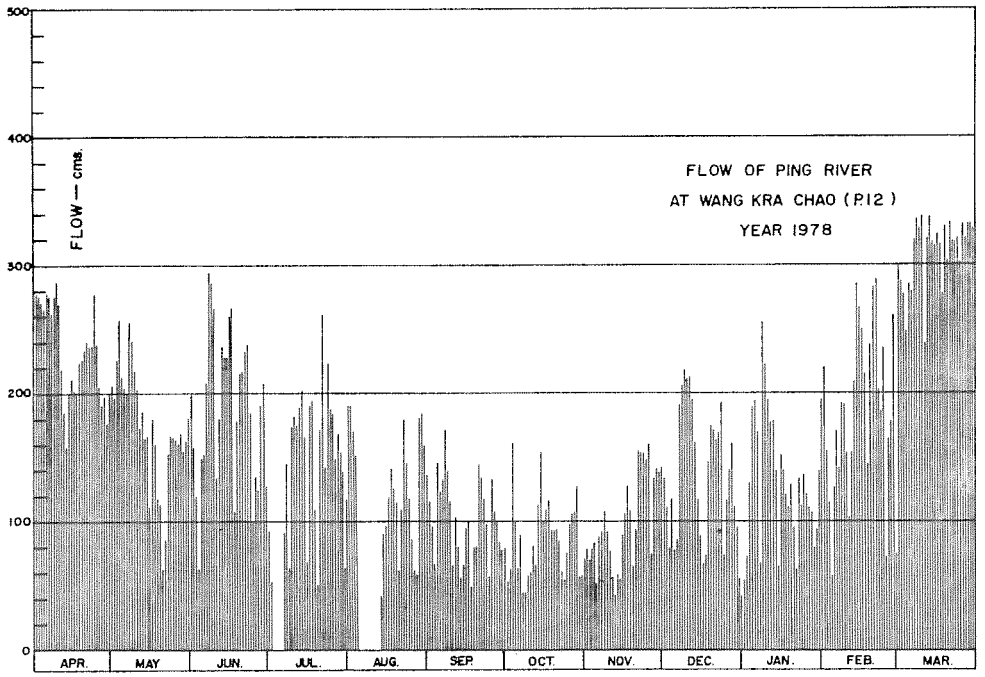
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION OF ABOUT 28,000 HECTARES AT ABOVE GAGE SITE.

REMARKS — NO RECORDS DURING JUL 3-6 AND AUG 4-11, 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	135.13	134.76	134.73	134.22	134.68	134.22	133.64	133.96	134.37	133.66	134.84	135.23	
2	135.12	134.71	134.57	133.71	134.56	134.09	133.87	133.88	134.16	133.92	134.52	135.13	
3	135.10	134.90	134.26	*******	134.46	133.69	134.52	133.95	133.93	134.47	134.10	135.14	
4	135.07	135.03	133.80	*******	*******	134.41	134.17	133.99	134.25	134.67	133.75	134.97	
5	135.14	134.60	134.45	*******	*******	134.29	133.82	133.68	133.87	134.70	134.32	135.16	
6	135.13	134.76	134.48	*******	*******	134.35	134.05	134.03	133.96	134.53	134.56	135.13	
7	135.05	134.74	134.93	134.04	*******	134.58	133.64	134.06	134.67	133.82	134.37	135.30	
8	135.12	135.02	135.21	134.43	*******	134.30	133.59	134.18	134.74	135.02	134.69	135.40	
9	135.17	134.98	135.13	133.81	*******	134.20	133.77	134.03	134.83	134.86	134.69	135.37	
10	135.09	134.83	135.07	134.59	*******	133.76	133.79	133.90	134.78	134.69	134.35	135.41	
11	134.83	134.77	134.33	134.64	*******	134.16	133.98	133.75	134.80	134.60	134.07	134.93	
12	134.69	134.58	134.75	134.59	133.57	133.98	133.83	133.59	134.70	134.61	134.51	135.33	
13	134.50	134.65	134.93	134.69	133.58	133.72	134.29	133.75	134.53	134.33	134.66	135.41	
14	134.71	134.54	134.88	134.75	134.07	133.83	134.48	133.73	134.20	133.78	135.16	135.32	
15	134.80	134.55	134.89	134.49	134.10	134.08	134.12	134.03	134.01	134.47	135.07	135.31	
16	134.74	134.21	134.99	133.87	134.22	134.13	134.18	134.14	133.82	134.44	134.96	135.35	
17	134.73	134.62	135.08	134.69	134.41	133.67	134.25	134.31	133.85	134.22	134.88	135.32	
18	134.86	134.57	134.19	134.71	134.28	133.93	134.10	134.18	134.42	134.19	134.30	135.13	
19	134.88	134.24	134.67	134.03	134.22	133.96	134.06	133.73	134.59	134.33	134.99	135.38	
20	134.91	134.22	134.82	133.68	133.77	134.42	134.08	134.00	134.58	134.01	135.14	135.25	
21	134.94	133.81	134.83	134.82	134.39	134.34	134.02	134.48	134.52	133.78	135.18	135.40	
22	134.91	134.01	134.91	135.06	134.62	134.26	133.76	134.48	134.55	134.36	134.68	135.29	
23	134.92	134.48	134.94	134.40	134.38	134.16	133.69	134.47	134.69	134.21	134.63	135.33	
24	135.13	134.55	134.80	134.87	134.27	133.73	133.95	134.44	133.85	134.38	134.92	135.34	
25	134.89	134.54	134.12	134.66	134.07	134.36	134.08	134.51	134.23	134.25	133.87	135.17	
26	134.78	134.54	134.37	134.63	133.77	134.21	134.18	133.90	134.39	134.20	134.55	135.39	
27	134.67	134.51	134.30	134.45	133.75	134.14	134.18	134.36	134.51	134.18	134.64	135.33	
28	134.72	134.56	134.68	134.56	134.63	134.07	134.32	134.40	134.21	133.90	135.04	135.39	
29	134.60	134.46	134.77	134.34	134.65	133.93	133.69	134.37	133.94	134.01		135.39	
30	134.74	134.54	134.40	133.80	134.55	133.97	133.80	134.41	133.68	134.41		135.37	
31		134.64		134.68	134.34		133.87		133.57	134.71		135.38	
MEAN	134.90	134.58	134.68	*******	*******	134.10	133.99	134.09	134.30	134.31	134.62	135.28	
MAX	135.17	135.03	135.21	135.06	134.68	134.58	134.52	134.51	134.83	135.02	135.18	135.41	135.41
MIN	134.50	133.81	133.80	*******	*******	133.67	133.59	133.59	133.57	133.66	133.75	134.93	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 135.92 M (MSL), AT 9.00 HOURS, ON MAR 30, 1978
ZERO GAGE AT BOTTOM ELEVATION 134.00 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	277.30	204.80	199.40	113.00	190.40	113.00	46.60	79.20	135.50	48.40	219.60	298.30	
2	275.20	195.80	170.60	53.00	168.80	94.80	69.00	70.00	104.40	74.40	161.60	277.30	
3	271.00	231.00	119.00	*******	150.80	51.10	161.60	78.00	75.60	152.60	96.00	279.40	
4	265.00	257.00	62.00	*******	*******	141.80	105.80	82.80	117.50	188.60	57.00	245.00	
5	279.40	176.00	149.00	*******	*******	123.50	64.00	50.20	69.00	194.00	128.00	283.60	
6	277.30	204.80	154.40	*******	*******	132.50	90.00	87.60	79.20	163.40	168.80	277.30	
7	261.00	201.20	237.00	88.80	*******	172.40	46.60	91.20	188.60	64.00	135.50	313.00	
8	275.20	255.00	294.10	145.40	*******	125.00	42.20	107.20	201.20	255.00	192.20	334.00	
9	285.70	247.00	277.30	63.00	*******	110.00	59.00	87.60	217.70	223.40	192.20	327.70	
10	269.00	217.70	265.00	174.20	*******	58.00	61.00	72.00	208.40	192.20	132.50	336.20	
11	217.70	206.60	129.50	183.20	*******	104.40	81.60	57.00	212.00	176.00	92.40	237.00	
12	192.20	172.40	203.00	174.20	40.60	81.60	65.00	42.20	194.00	177.80	159.80	319.30	
13	158.00	185.00	237.00	192.20	41.40	54.00	123.50	57.00	163.40	129.50	186.80	336.20	
14	195.80	165.20	227.20	203.00	92.40	65.00	154.40	55.00	110.00	60.00	283.60	317.20	
15	212.00	167.00	229.10	156.20	96.00	93.60	98.80	87.60	85.20	152.60	265.00	315.10	
16	201.20	111.50	249.00	69.00	113.00	100.20	107.20	101.60	64.00	147.20	243.00	323.50	
17	199.40	179.60	267.00	192.20	141.80	49.30	117.50	126.50	67.00	113.00	227.20	317.20	
18	223.40	170.60	108.60	195.80	122.00	75.60	96.00	107.20	143.60	108.60	125.00	277.30	
19	227.20	116.00	188.60	87.60	113.00	79.20	91.20	55.00	174.20	129.50	249.00	329.80	
20	233.00	113.00	215.80	50.20	59.00	143.60	93.60	84.00	172.40	85.20	279.40	302.50	
21	239.00	63.00	217.70	215.80	138.50	131.00	86.40	154.40	161.60	60.00	287.80	334.00	
22	233.00	85.20	233.00	263.00	179.60	119.00	58.00	154.40	167.00	134.00	190.40	310.90	
23	235.00	154.40	239.00	140.00	137.00	104.40	51.10	152.60	192.20	111.50	181.40	319.30	
24	277.30	167.00	212.00	225.30	120.50	55.00	78.00	147.20	67.00	137.00	235.00	321.40	
25	229.10	165.20	98.80	186.80	92.40	134.00	93.60	159.80	114.50	117.50	69.00	285.70	
26	208.40	165.20	135.50	181.40	59.00	111.50	107.20	72.00	138.50	110.00	167.00	331.90	
27	188.60	159.80	125.00	149.00	57.00	101.60	107.20	134.00	159.80	107.20	183.20	319.30	
28	197.60	168.80	190.40	168.80	181.40	92.40	128.00	140.00	111.50	72.00	259.00	331.90	
29	176.00	150.80	206.60	131.00	185.00	75.60	51.10	135.50	76.80	85.20		331.90	
30	201.20	165.20	140.00	62.00	167.00	80.40	62.00	141.80	50.20	141.80		327.70	
31		183.20		190.40	131.00		69.00		40.60	195.80		329.80	
TOTAL	6981.19	5404.99	5780.60	*******	*******	2973.50	2666.20	2970.60	4062.60	4107.40	5167.40	9590.69	******** CMSDAY
MEAN	232.71	174.35	192.69	*******	*******	99.12	86.01	99.02	131.05	132.50	184.55	309.38	******* CMS
MAX	285.70	257.00	294.10	263.00	190.40	172.40	161.60	159.80	217.70	255.00	287.80	336.20	336.20 CMS
MIN	158.00	63.00	62.00	*******	*******	49.30	42.20	42.20	40.60	48.40	57.00	237.00	******* CMS
RUNOFF	603.175	466.991	499.443	*******	*******	256.910	230.359	256.660	351.008	354.879	446.463	828.635	******** MCM

MOMENTARY PEAK 449.60 CMS, AT 135.92 M (MSL), AT 9.00 HOURS, ON MAR 30, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

MAE TAENG RIVER AT BAN MUANG 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, 1978 TO MARCH 31, 1979

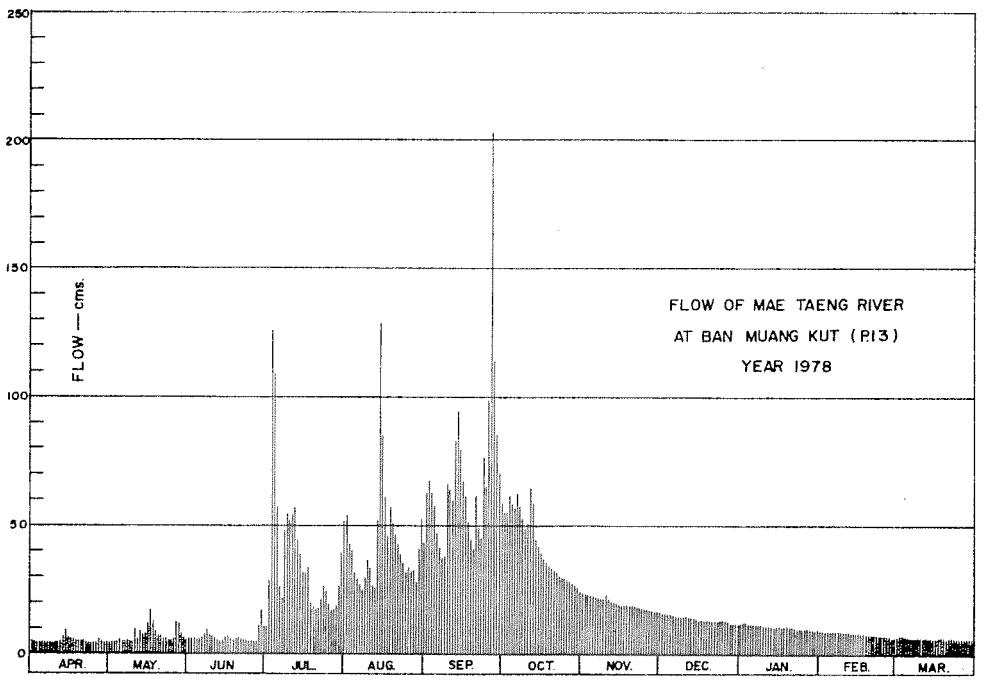
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	441.62	441.61	441.71	441.85	442.75	442.83	442.76	442.26	442.07	441.95	441.83	441.74	
2	441.62	441.60	441.66	442.28	442.59	442.91	442.76	442.26	442.06	441.96	441.83	441.76	
3	441.62	441.60	441.73	443.45	442.56	442.85	442.82	442.25	442.05	441.95	441.83	441.75	
4	441.62	441.60	441.69	443.30	442.40	442.80	442.80	442.24	442.05	441.94	441.83	441.74	
5	441.62	441.69	441.69	442.55	442.38	442.62	442.79	442.23	442.05	441.93	441.82	441.73	
6	441.62	441.68	441.69	442.35	442.35	442.56	442.86	442.22	442.04	441.93	441.82	441.72	
7	441.61	441.64	441.75	442.21	442.29	442.49	442.80	442.21	442.04	441.92	441.81	441.72	
8	441.61	441.68	441.84	442.67	442.33	442.51	442.69	442.21	442.03	441.92	441.81	441.72	
9	441.61	441.65	441.76	442.74	442.49	442.90	442.68	442.25	442.03	441.91	441.81	441.72	
10	441.61	441.64	441.76	442.72	442.45	442.88	442.72	442.21	442.03	441.91	441.82	441.72	
11	441.62	441.85	441.70	442.76	442.32	442.82	442.88	442.19	442.04	441.90	441.80	441.71	
12	441.62	441.69	441.69	442.80	442.30	443.05	442.78	442.19	442.03	441.90	441.80	441.71	
13	441.70	441.83	441.68	442.55	442.71	443.17	442.63	442.18	442.02	441.90	441.79	441.70	
14	441.85	441.76	441.65	442.54	443.47	442.98	442.58	442.17	442.00	441.89	441.79	441.70	
15	441.72	441.76	441.70	442.43	443.00	442.88	442.54	442.17	441.99	441.89	441.78	441.70	
16	441.68	441.86	441.76	442.39	442.71	442.85	442.50	442.17	441.98	441.89	441.78	441.69	
17	441.65	442.10	441.74	442.45	442.64	442.70	442.47	442.16	441.98	441.88	441.77	441.70	
18	441.68	442.00	441.67	442.26	442.80	442.62	442.45	442.15	441.98	441.88	441.77	441.70	
19	441.65	441.84	441.66	442.17	442.70	442.56	442.44	442.15	441.98	441.88	441.77	441.70	
20	441.64	441.75	441.72	442.13	442.66	442.86	442.42	442.14	441.97	441.88	441.77	441.69	
21	441.67	441.72	441.70	442.13	442.58	442.64	442.41	442.14	441.97	441.87	441.76	441.69	
22	441.64	441.68	441.66	442.19	442.52	442.60	442.40	442.13	441.97	441.87	441.76	441.69	
23	441.64	441.71	441.69	442.33	442.47	443.01	442.37	442.13	441.97	441.87	441.76	441.69	
24	441.63	441.69	441.65	442.31	442.41	442.85	442.37	442.12	441.97	441.87	441.75	441.69	
25	441.62	441.66	441.64	442.17	442.43	443.30	442.37	442.11	441.96	441.86	441.75	441.68	
26	441.64	441.69	441.65	442.12	442.40	443.96	442.35	442.10	441.96	441.86	441.74	441.68	
27	441.69	441.96	441.63	442.08	442.42	443.30	442.34	442.09	441.95	441.85	441.74	441.68	
28	441.65	441.96	441.84	442.15	442.33	443.03	442.32	442.09	441.95	441.85	441.73	441.68	
29	441.62	441.84	442.10	442.28	442.51	442.89	442.30	442.08	441.95	441.84		441.67	
30	441.62	441.73	441.94	442.49	442.69	442.81	442.27	442.08	441.95	441.84		441.67	
31		441.69		442.70	442.59		442.27		441.95	441.84		441.67	
MEAN	441.65	441.75	441.72	442.44	442.56	442.87	442.55	442.17	442.00	441.89	441.79	441.70	
MAX	441.85	442.10	442.10	443.45	443.47	443.96	442.88	442.26	442.07	441.96	441.83	441.76	443.96
MIN	441.61	441.60	441.63	441.85	442.29	442.49	442.27	442.08	441.95	441.84	441.73	441.67	441.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 444.65 M (MSL), AT 18.00 HOURS, ON JUL 3, 1978

ZERO GAGE AT BOTTOM ELEVATION 441.12 M (MSL), RIVER BED 440.98 M (MSL)

LEFT BANK ELEVATION 448.48 M (MSL)

RIGHT BANK ELEVATION 448.20 M (MSL), DRAINAGE AREA 1765 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.58	4.39	6.32	9.40	52.50	60.04	54.28	23.08	15.78	11.95	8.96	6.98	
2	4.58	4.20	5.34	24.04	42.20	67.14	54.28	23.08	15.44	12.24	8.96	7.42	
3	4.58	4.20	6.76	126.00	40.40	61.80	59.16	22.60	15.10	11.95	8.96	7.20	
4	4.58	4.20	5.91	108.80	30.80	57.40	57.40	22.12	15.10	11.66	8.96	6.98	
5	4.58	5.91	5.91	39.80	29.64	44.16	56.62	21.64	15.10	11.37	8.74	6.76	
6	4.58	5.72	5.91	27.90	27.90	40.40	62.68	21.16	14.76	11.37	8.74	6.54	
7	4.39	4.96	7.20	20.68	24.52	36.20	57.40	20.68	14.76	11.08	8.52	6.54	
8	4.39	5.72	9.18	47.56	26.74	37.40	48.92	20.68	14.42	11.08	8.52	6.54	
9	4.39	5.15	7.42	52.72	36.20	66.20	48.24	22.60	14.42	10.79	8.52	6.54	
10	4.39	4.96	7.42	51.16	33.80	64.44	51.16	20.68	14.42	10.79	8.74	6.54	
11	4.58	9.40	6.10	54.28	26.16	59.16	64.44	19.86	14.76	10.50	8.30	6.32	
12	4.58	5.91	5.91	57.40	25.00	80.30	55.84	19.86	14.42	10.50	8.30	6.32	
13	6.10	8.96	5.72	39.80	50.38	94.10	44.84	19.52	14.08	10.50	8.08	6.10	
14	9.40	7.42	5.15	39.20	128.56	73.72	41.60	19.18	13.40	10.28	8.08	6.10	
15	6.54	7.42	6.10	32.60	75.60	64.44	39.20	19.18	13.11	10.28	7.86	6.10	
16	5.72	9.62	7.42	30.22	50.38	61.80	36.80	19.18	12.82	10.28	7.86	5.91	
17	5.15	16.80	6.98	33.80	45.52	49.60	35.00	18.84	12.82	10.06	7.64	6.10	
18	5.72	13.40	5.53	23.09	57.40	44.16	33.80	18.50	12.82	10.06	7.64	6.10	
19	5.15	9.18	5.34	19.18	49.60	40.40	33.20	18.50	12.82	10.06	7.64	6.10	
20	4.96	7.20	6.54	17.82	46.88	62.68	32.00	18.16	12.53	10.06	7.64	5.91	
21	5.53	6.54	6.10	17.82	41.60	45.52	31.40	18.16	12.53	9.84	7.42	5.91	
22	4.96	5.72	5.34	19.86	38.00	42.80	30.80	17.82	12.53	9.84	7.42	5.91	
23	4.96	6.32	5.91	26.74	35.00	76.54	29.06	17.82	12.53	9.84	7.42	5.91	
24	4.77	5.91	5.15	25.58	31.40	61.80	29.06	17.48	12.53	9.84	7.20	5.91	
25	4.58	5.34	4.96	19.18	32.60	108.80	29.06	17.14	12.24	9.62	7.20	5.72	
26	4.96	5.91	5.15	17.48	30.80	202.03	27.90	16.80	12.24	9.62	6.98	5.72	
27	5.91	12.24	4.77	16.12	32.00	108.80	27.32	16.46	11.95	9.40	6.98	5.72	
28	5.15	12.24	9.18	18.50	26.74	78.42	26.16	16.46	11.95	9.40	6.76	5.72	
29	4.58	9.18	16.80	24.04	37.40	65.32	25.00	16.12	11.95	9.18		5.53	
30	4.58	6.76	11.66	36.20	48.92	58.28	23.56	16.12	11.95	9.18		5.53	
31		5.91		49.60	42.20		23.56		11.95	9.18		5.53	
TOTAL	152.92	226.79	203.18	1126.56	1297.84	2013.85	1269.74	579.48	417.23	321.80	224.04	192.21	8025.63 CMSDAY
MEAN	5.10	7.32	6.77	36.34	41.87	67.13	40.96	19.32	13.46	10.38	8.00	6.20	21.99 CMS
MAX	9.40	16.80	16.80	126.00	128.56	202.03	64.44	23.08	15.78	12.24	8.96	7.42	202.03 CMS
MIN	4.39	4.20	4.77	9.40	24.52	36.20	23.56	16.12	11.95	9.18	6.76	5.53	4.20 CMS
RUNOFF	13.212	19.595	17.555	97.335	112.133	173.996	109.705	50.067	36.049	27.804	19.357	16.607	693.414 MCM

MOMENTARY PEAK 332.30 CMS, AT 444.65 M (MSL), AT 18.00 HOURS, ON JUL 3, 1978

RUNOFF YIELD 12.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 188.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

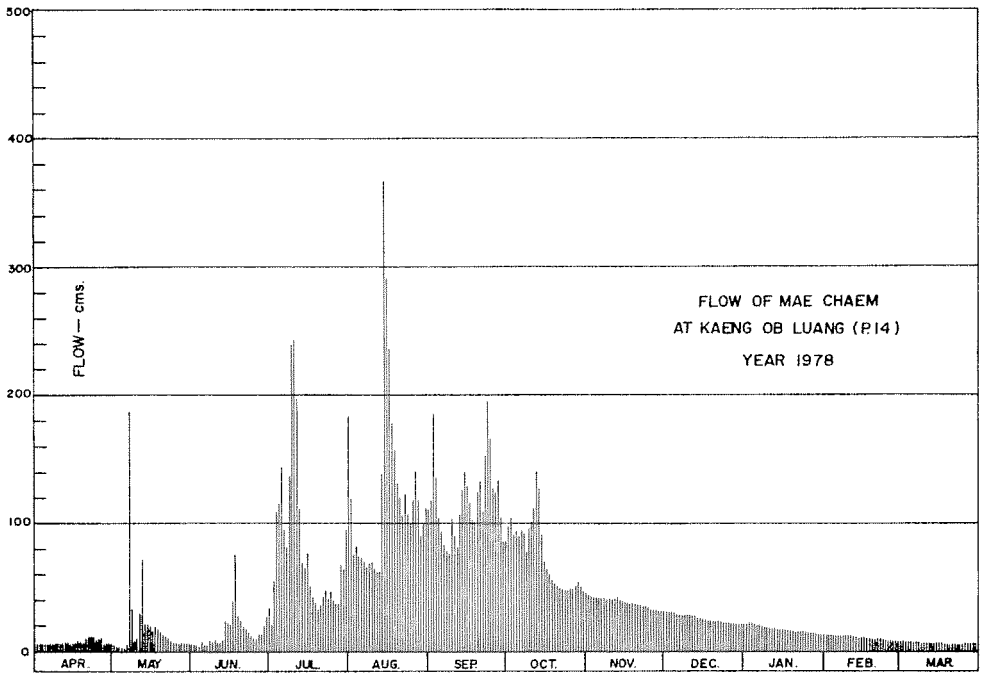
MAE CHAEM AT KAENG OB LUANG, CHIANG MAI (P.14)

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.S./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 23 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	276.76	276.75	276.74	277.01	278.10	278.05	277.90	277.38	277.20	277.05	276.92	276.83	
2	276.75	276.73	276.73	277.40	277.68	278.57	277.96	277.37	277.20	277.06	276.92	276.83	
3	276.75	276.67	276.72	278.15	277.76	278.20	277.82	277.36	277.19	277.08	276.92	276.83	
4	276.75	276.64	276.77	278.05	277.63	277.97	277.87	277.35	277.18	277.05	276.91	276.83	
5	276.76	276.61	276.74	278.27	277.67	277.87	277.81	277.34	277.18	277.05	276.91	276.83	
6	276.77	276.72	276.73	277.87	277.64	277.78	277.87	277.34	277.17	277.04	276.91	276.82	
7	276.77	278.58	276.82	277.75	277.59	277.73	277.86	277.34	277.17	277.04	276.91	276.82	
8	276.78	277.23	276.81	278.11	277.62	277.70	277.72	277.34	277.16	277.03	276.91	276.81	
9	276.80	276.82	276.83	278.93	277.63	277.95	277.85	277.33	277.16	277.02	276.91	276.81	
10	276.80	276.87	276.81	278.95	277.60	277.78	277.94	277.33	277.16	277.01	276.92	276.81	
11	276.81	277.11	276.79	278.49	277.54	277.73	277.99	277.34	277.15	277.01	276.92	276.81	
12	276.82	277.66	276.83	278.02	277.57	278.00	278.25	277.35	277.14	277.01	276.91	276.81	
13	276.81	277.06	277.08	277.66	278.30	278.09	278.03	277.33	277.13	277.01	276.89	276.79	
14	276.79	277.06	277.08	277.57	279.60	278.25	277.79	277.31	277.12	277.00	276.88	276.78	
15	276.80	277.01	277.04	277.71	279.35	278.16	277.67	277.31	277.11	276.99	276.88	276.78	
16	276.81	276.95	277.22	277.49	278.72	278.07	277.60	277.30	277.10	276.99	276.88	276.78	
17	276.83	277.02	277.70	277.41	278.40	277.95	277.55	277.29	277.09	276.98	276.88	276.77	
18	276.82	277.00	277.15	277.30	278.37	277.91	277.51	277.29	277.09	276.98	276.87	276.76	
19	276.81	276.98	277.09	277.23	278.15	278.13	277.48	277.28	277.09	276.98	276.86	276.76	
20	276.85	276.91	277.04	277.20	278.05	278.16	277.46	277.28	277.09	276.97	276.86	276.76	
21	276.88	276.89	276.97	277.29	277.96	277.99	277.44	277.27	277.09	276.97	276.86	276.76	
22	276.89	276.86	276.91	277.40	278.14	278.33	277.44	277.26	277.09	276.97	276.85	276.76	
23	276.89	276.82	276.89	277.33	277.92	278.64	277.42	277.26	277.09	276.96	276.84	276.76	
24	276.84	276.81	276.87	277.40	277.91	278.26	277.42	277.25	277.08	276.96	276.84	276.76	
25	276.85	276.80	276.86	277.30	278.02	278.15	277.43	277.24	277.08	276.96	276.83	276.76	
26	276.89	276.79	276.92	277.30	278.24	278.10	277.42	277.23	277.07	276.96	276.83	276.76	
27	276.75	276.80	276.92	277.26	278.05	278.20	277.43	277.22	277.06	276.95	276.83	276.76	
28	276.77	276.80	277.01	277.62	277.83	277.94	277.48	277.22	277.06	276.94	276.83	276.76	
29	276.79	276.78	277.12	277.56	277.89	277.79	277.44	277.22	277.06	276.94		276.76	
30	276.78	276.77	277.18	277.76	278.02	277.80	277.41	277.21	277.06	276.93		276.76	
31		276.76		278.56	278.00		277.39		277.06	276.93		276.76	
MEAN	276.81	276.94	276.95	277.72	278.03	278.04	277.67	277.30	277.12	276.99	276.88	276.79	
MAX	276.89	278.58	277.70	278.95	279.60	278.64	278.25	277.38	277.20	277.08	276.92	276.83	279.60
MIN	276.75	276.61	276.72	277.01	277.54	277.70	277.39	277.21	277.06	276.93	276.83	276.76	276.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 280.80 M (MSL), AT 7.00 HOURS, ON MAY 7, 1978
ZERO GAGE AT BOTTOM ELEVATION 275.80 M (MSL), RIVER BED 275.72 M (MSL)
LEFT BANK ELEVATION 285.05 M (MSL)
RIGHT BANK ELEVATION 282.57 M (MSL), DRAINAGE AREA 3853 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.80	5.50	5.20	18.60	121.00	115.00	97.00	44.40	31.00	21.00	13.20	8.50	
2	5.50	4.90	4.90	46.00	73.00	184.80	104.20	43.60	31.00	21.60	13.20	8.50	
3	5.50	3.25	4.60	127.50	81.60	134.00	88.20	42.80	30.30	22.80	13.20	8.50	
4	5.50	2.50	6.10	115.00	68.00	105.40	93.70	42.00	29.60	21.00	12.60	8.50	
5	5.80	1.75	5.20	143.10	72.00	93.70	87.10	41.20	29.60	21.00	12.60	8.50	
6	6.10	4.60	4.90	93.70	69.00	83.80	93.70	41.20	28.90	20.40	12.60	8.00	
7	6.10	186.20	8.00	80.50	64.00	78.30	92.60	41.20	28.90	20.40	12.60	8.00	
8	6.40	33.10	7.50	122.30	67.00	75.00	77.20	41.20	28.20	19.80	12.60	7.50	
9	7.00	8.00	8.50	239.79	68.00	103.00	91.50	40.40	28.20	19.20	12.60	7.50	
10	7.00	10.50	7.50	242.99	65.00	83.80	101.80	40.40	28.20	18.60	13.20	7.50	
11	7.50	24.70	6.70	173.59	59.00	78.30	107.80	41.20	27.50	18.60	13.20	7.50	
12	8.00	71.00	8.50	111.40	62.00	109.00	140.49	42.00	26.80	18.60	12.60	7.50	
13	7.50	21.60	22.80	71.00	147.00	119.80	112.60	40.40	26.10	18.60	11.50	6.70	
14	6.70	21.60	22.80	62.00	366.00	140.49	84.90	38.80	25.40	18.00	11.00	6.40	
15	7.00	18.60	20.40	76.10	314.00	128.80	72.00	38.80	24.70	17.40	11.00	6.40	
16	7.50	15.00	32.40	54.09	207.00	117.40	65.00	38.00	24.00	17.40	11.00	6.40	
17	8.50	19.20	75.00	46.90	161.00	103.00	60.00	37.30	23.40	16.80	11.00	6.10	
18	8.00	18.00	27.50	38.00	156.79	98.20	56.00	37.30	23.40	16.80	10.50	5.80	
19	7.50	16.80	23.40	33.10	127.50	124.90	53.20	36.60	23.40	16.80	10.00	5.80	
20	9.50	12.60	20.40	31.00	115.00	128.80	51.40	36.60	23.40	16.20	10.00	5.80	
21	11.00	11.50	16.20	37.30	104.20	107.80	49.60	35.90	23.40	16.20	10.00	5.80	
22	11.50	10.00	12.60	46.00	126.20	151.20	49.60	35.20	23.40	16.20	9.50	5.80	
23	11.50	8.00	11.50	40.40	99.40	195.00	47.80	35.20	23.40	15.60	9.00	5.80	
24	9.00	7.50	10.50	46.00	98.20	141.80	47.80	34.50	22.80	15.60	9.00	5.80	
25	9.50	7.00	10.00	38.00	111.40	127.50	48.70	33.80	22.80	15.60	8.50	5.80	
26	11.50	6.70	13.20	38.00	139.19	121.00	47.80	33.10	22.20	15.60	8.50	5.80	
27	5.50	7.00	13.20	35.20	115.00	134.00	48.70	32.40	21.60	15.00	8.50	5.80	
28	6.10	7.00	18.60	67.00	89.30	101.80	53.20	32.40	21.60	14.40	8.50	5.80	
29	6.70	6.40	25.40	61.00	95.90	84.90	49.60	32.40	21.60	14.40		5.80	
30	6.40	6.10	29.60	81.60	111.40	86.00	46.90	31.70	21.60	13.80		5.80	
31		5.80		183.39	109.00		45.20		21.60	13.80		5.80	
TOTAL	227.10	582.40	483.10	2600.55	3663.08	3456.49	2265.29	1142.00	788.00	547.20	311.70	209.20	16276.09 CMSDAY
MEAN	7.57	18.79	16.10	83.89	118.16	115.22	73.07	38.07	25.42	17.65	11.13	6.75	44.59 CMS
MAX	11.50	186.20	75.00	242.99	366.00	195.00	140.49	44.40	31.00	22.80	13.20	8.50	366.00 CMS
MIN	5.50	1.75	4.60	18.60	59.00	75.00	45.20	31.70	21.60	13.80	8.50	5.80	1.75 CMS
RUNOFF	19.621	50.319	41.740	224.687	316.490	298.640	195.721	98.669	68.083	47.278	26.931	18.075	1406.254 MCM

MOMENTARY PEAK 687.00 CMS, AT 280.80 M (MSL), AT 7.00 HOURS, ON MAY 7, 1978

RUNOFF YIELD 11.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 178.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

PING RIVER AT KHLONG KHLUNG, KAMPHAENG PHET (P.15)

LOCATION — LAT. 16°-12'-50" N., LONG. 99°-43'-26" E., ON RIGHT BANK INFRONT OF WAT SI PHIROM, AMPHOE KHLONG KHLUNG, KAMPHAENG PHET.

DRAINAGE AREA — 43,805 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +51.555 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — NEAR THE TOP STAFF GAGE.

ELEVATION — +56.617 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1954 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1974

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 32 DISCHARGE MEASUREMENTS MADE DURING 1967-1974. FLOW REGULATED BY PHUMIPHOL DAM RESERVOIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

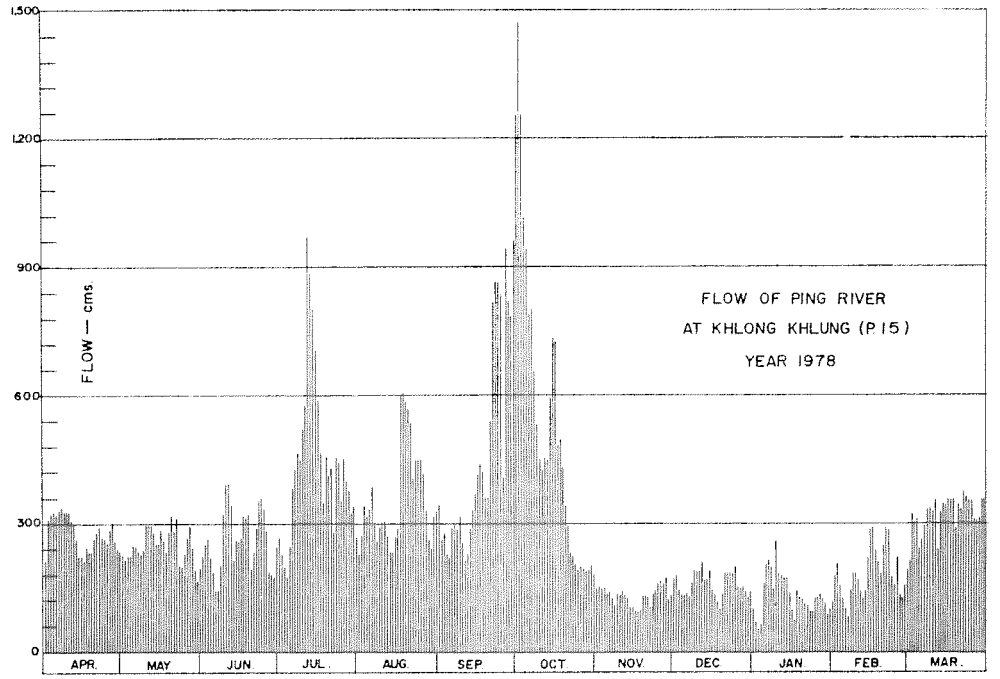
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	53.86	53.93	53.96	54.09	53.91	54.32	56.20	53.65	53.75	53.50	53.51	53.78	
2	54.21	53.91	54.03	53.93	54.13	54.06	56.59	53.69	53.78	53.35	53.74	53.90	
3	54.25	53.94	54.08	53.84	54.31	54.12	56.33	53.66	53.69	53.23	53.88	54.24	
4	54.26	53.93	53.98	53.76	54.23	53.96	55.78	53.68	53.60	53.25	53.73	54.18	
5	54.23	54.02	53.77	53.92	54.28	53.92	55.68	53.58	53.59	53.55	53.60	54.22	
6	54.25	54.02	53.67	54.39	54.43	54.16	55.33	53.63	53.63	53.84	53.51	54.01	
7	54.29	53.98	53.58	54.48	54.27	54.19	55.34	53.58	53.58	53.91	53.30	54.07	
8	54.23	53.95	53.85	54.61	54.04	54.13	55.16	53.42	53.70	53.83	53.55	54.15	
9	54.27	53.97	54.21	54.58	54.16	54.24	54.80	53.61	53.81	53.64	53.78	54.28	
10	54.27	54.18	54.44	54.72	54.20	54.04	54.61	53.61	53.80	54.07	53.79	54.29	
11	54.18	54.18	54.44	54.87	54.21	53.90	54.51	53.64	53.81	53.79	53.76	54.27	
12	54.19	54.18	54.35	55.69	54.06	53.92	54.60	53.55	53.89	53.78	53.67	54.34	
13	54.02	54.12	53.89	55.51	53.98	54.19	54.79	53.57	53.74	53.76	53.55	53.94	
14	53.89	54.03	54.07	55.24	53.96	54.30	54.95	53.49	53.74	53.76	53.58	54.25	
15	53.93	54.02	54.06	55.14	54.07	54.41	55.22	53.52	53.82	53.65	53.75	54.31	
16	53.88	54.14	54.07	54.93	54.14	54.46	55.21	53.44	53.65	53.55	54.15	54.30	
17	54.01	54.06	54.24	54.66	54.76	54.55	54.85	53.42	53.60	53.30	54.17	54.35	
18	53.96	53.97	54.23	54.28	54.94	54.51	54.70	53.42	53.52	53.64	53.99	54.34	
19	53.96	54.11	54.25	54.61	54.91	54.33	54.50	53.56	53.43	53.56	53.98	54.34	
20	54.06	54.23	53.80	54.49	54.87	54.36	54.28	53.60	53.57	53.55	53.78	54.13	
21	54.12	54.08	54.00	54.54	54.80	54.97	54.18	53.59	53.80	53.55	53.96	54.31	
22	54.16	54.22	54.10	54.11	54.45	55.38	53.97	53.54	53.78	53.38	54.16	54.27	
23	54.08	53.88	54.32	54.60	54.59	55.49	53.93	53.41	53.80	53.47	54.14	54.39	
24	54.08	53.82	54.36	54.57	54.59	55.48	53.84	53.61	53.77	53.37	53.85	54.36	
25	54.04	53.95	54.31	54.28	54.59	55.44	53.81	53.68	53.85	53.53	53.67	54.34	
26	54.13	54.09	54.15	54.60	54.49	54.47	53.86	53.74	53.66	53.56	53.93	54.35	
27	54.19	54.15	53.80	54.45	54.26	55.64	53.83	53.70	53.67	53.58	53.61	54.22	
28	54.06	54.01	53.79	54.42	54.09	55.41	53.80	53.76	53.68	53.54	53.53	54.21	
29	53.99	53.79	53.75	54.25	53.99	55.34	53.85	53.67	53.65	53.53		54.23	
30	53.98	53.71	53.99	54.30	54.24	55.59	53.86	53.52	53.56	53.36		54.32	
31		53.83		54.13	54.27		53.79		53.63	53.44		54.34	
MEAN	54.10	54.01	54.05	54.52	54.33	54.58	54.71	53.58	53.70	53.57	53.77	54.23	
MAX	54.29	54.23	54.44	55.69	54.94	55.64	56.59	53.76	53.89	54.07	54.17	54.39	56.59
MIN	53.86	53.71	53.58	53.76	53.91	53.90	53.79	53.41	53.43	53.23	53.30	53.78	53.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 56.72 M (MSL), AT 18.00 HOURS, ON OCT 2, 1978

ZERO GAGE AT BOTTOM ELEVATION 51.55 M (MSL), RIVER BED 51.02 M (MSL)

LEFT BANK ELEVATION 56.88 M (MSL)

RIGHT BANK ELEVATION 56.90 M (MSL), DRAINAGE AREA 43805 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	203.2	222.4	230.8	269.0	216.8	347.6	1240.0	148.0	173.5	114.0	116.2	181.6	
2	309.4	216.8	251.0	222.4	282.2	260.0	1469.8	157.6	181.6	82.0	170.8	214.0	
3	323.0	225.2	266.0	197.8	343.8	278.8	1313.4	150.4	157.6	58.0	208.6	319.6	
4	326.4	222.4	236.4	176.2	316.2	230.8	1015.6	155.2	136.0	62.0	168.1	299.2	
5	316.2	248.0	178.9	219.6	333.2	219.6	964.0	131.6	133.8	125.0	136.0	312.8	
6	323.0	248.0	152.8	374.2	389.4	292.4	789.7	143.2	143.2	197.8	116.2	245.0	
7	336.6	236.4	131.6	408.4	329.8	302.6	794.6	131.6	131.6	216.8	72.0	263.0	
8	316.2	228.0	200.5	460.2	254.0	282.2	707.6	96.4	160.0	195.1	125.0	289.0	
9	329.8	233.6	309.4	448.0	292.4	319.6	542.0	138.4	189.7	145.6	181.6	333.2	
10	329.8	299.2	393.2	506.8	306.0	254.0	460.2	138.4	187.0	263.0	184.3	336.6	
11	299.2	299.2	393.2	574.2	309.4	214.0	420.0	145.6	189.7	184.3	176.2	329.8	
12	302.6	299.2	359.0	969.0	260.0	219.6	456.0	125.0	211.3	181.6	152.8	355.2	
13	248.0	278.8	211.3	879.0	236.4	302.6	537.6	129.4	170.8	176.2	125.0	225.2	
14	211.3	251.0	263.0	745.6	230.8	340.0	611.0	111.8	170.8	176.2	131.6	323.0	
15	222.4	248.0	260.0	698.4	263.0	381.8	735.8	118.4	192.4	148.0	173.5	343.8	
16	208.6	285.6	263.0	601.8	285.6	400.8	730.9	100.8	148.0	125.0	289.0	340.0	
17	245.0	260.0	319.6	481.2	524.4	436.0	565.0	96.4	136.0	72.0	295.8	359.0	
18	230.8	233.6	316.2	333.2	606.4	420.0	498.0	96.4	118.4	145.6	239.2	355.2	
19	230.8	275.4	323.0	460.2	592.6	351.4	416.0	127.2	98.6	127.2	236.4	355.2	
20	260.0	316.2	187.0	412.2	574.2	362.8	333.2	136.0	129.4	125.0	181.6	282.2	
21	278.8	266.0	242.0	432.0	542.0	620.2	299.2	133.8	187.0	125.0	230.8	343.8	
22	292.4	312.8	272.0	275.4	397.0	814.2	233.6	122.8	181.6	88.0	292.4	329.8	
23	266.0	208.6	347.6	456.0	452.0	869.0	222.4	94.2	187.0	107.4	285.6	374.2	
24	266.0	192.4	362.8	444.0	452.0	864.0	197.8	138.4	178.9	86.0	200.5	362.8	
25	254.0	228.0	343.8	333.2	452.0	844.0	189.7	155.2	200.5	120.6	152.8	355.2	
26	282.2	269.0	289.0	456.0	412.2	404.6	203.2	170.8	150.4	127.2	222.4	359.0	
27	302.6	289.0	187.0	397.0	326.4	944.0	195.1	160.0	152.8	131.6	138.4	312.8	
28	260.0	245.0	184.3	385.6	269.0	829.0	187.0	176.2	155.2	122.8	120.6	309.4	
29	239.2	184.3	173.5	323.0	239.2	794.6	200.5	152.8	148.0	120.6		316.2	
30	236.4	162.7	239.2	340.0	319.6	919.0	203.2	118.4	127.2	84.0		347.6	
31		195.1		282.2	329.8		184.3		143.2	100.8		355.2	
TOTAL	8249.9	7679.9	7887.1	13561.8	11137.8	14119.2	16916.4	4000.4	4971.2	4134.4	5123.4	9828.6	107610.0 CMSDAY
MEAN	275.0	247.7	262.9	437.5	359.3	470.6	545.7	133.3	160.4	133.4	183.0	317.1	294.8 CMS
MAX	336.6	316.2	393.2	969.0	606.4	944.0	1469.8	176.2	211.3	263.0	295.8	374.2	1469.8 CMS
MIN	203.2	162.7	131.6	176.2	216.8	214.0	184.3	94.2	98.6	58.0	72.0	181.6	58.0 CMS
RUNOFF	712.79	663.54	681.44	1171.74	962.30	1219.90	1461.58	345.63	429.51	357.21	442.66	849.19	9297.50 MCM

MOMENTARY PEAK 1550.80 CMS, AT 56.72 M (MSL), AT 18.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 6.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

PING RIVER AT BANPHOT PHISAI, NAKHON SAWAN (P.17)

LOCATION — LAT. 15°56'02" N., LONG. 99°58'49" E., ON RIGHT BANK ABOUT 300 METERS UPSTREAM FROM DISTRICT OFFICE, TAMBON SIEO, AMPHOE BANPHOT PHISAI, NAKHON SAWAN.

DRAINAGE AREA — 45,851 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +32.00 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — AT THE FOOT OF THE SLING POLE NEAR GAGE SITE.

ELEVATION — +37.697 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1954 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1960, 1967-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960, 1967-1974

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

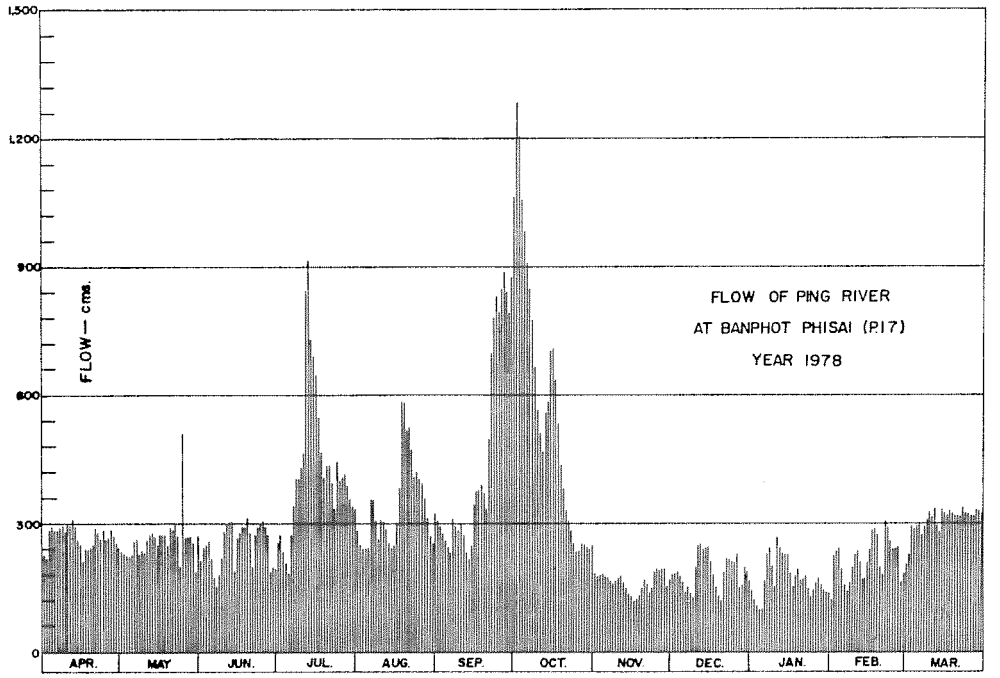
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 90 DISCHARGE MEASUREMENTS MADE DURING 1967-1971. FLOW REGULATED BY PHUMIPHOL DAM RESERVOIR AND DIVERTED FOR IRRIGATION OF ABOUT 40,300 HECTARES ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	35.07	35.11	35.02	35.19	35.33	35.38	37.20	34.92	34.89	34.71	34.61	34.92	
2	35.02	35.09	35.14	35.26	35.16	35.34	37.52	34.87	34.88	34.66	34.82	35.03	
3	35.28	35.07	35.17	35.10	35.48	35.30	37.63	34.90	34.93	34.52	35.07	35.33	
4	35.32	35.06	35.20	35.02	35.49	35.25	37.21	34.91	34.88	34.47	35.15	35.29	
5	35.27	35.07	35.12	34.89	35.48	35.18	37.10	34.85	34.77	34.48	34.99	35.32	
6	35.30	35.20	34.90	35.29	35.53	35.07	36.94	34.87	34.68	34.86	34.80	35.34	
7	35.31	35.22	34.73	35.46	35.53	35.38	36.82	34.84	34.75	35.08	34.71	35.21	
8	35.33	35.04	34.90	35.66	35.43	35.33	36.70	34.78	34.69	35.14	34.72	35.31	
9	35.27	35.11	34.99	35.68	35.22	35.30	36.32	34.81	34.61	35.05	34.94	35.33	
10	35.35	35.10	35.29	35.72	35.37	35.34	36.10	34.85	34.92	34.72	35.05	35.42	
11	35.32	35.22	35.35	35.85	35.36	35.20	35.94	34.88	35.15	35.22	35.11	35.38	
12	35.36	35.25	35.35	36.63	35.29	35.16	35.85	34.85	35.22	35.15	35.12	35.45	
13	35.32	35.27	35.37	36.92	35.25	35.04	36.07	34.77	35.12	35.11	34.89	35.34	
14	35.18	35.25	34.93	36.58	35.15	35.40	36.13	34.69	35.13	35.09	34.79	35.25	
15	35.16	35.16	35.23	36.35	35.16	35.47	36.45	34.66	35.15	35.09	34.94	35.45	
16	34.97	35.25	35.27	36.32	35.30	35.58	36.48	34.61	35.04	34.90	35.08	35.41	
17	35.13	35.25	35.32	36.00	35.54	35.59	36.29	34.62	34.85	34.73	35.29	35.40	
18	35.13	35.26	35.30	35.79	36.16	35.63	36.00	34.66	34.76	34.85	35.30	35.43	
19	35.14	35.17	35.38	35.64	36.16	35.57	35.82	34.74	34.68	34.94	35.27	35.42	
20	35.17	35.31	35.31	35.76	35.98	35.44	35.64	34.83	34.62	34.84	35.21	35.40	
21	35.31	35.29	34.96	35.77	36.01	35.72	35.49	34.77	34.85	34.80	34.89	35.40	
22	35.25	35.35	35.23	35.55	35.78	36.38	35.38	34.70	35.05	34.87	35.25	35.39	
23	35.23	35.26	35.31	35.47	35.67	36.62	35.30	34.65	35.04	34.74	35.37	35.46	
24	35.28	34.98	35.33	35.79	35.72	36.74	35.22	34.90	35.03	34.65	35.25	35.42	
25	35.21	35.97	35.36	35.66	35.67	36.65	35.11	34.94	35.01	34.71	35.12	35.42	
26	35.23	35.18	35.33	35.67	35.66	36.72	35.12	34.93	35.09	34.78	35.14	35.41	
27	35.28	35.23	35.29	35.71	35.54	36.87	35.18	34.94	34.75	34.85	35.16	35.39	
28	35.24	35.24	34.91	35.60	35.40	36.78	35.18	34.95	34.76	34.82	34.80	35.44	
29	35.18	35.19	34.98	35.53	35.27	36.64	35.17	34.73	34.91	34.75		35.44	
30	35.13	34.90	34.95	35.48	35.18	36.82	35.14	34.80	34.98	34.71		35.43	
31		34.86		35.45	35.43		35.17		34.85	34.70		35.38	
MEAN	35.22	35.19	35.16	35.70	35.51	35.76	36.05	34.81	34.90	34.84	35.03	35.36	
MAX	35.36	35.97	35.38	36.92	36.16	36.87	37.63	34.95	35.22	35.22	35.37	35.46	37.63
MIN	34.97	34.86	34.73	34.89	35.15	35.04	35.11	34.61	34.61	34.47	34.61	34.92	34.47

ANNUAL MAX MOMENTARY GAGE HEIGHT 37.67 M (MSL), AT 6.00 HOURS, ON OCT 3, 1978
ZERO GAGE AT BOTTOM ELEVATION 32.00 M (MSL), RIVER BED 31.29 M (MSL)
LEFT BANK ELEVATION 37.51 M (MSL)
RIGHT BANK ELEVATION 37.60 M (MSL), DRAINAGE AREA 45851 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	224.5	234.7	212.0	256.3	296.3	311.8	1049.0	188.6	181.8	142.2	122.9	188.6	
2	212.0	229.5	242.8	275.8	248.2	299.4	1219.0	177.4	179.6	132.4	166.4	214.5	
3	281.4	224.5	250.9	232.0	342.8	287.0	1280.1	184.0	190.9	106.6	224.5	296.3	
4	293.2	222.0	259.0	212.0	345.9	273.0	1054.1	186.3	179.6	98.2	245.5	284.2	
5	278.6	224.5	237.4	181.8	342.8	253.6	998.0	173.0	155.4	99.8	204.7	293.2	
6	287.0	259.0	184.0	284.2	358.9	224.5	922.8	177.4	136.2	175.2	162.0	299.4	
7	290.1	264.6	146.6	336.6	358.9	311.8	866.4	170.8	151.0	227.0	142.2	261.8	
8	296.3	217.0	184.0	401.8	327.3	296.3	810.0	157.6	138.1	242.8	144.4	290.1	
9	278.6	234.7	204.7	408.4	264.6	287.0	649.0	164.2	122.9	219.5	193.2	296.3	
10	302.5	232.0	284.2	421.8	308.7	299.4	562.0	173.0	188.6	144.4	219.5	324.2	
11	293.2	264.6	302.5	467.5	305.6	259.0	500.8	179.6	245.5	264.6	234.7	311.8	
12	305.6	273.0	302.5	778.5	284.2	248.2	467.5	173.0	264.6	245.5	237.4	333.5	
13	293.2	278.6	308.7	913.4	273.0	217.0	550.3	155.4	237.4	234.7	181.8	299.4	
14	253.6	273.0	190.9	756.4	245.5	318.0	573.7	138.1	240.1	229.5	159.8	273.0	
15	248.2	248.2	267.4	661.0	248.2	339.7	701.5	132.4	245.5	229.5	193.2	333.5	
16	200.1	273.0	278.6	649.0	287.0	375.4	713.8	122.9	217.0	184.0	227.0	321.1	
17	240.1	273.0	293.2	523.0	362.2	378.7	637.0	124.8	173.0	146.6	284.2	318.0	
18	240.1	275.8	287.0	445.6	585.4	391.9	523.0	132.4	153.2	173.0	287.0	327.3	
19	242.8	250.9	311.8	395.2	585.4	372.1	456.4	148.8	136.2	193.2	278.6	324.2	
20	250.9	290.1	290.1	435.4	515.6	330.4	395.2	168.6	124.8	170.8	261.8	318.0	
21	290.1	284.2	197.8	438.8	526.9	421.8	345.9	155.4	173.0	162.0	181.8	318.0	
22	273.0	302.5	267.4	365.5	442.2	673.0	311.8	140.0	219.5	177.4	273.0	314.9	
23	267.4	275.8	290.1	339.7	405.1	774.0	287.0	130.5	217.0	148.8	308.7	336.6	
24	281.4	202.4	296.3	445.6	421.8	828.8	264.6	184.0	214.5	130.5	273.0	324.2	
25	261.8	511.9	305.6	401.8	405.1	787.5	234.7	193.2	209.5	142.2	237.4	324.2	
26	267.4	253.6	296.3	405.1	401.8	819.4	237.4	190.9	229.5	157.6	242.8	321.1	
27	281.4	267.4	284.2	418.4	362.2	889.9	253.6	193.2	151.0	173.0	248.2	314.9	
28	270.2	270.2	186.3	382.0	318.0	847.6	253.6	195.5	153.2	166.4	162.0	330.4	
29	253.6	256.3	202.4	358.9	278.6	783.0	250.9	146.6	186.3	151.0		330.4	
30	240.1	184.0	195.5	342.8	253.6	866.4	242.8	162.0	202.4	142.2		327.3	
31		175.2		333.5	327.3		250.9		173.0	140.0		311.8	
TOTAL	7998.4	8026.2	7560.2	13267.8	11029.1	13765.6	17862.8	4919.6	5790.3	5350.6	6097.7	9462.2	111130.4 CMSDAY
MEAN	266.6	258.9	252.0	428.0	355.8	458.9	576.2	164.0	186.8	172.6	217.8	305.2	304.5 CMS
MAX	305.6	511.9	311.8	913.4	585.4	889.9	1280.1	195.5	264.6	264.6	308.7	336.6	1280.1 CMS
MIN	200.1	175.2	146.6	181.8	245.5	217.0	234.7	122.9	122.9	98.2	122.9	188.6	98.2 CMS
RUNOFF	691.06	693.46	653.20	1146.34	952.91	1189.35	1543.34	425.05	500.28	462.29	526.84	817.53	9601.66 MCM

MOMENTARY PEAK 1302.90 CMS, AT 37.67 M (MSL), AT 6.00 HOURS, ON OCT 3, 1978

RUNOFF YIELD 6.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 28.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S./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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

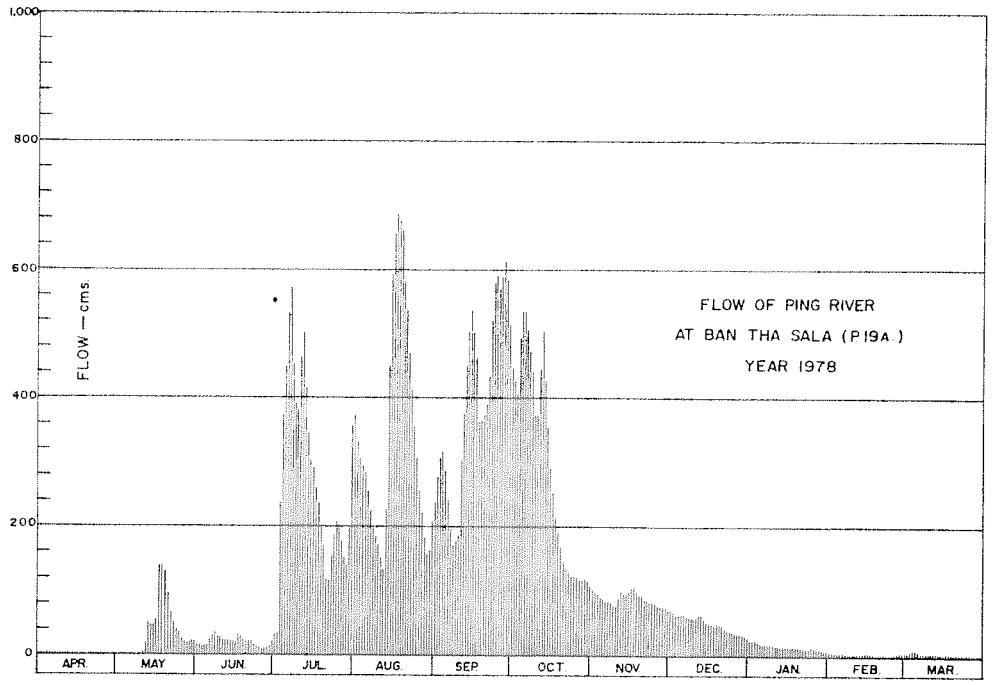
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 144 DISCHARGE MEASUREMENTS MADE IN 1978. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 28,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	272.07	272.04	272.44	272.57	274.59	273.95	274.88	273.04	272.75	272.30	271.99	271.96	
2	272.08	272.04	272.41	272.59	274.39	274.10	274.83	273.02	272.75	272.27	271.97	271.96	
3	272.08	272.04	272.39	273.52	274.27	274.28	274.72	272.98	272.73	272.28	271.96	272.00	
4	272.08	272.04	272.38	274.59	274.24	274.34	275.01	272.97	272.72	272.25	271.95	272.05	
5	272.08	272.04	272.40	274.83	274.20	274.21	275.22	272.93	272.72	272.23	271.95	272.06	
6	272.08	272.04	272.49	275.14	274.09	274.06	275.22	272.91	272.73	272.20	271.94	272.04	
7	272.07	272.03	272.56	275.35	273.91	273.80	275.10	272.89	272.71	272.19	271.93	272.02	
8	272.07	272.02	272.62	274.98	273.79	273.60	275.00	272.89	272.69	272.19	271.91	271.98	
9	272.07	272.03	272.59	274.65	273.69	273.63	274.82	272.83	272.67	272.19	271.92	271.96	
10	272.07	272.04	272.54	274.61	273.65	273.68	274.58	272.83	272.66	272.18	271.90	271.95	
11	272.05	272.11	272.53	274.90	273.55	274.07	274.57	272.92	272.65	272.17	271.90	271.95	
12	272.05	272.32	272.49	275.10	273.39	274.53	274.90	273.00	272.72	272.17	271.90	271.95	
13	272.07	272.78	272.47	274.79	273.74	274.81	275.11	272.98	272.72	272.14	271.90	271.93	
14	272.06	272.76	272.48	274.42	274.84	275.10	274.81	272.97	272.68	272.13	271.89	271.86	
15	272.05	272.72	272.46	274.25	275.40	275.22	274.44	272.97	272.62	272.14	271.89	271.85	
16	272.05	272.79	272.44	274.23	275.60	275.07	274.16	273.04	272.60	272.13	271.88	271.84	
17	272.04	273.15	272.59	274.07	275.71	274.93	273.96	273.06	272.57	272.13	271.88	271.81	
18	272.04	273.43	272.54	273.99	275.67	274.53	273.78	272.99	272.58	272.13	271.88	271.80	
19	272.02	273.44	272.52	273.78	275.63	274.55	273.54	272.96	272.60	272.11	271.87	271.80	
20	272.02	273.31	272.48	273.50	275.47	274.57	273.42	272.96	272.59	272.11	271.87	271.78	
21	272.04	273.11	272.49	273.31	275.19	274.62	273.33	272.94	272.56	272.11	271.85	271.78	
22	272.06	272.93	272.49	273.28	274.94	274.74	273.25	272.91	272.50	272.08	271.85	271.78	
23	272.06	272.80	272.42	273.48	274.77	275.17	273.20	272.90	272.47	272.06	271.85	271.77	
24	272.06	272.70	272.36	273.63	274.46	275.35	273.17	272.88	272.46	272.08	271.86	271.76	
25	272.06	272.63	272.32	273.78	274.18	275.41	273.18	272.86	272.45	272.11	271.88	271.76	
26	272.06	272.57	272.30	273.77	274.03	275.32	273.17	272.84	272.43	272.12	271.91	271.75	
27	272.06	272.51	272.30	273.64	273.96	275.42	273.15	272.82	272.43	272.11	271.93	271.80	
28	272.05	272.44	272.32	273.50	273.66	275.48	273.12	272.83	272.42	272.10	271.96	271.79	
29	272.05	272.46	272.35	273.43	273.53	275.43	273.15	272.81	272.38	272.07		271.78	
30	272.05	272.50	272.38	273.71	273.55	275.17	273.14	272.78	272.36	272.03		271.77	
31		272.49		274.45	273.82		273.10		272.33	272.01		271.76	
MEAN	272.06	272.53	272.45	274.06	274.38	274.64	274.10	272.92	272.59	272.15	271.91	271.87	
MAX	272.08	273.44	272.62	275.35	275.71	275.48	275.22	273.06	272.75	272.30	271.99	272.06	275.71
MIN	272.02	272.02	272.30	272.57	273.39	273.60	273.10	272.78	272.33	272.01	271.85	271.75	271.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 275.74 M (MSL), AT 5:00 HOURS, ON AUG 18, 1978
ZERO GAGE AT BOTTOM ELEVATION 271.35 M (MSL), RIVER BED 271.67 M (MSL)
LEFT BANK ELEVATION 276.65 M (MSL)
RIGHT BANK ELEVATION 276.16 M (MSL), DRAINAGE AREA 14023 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.4	0.8	19.2	29.6	373.7	233.5	443.2	103.6	67.5	25.0	6.6	5.4	
2	1.6	0.8	16.8	31.2	327.7	263.0	431.2	100.8	67.5	22.9	5.8	5.4	
3	1.6	0.8	15.4	153.6	300.4	302.6	404.8	95.4	65.3	23.6	5.4	7.0	
4	1.6	0.8	14.8	373.7	293.8	316.2	475.7	94.1	64.2	21.5	5.0	9.5	
5	1.6	0.8	16.0	431.2	285.0	287.2	533.8	88.9	64.2	20.1	5.0	10.0	
6	1.6	0.8	23.2	511.2	261.0	255.0	533.8	86.3	65.3	18.0	4.6	9.0	
7	1.4	0.6	28.8	572.0	225.9	205.0	500.0	83.8	63.1	17.4	4.2	8.0	
8	1.4	0.4	34.0	468.0	203.1	168.0	473.0	83.8	60.9	17.4	3.4	6.2	
9	1.4	0.6	31.2	388.0	184.2	173.4	428.8	76.6	58.7	17.4	3.8	5.4	
10	1.4	0.8	27.2	378.4	177.0	182.4	371.4	76.6	57.6	16.8	3.0	5.0	
11	1.0	2.3	26.4	448.0	159.0	257.0	369.1	87.6	56.5	16.2	3.0	5.0	
12	1.0	11.2	23.2	500.0	131.4	359.9	448.0	98.0	64.2	16.2	3.0	5.0	
13	1.4	50.0	21.6	421.6	193.6	426.4	502.8	95.4	64.2	14.4	3.0	4.2	
14	1.2	48.0	22.4	334.6	433.6	500.0	426.4	94.1	59.8	13.8	2.8	2.2	
15	1.0	44.0	20.8	296.0	587.0	533.8	347.0	94.1	53.2	14.4	2.8	2.0	
16	1.0	51.0	19.2	291.6	650.0	491.9	291.0	103.6	51.0	13.8	2.6	1.8	
17	0.8	95.0	31.2	257.0	686.3	455.5	251.4	106.4	48.3	13.8	2.6	1.2	
18	0.8	138.1	27.2	241.1	673.1	359.9	218.6	96.7	49.2	13.8	2.6	1.0	
19	0.4	139.8	25.6	201.2	659.9	364.5	177.8	92.8	51.0	12.6	2.4	1.0	
20	0.4	118.6	22.4	150.0	608.0	369.1	159.0	92.8	50.1	12.6	2.4	0.8	
21	0.8	89.4	23.2	118.6	525.2	380.8	145.5	90.2	47.4	12.6	2.0	0.8	
22	1.2	66.6	23.2	114.0	458.0	409.6	133.5	86.3	42.0	11.0	2.0	0.8	
23	1.2	52.0	17.6	146.6	416.8	519.6	126.0	85.0	39.3	10.0	2.0	0.7	
24	1.2	42.0	13.6	173.4	343.8	572.0	121.8	82.6	38.4	11.0	2.2	0.6	
25	1.2	35.0	11.2	201.2	280.6	590.0	123.2	80.2	37.5	12.6	2.6	0.6	
26	1.2	29.6	10.0	199.3	249.0	563.0	121.8	77.8	35.7	13.2	3.4	0.5	
27	1.2	24.8	10.0	175.2	235.4	593.0	119.0	75.4	35.7	12.6	4.2	1.0	
28	1.0	19.2	11.2	150.0	178.8	611.0	114.8	76.6	34.8	12.0	5.4	0.9	
29	1.0	20.8	13.0	138.1	155.4	596.0	119.0	74.2	31.4	10.5		0.8	
30	1.0	24.0	14.8	187.9	159.0	519.6	117.6	70.8	29.8	8.5		0.7	
31		23.2		341.5	208.8		112.0		27.4	7.5		0.6	
TOTAL	35.0	1131.8	614.4	8423.8	10624.5	11858.9	9141.0	2650.5	1581.2	463.2	97.8	103.1	46725.1 CMSDAY
MEAN	1.2	36.5	20.5	271.7	342.7	395.3	294.9	88.3	51.0	14.9	3.5	3.3	128.0 CMS
MAX	1.6	139.8	34.0	572.0	686.3	611.0	533.8	106.4	67.5	25.0	6.6	10.0	686.3 CMS
MIN	0.4	0.4	10.0	29.6	131.4	168.0	112.0	70.8	27.4	7.5	2.0	0.5	0.4 CMS
RUNOFF	3.02	97.79	53.08	727.82	917.96	1024.61	789.78	229.00	136.62	40.02	8.45	8.91	4037.05 MCM

MOMENTARY PEAK 696.18 CMS, AT 275.74 M (MSL), AT 5.00 HOURS, ON AUG 18, 1978

RUNOFF YIELD 9.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 49.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

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 — +319.69 M. (M.S.L.)

BENCH MARK — B.M.-H.S./R.I.D. NO.4

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

ELEVATION — +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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

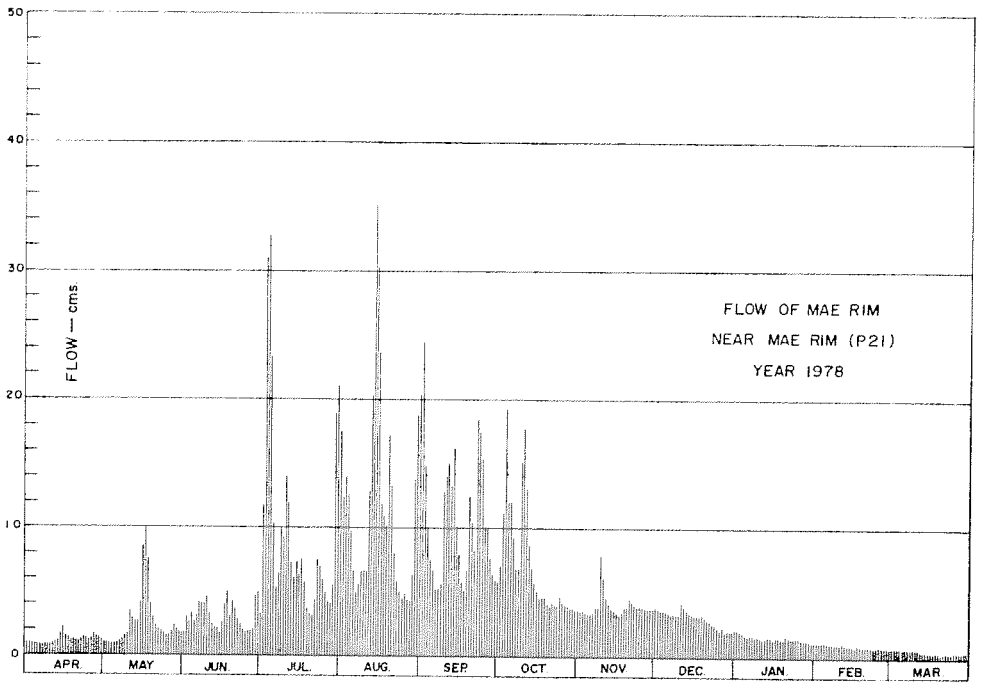
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	320.33	320.36	320.46	320.64	321.56	321.67	320.84	320.68	320.69	320.49	320.36	320.29	
2	320.33	320.36	320.62	321.21	321.27	321.84	320.93	320.66	320.68	320.50	320.37	320.30	
3	320.34	320.32	320.57	322.12	321.35	321.31	321.23	320.66	320.67	320.48	320.36	320.31	
4	320.32	320.31	320.66	322.18	321.33	321.18	321.61	320.66	320.67	320.47	320.38	320.30	
5	320.32	320.32	320.59	321.48	321.14	320.96	321.24	320.65	320.66	320.46	320.38	320.29	
6	320.32	320.32	320.62	320.95	320.91	320.89	321.27	320.65	320.65	320.43	320.35	320.30	
7	320.31	320.36	320.72	320.74	320.79	320.81	320.98	320.66	320.65	320.45	320.34	320.28	
8	320.32	320.39	320.72	321.00	320.82	320.81	320.94	320.69	320.65	320.45	320.36	320.28	
9	320.32	320.43	320.71	321.13	320.91	320.85	320.93	320.70	320.64	320.43	320.36	320.28	
10	320.31	320.46	320.76	321.04	320.92	321.26	321.40	321.00	320.64	320.43	320.36	320.26	
11	320.33	320.66	320.64	321.36	320.85	321.37	321.54	320.86	320.73	320.42	320.34	320.26	
12	320.34	320.59	320.56	321.23	321.16	321.42	321.19	320.78	320.71	320.40	320.35	320.25	
13	320.37	320.58	320.52	320.93	321.53	321.32	321.09	320.73	320.67	320.42	320.33	320.23	
14	320.47	320.59	320.52	320.88	322.27	321.47	320.93	320.70	320.66	320.42	320.33	320.22	
15	320.51	320.72	320.45	320.97	322.19	321.15	320.85	320.65	320.64	320.41	320.33	320.22	
16	320.44	321.04	320.57	320.86	321.52	320.97	320.80	320.67	320.63	320.40	320.31	320.21	
17	320.40	321.13	320.69	320.98	321.16	320.86	320.75	320.64	320.63	320.43	320.30	320.20	
18	320.40	320.93	320.79	320.77	321.21	320.81	320.76	320.65	320.62	320.42	320.33	320.21	
19	320.40	320.73	320.60	320.69	321.13	320.97	320.75	320.69	320.63	320.41	320.32	320.21	
20	320.38	320.62	320.73	320.64	321.52	321.28	320.72	320.70	320.61	320.40	320.32	320.19	
21	320.36	320.55	320.70	320.63	321.28	321.15	320.69	320.75	320.60	320.44	320.32	320.17	
22	320.37	320.53	320.60	320.69	321.02	321.00	320.72	320.74	320.60	320.42	320.30	320.19	
23	320.42	320.48	320.53	320.98	320.85	321.58	320.70	320.72	320.58	320.42	320.29	320.19	
24	320.41	320.47	320.50	320.95	320.78	321.49	320.70	320.70	320.54	320.42	320.28	320.18	
25	320.41	320.45	320.48	320.86	320.72	321.29	320.76	320.71	320.54	320.42	320.29	320.19	
26	320.38	320.42	320.48	320.81	320.78	321.16	320.73	320.70	320.51	320.43	320.30	320.21	
27	320.46	320.46	320.48	320.74	320.74	321.17	320.72	320.69	320.52	320.41	320.30	320.20	
28	320.45	320.54	320.49	320.73	320.73	320.96	320.71	320.69	320.48	320.39	320.29	320.21	
29	320.40	320.52	320.77	320.83	320.84	320.90	320.71	320.69	320.49	320.40		320.19	
30	320.38	320.48	320.80	321.42	321.17	320.87	320.68	320.69	320.48	320.38		320.19	
31		320.45		321.69	321.54		320.68		320.48	320.38		320.19	
MEAN	320.38	320.53	320.61	321.04	321.16	321.16	320.92	320.70	320.61	320.43	320.33	320.23	
MAX	320.51	321.13	320.80	322.18	322.27	321.84	321.61	321.00	320.73	320.50	320.38	320.31	322.27
MIN	320.31	320.31	320.45	320.63	320.72	320.81	320.68	320.64	320.48	320.38	320.28	320.17	320.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 322.31 M (MSL), AT 1.00 HOURS, ON AUG 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 319.69 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 515 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.95	1.10	1.72	3.20	18.12	20.54	5.52	3.60	3.70	1.93	1.10	0.76	
2	0.95	1.10	3.00	11.18	12.26	24.42	6.75	3.40	3.60	2.00	1.15	0.80	
3	1.00	0.90	2.56	31.10	13.80	13.00	11.54	3.40	3.50	1.86	1.10	0.85	
4	0.90	0.85	3.40	32.60	13.40	10.66	19.22	3.40	3.50	1.79	1.20	0.80	
5	0.90	0.90	2.72	16.40	9.98	7.20	11.72	3.30	3.40	1.72	1.20	0.76	
6	0.90	0.90	3.00	7.05	6.45	6.17	12.26	3.30	3.30	1.51	1.05	0.80	
7	0.85	1.10	4.04	4.28	4.88	5.13	7.50	3.40	3.30	1.65	1.00	0.72	
8	0.90	1.25	4.04	7.80	5.26	5.13	6.90	3.70	3.30	1.65	1.10	0.72	
9	0.90	1.51	3.92	9.81	6.45	5.65	6.75	3.80	3.20	1.51	1.10	0.72	
10	0.85	1.72	4.52	8.40	6.60	12.08	14.80	7.80	3.20	1.51	1.10	0.64	
11	0.95	3.40	3.20	14.00	5.65	14.20	17.68	5.78	4.16	1.44	1.00	0.64	
12	1.00	2.72	2.48	11.54	10.32	15.20	10.83	4.76	3.92	1.30	1.05	0.60	
13	1.15	2.64	2.16	6.75	17.46	13.20	9.15	4.16	3.50	1.44	0.95	0.52	
14	1.79	2.72	2.16	6.04	34.85	16.20	6.75	3.80	3.40	1.44	0.95	0.48	
15	2.08	4.04	1.65	7.35	32.85	10.15	5.65	3.30	3.20	1.37	0.95	0.48	
16	1.58	8.40	2.56	5.78	17.24	7.35	5.00	3.50	3.10	1.30	0.85	0.44	
17	1.30	9.81	3.70	7.50	10.32	5.78	4.40	3.20	3.10	1.51	0.80	0.40	
18	1.30	6.75	4.88	4.64	11.18	5.13	4.52	3.30	3.00	1.44	0.95	0.44	
19	1.30	4.16	2.80	3.70	9.81	7.35	4.40	3.70	3.10	1.37	0.90	0.44	
20	1.20	3.00	4.16	3.20	17.24	12.44	4.04	3.80	2.90	1.30	0.90	0.37	
21	1.10	2.40	3.80	3.10	12.44	10.15	3.70	4.40	2.80	1.58	0.90	0.31	
22	1.15	2.24	2.80	3.70	8.10	7.80	4.04	4.28	2.80	1.44	0.80	0.37	
23	1.44	1.86	2.24	7.50	5.65	18.56	3.80	4.04	2.64	1.44	0.76	0.37	
24	1.37	1.79	2.00	7.05	4.76	16.60	3.80	3.80	2.32	1.44	0.72	0.34	
25	1.37	1.65	1.86	5.78	4.04	12.62	4.52	3.92	2.32	1.44	0.76	0.37	
26	1.20	1.44	1.86	5.13	4.76	10.32	4.16	3.80	2.08	1.51	0.80	0.44	
27	1.72	1.72	1.86	4.28	4.28	10.49	4.04	3.70	2.16	1.37	0.80	0.40	
28	1.65	2.32	1.93	4.16	4.16	7.20	3.92	3.70	1.86	1.25	0.76	0.44	
29	1.30	2.16	4.64	5.39	5.52	6.30	3.92	3.70	1.93	1.30		0.37	
30	1.20	1.86	5.00	15.20	10.49	5.91	3.60	3.70	1.86	1.20		0.37	
31		1.65		20.98	17.68		3.60		1.86	1.20		0.37	
TOTAL	36.25	80.06	90.66	284.59	346.00	322.93	218.48	117.44	92.01	46.21	26.70	16.53	1677.86 CMSDAY
MEAN	1.21	2.58	3.02	9.18	11.16	10.76	7.05	3.91	2.97	1.49	0.95	0.53	4.60 CMS
MAX	2.08	9.81	5.00	32.60	34.85	24.42	19.22	7.80	4.16	2.00	1.20	0.85	34.85 CMS
MIN	0.85	0.85	1.65	3.10	4.04	5.13	3.60	3.20	1.86	1.20	0.72	0.31	0.31 CMS
RUNOFF	3.132	6.917	7.833	24.589	29.894	27.901	18.877	10.147	7.950	3.993	2.307	1.428	144.967 MCM

MOMENTARY PEAK 35.87 CMS, AT 322.31 M (MSL), AT 1.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 8.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 69.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

MAE KHAN RIVER 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.S.

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 23 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

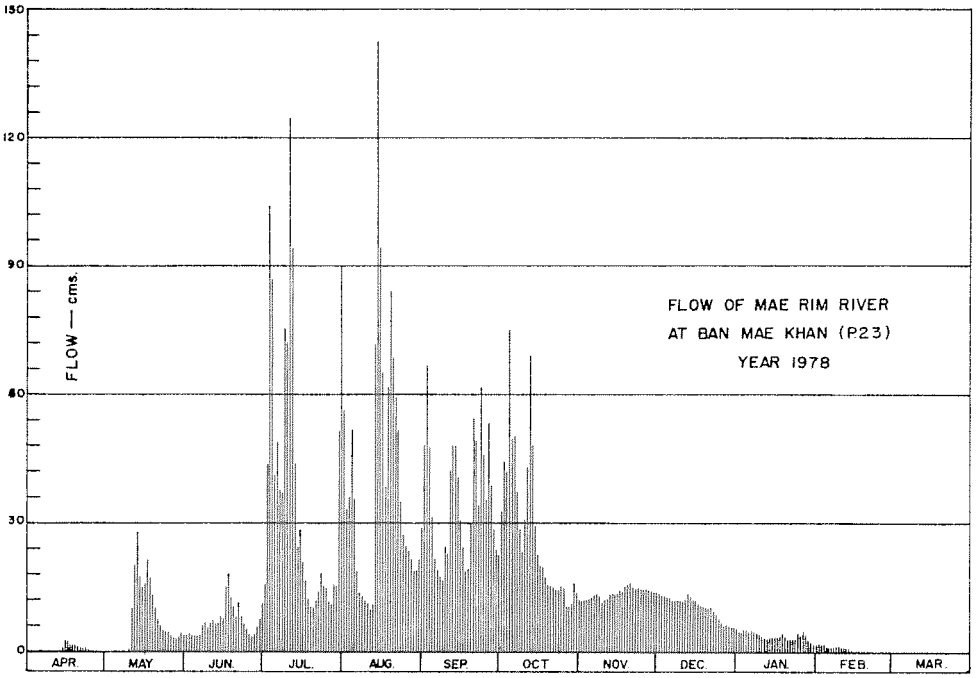
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	286.61	286.61	287.02	287.31	287.98	287.93	287.68	287.31	287.35	287.07	286.88	286.66	
2	286.61	286.61	287.03	287.47	287.71	288.20	287.91	287.30	287.34	287.06	286.88	286.67	
3	286.61	286.61	286.99	288.59	287.76	287.95	287.86	287.31	287.33	287.08	286.86	286.67	
4	286.61	286.60	287.01	288.53	288.01	287.72	288.28	287.31	287.32	287.09	286.83	286.67	
5	286.60	286.59	287.01	287.86	287.75	287.58	287.98	287.32	287.32	287.05	286.80	286.67	
6	286.59	286.58	287.00	287.97	287.48	287.48	287.99	287.33	287.30	287.07	286.79	286.67	
7	286.59	286.59	287.07	287.81	287.36	287.44	287.81	287.34	287.30	287.06	286.80	286.67	
8	286.59	286.60	287.13	287.80	287.32	287.42	287.64	287.33	287.30	287.05	286.81	286.66	
9	286.60	286.62	287.09	288.28	287.30	287.58	287.57	287.27	287.30	287.05	286.80	286.66	
10	286.61	286.67	287.13	288.21	287.29	287.52	287.69	287.31	287.30	287.04	286.80	286.66	
11	286.61	287.14	287.15	288.78	287.26	287.87	287.86	287.30	287.29	286.98	286.79	286.66	
12	286.61	287.44	287.12	288.62	287.26	287.96	288.23	287.34	287.34	286.97	286.79	286.64	
13	286.62	287.65	287.12	287.87	288.19	287.96	288.02	287.34	287.31	287.00	286.76	286.63	
14	286.73	287.47	287.18	287.58	288.93	287.92	287.67	287.34	287.30	286.99	286.72	286.63	
15	286.85	287.35	287.17	287.66	288.53	287.71	287.56	287.34	287.29	286.99	286.72	286.62	
16	286.92	287.39	287.27	287.53	288.02	287.60	287.50	287.36	287.28	287.00	286.72	286.62	
17	286.86	287.52	287.46	287.43	287.81	287.53	287.49	287.34	287.27	287.02	286.72	286.62	
18	286.84	287.47	287.30	287.33	288.07	287.45	287.42	287.39	287.26	287.05	286.72	286.62	
19	286.83	287.35	287.24	287.25	288.39	287.66	287.41	287.40	287.25	287.02	286.72	286.62	
20	286.82	287.26	287.19	287.20	288.26	288.04	287.40	287.41	287.25	286.99	286.72	286.61	
21	286.81	287.20	287.28	287.27	288.11	287.88	287.38	287.39	287.25	286.98	286.72	286.61	
22	286.77	287.12	287.22	287.32	287.98	287.75	287.36	287.36	287.23	286.97	286.70	286.61	
23	286.77	287.07	287.15	287.46	287.71	288.13	287.36	287.38	287.22	286.99	286.69	286.61	
24	286.72	287.05	287.10	287.40	287.64	287.93	287.40	287.37	287.20	287.05	286.68	286.61	
25	286.72	287.05	287.04	287.39	287.59	287.78	287.38	287.37	287.14	287.03	286.67	286.61	
26	286.72	287.00	287.01	287.35	287.57	288.03	287.35	287.37	287.12	287.08	286.66	286.61	
27	286.68	286.98	287.02	287.25	287.55	287.87	287.34	287.37	287.12	287.04	286.66	286.61	
28	286.69	286.95	287.06	287.40	287.48	287.70	287.35	287.36	287.11	286.97	286.66	286.61	
29	286.69	286.99	287.14	287.38	287.45	287.58	287.41	287.36	287.11	286.94		286.61	
30	286.69	287.03	287.22	287.82	287.51	287.54	287.36	287.36	287.11	286.90		286.59	
31		287.00		288.45	287.61		287.31		287.08	286.88		286.58	
MEAN	286.70	287.02	287.13	287.73	287.77	287.76	287.61	287.35	287.25	287.01	286.75	286.63	
MAX	286.92	287.65	287.46	288.78	288.93	288.20	288.28	287.41	287.35	287.09	286.88	286.67	288.93
MIN	286.59	286.58	286.99	287.20	287.26	287.42	287.31	287.27	287.08	286.68	286.66	286.58	286.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 289.09 M (MSL), AT 6.00 HOURS, ON AUG 14, 1978

ZERO GAGE AT BOTTOM ELEVATION 285.62 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 1777 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	3.90	12.35	49.50	45.75	29.40	12.35	13.75	4.90	1.80	0.00	
2	0.00	0.00	4.10	18.65	31.15	67.00	44.25	12.00	13.40	4.70	1.80	0.00	
3	0.00	0.00	3.35	103.95	34.40	47.25	40.90	12.35	13.05	5.10	1.60	0.00	
4	0.00	0.00	3.70	97.65	51.80	31.80	74.20	12.35	12.70	5.30	1.30	0.00	
5	0.00	0.00	3.70	40.90	33.75	24.00	49.50	12.70	12.70	4.50	1.00	0.00	
6	0.00	0.00	3.50	48.75	19.10	19.10	50.25	13.05	12.00	4.90	0.90	0.00	
7	0.00	0.00	4.90	37.65	14.10	17.30	37.65	13.40	12.00	4.70	1.00	0.00	
8	0.00	0.00	6.40	37.00	12.70	16.40	27.20	13.05	12.00	4.50	1.10	0.00	
9	0.00	0.00	5.30	74.20	12.00	24.00	23.50	10.95	12.00	4.50	1.00	0.00	
10	0.00	0.00	6.40	67.90	11.65	21.00	29.95	12.35	12.00	4.30	1.00	0.00	
11	0.00	6.70	7.00	124.30	10.60	41.55	40.90	12.00	11.65	3.20	0.90	0.00	
12	0.00	17.30	6.10	107.10	10.60	48.00	69.70	13.40	13.40	3.05	0.90	0.00	
13	0.00	27.75	6.10	41.55	66.20	48.00	52.60	13.40	12.35	3.50	0.60	0.00	
14	0.30	18.65	7.90	24.00	141.75	45.00	28.85	13.40	12.00	3.35	0.20	0.00	
15	1.50	13.75	7.60	28.30	97.65	31.15	23.00	13.40	11.65	3.35	0.20	0.00	
16	2.30	15.15	10.95	21.50	52.60	25.00	20.00	14.10	11.30	3.50	0.20	0.00	
17	1.60	21.00	18.20	16.85	37.65	21.50	19.55	13.40	10.95	3.90	0.20	0.00	
18	1.40	18.65	12.00	13.05	56.60	17.75	16.40	15.15	10.60	4.50	0.20	0.00	
19	1.30	13.75	9.90	10.25	84.10	28.30	15.95	15.50	10.25	3.90	0.20	0.00	
20	1.20	10.60	8.20	8.50	72.40	54.20	15.50	15.95	10.25	3.35	0.20	0.00	
21	1.10	8.50	11.30	10.95	59.80	42.20	14.80	15.15	10.25	3.20	0.20	0.00	
22	0.70	6.10	9.20	12.70	49.50	33.75	14.10	14.10	9.55	3.05	0.00	0.00	
23	0.70	4.90	7.00	18.20	31.15	61.40	14.10	14.80	9.20	3.35	0.00	0.00	
24	0.20	4.50	5.50	15.50	27.20	45.75	15.50	14.45	8.50	4.50	0.00	0.00	
25	0.20	4.50	4.30	15.15	24.50	35.70	14.80	14.45	6.70	4.10	0.00	0.00	
26	0.20	3.50	3.70	13.75	23.50	53.40	13.75	14.45	6.10	5.10	0.00	0.00	
27	0.00	3.20	3.90	10.25	22.50	41.55	13.40	14.45	6.10	4.30	0.00	0.00	
28	0.00	2.75	4.70	15.50	19.10	30.50	13.75	14.10	5.80	3.05	0.00	0.00	
29	0.00	3.35	6.70	14.80	17.75	24.00	15.95	14.10	5.80	2.60		0.00	
30	0.00	4.10	9.20	38.30	20.50	22.00	14.10	14.10	5.80	2.00		0.00	
31		3.50		89.75	25.55		12.35		5.10	1.80		0.00	
TOTAL	12.70	212.20	204.70	1189.25	1221.35	1064.30	865.85	408.40	318.90	120.05	16.50	0.00	5634.19 CMSDAY
MEAN	0.42	6.85	6.82	38.36	39.40	35.48	27.93	13.61	10.29	3.87	0.59	0.00	15.44 CMS
MAX	2.30	27.75	18.20	124.30	141.75	67.00	74.20	15.95	13.75	5.30	1.80	0.00	141.75 CMS
MIN	0.00	0.00	3.35	8.50	10.60	16.40	12.35	10.95	5.10	1.80	0.00	0.00	0.00 CMS
RUNOFF	1.097	18.334	17.686	102.751	105.525	91.955	74.809	35.286	27.553	10.372	1.426	0.000	486.794 MCM

MOMENTARY PEAK 161.75 CMS, AT 289.09 M (MSL), AT 6.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 8.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 91.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

MAE KLANG RIVER 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.-M.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

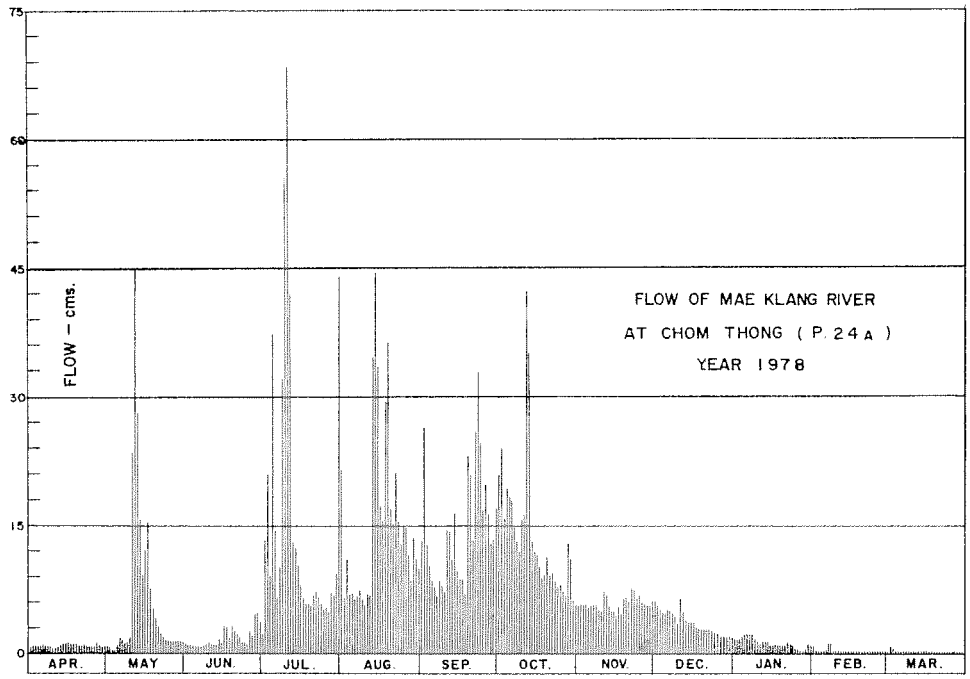
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 75 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	275.47	275.48	275.49	275.60	276.02	276.01	276.30	275.78	275.81	275.54	275.47	275.39	
2	275.48	275.46	275.49	275.99	275.83	276.51	276.43	275.79	275.79	275.53	275.40	275.46	
3	275.48	275.44	275.49	276.33	276.00	276.07	276.16	275.79	275.76	275.53	275.40	275.44	
4	275.48	275.44	275.49	275.94	275.84	276.00	276.27	275.79	275.74	275.57	275.39	275.40	
5	275.48	275.48	275.48	276.83	275.86	275.92	276.25	275.77	275.74	275.58	275.39	275.39	
6	275.49	275.55	275.48	275.97	275.81	275.90	276.23	275.75	275.76	275.59	275.40	275.37	
7	275.48	275.54	275.48	275.83	275.83	275.84	276.12	275.78	275.75	275.59	275.41	275.37	
8	275.47	275.50	275.48	275.97	275.87	275.91	276.06	275.78	275.73	275.59	275.41	275.36	
9	275.46	275.52	275.49	276.42	275.83	275.90	276.03	275.76	275.71	275.54	275.39	275.36	
10	275.45	275.56	275.51	277.22	275.79	275.85	276.15	275.75	275.67	275.52	275.40	275.35	
11	275.45	276.41	275.49	277.61	275.85	276.11	276.18	275.86	275.82	275.49	275.39	275.34	
12	275.47	277.02	275.49	276.38	275.84	276.10	276.96	275.84	275.72	275.51	275.39	275.35	
13	275.48	276.38	275.49	276.07	276.56	276.00	276.46	275.78	275.69	275.51	275.38	275.34	
14	275.50	276.15	275.55	276.04	277.01	276.18	276.17	275.75	275.67	275.51	275.37	275.35	
15	275.50	275.94	275.50	275.97	276.64	275.95	276.04	275.75	275.67	275.48	275.38	275.35	
16	275.50	276.04	275.66	275.90	276.23	275.92	276.01	275.72	275.68	275.48	275.40	275.35	
17	275.50	276.14	275.65	275.83	276.15	275.92	275.97	275.77	275.64	275.49	275.40	275.35	
18	275.50	275.89	275.57	275.79	276.61	275.85	275.93	275.74	275.63	275.48	275.40	275.34	
19	275.50	275.78	275.65	275.79	276.81	276.40	275.95	275.82	275.62	275.48	275.38	275.35	
20	275.49	275.71	275.62	275.78	276.24	276.33	276.01	275.83	275.62	275.48	275.38	275.35	
21	275.48	275.65	275.59	275.83	276.14	276.08	275.94	275.81	275.62	275.48	275.37	275.36	
22	275.49	275.59	275.58	275.86	276.34	276.41	275.95	275.88	275.62	275.50	275.37	275.35	
23	275.48	275.56	275.52	275.81	276.18	276.72	275.91	275.87	275.62	275.49	275.39	275.35	
24	275.47	275.54	275.52	275.78	276.06	276.46	275.89	275.82	275.60	275.47	275.39	275.35	
25	275.47	275.53	275.49	275.76	276.13	276.19	275.90	275.84	275.60	275.45	275.37	275.35	
26	275.47	275.53	275.61	275.77	276.12	276.29	275.86	275.80	275.58	275.44	275.38	275.34	
27	275.50	275.53	275.58	275.75	275.99	276.18	275.83	275.79	275.57	275.42	275.38	275.33	
28	275.49	275.53	275.73	275.85	275.92	276.06	276.06	275.78	275.57	275.42	275.39	275.33	
29	275.48	275.53	275.74	275.84	276.08	276.08	275.99	275.78	275.57	275.44		275.33	
30	275.48	275.51	275.66	275.94	276.00	276.14	275.82	275.81	275.56	275.49		275.33	
31		275.50		277.00	275.96		275.78		275.55	275.48		275.34	
MEAN	275.48	275.72	275.55	276.08	276.11	276.11	276.08	275.79	275.67	275.50	275.39	275.36	
MAX	275.50	277.02	275.74	277.61	277.01	276.72	276.96	275.88	275.82	275.59	275.47	275.46	277.61
MIN	275.45	275.44	275.48	275.60	275.79	275.84	275.78	275.72	275.55	275.42	275.37	275.33	275.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 278.12 M (MSL), AT 12.00 HOURS, ON JUL 11, 1978
ZERO GAGE AT BOTTOM ELEVATION 274.69 M (MSL), RIVER BED 274.41 M (MSL)
LEFT BANK ELEVATION 280.03 M (MSL)
RIGHT BANK ELEVATION 297.78 M (MSL), DRAINAGE AREA 460 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	0.96	1.08	2.40	11.60	11.30	20.00	5.60	6.20	1.68	0.84	0.00	
2	0.96	0.72	1.08	10.70	6.60	26.30	23.90	5.80	5.80	1.56	0.00	0.72	
3	0.96	0.48	1.08	20.90	11.00	13.10	15.80	5.80	5.20	1.56	0.00	0.48	
4	0.96	0.48	1.08	9.20	6.80	11.00	19.10	5.80	4.80	2.04	0.00	0.00	
5	0.96	0.96	0.96	37.20	7.20	8.60	18.50	5.40	4.80	2.16	0.00	0.00	
6	1.08	1.80	0.96	10.10	6.20	8.00	17.90	5.00	5.20	2.28	0.00	0.00	
7	0.96	1.68	0.96	6.60	6.60	6.80	14.60	5.60	5.00	2.28	0.12	0.00	
8	0.84	1.20	0.96	10.10	7.40	8.30	12.80	5.60	4.60	2.28	0.12	0.00	
9	0.72	1.44	1.08	23.60	6.60	8.00	11.90	5.20	4.20	1.68	0.00	0.00	
10	0.60	1.92	1.32	52.80	5.80	7.00	15.50	5.00	3.52	1.44	0.00	0.00	
11	0.60	23.30	1.08	68.40	7.00	14.30	16.40	7.20	6.40	1.08	0.00	0.00	
12	0.84	44.80	1.08	22.40	6.80	14.00	42.40	6.80	4.40	1.32	0.00	0.00	
13	0.96	22.40	1.08	15.10	27.80	11.00	24.80	5.60	3.84	1.32	0.00	0.00	
14	1.20	15.50	1.80	12.20	44.40	16.40	16.10	5.00	3.52	1.32	0.00	0.00	
15	1.20	9.20	1.20	10.10	30.20	9.50	12.20	5.00	3.52	0.96	0.00	0.00	
16	1.20	12.20	3.36	8.00	17.90	8.60	11.30	4.40	3.68	0.96	0.00	0.00	
17	1.20	15.20	3.20	6.60	15.50	8.60	10.10	5.40	3.04	1.08	0.00	0.00	
18	1.20	7.80	2.04	5.80	29.30	7.00	8.90	4.80	2.88	0.96	0.00	0.00	
19	1.20	5.60	3.20	5.80	36.40	23.00	9.50	6.40	2.72	0.96	0.00	0.00	
20	1.08	4.20	2.72	5.60	18.20	20.90	11.30	6.60	2.72	0.96	0.00	0.00	
21	0.96	3.20	2.28	6.60	15.20	13.40	9.20	6.20	2.72	0.96	0.00	0.00	
22	1.08	2.28	2.16	7.20	21.20	23.30	9.50	7.60	2.72	1.20	0.00	0.00	
23	0.96	1.92	1.44	6.20	16.40	32.80	8.30	7.40	2.72	1.08	0.00	0.00	
24	0.84	1.68	1.44	5.60	12.80	24.80	7.80	6.40	2.40	0.84	0.00	0.00	
25	0.84	1.56	1.08	5.20	14.90	16.70	8.00	6.80	2.40	0.60	0.00	0.00	
26	0.84	1.56	2.56	5.40	14.60	19.70	7.20	6.00	2.16	0.48	0.00	0.00	
27	1.20	1.56	2.16	5.00	10.70	16.40	6.60	5.80	2.04	0.24	0.00	0.00	
28	1.08	1.56	4.60	7.00	8.60	12.80	12.80	5.60	2.04	0.24	0.00	0.00	
29	0.96	1.56	4.80	6.80	13.40	13.40	10.70	5.60	2.04	0.48		0.00	
30	0.96	1.32	3.36	9.20	11.00	15.20	6.40	6.20	1.92	1.08		0.00	
31		1.20		44.00	9.80		5.60		1.80	0.96		0.00	
TOTAL	29.28	191.24	57.20	449.80	457.90	430.20	425.10	175.60	111.00	38.04	1.08	1.20	2367.64 CMSDAY
MEAN	0.98	6.17	1.91	14.51	14.77	14.34	13.71	5.85	3.58	1.23	0.04	0.04	6.49 CMS
MAX	1.20	44.80	4.80	68.40	44.40	32.80	42.40	7.60	6.40	2.28	0.84	0.72	68.40 CMS
MIN	0.60	0.48	0.96	2.40	5.80	6.80	5.60	4.40	1.80	0.24	0.00	0.00	0.00 CMS
RUNOFF	2.530	16.523	4.942	38.863	39.563	37.169	36.729	15.172	9.590	3.287	0.093	0.104	204.564 MCM

MOMENTARY PEAK 92.00 CMS, AT 278.12 M (MSL), AT 12.00 HOURS, ON JUL 11, 1978

RUNOFF YIELD 14.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 200.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

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.S.

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 — 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 1978.

REMARKS — NO RECORDS ON MAY 13-18 AND JUL 6-8, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

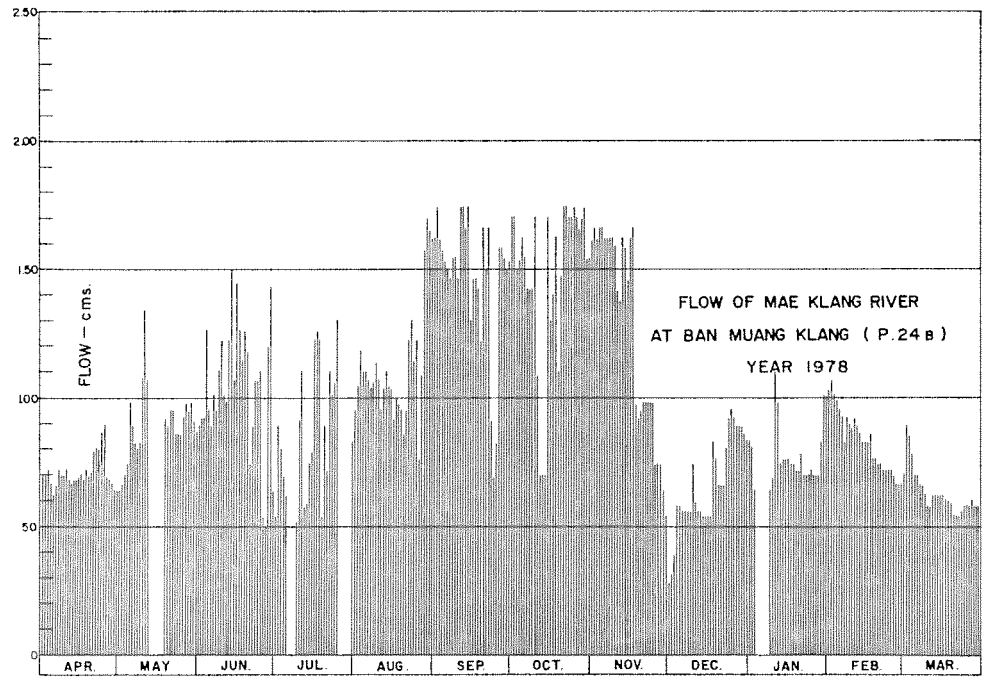
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.42	0.53	0.37	0.56	0.73	0.75	0.73	0.24	0.51	0.58	0.45	
2	0.45	0.43	0.54	0.53	0.58	0.76	0.75	0.74	0.27	0.50	0.59	0.53	
3	0.46	0.45	0.54	0.50	0.62	0.73	0.70	0.73	0.36	0.42	0.57	0.51	
4	0.44	0.47	0.64	0.44	0.60	0.72	0.71	0.74	0.39	0.13	0.56	0.48	
5	0.41	0.56	0.55	0.41	0.60	0.71	0.73	0.74	0.39	0.13	0.55	0.45	
6	0.43	0.41	0.53	*******	0.59	0.70	0.71	0.73	0.38	0.12	0.54	0.45	
7	0.46	0.51	0.57	*******	0.58	0.69	0.68	0.73	0.38	0.10	0.51	0.43	
8	0.45	0.50	0.55	*******	0.59	0.71	0.68	0.73	0.38	0.15	0.54	0.43	
9	0.45	0.51	0.60	0.36	0.61	0.71	0.70	0.73	0.38	0.42	0.53	0.40	
10	0.46	0.55	0.63	0.54	0.59	0.69	0.75	0.72	0.47	0.45	0.53	0.39	
11	0.45	0.66	0.57	0.60	0.55	0.76	0.53	0.68	0.40	0.60	0.54	0.39	
12	0.43	0.59	0.56	0.39	0.57	0.76	0.45	0.67	0.38	0.56	0.53	0.41	
13	0.44	*******	0.63	0.40	0.60	0.74	0.45	0.73	0.38	0.47	0.52	0.41	
14	0.44	*******	0.70	0.47	0.58	0.76	0.56	0.72	0.38	0.48	0.51	0.41	
15	0.44	*******	0.59	0.50	0.58	0.65	0.75	0.69	0.37	0.48	0.51	0.41	
16	0.45	*******	0.70	0.63	0.54	0.69	0.65	0.73	0.37	0.48	0.51	0.41	
17	0.44	*******	0.65	0.64	0.57	0.69	0.67	0.74	0.37	0.47	0.52	0.40	
18	0.46	*******	0.61	0.63	0.56	0.68	0.73	0.56	0.51	0.47	0.48	0.40	
19	0.45	0.54	0.64	0.37	0.55	0.63	0.60	0.54	0.48	0.46	0.48	0.39	
20	0.46	0.53	0.62	0.53	0.52	0.74	0.70	0.55	0.43	0.46	0.47	0.37	
21	0.49	0.55	0.47	0.46	0.55	0.70	0.76	0.56	0.43	0.49	0.47	0.37	
22	0.50	0.55	0.53	0.60	0.63	0.74	0.76	0.56	0.43	0.45	0.46	0.37	
23	0.50	0.52	0.59	0.57	0.65	0.46	0.75	0.56	0.48	0.45	0.46	0.38	
24	0.52	0.52	0.59	0.60	0.61	0.43	0.75	0.56	0.54	0.45	0.46	0.39	
25	0.45	0.52	0.60	0.65	0.63	0.64	0.76	0.47	0.55	0.46	0.46	0.39	
26	0.53	0.54	0.37	*******	0.48	0.72	0.75	0.47	0.54	0.45	0.45	0.39	
27	0.44	0.56	0.35	*******	0.67	0.72	0.74	0.47	0.53	0.45	0.43	0.40	
28	0.43	0.55	0.61	*******	0.72	0.71	0.75	0.42	0.53	0.45	0.43	0.39	
29	0.42	0.56	0.68	*******	0.75	0.70	0.76	0.37	0.53	0.52		0.39	
30	0.42	0.54	0.42	*******	0.74	0.71	0.71	*******	0.52	0.57		0.39	
31		0.52		0.51	0.73		0.71		0.51	0.57		0.41	
MEAN	0.45	*******	0.57	*******	0.60	0.69	0.69	*******	0.43	0.42	0.51	0.41	
MAX	0.53	0.66	0.70	0.65	0.75	0.76	0.76	0.74	0.55	0.60	0.59	0.53	0.76
MIN	0.41	*******	0.35	*******	0.48	0.43	0.45	*******	0.24	0.10	0.43	0.37	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 0.78 M (A.D), AT 18.00 HOURS, ON SEP 22, 1978

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 — 0.66 M (A.D), DRAINAGE AREA — SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	0.64	0.89	0.54	0.98	1.62	1.70	1.62	0.28	0.83	1.04	0.70	
2	0.70	0.66	0.92	0.89	1.04	1.74	1.70	1.66	0.34	0.80	1.07	0.89	
3	0.72	0.70	0.92	0.80	1.18	1.62	1.50	1.62	0.52	0.64	1.01	0.83	
4	0.68	0.74	1.26	0.68	1.10	1.58	1.54	1.66	0.58	0.06	0.98	0.76	
5	0.62	0.98	0.95	0.62	1.10	1.54	1.62	1.66	0.58	0.06	0.95	0.70	
6	0.66	0.62	0.89	*******	1.07	1.50	1.54	1.62	0.56	0.04	0.92	0.70	
7	0.72	0.83	1.01	*******	1.04	1.46	1.42	1.62	0.56	0.00	0.83	0.66	
8	0.70	0.80	0.95	*******	1.07	1.54	1.42	1.62	0.56	0.10	0.92	0.66	
9	0.70	0.83	1.10	0.52	1.14	1.54	1.50	1.62	0.56	0.64	0.89	0.60	
10	0.72	0.95	1.22	0.92	1.07	1.46	1.70	1.58	0.74	0.70	0.89	0.58	
11	0.70	1.34	1.01	1.10	0.95	1.74	0.89	1.42	0.60	1.10	0.92	0.58	
12	0.66	1.07	0.98	0.58	1.01	1.74	0.70	1.38	0.56	0.98	0.89	0.62	
13	0.68	*******	1.22	0.60	1.10	1.66	0.70	1.62	0.56	0.74	0.86	0.62	
14	0.68	*******	1.50	0.74	1.04	1.74	0.98	1.58	0.56	0.76	0.83	0.62	
15	0.68	*******	1.07	0.80	1.04	1.30	1.70	1.46	0.54	0.76	0.83	0.62	
16	0.70	*******	1.50	1.22	0.92	1.46	1.30	1.62	0.54	0.76	0.83	0.62	
17	0.68	*******	1.30	1.26	1.01	1.46	1.38	1.66	0.54	0.74	0.86	0.60	
18	0.72	*******	1.14	1.22	0.95	1.42	1.62	0.98	0.83	0.74	0.76	0.60	
19	0.70	0.92	1.26	0.54	0.95	1.22	1.10	0.92	0.76	0.72	0.76	0.58	
20	0.72	0.89	1.18	0.89	0.86	1.66	1.50	0.95	0.66	0.72	0.74	0.54	
21	0.78	0.95	0.74	0.72	0.95	1.50	1.74	0.98	0.66	0.78	0.74	0.54	
22	0.80	0.95	0.89	1.10	1.22	1.66	1.74	0.98	0.66	0.70	0.72	0.54	
23	0.80	0.86	1.07	1.01	1.30	0.72	1.70	0.98	0.76	0.70	0.72	0.56	
24	0.86	0.86	1.07	1.10	1.14	0.66	1.70	0.98	0.92	0.70	0.72	0.58	
25	0.70	0.86	1.10	1.30	1.22	1.26	1.74	0.74	0.95	0.72	0.72	0.58	
26	0.86	0.92	0.54	*******	0.76	1.58	1.70	0.74	0.92	0.70	0.70	0.58	
27	0.66	0.98	0.50	*******	1.38	1.58	1.66	0.74	0.89	0.70	0.66	0.60	
28	0.66	0.95	1.14	*******	1.58	1.54	1.70	0.64	0.89	0.70	0.66	0.58	
29	0.64	0.98	1.42	*******	1.70	1.50	1.74	0.54	0.89	0.86		0.58	
30	0.64	0.92	0.64	*******	1.66	1.54	1.54	*******	0.86	1.01		0.58	
31		0.86		0.83	1.62		1.54		0.83	1.01		0.62	
TOTAL	21.29	*******	31.38	*******	35.18	44.54	46.01	*******	20.66	20.47	23.42	19.42	******** CMSDAY
MEAN	0.71	*******	1.05	*******	1.13	1.48	1.48	*******	0.67	0.66	0.84	0.63	******* CMS
MAX	0.89	1.34	1.50	1.30	1.70	1.74	1.74	1.66	0.95	1.10	1.07	0.89	1.74 CMS
MIN	0.62	*******	0.50	*******	0.76	0.66	0.70	*******	0.28	0.00	0.66	0.54	******* CMS
RUNOFF	1.839	*******	2.711	*******	3.040	3.848	3.975	*******	1.785	1.769	2.023	1.678	******** MCM

MOMENTARY PEAK 1.32 CMS, AT 0.78 M (A.D), AT 18.00 HOURS, ON SEP 22, 1978

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

WATER YEAR 1978

PING RIVER BASIN

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

LOCATION — LAT. 18°28'03" N., LONG. 98°39'41" 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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

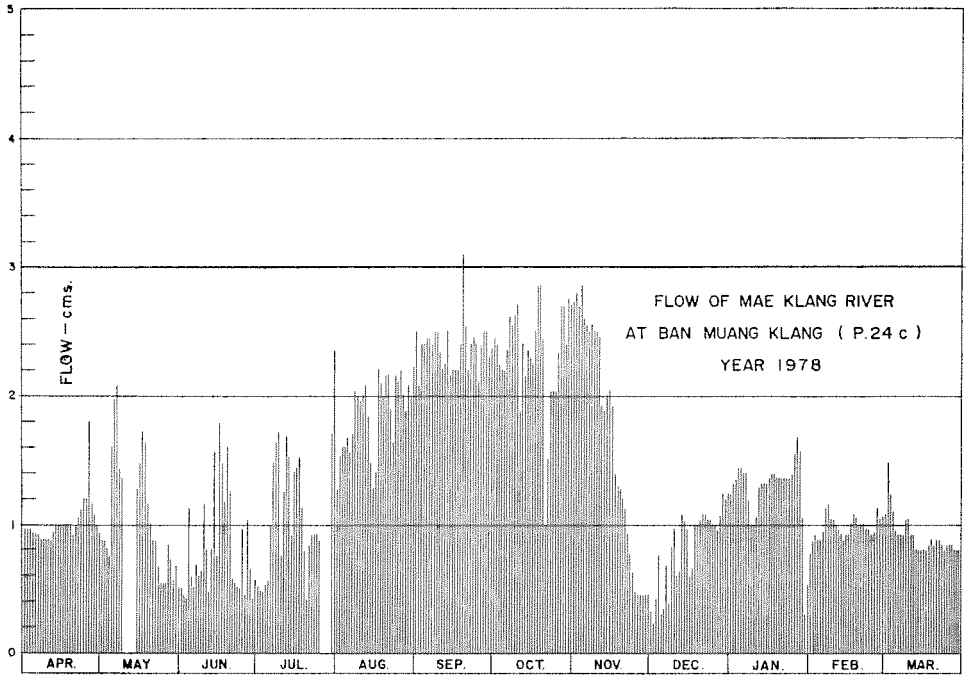
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 65 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — NO RECORDS ON MAY 10-14, JUL 26-29, 1978 AND JAN 31, 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	0.27	0.17	0.17	0.37	0.66	0.65	0.71	0.10	0.36	0.23	0.32	
2	0.29	0.27	0.15	0.16	0.43	0.57	0.64	0.72	0.08	0.38	0.27	0.42	
3	0.29	0.25	0.14	0.16	0.45	0.64	0.61	0.70	0.13	0.39	0.28	0.37	
4	0.28	0.24	0.33	0.18	0.45	0.64	0.60	0.73	0.24	0.41	0.27	0.33	
5	0.28	0.45	0.20	0.19	0.47	0.65	0.60	0.68	0.10	0.41	0.27	0.29	
6	0.28	0.54	0.17	0.32	0.44	0.65	0.63	0.67	0.12	0.40	0.29	0.28	
7	0.27	0.57	0.22	0.43	0.48	0.64	0.68	0.66	0.22	0.40	0.33	0.28	
8	0.27	0.41	0.20	0.46	0.56	0.66	0.67	0.67	0.13	0.35	0.34	0.28	
9	0.27	0.39	0.21	0.48	0.55	0.66	0.68	0.66	0.25	0.30	0.31	0.31	
10	0.27	*******	0.34	0.24	0.54	0.64	0.70	0.66	0.29	0.30	0.31	0.31	
11	0.27	*******	0.21	0.36	0.55	0.60	0.52	0.65	0.20	0.32	0.30	0.28	
12	0.29	*******	0.16	0.47	0.57	0.61	0.64	0.53	0.21	0.37	0.29	0.28	
13	0.30	*******	0.25	0.43	0.51	0.66	0.59	0.52	0.32	0.38	0.28	0.25	
14	0.30	*******	0.44	0.28	0.42	0.59	0.63	0.55	0.31	0.38	0.27	0.25	
15	0.30	0.37	0.24	0.40	0.37	0.60	0.62	0.56	0.29	0.38	0.28	0.25	
16	0.30	0.41	0.50	0.41	0.40	0.60	0.61	0.53	0.20	0.39	0.28	0.25	
17	0.30	0.48	0.44	0.43	0.60	0.60	0.66	0.40	0.22	0.40	0.30	0.25	
18	0.30	0.46	0.34	0.33	0.57	0.64	0.73	0.38	0.30	0.40	0.32	0.26	
19	0.30	0.34	0.45	0.24	0.55	0.78	0.73	0.37	0.30	0.39	0.31	0.27	
20	0.28	0.29	0.36	0.14	0.59	0.68	0.65	0.35	0.31	0.39	0.30	0.26	
21	0.30	0.27	0.19	0.26	0.59	0.60	0.30	0.33	0.32	0.39	0.30	0.27	
22	0.32	0.27	0.18	0.28	0.59	0.64	0.42	0.28	0.32	0.39	0.30	0.27	
23	0.33	0.22	0.17	0.28	0.46	0.65	0.56	0.23	0.31	0.39	0.29	0.26	
24	0.35	0.18	0.17	0.28	0.59	0.64	0.56	0.20	0.31	0.39	0.29	0.25	
25	0.35	0.18	0.29	0.27	0.58	0.58	0.56	0.16	0.30	0.40	0.28	0.26	
26	0.50	0.18	0.15	*******	0.60	0.64	0.62	0.15	0.30	0.44	0.29	0.26	
27	0.35	0.26	0.31	*******	0.54	0.66	0.70	0.15	0.29	0.47	0.33	0.26	
28	0.32	0.12	0.22	*******	0.52	0.66	0.70	0.15	0.33	0.44	0.31	0.25	
29	0.30	0.19	0.14	*******	0.57	0.62	0.64	0.15	0.36	0.31		0.25	
30	0.29	0.21	0.19	0.48	0.55	0.63	0.71	0.15	0.35	0.10		0.25	
31		0.17		0.63	0.60		0.70		0.36	*******		0.24	
MEAN	0.30	*******	0.25	*******	0.52	0.64	0.62	0.45	0.25	*******	0.29	0.28	
MAX	0.50	0.57	0.50	0.63	0.60	0.78	0.73	0.73	0.36	0.47	0.34	0.42	0.78
MIN	0.27	*******	0.14	*******	0.37	0.57	0.30	0.15	0.08	*******	0.23	0.24	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 0.83 M (A.D), AT 6.00 HOURS, ON SEP 19, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 1.70 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	0.88	0.51	0.51	1.28	2.50	2.45	2.75	0.30	1.24	0.72	1.08	
2	0.96	0.88	0.45	0.48	1.52	2.08	2.40	2.80	0.24	1.32	0.88	1.48	
3	0.96	0.80	0.42	0.48	1.60	2.40	2.25	2.70	0.39	1.36	0.92	1.28	
4	0.92	0.76	1.12	0.54	1.60	2.40	2.20	2.85	0.76	1.44	0.88	1.12	
5	0.92	1.60	0.60	0.57	1.68	2.45	2.20	2.60	0.30	1.44	0.88	0.96	
6	0.92	1.96	0.51	1.08	1.56	2.45	2.35	2.55	0.36	1.40	0.96	0.92	
7	0.88	2.08	0.68	1.52	1.72	2.40	2.60	2.50	0.68	1.40	1.12	0.92	
8	0.88	1.44	0.60	1.64	2.04	2.50	2.55	2.55	0.39	1.20	1.16	0.92	
9	0.88	1.36	0.64	1.72	2.00	2.50	2.60	2.50	0.80	1.00	1.04	1.04	
10	0.88	*******	1.16	0.76	1.96	2.40	2.70	2.50	0.96	1.00	1.04	1.04	
11	0.88	*******	0.64	1.24	2.00	2.20	1.88	2.45	0.60	1.08	1.00	0.92	
12	0.96	*******	0.48	1.68	2.08	2.25	2.40	1.92	0.64	1.28	0.96	0.92	
13	1.00	*******	0.80	1.52	1.84	2.50	2.16	1.88	1.08	1.32	0.92	0.80	
14	1.00	*******	1.56	0.92	1.48	2.16	2.35	2.00	1.04	1.32	0.88	0.80	
15	1.00	1.28	0.76	1.40	1.28	2.20	2.30	2.04	0.96	1.32	0.92	0.80	
16	1.00	1.44	1.80	1.44	1.40	2.20	2.25	1.92	0.60	1.36	0.92	0.80	
17	1.00	1.72	1.56	1.52	2.20	2.20	2.50	1.40	0.68	1.40	1.00	0.80	
18	1.00	1.64	1.16	1.12	2.08	2.40	2.85	1.32	1.00	1.40	1.08	0.84	
19	1.00	1.16	1.60	0.76	2.00	3.10	2.85	1.28	1.00	1.36	1.04	0.88	
20	0.92	0.96	1.24	0.42	2.16	2.60	2.45	1.20	1.04	1.36	1.00	0.84	
21	1.00	0.88	0.57	0.84	2.16	2.20	1.00	1.12	1.08	1.36	1.00	0.88	
22	1.08	0.88	0.54	0.92	1.80	2.40	1.48	0.92	1.08	1.36	1.00	0.88	
23	1.12	0.68	0.51	0.92	1.64	2.45	2.04	0.72	1.04	1.36	0.96	0.84	
24	1.20	0.54	0.51	0.92	2.16	2.40	2.04	0.60	1.04	1.36	0.96	0.80	
25	1.20	0.54	0.96	0.88	2.12	2.12	2.04	0.48	1.00	1.40	0.92	0.84	
26	1.80	0.54	0.45	*******	2.20	2.40	2.30	0.45	1.00	1.56	0.96	0.84	
27	1.20	0.84	1.04	*******	1.96	2.50	2.70	0.45	0.96	1.68	1.12	0.84	
28	1.08	0.36	0.68	*******	1.88	2.50	2.70	0.45	1.12	1.56	1.04	0.80	
29	1.00	0.57	0.42	*******	2.08	2.30	2.40	0.45	1.24	1.04		0.80	
30	0.96	0.64	0.57	1.72	2.00	2.35	2.75	0.45	1.20	0.30		0.80	
31		0.51		2.35	2.20		2.70		1.24	*******		0.76	
TOTAL	30.56	*******	24.54	*******	57.68	71.51	72.44	49.80	25.82	*******	27.28	28.24	******** CMSDAY
MEAN	1.02	*******	0.82	*******	1.86	2.38	2.34	1.66	0.83	*******	0.97	0.91	******* CMS
MAX	1.80	2.08	1.80	2.35	2.20	3.10	2.85	2.85	1.24	1.68	1.16	1.48	3.10 CMS
MIN	0.88	*******	0.42	*******	1.28	2.08	1.00	0.45	0.24	*******	0.72	0.76	******* CMS
RUNOFF	2.640	*******	2.120	*******	4.984	6.178	6.259	4.303	2.231	*******	2.357	2.440	******** MCM

MOMENTARY PEAK 3.35 CMS, AT 0.83 M (A.D), AT 6.00 HOURS, ON SEP 19, 1978

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 3390.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

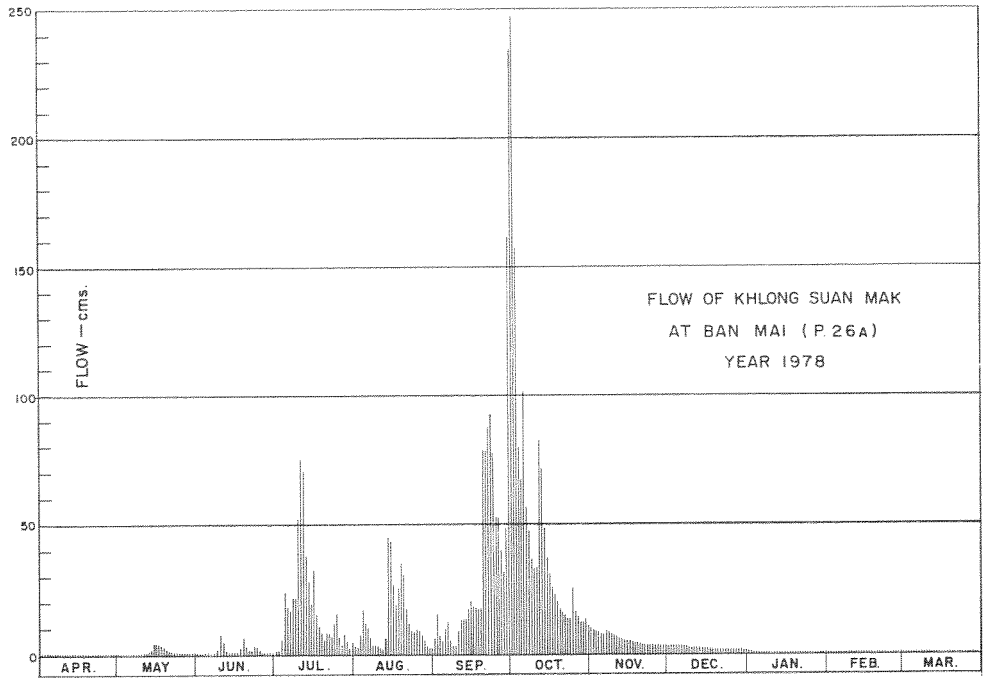
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1974. FLOW REGULATED BY THA KRADAN WEIR BUILT BY THE LOCAL RESIDENTS.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.06	-0.02	0.15	0.14	0.51	0.59	4.46	0.83	0.47	0.27	0.11	-0.04	
2	-0.07	-0.03	0.12	0.32	0.40	1.03	4.68	0.80	0.47	0.27	0.11	-0.11	
3	-0.08	-0.03	0.10	0.35	0.64	0.72	3.20	0.77	0.47	0.26	0.10	-0.12	
4	-0.08	-0.04	0.11	0.66	1.09	0.58	2.47	0.74	0.46	0.25	0.10	-0.15	
5	-0.06	-0.06	0.10	1.26	0.90	0.78	2.26	0.73	0.46	0.23	0.10	-0.14	
6	-0.06	-0.06	0.19	1.08	0.88	0.93	2.85	0.72	0.46	0.22	0.10	-0.14	
7	-0.05	-0.07	0.23	1.06	0.61	0.59	2.04	0.73	0.45	0.20	0.10	-0.15	
8	-0.06	-0.07	0.17	1.22	0.47	0.46	1.81	0.73	0.45	0.19	0.08	-0.16	
9	-0.07	-0.08	0.53	1.22	0.50	0.45	1.60	0.70	0.44	0.18	0.09	-0.15	
10	-0.07	-0.07	0.72	1.70	0.46	0.72	1.50	0.68	0.43	0.18	0.09	-0.16	
11	-0.08	-0.05	0.50	2.39	0.42	0.95	1.51	0.65	0.42	0.18	0.08	-0.15	
12	-0.08	-0.03	0.30	2.31	0.41	0.96	2.53	0.64	0.42	0.17	0.07	-0.14	
13	-0.07	0.15	0.21	1.62	0.65	0.96	2.07	0.62	0.42	0.17	0.07	-0.13	
14	-0.06	0.30	0.25	1.19	1.79	1.07	1.94	0.59	0.41	0.17	0.08	-0.15	
15	-0.05	0.54	0.26	1.16	1.75	1.18	1.65	0.58	0.40	0.17	0.09	-0.15	
16	-0.05	0.54	0.20	1.50	1.30	1.12	1.47	0.58	0.39	0.17	0.09	-0.15	
17	-0.04	0.50	0.26	1.07	1.14	1.11	1.34	0.57	0.38	0.17	0.07	-0.15	
18	-0.04	0.46	0.45	0.87	1.30	1.09	1.24	0.56	0.37	0.17	0.07	-0.15	
19	-0.03	0.42	0.63	0.72	1.57	1.10	1.16	0.55	0.37	0.16	0.06	-0.15	
20	-0.03	0.38	0.44	0.61	1.44	2.46	1.09	0.54	0.36	0.16	0.06	-0.15	
21	-0.05	0.34	0.35	0.74	1.10	2.46	1.05	0.52	0.36	0.16	0.06	-0.15	
22	-0.05	0.30	0.31	0.73	0.90	2.61	0.99	0.51	0.35	0.16	0.06	-0.15	
23	-0.06	0.26	0.45	0.68	0.77	2.69	0.94	0.51	0.35	0.15	0.05	-0.15	
24	-0.06	0.22	0.40	0.92	0.75	2.22	0.96	0.50	0.34	0.14	0.04	-0.15	
25	-0.07	0.19	0.31	1.03	0.81	1.95	1.31	0.50	0.34	0.14	0.04	-0.15	
26	-0.06	0.19	0.21	0.68	0.77	1.94	1.08	0.49	0.33	0.13	0.02	-0.15	
27	-0.04	0.18	0.19	0.51	0.72	1.64	0.98	0.49	0.32	0.13	0.01	-0.15	
28	-0.04	0.17	0.14	0.72	0.59	1.48	0.92	0.49	0.31	0.12	0.00	-0.15	
29	-0.03	0.16	0.14	0.52	0.48	1.81	0.92	0.48	0.31	0.11		-0.15	
30	-0.03	0.15	0.16	0.44	0.42	3.14	0.94	0.48	0.29	0.11		-0.15	
31		0.12		0.62	0.42		0.86		0.29	0.11		-0.13	
MEAN	-0.06	0.16	0.29	0.97	0.84	1.36	1.74	0.61	0.39	0.17	0.07	-0.14	
MAX	-0.03	0.54	0.72	2.39	1.79	3.14	4.68	0.83	0.47	0.27	0.11	-0.04	4.68
MIN	-0.08	-0.08	0.10	0.14	0.40	0.45	0.86	0.48	0.29	0.11	0.00	-0.16	-0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.28 M (A.D), AT 22.00 HOURS, ON OCT 1, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 5.55 M (A.D)
RIGHT BANK ELEVATION 6.38 M (A.D), DRAINAGE AREA 969 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.20	0.16	3.97	5.33	226.40	10.42	3.35	0.96	0.04	0.00	
2	0.00	0.00	0.08	1.42	2.30	15.80	246.20	9.70	3.35	0.96	0.04	0.00	
3	0.00	0.00	0.00	1.75	6.30	7.94	124.00	9.04	3.35	0.88	0.00	0.00	
4	0.00	0.00	0.04	6.70	17.60	5.16	79.65	8.38	3.20	0.80	0.00	0.00	
5	0.00	0.00	0.00	23.36	12.10	9.26	68.28	8.16	3.20	0.64	0.00	0.00	
6	0.00	0.00	0.36	17.30	11.62	12.94	101.50	7.94	3.20	0.56	0.00	0.00	
7	0.00	0.00	0.64	16.70	5.70	5.33	57.16	8.16	3.05	0.40	0.00	0.00	
8	0.00	0.00	0.28	21.92	3.35	3.20	46.07	8.16	3.05	0.36	0.00	0.00	
9	0.00	0.00	4.31	21.92	3.80	3.05	36.80	7.50	2.90	0.32	0.00	0.00	
10	0.00	0.00	7.94	41.10	3.20	7.94	32.60	7.10	2.75	0.32	0.00	0.00	
11	0.00	0.00	3.80	75.26	2.60	13.50	33.02	6.50	2.60	0.32	0.00	0.00	
12	0.00	0.00	1.20	70.94	2.45	13.78	82.98	6.30	2.60	0.28	0.00	0.00	
13	0.00	0.20	0.48	37.66	6.50	13.78	58.63	5.90	2.60	0.28	0.00	0.00	
14	0.00	1.20	0.80	20.87	45.15	17.00	52.26	5.33	2.45	0.28	0.00	0.00	
15	0.00	4.48	0.88	19.88	43.35	20.54	38.95	5.16	2.30	0.28	0.00	0.00	
16	0.00	4.48	0.40	32.60	24.80	18.56	31.40	5.16	2.19	0.28	0.00	0.00	
17	0.00	3.80	0.88	17.00	19.22	18.23	26.32	4.99	2.08	0.28	0.00	0.00	
18	0.00	3.20	3.05	11.38	24.80	17.60	22.64	4.82	1.97	0.28	0.00	0.00	
19	0.00	2.60	6.10	7.94	35.54	17.90	19.88	4.65	1.97	0.24	0.00	0.00	
20	0.00	2.08	2.90	5.70	30.20	79.10	17.60	4.48	1.86	0.24	0.00	0.00	
21	0.00	1.64	1.75	8.38	17.90	79.10	16.40	4.14	1.86	0.24	0.00	0.00	
22	0.00	1.20	1.31	8.16	12.10	87.47	14.62	3.97	1.75	0.24	0.00	0.00	
23	0.00	0.88	3.05	7.10	9.04	92.03	13.22	3.97	1.75	0.20	0.00	0.00	
24	0.00	0.56	2.30	12.66	8.60	66.16	13.78	3.80	1.64	0.16	0.00	0.00	
25	0.00	0.36	1.31	15.80	9.94	52.75	25.18	3.80	1.64	0.16	0.00	0.00	
26	0.00	0.36	0.48	7.10	9.04	52.26	17.30	3.65	1.53	0.12	0.00	0.00	
27	0.00	0.32	0.36	3.97	7.94	38.52	14.34	3.65	1.42	0.12	0.00	0.00	
28	0.00	0.28	0.16	7.94	5.33	31.80	12.66	3.65	1.31	0.08	0.00	0.00	
29	0.00	0.24	0.16	4.14	3.50	46.07	12.66	3.50	1.31	0.04		0.00	
30	0.00	0.20	0.24	2.90	2.60	119.80	13.22	3.50	1.12	0.04		0.00	
31		0.08		5.90	2.60		11.14		1.12	0.04		0.00	
TOTAL	0.00	28.16	45.46	535.61	393.14	971.90	1566.86	175.48	70.47	10.40	0.08	0.00	3797.55 CMSDAY
MEAN	0.00	0.91	1.52	17.28	12.68	32.40	50.54	5.85	2.27	0.34	0.00	0.00	10.40 CMS
MAX	0.00	4.48	7.94	75.26	45.15	119.80	246.20	10.42	3.35	0.96	0.04	0.00	246.20 CMS
MIN	0.00	0.00	0.00	0.16	2.30	3.05	11.14	3.50	1.12	0.04	0.00	0.00	0.00 CMS
RUNOFF	0.000	2.433	3.928	46.277	33.967	83.972	135.376	15.161	6.089	0.899	0.007	0.000	328.109 MCM

MOMENTARY PEAK 303.50 CMS, AT 5.28 M (A.D), AT 22.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 10.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 313.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

HUAI MAE NAI AT BAN MAE NAI, CHIANG MAI (P.27A)

LOCATION — LAT. 18°-53'-18" N., LONG. 98°-55'-00" E., ON LEFT BANK ABOUT 3 KILOMETERS UPSTREAM FROM STATION P.27, BAN MAE NAI, AMPHOE MAE RIM, CHIANG MAI.

DRAINAGE AREA — 18 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR THE TOP STAFF GAGE.

ELEVATION — +3.263 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 — 1968 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1968 TO DATE.

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

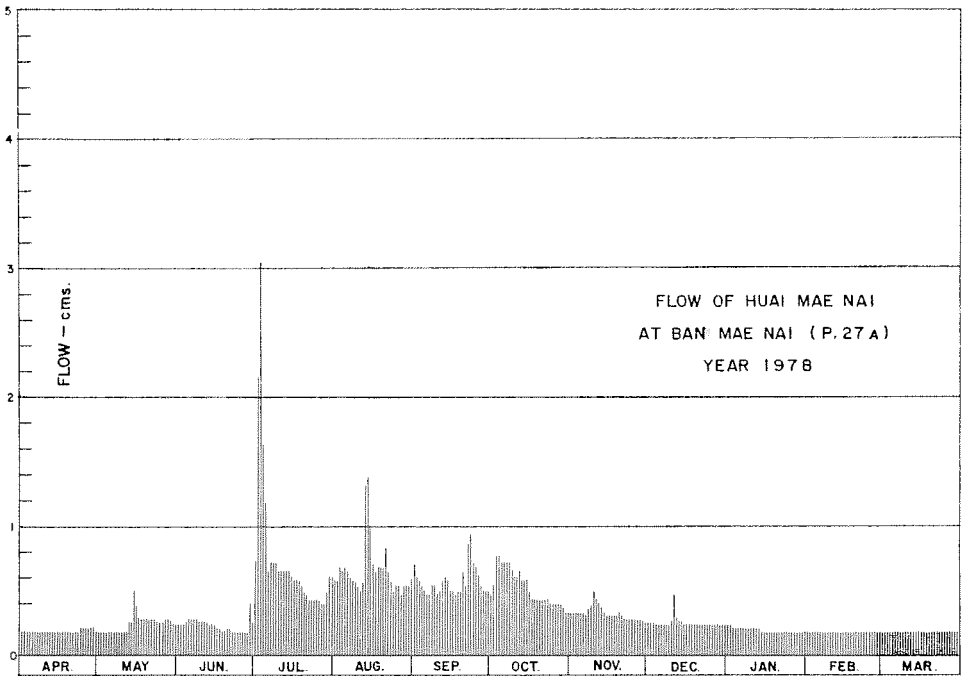
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY A SERIES OF SMALL DIVERSION DAMS BUILT BY THE LOCAL RESIDENTS.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.23	0.25	0.30	0.36	0.40	0.33	0.29	0.26	0.25	0.23	0.23	
2	0.23	0.23	0.25	0.56	0.36	0.37	0.35	0.29	0.26	0.25	0.23	0.23	
3	0.23	0.23	0.25	0.75	0.39	0.36	0.41	0.29	0.26	0.24	0.23	0.23	
4	0.23	0.23	0.26	0.53	0.38	0.35	0.41	0.29	0.25	0.24	0.23	0.23	
5	0.23	0.23	0.27	0.47	0.39	0.34	0.40	0.29	0.25	0.24	0.23	0.23	
6	0.23	0.23	0.27	0.38	0.38	0.33	0.40	0.29	0.25	0.24	0.23	0.23	
7	0.23	0.23	0.27	0.40	0.37	0.33	0.40	0.28	0.25	0.24	0.23	0.23	
8	0.23	0.23	0.27	0.40	0.36	0.35	0.40	0.30	0.25	0.24	0.23	0.23	
9	0.23	0.23	0.26	0.40	0.36	0.35	0.39	0.31	0.25	0.24	0.23	0.23	
10	0.23	0.23	0.26	0.38	0.35	0.33	0.37	0.34	0.27	0.24	0.23	0.23	
11	0.23	0.23	0.26	0.38	0.34	0.34	0.37	0.32	0.33	0.24	0.23	0.23	
12	0.23	0.23	0.26	0.38	0.35	0.36	0.38	0.31	0.27	0.24	0.23	0.23	
13	0.23	0.26	0.25	0.38	0.51	0.37	0.36	0.30	0.26	0.24	0.23	0.23	
14	0.23	0.26	0.25	0.38	0.52	0.36	0.36	0.29	0.26	0.24	0.23	0.23	
15	0.23	0.34	0.25	0.37	0.43	0.34	0.36	0.28	0.25	0.24	0.23	0.23	
16	0.23	0.30	0.24	0.36	0.40	0.34	0.33	0.28	0.25	0.24	0.23	0.23	
17	0.23	0.27	0.24	0.36	0.38	0.33	0.32	0.28	0.25	0.24	0.23	0.23	
18	0.23	0.27	0.23	0.36	0.39	0.34	0.32	0.28	0.25	0.24	0.23	0.23	
19	0.23	0.27	0.23	0.35	0.39	0.34	0.32	0.28	0.25	0.23	0.23	0.23	
20	0.23	0.27	0.24	0.34	0.39	0.38	0.32	0.29	0.25	0.23	0.23	0.23	
21	0.23	0.27	0.24	0.33	0.42	0.35	0.32	0.28	0.25	0.23	0.23	0.23	
22	0.23	0.27	0.23	0.32	0.38	0.42	0.32	0.27	0.25	0.23	0.23	0.23	
23	0.23	0.27	0.23	0.32	0.36	0.44	0.32	0.27	0.25	0.23	0.23	0.23	
24	0.24	0.26	0.23	0.32	0.34	0.40	0.31	0.27	0.25	0.23	0.23	0.23	
25	0.24	0.26	0.23	0.32	0.35	0.39	0.31	0.27	0.25	0.23	0.23	0.23	
26	0.24	0.26	0.23	0.32	0.35	0.37	0.31	0.27	0.25	0.23	0.23	0.23	
27	0.24	0.27	0.23	0.31	0.33	0.35	0.31	0.27	0.25	0.23	0.23	0.23	
28	0.24	0.27	0.23	0.31	0.35	0.34	0.31	0.27	0.25	0.23	0.23	0.23	
29	0.24	0.26	0.31	0.34	0.35	0.34	0.30	0.26	0.25	0.23		0.23	
30	0.23	0.25	0.26	0.37	0.35	0.34	0.29	0.26	0.25	0.23		0.23	
31		0.25		0.37	0.36		0.29		0.25	0.23		0.23	
MEAN	0.23	0.25	0.25	0.38	0.38	0.36	0.34	0.29	0.26	0.24	0.23	0.23	
MAX	0.24	0.34	0.31	0.75	0.52	0.44	0.41	0.34	0.33	0.25	0.23	0.23	0.75
MIN	0.23	0.23	0.23	0.30	0.33	0.33	0.29	0.26	0.25	0.23	0.23	0.23	0.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.23 M (A.D), AT 22.00 HOURS, ON JUL 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 2.17 M (A.D)
RIGHT BANK ELEVATION 2.56 M (A.D), DRAINAGE AREA 18 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.18	0.24	0.36	0.58	0.72	0.47	0.33	0.26	0.24	0.18	0.18	
2	0.18	0.18	0.24	1.64	0.58	0.61	0.54	0.33	0.26	0.24	0.18	0.18	
3	0.18	0.18	0.24	3.04	0.68	0.58	0.77	0.33	0.26	0.21	0.18	0.18	
4	0.18	0.18	0.26	1.44	0.65	0.54	0.77	0.33	0.24	0.21	0.18	0.18	
5	0.18	0.18	0.28	1.09	0.68	0.50	0.72	0.33	0.24	0.21	0.18	0.18	
6	0.18	0.18	0.28	0.65	0.65	0.47	0.72	0.33	0.24	0.21	0.18	0.18	
7	0.18	0.18	0.28	0.72	0.61	0.47	0.72	0.31	0.24	0.21	0.18	0.18	
8	0.18	0.18	0.28	0.72	0.58	0.54	0.72	0.36	0.24	0.21	0.18	0.18	
9	0.18	0.18	0.26	0.72	0.58	0.54	0.68	0.40	0.24	0.21	0.18	0.18	
10	0.18	0.18	0.26	0.65	0.54	0.47	0.61	0.50	0.28	0.21	0.18	0.18	
11	0.18	0.18	0.26	0.65	0.50	0.50	0.61	0.43	0.47	0.21	0.18	0.18	
12	0.18	0.18	0.26	0.65	0.54	0.58	0.65	0.40	0.28	0.21	0.18	0.18	
13	0.18	0.26	0.24	0.65	1.31	0.61	0.58	0.36	0.26	0.21	0.18	0.18	
14	0.18	0.26	0.24	0.65	1.38	0.58	0.58	0.33	0.26	0.21	0.18	0.18	
15	0.18	0.50	0.24	0.61	0.88	0.50	0.58	0.31	0.24	0.21	0.18	0.18	
16	0.18	0.36	0.21	0.58	0.72	0.50	0.47	0.31	0.24	0.21	0.18	0.18	
17	0.18	0.28	0.21	0.58	0.65	0.47	0.43	0.31	0.24	0.21	0.18	0.18	
18	0.18	0.28	0.18	0.58	0.68	0.50	0.43	0.31	0.24	0.21	0.18	0.18	
19	0.18	0.28	0.18	0.54	0.68	0.50	0.43	0.31	0.24	0.18	0.18	0.18	
20	0.18	0.28	0.21	0.50	0.68	0.65	0.43	0.33	0.24	0.18	0.18	0.18	
21	0.18	0.28	0.21	0.47	0.83	0.54	0.43	0.31	0.24	0.18	0.18	0.18	
22	0.18	0.28	0.18	0.43	0.65	0.83	0.43	0.28	0.24	0.18	0.18	0.18	
23	0.18	0.28	0.18	0.43	0.58	0.93	0.43	0.28	0.24	0.18	0.18	0.18	
24	0.21	0.26	0.18	0.43	0.50	0.72	0.40	0.28	0.24	0.18	0.18	0.18	
25	0.21	0.26	0.18	0.43	0.54	0.68	0.40	0.28	0.24	0.18	0.18	0.18	
26	0.21	0.26	0.18	0.43	0.54	0.61	0.40	0.28	0.24	0.18	0.18	0.18	
27	0.21	0.28	0.18	0.40	0.47	0.54	0.40	0.28	0.24	0.18	0.18	0.18	
28	0.21	0.28	0.18	0.40	0.54	0.50	0.40	0.28	0.24	0.18	0.18	0.18	
29	0.21	0.26	0.40	0.50	0.54	0.50	0.36	0.26	0.24	0.18		0.18	
30	0.18	0.24	0.26	0.61	0.54	0.50	0.33	0.26	0.24	0.18		0.18	
31		0.24		0.61	0.58		0.33		0.24	0.18		0.18	
TOTAL	5.58	7.58	6.98	22.16	20.46	17.18	16.22	9.74	7.85	6.18	5.04	5.58	130.55 CMSDAY
MEAN	0.19	0.24	0.23	0.71	0.66	0.57	0.52	0.32	0.25	0.20	0.18	0.18	0.36 CMS
MAX	0.21	0.50	0.40	3.04	1.38	0.93	0.77	0.50	0.47	0.24	0.18	0.18	3.04 CMS
MIN	0.18	0.18	0.18	0.36	0.47	0.47	0.33	0.26	0.24	0.18	0.18	0.18	0.18 CMS
RUNOFF	0.482	0.655	0.603	1.915	1.768	1.484	1.401	0.842	0.678	0.534	0.435	0.482	11.279 MCM

MOMENTARY PEAK 8.02 CMS, AT 1.23 M (A.D), AT 22.00 HOURS, ON JUL 2, 1978
RUNOFF YIELD 19.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 445.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

MAE NGAT RIVER AT BAN MAI, CHIANG MAI (P.28)

LOCATION — LAT. 19°-10'-10" N., LONG. 99°-03'-09" E., ON LEFT BANK ABOUT 2 KILOMETERS UPSTREAM FROM MAE NGAT WEIR, BAN MAI, AMPHOE MAE TAENG, CHIANG MAI.

DRAINAGE AREA — 1,261 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +346.403 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +358.567 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 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 244 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY MAE NGAT WEIR BUILT FOR IRRIGATION BY THE LOCAL RESIDENTS.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

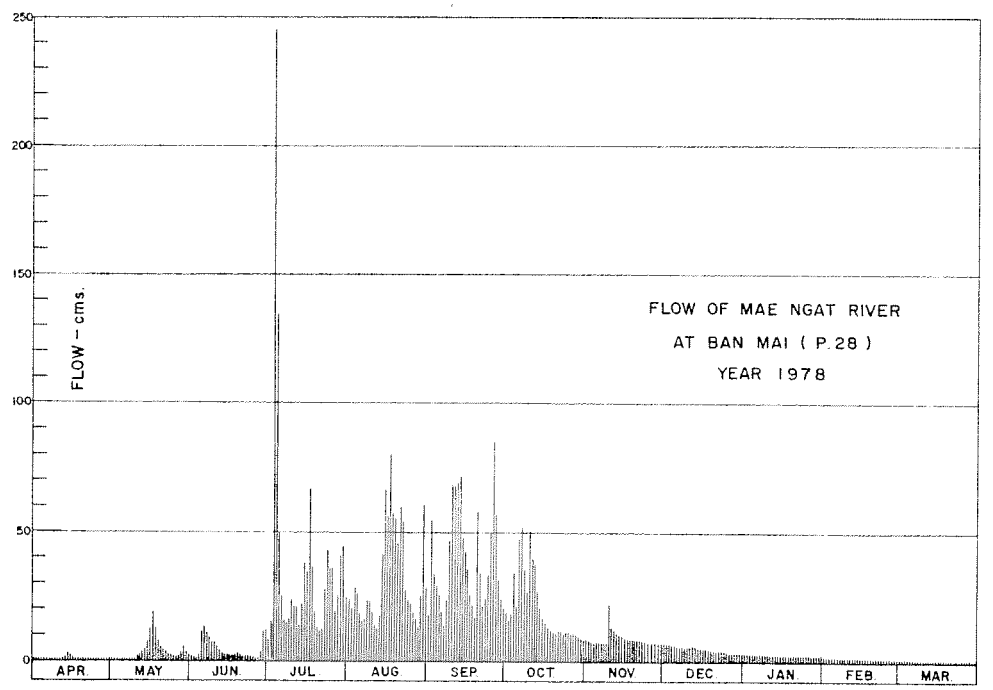
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	347.00	346.94	347.19	347.55	347.83	347.75	347.74	347.40	347.35	347.12	346.99	346.87	
2	347.00	346.94	347.15	347.81	347.88	348.46	347.70	347.39	347.34	347.12	346.98	346.89	
3	347.00	346.93	347.13	350.50	347.71	348.13	347.74	347.38	347.34	347.13	346.98	346.91	
4	347.00	346.93	347.18	349.50	347.98	347.99	348.10	347.36	347.33	347.12	346.97	346.90	
5	347.00	346.94	347.70	348.39	347.79	347.80	347.82	347.38	347.32	347.12	346.96	346.90	
6	347.00	346.95	347.76	347.88	347.67	347.71	348.32	347.37	347.31	347.12	346.96	346.87	
7	347.00	346.96	347.69	347.67	347.71	347.61	348.41	347.36	347.30	347.12	346.97	346.85	
8	347.00	347.03	347.57	347.65	347.86	347.86	348.15	347.36	347.30	347.10	346.96	346.85	
9	347.00	347.03	347.48	347.70	347.88	348.33	347.95	347.36	347.30	347.09	346.96	346.85	
10	347.00	347.04	347.48	347.88	347.82	348.68	348.39	347.83	347.29	347.11	346.95	346.85	
11	347.01	347.13	347.38	347.81	347.63	348.68	348.20	347.62	347.29	347.10	346.97	346.84	
12	347.01	347.22	347.30	347.82	347.58	348.70	348.14	347.57	347.32	347.10	346.97	346.84	
13	347.08	347.30	347.24	347.61	347.73	348.73	347.93	347.51	347.30	347.09	346.95	346.83	
14	347.25	347.34	347.21	347.82	348.21	348.38	347.79	347.47	347.29	347.07	346.93	346.83	
15	347.15	347.53	347.22	348.17	348.64	348.23	347.72	347.45	347.26	347.06	346.91	346.84	
16	347.09	347.70	347.21	348.11	348.50	348.13	347.65	347.44	347.24	347.06	346.91	346.84	
17	347.08	347.97	347.22	348.66	348.85	347.94	347.60	347.43	347.24	347.05	346.91	346.83	
18	347.06	347.83	347.23	348.15	348.52	347.81	347.56	347.42	347.23	347.06	346.91	346.83	
19	347.05	347.62	347.28	347.77	348.48	347.72	347.54	347.41	347.22	347.06	346.91	346.82	
20	347.03	347.45	347.24	347.61	348.31	348.52	347.51	347.41	347.20	347.05	346.90	346.82	
21	347.01	347.36	347.16	347.53	348.55	348.03	347.55	347.42	347.17	347.05	346.89	346.81	
22	346.99	347.30	347.19	347.58	348.44	347.83	347.55	347.41	347.17	347.06	346.89	346.81	
23	346.98	347.23	347.17	347.94	347.96	347.87	347.50	347.40	347.18	347.05	346.89	346.80	
24	346.96	347.21	347.17	348.25	347.86	348.07	347.54	347.40	347.17	347.08	346.88	346.81	
25	346.95	347.17	347.12	348.13	347.84	348.24	347.53	347.39	347.15	347.08	346.87	346.82	
26	346.95	347.15	347.09	348.14	347.74	348.92	347.50	347.37	347.13	347.08	346.87	346.82	
27	346.94	347.18	347.08	347.77	347.68	348.37	347.51	347.37	347.13	347.06	346.87	346.82	
28	346.95	347.29	347.22	347.91	347.58	348.06	347.48	347.36	347.14	347.04	346.87	346.81	
29	346.95	347.39	347.69	348.23	347.87	347.91	347.46	347.36	347.15	347.04		346.81	
30	346.95	347.27	347.72	348.29	348.56	347.80	347.42	347.35	347.13	347.02		346.81	
31		347.23		347.95	347.97		347.40		347.13	347.06		346.80	
MEAN	347.01	347.24	347.32	348.06	348.02	348.14	347.75	347.42	347.24	347.08	346.93	346.84	
MAX	347.25	347.97	347.76	350.50	348.85	348.92	348.41	347.83	347.35	347.13	346.99	346.91	350.50
MIN	346.94	346.93	347.08	347.53	347.58	347.61	347.40	347.35	347.13	347.02	346.87	346.80	346.80

ANNUAL MAX MOMENTARY GAGE HEIGHT 351.00 M (MSL), AT 12.00 HOURS, ON JUL 3, 1978

ZERO GAGE AT BOTTOM ELEVATION 346.40 M (MSL), RIVER BED 346.68 M (MSL)

LEFT BANK ELEVATION 355.62 M (MSL)

RIGHT BANK ELEVATION 354.29 M (MSL), DRAINAGE AREA 1261 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.04	2.08	8.50	21.86	18.50	18.08	8.30	7.15	3.28	1.90	0.82	
2	0.10	0.04	1.60	14.46	23.96	54.60	16.40	8.07	6.92	3.28	1.80	0.94	
3	0.10	0.03	1.36	244.99	16.82	35.96	18.08	7.84	6.92	3.42	1.80	1.10	
4	0.10	0.03	1.96	134.99	28.32	28.76	34.40	7.38	6.69	3.28	1.70	1.00	
5	0.10	0.04	11.70	50.42	20.18	20.60	21.44	7.84	6.46	3.28	1.60	1.00	
6	0.10	0.05	13.20	23.96	15.50	16.82	46.36	7.61	6.23	3.28	1.60	0.82	
7	0.10	0.06	11.48	15.50	16.82	13.70	51.60	7.38	6.00	3.28	1.70	0.70	
8	0.10	0.37	8.90	14.90	23.12	23.12	37.00	7.38	6.00	3.00	1.60	0.70	
9	0.10	0.37	7.10	16.40	23.96	46.94	27.00	7.38	6.00	2.90	1.60	0.70	
10	0.10	0.46	7.10	23.96	21.44	68.12	50.42	21.86	5.84	3.14	1.50	0.70	
11	0.19	1.36	5.12	21.02	14.30	68.12	39.60	14.00	5.84	3.00	1.70	0.64	
12	0.19	2.48	3.60	21.44	12.84	69.40	36.48	12.56	6.46	3.00	1.70	0.64	
13	0.82	3.60	2.76	13.70	17.66	71.50	26.12	10.88	6.00	2.90	1.50	0.58	
14	2.90	4.36	2.34	21.44	40.16	49.84	20.18	9.91	5.84	2.70	1.30	0.58	
15	1.60	8.10	2.48	38.04	65.56	41.28	17.24	9.45	5.36	2.60	1.10	0.64	
16	0.91	11.70	2.24	34.92	57.00	35.96	14.90	9.22	5.04	2.60	1.10	0.64	
17	0.82	18.76	2.48	66.84	80.00	26.56	13.40	8.99	5.04	2.50	1.10	0.58	
18	0.64	14.98	2.62	37.00	58.20	21.02	12.28	8.76	4.88	2.60	1.10	0.58	
19	0.55	9.94	3.32	19.34	55.80	17.24	11.72	8.53	4.72	2.60	1.10	0.52	
20	0.37	6.50	2.76	13.70	45.78	58.20	10.88	8.53	4.40	2.50	1.00	0.52	
21	0.19	4.74	1.72	11.44	60.00	30.76	12.00	8.76	3.98	2.50	0.94	0.46	
22	0.09	3.60	2.08	12.84	53.40	21.86	12.00	8.53	3.98	2.60	0.94	0.46	
23	0.09	2.62	1.84	26.56	27.44	23.54	10.60	8.30	4.12	2.50	0.94	0.40	
24	0.06	2.34	1.84	42.40	23.12	32.84	11.72	8.30	3.98	2.80	0.88	0.46	
25	0.05	1.84	1.24	35.96	22.28	41.84	11.44	8.07	3.70	2.80	0.82	0.52	
26	0.05	1.60	0.91	36.48	18.08	85.12	10.60	7.61	3.42	2.80	0.82	0.52	
27	0.04	1.96	0.82	19.34	15.80	49.26	10.88	7.61	3.42	2.60	0.82	0.52	
28	0.05	3.46	2.48	25.24	12.84	32.32	10.14	7.38	3.56	2.40	0.82	0.46	
29	0.05	5.31	11.48	41.28	23.54	25.24	9.68	7.38	3.70	2.40		0.46	
30	0.05	3.18	12.20	44.64	60.60	20.60	8.76	7.15	3.42	2.20		0.46	
31		2.62		27.00	27.88		8.30		3.42	2.60		0.40	
TOTAL	10.70	116.54	132.91	1158.70	1004.26	1149.62	639.70	270.96	158.49	87.34	36.48	19.52	4785.21 CMSDAY
MEAN	0.36	3.76	4.43	37.38	32.40	38.32	20.64	9.03	5.11	2.82	1.30	0.63	13.11 CMS
MAX	2.90	18.76	13.20	244.99	80.00	85.12	51.60	21.86	7.15	3.42	1.90	1.10	244.99 CMS
MIN	0.04	0.03	0.82	8.50	12.84	13.70	8.30	7.15	3.42	2.20	0.82	0.40	0.03 CMS
RUNOFF	0.924	10.069	11.483	100.112	86.768	99.327	55.270	23.411	13.694	7.546	3.152	1.687	413.442 MCM

MOMENTARY PEAK 310.29 CMS, AT 351.00 M (MSL), AT 12.00 HOURS, ON JUL 3, 1978

RUNOFF YIELD 10.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 246.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

MAE LI RIVER 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

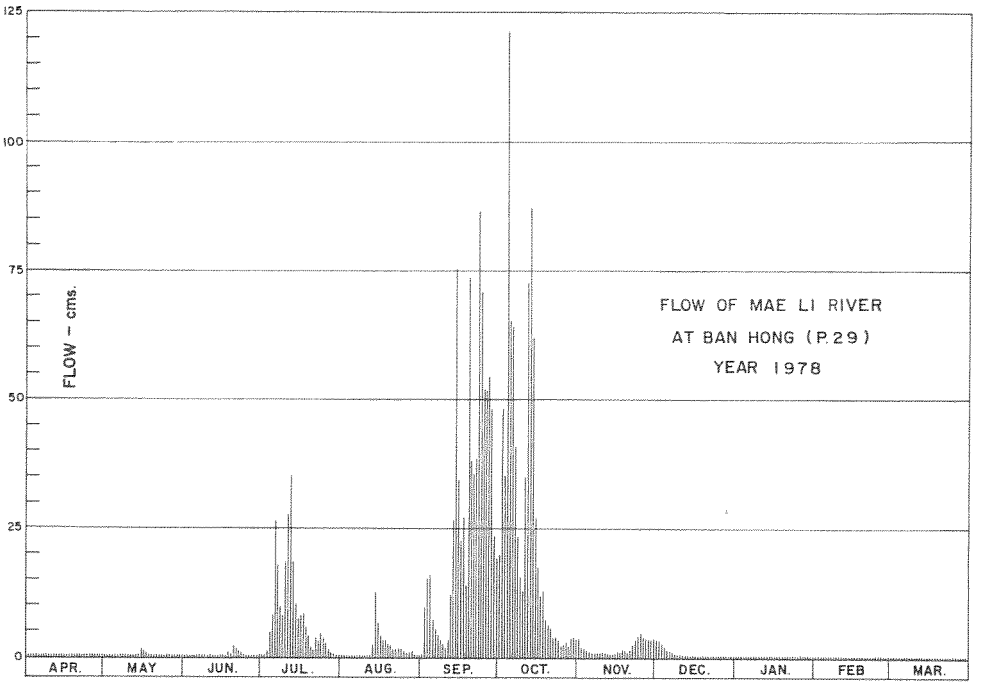
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.24	0.26	0.29	0.38	0.45	1.26	0.77	0.76	0.33	0.31	0.26	
2	0.24	0.24	0.25	0.29	0.36	1.05	1.59	0.63	0.75	0.33	0.31	0.26	
3	0.24	0.24	0.24	0.32	0.36	1.18	1.46	0.63	0.72	0.35	0.30	0.26	
4	0.24	0.25	0.23	0.83	0.35	1.20	2.05	0.57	0.65	0.41	0.30	0.27	
5	0.24	0.25	0.24	0.99	0.36	1.04	1.74	0.55	0.60	0.37	0.30	0.27	
6	0.24	0.25	0.24	1.35	0.39	0.94	1.73	0.54	0.57	0.33	0.30	0.26	
7	0.24	0.25	0.24	1.23	0.37	0.85	1.47	0.54	0.55	0.32	0.30	0.27	
8	0.24	0.24	0.24	1.06	0.34	0.77	1.29	0.53	0.50	0.32	0.30	0.27	
9	0.24	0.24	0.23	0.99	0.34	0.70	1.19	0.53	0.50	0.32	0.30	0.28	
10	0.24	0.24	0.23	1.22	0.34	0.61	1.14	0.52	0.48	0.31	0.30	0.28	
11	0.24	0.24	0.24	1.30	0.34	0.74	1.52	0.50	0.48	0.31	0.29	0.28	
12	0.24	0.25	0.24	1.46	0.35	0.99	1.78	0.49	0.46	0.31	0.29	0.28	
13	0.24	0.37	0.24	1.23	0.35	1.26	1.88	0.49	0.43	0.31	0.29	0.28	
14	0.24	0.45	0.26	1.06	1.13	1.81	1.60	0.50	0.41	0.31	0.28	0.27	
15	0.25	0.59	0.28	0.97	0.97	1.41	1.35	0.50	0.44	0.31	0.28	0.28	
16	0.25	0.58	0.24	1.00	0.82	1.30	1.23	0.55	0.45	0.31	0.28	0.27	
17	0.25	0.49	0.43	1.01	0.76	1.36	1.12	0.55	0.45	0.31	0.27	0.27	
18	0.25	0.43	0.52	0.92	0.74	1.16	1.14	0.60	0.44	0.32	0.27	0.27	
19	0.24	0.39	0.44	0.80	0.66	1.80	0.98	0.56	0.43	0.31	0.28	0.27	
20	0.24	0.38	0.65	0.63	0.65	1.49	0.91	0.54	0.42	0.31	0.28	0.27	
21	0.24	0.37	0.60	0.55	0.60	1.46	0.90	0.59	0.44	0.30	0.27	0.27	
22	0.25	0.35	0.56	0.78	0.61	1.52	0.79	0.69	0.42	0.31	0.27	0.27	
23	0.26	0.35	0.53	0.73	0.63	1.88	0.78	0.77	0.42	0.30	0.27	0.28	
24	0.26	0.34	0.34	0.83	0.61	1.75	0.72	0.82	0.43	0.30	0.27	0.28	
25	0.25	0.32	0.32	0.77	0.57	1.63	0.66	0.84	0.41	0.30	0.27	0.29	
26	0.25	0.30	0.30	0.72	0.54	1.63	0.67	0.80	0.40	0.31	0.27	0.29	
27	0.25	0.28	0.31	0.58	0.54	1.65	0.72	0.78	0.37	0.31	0.26	0.29	
28	0.24	0.27	0.30	0.52	0.55	1.52	0.66	0.77	0.35	0.31	0.26	0.29	
29	0.24	0.26	0.29	0.47	0.48	1.31	0.77	0.76	0.35	0.31		0.29	
30	0.24	0.26	0.28	0.41	0.46	1.25	0.78	0.77	0.35	0.31		0.28	
31		0.27		0.40	0.46		0.77		0.34	0.31		0.28	
MEAN	0.24	0.32	0.33	0.83	0.53	1.26	1.18	0.62	0.48	0.32	0.28	0.28	
MAX	0.26	0.59	0.65	1.46	1.13	1.88	2.05	0.84	0.76	0.41	0.31	0.29	2.05
MIN	0.24	0.24	0.23	0.29	0.34	0.45	0.66	0.49	0.34	0.30	0.26	0.26	0.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.08 M (A.D), AT 9.00 HOURS, ON OCT 4, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.07 M (A.D)
LEFT BANK ELEVATION 4.84 M (A.D)
RIGHT BANK ELEVATION 4.79 M (A.D), DRAINAGE AREA 1970 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.02	0.03	0.04	0.11	0.36	19.90	3.61	3.48	0.07	0.06	0.03	
2	0.02	0.02	0.03	0.04	0.09	9.50	47.55	1.86	3.35	0.07	0.06	0.03	
3	0.02	0.02	0.02	0.06	0.09	15.00	35.40	1.86	2.96	0.08	0.05	0.03	
4	0.02	0.03	0.01	4.57	0.08	16.00	121.00	1.23	2.10	0.17	0.05	0.03	
5	0.02	0.03	0.02	7.79	0.09	9.20	65.40	1.05	1.50	0.10	0.05	0.03	
6	0.02	0.03	0.02	26.25	0.11	6.74	64.05	0.96	1.23	0.07	0.05	0.03	
7	0.02	0.03	0.02	17.95	0.10	4.95	36.30	0.96	1.05	0.06	0.05	0.03	
8	0.02	0.02	0.02	9.80	0.08	3.61	21.85	0.87	0.60	0.06	0.05	0.03	
9	0.02	0.02	0.01	7.79	0.08	2.70	15.50	0.87	0.60	0.06	0.05	0.04	
10	0.02	0.02	0.01	17.30	0.08	1.62	13.00	0.78	0.50	0.06	0.05	0.04	
11	0.02	0.02	0.02	22.50	0.08	3.22	40.90	0.60	0.50	0.06	0.04	0.04	
12	0.02	0.03	0.02	35.40	0.08	7.79	70.80	0.55	0.41	0.06	0.04	0.04	
13	0.02	0.10	0.02	17.95	0.08	19.90	86.30	0.55	0.26	0.06	0.04	0.04	
14	0.02	0.36	0.03	9.80	12.50	75.10	48.50	0.60	0.17	0.06	0.04	0.03	
15	0.03	1.41	0.04	7.37	7.37	30.90	26.25	0.60	0.31	0.06	0.04	0.04	
16	0.03	1.32	0.02	8.00	4.38	22.50	17.95	1.05	0.36	0.06	0.04	0.03	
17	0.03	0.55	0.26	8.30	3.48	27.00	12.00	1.05	0.36	0.06	0.03	0.03	
18	0.03	0.26	0.78	6.32	3.22	14.00	13.00	1.50	0.31	0.06	0.03	0.03	
19	0.02	0.11	0.31	4.00	2.22	73.50	7.58	1.14	0.26	0.06	0.04	0.03	
20	0.02	0.11	2.10	1.86	2.10	38.10	6.11	0.96	0.22	0.06	0.04	0.03	
21	0.02	0.10	1.50	1.05	1.50	35.40	5.90	1.41	0.31	0.05	0.03	0.03	
22	0.03	0.08	1.14	3.74	1.62	40.90	3.87	2.58	0.22	0.06	0.03	0.03	
23	0.03	0.08	0.87	3.09	1.86	86.30	3.74	3.61	0.22	0.05	0.03	0.04	
24	0.03	0.08	0.08	4.57	1.62	66.75	2.96	4.38	0.26	0.05	0.03	0.04	
25	0.03	0.06	0.06	3.61	1.23	51.95	2.22	4.76	0.17	0.05	0.03	0.04	
26	0.03	0.05	0.05	2.96	0.96	51.95	2.34	4.00	0.12	0.06	0.03	0.04	
27	0.03	0.04	0.06	1.32	0.96	54.25	2.96	3.74	0.10	0.06	0.03	0.04	
28	0.02	0.03	0.05	0.78	1.05	40.90	2.22	3.61	0.08	0.06	0.03	0.04	
29	0.02	0.03	0.04	0.46	0.50	23.25	3.61	3.48	0.08	0.06		0.04	
30	0.02	0.03	0.04	0.17	0.41	19.25	3.74	3.61	0.08	0.06		0.04	
31		0.03		0.12	0.41		3.61		0.08	0.06		0.04	
TOTAL	0.71	5.12	7.68	234.96	48.54	852.59	806.51	57.83	22.25	2.02	1.14	1.08	2040.43 CMSDAY
MEAN	0.02	0.17	0.26	7.58	1.57	28.42	26.02	1.93	0.72	0.07	0.04	0.03	5.59 CMS
MAX	0.03	1.41	2.10	35.40	12.50	86.30	121.00	4.76	3.48	0.17	0.06	0.04	121.00 CMS
MIN	0.02	0.02	0.01	0.04	0.08	0.36	2.22	0.55	0.08	0.05	0.03	0.03	0.01 CMS
RUNOFF	0.061	0.442	0.664	20.301	4.194	73.664	69.682	4.997	1.922	0.175	0.098	0.093	176.293 MCM

MOMENTARY PEAK 128.20 CMS, AT 2.08 M (A.D), AT 9.00 HOURS, ON OCT 4, 1978

RUNOFF YIELD 2.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 65.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

MAE KUANG RIVER AT BAN KIANG KHA MAI, CHIANG MAI (P.30)

LOCATION — LAT. 18°56'35" N., LONG. 99°08'20" E., ON RIGHT BANK AT BAN KIANG KHA MAI, AMPHOE DOI SAKET, CHIANG MAI.

DRAINAGE AREA — 466 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +344.50 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — INFRONT OF AUTOMATIC GAGE BUILDING.

ELEVATION — +349.874 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967 - 1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967 - 1973

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

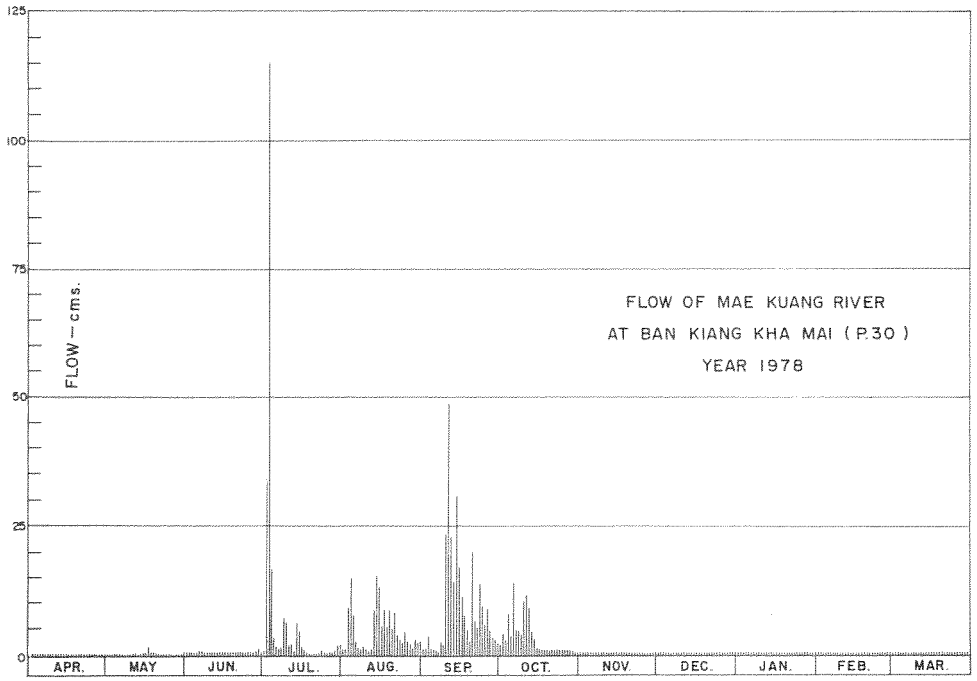
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 686 DISCHARGE MEASUREMENTS MADE DURING 1969-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	345.14	345.11	345.22	345.30	345.59	345.59	345.66	345.45	345.34	345.25	345.16	345.09	
2	345.14	345.22	345.20	345.76	345.56	345.59	345.77	345.44	345.34	345.25	345.15	345.09	
3	345.13	345.18	345.18	347.25	345.86	345.75	345.73	345.43	345.34	345.24	345.15	345.09	
4	345.14	345.15	345.20	346.03	346.08	345.58	345.92	345.43	345.33	345.23	345.15	345.08	
5	345.13	345.14	345.26	345.73	345.89	345.55	345.77	345.42	345.32	345.23	345.15	345.08	
6	345.13	345.15	345.49	345.63	345.67	345.53	346.07	345.41	345.31	345.22	345.15	345.07	
7	345.12	345.15	345.48	345.53	345.60	345.48	345.82	345.41	345.31	345.21	345.15	345.06	
8	345.11	345.31	345.31	345.61	345.59	345.69	345.81	345.41	345.31	345.21	345.15	345.06	
9	345.12	345.24	345.27	345.89	345.63	345.63	345.78	345.41	345.31	345.21	345.14	345.06	
10	345.13	345.23	345.26	345.87	345.57	346.13	345.99	345.45	345.31	345.21	345.13	345.06	
11	345.13	345.43	345.29	345.64	345.51	346.10	346.01	345.42	345.31	345.21	345.13	345.06	
12	345.14	345.47	345.15	345.67	345.55	346.19	345.96	345.41	345.31	345.21	345.12	345.06	
13	345.28	345.40	345.23	345.50	345.89	346.07	345.82	345.41	345.31	345.21	345.11	345.06	
14	345.26	345.29	345.23	345.86	346.09	346.37	345.73	345.41	345.31	345.21	345.10	345.06	
15	345.21	345.47	345.23	345.79	346.04	346.14	345.62	345.41	345.31	345.19	345.10	345.05	
16	345.21	345.46	345.27	345.64	345.83	346.00	345.57	345.41	345.31	345.19	345.10	345.05	
17	345.21	345.63	345.32	345.55	345.93	345.90	345.56	345.38	345.31	345.20	345.10	345.05	
18	345.21	345.43	345.30	345.45	345.82	345.79	345.57	345.38	345.30	345.20	345.10	345.06	
19	345.20	345.45	345.31	345.39	345.94	345.72	345.55	345.38	345.28	345.20	345.10	345.05	
20	345.19	345.42	345.33	345.38	345.80	346.19	345.55	345.37	345.27	345.19	345.09	345.05	
21	345.18	345.32	345.27	345.36	345.92	345.88	345.59	345.37	345.27	345.19	345.09	345.04	
22	345.18	345.28	345.24	345.40	345.78	345.83	345.56	345.37	345.27	345.19	345.09	345.03	
23	345.18	345.31	345.23	345.38	345.73	346.06	345.58	345.37	345.27	345.19	345.09	345.03	
24	345.13	345.26	345.21	345.52	345.68	345.97	345.55	345.37	345.26	345.19	345.08	345.03	
25	345.11	345.24	345.21	345.41	345.80	345.83	345.54	345.35	345.25	345.19	345.08	345.03	
26	345.11	345.22	345.21	345.41	345.70	345.94	345.55	345.35	345.25	345.19	345.09	345.04	
27	345.12	345.33	345.24	345.41	345.64	345.81	345.56	345.35	345.25	345.19	345.09	345.03	
28	345.14	345.37	345.41	345.47	345.58	345.74	345.54	345.35	345.25	345.18	345.09	345.03	
29	345.11	345.33	345.55	345.59	345.72	345.71	345.50	345.35	345.25	345.17		345.03	
30	345.11	345.28	345.37	345.64	345.68	345.68	345.45	345.35	345.25	345.17		345.04	
31		345.24		345.64	345.69		345.45		345.25	345.17		345.03	
MEAN	345.16	345.31	345.28	345.63	345.75	345.85	345.68	345.39	345.29	345.20	345.11	345.05	
MAX	345.28	345.63	345.55	347.25	346.09	346.37	346.07	345.45	345.34	345.25	345.16	345.09	347.25
MIN	345.11	345.11	345.15	345.30	345.51	345.48	345.45	345.35	345.25	345.17	345.08	345.03	345.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 348.06 M (MSL), AT 8:00 HOURS, ON JUL 3, 1978
ZERO GAGE AT BOTTOM ELEVATION 344.50 M (MSL), RIVER BED 344.49 M (MSL)
LEFT BANK ELEVATION 351.35 M (MSL)
RIGHT BANK ELEVATION 350.27 M (MSL), DRAINAGE AREA 466 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.94	0.94	1.84	0.20	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	3.48	0.76	0.94	3.66	0.16	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	114.70	6.66	3.30	2.94	0.12	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	12.12	14.32	0.88	7.92	0.12	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.94	6.90	0.70	3.66	0.08	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.36	1.42	1.98	0.58	13.88	0.04	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.32	0.58	1.00	0.32	4.50	0.04	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.14	0.94	2.26	4.50	0.04	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	6.90	1.42	1.42	3.84	0.04	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	6.30	0.82	16.70	10.44	0.20	0.00	0.00	0.00	0.00	
11	0.00	0.12	0.00	1.56	0.46	15.20	11.24	0.08	0.00	0.00	0.00	0.00	
12	0.00	0.28	0.00	1.98	0.70	19.70	9.36	0.04	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.40	6.90	13.88	4.80	0.04	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	6.00	14.76	30.48	2.94	0.04	0.00	0.00	0.00	0.00	
15	0.00	0.28	0.00	4.02	12.56	17.20	1.28	0.04	0.00	0.00	0.00	0.00	
16	0.00	0.24	0.00	1.56	5.10	10.80	0.82	0.04	0.00	0.00	0.00	0.00	
17	0.00	1.42	0.00	0.70	8.28	7.20	0.76	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.12	0.00	0.20	4.80	4.02	0.82	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.20	0.00	0.00	8.64	2.76	0.70	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.08	0.00	0.00	4.20	19.70	0.70	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	7.92	6.60	0.94	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	3.84	5.10	0.76	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	2.94	13.44	0.88	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.52	2.12	9.72	0.70	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.04	4.20	5.10	0.64	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.04	2.40	8.64	0.70	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.04	1.56	4.50	0.76	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.04	0.28	0.88	3.12	0.64	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.70	0.94	2.76	2.58	0.40	0.00	0.00	0.00		0.00	
30	0.00	0.00	0.00	1.56	2.12	2.12	0.20	0.00	0.00	0.00		0.00	
31		0.00		1.56	2.26		0.20		0.00	0.00		0.00	
TOTAL	0.00	2.74	1.42	170.98	134.48	229.90	97.72	1.32	0.00	0.00	0.00	0.00	638.56 CMSDAY
MEAN	0.00	0.09	0.05	5.52	4.34	7.66	3.15	0.04	0.00	0.00	0.00	0.00	1.75 CMS
MAX	0.00	1.42	0.70	114.70	14.76	30.48	13.88	0.20	0.00	0.00	0.00	0.00	114.70 CMS
MIN	0.00	0.00	0.00	0.00	0.46	0.32	0.20	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.237	0.123	14.773	11.619	19.863	8.443	0.114	0.000	0.000	0.000	0.000	55.171 MCM

MOMENTARY PEAK 207.76 CMS, AT 348.06 M (MSL), AT 8.00 HOURS, ON JUL 3, 1978

RUNOFF YIELD 3.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 445.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

HUAI 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.S.

LOCATION — ON RIGHT BANK NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +3.516 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR 1- MAY 16, AUG 24- SEPT 15, 1978 AND DEC 13, 1978 - MAR 31, 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

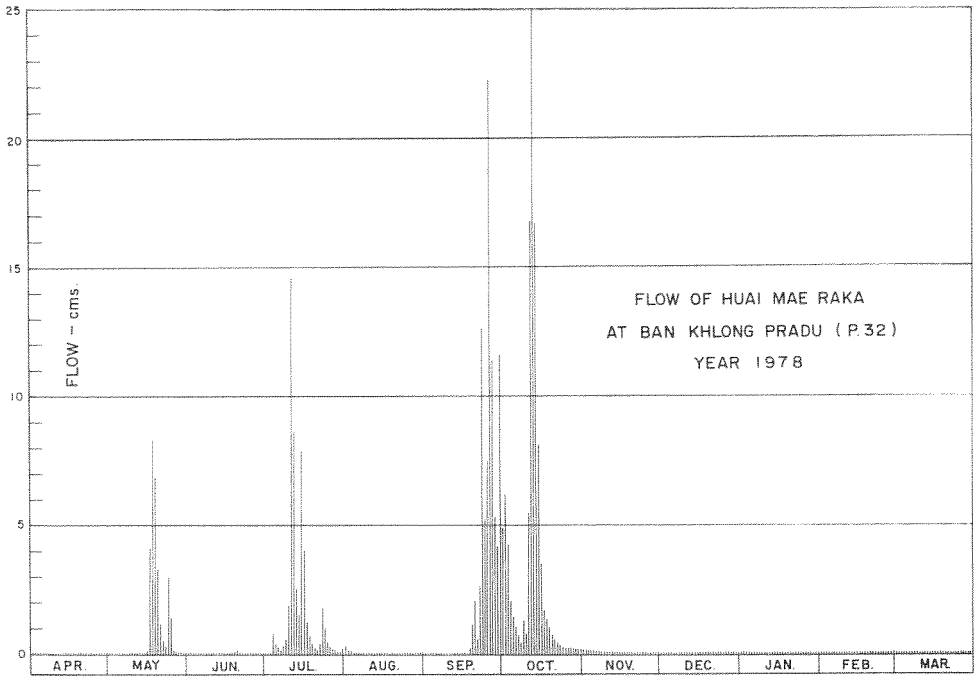
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.18	-0.18	-0.06	-0.08	0.11	-0.12	0.73	0.04	-0.06	-0.14	-0.11	-0.11	
2	-0.18	-0.18	-0.06	-0.05	0.04	-0.12	0.84	0.03	-0.06	-0.14	-0.11	-0.11	
3	-0.18	-0.18	-0.06	-0.05	0.01	-0.12	0.68	0.03	-0.06	-0.14	-0.11	-0.11	
4	-0.18	-0.18	-0.06	0.21	-0.02	-0.12	0.46	0.02	-0.06	-0.14	-0.11	-0.11	
5	-0.18	-0.18	-0.07	0.12	-0.03	-0.12	0.31	0.01	-0.06	-0.15	-0.11	-0.11	
6	-0.18	-0.18	-0.07	0.07	-0.03	-0.13	0.24	0.01	-0.06	-0.15	-0.11	-0.11	
7	-0.18	-0.18	-0.06	0.04	-0.04	-0.13	0.19	0.00	-0.06	-0.15	-0.11	-0.11	
8	-0.18	-0.18	-0.06	0.11	-0.04	-0.13	0.14	0.00	-0.06	-0.15	-0.11	-0.11	
9	-0.18	-0.18	-0.06	0.20	-0.04	-0.14	0.30	-0.01	-0.06	-0.15	-0.11	-0.11	
10	-0.18	-0.18	-0.06	0.40	-0.06	-0.14	0.21	-0.01	-0.06	-0.15	-0.11	-0.11	
11	-0.18	-0.18	-0.06	1.33	-0.08	-0.13	0.49	-0.01	-0.06	-0.13	-0.11	-0.11	
12	-0.18	-0.18	-0.07	0.91	-0.10	-0.13	1.41	-0.01	-0.07	-0.13	-0.11	-0.11	
13	-0.18	-0.18	-0.08	0.48	-0.06	-0.12	1.80	-0.01	-0.10	-0.13	-0.11	-0.11	
14	-0.18	-0.18	-0.08	0.34	-0.03	-0.11	1.14	-0.02	-0.10	-0.13	-0.11	-0.11	
15	-0.18	-0.18	-0.10	0.96	-0.05	-0.10	0.69	-0.02	-0.10	-0.12	-0.11	-0.11	
16	-0.18	-0.18	-0.10	0.52	-0.06	-0.10	0.51	-0.03	-0.10	-0.12	-0.11	-0.11	
17	-0.18	0.69	-0.06	0.29	-0.06	-0.50	0.38	-0.03	-0.11	-0.11	-0.11	-0.11	
18	-0.18	0.99	-0.06	0.18	-0.06	0.00	0.30	-0.04	-0.11	-0.11	-0.11	-0.11	
19	-0.18	0.89	0.00	0.11	-0.06	0.27	0.25	-0.04	-0.12	-0.11	-0.11	-0.11	
20	-0.18	0.56	0.01	0.07	-0.07	0.42	0.20	-0.04	-0.12	-0.11	-0.11	-0.11	
21	-0.18	0.29	-0.04	0.05	-0.08	0.17	0.16	-0.04	-0.12	-0.10	-0.11	-0.11	
22	-0.18	0.17	-0.06	0.13	-0.08	0.32	0.13	-0.03	-0.12	-0.10	-0.11	-0.11	
23	-0.18	0.10	-0.06	0.39	-0.08	1.23	0.11	-0.04	-0.12	-0.10	-0.11	-0.11	
24	-0.18	0.52	-0.05	0.22	-0.10	0.76	0.09	-0.04	-0.13	-0.10	-0.11	-0.11	
25	-0.18	0.27	-0.05	0.12	-0.10	0.87	0.08	-0.04	-0.13	-0.10	-0.11	-0.11	
26	-0.18	0.02	-0.06	0.07	-0.10	1.67	0.08	-0.05	-0.13	-0.10	-0.11	-0.11	
27	-0.18	-0.01	-0.06	0.04	-0.10	0.93	0.06	-0.05	-0.13	-0.10	-0.11	-0.11	
28	-0.18	-0.02	-0.08	0.02	-0.11	0.71	0.06	-0.06	-0.13	-0.10	-0.11	-0.11	
29	-0.18	-0.04	-0.06	-0.01	-0.11	0.65	0.06	-0.06	-0.13	-0.10		-0.11	
30	-0.18	-0.05	-0.07	-0.01	-0.11	1.18	0.05	-0.06	-0.14	-0.10		-0.11	
31		-0.05		0.08	-0.12		0.04		-0.14	-0.10		-0.11	
MEAN	-0.18	0.05	-0.06	0.23	-0.06	0.22	0.39	-0.02	-0.10	-0.12	-0.11	-0.11	
MAX	-0.18	0.99	0.01	1.33	0.11	1.67	1.80	0.04	-0.06	-0.10	-0.11	-0.11	1.80
MIN	-0.18	-0.18	-0.10	-0.08	-0.12	-0.50	0.04	-0.06	-0.14	-0.15	-0.11	-0.11	-0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.40 M (A.D), AT 13.00 HOURS, ON OCT 13, 1978

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

LEFT BANK ELEVATION — 3.48 M (A.D)

RIGHT BANK ELEVATION — 3.32 M (A.D), DRAINAGE AREA 342 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.04	0.02	0.34	0.00	4.93	0.18	0.04	0.00	0.00	0.00	
2	0.00	0.00	0.04	0.05	0.18	0.00	6.22	0.16	0.04	0.00	0.00	0.00	
3	0.00	0.00	0.04	0.05	0.12	0.00	4.42	0.16	0.04	0.00	0.00	0.00	
4	0.00	0.00	0.04	0.76	0.08	0.00	2.44	0.14	0.04	0.00	0.00	0.00	
5	0.00	0.00	0.03	0.38	0.07	0.00	1.36	0.12	0.04	0.00	0.00	0.00	
6	0.00	0.00	0.03	0.24	0.07	0.00	0.94	0.12	0.04	0.00	0.00	0.00	
7	0.00	0.00	0.04	0.18	0.06	0.00	0.66	0.10	0.04	0.00	0.00	0.00	
8	0.00	0.00	0.04	0.34	0.06	0.00	0.46	0.10	0.04	0.00	0.00	0.00	
9	0.00	0.00	0.04	0.70	0.06	0.00	1.30	0.09	0.04	0.00	0.00	0.00	
10	0.00	0.00	0.04	1.90	0.04	0.00	0.76	0.09	0.04	0.00	0.00	0.00	
11	0.00	0.00	0.04	14.60	0.02	0.00	2.71	0.09	0.04	0.00	0.00	0.00	
12	0.00	0.00	0.03	7.15	0.00	0.00	16.22	0.09	0.03	0.00	0.00	0.00	
13	0.00	0.00	0.02	2.62	0.04	0.00	25.50	0.09	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.02	1.54	0.07	0.00	10.86	0.08	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	7.90	0.05	0.00	4.51	0.08	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	2.98	0.04	0.00	2.89	0.07	0.00	0.00	0.00	0.00	
17	0.00	4.51	0.04	1.24	0.04	0.00	1.78	0.07	0.00	0.00	0.00	0.00	
18	0.00	8.35	0.04	0.62	0.04	0.10	1.30	0.06	0.00	0.00	0.00	0.00	
19	0.00	6.87	0.10	0.34	0.04	1.12	1.00	0.06	0.00	0.00	0.00	0.00	
20	0.00	3.34	0.12	0.24	0.03	2.08	0.70	0.06	0.00	0.00	0.00	0.00	
21	0.00	1.24	0.06	0.20	0.02	0.58	0.54	0.06	0.00	0.00	0.00	0.00	
22	0.00	0.58	0.04	0.42	0.02	1.42	0.42	0.07	0.00	0.00	0.00	0.00	
23	0.00	0.30	0.04	1.84	0.02	12.60	0.34	0.06	0.00	0.00	0.00	0.00	
24	0.00	2.98	0.05	0.82	0.00	5.26	0.28	0.06	0.00	0.00	0.00	0.00	
25	0.00	1.12	0.05	0.38	0.00	6.61	0.26	0.06	0.00	0.00	0.00	0.00	
26	0.00	0.14	0.04	0.24	0.00	22.25	0.26	0.05	0.00	0.00	0.00	0.00	
27	0.00	0.09	0.04	0.18	0.00	7.45	0.22	0.05	0.00	0.00	0.00	0.00	
28	0.00	0.08	0.02	0.14	0.00	4.71	0.22	0.04	0.00	0.00	0.00	0.00	
29	0.00	0.06	0.04	0.09	0.00	4.15	0.22	0.04	0.00	0.00		0.00	
30	0.00	0.05	0.03	0.09	0.00	11.62	0.20	0.04	0.00	0.00		0.00	
31		0.05		0.26	0.00		0.18		0.00	0.00		0.00	
TOTAL	0.00	29.76	1.20	48.51	1.51	79.95	94.10	2.54	0.47	0.00	0.00	0.00	258.04 CMSDAY
MEAN	0.00	0.96	0.04	1.56	0.05	2.66	3.04	0.08	0.02	0.00	0.00	0.00	0.71 CMS
MAX	0.00	8.35	0.12	14.60	0.34	22.25	25.50	0.18	0.04	0.00	0.00	0.00	25.50 CMS
MIN	0.00	0.00	0.00	0.02	0.00	0.00	0.18	0.04	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	2.571	0.104	4.191	0.130	6.908	8.130	0.219	0.041	0.000	0.000	0.000	22.295 MCM

MOMENTARY PEAK 43.50 CMS, AT 2.40 M (A.D), AT 13.00 HOURS, ON OCT 13, 1978

RUNOFF YIELD 2.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 127.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

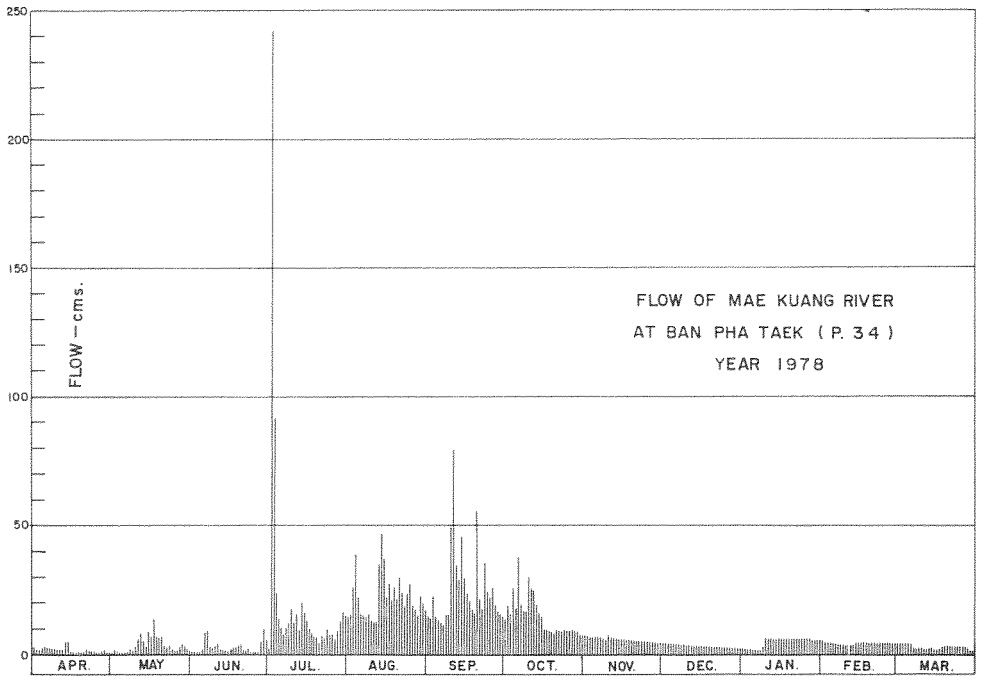
MAE KUANG RIVER AT BAN PHA TAEK, CHIANG MAI (P.34)

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.S.
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 188 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	340.00	339.94	340.04	340.11	340.37	340.37	340.35	340.28	340.19	340.10	340.22	340.18	
2	339.98	340.07	340.02	340.52	340.39	340.37	340.46	340.27	340.18	340.09	340.20	340.18	
3	339.97	340.02	340.00	342.43	340.58	340.52	340.40	340.26	340.18	340.09	340.20	340.18	
4	339.99	339.97	340.00	340.55	340.78	340.37	340.58	340.26	340.18	340.09	340.20	340.17	
5	340.02	339.96	340.07	340.33	340.55	340.34	340.44	340.26	340.18	340.08	340.20	340.17	
6	340.00	339.96	340.31	340.25	340.43	340.32	340.76	340.26	340.18	340.08	340.20	340.15	
7	340.00	339.96	340.33	340.21	340.38	340.30	340.47	340.25	340.18	340.08	340.19	340.12	
8	340.00	340.09	340.17	340.27	340.37	340.41	340.42	340.25	340.17	340.07	340.19	340.12	
9	339.99	340.06	340.12	340.31	340.40	340.41	340.42	340.24	340.16	340.15	340.18	340.12	
10	339.98	340.01	340.16	340.43	340.35	340.86	340.65	340.26	340.16	340.25	340.18	340.12	
11	339.98	340.24	340.18	340.32	340.32	341.21	340.58	340.26	340.16	340.25	340.17	340.12	
12	339.97	340.28	340.10	340.38	340.32	340.73	340.56	340.25	340.16	340.25	340.17	340.12	
13	340.08	340.20	340.07	340.24	340.58	340.64	340.45	340.25	340.15	340.25	340.19	340.11	
14	340.09	340.12	340.05	340.48	340.87	340.86	340.40	340.24	340.15	340.24	340.21	340.11	
15	340.03	340.31	340.04	340.40	340.73	340.66	340.37	340.24	340.14	340.24	340.21	340.09	
16	340.02	340.27	340.10	340.35	340.52	340.56	340.34	340.23	340.14	340.24	340.21	340.08	
17	340.02	340.43	340.13	340.27	340.61	340.50	340.33	340.23	340.14	340.24	340.21	340.08	
18	340.01	340.29	340.13	340.22	340.51	340.43	340.32	340.22	340.14	340.24	340.21	340.12	
19	340.01	340.24	340.15	340.18	340.60	340.40	340.32	340.22	340.14	340.24	340.21	340.15	
20	340.03	340.27	340.15	340.17	340.51	340.97	340.31	340.22	340.14	340.24	340.21	340.15	
21	340.06	340.17	340.11	340.16	340.64	340.50	340.33	340.22	340.14	340.24	340.21	340.15	
22	340.04	340.12	340.06	340.19	340.52	340.44	340.33	340.22	340.13	340.24	340.20	340.14	
23	340.03	340.16	340.08	340.17	340.46	340.73	340.33	340.22	340.13	340.24	340.20	340.14	
24	340.03	340.09	340.02	340.26	340.55	340.58	340.34	340.22	340.12	340.24	340.19	340.14	
25	340.02	340.06	340.01	340.20	340.60	340.52	340.33	340.21	340.12	340.24	340.19	340.13	
26	340.01	340.04	340.01	340.20	340.46	340.58	340.33	340.21	340.12	340.24	340.19	340.13	
27	340.02	340.13	340.03	340.17	340.42	340.47	340.34	340.21	340.11	340.24	340.18	340.13	
28	340.06	340.18	340.18	340.23	340.38	340.42	340.33	340.20	340.11	340.23	340.18	340.11	
29	340.03	340.13	340.34	340.33	340.53	340.39	340.32	340.20	340.11	340.23		340.05	
30	339.96	340.09	340.19	340.41	340.47	340.36	340.29	340.19	340.10	340.23		340.05	
31		340.05		340.38	340.42		340.28		340.10	340.23		340.04	
MEAN	340.01	340.13	340.11	340.36	340.50	340.54	340.40	340.24	340.15	340.20	340.20	340.12	
MAX	340.09	340.43	340.34	342.43	340.87	341.21	340.76	340.28	340.19	340.25	340.22	340.18	342.43
MIN	339.96	339.94	340.00	340.11	340.32	340.30	340.28	340.19	340.10	340.07	340.17	340.04	339.94

ANNUAL MAX MOMENTARY GAGE HEIGHT 343.05 M (MSL), AT 8.00 HOURS, ON JUL 3, 1978
ZERO GAGE AT BOTTOM ELEVATION 339.35 M (MSL), RIVER BED 339.51 M (MSL)
LEFT BANK ELEVATION 347.20 M (MSL)
RIGHT BANK ELEVATION 346.79 M (MSL), DRAINAGE AREA 566 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.30	0.20	1.10	2.25	14.65	14.65	13.75	7.30	4.25	2.00	5.20	4.00	
2	2.00	1.55	0.80	18.88	15.55	14.65	19.00	6.95	4.00	1.85	4.50	4.00	
3	1.85	0.80	0.50	241.79	25.64	22.16	16.00	6.60	4.00	1.85	4.50	4.00	
4	2.15	0.35	0.50	23.90	38.60	14.65	25.64	6.60	4.00	1.85	4.50	3.75	
5	2.80	0.30	1.55	12.85	23.90	13.30	18.00	6.60	4.00	1.70	4.50	3.75	
6	2.30	0.30	8.40	9.50	17.50	12.40	37.20	6.60	4.00	1.70	4.50	3.25	
7	2.30	0.30	9.20	7.90	15.10	11.50	19.50	6.25	4.00	1.70	4.25	2.50	
8	2.30	1.85	3.75	10.30	14.65	16.50	17.00	6.25	3.75	1.55	4.25	2.50	
9	2.15	1.40	2.50	11.95	16.00	16.50	17.00	5.90	3.50	3.25	4.00	2.50	
10	2.00	0.65	3.50	17.50	13.75	45.39	29.90	7.30	3.50	6.25	4.00	2.50	
11	2.00	5.90	4.00	12.40	12.40	79.10	25.64	6.60	3.50	6.25	3.75	2.50	
12	1.85	7.30	2.00	15.10	12.40	35.10	24.48	6.25	3.50	6.25	3.75	2.50	
13	4.30	4.50	1.55	9.10	25.64	29.28	18.50	6.25	3.25	6.25	4.25	2.25	
14	4.55	2.50	1.25	20.00	46.30	45.39	16.00	5.90	3.25	5.90	4.85	2.25	
15	0.95	8.40	1.10	16.00	35.10	30.52	14.65	5.90	3.00	5.90	4.85	1.85	
16	0.80	6.95	2.00	13.75	22.16	24.48	9.60	5.55	3.00	5.90	4.85	1.70	
17	0.80	13.68	2.75	10.30	27.42	21.00	9.20	5.55	3.00	5.90	4.85	1.70	
18	0.65	7.65	2.75	8.30	21.58	17.50	8.80	5.20	3.00	5.90	4.85	2.50	
19	0.65	5.90	3.25	6.96	26.80	16.00	8.80	5.20	3.00	5.90	4.85	3.25	
20	0.95	6.95	3.25	6.69	21.58	55.30	8.40	5.20	3.00	5.90	4.85	3.25	
21	1.40	3.75	2.25	6.42	29.28	21.00	9.20	5.20	3.00	5.90	4.85	3.25	
22	1.10	2.50	1.40	7.23	22.16	18.00	9.20	5.20	2.75	5.90	4.50	3.00	
23	0.95	3.50	1.70	6.69	19.00	35.10	9.20	5.20	2.75	5.90	4.50	3.00	
24	0.95	1.85	0.80	9.90	23.90	25.64	9.60	5.20	2.50	5.90	4.25	3.00	
25	0.80	1.40	0.65	7.50	26.80	22.16	9.20	4.85	2.50	5.90	4.25	2.75	
26	0.65	1.10	0.65	7.50	19.00	25.64	9.20	4.85	2.50	5.90	4.25	2.75	
27	0.80	2.75	0.95	6.69	17.00	19.50	9.60	4.85	2.25	5.90	4.00	2.75	
28	1.40	4.00	4.00	8.70	15.10	17.00	9.20	4.50	2.25	5.55	4.00	2.25	
29	0.95	2.75	9.60	12.85	22.74	15.55	8.80	4.50	2.25	5.55		1.25	
30	0.30	1.85	4.25	16.50	19.50	14.20	7.65	4.25	2.00	5.55		1.25	
31		1.25		15.10	17.00		7.30		2.00	5.55		1.10	
TOTAL	48.95	104.13	81.95	580.50	678.20	749.16	455.21	172.55	97.25	147.25	124.50	82.85	3322.50 CMSDAY
MEAN	1.63	3.36	2.73	18.73	21.88	24.97	14.68	5.75	3.14	4.75	4.45	2.67	9.10 CMS
MAX	4.55	13.68	9.60	241.79	46.30	79.10	37.20	7.30	4.25	6.25	5.20	4.00	241.79 CMS
MIN	0.30	0.20	0.50	2.25	12.40	11.50	7.30	4.25	2.00	1.55	3.75	1.10	0.20 CMS
RUNOFF	4.229	8.997	7.080	50.155	58.596	64.727	39.330	14.908	8.402	12.722	10.757	7.158	287.064 MCM

MOMENTARY PEAK 344.83 CMS, AT 343.05 M (MSL), AT 8.00 HOURS, ON JUL 3, 1978

RUNOFF YIELD 16.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 609.23 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 221 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR 4- MAY 13,1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

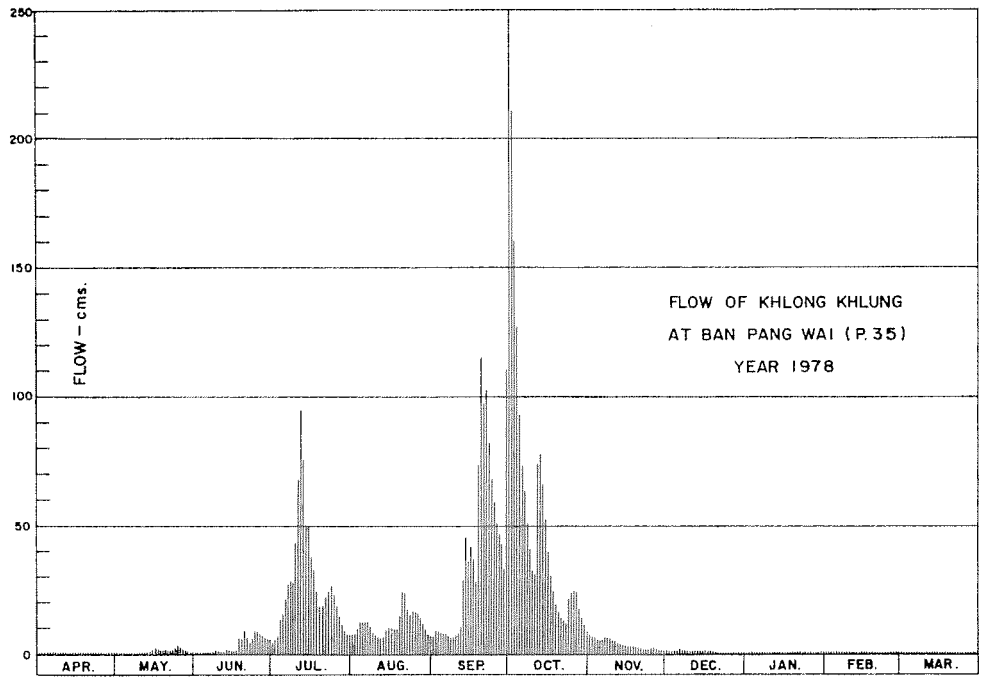
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.10	0.45	0.91	1.17	1.09	5.12	1.20	0.65	0.46	0.31	0.25	
2	0.16	0.07	0.45	1.01	1.20	1.28	4.47	1.15	0.63	0.45	0.30	0.26	
3	0.15	0.07	0.43	1.17	1.31	1.26	3.99	1.11	0.63	0.45	0.31	0.27	
4	0.15	0.09	0.39	1.48	1.46	1.22	3.44	1.08	0.61	0.45	0.31	0.27	
5	0.15	0.07	0.36	1.61	1.45	1.23	3.07	1.04	0.62	0.45	0.31	0.27	
6	0.15	0.09	0.35	1.79	1.46	1.18	2.95	1.04	0.68	0.45	0.32	0.26	
7	0.15	0.08	0.33	1.98	1.45	1.15	2.73	1.11	0.65	0.44	0.31	0.25	
8	0.15	0.06	0.35	2.01	1.34	1.09	2.54	1.11	0.62	0.45	0.29	0.24	
9	0.15	0.05	0.59	1.99	1.22	1.07	2.33	1.06	0.62	0.45	0.30	0.24	
10	0.15	0.08	0.52	2.30	1.14	1.14	2.14	1.03	0.60	0.42	0.29	0.25	
11	0.15	0.13	0.51	2.81	1.09	1.24	2.08	0.98	0.59	0.42	0.27	0.24	
12	0.14	0.13	0.48	3.21	1.06	1.41	2.90	0.94	0.60	0.42	0.27	0.24	
13	0.15	0.13	0.64	2.86	1.13	2.13	2.95	0.91	0.59	0.41	0.27	0.23	
14	0.15	0.19	0.62	2.50	1.28	2.41	2.77	0.88	0.58	0.40	0.27	0.23	
15	0.15	0.61	0.59	2.50	1.34	2.22	2.54	0.87	0.58	0.40	0.26	0.23	
16	0.13	0.73	0.55	2.30	1.35	2.34	2.32	0.84	0.57	0.40	0.25	0.23	
17	0.11	0.66	0.52	2.17	1.30	2.26	2.08	0.83	0.56	0.39	0.25	0.23	
18	0.09	0.65	1.04	1.96	1.30	2.00	1.88	0.83	0.55	0.38	0.25	0.23	
19	0.08	0.66	1.06	1.73	1.53	2.67	1.72	0.81	0.53	0.38	0.25	0.22	
20	0.08	0.66	1.24	1.61	1.89	3.51	1.61	0.76	0.53	0.38	0.25	0.22	
21	0.09	0.58	1.10	1.78	1.88	3.26	1.54	0.73	0.52	0.38	0.25	0.21	
22	0.06	0.62	0.91	1.84	1.70	3.32	1.48	0.71	0.51	0.37	0.25	0.21	
23	0.05	0.67	1.05	1.88	1.58	3.02	1.42	0.71	0.51	0.37	0.25	0.21	
24	0.15	0.72	1.24	1.95	1.64	2.87	1.79	0.72	0.50	0.37	0.24	0.22	
25	0.14	0.81	1.25	1.85	1.62	2.67	1.88	0.73	0.49	0.38	0.24	0.22	
26	0.13	0.76	1.20	1.70	1.63	2.54	1.90	0.73	0.49	0.35	0.24	0.21	
27	0.13	0.66	1.13	1.52	1.53	2.41	1.76	0.69	0.49	0.35	0.24	0.21	
28	0.12	0.55	1.10	1.39	1.43	2.35	1.62	0.67	0.49	0.35	0.24	0.21	
29	0.11	0.55	1.10	1.26	1.31	2.37	1.50	0.65	0.48	0.34		0.21	
30	0.10	0.51	1.04	1.19	1.20	3.05	1.38	0.65	0.47	0.33		0.20	
31		0.47		1.18	1.11		1.27		0.47	0.32		0.20	
MEAN	0.13	0.39	0.75	1.85	1.39	2.06	2.36	0.89	0.56	0.40	0.27	0.23	
MAX	0.16	0.81	1.25	3.21	1.89	3.51	5.12	1.20	0.68	0.46	0.32	0.27	5.12
MIN	0.05	0.05	0.33	0.91	1.06	1.07	1.27	0.65	0.47	0.32	0.24	0.20	0.05

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.73 M (A.D), AT 5.00 HOURS, ON OCT 1, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.00	0.60	4.30	7.58	6.46	253.60	8.00	1.80	0.64	0.26	0.16	
2	0.02	0.00	0.60	5.34	8.00	9.44	191.36	7.30	1.64	0.60	0.24	0.18	
3	0.00	0.00	0.52	7.58	9.98	9.08	152.02	6.74	1.64	0.60	0.26	0.19	
4	0.00	0.00	0.38	13.20	12.80	8.36	110.88	6.32	1.48	0.60	0.26	0.19	
5	0.00	0.00	0.34	16.28	12.60	8.54	84.90	5.76	1.56	0.60	0.26	0.19	
6	0.00	0.00	0.32	21.32	12.80	7.72	76.80	5.76	2.04	0.60	0.27	0.18	
7	0.00	0.00	0.29	27.36	12.60	7.30	63.20	6.74	1.80	0.56	0.26	0.16	
8	0.00	0.00	0.32	28.40	10.52	6.46	52.24	6.74	1.56	0.60	0.22	0.14	
9	0.00	0.00	1.34	27.68	8.36	6.18	41.44	6.04	1.56	0.60	0.24	0.14	
10	0.00	0.00	0.92	40.00	7.16	7.16	33.60	5.62	1.40	0.48	0.22	0.16	
11	0.00	0.00	0.86	68.02	6.46	8.72	31.20	5.00	1.34	0.48	0.19	0.14	
12	0.00	0.00	0.72	94.70	6.04	11.80	73.60	4.60	1.40	0.48	0.19	0.14	
13	0.00	0.00	1.72	71.12	7.02	33.20	76.80	4.30	1.34	0.44	0.19	0.13	
14	0.00	0.06	1.56	50.00	9.44	45.32	65.60	4.00	1.28	0.40	0.19	0.13	
15	0.00	1.48	1.34	50.00	10.52	36.80	52.24	3.90	1.28	0.40	0.18	0.13	
16	0.00	2.50	1.10	40.00	10.70	41.92	40.96	3.60	1.22	0.40	0.16	0.13	
17	0.00	1.88	0.92	34.80	9.80	38.40	31.20	3.50	1.16	0.38	0.16	0.13	
18	0.00	1.80	5.76	26.72	9.80	28.00	24.16	3.50	1.10	0.37	0.16	0.13	
19	0.00	1.88	6.04	19.64	14.32	59.66	19.36	3.30	0.98	0.37	0.16	0.11	
20	0.00	1.88	8.72	16.28	24.48	115.94	16.28	2.80	0.98	0.37	0.16	0.11	
21	0.00	1.28	6.60	21.04	24.16	98.20	14.56	2.50	0.92	0.37	0.16	0.10	
22	0.00	1.56	4.30	22.88	18.80	102.40	13.20	2.30	0.86	0.35	0.16	0.10	
23	0.00	1.96	5.90	24.16	15.52	81.40	12.00	2.30	0.86	0.35	0.16	0.10	
24	0.00	2.40	8.72	26.40	17.12	71.74	21.32	2.40	0.80	0.35	0.14	0.11	
25	0.00	3.30	8.90	23.20	16.56	59.66	24.16	2.50	0.76	0.37	0.14	0.11	
26	0.00	2.80	8.00	18.80	16.84	52.24	24.80	2.50	0.76	0.32	0.14	0.10	
27	0.00	1.88	7.02	14.08	14.32	45.32	20.48	2.12	0.76	0.32	0.14	0.10	
28	0.00	1.10	6.60	11.42	12.20	42.40	16.56	1.96	0.76	0.32	0.14	0.10	
29	0.00	1.10	6.60	9.08	9.98	43.36	13.60	1.80	0.72	0.30		0.10	
30	0.00	0.86	5.76	7.86	8.00	83.50	11.24	1.80	0.68	0.29		0.08	
31		0.68		7.72	6.74		9.26		0.68	0.27		0.08	
TOTAL	0.04	30.40	102.77	849.38	371.22	1176.68	1672.62	125.70	37.12	13.58	5.41	4.05	4388.96 CMSDAY
MEAN	0.00	0.98	3.43	27.40	11.97	39.22	53.96	4.19	1.20	0.44	0.19	0.13	12.02 CMS
MAX	0.02	3.30	8.90	94.70	24.48	115.94	253.60	8.00	2.04	0.64	0.27	0.19	253.60 CMS
MIN	0.00	0.00	0.29	4.30	6.04	6.18	9.26	1.80	0.68	0.27	0.14	0.08	0.00 CMS
RUNOFF	0.003	2.627	8.879	73.386	32.073	101.665	144.514	10.860	3.207	1.173	0.467	0.350	379.206 MCM

MOMENTARY PEAK 319.60 CMS, AT 5.73 M (A.D), AT 5.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 16.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 437.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

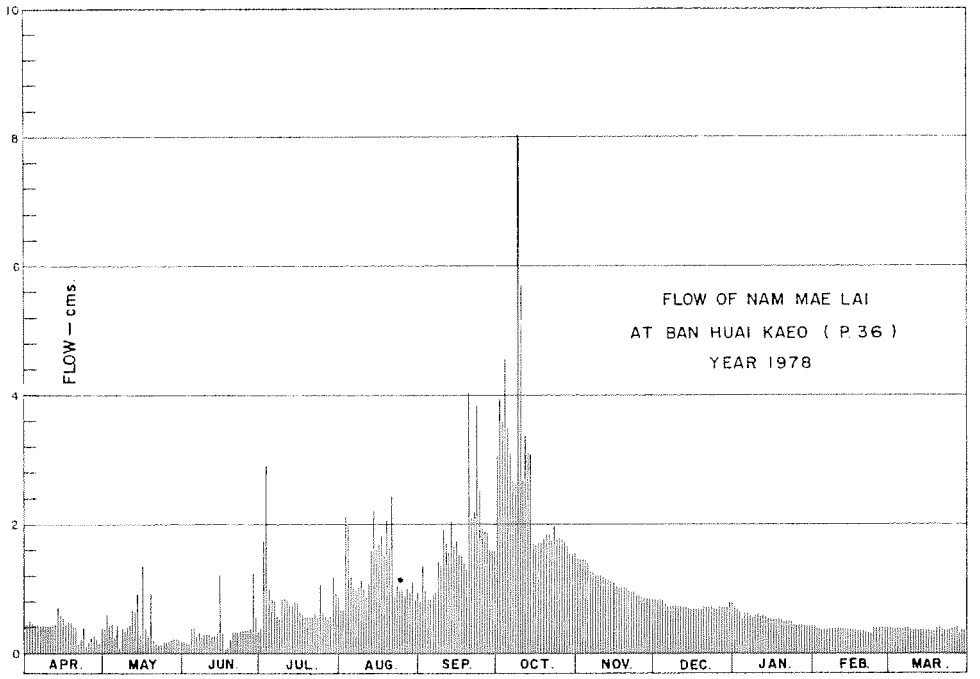
NAM MAE LAI AT BAN HUAI KAEO, CHIANG MAI (P.36)

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 AT	+558.80 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
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	RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 136 DISCHARGE MEASUREMENTS MADE IN 1978.
REMARKS	USE GAGE HEIGHT MAE LAI ONLY AND INCLUDING FLOW IN RIGHT BANK IRRIGATION CANAL.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	559.28	559.23	559.32	559.33	559.41	559.39	559.31	559.54	559.43	559.44	559.51	559.29	
2	559.32	559.34	559.31	559.57	559.41	559.52	559.41	559.54	559.45	559.42	559.51	559.29	
3	559.31	559.27	559.31	559.74	559.65	559.42	559.39	559.54	559.45	559.41	559.51	559.30	
4	559.30	559.30	559.33	559.50	559.63	559.39	559.46	559.54	559.45	559.39	559.51	559.31	
5	559.29	559.35	559.33	559.46	559.51	559.37	559.38	559.53	559.44	559.39	559.52	559.29	
6	559.29	559.26	559.35	559.44	559.47	559.40	559.36	559.51	559.43	559.40	559.52	559.28	
7	559.27	559.26	559.37	559.39	559.46	559.42	559.32	559.51	559.43	559.40	559.52	559.29	
8	559.27	559.39	559.35	559.37	559.47	559.55	559.30	559.50	559.43	559.39	559.52	559.31	
9	559.28	559.37	559.36	559.46	559.49	559.54	559.59	559.50	559.43	559.39	559.52	559.32	
10	559.25	559.40	559.36	559.44	559.46	559.62	559.48	559.50	559.43	559.38	559.52	559.32	
11	559.24	559.41	559.36	559.44	559.42	559.58	559.31	559.50	559.43	559.36	559.52	559.32	
12	559.30	559.47	559.35	559.43	559.45	559.56	559.36	559.49	559.43	559.36	559.52	559.32	
13	559.40	559.38	559.35	559.41	559.58	559.63	559.34	559.49	559.43	559.36	559.52	559.29	
14	559.37	559.45	559.38	559.43	559.66	559.57	559.37	559.48	559.42	559.35	559.52	559.28	
15	559.36	559.36	559.50	559.43	559.57	559.57	559.56	559.48	559.42	559.35	559.52	559.28	
16	559.31	559.59	559.29	559.40	559.58	559.54	559.56	559.47	559.42	559.35	559.52	559.29	
17	559.32	559.39	559.25	559.40	559.60	559.54	559.57	559.47	559.42	559.34	559.52	559.29	
18	559.32	559.35	559.24	559.39	559.56	559.53	559.57	559.47	559.42	559.34	559.51	559.30	
19	559.27	559.52	559.32	559.38	559.64	559.52	559.58	559.47	559.42	559.34	559.51	559.30	
20	559.29	559.34	559.37	559.38	559.59	559.42	559.59	559.47	559.43	559.33	559.51	559.30	
21	559.30	559.31	559.37	559.38	559.70	559.26	559.59	559.46	559.43	559.33	559.49	559.30	
22	559.32	559.30	559.37	559.40	559.43	559.27	559.58	559.45	559.43	559.33	559.45	559.28	
23	559.25	559.30	559.38	559.38	559.49	559.41	559.61	559.45	559.43	559.33	559.46	559.27	
24	559.29	559.32	559.38	559.50	559.46	559.28	559.59	559.44	559.42	559.32	559.54	559.28	
25	559.31	559.32	559.38	559.40	559.48	559.24	559.59	559.44	559.42	559.32	559.52	559.28	
26	559.32	559.32	559.38	559.37	559.41	559.25	559.58	559.44	559.43	559.32	559.43	559.29	
27	559.36	559.33	559.39	559.37	559.45	559.25	559.58	559.43	559.43	559.32	559.54	559.29	
28	559.33	559.34	559.57	559.38	559.44	559.21	559.57	559.43	559.43	559.32	559.54	559.30	
29	559.29	559.34	559.45	559.52	559.47	559.21	559.55	559.43	559.43	559.32		559.29	
30	559.21	559.33	559.37	559.47	559.40	559.21	559.55	559.43	559.45	559.32		559.29	
31		559.32		559.46	559.43		559.55		559.45	559.32		559.29	
MEAN	559.30	559.35	559.36	559.43	559.51	559.42	559.49	559.48	559.43	559.36	559.51	559.29	
MAX	559.40	559.59	559.57	559.74	559.70	559.63	559.61	559.54	559.45	559.44	559.54	559.32	559.74
MIN	559.21	559.23	559.24	559.33	559.40	559.21	559.30	559.43	559.42	559.32	559.43	559.27	559.21

ANNUAL MAX MOMENTARY GAGE HEIGHT 560.26 M (MSL), AT 17.00 HOURS, ON AUG 21, 1978
ZERO GAGE AT BOTTOM ELEVATION 558.80 M (MSL), RIVER BED 558.60 M (MSL)
LEFT BANK ELEVATION 563.89 M (MSL)
RIGHT BANK ELEVATION 570.00 M (MSL), DRAINAGE AREA 35 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.38	0.18	0.39	0.67	0.83	2.67	1.47	0.83	0.76	0.40	0.40	
2	0.48	0.62	0.15	1.39	0.66	1.35	3.93	1.47	0.81	0.68	0.40	0.39	
3	0.46	0.42	0.15	2.90	2.12	0.97	3.58	1.46	0.91	0.64	0.37	0.38	
4	0.42	0.46	0.40	1.01	1.99	0.86	4.54	1.45	0.81	0.54	0.37	0.39	
5	0.44	0.26	0.40	0.84	1.22	0.81	3.39	1.38	0.76	0.61	0.38	0.38	
6	0.41	0.43	0.26	0.81	1.02	0.88	3.09	1.26	0.72	0.61	0.38	0.38	
7	0.40	0.08	0.32	0.60	0.98	0.93	2.69	1.26	0.72	0.60	0.38	0.38	
8	0.41	0.37	0.26	0.54	1.02	1.41	2.62	1.20	0.72	0.57	0.38	0.40	
9	0.40	0.32	0.29	0.83	1.12	1.34	7.04	1.20	0.72	0.61	0.37	0.36	
10	0.41	0.40	0.29	0.84	1.02	1.91	5.12	1.19	0.72	0.63	0.38	0.36	
11	0.43	0.44	0.29	0.83	0.85	1.66	2.70	1.19	0.72	0.58	0.38	0.37	
12	0.46	0.68	0.26	0.78	0.98	1.55	3.37	1.14	0.72	0.58	0.38	0.37	
13	0.70	0.65	0.26	0.69	1.68	2.03	3.11	1.13	0.72	0.58	0.38	0.37	
14	0.59	0.89	0.34	0.80	2.21	1.65	3.50	1.09	0.69	0.55	0.38	0.38	
15	0.55	0.29	1.21	0.77	1.63	1.68	1.68	1.09	0.69	0.55	0.37	0.38	
16	0.45	1.34	0.37	0.64	1.67	1.52	1.68	1.03	0.69	0.55	0.36	0.37	
17	0.48	0.37	0.07	0.62	1.83	1.50	1.71	1.02	0.69	0.52	0.36	0.36	
18	0.46	0.26	0.06	0.59	1.52	1.43	1.71	1.02	0.69	0.52	0.35	0.35	
19	0.41	0.92	0.18	0.56	2.04	1.31	1.77	1.02	0.69	0.52	0.35	0.40	
20	0.40	0.23	0.32	0.56	1.63	4.02	1.83	1.02	0.73	0.49	0.35	0.41	
21	0.12	0.15	0.32	0.56	2.43	2.08	1.84	0.98	0.72	0.49	0.33	0.40	
22	0.18	0.12	0.32	0.63	0.87	2.18	1.75	0.94	0.72	0.49	0.31	0.36	
23	0.40	0.12	0.34	0.56	1.04	3.84	1.95	0.94	0.72	0.48	0.32	0.37	
24	0.11	0.18	0.34	1.05	0.96	2.35	1.78	0.90	0.68	0.44	0.39	0.37	
25	0.15	0.18	0.34	0.64	0.98	1.93	1.79	0.90	0.68	0.44	0.38	0.38	
26	0.18	0.18	0.34	0.55	0.88	1.87	1.73	0.90	0.72	0.44	0.40	0.39	
27	0.29	0.20	0.37	0.54	0.99	1.86	1.72	0.86	0.72	0.44	0.40	0.39	
28	0.20	0.23	1.22	0.57	0.91	1.60	1.66	0.85	0.72	0.43	0.40	0.33	
29	0.11	0.23	0.60	1.19	1.09	1.59	1.54	0.85	0.72	0.42		0.36	
30	0.39	0.20	0.32	0.93	0.83	1.58	1.54	0.85	0.80	0.44		0.36	
31		0.18		0.89	0.94		1.54		0.80	0.44		0.36	
TOTAL	11.33	11.78	10.57	25.10	39.78	50.52	80.57	33.06	22.65	16.64	10.40	11.65	324.05 CMSDAY
MEAN	0.38	0.38	0.35	0.81	1.28	1.68	2.60	1.10	0.73	0.54	0.37	0.38	0.89 CMS
MAX	0.70	1.34	1.22	2.90	2.43	4.02	7.04	1.47	0.83	0.76	0.40	0.41	7.04 CMS
MIN	0.11	0.08	0.06	0.39	0.66	0.81	1.54	0.85	0.68	0.42	0.31	0.33	0.06 CMS
RUNOFF	0.979	1.018	0.913	2.169	3.437	4.365	6.961	2.856	1.957	1.438	0.899	1.007	27.998 MCM

MOMENTARY PEAK 36.00 CMS, AT 560.26 M (MSL), AT 17.00 HOURS, ON AUG 21, 1978
RUNOFF YIELD 25.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1028.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 POOR. STAGE-DISCHARGE RELATION DEFINED BY 103 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

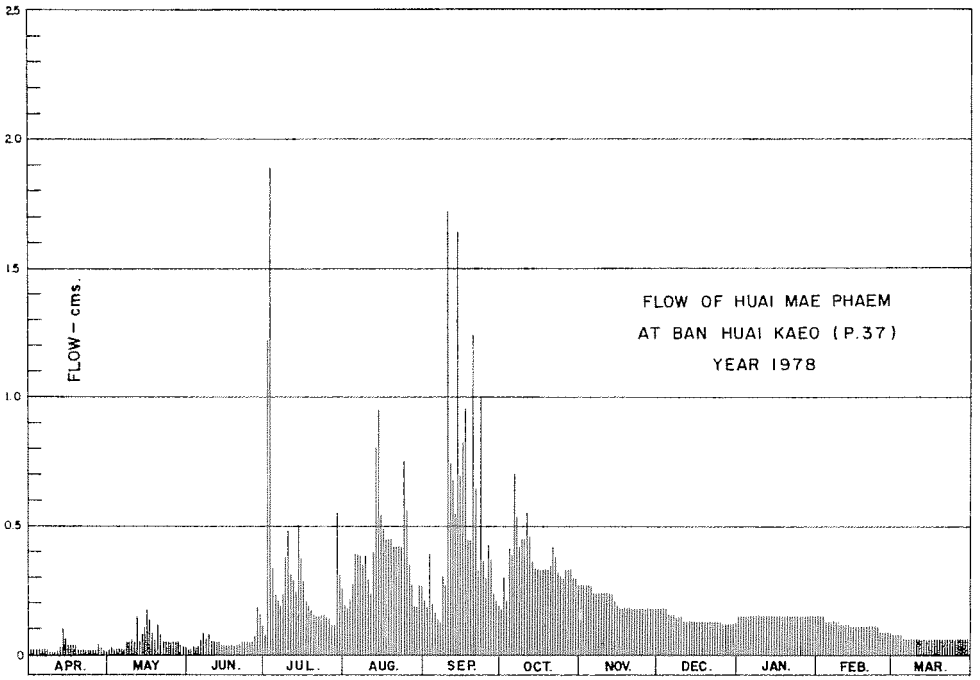
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	527.62	527.61	527.63	527.71	527.79	527.80	527.78	527.82	527.78	527.76	527.76	527.71	
2	527.62	527.64	527.63	527.94	527.78	527.79	527.83	527.82	527.78	527.76	527.76	527.71	
3	527.62	527.62	527.64	528.11	527.80	527.86	527.80	527.82	527.78	527.76	527.76	527.71	
4	527.62	527.62	527.64	527.85	527.82	527.80	527.87	527.82	527.78	527.76	527.75	527.71	
5	527.62	527.62	527.65	527.81	527.86	527.78	527.86	527.82	527.77	527.76	527.75	527.70	
6	527.62	527.62	527.70	527.80	527.86	527.76	527.94	527.81	527.77	527.76	527.75	527.70	
7	527.62	527.62	527.72	527.79	527.86	527.75	527.89	527.81	527.77	527.76	527.75	527.70	
8	527.61	527.67	527.70	527.81	527.85	527.83	527.87	527.81	527.76	527.76	527.75	527.70	
9	527.61	527.67	527.71	527.84	527.86	527.82	527.88	527.81	527.76	527.76	527.75	527.70	
10	527.61	527.70	527.70	527.89	527.83	528.09	527.88	527.81	527.76	527.76	527.74	527.71	
11	527.61	527.68	527.68	527.84	527.81	527.95	527.91	527.81	527.75	527.76	527.74	527.71	
12	527.66	527.76	527.67	527.83	527.84	527.93	527.88	527.81	527.75	527.76	527.74	527.71	
13	527.73	527.67	527.67	527.81	527.96	527.91	527.85	527.81	527.75	527.76	527.74	527.71	
14	527.69	527.71	527.66	527.90	527.99	528.08	527.84	527.80	527.75	527.76	527.73	527.70	
15	527.66	527.73	527.66	527.85	527.91	527.94	527.84	527.79	527.75	527.76	527.73	527.70	
16	527.66	527.78	527.66	527.83	527.89	527.97	527.84	527.78	527.75	527.76	527.73	527.70	
17	527.65	527.75	527.66	527.80	527.88	527.99	527.84	527.78	527.75	527.76	527.73	527.70	
18	527.65	527.72	527.66	527.79	527.88	527.88	527.84	527.78	527.75	527.76	527.73	527.71	
19	527.63	527.92	527.66	527.78	527.88	527.88	527.84	527.78	527.75	527.76	527.73	527.71	
20	527.63	527.74	527.66	527.77	527.87	528.03	527.84	527.78	527.75	527.76	527.73	527.70	
21	527.63	527.71	527.66	527.76	527.87	527.93	527.87	527.78	527.75	527.76	527.73	527.70	
22	527.63	527.68	527.67	527.76	527.87	527.84	527.86	527.78	527.75	527.76	527.73	527.70	
23	527.62	527.68	527.67	527.76	527.87	528.00	527.84	527.78	527.75	527.76	527.73	527.70	
24	527.62	527.68	527.67	527.77	527.95	527.85	527.83	527.78	527.75	527.76	527.73	527.70	
25	527.62	527.67	527.67	527.76	527.92	527.83	527.83	527.78	527.75	527.76	527.72	527.70	
26	527.62	527.67	527.68	527.76	527.85	527.87	527.84	527.78	527.74	527.76	527.72	527.70	
27	527.65	527.68	527.71	527.74	527.83	527.84	527.84	527.78	527.74	527.76	527.72	527.70	
28	527.64	527.67	527.79	527.74	527.79	527.81	527.84	527.78	527.74	527.76	527.72	527.70	
29	527.63	527.66	527.77	527.91	527.79	527.80	527.83	527.78	527.74	527.76		527.70	
30	527.61	527.65	527.74	527.84	527.82	527.79	527.83	527.78	527.74	527.76		527.70	
31		527.64		527.82	527.82		527.82		527.74	527.76		527.70	
MEAN	527.63	527.68	527.68	527.82	527.86	527.88	527.85	527.80	527.75	527.76	527.74	527.70	
MAX	527.73	527.92	527.79	528.11	527.99	528.09	527.94	527.82	527.78	527.76	527.76	527.71	528.11
MIN	527.61	527.61	527.63	527.71	527.78	527.75	527.78	527.78	527.74	527.76	527.72	527.70	527.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 528.37 M (MSL), AT 17.00 HOURS, ON SEP 14, 1978

ZERO GAGE AT BOTTOM ELEVATION 527.23 M (MSL), RIVER BED 527.58 M (MSL)

LEFT BANK ELEVATION 531.39 M (MSL)

RIGHT BANK ELEVATION 531.66 M (MSL), DRAINAGE AREA 14 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.01	0.02	0.08	0.19	0.21	0.18	0.27	0.18	0.15	0.15	0.08	
2	0.02	0.03	0.02	0.70	0.18	0.19	0.30	0.27	0.18	0.15	0.15	0.08	
3	0.02	0.02	0.03	1.89	0.21	0.39	0.21	0.27	0.18	0.15	0.15	0.08	
4	0.02	0.02	0.03	0.36	0.27	0.21	0.42	0.27	0.18	0.15	0.13	0.08	
5	0.02	0.02	0.04	0.24	0.39	0.18	0.39	0.27	0.16	0.15	0.13	0.06	
6	0.02	0.02	0.06	0.21	0.39	0.15	0.70	0.24	0.16	0.15	0.13	0.06	
7	0.02	0.02	0.09	0.19	0.39	0.13	0.48	0.24	0.16	0.15	0.13	0.06	
8	0.01	0.05	0.06	0.24	0.36	0.30	0.42	0.24	0.15	0.15	0.13	0.06	
9	0.01	0.05	0.08	0.33	0.39	0.27	0.45	0.24	0.15	0.15	0.13	0.06	
10	0.01	0.06	0.06	0.48	0.30	1.72	0.45	0.24	0.15	0.15	0.12	0.08	
11	0.01	0.05	0.05	0.33	0.24	0.75	0.55	0.24	0.13	0.15	0.12	0.08	
12	0.04	0.15	0.05	0.30	0.33	0.65	0.45	0.24	0.13	0.15	0.12	0.08	
13	0.11	0.05	0.05	0.24	0.80	0.55	0.36	0.24	0.13	0.15	0.12	0.08	
14	0.06	0.08	0.04	0.50	0.95	1.64	0.33	0.21	0.13	0.15	0.11	0.06	
15	0.04	0.11	0.04	0.36	0.55	0.70	0.33	0.19	0.13	0.15	0.11	0.06	
16	0.04	0.18	0.04	0.30	0.48	0.85	0.33	0.18	0.13	0.15	0.11	0.06	
17	0.04	0.13	0.04	0.21	0.45	0.95	0.33	0.18	0.13	0.15	0.11	0.06	
18	0.04	0.09	0.04	0.19	0.45	0.45	0.33	0.18	0.13	0.15	0.11	0.08	
19	0.02	0.60	0.04	0.18	0.45	0.45	0.33	0.18	0.13	0.15	0.11	0.08	
20	0.02	0.12	0.04	0.16	0.42	1.24	0.33	0.18	0.13	0.15	0.11	0.06	
21	0.02	0.08	0.04	0.15	0.42	0.65	0.42	0.18	0.13	0.15	0.11	0.06	
22	0.02	0.05	0.05	0.15	0.42	0.33	0.39	0.18	0.13	0.15	0.11	0.06	
23	0.02	0.05	0.05	0.15	0.42	1.00	0.33	0.18	0.13	0.15	0.11	0.06	
24	0.02	0.05	0.05	0.16	0.75	0.36	0.30	0.18	0.13	0.15	0.11	0.06	
25	0.02	0.05	0.05	0.15	0.60	0.30	0.30	0.18	0.13	0.15	0.09	0.06	
26	0.02	0.05	0.05	0.15	0.36	0.42	0.33	0.18	0.12	0.15	0.09	0.06	
27	0.04	0.05	0.08	0.12	0.30	0.33	0.33	0.18	0.12	0.15	0.09	0.06	
28	0.03	0.05	0.19	0.12	0.19	0.24	0.33	0.18	0.12	0.15	0.09	0.06	
29	0.02	0.04	0.16	0.55	0.19	0.21	0.30	0.18	0.12	0.15		0.06	
30	0.01	0.04	0.12	0.33	0.27	0.19	0.30	0.18	0.12	0.15		0.06	
31		0.03		0.27	0.27		0.27		0.12	0.15		0.06	
TOTAL	0.81	2.40	1.76	9.79	12.38	16.01	11.27	6.37	4.32	4.65	3.28	2.06	75.10 CMSD
MEAN	0.03	0.08	0.06	0.32	0.40	0.53	0.36	0.21	0.14	0.15	0.12	0.07	0.21 CMS
MAX	0.11	0.60	0.19	1.89	0.95	1.72	0.70	0.27	0.18	0.15	0.15	0.08	1.89 CMS
MIN	0.01	0.01	0.02	0.08	0.18	0.13	0.18	0.18	0.12	0.15	0.09	0.06	0.01 CMS
RUNOFF	0.070	0.207	0.152	0.846	1.070	1.383	0.974	0.550	0.373	0.402	0.283	0.178	6.489 MCM

MOMENTARY PEAK 4.93 CMS, AT 528.37 M (MSL), AT 17.00 HOURS, ON SEP 14, 1978
RUNOFF YIELD 14.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 352.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PING RIVER BASIN

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

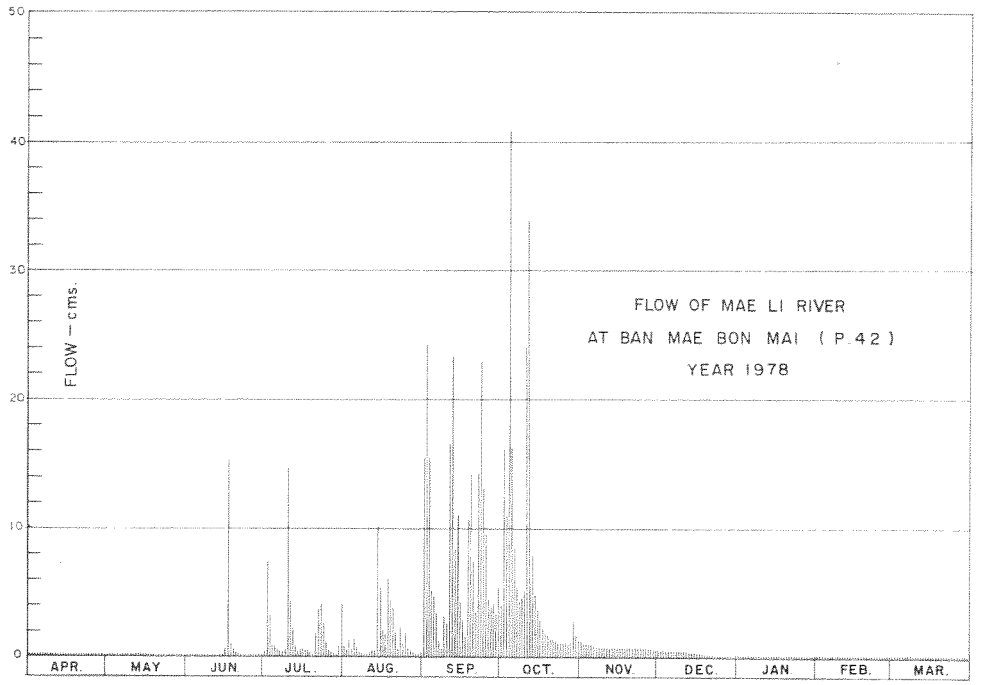
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 124 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	500.30	500.31	500.35	500.37	500.75	500.96	501.02	500.80	500.68	500.41	500.40	500.35	
2	500.30	500.32	500.34	501.23	500.65	502.00	501.64	500.76	500.68	500.41	500.40	500.50	
3	500.30	500.31	500.34	500.98	500.80	501.52	501.41	500.76	500.67	500.41	500.40	500.44	
4	500.30	500.31	500.34	500.76	500.70	501.11	502.62	500.76	500.66	500.41	500.40	500.42	
5	500.30	500.30	500.35	500.75	500.82	501.08	501.48	500.75	500.65	500.41	500.40	500.45	
6	500.30	500.30	500.35	500.68	500.71	500.93	501.26	500.74	500.64	500.41	500.40	500.40	
7	500.30	500.30	500.35	500.68	500.59	500.80	501.13	500.73	500.64	500.41	500.40	500.39	
8	500.30	500.29	500.35	500.61	500.53	500.69	501.04	500.73	500.64	500.41	500.40	500.39	
9	500.30	500.29	500.35	500.70	500.53	500.97	501.05	500.73	500.63	500.41	500.40	500.38	
10	500.30	500.33	500.34	501.59	500.52	500.93	501.10	500.73	500.62	500.41	500.39	500.37	
11	500.31	500.38	500.32	501.07	500.57	501.44	502.36	500.73	500.61	500.41	500.39	500.36	
12	500.31	500.33	500.32	500.95	500.64	501.96	501.64	500.73	500.60	500.41	500.38	500.35	
13	500.30	500.54	500.31	500.74	500.62	501.28	501.33	500.73	500.59	500.41	500.38	500.35	
14	500.30	500.43	500.30	500.59	501.37	501.42	501.12	500.73	500.57	500.41	500.38	500.35	
15	500.31	500.39	500.31	500.64	501.16	501.06	501.02	500.73	500.56	500.41	500.38	500.35	
16	500.30	500.44	500.41	500.71	500.91	500.92	500.95	500.73	500.55	500.41	500.38	500.35	
17	500.31	500.43	501.62	500.64	500.85	500.84	500.90	500.73	500.51	500.41	500.37	500.35	
18	500.31	500.43	500.75	500.61	501.16	501.35	500.86	500.73	500.50	500.41	500.37	500.35	
19	500.31	500.41	500.65	500.54	501.05	501.57	500.85	500.73	500.50	500.41	500.36	500.35	
20	500.31	500.41	500.58	500.50	501.02	501.20	500.81	500.73	500.48	500.41	500.36	500.35	
21	500.31	500.45	500.47	500.87	500.86	500.99	500.82	500.73	500.47	500.41	500.36	500.35	
22	500.30	500.48	500.40	501.02	500.71	501.33	500.78	500.73	500.46	500.41	500.36	500.35	
23	500.31	500.45	500.40	501.04	500.91	501.94	500.78	500.73	500.45	500.41	500.36	500.35	
24	500.31	500.40	500.39	500.98	500.76	501.44	500.78	500.73	500.44	500.41	500.35	500.35	
25	500.31	500.38	500.37	500.79	500.87	501.28	500.78	500.72	500.43	500.41	500.35	500.35	
26	500.31	500.35	500.34	500.65	500.70	501.08	500.78	500.71	500.42	500.41	500.35	500.35	
27	500.31	500.39	500.33	500.56	500.64	501.02	500.76	500.70	500.41	500.41	500.35	500.35	
28	500.30	500.39	500.33	500.55	500.59	501.04	500.78	500.69	500.41	500.41	500.35	500.35	
29	500.31	500.39	500.33	500.51	500.56	500.98	500.94	500.69	500.41	500.41		500.35	
30	500.31	500.39	500.33	500.50	500.54	501.11	500.84	500.69	500.41	500.41		500.35	
31		500.39		501.03	500.53		500.80		500.41	500.41		500.35	
MEAN	500.30	500.38	500.42	500.77	500.76	501.21	501.11	500.73	500.54	500.41	500.38	500.37	
MAX	500.31	500.54	501.62	501.59	501.37	502.00	502.62	500.80	500.68	500.41	500.40	500.50	502.62
MIN	500.30	500.29	500.30	500.37	500.52	500.69	500.76	500.69	500.41	500.41	500.35	500.35	500.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 503.67 M (MSL), AT 5.00 HOURS, ON OCT 4, 1978
ZERO GAGE AT BOTTOM ELEVATION 500.10 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 505.83 M (MSL)
RIGHT BANK ELEVATION 505.90 M (MSL), DRAINAGE AREA 315 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.01	0.05	0.07	0.90	3.04	3.88	1.20	0.56	0.11	0.10	0.05	
2	0.00	0.02	0.04	7.37	0.50	24.30	15.82	0.96	0.56	0.11	0.10	0.20	
3	0.00	0.01	0.04	3.32	1.20	13.14	10.90	0.96	0.54	0.11	0.10	0.14	
4	0.00	0.01	0.04	0.96	0.60	5.18	40.68	0.96	0.52	0.11	0.10	0.12	
5	0.00	0.00	0.05	0.90	1.40	4.72	12.30	0.90	0.50	0.11	0.10	0.15	
6	0.00	0.00	0.05	0.56	0.66	2.62	7.94	0.84	0.48	0.11	0.10	0.10	
7	0.00	0.00	0.05	0.56	0.38	1.20	5.54	0.78	0.48	0.11	0.10	0.09	
8	0.00	0.00	0.05	0.42	0.26	0.58	4.16	0.78	0.48	0.11	0.10	0.09	
9	0.00	0.00	0.05	0.60	0.26	3.18	4.30	0.78	0.46	0.11	0.10	0.08	
10	0.00	0.03	0.04	14.68	0.24	2.62	5.00	0.78	0.44	0.11	0.09	0.07	
11	0.01	0.08	0.02	4.58	0.34	11.50	33.62	0.78	0.42	0.11	0.09	0.06	
12	0.01	0.03	0.02	2.90	0.48	23.34	15.82	0.78	0.40	0.11	0.08	0.05	
13	0.00	0.28	0.01	0.84	0.44	8.32	9.30	0.78	0.38	0.11	0.08	0.05	
14	0.00	0.13	0.00	0.38	10.10	11.10	5.36	0.78	0.34	0.11	0.08	0.05	
15	0.01	0.09	0.01	0.48	6.08	4.44	3.88	0.78	0.32	0.11	0.08	0.05	
16	0.00	0.14	0.11	0.66	2.34	2.48	2.90	0.78	0.30	0.11	0.08	0.05	
17	0.01	0.13	15.36	0.48	1.70	1.60	2.20	0.78	0.22	0.11	0.07	0.05	
18	0.01	0.13	0.90	0.42	6.08	9.70	1.80	0.78	0.20	0.11	0.07	0.05	
19	0.01	0.11	0.50	0.28	4.30	14.24	1.70	0.78	0.20	0.11	0.06	0.05	
20	0.01	0.11	0.36	0.20	3.88	6.80	1.30	0.78	0.18	0.11	0.06	0.05	
21	0.01	0.15	0.17	1.90	1.80	3.46	1.40	0.78	0.17	0.11	0.06	0.05	
22	0.00	0.18	0.10	3.88	0.66	9.30	1.08	0.78	0.16	0.11	0.06	0.05	
23	0.01	0.15	0.10	4.16	2.34	22.86	1.08	0.78	0.15	0.11	0.06	0.05	
24	0.01	0.10	0.09	3.32	0.96	11.50	1.08	0.78	0.14	0.11	0.05	0.05	
25	0.01	0.08	0.07	1.14	1.90	8.32	1.08	0.72	0.13	0.11	0.05	0.05	
26	0.01	0.05	0.04	0.50	0.60	4.72	1.08	0.66	0.12	0.11	0.05	0.05	
27	0.01	0.09	0.03	0.32	0.48	3.88	0.96	0.60	0.11	0.11	0.05	0.05	
28	0.00	0.09	0.03	0.30	0.38	4.16	1.08	0.58	0.11	0.11	0.05	0.05	
29	0.01	0.09	0.03	0.22	0.32	3.32	2.76	0.58	0.11	0.11		0.05	
30	0.01	0.09	0.03	0.20	0.28	5.18	1.60	0.58	0.11	0.11		0.05	
31		0.09		4.02	0.26		1.20		0.11	0.11		0.05	
TOTAL	0.15	2.47	18.44	60.62	52.12	230.80	202.80	23.58	9.40	3.41	2.17	2.15	608.11 CMSDAY
MEAN	0.00	0.08	0.61	1.96	1.68	7.69	6.54	0.79	0.30	0.11	0.08	0.07	1.67 CMS
MAX	0.01	0.28	15.36	14.68	10.10	24.30	40.68	1.20	0.56	0.11	0.10	0.20	40.68 CMS
MIN	0.00	0.00	0.00	0.07	0.24	0.58	0.96	0.58	0.11	0.11	0.05	0.05	0.00 CMS
RUNOFF	0.013	0.213	1.593	5.238	4.503	19.941	17.522	2.037	0.812	0.295	0.187	0.186	52.541 MCM

MOMENTARY PEAK 73.31 CMS, AT 503.67 M (MSL), AT 5.00 HOURS, ON OCT 4, 1978

RUNOFF YIELD 5.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 232.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.

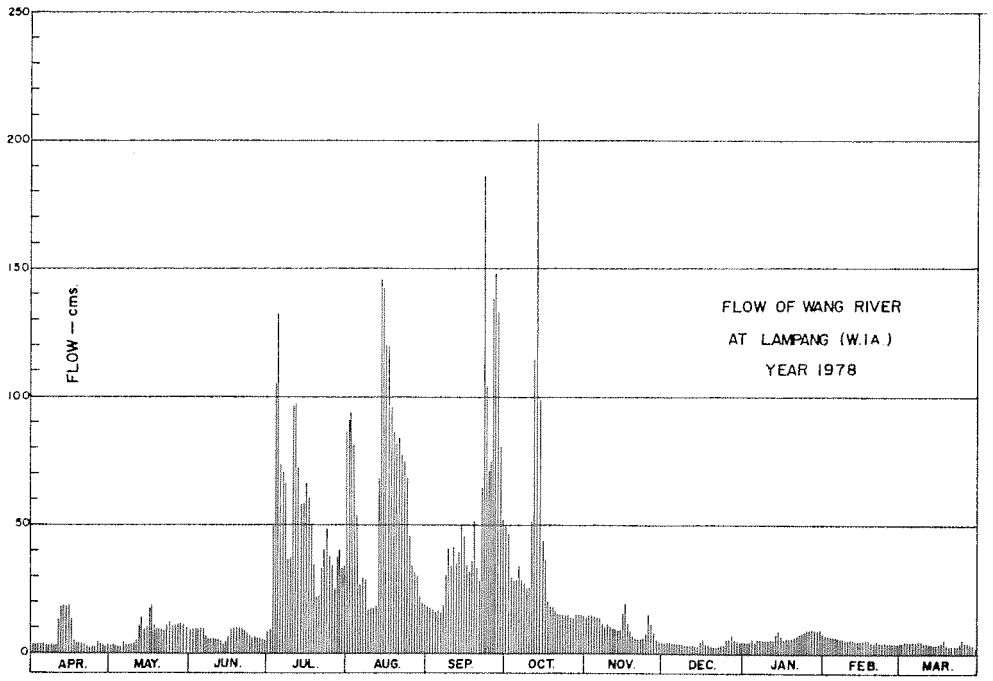
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 89 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	228.24	228.22	228.46	228.44	229.61	228.67	229.17	228.57	228.27	228.29	228.38	228.27	
2	228.25	228.25	228.46	228.44	229.68	228.65	229.12	228.59	228.27	228.29	228.37	228.29	
3	228.25	228.21	228.46	228.81	229.58	228.63	228.88	228.60	228.28	228.29	228.36	228.28	
4	228.26	228.21	228.47	229.79	229.34	228.62	228.84	228.58	228.28	228.31	228.36	228.29	
5	228.24	228.21	228.47	230.07	229.06	228.63	228.86	228.57	228.27	228.29	228.35	228.28	
6	228.23	228.27	228.45	229.47	228.83	228.62	228.95	228.57	228.27	228.31	228.35	228.30	
7	228.23	228.24	228.36	229.42	228.88	228.63	228.86	228.49	228.27	228.30	228.36	228.29	
8	228.24	228.23	228.32	229.38	228.86	228.79	228.84	228.48	228.26	228.31	228.34	228.31	
9	228.22	228.23	228.32	228.97	228.65	229.04	228.81	228.53	228.25	228.31	228.32	228.29	
10	228.22	228.24	228.32	228.99	228.65	228.95	228.80	228.51	228.25	228.31	228.31	228.28	
11	228.57	228.28	228.33	229.71	228.67	229.05	229.15	228.48	228.24	228.32	228.35	228.29	
12	228.67	228.49	228.32	229.72	228.67	228.95	229.87	228.46	228.24	228.32	228.31	228.28	
13	228.67	228.56	228.27	229.29	229.38	229.00	230.76	228.45	228.24	228.39	228.30	228.28	
14	228.66	228.47	228.22	229.27	230.20	229.17	229.80	228.43	228.24	228.43	228.31	228.27	
15	228.67	228.47	228.27	229.27	230.17	229.11	229.10	228.62	228.29	228.33	228.32	228.25	
16	228.45	228.61	228.39	229.38	229.95	228.94	229.01	228.69	228.31	228.33	228.30	228.25	
17	228.28	228.69	228.45	229.31	229.94	228.90	228.75	228.52	228.24	228.32	228.33	228.26	
18	228.24	228.55	228.47	229.20	229.69	228.94	228.64	228.44	228.23	228.32	228.29	228.31	
19	228.26	228.48	228.47	228.88	229.60	229.18	228.67	228.40	228.23	228.33	228.28	228.27	
20	228.24	228.47	228.47	228.73	229.56	228.95	228.62	228.37	228.23	228.35	228.29	228.25	
21	228.25	228.45	228.45	228.75	229.58	228.84	228.59	228.33	228.19	228.37	228.30	228.23	
22	228.21	228.44	228.45	228.90	229.51	229.38	228.59	228.34	228.22	228.41	228.28	228.23	
23	228.18	228.52	228.39	229.00	229.48	230.58	228.59	228.37	228.24	228.42	228.27	228.24	
24	228.18	228.53	228.35	229.15	229.41	229.62	228.58	228.41	228.25	228.42	228.29	228.23	
25	228.20	228.49	228.35	228.99	229.17	229.44	228.59	228.59	228.32	228.44	228.28	228.32	
26	228.28	228.51	228.35	228.95	228.95	230.13	228.57	228.53	228.32	228.46	228.29	228.26	
27	228.26	228.51	228.34	228.79	228.91	230.23	228.56	228.39	228.38	228.45	228.28	228.27	
28	228.23	228.51	228.34	228.98	228.89	230.12	228.58	228.31	228.33	228.45	228.26	228.24	
29	228.20	228.50	228.31	229.03	228.76	229.58	228.59	228.30	228.31	228.44		228.23	
30	228.25	228.48	228.28	228.93	228.70	229.21	228.58	228.28	228.29	228.46		228.21	
31		228.45		228.94	228.69		228.58		228.28	228.40		228.21	
MEAN	228.31	228.41	228.38	229.13	229.26	229.15	228.90	228.47	228.27	228.36	228.31	228.27	
MAX	228.67	228.69	228.47	230.07	230.20	230.58	230.76	228.69	228.38	228.46	228.38	228.32	230.76
MIN	228.18	228.21	228.22	228.44	228.65	228.62	228.56	228.28	228.19	228.29	228.26	228.21	228.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 230.80 M (MSL), AT 9.00 HOURS, ON OCT 13, 1978
ZERO GAGE AT BOTTOM ELEVATION 227.80 M (MSL), RIVER BED 227.79 M (MSL)
LEFT BANK ELEVATION 234.24 M (MSL)
RIGHT BANK ELEVATION 233.65 M (MSL), DRAINAGE AREA 3481 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.50	3.00	9.60	8.90	86.95	18.65	49.90	14.15	4.25	4.75	7.00	4.25	
2	3.75	3.75	9.60	8.90	93.60	17.75	46.40	15.05	4.25	4.75	6.75	4.75	
3	3.75	2.75	9.60	26.10	84.20	16.85	30.30	15.50	4.50	4.75	6.50	4.50	
4	4.00	2.75	9.95	104.05	63.40	16.40	27.90	14.60	4.50	5.25	6.50	4.75	
5	3.50	2.75	9.95	132.00	42.20	16.85	29.10	14.15	4.25	4.75	6.25	4.50	
6	3.25	4.25	9.25	74.45	27.30	16.40	34.75	14.15	4.25	5.25	6.25	5.00	
7	3.25	3.50	6.50	70.20	30.30	16.85	29.10	10.65	4.25	5.00	6.50	4.75	
8	3.50	3.25	5.50	66.80	29.10	24.95	27.90	10.30	4.00	5.25	6.00	5.25	
9	3.00	3.25	5.50	36.05	17.75	40.80	26.10	12.35	3.75	5.25	5.50	4.75	
10	3.00	3.50	5.50	37.35	17.75	34.75	25.50	11.45	3.75	5.25	5.25	4.50	
11	14.15	4.50	5.75	96.45	18.65	41.50	48.50	10.30	3.50	5.50	6.25	4.75	
12	18.65	10.65	5.50	97.40	18.65	34.75	112.00	9.60	3.50	5.50	5.25	4.50	
13	18.65	13.70	4.25	59.20	66.80	38.00	206.40	9.25	3.50	7.25	5.00	4.50	
14	18.20	9.95	3.00	57.60	145.50	49.90	105.00	8.55	3.50	8.55	5.25	4.25	
15	18.65	9.95	4.25	57.60	142.35	45.70	45.00	16.40	4.75	5.75	5.50	3.75	
16	9.25	15.95	7.25	66.80	120.00	34.10	38.70	19.55	5.25	5.75	5.00	3.75	
17	4.50	19.55	9.25	60.85	119.00	31.50	22.75	11.90	3.50	5.50	5.75	4.00	
18	3.50	13.25	9.95	52.00	94.55	34.10	17.30	8.90	3.25	5.50	4.75	5.25	
19	4.00	10.30	9.95	30.30	86.00	50.60	18.65	7.50	3.25	5.75	4.50	4.25	
20	3.50	9.95	9.95	21.65	82.40	34.75	16.40	6.75	3.25	6.25	4.75	3.75	
21	3.75	9.25	9.25	22.75	84.20	27.90	15.05	5.75	2.35	6.75	5.00	3.25	
22	2.75	8.90	9.25	31.50	77.90	66.80	15.05	6.00	3.00	7.85	4.50	3.25	
23	2.20	11.90	7.25	38.00	75.30	186.30	15.05	6.75	3.50	8.20	4.25	3.50	
24	2.20	12.35	6.25	48.50	69.35	87.90	14.60	7.85	3.75	8.20	4.75	3.25	
25	2.50	10.65	6.25	37.35	49.90	71.90	15.05	15.05	5.50	8.90	4.50	5.50	
26	4.50	11.45	6.25	34.75	34.75	138.15	14.15	12.35	5.50	9.60	4.75	4.00	
27	4.00	11.45	6.00	24.95	32.15	148.65	13.70	7.25	7.00	9.25	4.50	4.25	
28	3.25	11.45	6.00	36.70	30.90	137.10	14.60	5.25	5.75	9.25	4.00	3.50	
29	2.50	11.00	5.25	40.10	23.30	84.20	15.05	5.00	5.25	8.90		3.25	
30	3.75	10.30	4.50	33.45	20.00	52.80	14.60	4.50	4.75	9.60		2.75	
31		9.25		34.10	19.55		14.60		4.50	7.50		2.75	
TOTAL	178.95	268.45	216.30	1546.80	1903.75	1616.85	1119.15	316.80	129.85	205.55	150.75	129.00	7782.19 CMSDAY
MEAN	5.96	8.66	7.21	49.90	61.41	53.89	36.10	10.56	4.19	6.63	5.38	4.16	21.32 CMS
MAX	18.65	19.55	9.95	132.00	145.50	186.30	206.40	19.55	7.00	9.60	7.00	5.50	206.40 CMS
MIN	2.20	2.75	3.00	8.90	17.75	16.40	13.70	4.50	2.35	4.75	4.00	2.75	2.20 CMS
RUNOFF	15.461	23.194	18.688	133.643	164.484	139.696	96.694	27.372	11.219	17.760	13.025	11.146	672.381 MCM

MOMENTARY PEAK 211.00 CMS, AT 230.80 M (MSL), AT 9.00 HOURS, ON OCT 13, 1978

RUNOFF YIELD 6.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 60.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

WANG RIVER BASIN

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

LOCATION — LAT. 17°-36'-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.-H.S.

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.

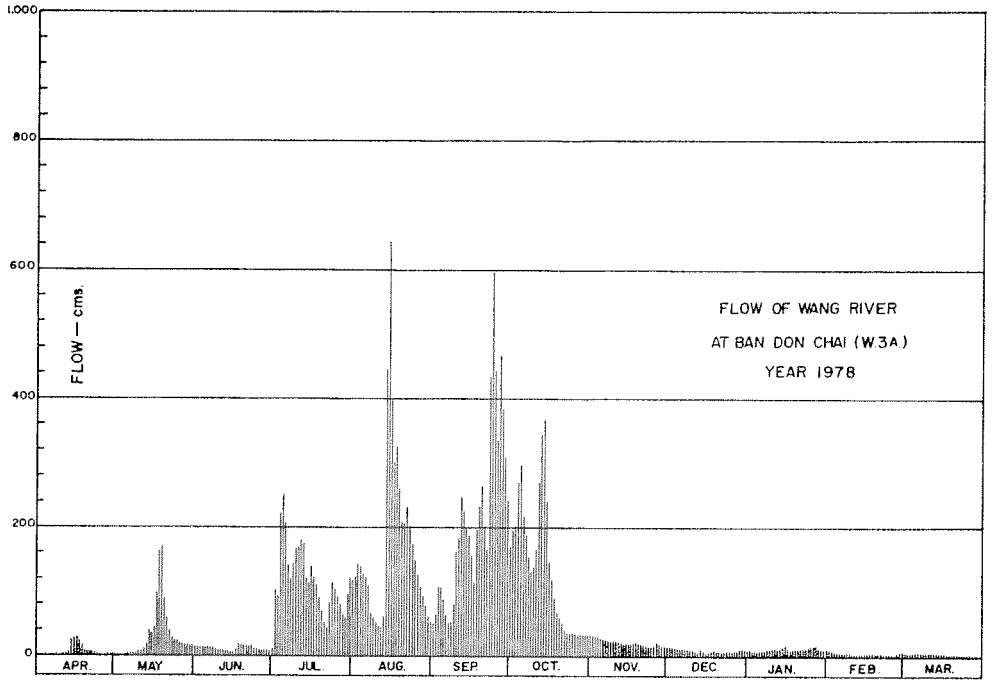
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	161.62	161.70	161.99	161.86	162.97	162.42	163.31	162.22	162.01	161.92	161.94	161.85	
2	161.60	161.71	161.98	162.87	163.01	162.47	163.47	162.22	162.00	161.91	161.93	161.84	
3	161.60	161.71	161.97	162.78	163.15	162.91	163.51	162.20	161.99	161.91	161.90	161.82	
4	161.60	161.68	162.00	163.60	163.13	162.90	163.79	162.20	161.99	161.93	161.89	161.82	
5	161.61	161.70	161.99	163.75	163.01	162.74	163.95	162.18	161.99	161.91	161.89	161.82	
6	161.65	161.77	162.00	163.51	163.01	162.57	163.59	162.17	161.97	161.91	161.87	161.82	
7	161.70	161.78	162.00	163.13	162.74	162.43	163.48	162.16	161.95	161.92	161.87	161.82	
8	161.71	161.76	161.99	162.97	162.57	162.33	163.23	162.14	161.95	161.92	161.85	161.82	
9	161.71	161.77	161.94	163.12	162.54	162.64	163.03	162.12	161.94	161.93	161.86	161.82	
10	161.74	161.85	161.89	163.30	162.43	162.27	163.08	162.12	161.92	161.93	161.85	161.81	
11	161.77	161.80	161.88	163.33	162.35	163.37	163.23	162.11	161.91	161.97	161.84	161.80	
12	161.76	161.97	161.86	163.37	162.33	163.73	163.75	162.10	161.89	161.96	161.82	161.80	
13	161.89	162.01	161.85	163.36	162.46	163.59	164.15	162.08	161.87	161.96	161.82	161.80	
14	162.12	162.31	161.84	162.99	164.43	163.50	164.24	162.08	161.90	161.97	161.81	161.80	
15	162.18	162.25	161.83	162.93	165.21	163.45	163.67	162.08	161.88	161.99	161.81	161.80	
16	162.16	162.34	161.82	163.13	164.37	163.18	163.17	162.07	161.84	162.04	161.83	161.79	
17	162.15	162.58	161.92	162.98	163.94	162.98	162.96	162.09	161.81	161.99	161.83	161.78	
18	162.02	163.28	162.06	162.92	164.07	163.46	162.73	162.11	161.86	161.96	161.82	161.76	
19	161.90	163.33	162.04	162.75	163.74	163.66	162.57	162.13	161.85	161.94	161.82	161.76	
20	161.84	162.71	162.06	162.60	163.53	163.81	162.49	162.11	161.87	161.93	161.82	161.75	
21	161.80	162.45	162.03	162.40	163.48	163.43	162.41	162.08	161.87	161.93	161.81	161.73	
22	161.79	162.28	162.04	162.35	163.64	163.30	162.29	162.07	161.84	161.95	161.80	161.72	
23	161.78	162.17	162.00	162.78	163.53	164.23	162.25	162.04	161.83	161.98	161.79	161.71	
24	161.75	162.11	161.97	162.96	163.31	165.06	162.27	162.03	161.88	162.01	161.79	161.70	
25	161.71	162.11	161.93	162.89	163.24	164.52	162.26	162.03	161.88	162.02	161.79	161.69	
26	161.68	162.08	161.90	162.82	163.05	164.11	162.25	162.03	161.89	162.02	161.78	161.68	
27	161.65	162.06	161.88	162.68	162.96	164.61	162.24	162.09	161.88	162.02	161.77	161.66	
28	161.66	162.06	161.87	162.57	162.81	164.30	162.24	162.05	161.89	162.04	161.77	161.65	
29	161.74	162.04	161.86	162.46	162.65	163.92	162.23	162.02	161.92	161.98		161.66	
30	161.74	162.04	161.85	162.67	162.53	163.56	162.23	162.01	161.95	161.94		161.68	
31		162.02		162.92	162.44		162.22		161.94	161.94		161.68	
MEAN	161.79	162.11	161.94	162.93	163.18	163.41	162.98	162.10	161.91	161.96	161.83	161.76	
MAX	162.18	163.33	162.06	163.75	165.21	165.06	164.24	162.22	162.01	162.04	161.94	161.85	165.21
MIN	161.60	161.68	161.82	161.86	162.33	162.33	162.22	162.01	161.81	161.91	161.77	161.65	161.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 165.60 M (MSL), AT 5.00 HOURS, ON AUG 15, 1978
ZERO GAGE AT BOTTOM ELEVATION 161.00 M (MSL), RIVER BED 160.94 M (MSL)
LEFT BANK ELEVATION 170.84 M (MSL)
RIGHT BANK ELEVATION 170.82 M (MSL), DRAINAGE AREA 8985 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	2.00	13.60	8.40	115.80	50.00	165.80	31.80	14.80	10.80	11.60	8.00	
2	0.00	2.40	13.20	102.10	121.40	55.00	194.60	31.80	14.00	10.40	11.20	7.60	
3	0.00	2.40	12.80	90.60	141.00	107.40	202.00	30.00	13.60	10.40	10.00	6.80	
4	0.00	1.60	14.00	220.00	138.20	106.00	258.90	30.00	13.60	11.20	9.60	6.80	
5	0.20	2.00	13.60	250.50	121.40	85.80	294.50	28.40	13.60	10.40	9.60	6.80	
6	1.00	4.80	14.00	202.00	121.40	65.70	218.00	27.60	12.80	10.40	8.80	6.80	
7	2.00	5.20	14.00	138.20	85.80	51.00	196.40	26.80	12.00	10.80	8.80	6.80	
8	2.40	4.40	13.60	115.80	65.70	41.70	152.80	25.20	12.00	10.80	8.00	6.80	
9	2.40	4.80	11.60	136.80	62.40	73.80	124.20	23.60	11.60	11.20	8.40	6.80	
10	3.60	8.00	9.60	164.00	51.00	159.20	131.20	23.60	10.80	11.20	8.00	6.40	
11	4.80	6.00	9.20	169.40	43.50	176.60	152.80	22.80	10.40	12.80	7.60	6.00	
12	4.40	12.80	8.40	176.60	41.70	246.30	250.50	22.00	9.60	12.40	6.80	6.00	
13	9.60	14.80	8.00	174.80	54.00	218.00	342.50	20.40	8.80	12.40	6.80	6.00	
14	23.60	39.90	7.60	118.60	414.10	200.00	365.00	20.40	10.00	12.80	6.40	6.00	
15	28.40	34.50	7.20	110.20	639.00	191.00	234.00	20.40	9.20	13.60	6.40	6.00	
16	26.80	42.60	6.80	138.20	398.20	145.20	143.80	19.60	7.60	17.20	7.20	5.60	
17	26.00	66.80	10.80	117.20	292.19	117.20	114.40	21.20	6.40	13.60	7.20	5.20	
18	15.60	160.80	18.80	108.80	322.80	192.80	84.60	22.80	8.40	12.40	6.80	4.40	
19	10.00	169.40	17.20	87.00	248.40	232.00	65.70	24.40	8.00	11.60	6.80	4.40	
20	7.60	82.20	18.80	69.00	206.00	263.20	57.00	22.80	8.80	11.20	6.80	4.00	
21	6.00	53.00	16.40	48.00	196.40	187.40	49.00	20.40	8.80	11.20	6.40	3.20	
22	5.60	37.20	17.20	43.50	228.00	164.00	38.10	19.60	7.60	12.00	6.00	2.80	
23	5.20	27.60	14.00	90.60	206.00	362.50	34.50	17.20	7.20	13.20	5.60	2.40	
24	4.00	22.80	12.80	114.40	165.80	594.00	36.30	16.40	9.20	14.80	5.60	2.00	
25	2.40	22.80	11.20	104.70	154.40	438.40	35.40	16.40	9.20	15.60	5.60	1.80	
26	1.60	20.40	10.00	95.60	127.00	332.50	34.50	16.40	9.60	15.60	5.20	1.60	
27	1.00	18.80	9.20	78.60	114.40	462.80	33.60	21.20	9.20	15.60	4.80	1.20	
28	1.20	18.80	8.80	65.70	94.30	380.00	33.60	18.00	9.60	17.20	4.80	1.00	
29	3.60	17.20	8.40	54.00	75.00	287.60	32.70	15.60	10.80	13.20		1.20	
30	3.60	17.20	8.00	77.40	61.30	212.00	32.70	14.80	12.00	11.60		1.60	
31		15.60		108.80	52.00		31.80		11.60	11.60		1.60	
TOTAL	203.00	938.80	358.80	3579.50	5158.59	6199.10	4140.90	671.60	320.80	389.20	206.80	143.60	22310.66 CMSDAY
MEAN	6.77	30.28	11.96	115.47	166.41	206.64	133.58	22.39	10.35	12.55	7.39	4.63	61.13 CMS
MAX	28.40	169.40	18.80	250.50	639.00	594.00	365.00	31.80	14.80	17.20	11.60	8.00	639.00 CMS
MIN	0.00	1.60	6.80	8.40	41.70	41.70	31.80	14.80	6.40	10.40	4.80	1.00	0.00 CMS
RUNOFF	17.539	81.112	31.000	309.268	445.702	535.602	357.773	58.026	27.717	33.627	17.867	12.407	1927.641 MCM

MOMENTARY PEAK 762.00 CMS, AT 165.60 M (MSL), AT 5.00 HOURS, ON AUG 15, 1978

RUNOFF YIELD 6.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 84.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

WANG RIVER BASIN

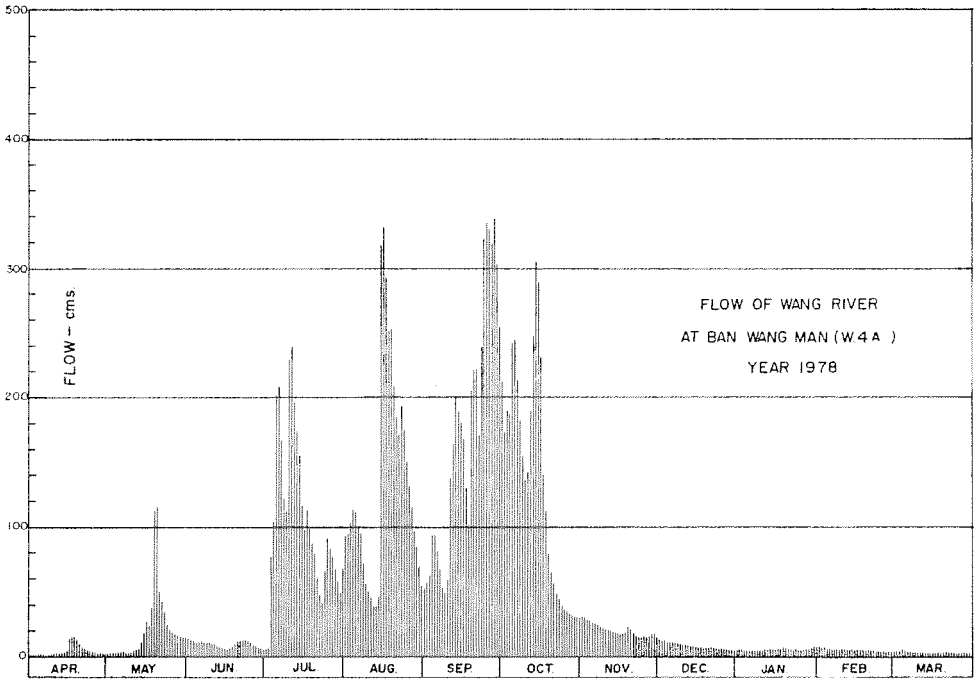
WANG RIVER AT BAN WANG MAN, TAK (W.4A)

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.S.
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 43 DISCHARGE MEASUREMENTS MADE IN 1978, UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 12,320 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	130.75	130.88	131.45	131.08	133.10	132.41	134.47	131.95	131.44	131.13	131.20	130.99	
2	130.75	130.89	131.41	131.12	133.12	132.53	134.08	131.93	131.40	131.12	131.21	130.99	
3	130.75	130.87	131.36	132.85	133.19	132.61	134.28	131.90	131.38	131.11	131.21	131.01	
4	130.75	130.84	131.33	133.26	133.38	133.13	134.23	131.85	131.36	131.10	131.20	131.06	
5	130.77	130.84	131.33	134.42	133.36	133.12	134.82	131.83	131.35	131.10	131.13	131.00	
6	130.77	130.85	131.35	134.48	133.15	132.89	134.86	131.81	131.36	131.09	131.10	130.97	
7	130.76	130.86	131.34	133.97	133.12	132.61	134.33	131.78	131.35	131.08	131.10	130.96	
8	130.76	130.88	131.33	133.39	132.72	132.43	134.12	131.75	131.32	131.08	131.09	130.98	
9	130.79	130.90	131.33	133.32	132.47	132.25	133.74	131.71	131.30	131.07	131.09	130.98	
10	130.82	130.93	131.30	134.59	132.40	132.60	133.64	131.68	131.30	131.09	131.12	130.98	
11	130.83	131.02	131.24	134.80	132.28	133.65	133.73	131.65	131.29	131.10	131.12	130.97	
12	130.83	131.06	131.19	134.24	132.11	133.93	134.31	131.65	131.28	131.09	131.12	130.96	
13	130.85	131.05	131.16	134.09	132.10	134.39	135.04	131.63	131.26	131.11	131.10	130.94	
14	130.89	131.28	131.13	133.87	132.28	134.23	135.43	131.60	131.24	131.11	131.08	130.94	
15	131.02	131.46	131.11	133.28	135.39	134.17	135.22	131.57	131.21	131.10	131.08	130.94	
16	131.41	131.81	131.08	133.15	135.66	133.97	134.33	131.55	131.20	131.10	131.08	130.93	
17	131.48	131.71	131.08	133.37	135.24	133.51	133.63	131.54	131.17	131.12	131.05	130.92	
18	131.46	132.16	131.10	133.14	134.90	133.21	133.28	131.63	131.14	131.19	131.03	130.92	
19	131.41	133.34	131.29	133.02	134.93	134.43	132.93	131.75	131.13	131.16	131.01	130.91	
20	131.25	133.41	131.36	132.77	134.39	134.63	132.66	131.68	131.17	131.12	131.00	130.90	
21	131.15	132.26	131.42	132.58	134.10	134.63	132.49	131.55	131.15	131.10	131.00	130.89	
22	131.08	132.20	131.41	132.26	134.05	134.06	132.39	131.50	131.13	131.09	131.00	130.89	
23	131.04	131.93	131.39	132.16	134.33	134.55	132.27	131.52	131.11	131.07	131.00	130.89	
24	131.01	131.76	131.35	132.68	134.06	135.58	132.17	131.52	131.10	131.08	130.98	130.89	
25	130.97	131.64	131.31	133.06	133.76	135.70	132.10	131.50	131.09	131.11	130.98	130.88	
26	130.94	131.59	131.25	132.93	132.61	135.67	132.05	131.50	131.11	131.10	130.97	130.87	
27	130.90	131.54	131.21	132.88	133.29	135.54	132.01	131.48	131.11	131.10	130.98	130.86	
28	130.87	131.52	131.16	132.64	133.12	135.73	131.97	131.58	131.08	131.11	130.99	130.85	
29	130.85	131.50	131.14	132.51	132.88	135.47	131.94	131.59	131.07	131.13		130.85	
30	130.85	131.49	131.10	132.32	132.68	135.00	131.92	131.49	131.07	131.18		130.85	
31		131.48		132.71	132.52		131.91		131.08	131.21		130.85	
MEAN	130.96	131.48	131.27	133.13	133.47	133.95	133.43	131.66	131.22	131.11	131.07	130.93	
MAX	131.48	133.41	131.45	134.80	135.66	135.73	135.43	131.95	131.44	131.21	131.21	131.06	135.73
MIN	130.75	130.84	131.08	131.08	132.10	132.25	131.91	131.48	131.07	131.07	130.97	130.85	130.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 135.77 M (MSL), AT 14.00 HOURS, ON SEP 28, 1978
ZERO GAGE AT BOTTOM ELEVATION 130.00 M (MSL), RIVER BED 130.47 M (MSL)
LEFT BANK ELEVATION 136.38 M (MSL)
RIGHT BANK ELEVATION 136.86 M (MSL), DRAINAGE AREA 10507 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.80	3.10	14.35	5.66	93.40	51.91	207.15	31.50	14.08	6.60	8.00	4.20	
2	1.80	3.20	13.27	6.40	94.82	58.15	171.70	30.70	13.00	6.40	8.24	4.20	
3	1.80	3.00	11.96	76.65	99.79	62.57	189.70	29.50	12.48	6.20	8.24	4.47	
4	1.80	2.70	11.18	104.82	113.78	95.53	185.20	27.50	11.96	6.00	8.00	5.32	
5	2.00	2.70	11.18	202.40	112.26	94.82	241.50	26.70	11.70	6.00	6.60	4.30	
6	2.00	2.80	11.70	208.10	96.95	79.17	245.50	25.90	11.96	5.83	6.00	4.00	
7	1.90	2.90	11.44	161.95	94.82	62.57	194.20	24.80	11.70	5.66	6.00	3.90	
8	1.90	3.10	11.18	114.54	68.86	52.93	175.30	23.75	10.92	5.66	5.83	4.10	
9	2.20	3.30	11.18	109.22	54.97	44.30	142.72	22.35	10.40	5.49	5.83	4.10	
10	2.50	3.60	10.40	218.55	51.40	62.00	134.48	21.30	10.40	5.83	6.40	4.10	
11	2.60	4.64	8.96	239.50	45.68	135.30	141.89	20.25	10.16	6.00	6.40	4.00	
12	2.60	5.32	7.80	186.10	38.13	158.55	192.40	20.25	9.92	5.83	6.40	3.90	
13	2.80	5.15	7.20	172.60	37.70	199.60	263.70	19.55	9.44	6.20	6.00	3.70	
14	3.20	9.92	6.60	153.51	45.68	185.20	305.30	18.50	8.96	6.20	5.66	3.70	
15	4.64	14.62	6.20	106.26	300.90	179.80	282.60	17.66	8.24	6.00	5.66	3.70	
16	13.27	25.90	5.66	96.95	330.90	161.95	194.20	17.10	8.00	6.00	5.66	3.60	
17	15.16	22.35	5.66	113.02	284.70	123.91	133.66	16.82	7.40	6.40	5.15	3.50	
18	14.62	40.28	6.00	96.24	249.50	101.22	106.26	19.55	6.80	7.80	4.81	3.50	
19	13.27	110.74	10.16	87.88	252.50	203.35	81.81	23.75	6.60	7.20	4.47	3.40	
20	9.20	116.08	11.96	71.76	199.60	222.50	65.42	21.30	7.40	6.40	4.30	3.30	
21	7.00	44.76	13.54	60.90	173.50	222.50	55.99	17.10	7.00	6.00	4.30	3.20	
22	5.66	42.00	13.27	44.76	169.00	169.90	50.92	15.70	6.60	5.83	4.30	3.20	
23	4.98	30.70	12.74	40.28	194.20	214.75	45.22	16.26	6.20	5.49	4.30	3.20	
24	4.47	24.10	11.70	66.56	169.90	321.80	40.71	16.26	6.00	5.66	4.10	3.20	
25	4.00	19.90	10.66	90.64	144.38	335.50	37.70	15.70	5.83	6.20	4.10	3.10	
26	3.70	18.22	9.20	81.81	132.02	332.05	35.60	15.70	6.20	6.00	4.00	3.00	
27	3.30	16.82	8.24	78.54	106.98	317.40	33.92	15.16	6.20	6.00	4.10	2.90	
28	3.00	16.26	7.20	64.28	94.82	339.10	32.30	17.94	5.66	6.20	4.20	2.80	
29	2.80	15.70	6.80	57.05	78.54	309.70	31.10	18.22	5.49	6.60		2.80	
30	2.80	15.43	6.00	47.56	66.56	259.50	30.30	15.43	5.49	7.60		2.80	
31		15.16		68.28	57.60		29.90		5.66	8.24		2.80	
TOTAL	142.77	644.45	293.39	3232.76	4053.84	5157.53	4078.35	622.20	267.85	193.52	157.05	111.99	18955.68 CMSDAY
MEAN	4.76	20.79	9.78	104.28	130.77	171.92	131.56	20.74	8.64	6.24	5.61	3.61	51.93 CMS
MAX	15.16	116.08	14.35	239.50	330.90	339.10	305.30	31.50	14.08	8.24	8.24	5.32	339.10 CMS
MIN	1.80	2.70	5.66	5.66	37.70	44.30	29.90	15.16	5.49	5.49	4.00	2.80	1.80 CMS
RUNOFF	12.335	55.680	25.349	279.311	350.251	445.610	352.369	53.758	23.142	16.720	13.569	9.676	1637.770 MCM

MOMENTARY PEAK 343.90 CMS, AT 135.77 M (MSL), AT 14.00 HOURS, ON SEP 28, 1978

RUNOFF YIELD 4.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 32.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

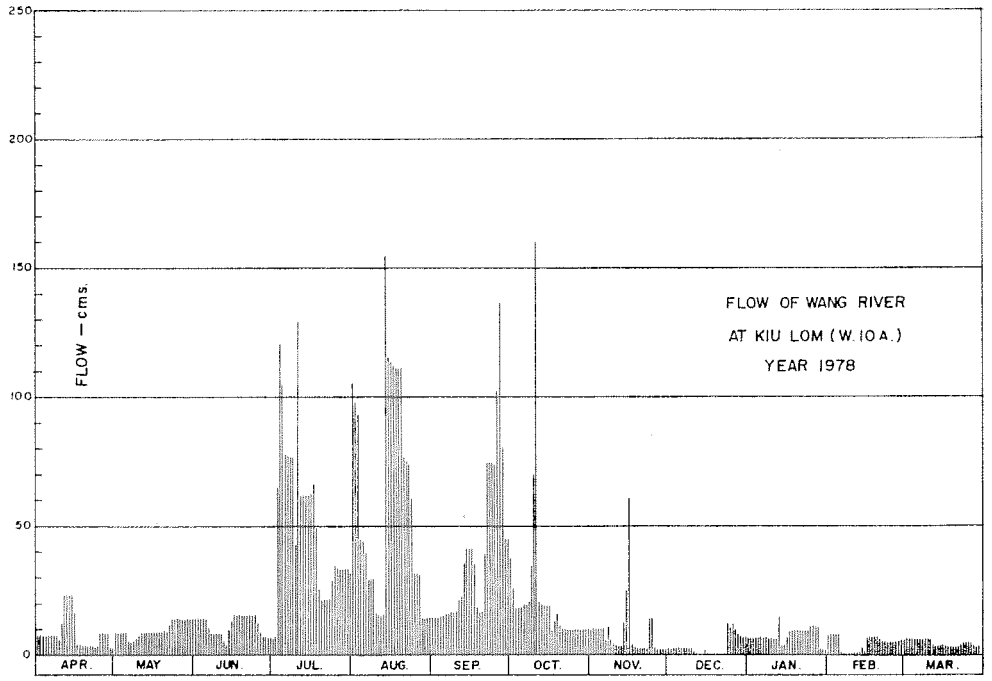
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW IS UNDER CONSTRUCTION OF KIU LOM DAM.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	259.10	259.12	259.23	259.08	260.36	259.25	259.71	259.16	258.97	259.08	259.10	259.06	
2	259.10	259.12	259.23	259.08	260.30	259.25	259.42	259.16	258.98	259.08	259.10	259.06	
3	259.10	259.12	259.23	259.96	260.25	259.25	259.32	259.16	258.99	259.08	259.10	259.06	
4	259.10	259.12	259.23	260.52	259.70	259.26	259.32	259.16	258.99	259.08	259.10	259.06	
5	259.10	259.12	259.23	260.30	259.70	259.26	259.32	259.16	258.99	259.08	259.10	259.06	
6	259.10	259.05	259.15	260.08	259.70	259.26	259.33	259.16	258.99	259.08	258.87	259.06	
7	259.10	259.05	259.11	260.08	259.50	259.28	259.33	259.05	258.99	259.08	258.76	259.06	
8	259.07	259.05	259.11	260.08	259.50	259.28	259.33	259.15	258.99	259.07	258.76	259.06	
9	259.02	259.06	259.11	260.08	259.50	259.28	259.51	259.06	258.99	259.07	258.82	259.06	
10	259.25	259.08	259.11	259.68	259.27	259.28	259.87	259.02	258.99	259.06	258.85	259.06	
11	259.41	259.10	259.11	260.60	259.27	259.37	260.88	259.01	258.94	259.06	258.85	259.06	
12	259.41	259.10	259.03	259.91	259.27	259.38	259.33	259.01	258.87	259.06	258.76	259.00	
13	259.41	259.10	259.00	259.91	259.27	259.56	259.33	259.01	258.79	259.25	258.76	259.00	
14	259.41	259.10	259.13	259.91	260.84	259.65	259.33	259.21	258.77	259.00	258.97	259.00	
15	259.27	259.10	259.23	259.91	260.47	259.65	259.33	259.31	258.95	259.00	258.76	259.00	
16	259.00	259.10	259.26	259.91	260.45	259.65	259.33	259.91	258.79	259.09	259.08	259.00	
17	259.00	259.10	259.26	259.96	260.43	259.65	259.13	258.98	258.79	259.14	259.08	258.99	
18	259.00	259.10	259.26	259.84	260.43	259.35	259.19	258.98	258.80	259.14	259.08	258.99	
19	259.00	259.10	259.26	259.37	260.43	259.28	259.27	258.98	258.80	259.14	259.08	258.98	
20	259.00	259.10	259.26	259.37	260.43	259.27	259.18	258.98	258.80	259.13	259.08	258.98	
21	259.00	259.10	259.26	259.37	260.08	259.53	259.16	258.98	258.91	259.13	259.05	258.98	
22	259.00	259.18	259.26	259.37	260.06	260.05	259.16	258.98	258.77	259.13	259.04	258.98	
23	259.00	259.23	259.26	259.37	260.05	260.05	259.16	258.98	258.77	259.13	259.04	259.00	
24	259.00	259.23	259.26	259.49	259.74	260.05	259.16	259.24	259.20	259.14	259.04	259.03	
25	259.13	259.23	259.26	259.57	259.53	260.04	259.16	259.24	259.14	259.17	259.04	259.03	
26	259.12	259.23	259.12	259.56	259.53	260.50	259.16	258.97	259.18	259.17	259.04	259.03	
27	259.12	259.23	259.09	259.55	259.53	260.67	259.16	258.97	259.12	259.17	259.04	259.02	
28	259.12	259.23	259.08	259.55	259.24	260.37	259.16	258.97	259.09	259.17	259.05	258.99	
29	258.99	259.23	259.08	259.55	259.24	259.71	259.16	258.97	259.09	258.95		258.99	
30	258.99	259.23	259.08	259.55	259.24	259.71	259.16	258.96	259.08	258.94		258.99	
31		259.23		259.52	259.24		259.16		259.08	258.92		258.99	
MEAN	259.11	259.14	259.18	259.74	259.82	259.60	259.34	259.10	258.95	259.09	258.98	259.02	
MAX	259.41	259.23	259.26	260.60	260.84	260.67	260.88	259.91	259.20	259.25	259.10	259.06	260.88
MIN	258.99	259.05	259.00	259.08	259.24	259.25	259.13	258.96	258.77	258.92	258.76	258.98	258.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 261.32 M (MSL), AT 15.00 HOURS, ON OCT 11, 1978
ZERO GAGE AT BOTTOM ELEVATION 258.96 M (MSL), RIVER BED 258.16 M (MSL)
LEFT BANK ELEVATION 269.23 M (MSL)
RIGHT BANK ELEVATION 269.33 M (MSL), DRAINAGE AREA 2798 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.50	8.40	13.50	6.60	103.99	14.50	44.80	10.20	2.10	6.60	7.50	5.70	
2	7.50	8.40	13.50	6.60	98.00	14.50	23.80	10.20	2.40	6.60	7.50	5.70	
3	7.50	8.40	13.50	65.90	93.00	14.50	18.10	10.20	2.70	6.60	7.50	5.70	
4	7.50	8.40	13.50	120.10	44.00	15.00	18.10	10.20	2.70	6.60	7.50	5.70	
5	7.50	8.40	13.50	98.00	44.00	15.00	18.10	10.20	2.70	6.60	7.50	5.70	
6	7.50	5.25	9.75	76.70	44.00	15.00	18.65	10.20	2.70	6.60	0.00	5.70	
7	7.50	5.25	7.95	76.70	29.00	16.00	18.65	5.25	2.70	6.60	0.00	5.70	
8	6.15	5.25	7.95	76.70	29.00	16.00	18.65	9.75	2.70	6.15	0.00	5.70	
9	3.90	5.70	7.95	76.70	29.00	16.00	29.75	5.70	2.70	6.15	0.00	5.70	
10	14.50	6.60	7.95	42.50	15.50	16.00	57.95	3.90	2.70	5.70	0.00	5.70	
11	23.15	7.50	7.95	128.49	15.50	20.85	159.19	3.45	1.20	5.70	0.00	5.70	
12	23.15	7.50	4.35	61.40	15.50	21.40	18.65	3.45	0.00	5.70	0.00	3.00	
13	23.15	7.50	3.00	61.40	15.50	33.50	18.65	3.45	0.00	14.50	0.00	3.00	
14	23.15	7.50	8.85	61.40	154.59	40.25	18.65	12.50	0.00	3.00	2.10	3.00	
15	15.50	7.50	13.50	61.40	114.99	40.25	18.65	17.55	1.50	3.00	0.00	3.00	
16	3.00	7.50	15.00	61.40	113.00	40.25	18.65	61.40	0.00	7.05	6.60	3.00	
17	3.00	7.50	15.00	65.90	110.99	40.25	8.85	2.40	0.00	9.30	6.60	2.70	
18	3.00	7.50	15.00	55.39	110.99	19.75	11.55	2.40	0.00	9.30	6.60	2.70	
19	3.00	7.50	15.00	20.85	110.99	16.00	15.50	2.40	0.00	9.30	6.60	2.40	
20	3.00	7.50	15.00	20.85	110.99	15.50	11.10	2.40	0.00	8.85	6.60	2.40	
21	3.00	7.50	15.00	20.85	76.70	31.24	10.20	2.40	0.30	8.85	5.25	2.40	
22	3.00	11.10	15.00	20.85	74.90	74.00	10.20	2.40	0.00	8.85	4.80	2.40	
23	3.00	13.50	15.00	20.85	74.00	74.00	10.20	2.40	0.00	8.85	4.80	3.00	
24	3.00	13.50	15.00	28.35	47.20	74.00	10.20	14.00	12.00	9.30	4.80	4.35	
25	8.85	13.50	15.00	34.25	31.24	73.10	10.20	14.00	9.30	10.65	4.80	4.35	
26	8.40	13.50	8.40	33.50	31.24	117.99	10.20	2.10	11.10	10.65	4.80	4.35	
27	8.40	13.50	7.05	32.75	31.24	133.85	10.20	2.10	8.40	10.65	4.80	3.90	
28	8.40	13.50	6.60	32.75	14.00	105.00	10.20	2.10	7.05	10.65	5.25	2.70	
29	2.70	13.50	6.60	32.75	14.00	44.80	10.20	2.10	7.05	1.50		2.70	
30	2.70	13.50	6.60	32.75	14.00	44.80	10.20	1.80	6.60	1.20		2.70	
31		13.50		30.50	14.00		10.20		6.60	0.60		2.70	
TOTAL	251.60	285.15	331.95	1565.13	1825.05	1215.28	678.19	242.60	97.20	221.65	111.90	123.45	6949.14 CMSDAY
MEAN	8.39	9.20	11.06	50.49	58.87	40.51	21.88	8.09	3.14	7.15	4.00	3.98	19.04 CMS
MAX	23.15	13.50	15.00	128.49	154.59	135.85	159.19	61.40	12.00	14.50	7.50	5.70	159.19 CMS
MIN	2.70	5.25	3.00	6.60	14.00	14.50	8.85	1.80	0.00	0.60	0.00	2.40	0.00 CMS
RUNOFF	21.738	24.637	28.680	135.227	157.684	105.000	58.596	20.961	8.398	19.151	9.668	10.666	600.406 MCM

MOMENTARY PEAK 211.50 CMS, AT 261.32 M (MSL), AT 15.00 HOURS, ON OCT 11, 1978

RUNOFF YIELD 6.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 75.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

WANG RIVER BASIN

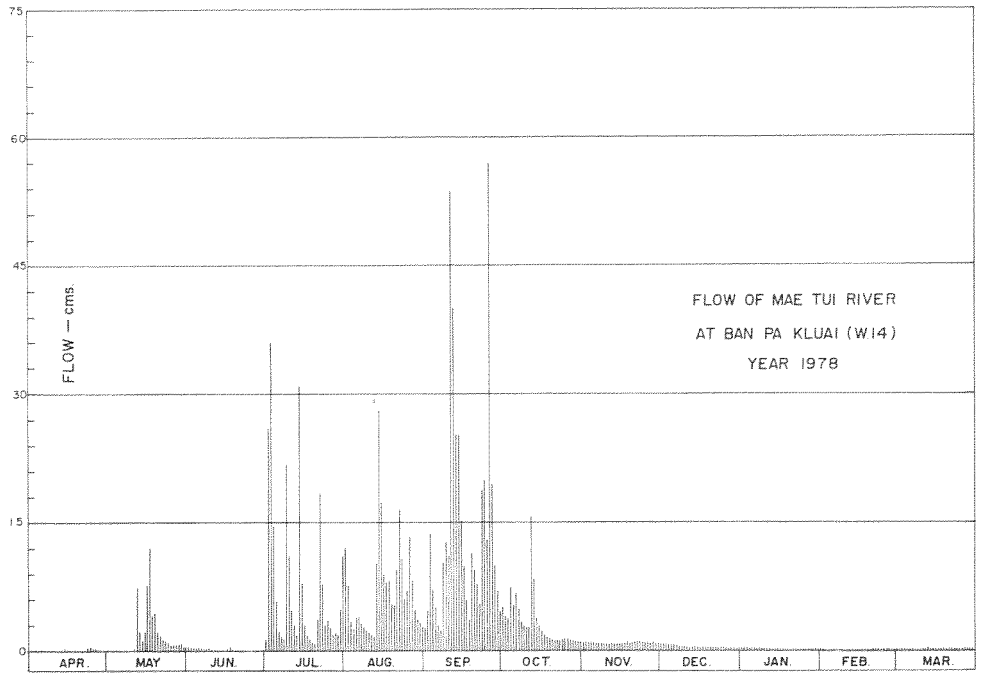
MAE TUI AT BAN PA KLUAI, LAMPANG (W.14)

LOCATION	LAT. 18°-28'-00" N., LONG. 99°-27'-46" E., ON RIGHT BANK AT BAN PA KLUAI, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	634 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=H.S.
LOCATION	ON RIGHT BANK ABOUT 22 METERS FROM THE TOP STAFF GAGE AND ABOUT 4.40 METERS FROM LAM MUANG.
ELEVATION	+5.483 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 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 17 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.07	-0.07	0.10	0.09	1.01	0.43	0.67	0.23	0.16	-0.03	-0.10	-0.13	
2	-0.06	-0.08	0.08	1.43	0.72	0.62	0.60	0.22	0.16	-0.03	-0.10	-0.13	
3	-0.06	-0.09	0.07	1.65	0.56	1.07	0.56	0.22	0.15	-0.03	-0.10	-0.13	
4	-0.07	-0.09	0.06	1.05	0.46	0.78	0.80	0.21	0.13	-0.04	-0.10	-0.13	
5	-0.07	-0.09	0.06	0.69	0.58	0.65	0.68	0.20	0.12	-0.03	-0.11	-0.13	
6	-0.07	-0.09	0.05	0.46	0.58	0.53	0.76	0.19	0.14	-0.04	-0.11	-0.14	
7	-0.07	-0.10	0.05	0.34	0.53	0.42	0.64	0.19	0.12	-0.05	-0.10	-0.14	
8	-0.07	-0.10	0.04	0.28	0.47	0.92	0.57	0.19	0.08	-0.05	-0.10	-0.13	
9	-0.07	-0.10	0.07	1.32	0.43	1.03	0.49	0.19	0.06	-0.05	-0.10	-0.14	
10	-0.06	-0.07	0.04	0.95	0.40	0.96	0.47	0.18	0.06	-0.05	-0.08	-0.13	
11	-0.07	-0.06	0.02	0.65	0.37	1.96	0.50	0.19	0.05	-0.05	-0.09	-0.14	
12	-0.06	0.80	0.01	0.50	0.34	1.74	1.14	0.18	0.05	-0.05	-0.08	-0.14	
13	-0.06	0.42	-0.01	0.35	0.97	1.37	0.77	0.19	0.05	-0.06	-0.08	-0.14	
14	-0.05	0.28	-0.03	1.55	1.47	1.37	0.59	0.18	0.05	-0.07	-0.09	-0.13	
15	-0.05	0.21	-0.03	0.78	1.14	0.97	0.50	0.18	0.03	-0.07	-0.09	-0.12	
16	-0.05	0.82	-0.03	0.49	0.88	0.90	0.44	0.19	0.03	-0.07	-0.10	-0.12	
17	-0.05	1.01	-0.02	0.38	0.75	0.70	0.39	0.20	0.01	-0.07	-0.10	-0.12	
18	-0.07	0.59	-0.03	0.29	0.84	0.56	0.36	0.21	0.01	-0.07	-0.10	-0.12	
19	-0.07	0.61	-0.04	0.22	0.68	0.98	0.33	0.19	0.00	-0.07	-0.10	-0.11	
20	-0.07	0.46	-0.05	0.17	0.66	0.91	0.30	0.20	-0.01	-0.08	-0.10	-0.11	
21	-0.07	0.35	-0.06	0.57	0.88	0.79	0.28	0.21	-0.02	-0.08	-0.10	-0.11	
22	-0.07	0.31	-0.06	1.23	1.17	0.68	0.27	0.21	0.00	-0.08	-0.11	-0.11	
23	-0.01	0.23	-0.07	0.72	0.88	1.21	0.26	0.21	-0.01	-0.08	-0.11	-0.11	
24	0.05	0.17	-0.10	0.50	0.69	1.27	0.27	0.19	-0.01	-0.08	-0.12	-0.11	
25	0.02	0.15	-0.11	0.56	0.76	1.02	0.30	0.18	-0.02	-0.08	-0.11	-0.12	
26	-0.02	0.13	-0.11	0.49	1.06	2.01	0.29	0.19	-0.02	-0.08	-0.11	-0.12	
27	-0.03	0.15	-0.11	0.38	0.85	1.14	0.28	0.19	-0.02	-0.08	-0.12	-0.11	
28	-0.05	0.16	-0.11	0.41	0.65	0.91	0.28	0.19	-0.02	-0.09	-0.14	-0.12	
29	-0.05	0.18	-0.11	0.38	0.55	0.74	0.27	0.18	-0.03	-0.09		-0.12	
30	-0.07	0.15	-0.11	0.62	0.53	0.65	0.25	0.16	-0.02	-0.10		-0.12	
31		0.11		0.97	0.45		0.24		-0.02	-0.09		-0.13	
MEAN	-0.05	0.20	-0.02	0.66	0.72	0.98	0.47	0.19	0.04	-0.06	-0.10	-0.12	
MAX	0.05	1.01	0.10	1.65	1.47	2.01	1.14	0.23	0.16	-0.03	-0.08	-0.11	2.01
MIN	-0.07	-0.10	-0.11	0.09	0.34	0.42	0.24	0.16	-0.03	-0.10	-0.14	-0.14	-0.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.77 M (A.D), AT 9.00 HOURS, ON SEP 26, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.50 M (A.D)
LEFT BANK ELEVATION 2.38 M (A.D)
RIGHT BANK ELEVATION 3.97 M (A.D), DRAINAGE AREA 634 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.26	0.70	0.67	12.07	2.37	5.25	1.22	0.94	0.34	0.20	0.14	
2	0.28	0.24	0.64	26.20	6.06	4.50	4.20	1.18	0.94	0.34	0.20	0.14	
3	0.28	0.22	0.61	35.90	3.72	13.69	3.72	1.18	0.90	0.34	0.20	0.14	
4	0.26	0.22	0.58	13.15	2.64	7.14	7.50	1.14	0.82	0.32	0.20	0.14	
5	0.26	0.22	0.58	5.55	3.96	4.95	5.40	1.10	0.78	0.34	0.18	0.14	
6	0.26	0.22	0.55	2.64	3.96	3.36	6.78	1.06	0.86	0.32	0.18	0.12	
7	0.26	0.20	0.55	1.74	3.36	2.28	4.80	1.06	0.78	0.30	0.20	0.12	
8	0.26	0.20	0.52	1.42	2.73	9.88	3.84	1.06	0.64	0.30	0.20	0.14	
9	0.26	0.20	0.61	21.80	2.37	12.61	2.91	1.06	0.58	0.30	0.20	0.12	
10	0.28	0.26	0.52	10.60	2.10	10.84	2.73	1.02	0.58	0.30	0.24	0.14	
11	0.26	0.28	0.46	4.95	1.92	53.60	3.00	1.06	0.55	0.30	0.22	0.12	
12	0.28	7.50	0.43	3.00	1.74	40.70	15.70	1.02	0.55	0.30	0.24	0.12	
13	0.28	2.28	0.38	1.80	11.08	23.80	6.96	1.06	0.55	0.28	0.24	0.12	
14	0.30	1.42	0.34	31.15	27.80	23.80	4.08	1.02	0.55	0.26	0.22	0.14	
15	0.30	1.14	0.34	7.14	15.70	11.08	3.00	1.02	0.49	0.26	0.22	0.16	
16	0.30	7.88	0.34	2.91	9.02	9.40	2.46	1.06	0.49	0.26	0.20	0.16	
17	0.30	12.07	0.36	1.98	6.60	5.70	2.04	1.10	0.43	0.26	0.20	0.16	
18	0.26	4.08	0.34	1.46	8.26	3.72	1.86	1.14	0.43	0.26	0.20	0.16	
19	0.26	4.35	0.32	1.18	5.40	11.32	1.68	1.06	0.40	0.26	0.20	0.18	
20	0.26	2.64	0.30	0.98	5.10	9.64	1.50	1.10	0.38	0.24	0.20	0.18	
21	0.26	1.80	0.28	3.84	9.02	7.32	1.42	1.14	0.36	0.24	0.20	0.18	
22	0.26	1.56	0.28	18.55	16.60	5.40	1.38	1.14	0.40	0.24	0.18	0.18	
23	0.38	1.22	0.26	6.06	9.02	17.85	1.34	1.14	0.38	0.24	0.18	0.18	
24	0.55	0.98	0.20	3.00	5.55	19.95	1.38	1.06	0.38	0.24	0.16	0.18	
25	0.46	0.90	0.18	3.72	6.78	12.34	1.50	1.02	0.36	0.24	0.18	0.16	
26	0.36	0.82	0.18	2.91	13.42	56.68	1.46	1.06	0.36	0.24	0.18	0.16	
27	0.34	0.90	0.18	1.98	8.45	15.70	1.42	1.06	0.36	0.24	0.16	0.18	
28	0.30	0.94	0.18	2.19	4.95	9.64	1.42	1.06	0.36	0.22	0.12	0.16	
29	0.30	1.02	0.18	1.98	3.60	6.42	1.38	1.02	0.34	0.22		0.16	
30	0.26	0.90	0.18	4.50	3.36	4.95	1.30	0.94	0.36	0.20		0.16	
31		0.74		11.08	2.55		1.26		0.36	0.22		0.14	
TOTAL	8.93	57.66	11.57	236.03	218.89	420.63	104.67	32.36	16.66	8.42	5.50	4.68	1126.00 CMSDAY
MEAN	0.30	1.86	0.39	7.61	7.06	14.02	3.38	1.08	0.54	0.27	0.20	0.15	3.08 CMS
MAX	0.55	12.07	0.70	35.90	27.80	56.68	15.70	1.22	0.94	0.34	0.24	0.18	56.68 CMS
MIN	0.26	0.20	0.18	0.67	1.74	2.28	1.26	0.94	0.34	0.20	0.12	0.12	0.12 CMS
RUNOFF	0.772	4.982	1.000	20.393	18.912	36.342	9.043	2.796	1.439	0.727	0.475	0.404	97.286 MCM

MOMENTARY PEAK 119.99 CMS, AT 2.77 M (A.D), AT 9.00 HOURS, ON SEP 26, 1978

RUNOFF YIELD 4.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 189.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

WANG RIVER BASIN

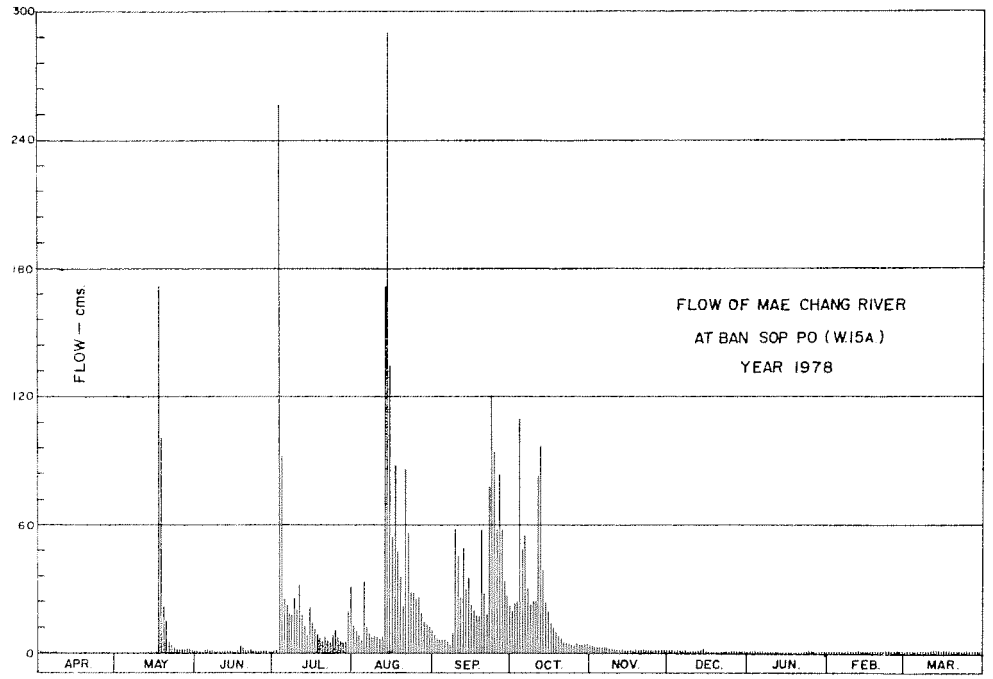
MAE CHANG RIVER AT BAN SOP PO, LAMPANG (W.15A)

LOCATION	LAT. 18°-08'-09" N., LONG. 99°-34'-51" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS UPSTREAM FROM BAN SOP PO, AMPHOE MAE THA, LAMPANG.
DRAINAGE AREA	1,119 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+240.120 M. (M.S.L.)
BENCH MARK	B.M-H.S.
LOCATION	INFRONT OF THE CAMP OF W.15 STATION.
ELEVATION	+251.695 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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 903 DISCHARGE MEASUREMENTS MADE DURING 1970-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	240.47	240.49	240.87	240.76	241.69	241.48	241.89	241.21	240.97	240.84	240.68	240.67	
2	240.46	240.47	240.83	241.05	241.58	241.44	242.05	241.15	240.96	240.84	240.68	240.65	
3	240.46	240.45	240.82	244.98	241.75	241.40	241.98	241.14	240.94	240.83	240.68	240.66	
4	240.45	240.45	240.86	243.01	241.61	241.37	243.55	241.12	240.93	240.82	240.68	240.65	
5	240.44	240.43	240.96	242.15	242.36	241.41	242.63	241.11	240.92	240.81	240.68	240.65	
6	240.44	240.42	240.94	242.06	241.72	241.31	242.76	241.07	240.91	240.76	240.69	240.64	
7	240.44	240.41	240.86	241.88	241.54	241.26	242.29	241.06	240.90	240.75	240.69	240.64	
8	240.44	240.40	240.84	241.88	241.47	241.51	242.05	241.06	240.90	240.75	240.70	240.64	
9	240.45	240.41	240.81	242.14	241.50	242.81	242.07	241.06	240.87	240.76	240.72	240.63	
10	240.44	240.40	240.79	241.89	241.45	242.42	242.07	241.03	240.86	240.75	240.72	240.62	
11	240.44	240.40	240.77	242.29	241.40	242.12	243.01	241.02	240.86	240.79	240.72	240.62	
12	240.44	240.53	240.77	241.87	241.49	242.66	243.37	241.02	240.86	240.75	240.71	240.62	
13	240.43	240.63	240.76	241.65	244.36	242.24	242.47	241.02	240.86	240.74	240.72	240.63	
14	240.43	240.57	240.75	241.49	245.24	242.37	242.08	241.02	241.05	240.78	240.70	240.63	
15	240.43	240.55	240.75	242.01	243.64	242.05	241.91	241.01	240.84	240.72	240.69	240.63	
16	240.43	240.64	240.75	241.66	242.75	241.96	241.74	241.00	240.83	240.72	240.69	240.62	
17	240.44	244.22	240.90	241.65	243.26	241.92	241.63	241.00	240.83	240.72	240.69	240.62	
18	240.43	243.17	241.24	241.48	242.67	241.79	241.55	241.01	240.82	240.73	240.69	240.61	
19	240.44	242.02	241.06	241.34	242.21	242.81	241.49	241.02	240.82	240.73	240.68	240.62	
20	240.43	241.61	241.01	241.25	241.96	242.21	241.36	241.04	240.80	240.75	240.67	240.61	
21	240.44	241.29	240.98	241.47	243.23	241.92	241.32	241.03	240.80	240.75	240.67	240.62	
22	240.41	241.11	240.94	241.34	242.74	242.68	241.33	241.01	240.81	240.74	240.67	240.60	
23	240.40	241.03	240.89	241.30	242.21	243.69	241.29	241.01	240.82	240.72	240.66	240.60	
24	240.40	241.00	240.76	241.48	242.22	243.33	241.27	241.00	240.79	240.72	240.67	240.61	
25	240.40	240.98	240.74	241.62	242.09	242.78	241.27	241.01	240.84	240.72	240.67	240.61	
26	240.55	241.02	240.72	241.45	242.15	243.20	241.31	241.00	240.89	240.72	240.66	240.60	
27	240.61	240.98	240.72	241.30	241.90	242.81	241.27	240.99	240.88	240.71	240.65	240.60	
28	240.58	241.02	240.72	241.30	241.78	242.33	241.27	240.98	240.86	240.70	240.65	240.60	
29	240.54	240.99	240.73	241.27	241.72	242.16	241.26	240.98	240.86	240.69		240.59	
30	240.51	240.96	240.79	241.76	241.67	241.95	241.23	240.98	240.86	240.69		240.59	
31		240.89		242.28	241.56		241.20		240.85	240.68		240.58	
MEAN	240.46	240.97	240.84	241.78	242.22	242.18	241.87	241.04	240.87	240.75	240.68	240.62	
MAX	240.61	244.22	241.24	244.98	245.24	243.69	243.55	241.21	241.05	240.84	240.72	240.67	245.24
MIN	240.40	240.40	240.72	240.76	241.40	241.26	241.20	240.98	240.79	240.68	240.65	240.58	240.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 247.22 M (MSL), AT 18.00 HOURS, ON AUG 13, 1978
ZERO GAGE AT BOTTOM ELEVATION 240.12 M (MSL), RIVER BED 239.92 M (MSL)
LEFT BANK ELEVATION 251.30 M (MSL)
RIGHT BANK ELEVATION 251.68 M (MSL), DRAINAGE AREA 1119 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.95	0.45	13.45	8.62	18.86	4.14	1.54	0.79	0.21	0.19	
2	0.00	0.00	0.74	2.22	10.76	7.86	23.45	3.36	1.48	0.79	0.21	0.15	
3	0.00	0.00	0.69	256.80	15.00	7.10	21.43	3.23	1.35	0.74	0.21	0.17	
4	0.00	0.00	0.90	70.88	11.45	6.58	110.00	2.98	1.29	0.69	0.21	0.15	
5	0.00	0.00	1.48	26.50	34.70	7.29	47.91	2.85	1.23	0.64	0.21	0.15	
6	0.00	0.00	1.35	23.74	14.22	5.53	55.38	2.42	1.16	0.45	0.23	0.13	
7	0.00	0.00	0.90	18.58	9.88	4.82	31.61	2.32	1.10	0.42	0.23	0.13	
8	0.00	0.00	0.79	18.58	8.43	9.22	23.45	2.32	1.10	0.42	0.25	0.13	
9	0.00	0.00	0.64	26.18	9.00	58.30	24.03	2.32	0.95	0.45	0.32	0.11	
10	0.00	0.00	0.56	18.86	8.05	37.42	24.03	2.03	0.90	0.42	0.32	0.09	
11	0.00	0.00	0.49	31.61	7.10	25.54	70.88	1.93	0.90	0.56	0.32	0.09	
12	0.00	0.00	0.49	18.30	8.81	49.62	96.28	1.93	0.90	0.42	0.28	0.09	
13	0.00	0.11	0.45	12.45	186.60	29.66	39.72	1.93	0.90	0.39	0.32	0.11	
14	0.00	0.02	0.42	8.81	289.00	35.15	24.32	1.93	2.22	0.52	0.25	0.11	
15	0.00	0.00	0.42	22.29	117.28	23.45	19.43	1.83	0.79	0.32	0.23	0.11	
16	0.00	0.13	0.42	12.70	54.80	20.86	14.74	1.73	0.74	0.32	0.23	0.09	
17	0.00	171.60	1.10	12.45	88.26	19.72	11.95	1.73	0.74	0.32	0.23	0.09	
18	0.00	81.90	4.54	8.62	50.19	16.04	10.10	1.83	0.69	0.35	0.23	0.07	
19	0.00	22.58	2.32	6.06	28.49	58.30	8.81	1.93	0.69	0.35	0.21	0.09	
20	0.00	11.45	1.83	4.68	20.86	28.49	6.40	2.13	0.59	0.42	0.19	0.07	
21	0.00	5.22	1.60	8.43	86.13	19.72	5.71	2.03	0.59	0.42	0.19	0.09	
22	0.00	2.85	1.35	6.06	54.22	50.76	5.88	1.83	0.64	0.39	0.19	0.05	
23	0.00	2.03	1.05	5.36	28.49	121.38	5.22	1.83	0.69	0.32	0.17	0.05	
24	0.00	1.73	0.45	8.62	28.88	93.32	4.95	1.73	0.56	0.32	0.19	0.07	
25	0.00	1.60	0.39	11.70	24.61	56.54	4.95	1.83	0.79	0.32	0.19	0.07	
26	0.00	1.93	0.32	8.05	26.50	84.00	5.53	1.73	1.05	0.32	0.17	0.05	
27	0.07	1.60	0.32	5.36	19.15	58.30	4.95	1.67	1.00	0.28	0.15	0.05	
28	0.03	1.93	0.32	5.36	15.78	33.35	4.95	1.60	0.90	0.25	0.15	0.05	
29	0.00	1.67	0.35	4.95	14.22	26.82	4.82	1.60	0.90	0.23		0.04	
30	0.00	1.48	0.56	15.26	12.95	20.57	4.41	1.60	0.90	0.23		0.04	
31		1.05		31.22	10.32		4.00		0.84	0.21		0.03	
TOTAL	0.10	310.88	28.19	711.13	1307.58	1024.33	738.15	64.32	30.12	13.07	6.29	2.91	4237.06 CMSDAY
MEAN	0.00	10.03	0.94	22.94	42.18	34.14	23.81	2.14	0.97	0.42	0.22	0.09	11.61 CMS
MAX	0.07	171.60	4.54	256.80	289.00	121.38	110.00	4.14	2.22	0.79	0.32	0.19	289.00 CMS
MIN	0.00	0.00	0.32	0.45	7.10	4.82	4.00	1.60	0.56	0.21	0.15	0.03	0.00 CMS
RUNOFF	0.009	26.860	2.436	61.442	112.975	88.502	63.776	5.557	2.602	1.129	0.543	0.251	366.082 MCM

MOMENTARY PEAK 562.90 CMS, AT 247.22 M (MSL), AT 18.00 HOURS, ON AUG 13, 1978

RUNOFF YIELD 10.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 503.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

WANG RIVER BASIN

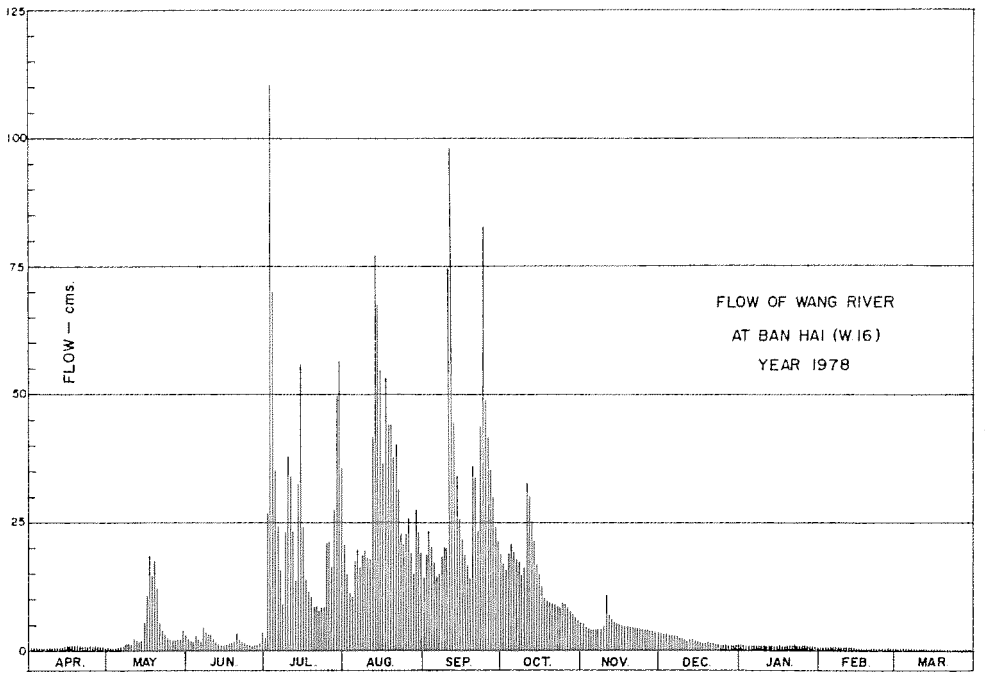
WANG RIVER AT BAN HAI, LAMPANG (W.16)

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.-H.S.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+7.676 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 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 196 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.36	0.60	0.63	1.29	1.11	1.30	0.81	0.70	0.50	0.41	0.34	
2	0.36	0.35	0.56	1.67	1.15	1.29	1.23	0.81	0.69	0.49	0.41	0.35	
3	0.36	0.35	0.54	2.86	1.01	1.43	1.18	0.78	0.69	0.49	0.41	0.35	
4	0.36	0.35	0.64	2.29	1.00	1.34	1.32	0.76	0.68	0.49	0.39	0.35	
5	0.36	0.36	0.56	1.72	1.23	1.25	1.34	0.75	0.67	0.49	0.39	0.34	
6	0.36	0.36	0.55	1.39	1.31	1.16	1.32	0.75	0.66	0.49	0.39	0.34	
7	0.36	0.40	0.74	1.12	1.18	1.09	1.25	0.75	0.65	0.49	0.43	0.34	
8	0.36	0.52	0.66	0.95	1.27	1.25	1.24	0.75	0.64	0.49	0.42	0.34	
9	0.36	0.51	0.67	1.28	1.29	1.32	1.15	0.74	0.62	0.48	0.42	0.32	
10	0.36	0.48	0.62	1.81	1.26	1.29	1.25	0.78	0.60	0.48	0.41	0.32	
11	0.36	0.59	0.56	1.68	1.23	2.71	1.67	1.02	0.60	0.48	0.41	0.31	
12	0.35	0.58	0.52	1.35	1.82	2.20	1.59	0.90	0.59	0.47	0.40	0.31	
13	0.39	0.55	0.50	1.10	2.44	1.81	1.43	0.85	0.61	0.46	0.39	0.30	
14	0.42	0.56	0.48	1.85	2.25	1.62	1.28	0.83	0.59	0.46	0.38	0.30	
15	0.45	0.75	0.48	2.11	2.06	1.44	1.19	0.81	0.58	0.45	0.36	0.30	
16	0.45	1.00	0.48	1.40	1.77	1.38	1.14	0.79	0.57	0.44	0.35	0.30	
17	0.45	1.27	0.51	1.13	2.07	1.29	1.08	0.79	0.56	0.44	0.34	0.30	
18	0.46	1.13	0.52	1.06	1.92	1.17	1.03	0.79	0.56	0.45	0.34	0.30	
19	0.46	1.24	0.51	0.96	1.92	1.13	1.00	0.78	0.56	0.45	0.34	0.30	
20	0.45	1.07	0.67	0.94	1.79	1.75	0.97	0.77	0.55	0.45	0.34	0.29	
21	0.43	0.80	0.56	0.94	1.85	1.69	0.96	0.76	0.54	0.45	0.34	0.29	
22	0.43	0.70	0.55	0.89	1.65	1.42	0.95	0.75	0.53	0.45	0.34	0.29	
23	0.42	0.65	0.51	0.92	1.42	1.98	0.93	0.75	0.52	0.46	0.34	0.29	
24	0.44	0.61	0.48	0.91	1.34	2.52	0.93	0.75	0.52	0.45	0.34	0.29	
25	0.42	0.59	0.47	1.34	1.40	1.96	0.98	0.75	0.52	0.44	0.34	0.29	
26	0.40	0.58	0.46	1.36	1.49	1.82	0.97	0.73	0.52	0.44	0.34	0.29	
27	0.40	0.57	0.44	1.20	1.31	1.72	0.93	0.72	0.51	0.44	0.34	0.30	
28	0.39	0.57	0.46	1.49	1.14	1.53	0.90	0.72	0.51	0.44	0.34	0.31	
29	0.38	0.57	0.54	1.96	1.54	1.43	0.88	0.72	0.51	0.44		0.31	
30	0.37	0.70	0.67	2.12	1.44	1.36	0.85	0.71	0.49	0.44		0.31	
31		0.65		1.69	1.28		0.83		0.50	0.43		0.30	
MEAN	0.40	0.64	0.55	1.42	1.52	1.55	1.13	0.78	0.58	0.46	0.37	0.31	
MAX	0.46	1.27	0.74	2.86	2.44	2.71	1.67	1.02	0.70	0.50	0.43	0.35	2.86
MIN	0.35	0.35	0.44	0.63	1.00	1.09	0.83	0.71	0.49	0.43	0.34	0.29	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.69 M (A.D), AT 22.00 HOURS, ON JUL 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.15 M (A.D)
LEFT BANK ELEVATION 9.19 M (A.D)
RIGHT BANK ELEVATION 7.75 M (A.D), DRAINAGE AREA 1284 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.85	0.80	2.50	2.95	19.20	13.80	19.50	5.75	4.00	1.50	1.05	0.70	
2	0.80	0.75	2.10	32.80	15.00	19.20	17.40	5.75	3.85	1.45	1.05	0.75	
3	0.80	0.75	1.90	109.80	10.80	23.55	15.90	5.20	3.85	1.45	1.05	0.75	
4	0.80	0.75	3.10	66.40	10.50	20.70	20.10	4.90	3.70	1.45	0.95	0.75	
5	0.80	0.80	2.10	34.80	17.40	18.00	20.70	4.75	3.55	1.45	0.95	0.70	
6	0.80	0.80	2.00	22.20	19.80	15.30	20.10	4.75	3.40	1.45	0.95	0.70	
7	0.80	1.00	4.60	14.10	15.90	13.20	18.00	4.75	3.25	1.45	1.15	0.70	
8	0.80	1.70	3.40	9.25	18.60	18.00	17.70	4.75	3.10	1.45	1.10	0.70	
9	0.80	1.60	3.55	18.90	19.20	20.10	15.00	4.60	2.80	1.40	1.10	0.60	
10	0.80	1.40	2.80	38.50	18.30	19.20	18.00	5.20	2.50	1.40	1.05	0.60	
11	0.80	2.40	2.10	33.20	17.40	97.80	32.80	11.10	2.50	1.40	1.05	0.55	
12	0.75	2.30	1.70	21.00	39.00	61.00	29.60	8.00	2.40	1.35	1.00	0.55	
13	0.95	2.00	1.50	13.50	76.80	38.50	23.55	6.75	2.65	1.30	0.95	0.50	
14	1.10	2.10	1.40	40.50	64.00	30.80	18.90	6.25	2.40	1.30	0.90	0.50	
15	1.25	4.75	1.40	55.60	52.60	23.90	16.20	5.75	2.30	1.25	0.80	0.50	
16	1.25	10.50	1.40	22.50	36.80	21.90	14.70	5.35	2.20	1.20	0.75	0.50	
17	1.25	18.60	1.60	14.40	53.20	19.20	12.90	5.35	2.10	1.20	0.70	0.50	
18	1.30	14.40	1.70	12.30	44.20	15.60	11.40	5.35	2.10	1.25	0.70	0.50	
19	1.30	17.70	1.60	9.50	44.20	14.40	10.50	5.20	2.10	1.25	0.70	0.50	
20	1.25	12.60	3.55	9.00	37.60	36.00	9.75	5.05	2.00	1.25	0.70	0.45	
21	1.15	5.50	2.10	9.00	40.50	33.60	9.50	4.90	1.90	1.25	0.70	0.45	
22	1.15	4.00	2.00	7.75	32.00	23.20	9.25	4.75	1.80	1.25	0.70	0.45	
23	1.10	3.25	1.60	8.50	23.20	47.80	8.75	4.75	1.70	1.30	0.70	0.45	
24	1.20	2.65	1.40	8.25	20.70	82.60	8.75	4.75	1.70	1.25	0.70	0.45	
25	1.10	2.40	1.35	20.70	22.50	46.60	10.00	4.75	1.70	1.20	0.70	0.45	
26	1.00	2.30	1.30	21.30	25.65	39.00	9.75	4.45	1.70	1.20	0.70	0.45	
27	1.00	2.20	1.20	16.50	19.80	34.80	8.75	4.30	1.60	1.20	0.70	0.50	
28	0.95	2.20	1.30	25.65	14.70	27.20	8.00	4.30	1.60	1.20	0.70	0.55	
29	0.90	2.20	1.90	46.60	27.60	23.55	7.50	4.30	1.60	1.20		0.55	
30	0.85	4.00	3.55	56.20	23.90	21.30	6.75	4.15	1.45	1.20		0.55	
31		3.25		33.60	18.90		6.25		1.50	1.15		0.50	
TOTAL	29.65	131.65	63.70	835.25	899.95	919.80	455.95	159.95	75.00	40.60	24.25	17.35	3653.09 CMSDAY
MEAN	0.99	4.25	2.12	26.94	29.03	30.66	14.71	5.33	2.42	1.31	0.87	0.56	10.01 CMS
MAX	1.30	18.60	4.60	109.80	76.80	97.80	32.80	11.10	4.00	1.50	1.15	0.75	109.80 CMS
MIN	0.75	0.75	1.20	2.95	10.50	13.20	6.25	4.15	1.45	1.15	0.70	0.45	0.45 CMS
RUNOFF	2.562	11.375	5.504	72.166	77.756	79.471	39.394	13.820	6.480	3.508	2.095	1.499	315.627 MCM

MOMENTARY PEAK 189.00 CMS, AT 3.69 M (A.D), AT 22.00 HOURS, ON JUL 14, 1978

RUNOFF YIELD 7.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 147.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

YOM RIVER BASIN

YOM RIVER AT PHRAE, PHRAE (Y.1B)

LOCATION — LAT. 18°-08'-29" N., LONG. 100°-07'-43" E., ON RIGHT BANK BESIDE WAT SI SUPHAN, TAMBON PA MAD, AMPHOE MUANG, PHRAE.

DRAINAGE AREA — 7,622 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +143.60 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — ON RIGHT BANK NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +153.660 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1972 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974 TO DATE.

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

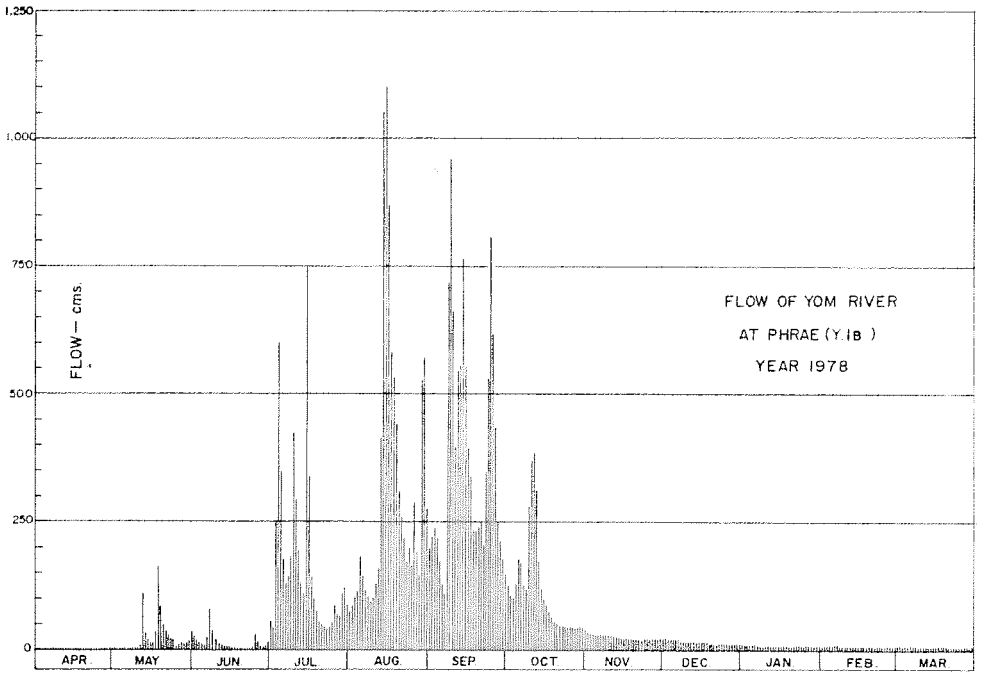
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 114 DISCHARGE MEASUREMENTS MADE IN 1978. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 24,000 HECTARES AT MAE YOM WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	144.42	144.52	145.10	145.44	145.69	146.83	146.39	145.16	144.96	144.62	144.56	144.48	
2	144.41	144.50	144.91	145.23	145.79	146.99	146.19	145.11	144.93	144.63	144.55	144.48	
3	144.40	144.53	144.79	147.89	145.96	147.14	145.94	145.09	144.94	144.63	144.55	144.48	
4	144.40	144.50	144.74	149.18	146.03	147.15	145.96	145.07	144.95	144.62	144.55	144.48	
5	144.39	144.51	144.73	147.61	146.70	146.62	146.23	145.07	144.93	144.64	144.56	144.48	
6	144.39	144.51	144.92	146.68	146.36	146.25	146.66	145.07	144.88	144.65	144.58	144.48	
7	144.39	144.51	145.73	146.08	146.16	145.99	146.60	145.05	144.92	144.60	144.55	144.48	
8	144.38	144.48	145.35	146.47	146.04	147.65	146.14	145.04	144.81	144.60	144.52	144.49	
9	144.39	144.52	144.95	146.59	145.95	150.64	146.10	145.04	144.80	144.61	144.51	144.50	
10	144.40	144.53	144.83	148.29	145.90	149.66	146.98	145.02	144.79	144.60	144.51	144.50	
11	144.40	144.55	144.76	147.65	146.12	148.12	147.95	145.02	144.78	144.60	144.52	144.50	
12	144.41	145.06	144.71	146.76	146.37	148.92	148.05	145.00	144.78	144.60	144.52	144.49	
13	144.42	145.17	144.65	146.27	148.74	148.95	147.51	144.99	144.77	144.59	144.53	144.49	
14	144.43	144.96	144.63	146.05	150.97	149.89	146.71	144.98	144.76	144.61	144.52	144.47	
15	144.41	144.84	144.59	149.82	151.15	148.75	146.21	144.96	144.74	144.61	144.52	144.47	
16	144.39	144.82	144.55	147.96	150.48	148.15	145.93	144.93	144.73	144.60	144.51	144.46	
17	144.38	145.12	144.53	146.50	149.15	147.97	145.75	144.96	144.72	144.58	144.50	144.46	
18	144.39	146.54	144.51	145.92	148.85	147.10	145.61	144.93	144.70	144.56	144.50	144.45	
19	144.44	145.67	144.50	145.61	148.03	147.11	145.51	144.94	144.69	144.54	144.49	144.46	
20	144.45	145.31	144.50	145.44	147.68	147.10	145.42	144.90	144.68	144.55	144.49	144.46	
21	144.43	145.14	144.48	145.40	147.38	147.22	145.35	144.88	144.68	144.58	144.49	144.47	
22	144.42	145.02	144.48	145.28	147.01	146.84	145.31	144.88	144.67	144.57	144.50	144.44	
23	144.41	144.98	144.48	145.21	146.61	147.94	145.30	144.88	144.66	144.56	144.50	144.45	
24	144.42	144.94	144.50	145.35	146.85	148.83	145.28	144.94	144.65	144.56	144.49	144.46	
25	144.43	144.84	145.03	145.40	146.58	150.04	145.27	144.96	144.64	144.56	144.48	144.45	
26	144.44	144.73	144.82	145.80	147.46	148.76	145.27	144.97	144.64	144.56	144.48	144.48	
27	144.50	144.82	144.66	145.66	147.02	147.79	145.27	144.96	144.66	144.56	144.48	144.48	
28	144.46	144.75	144.66	145.55	146.40	147.20	145.22	144.96	144.66	144.56	144.48	144.48	
29	144.47	144.82	144.64	145.90	148.80	146.87	145.26	144.96	144.71	144.56		144.49	
30	144.57	144.93	144.86	146.20	149.03	146.65	145.26	144.96	144.67	144.55		144.49	
31		145.18		145.90	147.43		145.21		144.63	144.55		144.49	
MEAN	144.42	144.87	144.75	146.42	147.38	147.84	145.99	144.99	144.76	144.59	144.52	144.48	
MAX	144.57	146.54	145.73	149.82	151.15	150.64	148.05	145.16	144.96	144.65	144.58	144.50	151.15
MIN	144.38	144.48	144.48	145.21	145.69	145.99	145.21	144.88	144.63	144.54	144.48	144.44	144.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 151.36 M (MSL), AT 22.00 HOURS, ON AUG 15, 1978
ZERO GAGE AT BOTTOM ELEVATION 143.60 M (MSL), RIVER BED 143.50 M (MSL)
LEFT BANK ELEVATION 153.20 M (MSL)
RIGHT BANK ELEVATION 154.10 M (MSL), DRAINAGE AREA 7622 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.2	4.2	30.0	54.2	75.1	194.9	141.9	34.2	22.0	6.8	5.1	3.4	
2	2.0	3.8	19.5	39.1	84.1	215.7	121.0	30.7	20.5	7.2	4.9	3.4	
3	1.8	4.5	13.6	351.4	99.4	235.6	97.6	29.4	21.0	7.2	4.9	3.4	
4	1.8	3.8	11.6	595.8	105.7	237.0	99.4	28.2	21.5	6.8	4.9	3.4	
5	1.6	4.0	11.2	306.6	178.0	168.4	125.0	28.2	20.5	7.6	5.1	3.4	
6	1.6	4.0	20.0	175.6	138.6	127.0	173.2	28.2	18.0	8.0	5.6	3.4	
7	1.6	4.0	78.7	110.2	118.0	102.1	166.0	27.0	20.0	6.0	4.9	3.4	
8	1.4	3.4	47.5	150.7	106.6	313.0	116.0	26.4	14.5	6.0	4.2	3.6	
9	1.6	4.2	21.5	164.8	98.5	955.4	112.0	26.4	14.0	6.4	4.0	3.8	
10	1.8	4.5	15.5	423.2	94.0	705.4	214.4	25.2	13.6	6.0	4.0	3.8	
11	1.8	4.9	12.4	313.0	114.0	392.6	362.0	25.2	13.2	6.0	4.2	3.8	
12	2.0	27.6	10.4	185.8	139.7	542.0	380.0	24.0	13.2	6.0	4.2	3.6	
13	2.2	34.9	8.0	129.0	506.6	548.0	290.6	23.5	12.8	5.8	4.5	3.6	
14	2.4	22.0	7.2	107.5	1044.6	762.5	179.3	23.0	12.4	6.4	4.2	3.2	
15	2.0	16.0	5.8	745.0	1095.0	508.5	123.0	22.0	11.6	6.4	4.2	3.2	
16	1.6	15.0	4.9	363.8	913.8	398.0	96.7	20.5	11.2	6.0	4.0	3.0	
17	1.4	31.4	4.5	154.0	589.5	365.6	80.5	22.0	10.8	5.6	3.8	3.0	
18	1.6	158.8	4.0	95.8	528.0	230.0	67.9	20.5	10.0	5.1	3.8	2.8	
19	2.6	73.3	3.8	67.9	376.4	231.4	59.8	21.0	9.6	4.7	3.6	3.0	
20	2.8	44.7	3.8	54.2	317.8	230.0	52.6	19.0	9.2	4.9	3.6	3.0	
21	2.4	32.8	3.4	51.0	270.0	246.8	47.5	18.0	9.2	5.6	3.6	3.2	
22	2.2	25.2	3.4	42.6	218.3	196.2	44.7	18.0	8.8	5.3	3.8	2.6	
23	2.0	23.0	3.4	37.7	167.2	360.2	44.0	18.0	8.4	5.1	3.8	2.8	
24	2.2	21.0	3.8	47.5	197.5	524.0	42.6	21.0	8.0	5.1	3.6	3.0	
25	2.4	7.6	25.8	51.0	163.6	800.0	41.9	22.0	7.6	5.1	3.4	2.8	
26	2.6	11.2	15.0	85.0	282.6	510.4	41.9	22.5	7.6	5.1	3.4	3.4	
27	3.8	15.0	8.4	72.4	219.6	335.4	41.9	22.0	8.4	5.1	3.4	3.4	
28	3.0	12.0	8.4	63.0	143.0	244.0	38.4	22.0	8.4	5.1	3.4	3.4	
29	3.2	15.0	7.6	94.0	518.0	200.1	41.2	22.0	10.4	5.1		3.6	
30	5.3	20.5	17.0	122.0	564.3	172.0	41.2	22.0	8.8	4.9		3.6	
31		35.6		94.0	277.8		37.7		7.2	4.9		3.6	
TOTAL	66.9	687.9	430.1	5347.8	9745.3	11052.2	3521.9	712.1	392.4	181.3	116.1	102.6	32356.6 CMSDAY
MEAN	2.2	22.2	14.3	172.5	314.4	368.4	113.6	23.7	12.7	5.8	4.1	3.3	88.6 CMS
MAX	5.3	158.8	78.7	745.0	1095.0	955.4	380.0	34.2	22.0	8.0	5.6	3.8	1095.0 CMS
MIN	1.4	3.4	3.4	37.7	75.1	102.1	37.7	18.0	7.2	4.7	3.4	2.6	1.4 CMS
RUNOFF	5.78	59.43	37.16	462.05	841.99	954.91	304.29	61.53	33.90	15.66	10.03	8.86	2795.61 MCM

MOMENTARY PEAK 1153.80 CMS, AT 151.36 M (MSL), AT 22.00 HOURS, ON AUG 15, 1978
RUNOFF YIELD 11.63 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 151.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

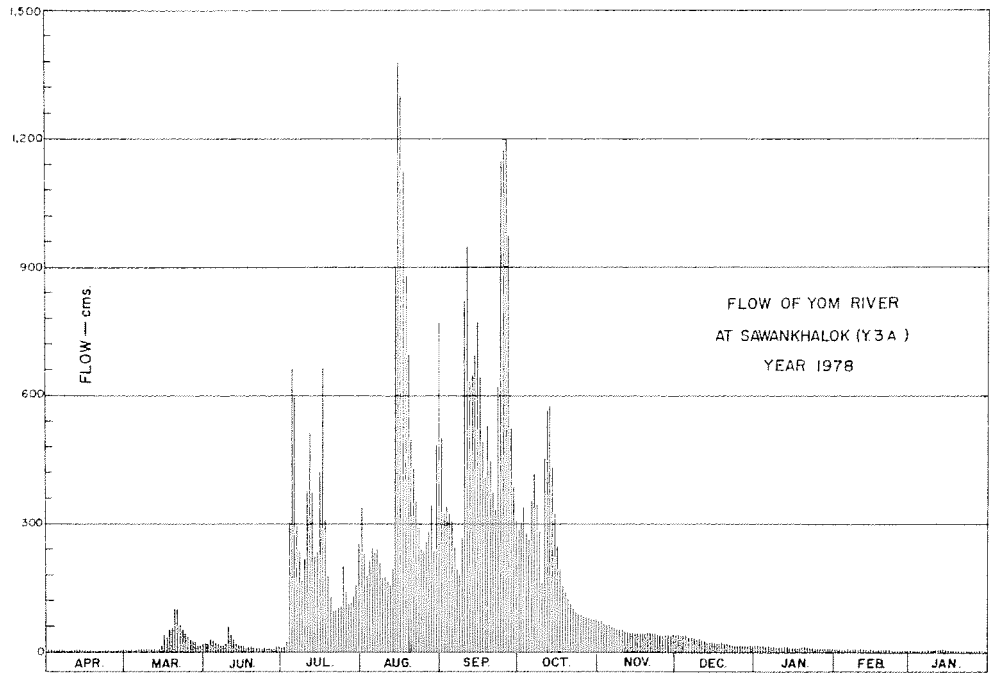
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +59.97 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1978. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 24,000 HECTARES AT MAE YOM WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.50	51.56	52.01	51.81	55.60	56.58	55.09	52.94	52.36	51.85	51.68	51.57	
2	51.49	51.58	52.07	51.81	54.64	55.48	55.30	52.89	52.34	51.86	51.67	51.57	
3	51.49	51.60	52.23	52.30	54.03	55.61	55.62	52.82	52.34	51.84	51.67	51.57	
4	51.49	51.58	52.20	55.12	54.44	55.50	54.99	52.76	52.33	51.81	51.66	51.56	
5	51.49	51.64	52.08	57.83	54.73	55.33	54.79	52.71	52.31	51.80	51.66	51.56	
6	51.49	51.69	52.00	56.97	54.66	54.92	55.61	52.66	52.31	51.79	51.66	51.56	
7	51.49	51.64	51.94	55.31	54.72	54.40	56.22	52.64	52.28	51.79	51.65	51.56	
8	51.49	51.64	51.96	54.44	54.27	54.05	55.76	52.62	52.25	51.80	51.65	51.55	
9	51.48	51.64	52.10	54.03	54.09	54.52	55.08	52.59	52.22	51.79	51.65	51.55	
10	51.48	51.64	52.69	54.46	54.09	58.66	54.92	52.56	52.26	51.79	51.65	51.54	
11	51.48	51.65	52.39	55.95	53.93	59.37	56.05	52.54	52.18	51.78	51.64	51.54	
12	51.50	51.67	52.15	56.84	53.83	57.62	57.22	52.52	52.14	51.77	51.64	51.53	
13	51.51	51.63	52.02	55.55	54.17	57.74	57.28	52.51	52.11	51.77	51.63	51.53	
14	51.55	51.64	51.93	54.60	59.01	57.96	56.67	52.50	52.08	51.77	51.62	51.53	
15	51.54	51.87	51.87	54.69	60.88	58.48	55.50	52.48	52.07	51.77	51.61	51.53	
16	51.53	52.40	51.82	56.29	60.74	57.93	54.75	52.49	52.05	51.76	51.61	51.53	
17	51.56	52.28	51.78	57.83	60.35	56.72	54.26	52.48	52.03	51.75	51.61	51.51	
18	51.57	52.63	51.80	55.43	59.22	56.03	53.94	52.47	52.01	51.73	51.61	51.51	
19	51.55	52.65	51.81	54.28	58.17	56.99	53.72	52.47	52.00	51.73	51.61	51.51	
20	51.54	53.17	51.75	53.70	56.95	56.58	53.55	52.47	51.99	51.73	51.61	51.51	
21	51.52	53.29	51.70	53.39	56.39	55.71	53.43	52.46	51.97	51.73	51.61	51.50	
22	51.51	52.79	51.68	53.26	55.78	55.50	53.31	52.46	51.95	51.72	51.60	51.50	
23	51.49	52.55	51.71	53.32	55.33	57.51	53.22	52.42	51.95	51.72	51.59	51.50	
24	51.49	52.40	51.70	53.44	54.75	58.99	53.15	52.37	51.93	51.71	51.59	51.49	
25	51.49	52.28	51.74	54.28	54.60	59.80	53.10	52.35	51.92	51.71	51.59	51.49	
26	51.55	52.21	51.70	53.71	54.91	60.35	53.09	52.36	51.90	51.71	51.58	51.49	
27	51.58	52.19	51.67	53.38	55.04	59.28	53.08	52.39	51.88	51.70	51.58	51.48	
28	51.60	52.03	51.71	53.43	55.63	57.32	53.03	52.39	51.87	51.70	51.57	51.48	
29	51.57	51.93	51.95	53.67	54.71	56.05	53.01	52.39	51.86	51.70		51.48	
30	51.55	51.98	51.88	53.91	56.29	55.43	52.97	52.37	51.85	51.69		51.48	
31		52.02		54.90	58.46		52.96		51.84	51.69		51.48	
MEAN	51.52	52.05	51.93	54.51	55.95	56.88	54.54	52.54	52.08	51.76	51.62	51.52	
MAX	51.60	53.29	52.69	57.83	60.88	60.35	57.28	52.94	52.36	51.86	51.68	51.57	60.88
MIN	51.48	51.56	51.67	51.81	53.83	54.05	52.96	52.35	51.84	51.69	51.57	51.48	51.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 60.80 M (MSL), AT 5.00 HOURS, ON AUG 15, 1978
ZERO GAGE AT BOTTOM ELEVATION 51.00 M (MSL), RIVER BED 51.09 M (MSL)
LEFT BANK ELEVATION 60.80 M (MSL)
RIGHT BANK ELEVATION 60.50 M (MSL), DRAINAGE AREA 13583 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.0	4.8	19.4	12.3	339.0	467.2	280.9	73.8	37.6	13.5	8.4	5.1	
2	2.8	5.4	21.8	12.3	231.4	324.6	304.0	70.3	36.4	13.8	8.1	5.1	
3	2.8	6.0	29.8	34.0	168.0	344.2	341.4	69.4	36.4	13.2	8.1	5.1	
4	2.8	5.4	28.0	284.2	209.4	327.0	269.9	61.6	35.8	12.3	7.8	4.8	
5	2.8	7.2	22.2	662.1	241.3	307.3	247.9	58.6	34.6	12.0	7.8	4.8	
6	2.8	8.7	19.0	525.5	233.6	262.2	340.2	55.6	34.6	11.7	7.8	4.8	
7	2.8	7.2	16.6	305.1	240.2	205.0	417.6	54.4	32.8	11.7	7.5	4.8	
8	2.8	7.2	17.4	209.4	192.0	170.0	358.2	53.2	31.0	12.0	7.5	4.5	
9	2.6	7.2	23.0	168.0	174.0	218.2	279.8	51.4	29.2	11.7	7.5	4.5	
10	2.6	7.2	57.4	211.6	174.0	804.8	262.2	49.6	31.6	11.7	7.5	4.2	
11	2.6	7.5	39.4	382.5	158.0	947.7	395.5	48.4	27.0	11.4	7.2	4.2	
12	3.0	8.1	25.5	506.0	148.7	626.4	563.0	47.2	25.0	11.1	7.2	3.9	
13	3.3	6.9	19.8	333.0	182.0	646.8	572.0	46.6	23.5	11.1	6.9	3.9	
14	4.5	7.2	16.2	227.0	874.5	684.2	480.5	46.0	22.2	11.1	6.6	3.9	
15	4.2	14.1	14.1	236.9	1359.6	772.6	327.0	44.8	21.8	11.1	6.3	3.9	
16	3.9	40.0	12.6	426.7	1314.8	679.1	243.5	45.4	21.0	10.8	6.3	3.9	
17	4.8	32.8	11.4	662.1	1197.0	488.0	191.0	44.8	20.2	10.5	6.3	3.3	
18	5.1	53.8	12.0	318.6	916.2	392.9	159.0	44.2	19.4	9.9	6.3	3.3	
19	4.5	55.0	12.3	193.0	719.9	528.5	138.8	44.2	19.0	9.9	6.3	3.3	
20	4.2	90.6	10.5	137.0	522.5	467.2	123.5	44.2	18.6	9.9	6.3	3.3	
21	3.6	100.2	9.0	109.1	440.6	352.2	112.7	43.6	17.8	9.9	6.3	3.0	
22	3.3	63.4	8.4	97.8	360.6	327.0	101.9	43.6	17.0	9.6	6.0	3.0	
23	2.8	49.0	9.3	102.8	307.3	608.6	94.6	41.2	17.0	9.6	5.7	3.0	
24	2.8	40.0	9.0	113.6	243.5	870.0	89.0	38.2	16.2	9.3	5.7	2.8	
25	2.8	32.8	10.2	193.0	227.0	1048.0	85.0	37.0	15.8	9.3	5.7	2.8	
26	4.5	28.6	9.0	137.9	261.1	1197.0	84.3	37.6	15.0	9.3	5.4	2.8	
27	5.4	27.5	8.1	108.2	275.4	928.8	83.6	39.4	14.4	9.0	5.4	2.6	
28	6.0	20.2	9.3	112.7	342.6	578.2	80.1	39.4	14.1	9.0	5.1	2.6	
29	5.1	16.2	17.0	134.3	239.1	395.5	78.7	39.4	13.8	9.0		2.6	
30	4.5	18.2	14.4	156.0	426.7	318.6	75.9	38.2	13.5	8.7		2.6	
31		19.8		260.0	769.2		75.2		13.2	8.7		2.6	
TOTAL	108.7	798.2	532.1	7372.7	13488.7	16283.8	7256.9	1447.3	725.5	331.8	189.0	115.0	48649.6 CMSDAY
MEAN	3.6	25.7	17.7	237.8	435.1	542.8	234.1	48.2	23.4	10.7	6.7	3.7	133.3 CMS
MAX	6.0	100.2	57.4	662.1	1359.6	1197.0	572.0	73.8	37.6	13.8	8.4	5.1	1359.6 CMS
MIN	2.6	4.8	8.1	12.3	148.7	170.0	75.2	37.0	13.2	8.7	5.1	2.6	2.6 CMS
RUNOFF	9.39	68.96	45.97	637.00	1165.42	1406.92	627.00	125.05	62.68	28.67	16.33	9.94	4203.33 MCM

MOMENTARY PEAK 1334.00 CMS, AT 60.80 M (MSL), AT 5.00 HOURS, ON AUG 15, 1978

RUNOFF YIELD 9.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 98.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

YOM RIVER BASIN

YOM RIVER AT SUKHOTHAI, SUKHOTHAI (Y.4)

LOCATION — LAT. 17°00'18" N., LONG. 99°49'31" E., ON LEFT BANK INFRONT OF THE GOVERNER'S HOUSE, AMPHOE MUANG, SUKHOTHAI.

DRAINAGE AREA — 17,731 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR THE FENCE OF THE GOVERNER'S HOUSE.

ELEVATION — +49.142 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1950 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1954-1956, 1967-1970

RATED BY FLOAT — -

RATED BY CURRENT METER — 1954-1956, 1967-1970

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

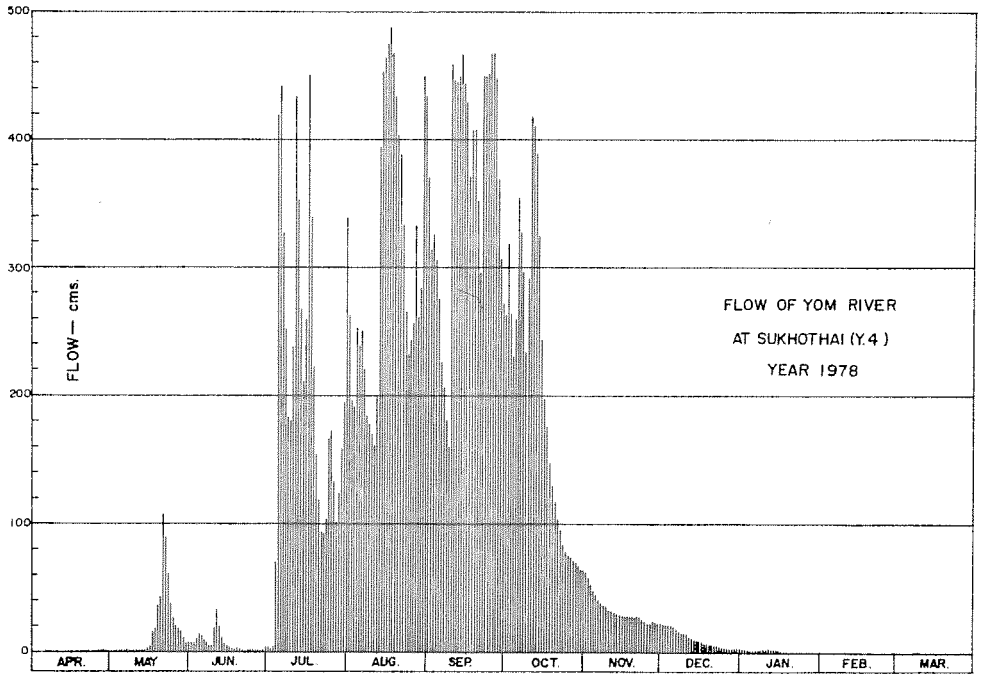
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +49.24 M. (M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1970. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 24,000 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	44.59	44.77	45.53	45.24	49.31	49.45	49.14	47.33	46.25	45.25	44.95	44.78	
2	44.58	44.74	45.52	45.19	49.10	49.29	49.10	47.29	46.23	45.25	44.91	44.82	
3	44.58	44.77	45.60	45.19	48.76	49.25	49.26	47.19	46.21	45.26	44.89	44.80	
4	44.56	44.83	45.81	47.40	48.68	49.28	49.09	47.09	46.20	45.24	44.89	44.78	
5	44.53	44.82	45.76	49.44	49.06	49.20	48.96	47.00	46.17	45.20	44.88	44.76	
6	44.54	44.94	45.63	49.47	48.99	49.13	49.12	46.91	46.14	45.18	44.83	44.76	
7	44.56	44.98	45.45	49.30	49.05	48.91	49.34	46.83	46.12	45.16	44.85	44.76	
8	44.60	44.92	45.37	48.95	48.86	48.69	49.29	46.79	46.07	45.16	44.85	44.74	
9	44.58	44.91	45.37	48.63	48.65	48.55	49.14	46.76	45.99	45.16	44.84	44.73	
10	44.58	44.91	45.91	48.62	48.62	48.42	48.97	46.70	45.94	45.15	44.85	44.72	
11	44.57	44.98	46.52	49.13	48.54	49.49	49.15	46.65	45.99	45.16	44.87	44.71	
12	44.57	44.96	46.18	49.46	48.41	49.48	49.44	46.61	45.94	45.13	44.86	44.66	
13	44.60	44.96	45.77	49.33	48.52	49.47	49.43	46.57	45.87	45.13	44.82	44.64	
14	44.64	44.93	45.52	49.05	49.33	49.48	49.40	46.56	45.74	45.11	44.78	44.60	
15	44.70	44.94	45.36	48.85	49.48	49.50	49.25	46.54	45.69	45.11	44.77	44.58	
16	44.72	45.12	45.26	49.14	49.49	49.49	49.03	46.53	45.67	45.09	44.75	44.57	
17	44.74	45.89	45.20	49.48	49.50	49.44	48.80	46.50	45.64	45.07	44.77	44.57	
18	44.74	45.96	45.15	49.33	49.52	49.37	48.56	46.49	45.61	45.05	44.75	44.57	
19	44.77	46.65	45.16	48.91	49.50	49.43	48.36	46.49	45.59	45.05	44.76	44.56	
20	44.75	46.85	45.15	48.44	49.47	49.43	48.18	46.48	45.56	45.04	44.77	44.56	
21	44.74	47.95	45.08	48.01	49.44	49.33	48.04	46.47	45.52	45.04	44.75	44.55	
22	44.72	47.64	45.01	47.79	49.36	49.20	47.90	46.45	45.49	45.02	44.73	44.54	
23	44.70	47.08	45.00	47.68	49.28	49.42	47.76	46.44	45.46	45.02	44.72	44.55	
24	44.70	46.66	45.03	47.87	49.11	49.48	47.63	46.40	45.43	45.01	44.71	44.55	
25	44.69	46.33	45.00	48.50	48.96	49.48	47.55	46.30	45.41	45.00	44.71	44.57	
26	44.66	46.09	45.04	48.55	49.02	49.50	47.51	46.25	45.38	45.00	44.69	44.58	
27	44.70	46.05	45.00	48.05	49.05	49.50	47.48	46.24	45.34	45.00	44.68	44.60	
28	44.79	45.99	44.95	47.85	49.30	49.48	47.46	46.30	45.32	44.98	44.70	44.60	
29	44.84	45.74	45.01	48.04	49.09	49.38	47.43	46.30	45.30	44.97		44.58	
30	44.83	45.49	45.30	48.37	49.11	49.26	47.38	46.29	45.27	44.95		44.57	
31		45.48		48.70	49.48		47.33		45.25	44.94		44.55	
MEAN	44.66	45.62	45.39	48.32	49.10	49.29	48.53	46.62	45.74	45.09	44.80	44.64	
MAX	44.84	47.95	46.52	49.48	49.52	49.50	49.44	47.33	46.25	45.26	44.95	44.82	49.52
MIN	44.53	44.74	44.95	45.19	48.41	48.42	47.33	46.24	45.25	44.94	44.68	44.54	44.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 49.52 M (MSL), AT 6.00 HOURS, ON AUG 18, 1978
ZERO GAGE AT BOTTOM ELEVATION 44.00 M (MSL), RIVER BED 43.43 M (MSL)
LEFT BANK ELEVATION 49.23 M (MSL)
RIGHT BANK ELEVATION 49.32 M (MSL), DRAINAGE AREA 17731 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	0.0	8.1	3.9	338.0	424.0	274.4	65.2	23.7	4.0	1.0	0.0	
2	0.0	0.0	7.9	3.4	262.0	329.0	262.0	62.9	23.2	4.0	0.6	0.1	
3	0.0	0.0	9.5	3.4	197.8	313.0	317.0	57.5	22.7	4.1	0.5	0.0	
4	0.0	0.1	13.7	69.2	187.6	325.0	259.6	52.5	22.5	3.9	0.5	0.0	
5	0.0	0.1	12.7	415.8	252.4	293.0	230.0	48.0	21.7	3.5	0.4	0.0	
6	0.0	0.9	10.1	440.4	236.0	271.3	268.2	44.0	21.0	3.3	0.1	0.0	
7	0.0	1.3	6.7	333.0	250.0	220.0	353.0	40.7	20.5	3.1	0.3	0.0	
8	0.0	0.7	5.5	228.0	212.0	188.8	329.0	39.1	19.2	3.1	0.3	0.0	
9	0.0	0.6	5.5	181.6	184.0	172.0	274.4	38.1	17.3	3.1	0.2	0.0	
10	0.0	0.6	15.7	180.4	180.4	157.2	232.0	36.0	16.3	3.0	0.3	0.0	
11	0.0	1.3	30.6	271.3	170.8	456.8	277.5	34.5	17.3	3.1	0.4	0.0	
12	0.0	1.1	22.0	432.2	156.1	448.6	415.8	33.3	16.3	2.8	0.3	0.0	
13	0.0	1.1	12.9	348.0	168.4	440.4	407.6	32.1	14.9	2.8	0.1	0.0	
14	0.0	0.8	7.9	250.0	348.0	448.6	383.0	31.8	12.3	2.6	0.0	0.0	
15	0.0	0.9	5.4	210.5	448.6	465.0	313.0	31.2	11.3	2.6	0.0	0.0	
16	0.0	2.7	4.1	274.4	456.8	456.8	245.2	30.9	10.9	2.4	0.0	0.0	
17	0.0	15.3	3.5	448.6	465.0	415.8	203.0	30.0	10.3	2.2	0.0	0.0	
18	0.0	16.7	3.0	348.0	485.0	368.0	173.2	29.7	9.7	2.0	0.0	0.0	
19	0.0	34.5	3.1	220.0	465.0	407.6	150.6	29.7	9.3	2.0	0.0	0.0	
20	0.0	41.5	3.0	159.4	440.4	407.6	131.0	29.5	8.7	1.9	0.0	0.0	
21	0.0	108.5	2.3	114.0	415.8	348.0	117.0	29.2	7.9	1.9	0.0	0.0	
22	0.0	84.5	1.6	95.2	363.0	293.0	104.0	28.7	7.3	1.7	0.0	0.0	
23	0.0	52.0	1.5	87.1	325.0	399.4	93.0	28.5	6.9	1.7	0.0	0.0	
24	0.0	34.8	1.8	101.6	265.1	448.6	83.8	27.5	6.4	1.6	0.0	0.0	
25	0.0	25.7	1.5	166.0	230.0	448.6	78.4	25.0	6.1	1.5	0.0	0.0	
26	0.0	19.7	1.9	172.0	242.8	465.0	75.7	23.7	5.7	1.5	0.0	0.0	
27	0.0	18.7	1.5	118.0	250.0	465.0	73.8	23.5	5.1	1.5	0.0	0.0	
28	0.0	17.3	1.0	100.0	333.0	448.6	72.7	25.0	4.8	1.3	0.0	0.0	
29	0.2	12.3	1.6	117.0	259.6	373.0	71.0	25.0	4.5	1.2		0.0	
30	0.1	7.3	4.5	151.7	265.1	317.0	68.1	24.7	4.2	1.0		0.0	
31		7.2		190.0	448.6		65.2		4.0	0.9		0.0	
TOTAL	0.3	508.2	210.1	6234.1	9302.3	11014.7	6402.2	1057.5	392.0	75.3	5.0	0.1	35201.7 CMSDAY
MEAN	0.0	16.4	7.0	201.1	300.1	367.2	206.5	35.2	12.6	2.4	0.2	0.0	96.4 CMS
MAX	0.2	108.5	30.6	448.6	485.0	465.0	415.8	65.2	23.7	4.1	1.0	0.1	485.0 CMS
MIN	0.0	0.0	1.0	3.4	156.1	157.2	65.2	23.5	4.0	0.9	0.0	0.0	0.0 CMS
RUNOFF	0.03	43.91	18.15	538.63	803.72	951.67	553.15	91.37	33.87	6.51	0.43	0.01	3041.43 MCM

MOMENTARY PEAK 485.00 CMS, AT 49.52 M (MSL), AT 6.00 HOURS, ON AUG 18, 1978

RUNOFF YIELD 5.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 27.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — FAIRLY 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 1978. FLOW DIVERTED FOR IRRIGATION OF ABOUT 24,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

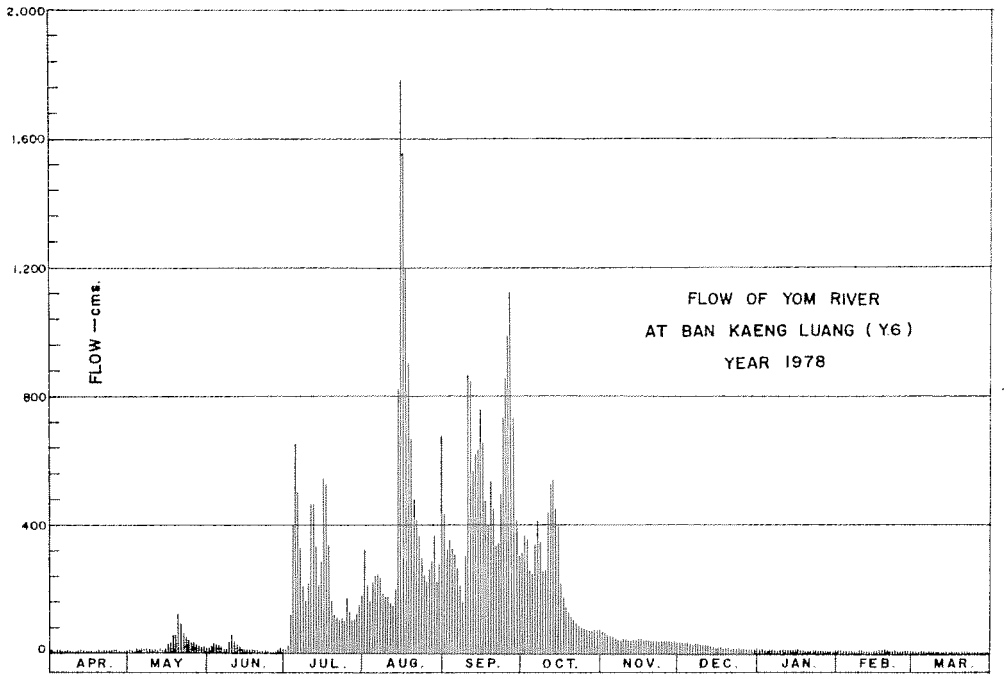
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	59.58	59.67	60.16	59.92	62.64	63.08	62.45	60.85	60.36	59.97	59.79	59.65	
2	59.60	59.70	60.25	59.97	62.11	62.68	62.72	60.78	60.35	59.95	59.78	59.65	
3	59.60	59.69	60.36	60.87	61.77	62.84	62.70	60.72	60.34	59.93	59.77	59.65	
4	59.60	59.70	60.28	63.01	62.21	62.68	62.36	60.68	60.32	59.90	59.75	59.65	
5	59.60	59.74	60.17	64.02	62.24	62.64	62.34	60.64	60.31	59.90	59.75	59.65	
6	59.60	59.75	60.10	63.33	62.28	62.32	62.91	60.61	60.31	59.90	59.75	59.65	
7	59.60	59.74	60.05	62.50	62.21	62.00	63.07	60.59	60.28	59.90	59.74	59.64	
8	59.59	59.75	60.09	62.02	61.92	61.75	62.80	60.58	60.26	59.90	59.74	59.64	
9	59.59	59.74	60.50	61.78	61.84	62.54	62.36	60.54	60.23	59.90	59.74	59.63	
10	59.58	59.75	60.72	62.21	61.83	64.72	62.41	60.51	60.19	59.90	59.73	59.63	
11	59.57	59.75	60.41	63.28	61.70	64.67	63.23	60.49	60.18	59.88	59.73	59.62	
12	59.56	59.74	60.24	63.32	61.66	63.71	63.59	60.48	60.16	59.88	59.72	59.61	
13	59.64	59.72	60.13	62.58	62.10	63.94	63.59	60.48	60.14	59.88	59.72	59.61	
14	59.63	59.74	60.06	62.10	65.77	63.96	63.20	60.46	60.13	59.87	59.72	59.61	
15	59.63	60.05	59.99	62.31	67.12	64.36	62.59	60.46	60.10	59.86	59.71	59.60	
16	59.64	60.41	59.92	63.62	66.30	63.82	62.16	60.47	60.08	59.86	59.71	59.60	
17	59.68	60.33	59.91	63.73	65.51	63.25	61.81	60.46	60.06	59.86	59.71	59.60	
18	59.66	60.81	59.95	62.46	64.54	63.03	61.59	60.45	60.04	59.85	59.70	59.59	
19	59.65	60.65	59.92	61.86	63.97	63.59	61.43	60.45	60.03	59.85	59.70	59.58	
20	59.64	61.42	59.85	61.46	63.33	63.16	61.32	60.45	60.03	59.84	59.69	59.58	
21	59.62	61.19	59.83	61.27	63.10	62.75	61.22	60.44	60.02	59.83	59.69	59.58	
22	59.60	60.78	59.81	61.19	62.81	62.81	61.13	60.43	60.01	59.83	59.68	59.58	
23	59.59	60.60	59.81	61.29	62.56	64.09	61.05	60.41	60.00	59.83	59.67	59.58	
24	59.60	60.45	59.85	61.44	62.26	64.60	61.00	60.37	59.99	59.83	59.67	59.58	
25	59.64	60.34	59.86	62.01	62.19	65.17	60.97	60.35	59.98	59.82	59.66	59.57	
26	59.68	60.30	59.81	61.49	62.41	65.52	60.95	60.35	59.98	59.82	59.65	59.57	
27	59.71	60.24	59.78	61.27	62.55	64.24	60.94	60.37	59.98	59.81	59.65	59.57	
28	59.70	60.09	59.95	61.39	62.88	63.45	60.91	60.39	59.98	59.81	59.65	59.57	
29	59.67	60.05	60.06	61.60	62.14	62.92	60.90	60.38	59.98	59.81		59.57	
30	59.66	60.13	59.98	61.74	63.57	62.63	60.87	60.37	59.98	59.80		59.57	
31		60.15		61.96	64.10		60.88		59.98	59.79		59.57	
MEAN	59.62	60.13	60.06	62.03	63.02	63.43	61.98	60.50	60.12	59.86	59.71	59.60	
MAX	59.71	61.42	60.72	64.02	67.12	65.52	63.59	60.85	60.36	59.97	59.79	59.65	67.12
MIN	59.56	59.67	59.78	59.92	61.66	61.75	60.87	60.35	59.98	59.79	59.65	59.57	59.56

ANNUAL MAX MOMENTARY GAGE HEIGHT — 67.22 M (MSL), AT 10.00 HOURS, ON AUG 15, 1978

ZERO GAGE AT BOTTOM ELEVATION — 59.00 M (MSL), RIVER BED — 58.32 M (MSL)

LEFT BANK ELEVATION — 68.90 M (MSL)

RIGHT BANK ELEVATION — 69.00 M (MSL), DRAINAGE AREA — 12658 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.8	3.7	22.0	10.0	312.0	413.2	274.0	67.0	33.6	12.5	5.8	3.5	
2	3.0	4.0	27.0	12.5	212.6	320.0	328.4	61.4	33.0	11.5	5.6	3.5	
3	3.0	3.9	33.6	68.6	163.1	355.6	324.0	56.6	32.4	10.5	5.4	3.5	
4	3.0	4.0	28.8	396.4	228.8	320.0	256.4	53.6	31.2	9.0	5.0	3.5	
5	3.0	4.8	22.5	655.6	234.2	312.0	252.6	50.8	30.6	9.0	5.0	3.5	
6	3.0	5.0	19.0	473.2	241.4	248.8	372.4	48.7	30.6	9.0	5.0	3.5	
7	3.0	4.8	16.5	284.0	228.8	196.0	410.8	47.4	28.8	9.0	4.8	3.4	
8	2.9	5.0	18.5	199.0	184.0	160.5	346.0	46.8	27.6	9.0	4.8	3.4	
9	2.9	4.8	42.0	164.4	172.6	292.0	256.4	44.4	25.8	9.0	4.8	3.3	
10	2.8	5.0	56.6	228.8	171.2	862.0	266.0	42.6	23.5	9.0	4.6	3.3	
11	2.7	5.0	36.6	461.2	154.0	847.0	449.2	41.4	23.0	8.4	4.6	3.2	
12	2.6	4.8	26.4	470.8	149.2	570.6	539.4	40.8	22.0	8.4	4.4	3.1	
13	3.4	4.4	20.5	300.0	211.0	633.2	539.4	40.8	21.0	8.4	4.4	3.1	
14	3.3	4.8	17.0	211.0	1214.2	638.8	442.0	39.6	20.5	8.1	4.4	3.1	
15	3.3	16.5	13.5	246.9	1778.0	754.0	302.0	39.6	19.0	7.8	4.2	3.0	
16	3.4	36.6	10.0	547.2	1415.0	599.6	220.6	40.2	18.0	7.8	4.2	3.0	
17	3.8	31.8	9.5	575.8	1121.5	454.0	168.4	39.6	17.0	7.8	4.2	3.0	
18	3.6	63.8	11.5	276.0	808.0	401.2	140.8	39.0	16.0	7.5	4.0	2.9	
19	3.5	51.5	10.0	175.4	641.6	539.4	121.6	39.0	15.5	7.5	4.0	2.8	
20	3.4	120.4	7.5	125.2	473.2	432.4	109.2	39.0	15.5	7.2	3.9	2.8	
21	3.2	96.1	6.9	104.0	418.0	335.0	99.0	38.4	15.0	6.9	3.9	2.8	
22	3.0	61.4	6.3	96.1	348.4	348.4	90.7	37.8	14.5	6.9	3.8	2.8	
23	2.9	48.0	6.3	106.0	296.0	675.2	83.5	36.6	14.0	6.9	3.7	2.8	
24	3.0	39.0	7.5	122.8	237.8	826.0	79.0	34.2	13.5	6.9	3.7	2.8	
25	3.4	32.4	7.8	197.5	225.4	1004.4	76.6	33.0	13.0	6.6	3.6	2.7	
26	3.8	30.0	6.3	128.8	266.0	1125.0	75.0	33.0	13.0	6.6	3.5	2.7	
27	4.2	26.4	5.6	104.0	294.0	718.0	74.2	34.2	13.0	6.3	3.5	2.7	
28	4.0	18.5	11.5	116.9	365.2	503.0	71.8	35.4	13.0	6.3	3.5	2.7	
29	3.7	16.5	17.0	142.0	217.4	374.8	71.0	34.8	13.0	6.3		2.7	
30	3.6	20.5	13.0	159.2	534.2	310.0	68.6	34.2	13.0	6.0		2.7	
31		21.5		190.0	678.0		69.4		13.0	5.8		2.7	
TOTAL	97.2	794.9	537.2	7349.3	13994.8	15570.1	6978.4	1269.9	632.6	247.9	122.3	94.5	47689.0 CMSDAY
MEAN	3.2	25.6	17.9	237.1	451.4	519.0	225.1	42.3	20.4	8.0	4.4	3.0	130.7 CMS
MAX	4.2	120.4	56.6	655.6	1778.0	1125.0	539.4	67.0	33.6	12.5	5.8	3.5	1778.0 CMS
MIN	2.6	3.7	5.6	10.0	149.2	160.5	68.6	33.0	13.0	5.8	3.5	2.7	2.6 CMS
RUNOFF	8.40	68.68	46.41	634.98	1209.15	1345.26	602.93	109.72	54.66	21.42	10.57	8.16	4120.33 MCM

MOMENTARY PEAK 1828.00 CMS, AT 67.22 M (MSL), AT 10.00 HOURS, ON AUG 15, 1978
RUNOFF YIELD 10.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 144.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

YOM RIVER BASIN

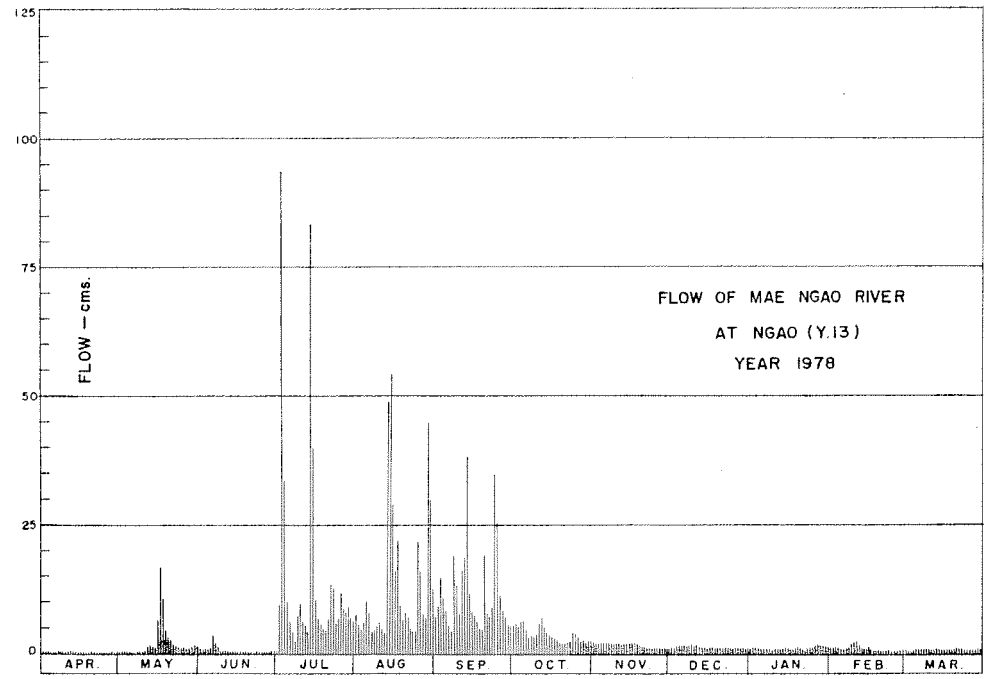
MAE NGAO RIVER AT NGAO, LAMPANG (Y.13)

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	+266.65 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
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	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	266.49	266.48	266.63	266.58	266.99	266.98	266.93	266.77	266.70	266.67	266.66	266.58	
2	266.50	266.49	266.64	267.10	266.92	267.05	266.93	266.76	266.70	266.66	266.66	266.56	
3	266.50	266.47	266.63	267.94	266.90	267.15	266.92	266.76	266.71	266.64	266.64	266.58	
4	266.51	266.47	266.64	267.15	266.96	267.04	266.95	266.76	266.72	266.64	266.64	266.60	
5	266.51	266.47	266.71	267.01	267.05	266.99	266.95	266.77	266.73	266.67	266.63	266.63	
6	266.51	266.49	266.86	266.96	266.93	266.90	266.90	266.77	266.73	266.66	266.66	266.63	
7	266.51	266.52	266.75	266.91	266.89	266.90	266.87	266.76	266.73	266.64	266.66	266.64	
8	266.50	266.58	266.66	266.78	266.90	267.22	266.85	266.75	266.74	266.63	266.69	266.64	
9	266.49	266.61	266.60	266.99	266.93	267.11	266.84	266.75	266.73	266.63	266.75	266.63	
10	266.48	266.59	266.60	267.05	266.95	266.99	266.85	266.76	266.73	266.62	266.76	266.62	
11	266.46	266.66	266.58	266.94	266.88	267.16	266.94	266.77	266.73	266.62	266.75	266.63	
12	266.46	266.77	266.58	266.90	266.88	267.19	266.97	266.75	266.68	266.63	266.64	266.63	
13	266.46	266.72	266.58	266.88	267.56	267.47	266.89	266.75	266.66	266.64	266.63	266.63	
14	266.47	266.70	266.57	267.87	267.64	267.06	266.86	266.76	266.67	266.63	266.65	266.63	
15	266.50	266.73	266.57	267.28	267.29	266.99	266.84	266.77	266.67	266.64	266.66	266.63	
16	266.51	266.93	266.56	267.04	267.16	266.98	266.82	266.77	266.67	266.64	266.65	266.63	
17	266.49	267.18	266.59	266.96	267.27	266.94	266.81	266.76	266.66	266.64	266.61	266.63	
18	266.48	266.93	266.60	266.92	267.03	266.90	266.78	266.75	266.66	266.64	266.58	266.63	
19	266.48	266.87	266.59	266.90	266.96	266.91	266.76	266.73	266.67	266.66	266.59	266.63	
20	266.46	266.82	266.56	266.90	267.00	267.22	266.75	266.69	266.66	266.65	266.58	266.63	
21	266.46	266.77	266.60	266.97	266.97	266.98	266.76	266.67	266.66	266.61	266.58	266.63	
22	266.47	266.73	266.60	267.12	266.90	266.97	266.77	266.67	266.66	266.56	266.57	266.63	
23	266.51	266.70	266.56	267.10	266.90	267.07	266.80	266.68	266.67	266.64	266.56	266.63	
24	266.49	266.69	266.54	266.94	266.90	267.43	266.87	266.68	266.65	266.72	266.57	266.63	
25	266.48	266.69	266.52	266.97	267.27	267.17	266.85	266.68	266.66	266.71	266.55	266.63	
26	266.47	266.70	266.52	267.08	267.12	267.04	266.82	266.67	266.67	266.73	266.55	266.63	
27	266.54	266.70	266.53	267.01	266.97	266.99	266.79	266.68	266.65	266.74	266.56	266.63	
28	266.53	266.71	266.56	267.01	266.97	266.94	266.79	266.69	266.64	266.71	266.57	266.63	
29	266.53	266.72	266.60	267.03	267.54	266.92	266.77	266.69	266.65	266.70		266.63	
30	266.49	266.76	266.63	266.96	267.18	266.92	266.78	266.69	266.63	266.70		266.63	
31		266.71		266.95	267.08		266.78		266.66	266.70		266.63	
MEAN	266.49	266.69	266.60	267.04	267.06	267.05	266.84	266.73	266.68	266.66	266.63	266.62	
MAX	266.54	267.18	266.86	267.94	267.64	267.47	266.97	266.77	266.74	266.74	266.76	266.64	267.94
MIN	266.46	266.47	266.52	266.58	266.88	266.90	266.75	266.67	266.63	266.56	266.55	266.56	266.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 269.45 M (MSL), AT 9.00 HOURS, ON JUL 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 266.65 M (MSL), RIVER BED 266.40 M (MSL)
LEFT BANK ELEVATION 275.05 M (MSL)
RIGHT BANK ELEVATION 275.10 M (MSL), DRAINAGE AREA 382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.65	0.40	7.65	7.30	5.55	2.05	1.00	0.85	0.80	0.40	
2	0.00	0.00	0.70	12.50	5.20	10.25	5.55	1.90	1.00	0.80	0.80	0.30	
3	0.00	0.00	0.65	93.80	4.50	15.25	5.20	1.90	1.15	0.70	0.70	0.40	
4	0.05	0.00	0.70	15.25	6.60	9.80	6.25	1.90	1.30	0.70	0.70	0.50	
5	0.05	0.00	1.15	8.45	10.25	7.65	6.25	2.05	1.45	0.85	0.65	0.65	
6	0.05	0.00	3.70	6.60	5.55	4.50	4.50	2.05	1.45	0.80	0.80	0.65	
7	0.05	0.10	1.75	4.85	4.30	4.50	3.90	1.90	1.45	0.70	0.80	0.70	
8	0.00	0.40	0.80	2.20	4.50	19.20	3.50	1.75	1.60	0.65	0.95	0.70	
9	0.00	0.55	0.50	7.65	5.55	13.05	3.30	1.75	1.45	0.65	1.75	0.65	
10	0.00	0.45	0.50	10.25	6.25	7.65	3.50	1.90	1.45	0.60	1.90	0.60	
11	0.00	0.80	0.40	5.90	4.10	15.80	5.90	2.05	1.45	0.60	1.75	0.65	
12	0.00	2.05	0.40	4.50	4.10	17.45	6.95	1.75	0.90	0.65	0.70	0.65	
13	0.00	1.30	0.40	4.10	46.40	38.29	4.30	1.75	0.80	0.70	0.65	0.65	
14	0.00	1.00	0.35	83.10	54.40	10.70	3.70	1.90	0.85	0.65	0.75	0.65	
15	0.00	1.45	0.35	22.80	23.40	7.65	3.30	2.05	0.85	0.70	0.80	0.65	
16	0.05	5.55	0.30	9.80	15.80	7.30	2.90	2.05	0.85	0.70	0.75	0.65	
17	0.00	16.90	0.45	6.60	22.20	5.90	2.70	1.90	0.80	0.70	0.55	0.65	
18	0.00	5.55	0.50	5.20	9.35	4.50	2.20	1.75	0.80	0.70	0.40	0.65	
19	0.00	3.90	0.45	4.50	6.60	4.85	1.90	1.45	0.85	0.80	0.45	0.65	
20	0.00	2.90	0.30	4.50	8.00	19.20	1.75	0.95	0.80	0.75	0.40	0.65	
21	0.00	2.05	0.50	6.95	6.95	7.30	1.90	0.85	0.80	0.55	0.40	0.65	
22	0.00	1.45	0.50	13.60	4.50	6.95	2.05	0.85	0.80	0.30	0.35	0.65	
23	0.05	1.00	0.30	12.50	4.50	11.15	2.50	0.90	0.85	0.70	0.30	0.65	
24	0.00	0.95	0.20	5.90	4.50	34.70	3.90	0.90	0.75	1.30	0.35	0.65	
25	0.00	0.95	0.10	6.95	22.20	16.35	3.50	0.90	0.80	1.15	0.25	0.65	
26	0.00	1.00	0.10	11.60	13.60	9.80	2.90	0.85	0.85	1.45	0.25	0.65	
27	0.20	1.00	0.15	8.45	6.95	7.65	2.35	0.90	0.75	1.60	0.30	0.65	
28	0.15	1.15	0.30	8.45	6.95	5.90	2.35	0.95	0.70	1.15	0.35	0.65	
29	0.15	1.30	0.50	9.35	44.60	5.20	2.05	0.95	0.75	1.00		0.65	
30	0.00	1.90	0.65	6.60	16.90	5.20	2.20	0.95	0.65	1.00		0.65	
31		1.15		6.25	11.60		2.20		0.80	1.00		0.65	
TOTAL	0.80	56.80	18.30	409.55	397.95	340.99	111.00	45.75	30.75	25.45	19.60	19.20	1476.14 CMSDAY
MEAN	0.03	1.83	0.61	13.21	12.84	11.37	3.58	1.52	0.99	0.82	0.70	0.62	4.04 CMS
MAX	0.20	16.90	3.70	93.80	54.40	38.29	6.95	2.05	1.60	1.60	1.90	0.70	93.80 CMS
MIN	0.00	0.00	0.10	0.40	4.10	4.50	1.75	0.85	0.65	0.30	0.25	0.30	0.00 CMS
RUNOFF	0.069	4.908	1.581	35.385	34.383	29.461	9.590	3.953	2.657	2.199	1.693	1.659	127.538 MCM

MOMENTARY PEAK 509.99 CMS, AT 269.45 M (MSL), AT 9.00 HOURS, ON JUL 14, 1978

RUNOFF YIELD 10.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1335.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S. NO.I

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 57 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

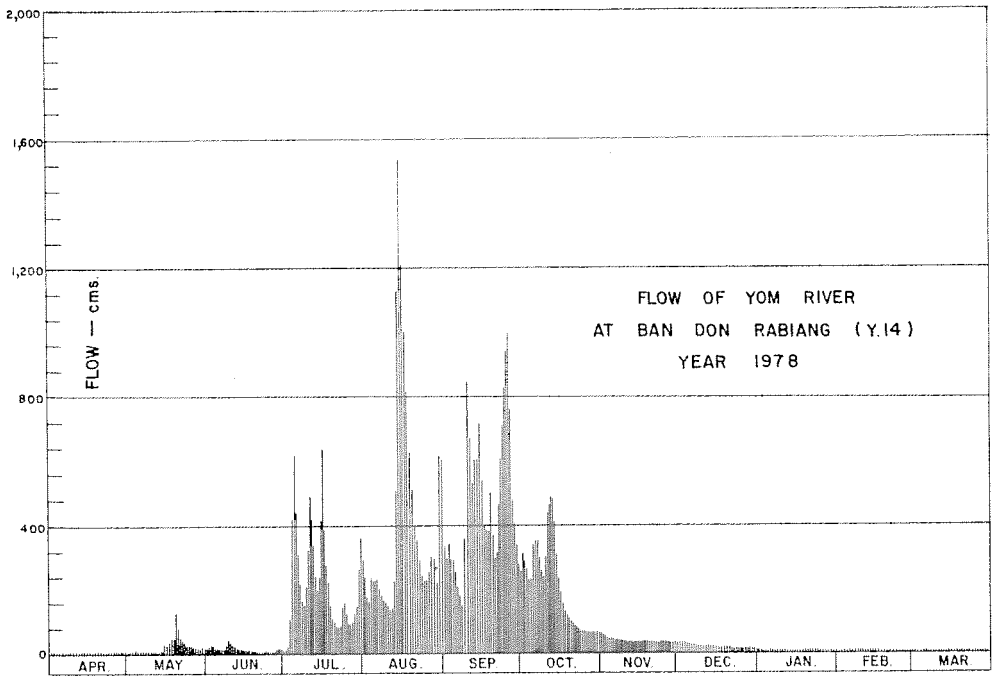
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	65.64	65.78	66.18	65.97	68.68	69.21	68.56	66.83	66.38	65.90	65.85	65.76	
2	65.64	65.79	66.30	66.14	68.04	68.79	68.91	66.77	66.38	65.89	65.85	65.76	
3	65.63	65.77	66.30	67.34	68.80	69.08	68.65	66.72	66.36	65.88	65.84	65.76	
4	65.63	65.84	66.22	69.86	68.41	68.82	68.35	66.68	66.36	65.87	65.84	65.76	
5	65.63	65.83	66.15	70.69	68.33	68.78	68.40	66.63	66.34	65.87	65.84	65.76	
6	65.63	65.83	66.09	69.52	68.44	68.36	69.08	66.60	66.32	65.86	65.83	65.75	
7	65.63	65.84	66.08	68.48	68.21	67.99	69.19	66.58	66.30	65.86	65.83	65.75	
8	65.63	65.83	66.11	67.97	67.91	67.74	68.85	66.57	66.28	65.85	65.83	65.74	
9	65.63	65.84	66.60	67.75	67.87	69.19	68.39	66.54	66.25	65.85	65.83	65.74	
10	65.62	65.85	66.54	68.63	67.81	71.77	68.46	66.52	66.24	65.85	65.83	65.74	
11	65.62	65.83	66.31	70.01	67.65	71.23	69.75	66.51	66.23	65.85	65.82	65.73	
12	65.62	65.81	66.18	69.58	67.71	70.22	69.98	66.50	66.21	65.84	65.82	65.73	
13	65.68	65.82	66.10	68.59	68.29	70.61	69.94	66.50	66.20	65.84	65.82	65.72	
14	65.69	65.85	66.06	68.11	73.26	70.63	69.32	66.48	66.18	65.83	65.81	65.72	
15	65.70	66.37	66.01	68.45	74.35	71.14	68.58	66.48	66.18	65.82	65.81	65.72	
16	65.78	66.37	65.97	70.78	73.23	70.17	68.16	66.48	66.15	65.81	65.81	65.71	
17	65.77	66.38	65.95	68.94	72.37	69.50	67.81	66.48	66.14	65.81	65.80	65.71	
18	65.73	66.69	65.99	68.41	71.24	69.31	67.61	66.48	66.14	65.80	65.80	65.71	
19	65.71	66.67	65.94	67.77	70.50	70.04	67.44	66.47	66.13	65.80	65.80	65.71	
20	65.70	67.52	65.90	67.36	69.68	69.32	67.32	66.47	66.11	65.80	65.79	65.70	
21	65.67	66.98	65.88	67.19	69.34	68.85	67.22	66.46	66.10	65.80	65.79	65.70	
22	65.66	66.62	65.88	67.12	69.00	69.04	67.13	66.44	66.07	65.80	65.78	65.70	
23	65.65	66.47	65.89	67.12	68.66	70.70	67.05	66.42	66.06	65.79	65.78	65.70	
24	65.70	66.35	65.94	67.74	68.37	71.36	67.00	66.44	66.06	65.79	65.78	65.70	
25	65.75	66.27	65.90	67.82	68.31	72.18	66.97	66.47	66.04	65.79	65.77	65.70	
26	65.79	66.27	65.87	67.24	68.52	72.42	66.95	66.42	66.04	65.78	65.77	65.70	
27	65.80	66.18	65.85	67.20	68.86	70.96	66.93	66.42	66.02	65.78	65.77	65.70	
28	65.75	66.09	66.12	67.38	68.73	69.74	66.91	66.40	66.00	65.78	65.76	65.70	
29	65.72	66.11	66.06	67.64	68.27	69.10	66.89	66.40	66.00	65.77		65.70	
30	65.74	66.16	66.00	67.81	70.70	68.77	66.87	66.39	66.00	65.77		65.69	
31		66.15		69.17	70.61		66.86		66.00	65.76		65.69	
MEAN	65.68	66.17	66.08	68.19	69.36	69.83	68.05	66.52	66.17	65.82	65.81	65.72	
MAX	65.80	67.52	66.60	70.78	74.35	72.42	69.98	66.83	66.38	65.90	65.85	65.76	74.35
MIN	65.62	65.77	65.85	65.97	67.65	67.74	66.86	66.39	66.00	65.76	65.76	65.69	65.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 74.48 M (MSL), AT 9.00 HOURS, ON AUG 15, 1978

ZERO GAGE AT BOTTOM ELEVATION 65.10 M (MSL), RIVER BED 63.80 M (MSL)

LEFT BANK ELEVATION 78.17 M (MSL)

RIGHT BANK ELEVATION 77.00 M (MSL), DRAINAGE AREA 12131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.4	4.4	20.0	10.8	275.2	359.6	258.4	60.1	30.8	8.0	6.5	3.8	
2	1.4	4.7	26.0	18.0	185.6	292.4	311.6	55.9	30.8	7.7	6.5	3.8	
3	1.3	4.1	26.0	106.0	294.0	338.8	271.0	52.4	29.6	7.4	6.2	3.8	
4	1.3	6.2	22.0	468.8	237.4	297.2	229.0	49.6	29.6	7.1	6.2	3.8	
5	1.3	5.9	18.5	618.2	226.2	290.8	236.0	46.1	28.4	7.1	6.2	3.8	
6	1.3	5.9	15.6	409.2	241.6	230.4	338.8	44.0	27.2	6.8	5.9	3.5	
7	1.3	6.2	15.2	247.2	209.4	178.8	356.4	42.8	26.0	6.8	5.9	3.5	
8	1.3	5.9	16.5	176.4	169.2	148.8	302.0	42.2	25.0	6.5	5.9	3.2	
9	1.3	6.2	44.0	150.0	164.4	356.4	234.6	40.4	23.5	6.5	5.9	3.2	
10	1.2	6.5	40.4	268.2	157.2	843.4	244.4	39.2	23.0	6.5	5.9	3.2	
11	1.2	5.9	26.6	495.8	138.0	726.0	449.0	38.6	22.5	6.5	5.6	2.9	
12	1.2	5.3	20.0	418.8	145.2	533.6	490.4	38.0	21.5	6.2	5.6	2.9	
13	1.8	5.6	16.0	262.6	220.6	603.8	483.2	38.0	21.0	6.2	5.6	2.6	
14	1.9	6.5	14.4	195.4	1210.8	607.4	377.2	36.8	20.0	5.9	5.3	2.6	
15	2.0	30.2	12.4	243.0	1545.0	708.0	261.2	36.8	20.0	5.6	5.3	2.6	
16	4.4	30.2	10.8	636.0	1202.4	524.6	202.4	36.8	18.5	5.3	5.3	2.3	
17	4.1	30.8	10.0	316.4	982.8	406.0	157.2	36.8	18.0	5.3	5.0	2.3	
18	2.9	50.3	11.6	237.4	728.0	375.6	133.2	36.8	18.0	5.0	5.0	2.3	
19	2.3	48.9	9.6	152.4	584.0	501.2	116.0	36.2	17.5	5.0	5.0	2.3	
20	2.0	124.0	8.0	108.0	436.4	377.2	104.0	36.2	16.5	5.0	4.7	2.0	
21	1.7	71.4	7.4	91.0	380.4	302.0	94.0	35.6	16.0	5.0	4.7	2.0	
22	1.6	45.4	7.4	84.0	326.0	332.4	85.0	34.4	14.8	5.0	4.4	2.0	
23	1.5	36.2	7.7	84.0	272.4	620.0	77.5	33.2	14.4	4.7	4.4	2.0	
24	2.0	29.0	9.6	148.8	231.8	753.2	73.0	34.4	14.4	4.7	4.4	2.0	
25	3.5	24.5	8.0	158.4	223.4	937.2	70.6	36.2	13.6	4.7	4.1	2.0	
26	4.7	24.5	7.1	96.0	252.8	994.8	69.0	33.2	13.6	4.4	4.1	2.0	
27	5.0	20.0	6.5	92.0	303.6	672.0	67.4	33.2	12.8	4.4	4.1	2.0	
28	3.5	15.6	17.0	110.0	282.8	447.2	65.8	32.0	12.0	4.4	3.8	2.0	
29	2.6	16.5	14.4	136.8	217.8	342.0	64.3	32.0	12.0	4.1		2.0	
30	3.2	19.0	12.0	157.2	620.0	289.2	62.9	31.4	12.0	4.1		1.9	
31		18.5		353.2	603.8		62.2		12.0	3.8		1.9	
TOTAL	66.2	714.3	480.7	7050.0	13068.2	14390.0	6347.7	1179.3	615.0	175.7	147.5	82.2	44316.7 CMSDAY
MEAN	2.2	23.0	16.0	227.7	421.6	479.7	204.8	39.3	19.8	5.7	5.3	2.7	121.4 CMS
MAX	5.0	124.0	44.0	636.0	1545.0	994.8	490.4	60.1	30.8	8.0	6.5	3.8	1545.0 CMS
MIN	1.2	4.1	6.5	10.8	138.0	148.8	62.2	31.4	12.0	3.8	3.8	1.9	1.2 CMS
RUNOFF	5.72	61.72	41.53	609.90	1129.09	1243.29	548.44	101.89	53.14	15.18	12.74	7.10	3828.96 MCM

MOMENTARY PEAK 1589.20 CMS, AT 74.48 M (MSL) AT 9.00 HOURS, ON AUG 15, 1978

RUNOFF YIELD 10.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 131.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +36.92 M.(M.S.L.), RECORDS 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.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

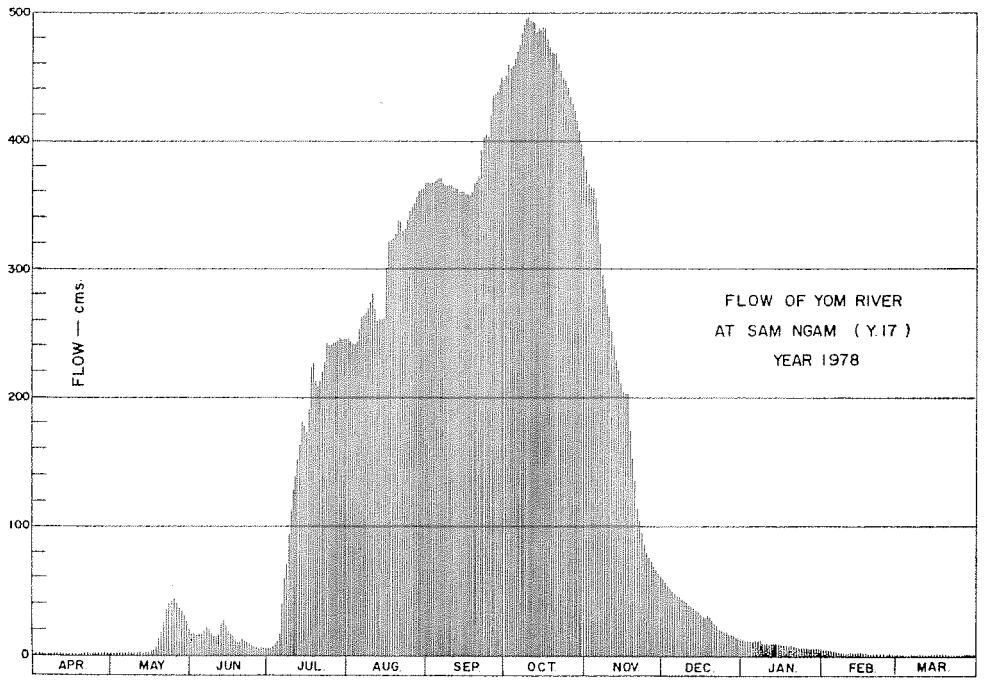
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	31.70	31.67	32.46	32.09	36.01	36.96	37.29	37.01	33.35	32.34	32.08	31.76	
2	31.69	31.67	32.48	32.15	35.97	36.96	37.32	36.96	33.29	32.33	32.06	31.77	
3	31.68	31.67	32.45	32.26	35.97	36.96	37.31	36.95	33.25	32.33	32.04	31.78	
4	31.67	31.67	32.45	32.32	35.98	36.97	37.32	36.94	33.19	32.30	32.01	31.78	
5	31.67	31.67	32.48	32.44	36.14	36.97	37.34	36.90	33.16	32.31	32.00	31.78	
6	31.67	31.73	32.56	33.00	36.20	36.97	37.36	36.72	33.13	32.31	31.97	31.78	
7	31.67	31.70	32.57	33.37	36.22	36.95	37.38	36.56	33.10	32.29	31.96	31.80	
8	31.68	31.70	32.52	33.70	36.25	36.95	37.42	36.45	33.08	32.28	31.95	31.83	
9	31.67	31.69	32.43	34.15	36.32	36.95	37.44	36.32	33.06	32.21	31.94	31.82	
10	31.67	31.69	32.42	34.48	36.37	36.95	37.44	36.19	33.04	32.22	31.91	31.83	
11	31.67	31.78	32.39	34.70	36.21	36.94	37.43	36.07	32.98	32.24	31.91	31.84	
12	31.67	31.86	32.55	34.92	36.16	36.94	37.43	35.93	32.96	32.23	31.96	31.81	
13	31.68	31.89	32.73	35.06	36.17	36.93	37.40	35.80	32.93	32.23	31.94	31.83	
14	31.68	31.93	32.73	35.23	36.18	36.92	37.41	35.67	32.88	32.22	32.01	31.80	
15	31.69	31.97	32.53	35.12	36.49	36.92	37.41	35.55	32.84	32.21	31.98	31.78	
16	31.68	32.03	32.49	35.34	36.68	36.91	37.42	35.52	32.79	32.19	31.94	31.78	
17	31.68	32.04	32.44	35.75	36.71	36.91	37.39	35.51	32.76	32.18	31.90	31.77	
18	31.68	32.07	32.39	35.79	36.72	36.93	37.38	35.15	32.81	32.17	31.88	31.77	
19	31.67	32.35	32.31	35.61	36.75	36.96	37.35	34.91	32.79	32.16	31.85	31.76	
20	31.67	32.48	32.32	35.58	36.81	36.98	37.35	34.59	32.74	32.14	31.84	31.75	
21	31.67	32.69	32.39	35.66	36.80	37.04	37.34	34.31	32.66	32.13	31.81	31.75	
22	31.68	32.89	32.28	35.76	36.75	37.10	37.31	34.11	32.59	32.12	31.80	31.76	
23	31.67	33.01	32.27	35.97	36.78	37.12	37.29	33.93	32.55	32.11	31.79	31.76	
24	31.68	33.06	32.23	35.94	36.83	37.11	37.28	33.81	32.54	32.11	31.78	31.76	
25	31.69	33.05	32.18	35.96	36.86	37.18	37.26	33.72	32.52	32.10	31.78	31.75	
26	31.68	33.04	32.15	35.97	36.87	37.23	37.23	33.64	32.50	32.10	31.77	31.75	
27	31.68	32.94	32.14	35.98	36.90	37.24	37.21	33.57	32.47	32.09	31.77	31.75	
28	31.67	32.88	32.12	36.02	36.93	37.25	37.18	33.50	32.44	32.09	31.76	31.75	
29	31.67	32.79	32.14	36.01	36.94	37.29	37.14	33.44	32.41	32.08		31.75	
30	31.67	32.73	32.11	36.01	36.94	37.28	37.09	33.42	32.38	32.08		31.74	
31		32.52		36.01	36.96		37.05		32.37	32.08		31.74	
MEAN	31.68	32.22	32.39	34.79	36.51	37.03	37.32	35.30	32.82	32.19	31.91	31.78	
MAX	31.70	33.06	32.73	36.02	36.96	37.29	37.44	37.01	33.35	32.34	32.08	31.84	37.44
MIN	31.67	31.67	32.11	32.09	35.97	36.91	37.05	33.42	32.37	32.08	31.76	31.74	31.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 37.44 M (MSL), AT 18.00 HOURS, ON OCT 10, 1978

ZERO GAGE AT BOTTOM ELEVATION 31.49 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 21415 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	0.0	16.3	4.9	246.3	367.4	450.0	378.3	57.6	12.0	4.7	0.0	
2	0.0	0.0	17.1	6.5	242.7	367.4	459.0	367.4	54.5	11.7	4.3	0.0	
3	0.0	0.0	15.9	9.6	242.7	367.4	456.0	365.4	52.5	11.7	3.9	0.0	
4	0.0	0.0	15.9	11.4	243.6	369.5	459.0	363.3	49.4	10.8	3.3	0.0	
5	0.0	0.0	17.1	15.5	258.2	369.5	465.0	355.1	47.9	11.1	3.1	0.0	
6	0.0	0.0	20.3	39.9	263.7	369.5	471.0	323.9	46.4	11.1	2.6	0.0	
7	0.0	0.0	20.7	58.7	265.6	365.4	477.0	302.6	44.9	10.5	2.4	0.1	
8	0.0	0.0	18.7	76.7	268.6	365.4	489.0	290.0	43.9	10.2	2.2	0.5	
9	0.0	0.0	15.1	103.9	275.7	365.4	495.0	275.7	42.9	8.1	2.0	0.4	
10	0.0	0.0	14.7	125.8	281.1	365.4	495.0	262.7	41.9	8.4	1.5	0.5	
11	0.0	0.0	13.5	141.4	264.7	363.3	492.0	251.8	38.9	9.0	1.5	0.6	
12	0.0	0.8	19.9	157.6	260.0	363.3	492.0	239.2	38.0	8.7	2.4	0.2	
13	0.0	1.2	27.3	168.1	260.9	361.2	483.0	227.7	36.5	8.7	2.0	0.5	
14	0.0	1.9	27.3	180.9	261.8	359.2	486.0	218.2	34.1	8.4	3.3	0.1	
15	0.0	2.6	19.1	172.6	294.5	359.2	486.0	206.4	32.3	8.1	2.7	0.0	
16	0.0	3.7	17.5	189.4	317.8	357.1	489.0	203.9	30.0	7.5	2.0	0.0	
17	0.0	3.9	15.5	223.9	322.3	357.1	480.0	203.1	28.7	7.2	1.4	0.0	
18	0.0	4.5	13.5	226.8	323.9	361.2	477.0	174.9	30.9	7.0	1.1	0.0	
19	0.0	12.3	11.1	211.8	328.6	367.4	468.0	156.9	30.0	6.7	0.7	0.0	
20	0.0	17.1	11.4	208.9	338.6	371.5	468.0	133.5	27.8	6.2	0.6	0.0	
21	0.0	25.5	13.5	217.1	336.8	385.3	465.0	114.3	24.3	5.9	0.2	0.0	
22	0.0	34.6	10.2	224.6	328.6	399.6	456.0	101.3	21.5	5.7	0.1	0.0	
23	0.0	40.4	9.9	242.7	333.4	404.8	450.0	90.1	19.9	5.4	0.0	0.0	
24	0.0	42.9	8.7	240.0	342.2	402.2	447.3	83.0	19.5	5.4	0.0	0.0	
25	0.0	42.4	7.2	241.8	347.6	420.4	441.9	77.8	18.7	5.2	0.0	0.0	
26	0.0	41.9	6.5	242.7	349.4	433.8	433.8	73.4	17.9	5.2	0.0	0.0	
27	0.0	37.0	6.2	243.6	355.1	436.5	428.4	69.5	16.7	4.9	0.0	0.0	
28	0.0	34.1	5.7	247.2	361.2	439.2	420.4	65.7	15.5	4.9	0.0	0.0	
29	0.0	30.0	6.2	246.3	363.3	450.0	410.0	62.4	14.3	4.7		0.0	
30	0.0	27.3	5.4	246.3	363.3	447.3	397.0	61.3	13.2	4.7		0.0	
31		18.7		246.3	367.4		387.6		12.9	4.7		0.0	
TOTAL	0.0	422.8	427.4	4972.9	9409.6	11511.9	14274.4	6098.8	1003.5	239.8	48.0	2.9	48411.9 CMSDAY
MEAN	0.0	13.6	14.2	160.4	303.5	383.7	460.5	203.3	32.4	7.7	1.7	0.1	132.6 CMS
MAX	0.0	42.9	27.3	247.2	367.4	450.0	495.0	378.3	57.6	12.0	4.7	0.6	495.0 CMS
MIN	0.0	0.0	5.4	4.9	242.7	357.1	387.6	61.3	12.9	4.7	0.0	0.0	0.0 CMS
RUNOFF	0.00	36.53	36.93	429.66	812.99	994.63	1233.31	526.94	86.70	20.72	4.15	0.25	4182.79 MCM

MOMENTARY PEAK 495.00 CMS, AT 37.44 M (MSL), AT 18.00 HOURS, ON OCT 10, 1978

RUNOFF YIELD 6.19 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — +346.31 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +350.401 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

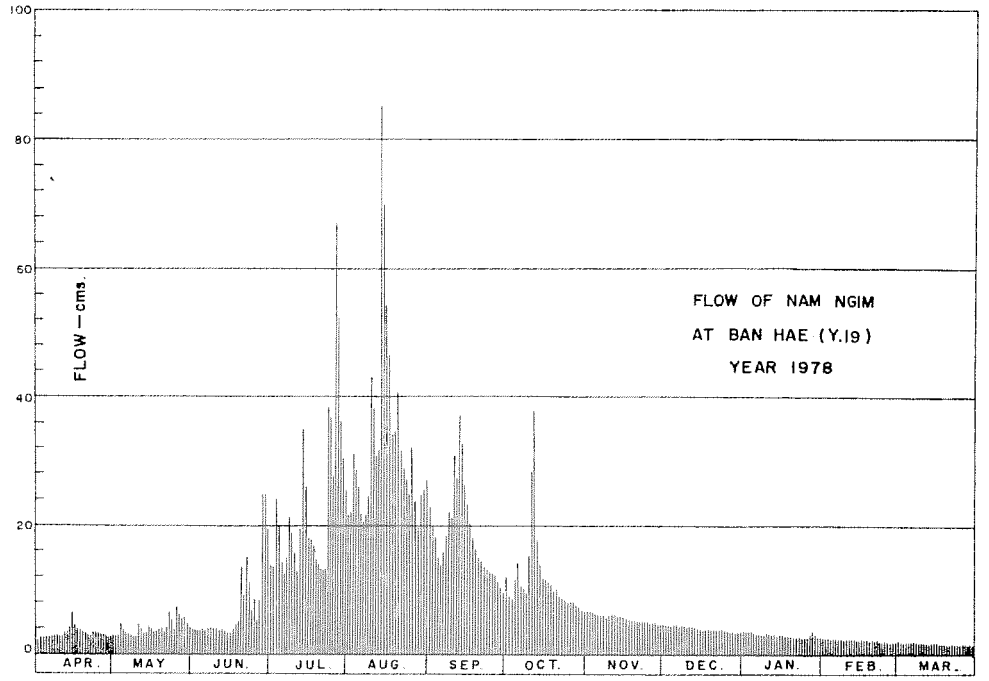
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	347.02	347.04	347.09	347.44	347.62	347.66	347.39	347.22	347.13	347.07	347.01	346.95	
2	347.02	347.04	347.09	347.43	347.64	347.62	347.30	347.22	347.13	347.06	347.01	346.95	
3	347.02	347.04	347.08	347.67	347.79	347.57	347.28	347.22	347.13	347.06	347.01	346.95	
4	347.02	347.14	347.10	347.61	347.74	347.53	347.32	347.21	347.13	347.06	347.01	346.95	
5	347.01	347.05	347.09	347.52	347.69	347.46	347.45	347.21	347.12	347.05	347.01	346.94	
6	347.02	347.05	347.08	347.45	347.62	347.44	347.37	347.20	347.12	347.04	347.01	346.95	
7	347.04	347.04	347.11	347.40	347.60	347.52	347.34	347.20	347.12	347.04	347.00	346.95	
8	347.04	347.04	347.11	347.58	347.66	347.56	347.34	347.19	347.12	347.04	347.00	346.94	
9	347.04	347.02	347.10	347.61	347.71	347.63	347.31	347.19	347.11	347.05	346.99	346.94	
10	347.03	347.03	347.09	347.52	347.95	347.61	347.52	347.22	347.11	347.05	346.99	346.94	
11	347.03	347.14	347.08	347.46	347.86	347.78	347.88	347.20	347.11	347.05	346.99	346.94	
12	347.07	347.07	347.08	347.41	347.78	347.72	347.58	347.20	347.11	347.05	346.99	346.94	
13	347.07	347.05	347.08	347.62	347.80	347.87	347.48	347.18	347.09	347.04	346.99	346.93	
14	347.13	347.07	347.07	347.84	348.35	347.74	347.42	347.18	347.09	347.04	346.99	346.93	
15	347.22	347.11	347.06	347.70	348.08	347.68	347.38	347.19	347.09	347.04	346.98	346.93	
16	347.11	347.07	347.07	347.54	347.99	347.62	347.38	347.17	347.09	347.03	346.98	346.93	
17	347.09	347.08	347.12	347.54	347.90	347.57	347.36	347.16	347.09	347.03	346.98	346.92	
18	347.08	347.08	347.16	347.49	347.83	347.54	347.34	347.16	347.09	347.03	346.98	346.92	
19	347.07	347.09	347.15	347.45	347.84	347.51	347.32	347.16	347.09	347.02	346.98	346.92	
20	347.05	347.10	347.43	347.44	347.92	347.48	347.32	347.16	347.09	347.02	346.98	346.92	
21	347.04	347.08	347.30	347.42	347.82	347.45	347.30	347.15	347.09	347.02	346.98	346.92	
22	347.04	347.16	347.48	347.42	347.75	347.44	347.28	347.15	347.08	347.02	346.97	346.92	
23	347.06	347.22	347.28	347.43	347.74	347.42	347.28	347.15	347.08	347.02	346.95	346.93	
24	347.07	347.14	347.23	347.89	347.66	347.42	347.27	347.15	347.08	347.01	346.95	346.93	
25	347.05	347.09	347.30	347.86	347.80	347.40	347.28	347.14	347.08	347.01	346.95	346.93	
26	347.04	347.24	347.16	347.73	347.67	347.40	347.27	347.14	347.07	347.01	346.95	346.93	
27	347.04	347.16	347.29	348.19	347.62	347.37	347.26	347.14	347.07	347.09	346.95	346.92	
28	347.04	347.18	347.68	347.98	347.58	347.36	347.25	347.14	347.07	347.04	346.95	346.92	
29	347.03	347.17	347.68	347.80	347.68	347.34	347.24	347.13	347.06	347.02		346.91	
30	347.03	347.13	347.54	347.74	347.69	347.32	347.23	347.13	347.05	347.02		346.93	
31		347.11		347.69	347.72		347.22		347.06	347.01		346.92	
MEAN	347.05	347.10	347.21	347.61	347.78	347.53	347.35	347.17	347.09	347.04	346.98	346.93	
MAX	347.22	347.24	347.68	348.19	348.35	347.87	347.88	347.22	347.13	347.09	347.01	346.95	348.35
MIN	347.01	347.02	347.06	347.40	347.58	347.32	347.22	347.13	347.05	347.01	346.95	346.91	346.91

ANNUAL MAX MOMENTARY GAGE HEIGHT 348.88 M (MSL), AT 9.00 HOURS, ON JUL 27, 1978
ZERO GAGE AT BOTTOM ELEVATION 346.31 M (MSL), RIVER BED 346.01 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.62	2.94	3.74	13.92	21.68	23.84	12.06	6.68	4.56	3.42	2.46	1.80	
2	2.62	2.94	3.74	13.54	22.76	21.68	9.00	6.68	4.56	3.26	2.46	1.80	
3	2.62	2.94	3.58	24.38	31.58	19.28	8.42	6.68	4.56	3.26	2.46	1.80	
4	2.62	4.78	3.90	21.14	28.48	17.52	9.68	6.39	4.56	3.26	2.46	1.80	
5	2.46	3.10	3.74	17.08	25.46	14.68	14.30	6.39	4.34	3.10	2.46	1.70	
6	2.62	3.10	3.58	14.30	21.68	13.92	11.38	6.10	4.34	2.94	2.46	1.80	
7	2.94	2.94	4.12	12.40	20.60	17.08	10.36	6.10	4.34	2.94	2.30	1.80	
8	2.94	2.94	4.12	19.72	23.84	18.84	10.36	5.88	4.34	2.94	2.30	1.70	
9	2.94	2.62	3.90	21.14	26.62	22.22	9.34	5.88	4.12	3.10	2.20	1.70	
10	2.78	2.78	3.74	17.08	43.30	21.14	17.08	6.68	4.12	3.10	2.20	1.70	
11	2.78	4.78	3.58	14.68	36.40	30.96	37.80	6.10	4.12	3.10	2.20	1.70	
12	3.42	3.42	3.58	12.78	30.96	27.24	19.72	6.10	4.12	3.10	2.20	1.70	
13	3.42	3.10	3.58	21.68	32.20	37.10	15.44	5.66	3.74	2.94	2.20	1.60	
14	4.56	3.42	3.42	35.00	85.00	28.48	13.16	5.66	3.74	2.94	2.20	1.60	
15	6.68	4.12	3.26	26.00	55.08	24.92	11.72	5.88	3.74	2.94	2.10	1.60	
16	4.12	3.42	3.42	17.96	46.58	21.68	11.72	5.44	3.74	2.78	2.10	1.60	
17	3.74	3.58	4.34	17.96	39.20	19.28	11.04	5.22	3.74	2.78	2.10	1.50	
18	3.58	3.58	5.22	15.82	34.30	17.96	10.36	5.22	3.74	2.78	2.10	1.50	
19	3.42	3.74	5.00	14.30	35.00	16.64	9.68	5.22	3.74	2.62	2.10	1.50	
20	3.10	3.90	13.54	13.92	40.84	15.44	9.68	5.22	3.74	2.62	2.10	1.50	
21	2.94	3.58	9.00	13.16	33.60	14.30	9.00	5.00	3.74	2.62	2.10	1.50	
22	2.94	5.22	15.44	13.16	29.10	13.92	8.42	5.00	3.58	2.62	2.00	1.50	
23	3.26	6.68	8.42	13.54	28.48	13.16	8.42	5.00	3.58	2.62	1.80	1.60	
24	3.42	4.78	6.97	38.50	23.84	13.16	8.13	5.00	3.58	2.46	1.80	1.60	
25	3.10	3.74	9.00	36.40	32.20	12.40	8.42	4.78	3.58	2.46	1.80	1.60	
26	2.94	7.26	5.22	27.86	24.38	12.40	8.13	4.78	3.42	2.46	1.80	1.60	
27	2.94	5.22	8.71	66.90	21.68	11.38	7.84	4.78	3.42	3.74	1.80	1.50	
28	2.94	5.66	24.92	45.76	19.72	11.04	7.55	4.78	3.42	2.94	1.80	1.50	
29	2.78	5.44	24.92	32.20	24.92	10.36	7.26	4.56	3.26	2.62		1.40	
30	2.78	4.56	17.96	28.48	25.46	9.68	6.97	4.56	3.10	2.62		1.60	
31		4.12		25.46	27.24		6.68		3.26	2.46		1.50	
TOTAL	96.02	124.40	217.66	706.22	992.18	551.70	349.12	167.42	119.94	89.54	60.06	50.30	3524.55 CMSDAY
MEAN	3.20	4.01	7.26	22.78	32.01	18.39	11.26	5.58	3.87	2.89	2.14	1.62	9.66 CMS
MAX	6.68	7.26	24.92	66.90	85.00	37.10	37.80	6.68	4.56	3.74	2.46	1.80	85.00 CMS
MIN	2.46	2.62	3.26	12.40	19.72	9.68	6.68	4.56	3.10	2.46	1.80	1.40	1.40 CMS
RUNOFF	8.296	10.748	18.806	61.017	85.724	47.667	30.164	14.465	10.363	7.736	5.189	4.346	304.521 MCM

MOMENTARY PEAK 163.20 CMS, AT 348.88 M (MSL), AT 9.00 HOURS, ON JUL 27, 1978

RUNOFF YIELD 62.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1052.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +193.552 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 — FAIRLY STABLE BY SOME SCOURING, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

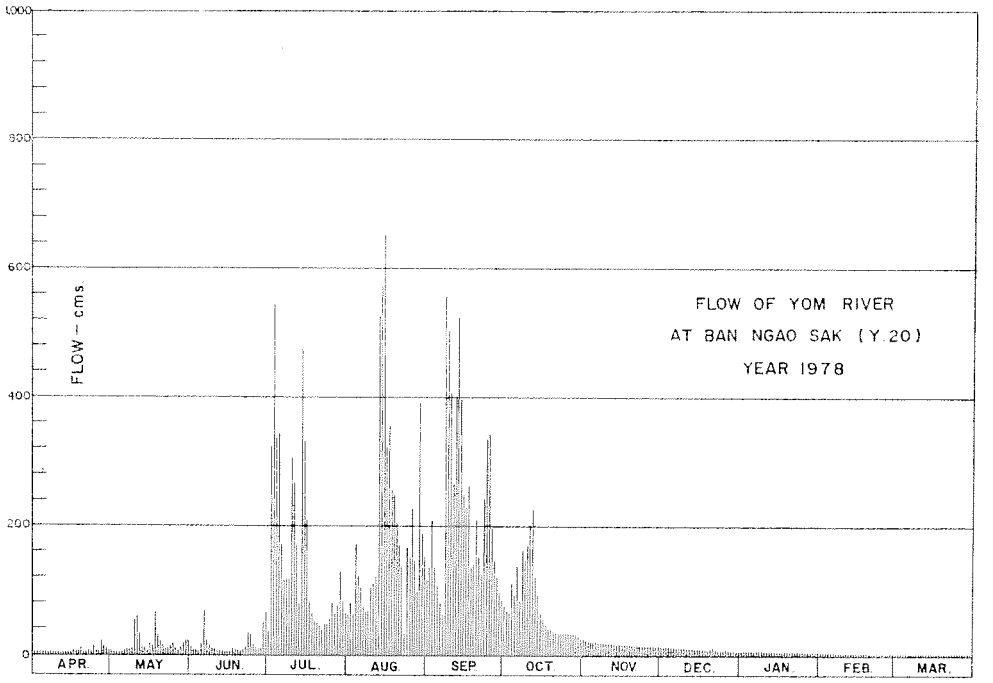
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 119 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	181.70	181.87	182.00	182.42	182.81	183.45	182.99	182.22	182.02	181.86	181.79	181.71	
2	181.70	181.78	181.92	184.62	183.05	183.77	182.89	182.21	182.02	181.86	181.78	181.71	
3	181.70	181.75	181.87	186.52	182.82	184.34	182.86	182.19	182.02	181.85	181.76	181.70	
4	181.69	181.73	181.85	185.30	183.97	183.69	183.39	182.17	182.02	181.85	181.76	181.70	
5	181.69	181.76	182.16	185.36	183.55	183.32	183.17	182.16	182.01	181.85	181.76	181.70	
6	181.69	181.89	182.91	183.99	183.32	183.02	183.66	182.15	182.00	181.84	181.76	181.70	
7	181.69	181.83	182.21	183.42	182.96	182.85	183.08	182.14	181.99	181.84	181.76	181.70	
8	181.69	181.80	182.02	183.45	182.87	186.58	183.91	182.14	181.99	181.84	181.77	181.70	
9	181.69	181.81	181.96	183.46	182.93	186.45	183.76	182.12	181.98	181.84	181.77	181.70	
10	181.68	182.73	181.92	185.09	183.30	185.60	184.04	182.12	181.97	181.84	181.77	181.69	
11	181.68	182.79	181.88	184.82	183.39	184.80	184.30	182.11	181.97	181.85	181.77	181.69	
12	181.68	182.27	181.86	183.93	183.47	185.69	184.50	182.13	181.97	181.85	181.77	181.69	
13	181.68	181.99	181.84	183.03	186.41	186.40	183.54	182.11	181.96	181.84	181.78	181.66	
14	181.68	181.95	181.82	186.16	186.59	185.66	183.05	182.11	181.96	181.83	181.77	181.66	
15	181.72	181.90	181.80	185.52	187.05	184.66	182.83	182.10	181.94	181.83	181.77	181.66	
16	181.84	182.09	181.80	183.81	185.22	184.50	182.69	182.09	181.93	181.82	181.77	181.66	
17	181.85	183.82	181.96	183.06	185.44	184.77	182.65	182.08	181.93	181.81	181.75	181.66	
18	181.82	182.86	181.93	182.82	184.74	183.63	182.53	182.08	181.92	181.81	181.74	181.66	
19	181.97	182.34	181.89	182.64	184.65	183.76	182.48	182.09	181.92	181.81	181.73	181.66	
20	181.76	182.18	181.88	182.64	184.37	184.35	182.43	182.08	181.91	181.80	181.73	181.66	
21	181.75	182.08	181.89	182.55	184.00	183.75	182.40	182.08	181.98	181.80	181.72	181.66	
22	181.87	182.01	182.08	182.49	183.72	183.53	182.40	182.06	181.98	181.80	181.71	181.66	
23	181.78	181.96	182.39	182.62	182.36	184.61	182.38	182.06	181.88	181.80	181.71	181.66	
24	182.02	182.08	182.37	182.60	183.98	185.31	182.39	182.06	181.88	181.80	181.71	181.66	
25	181.82	182.08	182.08	182.73	183.77	185.35	182.39	182.06	181.88	181.80	181.71	181.66	
26	181.83	181.95	181.99	183.04	184.48	184.32	182.38	182.05	181.88	181.80	181.71	181.66	
27	182.18	181.91	181.93	182.81	183.75	183.85	182.37	182.05	181.87	181.79	181.71	181.65	
28	181.99	181.97	181.95	182.96	183.24	183.51	182.36	182.04	181.87	181.79	181.70	181.66	
29	181.93	182.12	182.65	183.56	185.64	183.27	182.33	182.04	181.86	181.79		181.65	
30	181.91	182.22	182.86	183.13	184.22	183.12	182.28	182.04	181.86	181.79		181.64	
31		182.18		182.88	183.63		182.24		181.86	181.79		181.64	
MEAN	181.79	182.12	182.06	183.66	184.05	184.40	182.92	182.10	181.94	181.82	181.75	181.67	
MAX	182.18	183.82	182.91	186.52	187.05	186.58	184.50	182.22	182.02	181.86	181.79	181.71	187.05
MIN	181.68	181.73	181.80	182.42	182.36	182.85	182.24	182.04	181.86	181.79	181.70	181.64	181.64

ANNUAL MAX MOMENTARY GAGE HEIGHT 187.45 M (MSL), AT 18.00 HOURS, ON AUG 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 180.98 M (MSL), RIVER BED 180.35 M (MSL)
LEFT BANK ELEVATION 193.50 M (MSL)
RIGHT BANK ELEVATION 195.00 M (MSL), DRAINAGE AREA 5410 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	6.10	12.00	35.20	61.80	117.50	76.20	23.20	13.00	5.80	3.75	1.75	
2	1.50	3.50	8.00	243.60	81.50	149.00	68.20	22.60	13.00	5.80	3.50	1.75	
3	1.50	2.75	6.10	544.00	62.60	209.80	65.80	21.50	13.00	5.50	3.00	1.50	
4	1.35	2.25	5.50	336.00	169.00	141.00	112.10	20.50	13.00	5.50	3.00	1.50	
5	1.35	3.00	20.00	344.40	127.00	105.80	92.30	20.00	12.50	5.50	3.00	1.50	
6	1.35	6.70	69.80	171.00	105.80	78.80	138.00	19.50	12.00	5.20	3.00	1.50	
7	1.35	4.90	22.60	114.80	73.80	65.00	84.20	19.00	11.50	5.20	3.00	1.50	
8	1.35	4.00	13.00	117.50	66.60	556.00	163.00	19.00	11.50	5.20	3.25	1.50	
9	1.35	4.30	10.00	118.40	71.40	530.50	148.00	18.00	11.00	5.20	3.25	1.50	
10	1.20	56.10	8.00	306.60	104.00	384.00	176.40	18.00	10.50	5.20	3.25	1.35	
11	1.20	60.30	6.40	269.60	112.10	267.00	205.00	17.50	10.50	5.50	3.25	1.35	
12	1.20	26.20	5.80	165.00	119.30	399.30	229.00	18.50	10.50	5.50	3.25	1.35	
13	1.20	11.50	5.20	79.70	522.90	521.00	126.00	17.50	10.00	5.20	3.50	0.90	
14	1.20	9.50	4.60	479.20	558.00	394.20	81.50	17.50	10.00	4.90	3.25	0.90	
15	2.00	7.00	4.00	370.40	653.50	248.80	63.40	17.00	9.00	4.90	3.25	0.90	
16	5.20	16.50	4.00	153.00	324.80	229.00	53.30	16.50	8.50	4.60	3.25	0.90	
17	5.50	154.00	10.00	82.40	356.80	263.10	50.50	16.00	8.50	4.30	2.75	0.90	
18	4.60	65.80	8.50	62.60	259.20	135.00	42.10	16.00	8.00	4.30	2.50	0.90	
19	10.50	30.40	6.70	49.80	247.50	148.00	38.80	16.50	8.00	4.30	2.25	0.90	
20	3.00	21.00	6.40	49.80	213.40	211.00	35.80	16.00	7.50	4.00	2.25	0.90	
21	2.75	16.00	6.70	43.50	172.00	147.00	34.00	16.00	11.00	4.00	2.00	0.90	
22	6.10	12.50	16.00	39.40	144.00	125.00	34.00	15.00	11.00	4.00	1.75	0.90	
23	3.50	10.00	33.40	48.40	31.60	242.30	32.80	15.00	6.40	4.00	1.75	0.90	
24	13.00	16.00	32.20	47.00	170.00	337.40	33.40	15.00	6.40	4.00	1.75	0.90	
25	4.60	16.00	16.00	56.10	149.00	343.00	33.40	15.00	6.40	4.00	1.75	0.90	
26	4.90	9.50	11.50	80.60	226.60	207.40	32.80	14.50	6.40	4.00	1.75	0.90	
27	21.00	7.50	8.50	61.80	147.00	157.00	32.20	14.50	6.10	3.75	1.75	0.75	
28	11.50	10.50	9.50	73.80	98.60	123.00	31.60	14.00	6.10	3.75	1.50	0.90	
29	8.50	18.00	50.50	128.00	390.80	101.30	29.80	14.00	5.80	3.75		0.75	
30	7.50	23.20	65.80	88.70	196.20	87.80	26.80	14.00	5.80	3.75		0.60	
31		21.00		67.40	135.00		24.40		5.80	3.75		0.60	
TOTAL	132.75	656.00	486.70	4827.69	6151.80	7025.00	2394.80	517.30	288.70	144.35	75.50	34.25	22734.82 CMSDAY
MEAN	4.42	21.16	16.22	155.73	198.45	234.17	77.25	17.24	9.31	4.66	2.70	1.10	62.29 CMS
MAX	21.00	154.00	69.80	544.00	653.50	556.00	229.00	23.20	13.00	5.80	3.75	1.75	653.50 CMS
MIN	1.20	2.25	4.00	35.20	31.60	65.00	24.40	14.00	5.80	3.75	1.50	0.60	0.60 CMS
RUNOFF	11.470	56.678	42.051	417.113	531.515	606.960	206.910	44.69	24.944	12.472	6.523	2.959	1964.288 MCM

MOMENTARY PEAK 746.00 CMS, AT 187.45 M (MSL), AT 18.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 11.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 137.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1954-1956

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

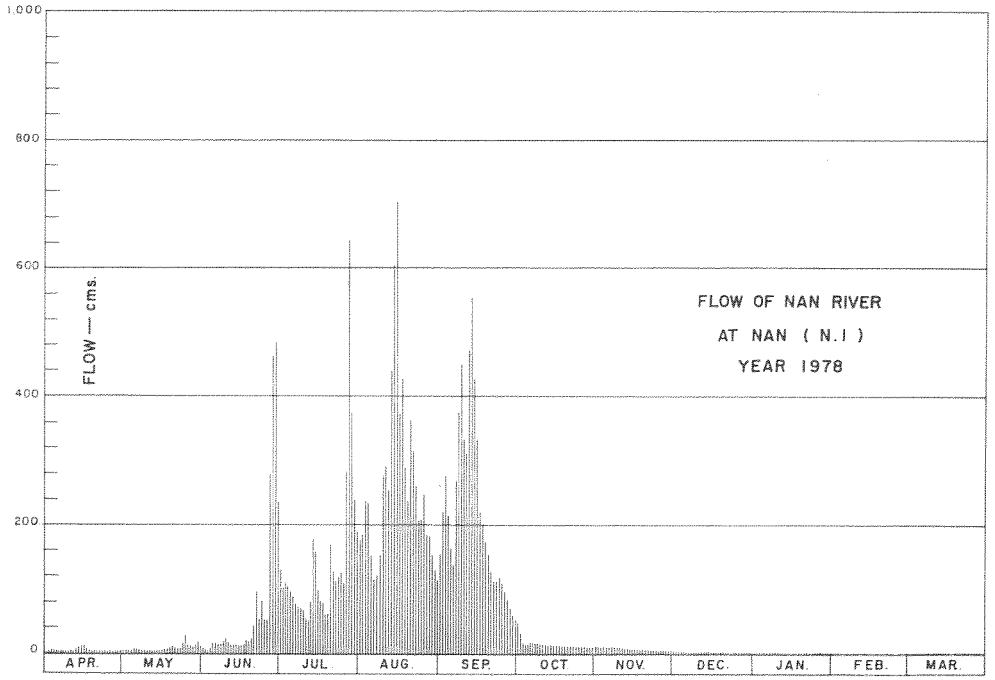
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 614 DISCHARGE MEASUREMENTS MADE DURING 1954-1956.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	192.80	192.86	193.07	194.45	194.71	194.52	193.72	193.29	193.17	192.98	192.84	192.79	
2	192.88	192.86	193.03	194.20	194.75	194.85	193.71	193.27	193.17	192.98	192.84	192.78	
3	192.77	192.86	192.97	194.27	195.07	195.26	193.67	193.24	193.17	192.98	192.84	192.78	
4	192.76	192.87	193.10	194.21	195.06	194.97	193.64	193.22	193.17	192.97	192.84	192.78	
5	192.75	193.02	193.28	194.12	194.68	194.73	194.00	193.29	193.17	192.96	192.84	192.77	
6	192.74	193.04	193.25	194.09	194.45	194.48	194.81	193.29	193.17	192.95	192.84	192.76	
7	192.74	193.06	193.18	193.98	194.26	195.16	194.15	193.26	193.16	192.94	192.84	192.75	
8	192.74	192.98	193.20	193.96	194.32	195.58	194.14	193.27	193.16	192.93	192.84	192.74	
9	192.78	192.94	193.32	193.94	194.60	196.05	194.22	193.25	193.16	192.92	192.84	192.76	
10	192.77	192.91	193.37	193.90	195.28	195.57	194.20	193.25	193.15	192.92	192.84	192.78	
11	192.75	192.90	193.26	193.77	195.34	195.45	194.74	193.23	193.14	192.92	192.84	192.78	
12	192.82	192.95	193.20	193.73	195.16	195.79	194.83	193.23	193.14	192.91	192.85	192.78	
13	193.03	192.94	193.20	193.99	195.86	196.50	194.31	193.22	193.13	192.91	192.86	192.78	
14	193.13	192.92	193.23	194.73	196.47	196.01	194.10	193.21	193.11	192.90	192.85	192.78	
15	193.15	192.93	193.20	194.46	196.89	195.58	193.97	193.21	193.09	192.89	192.84	192.78	
16	193.18	192.99	193.20	194.11	195.72	195.27	193.87	193.20	193.06	192.89	192.84	192.77	
17	193.06	193.01	193.24	194.00	195.95	194.97	193.80	193.20	193.06	192.88	192.84	192.76	
18	192.94	193.02	193.21	193.97	195.44	194.87	193.74	193.19	193.05	192.88	192.83	192.76	
19	192.93	193.03	193.33	193.81	195.30	194.65	193.69	193.19	193.05	192.88	192.83	192.76	
20	192.91	193.18	193.38	193.84	195.07	194.55	193.67	193.18	193.05	192.88	192.83	192.76	
21	192.87	193.12	193.71	194.66	195.69	194.38	193.64	193.18	193.04	192.88	192.83	192.76	
22	192.84	193.05	194.12	194.39	195.34	194.29	193.63	193.18	193.03	192.88	192.83	192.76	
23	192.82	193.05	193.75	194.28	195.18	194.29	193.60	193.18	193.02	192.87	192.83	192.76	
24	192.83	193.23	194.03	194.31	194.90	194.34	193.59	193.18	193.02	192.86	192.83	192.76	
25	192.82	193.43	193.76	194.38	194.92	194.28	193.59	193.18	193.02	192.86	192.82	192.76	
26	192.82	193.23	193.72	194.26	195.14	194.22	193.56	193.18	193.02	192.86	192.81	192.76	
27	192.83	193.13	194.22	195.42	194.76	194.05	193.52	193.17	193.01	192.86	192.80	192.76	
28	192.86	193.10	196.10	196.72	194.75	193.94	193.50	193.17	193.00	192.85	192.79	192.76	
29	192.88	193.17	196.20	195.56	194.53	193.85	193.48	193.17	192.99	192.85		192.76	
30	192.87	193.27	195.11	195.07	194.45	193.78	193.45	193.17	192.98	192.84		192.76	
31		193.17		194.79	194.32		193.42		192.98	192.84		192.76	
MEAN	192.87	193.04	193.63	194.37	195.11	194.87	193.87	193.21	193.08	192.90	192.83	192.77	
MAX	193.18	193.43	196.20	196.72	196.89	196.50	194.83	193.29	193.17	192.98	192.86	192.79	196.89
MIN	192.74	192.86	192.97	193.73	194.26	193.78	193.42	193.17	192.98	192.84	192.79	192.74	192.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 197.36 M (MSL), AT 5.00 HOURS, ON JUL 28, 1978
ZERO GAGE AT BOTTOM ELEVATION 192.18 M (MSL), RIVER BED 191.97 M (MSL)
LEFT BANK ELEVATION 198.76 M (MSL)
RIGHT BANK ELEVATION 199.04 M (MSL), DRAINAGE AREA 4609 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.50	4.40	9.65	135.50	176.70	146.20	51.80	20.40	13.80	6.20	4.10	3.35	
2	4.70	4.40	7.85	103.00	183.50	200.50	50.90	19.20	13.80	6.20	4.10	3.20	
3	3.05	4.40	6.05	111.40	239.30	276.00	47.60	17.40	13.80	6.20	4.10	3.20	
4	2.90	4.55	11.00	104.20	237.40	220.90	45.20	16.20	13.80	6.05	4.10	3.20	
5	2.75	7.40	19.80	94.20	171.80	180.10	81.00	20.40	13.80	5.90	4.10	3.05	
6	2.60	8.30	18.00	90.90	135.50	140.00	193.70	20.40	13.80	5.75	4.10	2.90	
7	2.60	9.20	14.20	78.80	110.20	256.40	97.50	18.60	13.40	5.60	4.10	2.75	
8	2.60	6.20	15.00	76.60	117.60	341.80	96.40	19.20	13.40	5.45	4.10	2.60	
9	3.20	5.60	22.20	74.40	159.00	449.00	105.40	18.00	13.40	5.30	4.10	2.90	
10	3.05	5.15	25.20	70.00	280.00	339.70	103.00	18.00	13.00	5.30	4.10	3.20	
11	2.75	5.00	18.60	56.30	292.00	314.50	181.80	16.80	12.60	5.30	4.10	3.20	
12	3.80	5.75	15.00	52.70	256.40	388.70	197.10	16.80	12.60	5.15	4.25	3.20	
13	7.85	5.60	15.00	79.90	404.80	574.00	116.30	16.20	12.20	5.15	4.40	3.20	
14	12.20	5.30	16.80	180.10	564.69	439.40	92.00	15.60	11.40	5.00	4.25	3.20	
15	13.00	5.45	15.00	137.00	704.60	341.80	77.70	15.60	10.55	4.85	4.10	3.20	
16	14.20	6.35	15.00	93.10	372.60	278.00	66.70	15.00	9.20	4.85	4.10	3.05	
17	9.20	6.95	17.40	81.00	425.50	220.90	59.00	15.00	9.20	4.70	4.10	2.90	
18	5.60	7.40	15.60	77.70	312.40	203.90	53.60	14.60	8.75	4.70	3.95	2.90	
19	5.45	7.85	22.80	60.10	284.00	167.00	49.20	14.60	8.75	4.70	3.95	2.90	
20	5.15	14.20	25.80	63.40	239.30	151.00	47.60	14.20	8.75	4.70	3.95	2.90	
21	4.55	11.80	50.90	168.60	365.80	125.40	45.20	14.20	8.30	4.70	3.95	2.90	
22	4.10	8.75	94.20	126.70	292.00	113.80	44.40	14.20	7.85	4.70	3.95	2.90	
23	3.80	8.75	54.50	112.60	260.20	113.80	42.00	14.20	7.40	4.55	3.95	2.90	
24	3.95	16.80	84.30	116.30	209.00	120.20	41.25	14.20	7.40	4.40	3.95	2.90	
25	3.80	29.25	55.40	125.40	212.40	112.60	41.25	14.20	7.40	4.40	3.80	2.90	
26	3.80	16.80	51.80	110.20	252.60	105.40	39.00	14.20	7.40	4.40	3.65	2.90	
27	3.95	12.20	105.40	308.20	185.20	86.50	36.00	13.80	6.95	4.40	3.50	2.90	
28	4.40	11.00	461.00	646.80	183.50	74.40	34.50	13.80	6.50	4.25	3.35	2.90	
29	4.70	13.80	486.00	337.60	147.80	64.50	33.00	13.80	6.35	4.25		2.90	
30	4.55	19.20	246.90	239.30	135.50	57.20	30.75	13.80	6.20	4.10		2.90	
31		13.80		190.30	117.60		28.50		6.20	4.10		2.90	
TOTAL	151.75	291.60	2016.35	4302.30	8028.88	6603.59	2229.35	482.60	317.95	155.30	112.25	92.90	24784.81 CMSDAY
MEAN	5.06	9.41	67.21	138.78	259.00	220.12	71.91	16.09	10.26	5.01	4.01	3.00	67.90 CMS
MAX	14.20	29.25	486.00	646.80	704.60	574.00	197.10	20.40	13.80	6.20	4.40	3.35	704.60 CMS
MIN	2.60	4.40	6.05	52.70	110.20	57.20	28.50	13.80	6.20	4.10	3.35	2.60	2.60 CMS
RUNOFF	13.111	25.194	174.213	371.718	693.696	570.550	192.616	41.697	27.471	13.418	9.698	8.027	2141.407 MCM

MOMENTARY PEAK 873.80 CMS, AT 197.36 M (MSL), AT 5.00 HOURS, ON JUL 28, 1978

RUNOFF YIELD 14.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 189.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAN RIVER BASIN

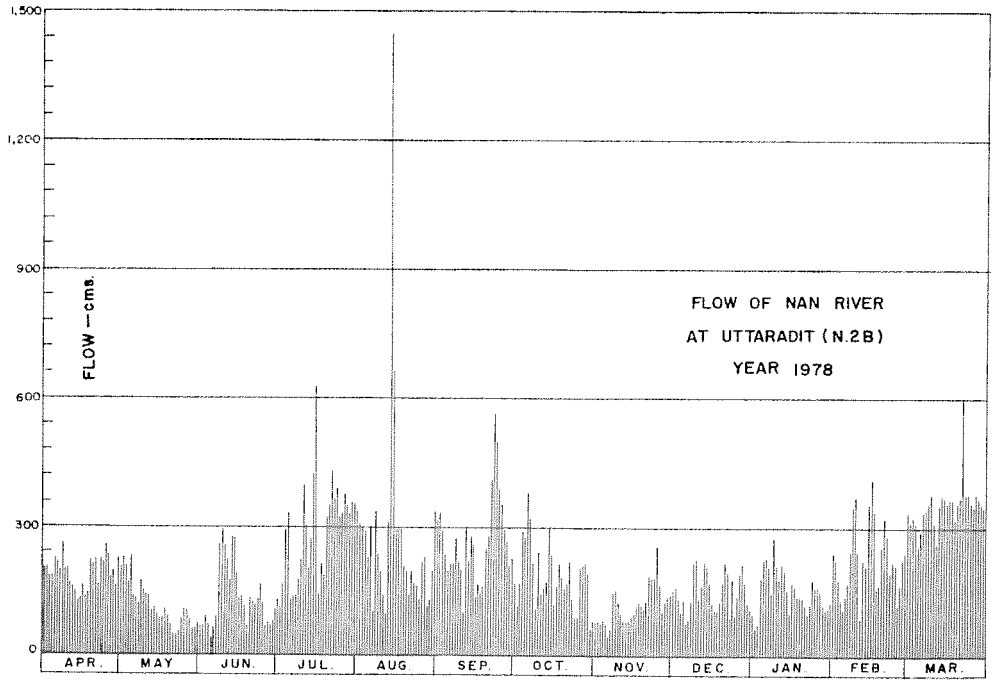
NAN RIVER AT UTTARADIT, UTTARADIT (N.2B)

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.S.
LOCATION	BEHIND THE AUTOMATIC GAGE BUILDING.
ELEVATION	+62.517 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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 202 DISCHARGE MEASUREMENTS MADE DURING 1970-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	55.04	55.04	53.81	54.46	55.76	55.70	54.76	54.00	54.66	53.84	55.26	55.80	
2	54.97	55.18	53.94	54.29	55.60	55.78	54.37	53.97	54.65	53.73	55.15	55.66	
3	54.87	55.11	54.07	55.08	55.57	55.52	55.28	53.94	54.42	54.35	54.80	55.73	
4	54.92	54.78	53.80	55.79	55.53	55.24	55.58	53.99	54.16	55.01	54.35	55.64	
5	55.15	55.18	53.39	54.85	55.17	54.95	55.48	53.91	54.47	55.18	54.27	55.36	
6	55.12	54.46	53.94	54.42	55.56	55.12	56.03	53.54	53.87	55.20	54.74	55.70	
7	54.97	54.44	54.15	54.52	54.20	55.11	55.42	53.90	54.12	54.95	54.96	55.81	
8	55.37	54.31	55.37	54.58	55.80	55.46	54.72	54.61	54.95	54.63	55.45	55.82	
9	54.97	54.82	55.55	54.92	55.12	55.09	54.29	54.63	55.17	55.47	55.94	55.93	
10	55.03	54.56	55.43	55.26	54.90	54.99	55.30	54.26	55.15	54.91	55.96	56.00	
11	54.71	54.53	55.22	56.09	54.30	54.18	54.59	53.99	54.48	54.87	54.79	55.69	
12	54.69	54.31	54.82	55.33	54.15	55.58	54.68	53.99	54.86	55.10	54.05	55.50	
13	54.56	54.19	55.47	55.03	56.41	55.15	54.92	53.98	55.09	54.97	55.18	55.89	
14	54.43	54.30	55.44	55.81	59.13	55.50	55.58	54.02	55.02	54.59	55.11	55.97	
15	54.49	54.06	54.51	56.95	56.68	55.33	55.25	54.06	54.47	54.16	55.88	55.91	
16	54.74	53.99	54.46	55.53	55.54	54.53	54.36	54.17	54.32	54.79	56.15	55.88	
17	54.47	54.05	54.51	54.56	55.59	54.77	54.85	54.44	54.19	54.73	55.82	55.93	
18	54.78	54.21	54.17	55.10	55.57	54.59	55.12	54.39	54.39	54.51	54.70	55.92	
19	55.13	54.11	53.81	54.90	54.99	55.26	54.87	54.32	54.55	54.54	54.80	55.72	
20	55.08	53.92	54.51	55.79	54.97	55.41	54.71	54.22	54.94	54.43	55.49	55.91	
21	55.17	53.58	54.33	55.91	54.57	55.55	54.85	54.52	55.10	54.30	55.72	56.00	
22	54.75	53.59	54.36	56.23	54.97	56.25	55.13	54.93	54.88	54.19	55.50	56.90	
23	55.18	53.68	54.50	55.93	54.77	56.75	54.33	54.87	54.04	54.61	54.97	55.98	
24	55.10	54.01	54.73	56.07	54.73	56.32	54.04	54.90	54.83	54.84	55.14	56.01	
25	55.37	54.22	54.15	55.72	54.47	55.99	54.14	55.35	54.13	54.72	55.10	55.88	
26	55.18	54.29	53.79	55.79	55.16	55.81	55.05	54.50	54.82	54.74	54.42	55.85	
27	54.86	54.06	53.95	56.00	55.21	55.45	55.09	54.22	55.01	54.46	55.14	56.00	
28	54.98	53.82	53.84	55.82	54.36	55.31	55.09	54.54	55.11	54.36	55.22	55.97	
29	54.72	53.76	54.10	55.77	54.58	55.04	54.90	54.54	54.40	54.24		55.86	
30	55.16	53.80	54.32	55.90	55.25	55.16	53.76	54.59	54.37	54.34		55.85	
31		53.91		55.85	55.80		53.98		54.19	54.63		56.03	
MEAN	54.93	54.27	54.41	55.43	55.30	55.36	54.86	54.31	54.61	54.63	55.14	55.87	
MAX	55.37	55.18	55.55	56.95	59.13	56.75	56.03	55.35	55.17	55.47	56.15	56.90	59.13
MIN	54.43	53.58	53.39	54.29	54.15	54.18	53.76	53.54	53.87	53.73	54.05	55.36	53.39

ANNUAL MAX MOMENTARY GAGE HEIGHT 59.68 M (MSL), AT 7.00 HOURS, ON AUG 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 52.30 M (MSL), RIVER BED 53.20 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	204.4	204.4	64.8	129.2	330.0	318.0	165.2	82.0	153.2	67.2	239.6	338.0	
2	193.8	226.8	76.0	111.0	300.0	334.0	119.0	79.0	152.0	58.4	222.0	310.8	
3	179.8	215.6	89.0	210.8	294.6	285.6	242.8	76.0	124.4	117.0	170.0	324.0	
4	186.8	167.6	64.0	336.0	287.4	236.4	296.4	81.0	98.0	199.6	117.0	307.2	
5	222.0	226.8	35.4	177.0	225.2	191.0	278.4	73.0	130.4	226.8	109.0	256.8	
6	217.2	129.2	76.0	124.4	292.8	217.2	384.6	44.4	69.6	230.0	162.8	318.0	
7	193.8	126.8	97.0	136.4	102.0	215.6	267.6	72.0	94.0	191.0	192.4	340.0	
8	258.6	113.0	258.6	143.6	338.0	274.8	160.4	147.2	191.0	149.6	273.0	342.0	
9	193.8	172.8	291.0	186.8	217.2	212.4	111.0	149.6	225.2	276.6	366.0	364.0	
10	202.8	141.2	269.4	239.6	184.0	196.6	246.0	108.0	222.0	185.4	370.0	378.0	
11	159.2	137.6	233.2	397.8	112.0	100.0	144.8	81.0	131.6	179.8	168.8	316.2	
12	156.8	113.0	172.8	251.4	97.0	296.4	155.6	81.0	178.4	214.0	87.0	282.0	
13	141.2	101.0	276.6	202.8	474.4	222.0	186.8	80.0	212.4	193.8	226.8	356.0	
14	125.6	112.0	271.2	340.0	1446.0	282.0	296.4	84.0	201.2	144.8	215.6	372.0	
15	132.8	88.0	135.2	619.0	544.6	251.4	238.0	88.0	130.4	98.0	354.0	360.0	
16	162.8	81.0	129.2	287.4	289.2	137.6	118.0	99.0	114.0	168.8	412.0	354.0	
17	130.4	87.0	135.2	141.2	298.2	166.4	177.0	126.8	101.0	161.6	342.0	364.0	
18	167.6	103.0	99.0	214.0	294.6	144.8	217.2	121.0	121.0	135.2	158.0	362.0	
19	218.8	93.0	64.8	184.0	196.6	239.6	179.8	114.0	140.0	138.8	170.0	322.0	
20	210.8	74.0	135.2	336.0	193.8	265.8	159.2	104.0	189.6	125.6	280.2	360.0	
21	225.2	46.8	115.0	360.0	142.4	291.0	177.0	136.4	214.0	112.0	322.0	378.0	
22	164.0	47.4	118.0	431.2	193.8	436.0	218.8	188.2	181.2	101.0	282.0	604.0	
23	226.8	54.4	134.0	364.0	166.4	563.5	115.0	179.8	86.0	147.2	193.8	374.0	
24	214.0	83.0	161.6	393.4	161.6	452.8	86.0	184.0	174.2	175.6	220.4	380.2	
25	258.6	104.0	97.0	322.0	130.4	376.0	96.0	255.0	95.0	160.4	214.0	354.0	
26	226.8	111.0	63.2	336.0	223.6	340.0	206.0	134.0	172.8	162.8	124.4	348.0	
27	178.4	88.0	77.0	378.0	231.6	273.0	212.4	104.0	199.6	129.2	220.4	378.0	
28	195.2	65.6	67.2	342.0	118.0	247.8	212.4	138.8	215.6	118.0	233.2	372.0	
29	160.4	60.8	92.0	332.0	143.6	204.4	184.0	138.8	122.0	106.0		350.0	
30	223.6	64.0	114.0	358.0	238.0	223.6	60.8	144.8	119.0	116.0		348.0	
31		73.0		348.0	338.0		80.0		101.0	149.6		384.6	
TOTAL	5732.0	3511.8	4012.6	8733.0	8605.0	7995.7	5792.6	3494.8	4659.8	4739.8	6446.4	10997.8	74721.2 CMSDAY
MEAN	191.1	113.3	133.8	281.7	277.6	266.5	186.9	116.5	150.3	152.9	230.2	354.8	204.7 CMS
MAX	258.6	226.8	291.0	619.0	1446.0	563.5	384.6	255.0	225.2	276.6	412.0	604.0	1446.0 CMS
MIN	125.6	46.8	35.4	111.0	97.0	100.0	60.8	44.4	69.6	58.4	87.0	256.8	35.4 CMS
RUNOFF	495.24	303.42	346.69	754.53	743.47	690.83	500.48	301.95	402.61	409.52	556.97	950.21	6455.91 MCM

MOMENTARY PEAK 1666.00 CMS, AT 59.68 M (MSL), AT 7.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 12.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 98.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +53.327 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 — NO OVERBANK FLOW.

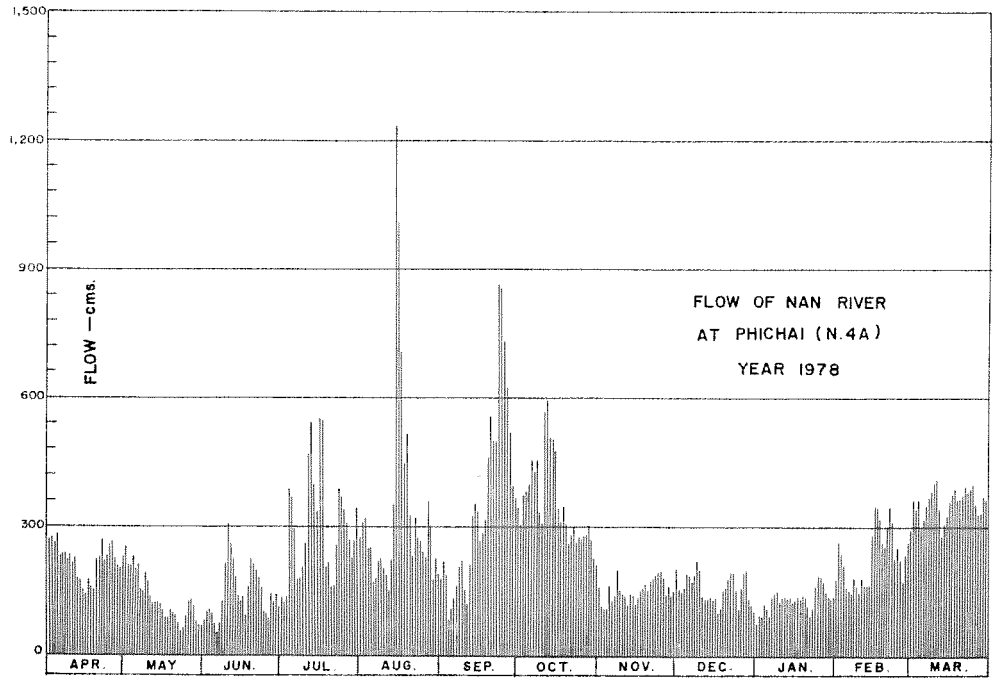
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1974.

REMARKS — ESTIMATED GAGE HEIGHT DURING AUG.13-26,1978 BY CORRELATION WITH N.26.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	47.08	46.94	45.73	46.15	47.25	46.53	47.48	46.20	46.68	45.57	46.62	47.30	
2	47.08	46.66	45.91	46.06	47.36	46.77	47.25	45.99	46.29	45.85	47.04	47.59	
3	47.02	46.70	45.93	46.23	46.93	46.53	47.72	45.94	46.29	45.80	46.91	47.47	
4	47.15	46.82	45.81	47.72	46.94	45.98	47.69	46.01	46.40	46.09	46.58	47.58	
5	46.82	46.65	45.57	47.55	46.71	46.10	47.83	46.42	46.61	45.98	46.28	47.23	
6	46.89	46.70	45.37	46.71	46.43	46.26	48.09	46.08	46.53	45.79	46.30	47.36	
7	46.89	46.26	45.78	46.47	46.72	46.47	47.93	46.27	46.44	46.23	46.23	47.59	
8	46.77	46.27	46.27	46.52	46.81	46.70	48.07	46.63	46.62	46.29	46.53	47.66	
9	46.87	46.56	46.91	46.71	46.64	46.79	47.32	46.31	46.80	46.28	46.38	47.73	
10	46.72	46.25	47.26	47.18	46.66	46.34	47.30	46.24	46.63	46.09	46.27	47.81	
11	46.81	46.02	46.99	48.24	46.43	46.02	48.69	46.17	46.19	46.18	46.53	47.86	
12	46.49	46.08	46.81	48.52	46.30	46.57	48.77	46.00	46.10	46.18	46.36	47.42	
13	46.48	46.07	46.53	47.59	47.53	47.42	48.34	46.21	46.19	46.16	46.36	47.11	
14	46.32	46.06	46.13	47.47	51.45	47.53	48.29	46.20	46.24	46.19	46.45	47.35	
15	46.21	46.02	46.08	48.55	50.66	47.42	48.10	46.05	46.10	46.09	47.16	47.40	
16	46.36	45.80	46.19	48.51	48.58	47.06	47.38	46.21	46.20	46.10	47.54	47.64	
17	46.48	45.72	45.79	47.44	48.01	47.18	47.31	46.28	45.88	46.17	47.50	47.67	
18	46.23	45.85	46.39	46.68	48.36	47.37	47.55	46.38	46.04	46.13	47.38	47.73	
19	46.75	45.93	46.80	46.74	47.52	48.10	47.32	46.40	46.34	46.24	47.04	47.57	
20	46.82	45.81	46.68	46.35	47.41	48.58	47.02	46.33	46.41	46.18	46.96	47.62	
21	46.86	45.72	46.59	46.42	46.85	48.29	47.17	46.48	46.56	46.00	47.38	47.66	
22	47.09	45.55	46.47	46.94	47.37	48.30	47.25	46.50	46.56	45.78	47.51	47.76	
23	46.76	45.40	46.30	47.72	47.08	49.97	47.02	46.61	46.58	46.04	47.23	47.68	
24	46.98	45.59	45.87	47.60	47.04	49.92	47.13	46.60	46.25	46.38	46.82	47.74	
25	47.04	45.99	45.88	47.46	46.87	49.44	47.08	46.61	45.93	46.57	46.95	47.78	
26	46.85	46.12	45.75	47.31	46.81	49.06	47.14	46.51	46.37	46.53	46.75	47.51	
27	46.76	46.06	46.23	47.08	47.58	48.59	47.21	46.21	46.57	46.45	46.45	47.41	
28	46.65	45.82	46.07	46.79	46.92	48.11	47.28	46.40	46.58	46.26	46.91	47.45	
29	46.70	45.63	46.22	47.29	46.43	47.71	46.96	46.21	46.09	46.18		47.63	
30	46.83	45.55	45.99	47.50	46.80	47.63	46.84	46.37	46.01	46.13		47.59	
31		45.60		47.10	46.53		46.67		45.80	46.22		47.63	
MEAN	46.76	46.07	46.21	47.18	47.32	47.49	47.52	46.29	46.33	46.13	46.80	47.57	
MAX	47.15	46.94	47.26	48.55	51.45	49.97	48.77	46.63	46.80	46.57	47.54	47.86	51.45
MIN	46.21	45.40	45.37	46.06	46.30	45.98	46.67	45.94	45.80	45.57	46.23	47.11	45.37

ANNUAL MAX MOMENTARY GAGE HEIGHT = 52.57 M (MSL), AT HOURS, ON AUG 14, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	271.6	247.8	85.9	133.0	300.5	184.5	341.4	139.0	207.0	69.3	198.0	309.0	
2	271.6	204.0	105.1	122.2	319.8	220.5	300.5	113.9	149.8	98.5	264.8	362.1	
3	261.4	210.0	107.3	142.6	246.1	184.5	386.8	108.4	149.8	93.0	242.7	339.6	
4	283.5	228.2	94.1	386.8	247.8	112.8	381.1	116.2	165.0	125.8	192.0	360.2	
5	228.2	202.5	69.3	354.5	211.5	127.0	407.7	168.0	196.5	112.8	148.6	297.1	
6	239.4	210.0	51.6	211.5	169.5	146.2	459.0	124.6	184.5	91.9	151.0	319.8	
7	239.4	146.2	90.8	175.5	213.0	175.5	427.0	147.4	171.0	142.6	142.6	362.1	
8	220.5	147.4	147.4	183.0	226.6	210.0	455.0	199.5	198.0	149.8	184.5	375.4	
9	236.2	189.0	242.7	211.5	201.0	223.5	312.6	152.4	225.0	148.6	162.2	388.7	
10	213.0	145.0	302.2	288.6	204.0	156.6	309.0	143.8	199.5	125.8	147.4	403.9	
11	226.6	117.4	256.3	489.0	169.5	117.4	581.9	135.4	137.8	136.6	184.5	413.4	
12	178.5	124.6	226.6	546.2	151.0	190.5	598.7	115.0	127.0	136.6	159.4	330.6	
13	177.0	123.4	184.5	362.1	350.7	330.6	509.0	140.2	137.8	134.2	159.4	276.7	
14	153.8	122.2	130.6	339.6	1229.0	350.7	499.0	139.0	143.8	137.8	172.5	318.0	
15	140.2	117.4	124.6	552.5	1029.4	330.6	461.0	121.0	127.0	125.8	285.2	327.0	
16	159.4	93.0	137.8	544.1	558.8	268.2	323.4	140.2	139.0	127.0	352.6	371.6	
17	177.0	84.2	91.9	334.2	443.0	288.6	310.8	148.6	101.8	135.4	345.0	377.3	
18	142.6	98.5	163.6	207.0	513.0	321.6	354.5	162.2	119.8	130.6	323.4	388.7	
19	217.5	107.3	225.0	216.0	348.8	461.0	312.6	165.0	156.6	143.8	264.8	358.3	
20	228.2	94.1	207.0	158.0	328.8	558.8	261.4	155.2	166.5	136.6	251.2	367.8	
21	234.6	84.2	193.5	168.0	233.0	499.0	286.9	177.0	189.0	115.0	323.4	375.4	
22	273.3	67.5	175.5	247.8	321.6	501.0	300.5	180.0	189.0	90.8	346.9	394.4	
23	219.0	54.0	151.0	386.8	271.6	863.8	261.4	196.5	192.0	119.8	297.1	379.2	
24	254.6	71.1	100.7	364.0	264.8	851.8	280.1	195.0	145.0	162.2	228.2	390.6	
25	264.8	113.9	101.8	337.8	236.2	743.8	271.6	196.5	107.3	190.5	249.5	398.2	
26	233.0	129.4	87.5	310.8	226.6	660.2	281.8	181.5	160.8	184.5	217.5	346.9	
27	219.0	122.2	142.6	271.6	360.2	560.9	293.7	140.2	190.5	172.5	172.5	328.8	
28	202.5	95.2	123.4	223.5	244.4	463.0	305.6	165.0	192.0	146.2	242.7	336.0	
29	210.0	75.0	141.4	307.3	169.5	384.9	251.2	140.2	125.8	136.6		369.7	
30	229.8	67.5	113.9	345.0	225.0	369.7	231.4	160.8	116.2	130.6		362.1	
31		72.0		275.0	184.5		205.5		93.0	141.4		369.7	
TOTAL	6606.2	3964.2	4375.0	9195.5	10199.2	10857.2	10962.1	4567.7	4903.8	4092.6	6409.6	11098.3	87231.3 CMSDAY
MEAN	220.2	127.9	145.8	296.6	329.0	361.9	353.6	152.3	158.2	132.0	228.9	358.0	239.0 CMS
MAX	283.5	247.8	302.2	552.5	1229.0	863.8	598.7	199.5	225.0	190.5	352.6	413.4	1229.0 CMS
MIN	140.2	54.0	51.6	122.2	151.0	112.8	205.5	108.4	93.0	69.3	142.6	276.7	51.6 CMS
RUNOFF	570.78	342.51	378.00	794.49	881.21	938.06	947.12	394.65	423.69	353.60	553.79	958.89	7536.78 MCM

MOMENTARY PEAK 1546.70 CMS, AT 52.57 M (MSL), AT HOURS, ON AUG 14, 1978
RUNOFF YIELD 12.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 79.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 111 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

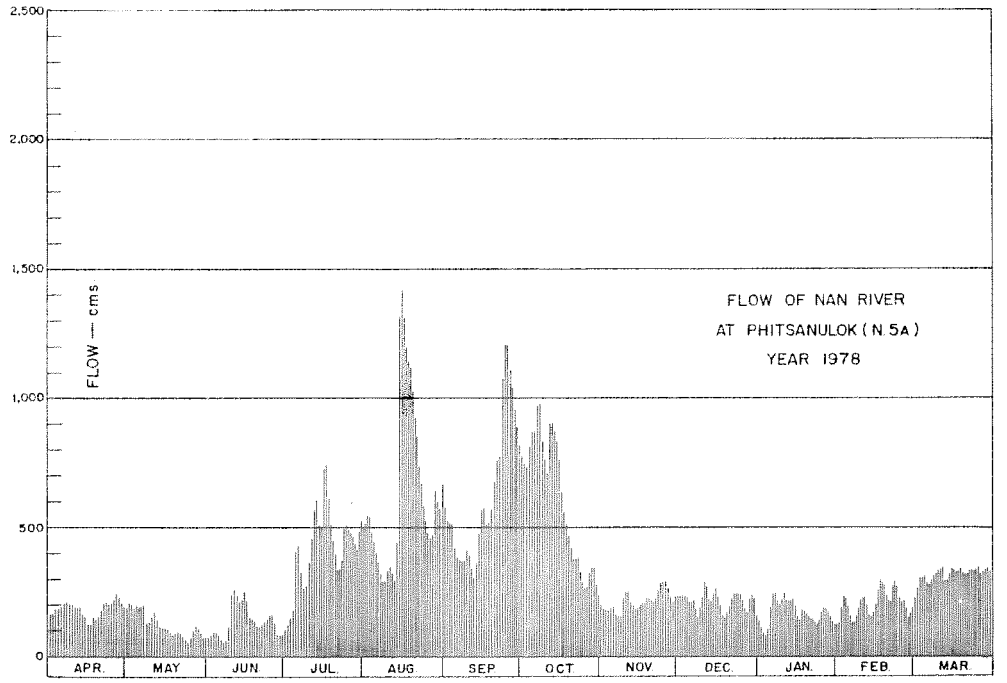
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	36.38	36.72	35.30	35.77	39.28	40.09	41.10	36.73	37.20	36.29	36.15	36.92	
2	36.43	36.86	35.43	36.05	39.61	39.50	40.90	36.70	37.18	35.98	36.73	37.38	
3	36.71	36.74	35.61	36.19	39.61	39.48	40.81	36.63	37.21	35.61	37.19	37.78	
4	36.64	36.65	35.69	36.63	39.12	39.42	41.23	36.65	37.12	35.54	37.05	37.77	
5	36.67	36.80	35.52	38.52	39.88	38.73	41.57	36.73	36.92	35.81	36.61	37.87	
6	36.89	36.69	35.29	38.74	39.80	38.44	41.55	36.75	36.74	37.04	36.18	37.57	
7	36.90	36.81	34.96	37.98	38.03	38.37	42.02	36.38	36.79	37.26	36.17	37.58	
8	36.82	36.29	35.23	37.38	37.73	38.30	42.09	36.37	37.37	37.19	36.60	37.78	
9	36.80	36.08	35.94	37.44	37.61	38.51	41.34	36.95	36.68	36.84	36.87	37.93	
10	36.78	36.19	37.08	37.92	38.01	38.63	40.91	37.31	37.40	37.05	37.08	38.03	
11	36.66	36.55	37.38	38.67	38.12	38.31	40.66	37.31	37.63	37.36	37.12	38.13	
12	36.73	36.31	37.19	39.73	37.82	37.77	41.65	36.97	37.39	36.99	36.82	38.15	
13	36.49	35.99	36.95	40.00	37.62	38.12	41.74	36.83	36.96	37.01	36.42	37.67	
14	36.37	35.89	37.01	39.34	39.70	39.19	41.52	36.78	37.29	37.08	36.41	37.74	
15	36.20	35.90	37.30	39.34	43.48	39.79	41.26	36.64	37.47	36.84	37.44	38.03	
16	36.03	35.91	36.87	40.77	43.81	39.82	40.81	36.85	37.19	36.44	37.34	38.10	
17	36.11	35.69	36.34	40.88	43.28	39.45	39.81	36.84	36.68	36.23	37.76	38.05	
18	36.34	35.53	36.23	39.97	42.83	39.36	39.37	36.91	36.38	36.66	37.67	38.05	
19	36.18	35.57	36.18	39.31	42.70	39.59	39.19	37.10	36.35	36.59	37.49	38.13	
20	36.53	35.75	35.97	38.83	42.29	40.51	38.80	37.08	36.68	36.47	37.10	37.96	
21	36.81	35.67	35.82	38.47	41.72	40.95	38.40	36.97	37.05	36.43	36.98	37.94	
22	36.84	35.57	35.96	38.01	40.90	41.34	38.39	36.91	37.30	36.24	37.52	38.00	
23	36.95	35.41	36.19	38.31	40.30	41.99	38.44	37.35	37.27	36.13	37.72	38.10	
24	36.83	35.13	36.26	39.30	39.92	43.03	37.99	36.65	37.24	36.09	37.38	38.03	
25	36.92	35.14	36.43	39.39	39.32	43.09	37.38	36.64	37.23	36.54	36.91	38.09	
26	37.12	35.53	36.41	39.25	38.92	42.81	37.48	36.66	36.78	36.74	37.32	38.14	
27	37.22	35.87	35.95	39.09	39.01	42.46	37.93	37.48	36.44	36.70	36.68	37.92	
28	36.99	35.93	35.54	38.79	40.35	42.06	38.16	37.13	36.98	36.57	36.39	38.02	
29	36.83	35.65	35.50	38.66	40.14	41.71	38.18	36.96	37.20	36.33		38.11	
30	36.71	35.38	35.46	39.23	39.78	41.31	37.72	37.19	37.08	36.16		38.10	
31		35.29		39.48	40.43		37.14		36.47	36.01		38.03	
MEAN	36.66	35.98	36.10	38.63	40.04	40.07	39.84	36.88	37.02	36.52	36.97	37.91	
MAX	37.22	36.86	37.38	40.88	43.81	43.09	42.09	37.48	37.63	37.36	37.76	38.15	43.81
MIN	36.03	35.13	34.96	35.77	37.61	37.77	37.14	36.37	36.35	35.54	36.15	36.92	34.96

ANNUAL MAX MOMENTARY GAGE HEIGHT 43.99 M (MSL), AT 24.00 HOURS, ON AUG 15, 1978

ZERO GAGE AT BOTTOM ELEVATION 34.50 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 25286 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	154.0	188.0	67.0	99.6	492.2	614.4	779.0	189.0	237.1	145.0	131.5	208.0	
2	159.0	202.0	75.1	122.5	538.5	523.0	744.0	186.0	234.9	116.4	189.0	257.2	
3	187.0	190.0	87.7	135.1	538.5	520.2	729.6	179.0	238.3	87.7	236.0	301.8	
4	180.0	181.0	93.3	179.0	469.8	511.8	804.0	181.0	228.2	82.8	221.0	300.7	
5	183.0	196.0	81.4	391.6	580.8	418.9	872.0	189.0	208.0	102.8	177.0	312.4	
6	205.0	185.0	66.4	420.2	568.0	381.2	868.0	191.0	190.0	220.0	134.2	278.4	
7	206.0	197.0	47.0	325.6	331.6	372.4	962.0	154.0	195.0	243.8	133.3	279.5	
8	198.0	145.0	62.8	257.2	296.2	364.0	976.0	153.0	256.1	236.0	176.0	301.8	
9	196.0	125.2	113.2	263.9	282.8	390.3	826.0	211.0	184.0	200.0	203.0	319.6	
10	194.0	135.1	224.0	318.4	329.2	405.9	681.6	249.4	259.4	221.0	224.0	331.6	
11	182.0	171.0	257.2	411.1	342.4	365.2	705.6	249.4	285.1	255.0	228.2	343.6	
12	189.0	147.0	236.0	556.8	306.4	300.7	888.0	213.0	258.3	215.0	198.0	346.0	
13	165.0	117.2	211.0	600.0	283.9	342.4	906.0	199.0	212.0	217.0	158.0	289.5	
14	153.0	109.2	217.0	500.6	552.0	479.6	862.0	194.0	247.2	224.0	157.0	297.3	
15	136.0	110.0	248.3	500.6	1317.4	566.4	810.0	180.0	267.2	200.0	263.9	331.6	
16	120.7	110.8	203.0	723.2	1411.9	571.2	729.6	201.0	236.0	160.0	252.7	340.0	
17	127.9	93.3	150.0	740.8	1261.6	516.0	569.6	200.0	184.0	139.0	299.5	334.0	
18	150.0	82.1	139.0	595.2	1144.5	503.4	504.8	207.0	154.0	182.0	289.5	334.0	
19	134.2	84.9	134.2	496.4	1113.0	535.6	479.6	226.0	151.0	175.0	269.5	343.6	
20	169.0	98.0	115.6	431.9	1018.8	681.6	428.0	224.0	184.0	163.0	226.0	323.2	
21	197.0	91.9	103.6	385.1	902.0	752.5	376.0	213.0	221.0	159.0	214.0	320.8	
22	200.0	84.9	114.8	329.2	744.0	826.0	374.8	207.0	248.3	140.0	272.8	328.0	
23	211.0	73.7	135.1	365.2	648.0	956.0	381.2	253.9	244.9	129.7	295.1	340.0	
24	199.0	56.8	142.0	495.0	587.2	1195.8	326.8	181.0	241.6	126.1	257.2	331.6	
25	208.0	57.4	159.0	507.6	497.8	1211.4	257.2	180.0	240.5	170.0	207.0	338.8	
26	228.2	82.1	157.0	488.0	443.6	1139.5	268.3	182.0	194.0	190.0	250.5	344.8	
27	239.4	107.6	114.0	465.7	455.3	1057.8	319.6	268.3	160.0	186.0	184.0	318.4	
28	215.0	112.4	82.8	426.7	656.0	970.0	347.2	229.3	214.0	173.0	155.0	330.4	
29	199.0	90.5	80.0	409.8	622.4	900.0	349.6	212.0	237.1	149.0		341.2	
30	187.0	71.8	77.2	485.2	564.8	820.0	295.1	236.0	224.0	132.4		340.0	
31		66.4		520.2	668.8		230.5		163.0	118.9		331.6	
TOTAL	5472.4	3763.3	3994.7	12947.4	19969.4	19193.2	18651.7	6138.3	6798.2	5259.6	6002.9	9839.4	118030.4 CMSDAY
MEAN	182.4	121.4	133.2	417.7	644.2	639.8	601.7	204.6	219.3	169.7	214.4	317.4	323.4 CMS
MAX	239.4	202.0	257.2	740.8	1411.9	1211.4	976.0	268.3	285.1	255.0	299.5	346.0	1411.9 CMS
MIN	120.7	56.8	47.0	99.6	282.8	300.7	230.5	153.0	151.0	82.8	131.5	208.0	47.0 CMS
RUNOFF	472.82	325.15	345.14	1118.65	1725.35	1658.29	1611.51	530.35	587.36	454.43	518.65	850.12	10197.82 MCM

MOMENTARY PEAK 1464.10 CMS, AT 43.99 M (MSL), AT 24.00 HOURS, ON AUG 15, 1978

RUNOFF YIELD 12.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 57.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

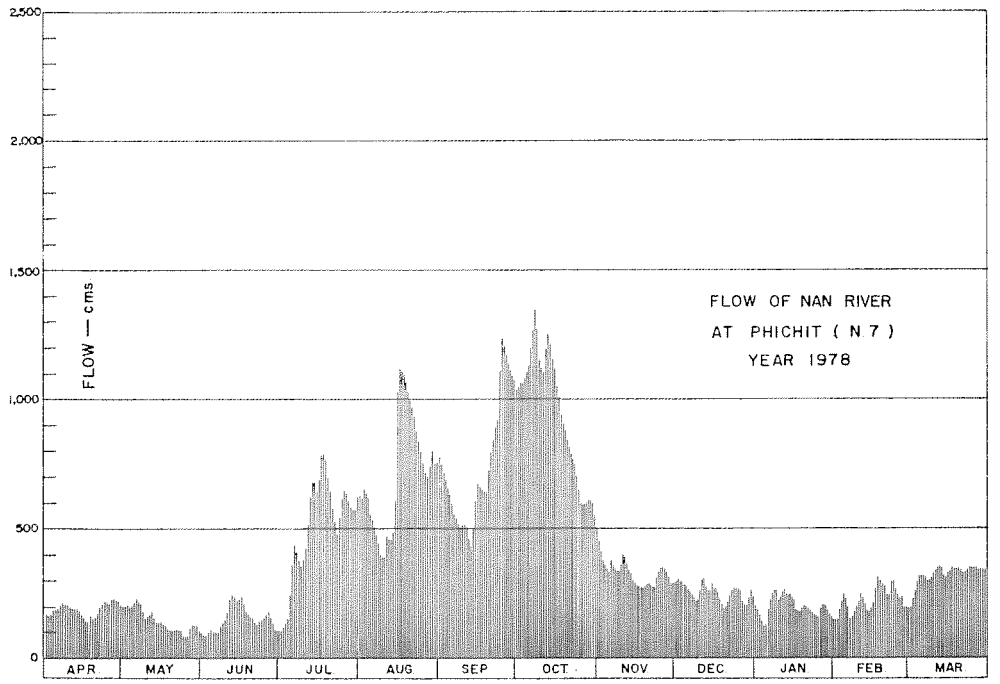
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	28.32	28.78	27.22	27.47	32.76	34.01	35.78	31.42	29.82	28.70	28.10	28.73	
2	28.33	28.82	27.22	27.83	32.67	33.73	35.91	31.15	29.86	28.48	28.24	29.13	
3	28.38	28.86	27.40	28.02	32.93	33.44	35.88	30.58	29.81	28.15	28.89	29.66	
4	28.64	28.74	27.55	28.23	32.72	33.17	35.97	30.18	29.81	27.78	29.32	29.96	
5	28.64	28.87	27.57	29.44	32.21	32.89	36.04	30.15	29.67	27.76	29.15	30.00	
6	28.69	29.08	27.47	31.06	32.00	32.30	36.16	30.56	29.44	28.59	28.74	30.06	
7	28.86	28.96	27.33	31.14	31.64	32.04	36.27	30.46	29.25	29.26	28.29	29.78	
8	28.88	28.86	27.90	30.68	31.22	31.85	36.38	30.17	29.16	29.47	28.32	29.84	
9	28.79	28.40	28.03	30.40	30.75	31.76	36.27	30.22	28.96	29.36	28.70	30.03	
10	28.80	28.20	28.25	30.57	30.69	31.88	36.05	30.54	29.22	29.04	29.04	30.15	
11	28.73	28.35	28.97	31.16	31.27	31.81	35.99	30.49	29.81	29.36	29.27	30.28	
12	28.66	28.53	29.30	32.08	31.39	31.51	36.10	30.60	29.96	29.43	29.23	30.37	
13	28.68	28.33	29.18	33.10	31.34	31.09	36.25	30.26	29.52	29.21	28.94	30.29	
14	28.49	28.02	28.93	33.23	31.81	31.66	36.18	30.07	29.42	29.27	28.56	29.91	
15	28.32	27.95	29.09	32.94	35.00	32.59	36.10	29.80	29.66	29.27	28.60	30.02	
16	28.11	27.95	29.23	33.19	36.01	33.11	36.00	29.63	29.46	29.03	28.95	30.26	
17	28.00	27.85	28.89	34.07	36.00	33.07	35.78	29.55	29.48	28.65	29.58	30.30	
18	28.06	27.60	28.47	33.98	35.93	32.88	35.35	29.51	28.99	28.48	29.93	30.26	
19	28.21	27.70	28.33	33.46	35.89	32.91	35.02	29.60	28.69	28.81	29.83	30.30	
20	28.16	27.55	28.22	33.01	35.70	33.56	34.74	29.66	28.60	28.75	29.65	30.31	
21	28.50	27.62	28.01	32.49	35.53	34.28	34.38	29.68	29.00	28.63	29.24	30.14	
22	28.76	27.63	27.93	32.03	35.24	34.58	34.06	29.55	29.37	28.57	29.28	30.13	
23	28.84	27.52	28.02	31.47	34.71	35.05	33.85	29.54	29.57	28.38	29.77	30.26	
24	28.93	27.35	28.19	32.08	34.35	36.00	33.47	30.08	29.53	28.23	29.86	30.35	
25	28.86	27.15	28.30	32.79	33.88	36.23	32.89	30.33	29.52	28.24	29.44	30.29	
26	28.95	27.14	28.53	32.89	33.58	36.18	32.42	30.33	29.45	28.68	29.14	30.33	
27	29.12	27.67	28.48	32.78	33.33	36.11	32.43	30.31	29.00	28.86	29.15	30.33	
28	29.12	27.85	27.95	32.65	33.69	36.03	32.59	30.09	28.81	28.84	28.73	30.24	
29	29.02	27.85	27.62	32.24	34.17	35.98	32.63	29.69	29.07	28.63		30.29	
30	28.88	27.60	27.50	32.30	33.79	35.90	32.47	29.68	29.48	28.43		30.31	
31		27.35		32.72	33.80		31.99		29.23	28.24		30.33	
MEAN	28.62	28.07	28.17	31.66	33.42	33.59	34.88	30.13	29.37	28.73	29.07	30.09	
MAX	29.12	29.08	29.30	34.07	36.01	36.23	36.38	31.42	29.96	29.47	29.93	30.37	36.38
MIN	28.00	27.14	27.22	27.47	30.69	31.09	31.99	29.51	28.60	27.76	28.10	28.73	27.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 36.39 M (MSL), AT 12.00 HOURS, ON OCT 8, 1978

ZERO GAGE AT BOTTOM ELEVATION 26.00 M (MSL), RIVER BED 24.41 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	159.6	196.4	83.2	98.2	624.2	774.3	1035.2	465.2	297.0	190.0	142.0	192.4	
2	160.4	199.8	83.2	123.1	613.4	740.6	1074.0	435.5	301.0	172.4	153.2	228.0	
3	164.4	203.4	94.0	136.4	644.6	705.8	1064.0	373.0	296.0	146.0	206.1	281.0	
4	185.2	193.2	103.5	152.4	619.4	673.4	1098.0	333.0	296.0	119.6	247.0	311.0	
5	185.2	204.3	104.9	259.0	558.2	639.8	1129.2	330.0	282.0	118.2	230.0	315.0	
6	189.2	223.2	98.2	425.6	533.0	569.0	1191.6	371.0	259.0	181.2	193.2	321.0	
7	203.4	212.4	89.8	434.4	489.8	537.8	1261.6	361.0	240.0	241.0	157.2	293.0	
8	205.2	203.4	128.0	383.8	443.2	515.0	1344.4	332.0	231.0	262.0	159.6	299.0	
9	197.2	166.0	137.1	355.0	391.5	504.2	1261.6	337.0	212.4	251.0	190.0	318.0	
10	198.0	150.0	154.0	372.0	384.9	518.6	1134.0	369.0	237.0	219.6	219.6	330.0	
11	192.4	162.0	213.3	436.6	448.7	510.2	1106.0	364.0	296.0	251.0	242.0	343.0	
12	186.8	176.4	245.0	542.6	461.9	475.1	1158.0	375.0	311.0	258.0	238.0	352.0	
13	188.4	160.4	233.0	665.0	456.4	428.9	1248.0	341.0	267.0	236.0	210.6	344.0	
14	173.2	136.4	209.7	680.6	510.2	492.2	1202.8	322.0	257.0	242.0	178.8	306.0	
15	159.6	131.5	224.1	645.8	903.0	603.8	1158.0	295.0	281.0	242.0	182.0	317.0	
16	142.8	131.5	238.0	675.8	1114.8	666.2	1110.0	278.0	261.0	218.7	211.5	341.0	
17	135.0	124.5	206.1	782.1	1110.0	661.4	1035.2	270.0	263.0	186.0	273.0	345.0	
18	139.2	107.0	171.6	770.6	1082.0	638.6	953.5	266.0	215.1	172.4	308.0	341.0	
19	150.8	114.0	160.4	708.2	1067.0	642.2	905.8	275.0	189.2	198.9	298.0	345.0	
20	146.8	103.5	151.6	654.2	1016.0	720.2	869.2	281.0	182.0	194.0	280.0	346.0	
21	174.0	108.4	135.7	591.8	983.4	809.4	822.4	283.0	216.0	184.4	239.0	329.0	
22	194.8	109.1	130.1	536.6	937.0	848.4	780.8	270.0	252.0	179.6	243.0	328.0	
23	201.6	101.4	136.4	470.7	865.3	910.0	755.0	269.0	272.0	164.4	292.0	341.0	
24	209.7	91.0	149.2	542.6	818.5	1110.0	709.4	323.0	268.0	152.4	301.0	350.0	
25	203.4	79.0	158.0	627.8	758.6	1234.4	639.8	348.0	267.0	153.2	259.0	344.0	
26	211.5	78.4	176.4	639.8	722.6	1202.8	583.4	348.0	260.0	188.4	229.0	348.0	
27	227.0	111.9	172.4	626.6	692.6	1163.6	584.6	346.0	216.0	203.4	230.0	348.0	
28	227.0	124.5	131.5	611.0	735.8	1124.4	603.8	324.0	198.9	201.6	192.4	339.0	
29	217.8	124.5	108.4	561.8	795.1	1102.0	608.6	284.0	222.3	184.4		344.0	
30	205.2	107.0	100.0	569.0	747.8	1070.0	589.4	283.0	263.0	168.4		346.0	
31		91.0		619.4	749.0		531.8		236.0	153.2		348.0	
TOTAL	5534.8	4425.5	4526.8	15698.5	22277.9	22592.3	29549.1	9851.7	7846.9	6033.4	6305.2	10033.4	144675.3 CMSDAY
MEAN	184.5	142.8	150.9	506.4	718.6	753.1	953.2	328.4	253.1	194.6	225.2	323.7	396.4 CMS
MAX	227.0	223.2	245.0	782.1	1114.8	1234.4	1344.4	465.2	311.0	262.0	308.0	352.0	1344.4 CMS
MIN	135.0	78.4	83.2	98.2	384.9	428.9	531.8	266.0	182.0	118.2	142.8	192.4	78.4 CMS
RUNOFF	478.21	382.36	391.12	1356.35	1924.81	1951.97	2553.04	851.19	677.97	521.29	544.77	866.89	12499.94 MCM

MOMENTARY PEAK 1352.20 CMS, AT 36.39 M (MSL), AT 12.00 HOURS, ON OCT 8, 1978

RUNOFF YIELD 13.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 46.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S. NO.8

LOCATION — INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — +30.523 M. (M.S.L.)

GAGE READING FREQUENCY — 9-TIME DAILY READINGS AT 01.00, 03.00, 06.00, 09.00, 12.00, 15.00 18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 9 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1951 TO DATE.

RATING OPERATION

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

RATED BY FLOAT — -

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

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

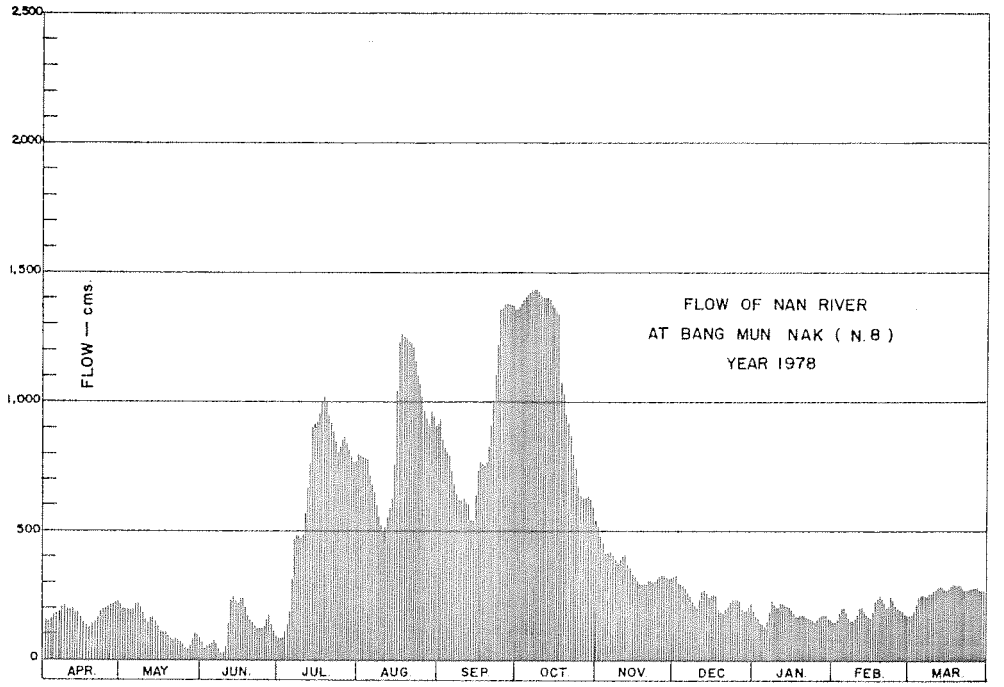
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	22.60	23.08	21.60	21.84	27.70	28.41	30.00	27.07	24.90	23.32	22.46	22.90	
2	22.60	23.00	21.49	21.92	27.66	28.19	30.02	26.71	24.93	22.94	22.38	22.95	
3	22.60	23.03	21.50	22.20	27.65	27.86	30.06	26.44	24.57	22.72	22.62	23.35	
4	22.76	23.04	21.62	22.48	27.67	27.74	30.09	26.05	24.56	22.42	23.21	23.86	
5	22.90	22.97	21.71	22.93	27.37	27.61	30.12	25.78	24.49	22.16	23.42	24.06	
6	22.86	23.21	21.84	24.41	27.03	27.24	30.13	25.82	24.24	22.28	23.20	24.13	
7	22.99	23.23	21.67	25.44	26.80	26.89	30.15	25.80	24.03	23.02	22.82	24.02	
8	23.10	23.18	21.46	25.53	26.43	26.71	30.16	25.63	23.86	23.52	22.51	23.91	
9	23.10	22.94	21.24	25.43	25.96	26.58	30.16	25.42	23.57	23.64	22.54	24.03	
10	23.04	22.62	21.44	25.59	25.61	26.59	30.14	25.48	23.27	23.49	22.97	24.17	
11	23.05	22.48	22.46	26.19	25.82	26.65	30.10	25.67	23.81	23.32	23.23	24.28	
12	22.97	22.65	23.29	26.90	26.19	26.47	30.09	25.72	24.22	23.64	23.39	24.40	
13	22.95	22.75	23.46	27.69	26.39	26.08	30.10	25.48	24.22	23.58	23.31	24.47	
14	22.92	22.53	23.33	28.25	26.71	26.01	30.09	25.23	23.92	23.43	23.00	24.41	
15	22.73	22.31	23.18	28.31	28.08	26.71	30.05	25.04	23.86	23.47	22.75	24.21	
16	22.57	22.18	23.41	28.39	29.53	27.35	30.02	24.84	24.05	23.37	22.87	24.38	
17	22.40	22.18	23.39	28.67	29.77	27.57	29.96	24.65	24.06	23.14	23.26	24.53	
18	22.30	22.10	23.05	28.86	29.75	27.48	29.78	24.55	23.64	22.82	23.81	24.54	
19	22.40	21.97	22.72	28.77	29.72	27.43	29.54	24.47	23.30	22.85	24.02	24.50	
20	22.48	21.84	22.62	28.58	29.70	27.61	29.39	24.54	23.07	23.02	23.90	24.51	
21	22.51	21.85	22.47	28.36	29.66	28.24	29.19	24.68	23.11	22.93	23.65	24.45	
22	22.83	21.91	22.26	28.13	29.59	28.71	28.99	24.67	23.46	22.85	23.34	24.31	
23	23.00	21.86	22.23	27.80	29.39	29.15	28.80	24.57	23.73	22.76	23.56	24.32	
24	23.10	21.77	22.37	27.72	29.09	29.80	28.49	24.60	23.88	22.59	23.93	24.39	
25	23.11	21.61	22.53	27.97	28.80	30.00	28.16	24.85	23.83	22.48	23.36	24.40	
26	23.10	21.43	22.67	28.07	28.57	30.04	27.82	24.95	23.84	22.59	23.49	24.40	
27	23.18	21.45	22.84	27.95	28.41	30.05	27.68	24.93	23.65	22.95	23.30	24.41	
28	23.28	21.81	22.68	27.77	28.33	30.05	27.72	24.86	23.23	23.05	23.22	24.31	
29	23.34	22.10	22.28	27.66	28.55	30.05	27.74	24.79	23.27	23.01		24.26	
30	23.19	22.07	21.97	27.52	28.44	30.03	27.67	24.69	23.29	22.84		24.35	
31		21.84		27.56	28.22		27.42		23.67	22.64		24.38	
MEAN	22.87	22.35	22.36	26.61	28.02	27.98	29.35	25.27	23.86	22.99	23.20	24.18	
MAX	23.34	23.23	23.46	28.86	29.77	30.05	30.16	27.07	24.93	23.64	24.02	24.54	30.16
MIN	22.30	21.43	21.24	21.84	25.61	26.01	27.42	24.47	23.07	22.16	22.38	22.90	21.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 30.16 M (MSL), AT 6.00 HOURS, ON OCT 8, 1978
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 32878 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	150.0	202.8	51.0	74.0	793.0	932.0	1350.0	544.4	323.0	198.4	146.0	170.0	
2	150.0	194.0	41.1	82.0	785.4	888.0	1360.0	501.2	325.7	172.4	142.0	173.0	
3	150.0	197.3	42.0	110.0	783.5	823.4	1380.0	474.0	293.6	159.2	154.0	200.5	
4	167.6	198.4	52.8	138.0	787.3	800.6	1395.0	435.0	292.8	144.0	190.7	236.8	
5	163.0	190.7	61.0	186.3	733.9	775.9	1410.0	408.0	287.2	132.4	205.4	252.8	
6	178.6	217.1	74.0	349.1	679.5	712.4	1415.0	412.0	267.2	137.2	190.0	258.4	
7	192.9	219.3	57.3	470.8	645.0	658.5	1425.0	410.0	250.4	177.4	165.2	249.6	
8	205.0	213.8	38.4	481.6	590.2	631.5	1430.0	393.0	236.8	212.4	148.5	240.8	
9	205.0	187.4	19.2	469.6	533.2	612.0	1430.0	372.0	215.9	220.8	155.0	250.4	
10	198.4	152.2	36.6	488.8	491.2	613.5	1420.0	378.0	194.9	210.3	174.2	261.6	
11	199.5	138.0	136.0	560.8	516.4	622.5	1400.0	397.0	232.8	198.4	192.1	270.4	
12	190.7	155.5	225.9	660.0	560.8	595.8	1395.0	402.0	265.6	220.8	203.3	280.0	
13	188.5	166.5	244.6	791.1	584.8	547.6	1400.0	378.0	265.6	216.6	197.7	285.6	
14	185.2	143.0	230.3	900.0	631.5	539.2	1395.0	353.0	241.6	206.1	176.0	280.8	
15	164.3	121.0	213.8	912.0	866.0	631.5	1375.0	335.6	236.8	208.9	161.0	264.8	
16	147.0	108.0	239.1	928.0	1187.8	730.5	1360.0	317.6	252.0	201.9	168.2	278.4	
17	130.0	108.0	236.9	987.4	1259.8	768.6	1334.0	300.5	252.8	185.8	194.2	290.4	
18	120.0	100.0	199.5	1029.2	1253.0	752.6	1122.4	292.0	220.8	165.2	232.8	291.2	
19	130.0	87.0	163.2	1009.4	1242.8	744.1	1042.0	285.6	197.0	167.0	249.6	288.0	
20	138.0	74.0	152.2	967.6	1236.0	775.9	997.0	291.2	180.9	177.4	240.0	288.8	
21	141.0	75.0	137.0	922.0	1224.0	898.0	939.2	303.2	183.7	171.8	221.5	284.0	
22	175.3	81.0	116.0	876.0	1203.4	996.2	883.4	302.3	208.2	167.0	199.8	272.8	
23	194.0	76.0	113.0	812.0	1151.6	1094.5	834.0	293.6	227.1	161.6	215.2	273.6	
24	205.0	67.0	127.0	796.8	1080.7	1270.0	759.8	296.0	238.4	152.5	242.4	279.2	
25	206.1	51.9	143.0	844.3	1016.0	1350.0	693.6	318.5	234.4	147.0	201.2	280.0	
26	205.0	35.7	157.7	864.0	965.4	1370.0	640.8	327.5	235.2	152.5	210.3	280.0	
27	213.8	37.5	176.4	840.5	932.0	1375.0	621.2	325.7	221.5	173.0	197.0	280.8	
28	224.8	71.0	158.8	806.3	916.0	1375.0	626.8	319.4	192.1	179.5	191.4	272.8	
29	231.4	100.0	118.0	785.4	961.0	1375.0	629.6	313.1	194.9	176.7		268.8	
30	214.9	97.0	87.0	759.6	938.0	1365.0	619.8	304.1	196.3	166.4		276.0	
31		74.0		766.8	894.0		586.4		222.9	155.0		278.4	
TOTAL	5385.0	3940.1	3848.8	20669.4	27443.2	26624.8	34670.0	10783.5	7388.1	5515.6	5364.7	8158.7	159791.7 CMSDAY
MEAN	179.5	127.1	128.3	666.8	885.3	887.5	1118.4	359.4	238.3	177.9	191.6	263.2	437.8 CMS
MAX	231.4	219.3	244.6	1029.2	1259.8	1375.0	1430.0	544.4	325.7	220.8	249.6	291.2	1430.0 CMS
MIN	120.0	35.7	19.2	74.0	491.2	539.2	586.4	285.6	180.9	132.4	142.0	170.0	19.2 CMS
RUNOFF	465.26	340.42	332.54	1785.83	2371.09	2300.38	2995.48	931.69	638.33	476.55	463.51	704.91	13806.00 MCM

MOMENTARY PEAK 1430.00 CMS, AT 30.16 M (MSL), AT 6.00 HOURS, ON OCT 8, 1978

RUNOFF YIELD 13.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 43.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 1971 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.

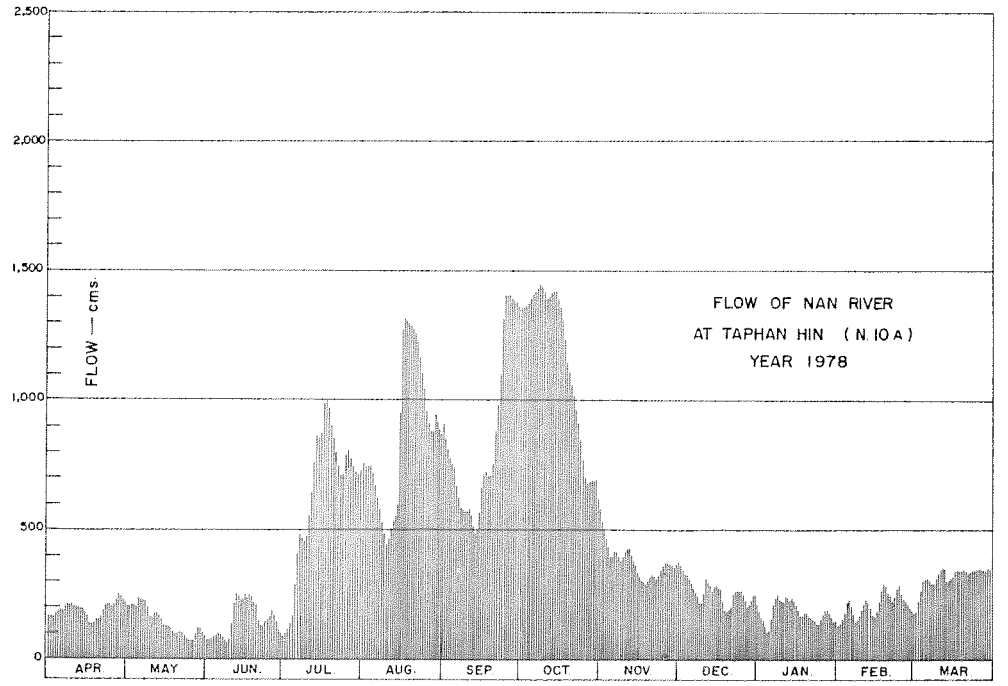
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 72 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.59	25.03	23.58	23.76	29.26	30.14	32.02	28.04	26.51	25.01	24.25	24.68	
2	24.59	24.98	23.51	23.92	29.16	29.82	32.05	27.65	26.39	24.69	24.28	24.95	
3	24.60	25.04	23.54	24.20	29.21	29.45	32.07	27.28	26.10	24.46	24.64	25.40	
4	24.79	25.03	23.68	24.46	29.19	29.32	32.11	26.84	26.15	24.15	25.16	25.84	
5	24.87	24.97	23.84	25.05	28.77	29.14	32.21	26.62	26.04	23.93	25.25	25.97	
6	24.85	25.27	23.82	26.67	28.39	28.66	32.29	26.81	25.81	24.29	24.96	26.03	
7	25.00	25.20	23.63	27.40	28.12	28.32	32.33	26.89	25.58	25.03	24.55	25.89	
8	25.08	25.16	23.43	27.27	27.75	28.12	32.38	26.65	25.46	25.40	24.35	25.78	
9	25.05	24.86	23.34	27.12	27.28	28.00	32.35	26.49	25.17	25.45	24.61	25.94	
10	25.01	24.57	23.73	27.27	27.02	28.04	32.26	26.67	25.15	25.23	24.91	26.09	
11	25.04	24.49	24.82	27.79	27.34	28.09	32.18	26.92	25.66	25.19	25.16	26.20	
12	24.92	24.71	25.39	28.55	27.68	27.84	32.23	26.98	25.96	25.38	25.26	26.29	
13	24.92	24.72	25.44	29.47	27.88	27.41	32.28	26.69	25.87	25.29	25.11	26.32	
14	24.86	24.45	25.25	29.93	28.20	27.50	32.26	26.43	25.55	25.25	24.77	25.88	
15	24.67	24.27	25.16	29.86	30.10	28.37	32.21	26.25	25.61	25.31	24.56	25.93	
16	24.50	24.18	25.42	30.00	31.74	28.99	32.13	26.04	25.80	25.17	24.82	26.15	
17	24.33	24.20	25.28	30.49	31.90	29.15	31.99	25.91	25.67	24.88	25.30	26.27	
18	24.30	24.07	24.90	30.59	31.84	29.01	31.63	25.84	25.26	24.59	25.79	26.26	
19	24.44	23.95	24.64	30.37	31.79	28.97	31.25	25.82	24.95	24.76	25.86	26.25	
20	24.46	23.83	24.57	30.05	31.75	29.21	31.04	25.96	24.80	24.85	25.71	26.29	
21	24.58	23.89	24.40	29.73	31.67	30.06	30.77	26.12	24.95	24.73	25.43	26.20	
22	24.91	23.92	24.21	29.41	31.53	30.51	30.51	26.08	25.31	24.67	25.20	26.13	
23	25.01	23.83	24.23	28.95	31.21	31.00	30.23	25.95	25.54	24.55	25.55	26.20	
24	25.11	23.73	24.41	29.00	30.82	31.92	29.80	26.15	25.61	24.39	25.85	26.27	
25	25.08	23.56	24.51	29.49	30.43	32.22	29.36	26.43	25.56	24.31	25.66	26.26	
26	25.09	23.42	24.68	29.61	30.17	32.23	28.91	26.50	25.56	24.59	25.27	26.29	
27	25.22	23.56	24.81	29.45	29.99	32.19	28.76	26.49	25.32	24.85	25.17	26.32	
28	25.38	23.93	24.52	29.18	30.01	32.17	28.88	26.44	24.91	24.89	25.03	26.23	
29	25.29	24.10	24.10	29.07	30.32	32.14	28.91	26.38	25.14	24.81		26.22	
30	25.15	23.99	23.86	28.98	30.09	32.09	28.83	26.32	25.44	24.61		26.19	
31		23.75		29.15	29.93		28.50		25.44	24.40		26.30	
MEAN	24.86	24.34	24.36	28.27	29.69	29.67	31.12	26.52	25.56	24.81	25.09	26.04	
MAX	25.38	25.27	25.44	30.59	31.90	32.23	32.38	28.04	26.51	25.45	25.86	26.32	32.38
MIN	24.30	23.42	23.34	23.76	27.02	27.41	28.50	25.82	24.80	23.93	24.25	24.68	23.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 32.39 M (MSL), AT 15.00 HOURS, ON OCT 8, 1978
ZERO GAGE AT BOTTOM ELEVATION 22.28 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 30765 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	163.0	207.0	74.6	87.8	750.6	902.6	1345.4	570.2	375.2	205.0	130.5	172.0	
2	163.0	202.0	69.7	100.8	734.6	844.4	1353.5	519.5	360.8	173.0	133.2	199.0	
3	164.0	208.0	71.8	126.0	742.6	781.5	1358.9	471.4	326.0	150.0	168.0	246.0	
4	183.0	207.0	81.6	150.0	739.4	760.2	1369.7	414.8	332.0	121.5	220.0	294.8	
5	191.0	201.0	94.2	209.0	675.5	731.4	1396.7	388.4	318.8	101.7	229.5	310.4	
6	189.0	231.7	92.6	394.4	618.6	659.0	1418.3	411.2	291.2	134.1	200.0	317.6	
7	204.0	224.0	78.1	487.0	580.8	608.8	1429.1	420.8	265.8	207.0	159.0	300.8	
8	212.0	220.0	64.1	470.1	532.5	580.8	1442.6	392.0	252.6	246.0	139.5	287.8	
9	209.0	190.0	57.8	450.6	471.4	565.0	1434.5	372.8	221.0	251.5	165.0	306.8	
10	205.0	161.0	85.4	470.1	437.6	570.2	1410.2	394.4	219.0	227.3	195.0	324.8	
11	208.0	153.0	186.0	537.7	479.2	576.7	1388.6	424.6	274.6	223.0	220.0	338.0	
12	196.0	175.0	244.9	642.5	523.4	544.2	1402.1	432.4	309.2	243.8	230.6	348.8	
13	196.0	176.0	250.4	784.9	549.4	488.3	1415.6	396.8	298.4	233.9	215.0	352.4	
14	190.0	149.0	229.5	863.4	592.0	500.0	1410.2	365.6	262.5	229.5	181.0	299.6	
15	171.0	132.3	220.0	851.2	895.0	615.8	1396.7	344.0	269.1	236.1	160.0	305.6	
16	154.0	124.2	248.2	876.0	1271.4	708.5	1375.1	318.8	290.0	221.0	186.0	332.0	
17	137.7	126.0	232.8	972.9	1313.0	733.0	1337.3	303.2	275.7	192.0	235.0	346.4	
18	135.0	114.3	194.0	994.8	1297.4	711.5	1242.8	294.8	230.6	163.0	288.9	345.2	
19	148.0	103.5	168.0	948.0	1284.4	705.5	1148.0	292.4	199.0	180.0	297.2	344.0	
20	150.0	93.4	161.0	885.5	1274.0	742.6	1097.6	309.2	184.0	189.0	280.1	348.8	
21	162.0	98.2	144.0	829.1	1253.2	887.4	1034.4	328.4	199.0	177.0	249.3	338.0	
22	195.0	100.8	126.9	774.7	1217.5	977.2	977.2	323.6	236.1	171.0	224.0	329.6	
23	205.0	93.4	128.7	702.5	1138.4	1088.0	920.0	308.0	261.4	159.0	262.5	338.0	
24	215.0	85.4	145.0	710.0	1045.6	1318.4	841.0	332.0	269.1	143.1	296.0	346.4	
25	212.0	73.2	155.0	788.3	960.3	1399.4	766.6	365.6	263.6	135.9	274.6	345.2	
26	213.0	63.4	172.0	808.7	908.3	1402.1	696.5	374.0	263.6	163.0	231.7	348.8	
27	226.2	73.2	185.0	781.5	874.2	1391.3	674.0	372.8	237.2	189.0	221.0	352.4	
28	243.8	101.7	156.0	737.8	877.9	1385.9	692.0	366.8	195.0	193.0	207.0	341.6	
29	233.9	117.0	117.0	720.5	938.0	1377.8	696.5	359.6	218.0	185.0		340.4	
30	219.0	107.1	95.8	707.0	893.1	1364.3	684.5	352.4	250.4	165.0		348.8	
31		87.0		733.0	863.4		635.0		250.4	144.0		350.0	
TOTAL	5693.6	4398.8	4330.1	19595.8	26732.7	25921.8	35790.6	11320.5	8199.3	5753.4	5999.6	9900.0	163636.0 CMSDAY
MEAN	189.8	141.9	144.3	632.1	862.3	864.1	1154.5	377.3	264.5	185.6	214.3	319.4	448.3 CMS
MAX	243.8	231.7	250.4	994.8	1313.0	1402.1	1442.6	570.2	375.2	251.5	297.2	352.4	1442.6 CMS
MIN	135.0	63.4	57.8	87.8	437.6	488.3	635.0	292.4	184.0	101.7	130.5	172.0	57.8 CMS
RUNOFF	491.93	380.06	374.12	1693.08	2309.70	2239.64	3092.31	978.09	708.42	497.09	518.37	855.36	14138.15 MCM

MOMENTARY PEAK 1445.30 CMS, AT 32.39 M (MSL), AT 15.00 HOURS, ON OCT 8, 1978

RUNOFF YIELD 14.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 46.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.

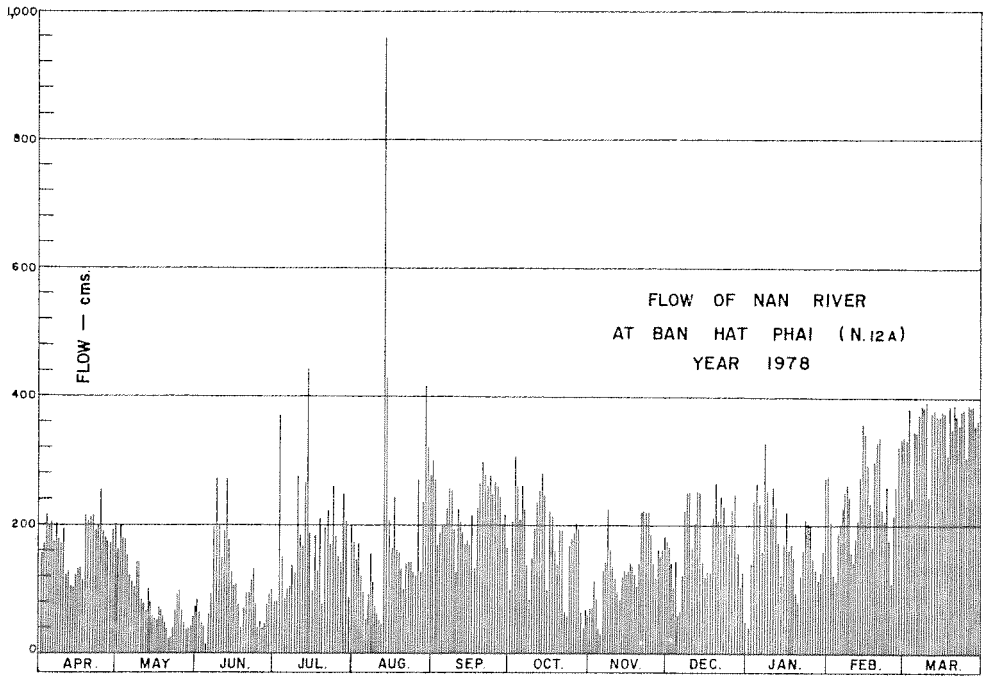
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 171 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	71.62	71.52	70.89	70.84	71.71	72.41	71.03	70.75	71.60	70.37	72.27	72.62	
2	71.46	71.77	70.64	70.81	71.42	72.23	71.74	70.75	71.44	71.10	71.85	72.55	
3	71.90	71.64	70.49	72.80	71.60	71.58	72.44	71.14	71.04	71.79	71.28	72.85	
4	71.76	71.60	69.89	71.54	71.22	71.80	72.09	70.43	71.42	72.24	71.14	72.65	
5	71.81	71.30	70.57	70.84	70.98	71.79	71.86	70.22	70.64	72.04	71.70	72.66	
6	71.61	71.15	70.69	71.05	70.55	71.92	72.19	71.26	70.77	72.00	71.83	72.61	
7	71.81	71.05	71.77	71.05	70.95	72.18	71.60	71.42	71.86	71.51	72.11	72.79	
8	71.60	71.39	72.23	71.30	71.46	72.14	70.86	71.94	72.12	72.56	72.19	72.88	
9	71.58	71.39	72.07	71.10	70.85	71.84	71.40	71.41	72.13	72.08	72.12	72.84	
10	71.75	70.86	71.66	72.24	70.74	71.28	71.61	71.19	71.56	71.86	71.51	72.91	
11	71.20	70.84	71.40	71.91	70.56	71.95	72.00	71.17	71.66	72.17	71.36	72.08	
12	71.26	70.71	72.25	71.58	70.47	71.78	72.11	70.75	72.14	71.98	71.81	72.80	
13	71.02	71.04	71.84	71.71	75.43	71.57	72.31	71.19	72.12	71.63	71.87	72.84	
14	71.07	70.78	71.30	73.19	73.21	71.65	72.16	71.29	71.50	71.22	72.71	72.80	
15	71.27	70.59	71.08	72.32	71.84	71.58	71.03	71.25	71.19	71.62	72.74	72.76	
16	71.34	70.50	71.09	70.93	71.54	71.90	71.93	71.40	71.26	71.93	72.36	72.83	
17	71.14	70.76	70.82	71.67	72.09	71.32	71.88	71.36	71.23	71.53	72.36	72.81	
18	71.92	70.69	70.36	71.27	71.51	71.84	71.55	71.28	71.87	71.59	71.55	72.45	
19	71.81	70.53	70.67	71.86	71.49	72.16	71.35	71.07	71.85	71.40	72.36	72.87	
20	71.85	70.39	70.96	70.81	71.06	72.40	71.74	71.37	72.21	71.01	72.54	72.67	
21	71.88	70.11	70.94	71.81	71.39	72.35	71.73	71.93	71.82	71.18	72.60	72.87	
22	71.74	70.27	71.10	71.95	71.38	72.16	70.68	71.94	72.09	71.41	71.95	72.71	
23	71.80	70.66	71.31	71.58	71.45	72.29	70.58	71.90	71.92	71.87	71.81	72.80	
24	72.15	70.93	70.76	72.18	71.28	72.11	71.56	71.93	70.84	71.80	72.17	72.85	
25	71.79	71.00	70.35	71.70	71.21	72.23	71.69	71.52	71.74	71.78	71.10	72.40	
26	71.67	70.69	70.51	71.48	72.24	72.20	71.81	71.14	71.99	71.43	71.87	72.88	
27	71.61	70.39	70.38	71.40	71.27	72.11	71.82	71.54	72.12	71.33	72.06	72.85	
28	71.58	70.33	70.67	72.11	71.72	71.80	71.07	71.60	71.48	71.16	72.52	72.87	
29	71.72	70.39	70.96	71.89	73.05	71.90	70.30	71.55	71.05	71.25		72.71	
30	71.80	70.50	71.04	70.89	72.54	71.72	70.75	71.65	71.26	71.48		72.76	
31		70.77		71.79	72.27		70.62		70.57	72.26		72.88	
MEAN	71.62	70.86	71.02	71.60	71.63	71.94	71.53	71.31	71.56	71.63	71.99	72.72	
MAX	72.15	71.77	72.25	73.19	75.43	72.41	72.44	71.94	72.21	72.56	72.74	72.91	75.43
MIN	71.02	70.11	69.89	70.81	70.47	71.28	70.30	70.22	70.57	70.37	71.10	72.05	69.89

ANNUAL MAX MOMENTARY GAGE HEIGHT 76.91 M (MSL), AT 12.00 HOURS, ON AUG 13, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	173.0	158.0	84.0	79.0	186.5	299.8	98.3	70.0	170.0	37.9	274.9	337.6	
2	149.8	195.5	59.6	76.0	144.6	268.1	191.0	70.0	147.2	106.0	207.5	325.0	
3	215.0	176.0	47.2	370.0	170.0	167.0	305.2	110.8	99.4	198.5	127.6	379.0	
4	194.0	170.0	9.6	161.0	120.4	200.0	244.4	42.4	144.6	269.8	110.8	238.0	
5	201.5	130.0	53.6	79.0	93.0	198.5	209.0	27.4	59.6	236.4	185.0	344.8	
6	171.5	112.0	64.1	100.5	52.0	218.0	261.3	125.2	72.0	230.0	204.5	335.8	
7	201.5	100.5	195.5	100.5	90.0	259.6	170.0	144.6	209.0	156.5	247.7	368.2	
8	170.0	140.8	268.1	130.0	149.8	252.8	81.0	221.0	249.4	326.8	261.3	384.4	
9	167.0	140.8	241.2	106.0	80.0	206.0	142.0	143.3	251.1	242.8	249.4	377.2	
10	192.5	81.0	179.0	269.8	69.0	127.6	171.5	116.8	164.0	209.0	156.5	389.8	
11	118.0	79.0	142.0	216.5	52.8	222.5	230.0	114.4	179.0	257.9	137.2	242.8	
12	125.2	66.0	271.5	167.0	45.6	197.0	247.7	70.0	252.8	227.0	201.5	370.0	
13	97.2	99.4	206.0	186.5	957.8	165.5	281.8	116.8	249.4	174.5	210.5	377.2	
14	102.7	73.0	130.0	441.1	445.0	177.5	256.2	128.8	155.0	120.4	353.8	370.0	
15	126.4	55.2	103.8	283.6	206.0	167.0	98.3	124.0	116.8	173.0	359.2	362.8	
16	134.8	48.0	104.9	88.0	161.0	215.0	219.5	142.0	125.2	219.5	290.8	375.4	
17	110.8	71.0	77.0	180.5	244.4	132.4	212.0	137.2	121.6	159.5	290.8	371.8	
18	218.0	64.1	37.2	126.4	156.5	206.0	162.5	127.6	210.5	168.5	162.5	307.0	
19	201.5	50.4	62.3	209.0	153.7	256.2	136.0	102.7	207.5	142.0	290.8	382.6	
20	207.5	39.3	91.0	76.0	101.6	298.0	191.0	138.4	264.7	96.1	323.2	346.6	
21	212.0	20.6	89.0	201.5	140.8	289.0	189.5	219.5	203.0	115.6	334.0	382.6	
22	191.0	30.9	106.0	222.5	139.6	256.2	63.2	221.0	244.4	143.3	222.5	353.8	
23	200.0	61.4	131.2	167.0	148.5	278.3	54.4	215.0	218.0	210.5	201.5	370.0	
24	254.5	88.0	71.0	259.6	127.6	247.7	164.0	219.5	79.0	200.0	257.9	379.0	
25	198.5	95.0	36.5	185.0	119.2	268.1	183.5	158.0	191.0	197.0	106.0	298.0	
26	180.5	64.1	48.8	152.4	269.8	263.0	201.5	110.8	228.5	145.9	210.5	384.4	
27	171.5	39.3	38.6	142.0	126.4	247.7	203.0	161.0	249.4	133.6	239.6	379.0	
28	167.0	35.1	62.3	247.7	188.0	200.0	102.7	170.0	152.4	113.2	319.6	382.6	
29	188.0	39.3	91.0	213.5	415.0	215.0	33.0	162.5	100.5	124.0		353.8	
30	200.0	48.0	99.4	84.0	323.2	188.0	70.0	177.5	125.2	152.4		362.8	
31		72.0		198.5	274.9		57.8		53.6	273.2		384.4	
TOTAL	5240.9	2643.7	3201.4	5520.1	5952.7	6687.5	5231.3	4088.2	5293.8	5560.8	6537.1	11016.4	66973.8 CMSDAY
MEAN	174.7	85.3	106.7	178.1	192.0	222.9	168.8	136.3	170.8	179.4	233.5	355.4	183.5 CMS
MAX	254.5	195.5	271.5	441.1	957.8	299.8	305.2	221.0	264.7	326.8	359.2	389.8	957.8 CMS
MIN	97.2	20.6	9.6	76.0	45.6	127.6	33.0	27.4	53.6	37.9	106.0	238.0	9.6 CMS
RUNOFF	452.81	228.42	276.60	476.94	514.31	577.80	451.98	353.22	457.38	480.45	564.80	951.82	5786.54 MCM

MOMENTARY PEAK 1383.00 CMS, AT 76.91 M (MSL), AT 12.00 HOURS, ON AUG 13, 1978

RUNOFF YIELD 11.67 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 87.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

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

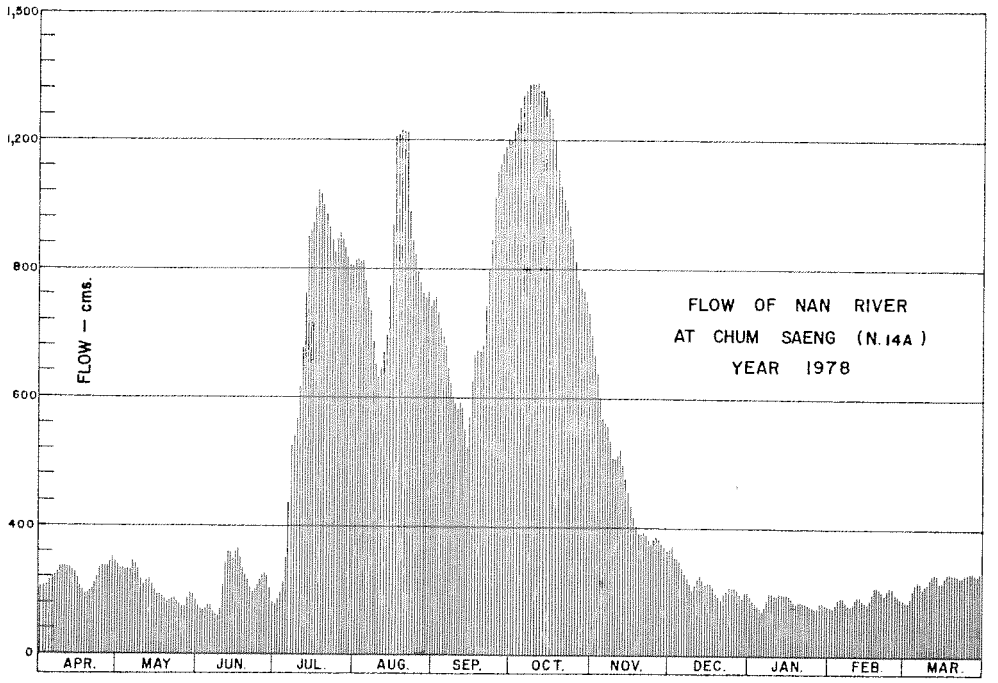
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 34 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	20.70	21.19	20.18	20.26	25.74	26.50	27.70	26.03	23.02	21.47	20.60	21.06	
2	20.70	21.14	20.10	20.31	25.74	26.45	27.72	25.80	23.05	21.14	20.48	20.95	
3	20.71	21.13	20.08	20.50	25.71	26.19	27.73	25.57	22.82	20.91	20.61	21.25	
4	20.83	21.13	20.12	20.72	25.75	26.06	27.75	25.27	22.74	20.66	21.05	21.71	
5	20.99	21.07	20.24	21.03	25.57	25.97	27.77	25.02	22.69	20.41	21.34	21.96	
6	20.99	21.19	20.28	21.98	25.30	25.74	27.78	24.93	22.48	20.37	21.26	22.04	
7	21.04	21.31	20.18	23.03	25.13	25.48	27.79	24.88	22.26	20.87	20.97	22.03	
8	21.15	21.27	19.99	23.31	24.85	25.33	27.79	24.70	22.08	21.39	20.66	21.87	
9	21.20	21.14	19.87	23.43	24.48	25.21	27.79	24.49	21.89	21.58	20.64	21.91	
10	21.16	20.89	19.90	23.71	24.20	25.18	27.79	24.46	21.68	21.52	20.90	22.04	
11	21.17	20.72	20.55	24.15	24.23	25.21	27.79	24.56	21.89	21.34	21.16	22.17	
12	21.15	20.79	21.29	24.74	24.50	25.10	27.78	24.59	22.18	21.54	21.33	22.27	
13	21.11	20.93	21.55	25.50	24.65	24.77	27.78	24.42	22.28	21.59	21.35	22.34	
14	21.07	20.83	21.53	26.02	24.87	24.62	27.77	24.18	22.10	21.49	21.13	22.23	
15	20.93	20.63	21.39	26.13	25.70	25.09	27.75	23.98	21.96	21.47	20.87	22.03	
16	20.78	20.51	21.50	26.21	26.95	25.61	27.74	23.78	22.02	21.46	20.87	22.12	
17	20.62	20.49	21.60	26.45	27.20	25.85	27.72	23.61	22.02	21.28	21.16	22.25	
18	20.53	20.47	21.40	26.60	27.23	25.85	27.67	23.45	21.80	21.00	21.64	22.30	
19	20.55	20.38	21.13	26.56	27.25	25.82	27.59	23.31	21.52	20.89	21.89	22.30	
20	20.64	20.29	21.00	26.44	27.26	25.92	27.51	23.29	21.29	21.03	21.86	22.31	
21	20.65	20.29	20.88	26.32	27.25	26.37	27.43	23.34	21.22	21.01	21.69	22.30	
22	20.81	20.38	20.66	26.18	27.25	26.76	27.33	23.30	21.43	20.93	21.40	22.21	
23	21.06	20.43	20.61	25.95	27.16	26.98	27.25	23.15	21.68	20.87	21.48	22.22	
24	21.17	20.38	20.70	25.83	27.01	27.40	27.11	23.07	21.82	20.74	21.79	22.29	
25	21.21	20.26	20.82	25.99	26.83	27.57	26.94	23.20	21.80	20.60	21.85	22.32	
26	21.19	20.15	20.94	26.09	26.68	27.60	26.73	23.26	21.79	20.58	21.59	22.33	
27	21.24	20.17	21.04	26.02	26.57	27.63	26.59	23.22	21.72	20.87	21.37	22.36	
28	21.38	20.34	21.00	25.89	26.48	27.66	26.56	23.14	21.38	21.03	21.30	22.32	
29	21.41	20.55	20.69	25.77	26.58	27.68	26.54	23.05	21.28	21.04		22.26	
30	21.34	20.59	20.41	25.67	26.54	27.70	26.46	22.95	21.51	20.93		22.32	
31		20.39		25.66	26.39		26.31		21.65	20.76		22.35	
MEAN	20.98	20.69	20.72	24.60	26.03	26.18	27.42	24.07	21.97	21.06	21.22	22.08	
MAX	21.41	21.31	21.60	26.60	27.26	27.70	27.79	26.03	23.05	21.59	21.89	22.36	27.79
MIN	20.53	20.15	19.87	20.26	24.20	24.62	26.31	22.95	21.22	20.37	20.48	20.95	19.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 27.79 M (MSL), AT 12.00 HOURS, ON OCT 8, 1978
ZERO GAGE AT BOTTOM ELEVATION 19.00 M (MSL), RIVER BED 17.92 M (MSL)
LEFT BANK ELEVATION 27.64 M (MSL)
RIGHT BANK ELEVATION 28.01 M (MSL), DRAINAGE AREA 33182 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	157.0	204.0	112.4	118.8	920.6	835.0	1200.0	742.7	247.2	138.8	111.0	123.8	
2	157.0	199.0	106.0	122.8	920.6	825.0	1228.0	699.0	250.5	126.2	108.6	120.5	
3	157.9	198.0	104.4	139.0	914.9	773.1	1242.0	655.3	227.0	119.3	111.2	130.0	
4	168.7	198.0	107.6	158.8	922.5	748.4	1270.0	599.6	219.6	112.2	123.5	150.5	
5	184.0	192.0	117.2	189.0	888.6	731.3	1298.0	554.6	215.1	107.2	133.6	163.6	
6	184.0	204.0	120.4	292.6	840.0	687.6	1312.0	538.4	197.6	106.4	130.4	168.4	
7	189.0	216.1	112.4	448.8	809.4	638.2	1326.0	529.4	182.2	118.1	121.1	167.8	
8	200.0	212.0	97.3	493.7	759.0	610.4	1326.0	497.0	170.8	135.6	112.2	158.5	
9	205.0	199.0	88.9	514.1	692.6	588.8	1326.0	459.3	159.5	144.0	111.8	160.6	
10	201.0	174.1	91.0	561.7	645.0	583.4	1326.0	454.2	149.0	141.0	119.0	168.4	
11	202.0	158.8	143.5	636.5	650.1	588.8	1326.0	471.8	159.5	133.6	126.8	176.2	
12	200.0	165.1	214.0	739.2	696.0	569.0	1312.0	477.2	176.8	142.0	133.2	182.9	
13	196.0	178.0	242.5	876.0	723.0	509.6	1312.0	447.4	183.6	144.5	134.0	187.8	
14	192.0	168.7	240.3	973.8	762.6	482.6	1298.0	407.8	172.0	139.6	125.9	180.1	
15	178.0	150.7	224.9	994.7	913.0	567.2	1270.0	375.8	163.6	138.8	118.1	167.8	
16	164.2	139.9	237.0	1009.9	1155.0	662.9	1256.0	344.0	167.2	138.4	118.1	173.2	
17	149.8	138.1	248.0	1055.5	1207.0	708.5	1228.0	319.4	167.2	131.2	126.8	181.5	
18	141.7	136.3	226.0	1085.0	1213.3	708.5	1179.0	297.5	155.0	122.0	147.0	185.0	
19	143.5	128.4	198.0	1077.0	1217.5	702.8	1125.7	280.2	141.0	118.7	159.5	185.0	
20	151.6	121.2	185.0	1053.6	1219.6	721.8	1091.3	277.8	131.6	122.9	158.0	185.7	
21	152.5	121.2	173.2	1030.8	1217.5	809.0	1062.5	283.8	128.8	122.3	149.5	185.0	
22	166.9	128.4	153.4	1004.2	1217.5	890.2	1031.0	279.0	137.2	119.9	136.0	178.7	
23	191.0	132.7	148.9	960.5	986.0	941.2	1009.0	261.5	149.0	118.1	139.2	179.4	
24	202.0	128.4	157.0	937.7	948.5	1052.0	973.5	252.7	156.0	114.2	154.5	184.3	
25	206.0	118.8	167.8	968.1	905.9	1117.1	931.6	267.0	155.0	111.0	157.5	186.4	
26	204.0	110.0	179.0	987.1	872.8	1130.0	883.6	274.2	154.5	110.6	144.5	187.1	
27	209.0	111.6	169.0	973.8	849.7	1151.0	853.9	269.4	151.0	118.1	134.8	189.2	
28	223.8	125.2	185.0	949.1	831.0	1172.0	847.6	260.4	135.2	122.9	132.0	186.4	
29	227.1	143.5	156.1	926.3	851.8	1186.0	843.4	250.5	131.2	123.7		182.2	
30	219.4	147.1	130.9	907.3	843.4	1200.0	827.0	240.0	140.5	119.9		186.4	
31		129.2		905.4	813.0		797.0		147.5	114.8		188.5	
TOTAL	5524.1	4877.5	4857.1	23089.8	28407.4	23891.4	35312.1	12066.9	5221.9	3875.5	3677.8	5350.9	150152.2 CMSDAY
MEAN	184.1	157.3	161.9	744.8	916.4	796.4	1139.1	402.2	168.4	125.0	131.3	172.6	427.8 CMS
MAX	227.1	216.1	248.0	1085.0	1219.6	1200.0	1326.0	742.7	250.5	144.5	159.5	189.2	1326.0 CMS
MIN	141.7	110.0	88.9	118.8	645.0	482.6	797.0	240.0	128.8	106.4	108.6	120.5	98.9 CMS
RUNOFF	477.28	421.42	419.65	1994.96	2454.40	2064.22	3050.96	1042.58	451.17	334.84	317.76	462.32	13491.54 MCM

MOMENTARY PEAK 1326.00 CMS, AT 27.79 M (MSL), AT 12.00 HOURS, ON OCT 8, 1978

RUNOFF YIELD 12.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 39.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 1963 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969-1973

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

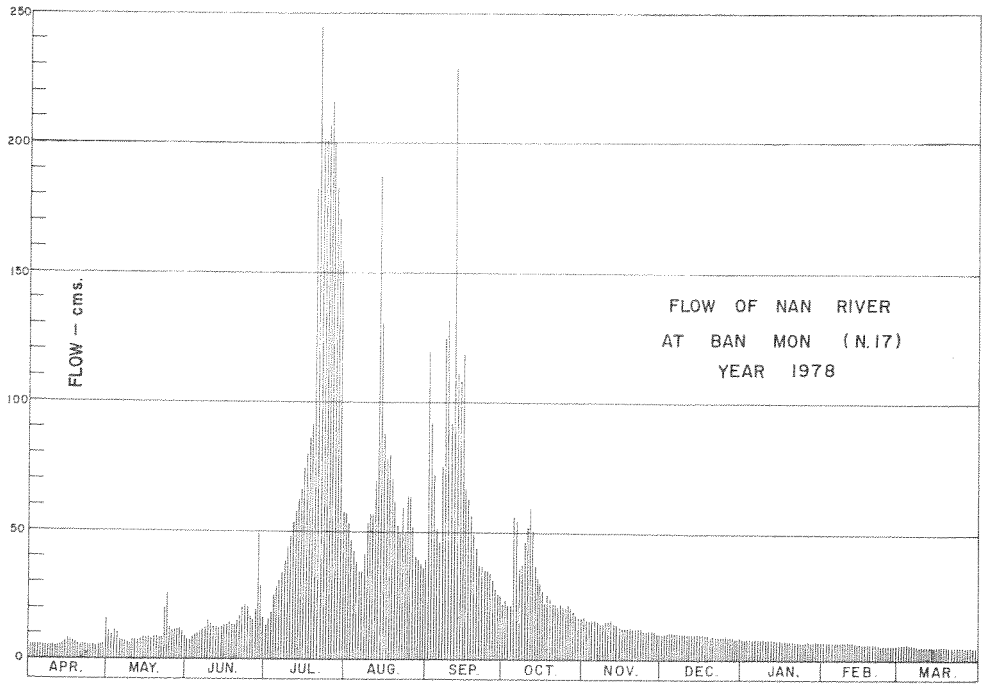
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.48	0.76	0.59	0.76	1.64	1.44	1.04	0.86	0.65	0.59	0.55	0.49	
2	0.48	0.65	0.63	0.82	1.58	2.40	1.02	0.84	0.67	0.60	0.54	0.50	
3	0.48	0.64	0.63	0.91	1.50	1.96	0.97	0.84	0.67	0.59	0.54	0.50	
4	0.47	0.71	0.66	1.07	1.42	1.77	1.00	0.82	0.67	0.60	0.54	0.49	
5	0.48	0.65	0.68	1.14	1.36	1.59	1.63	0.83	0.66	0.59	0.54	0.49	
6	0.47	0.57	0.71	1.14	1.28	1.47	1.58	0.82	0.66	0.59	0.55	0.48	
7	0.47	0.56	0.74	1.26	1.27	1.90	1.29	0.81	0.66	0.60	0.54	0.48	
8	0.48	0.53	0.76	1.34	1.38	2.43	1.34	0.81	0.66	0.59	0.54	0.47	
9	0.47	0.52	0.82	1.42	1.58	2.52	1.48	0.81	0.66	0.59	0.54	0.47	
10	0.48	0.51	0.78	1.50	1.68	2.10	1.56	0.82	0.66	0.59	0.54	0.47	
11	0.48	0.58	0.72	1.55	1.61	2.10	1.69	0.82	0.65	0.58	0.54	0.46	
12	0.48	0.56	0.75	1.62	1.73	3.39	1.54	0.80	0.65	0.58	0.54	0.46	
13	0.50	0.57	0.72	1.70	2.17	2.32	1.33	0.78	0.65	0.57	0.53	0.46	
14	0.54	0.58	0.72	1.77	2.96	2.28	1.23	0.77	0.65	0.57	0.53	0.46	
15	0.58	0.61	0.77	1.82	2.41	2.39	1.17	0.75	0.64	0.58	0.52	0.46	
16	0.59	0.63	0.77	1.93	1.96	1.81	1.10	0.73	0.64	0.57	0.52	0.46	
17	0.56	0.62	0.79	1.98	1.92	1.75	1.02	0.74	0.64	0.56	0.51	0.46	
18	0.53	0.61	0.77	2.05	1.96	1.63	1.07	0.74	0.64	0.56	0.51	0.46	
19	0.52	0.63	0.77	2.10	1.78	1.53	1.03	0.73	0.65	0.56	0.51	0.46	
20	0.51	0.62	0.81	2.94	1.67	1.44	0.99	0.72	0.64	0.56	0.50	0.45	
21	0.50	0.61	0.91	3.51	1.57	1.37	0.99	0.72	0.64	0.56	0.50	0.45	
22	0.49	0.60	0.98	3.30	1.52	1.26	0.97	0.72	0.63	0.56	0.50	0.45	
23	0.49	0.95	0.99	3.16	1.69	1.30	0.99	0.72	0.63	0.55	0.49	0.45	
24	0.48	1.09	0.96	3.15	1.52	1.28	0.97	0.71	0.63	0.55	0.49	0.45	
25	0.48	0.78	0.86	3.18	1.75	1.27	0.97	0.71	0.63	0.55	0.49	0.45	
26	0.47	0.69	0.83	3.28	1.75	1.24	0.98	0.70	0.62	0.56	0.49	0.45	
27	0.50	0.71	0.97	3.16	1.51	1.18	0.95	0.70	0.62	0.55	0.49	0.45	
28	0.49	0.72	1.54	3.03	1.39	1.10	0.91	0.70	0.61	0.55	0.48	0.44	
29	0.50	0.72	1.18	2.94	1.36	1.08	0.88	0.68	0.61	0.55		0.45	
30	0.86	0.70	0.86	2.74	1.31	0.99	0.87	0.67	0.61	0.55		0.44	
31		0.61		1.67	1.29		0.87		0.60	0.55		0.44	
MEAN	0.51	0.65	0.82	2.06	1.66	1.74	1.14	0.76	0.64	0.57	0.52	0.46	
MAX	0.86	1.09	1.54	3.51	2.96	3.39	1.69	0.86	0.67	0.60	0.55	0.50	3.51
MIN	0.47	0.51	0.59	0.76	1.27	0.99	0.87	0.67	0.60	0.55	0.48	0.44	0.44

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.10 M (A.D), AT 6.00 HOURS, ON SEP 12, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.00	12.80	7.75	12.80	55.60	42.90	23.30	16.10	9.50	7.75	6.75	5.25	
2	5.00	9.50	8.90	14.70	51.70	119.00	22.40	15.40	10.10	8.00	6.50	5.50	
3	5.00	9.20	8.90	17.90	46.50	79.30	20.30	15.40	10.10	7.75	6.50	5.50	
4	4.75	11.30	9.80	24.65	41.70	64.40	21.50	14.70	10.10	8.00	6.50	5.25	
5	5.00	9.50	10.40	27.80	38.50	52.35	54.95	15.05	9.80	7.75	6.50	5.25	
6	4.75	7.25	11.30	27.80	34.50	44.70	51.70	14.70	9.80	7.75	6.75	5.00	
7	4.75	7.00	12.20	33.50	34.00	74.50	35.00	14.35	9.80	8.00	6.50	5.00	
8	5.00	6.25	12.80	37.50	39.50	122.00	37.50	14.35	9.80	7.75	6.50	4.75	
9	4.75	6.00	14.70	41.70	51.70	131.00	45.30	14.35	9.80	7.75	6.50	4.75	
10	5.00	5.75	13.40	46.50	58.20	91.00	50.40	14.70	9.80	7.75	6.50	4.75	
11	5.00	7.50	11.60	49.75	53.65	91.00	58.85	14.70	9.50	7.50	6.50	4.50	
12	5.00	7.00	12.50	54.30	61.60	228.80	49.10	14.00	9.50	7.50	6.50	4.50	
13	5.50	7.25	11.60	59.50	97.30	111.00	37.00	13.40	9.50	7.25	6.25	4.50	
14	6.50	7.50	11.60	64.40	178.60	107.20	32.00	13.10	9.50	7.25	6.25	4.50	
15	7.50	8.30	13.10	68.10	120.00	118.00	29.15	12.50	9.20	7.50	6.00	4.50	
16	7.75	8.90	13.10	76.90	79.30	67.30	26.00	11.90	9.20	7.25	6.00	4.50	
17	7.00	8.60	13.70	80.90	76.10	63.00	22.40	12.20	9.20	7.00	5.75	4.50	
18	6.25	8.30	13.10	86.75	79.30	54.95	24.65	12.20	9.20	7.00	5.75	4.50	
19	6.00	8.90	13.10	91.00	65.10	48.45	22.85	11.90	9.50	7.00	5.75	4.50	
20	5.75	8.60	14.35	176.40	57.55	42.90	21.10	11.60	9.20	7.00	5.50	4.25	
21	5.50	8.30	17.90	244.90	51.05	39.00	21.10	11.60	9.20	7.00	5.50	4.25	
22	5.25	8.00	20.70	218.00	47.80	34.50	20.30	11.60	8.90	7.00	5.50	4.25	
23	5.25	19.50	21.10	201.20	58.85	35.50	21.10	11.60	8.90	6.75	5.25	4.25	
24	5.00	25.55	19.90	200.00	47.80	34.50	20.30	11.30	8.90	6.75	5.25	4.25	
25	5.00	13.40	16.10	203.60	63.00	34.00	20.30	11.30	8.90	6.75	5.25	4.25	
26	4.75	10.70	15.05	215.60	63.00	32.50	20.70	11.00	8.60	7.00	5.25	4.25	
27	5.50	11.30	20.30	201.20	47.15	29.60	19.50	11.00	8.60	6.75	5.25	4.25	
28	5.25	11.60	49.10	186.30	40.00	26.00	17.90	11.00	8.30	6.75	5.00	4.00	
29	5.50	11.60	29.60	176.40	38.50	25.10	16.80	10.40	8.30	6.75		4.25	
30	16.10	11.00	16.10	154.40	36.00	21.10	16.45	10.10	8.30	6.75		4.00	
31		8.30		57.55	35.00		16.45		8.00	6.75		4.00	
TOTAL	174.35	304.65	463.75	3152.00	1848.55	2065.55	896.35	387.50	287.00	225.50	168.00	141.75	10114.94 CMSDAY
MEAN	5.81	9.83	15.46	101.68	59.63	68.85	28.91	12.92	9.26	7.27	6.00	4.57	27.71 CMS
MAX	16.10	25.55	49.10	244.90	178.60	228.80	58.85	16.10	10.10	8.00	6.75	5.50	244.90 CMS
MIN	4.75	5.75	7.75	12.80	34.00	21.10	16.45	10.10	8.00	6.75	5.00	4.00	4.00 CMS
RUNOFF	15.064	26.322	40.068	272.333	159.715	178.463	77.445	33.480	24.797	19.483	14.515	12.247	873.931 MCM

MOMENTARY PEAK 336.00 CMS, AT 4.10 M (A.D), AT 6.00 HOURS, ON SEP 12, 1978

RUNOFF YIELD 23.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 290.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-M.S.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +51.143 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 — FAIRLY 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 FAIR. STAGE-DISCHARGE RELATION DEFINED BY 1,322 DISCHARGE MEASUREMENTS MADE DURING 1967-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

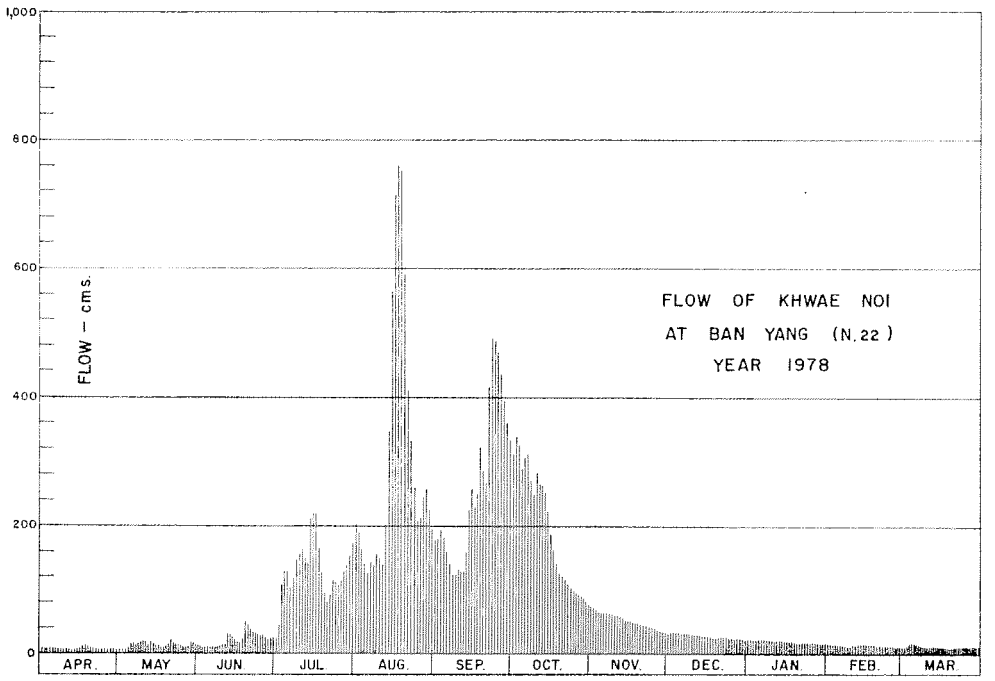
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	43.96	43.93	44.23	44.41	47.43	47.26	48.80	45.57	44.71	44.43	44.21	44.11	
2	43.95	43.92	44.18	44.51	47.57	47.24	48.72	45.53	44.69	44.41	44.21	44.10	
3	43.94	43.91	44.12	45.09	47.35	47.47	49.05	45.49	44.68	44.39	44.21	44.15	
4	43.92	43.92	44.08	46.14	46.98	47.42	48.88	45.44	44.66	44.38	44.21	44.25	
5	43.92	44.01	44.05	46.53	46.75	47.23	48.53	45.39	44.65	44.37	44.20	44.26	
6	43.92	44.27	44.03	46.53	46.46	46.97	48.70	45.36	44.64	44.36	44.18	44.21	
7	43.92	44.29	44.04	46.13	46.55	46.63	48.78	45.36	44.63	44.36	44.17	44.17	
8	43.91	44.18	44.04	46.03	46.72	46.41	48.46	45.35	44.61	44.36	44.17	44.13	
9	43.91	44.31	44.05	46.47	46.65	46.40	48.19	45.33	44.60	44.35	44.17	44.13	
10	43.90	44.31	44.08	46.86	46.92	46.58	48.05	45.31	44.60	44.34	44.18	44.11	
11	43.90	44.35	44.16	46.95	46.85	46.52	48.47	45.28	44.59	44.33	44.17	44.09	
12	43.90	44.21	44.22	47.02	46.66	46.41	48.29	45.24	44.58	44.33	44.17	44.08	
13	43.93	44.20	44.63	46.83	46.98	46.79	48.27	45.21	44.56	44.33	44.18	44.07	
14	43.94	44.27	44.57	46.69	48.85	47.69	48.12	45.17	44.55	44.33	44.21	44.06	
15	43.94	44.20	44.45	47.65	50.31	48.33	47.81	45.14	44.54	44.32	44.21	44.05	
16	44.01	44.12	44.33	47.75	51.02	48.10	47.41	45.11	44.52	44.31	44.20	44.05	
17	44.05	44.08	44.28	47.76	51.39	47.89	47.03	45.09	44.51	44.31	44.19	44.05	
18	44.05	44.08	44.32	47.45	51.54	48.24	46.77	45.06	44.50	44.29	44.17	44.05	
19	44.02	44.11	44.69	46.71	51.50	48.86	46.58	45.04	44.49	44.28	44.16	44.05	
20	43.98	44.17	45.13	46.18	51.10	48.46	46.44	45.00	44.49	44.28	44.15	44.05	
21	43.96	44.30	45.01	45.72	50.40	48.28	46.34	44.96	44.49	44.28	44.14	44.05	
22	43.95	44.41	44.75	45.70	49.53	49.28	46.25	44.93	44.48	44.27	44.14	44.05	
23	43.94	44.22	44.67	46.03	48.84	50.23	46.16	44.90	44.47	44.27	44.13	44.05	
24	43.93	44.12	44.72	46.29	48.28	50.20	46.08	44.87	44.47	44.26	44.12	44.04	
25	43.93	44.07	44.59	46.26	47.82	50.21	45.99	44.83	44.46	44.25	44.12	44.04	
26	43.97	44.05	44.72	46.14	47.64	50.04	45.92	44.80	44.46	44.24	44.11	44.03	
27	43.96	44.03	44.56	46.31	47.82	49.75	45.91	44.78	44.45	44.24	44.11	44.03	
28	43.95	44.06	44.39	46.52	48.11	49.43	45.87	44.76	44.45	44.23	44.11	44.03	
29	43.95	44.11	44.38	46.66	48.17	49.25	45.79	44.74	44.44	44.23		44.02	
30	43.93	44.29	44.55	46.85	47.85	49.12	45.71	44.73	44.44	44.23		44.01	
31		44.26		46.99	47.50		45.64		44.43	44.23		44.01	
MEAN	43.95	44.15	44.40	46.42	48.31	48.09	47.32	45.13	44.54	44.31	44.17	44.08	
MAX	44.05	44.41	45.13	47.76	51.54	50.23	49.05	45.57	44.71	44.43	44.21	44.26	51.54
MIN	43.90	43.91	44.03	44.41	46.46	46.40	45.64	44.73	44.43	44.23	44.11	44.01	43.90

ANNUAL MAX MOMENTARY GAGE HEIGHT — 51.59 M (MSL), AT 1.00 HOURS, ON AUG 19, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.00	8.25	16.55	22.85	191.40	178.20	312.00	73.50	34.40	23.55	15.85	12.80	
2	8.75	8.00	14.90	26.40	202.60	176.80	304.00	71.50	33.60	22.85	15.85	12.50	
3	8.50	7.75	13.10	49.60	185.00	194.60	339.50	69.50	33.20	22.15	15.85	14.00	
4	8.00	8.00	12.00	106.40	158.70	190.60	320.80	67.00	32.40	21.80	15.85	17.25	
5	8.00	10.25	11.25	129.80	143.75	176.10	285.70	64.50	32.00	21.45	15.50	17.60	
6	8.00	17.95	10.75	129.80	125.60	158.05	302.00	63.00	31.60	21.10	14.90	15.85	
7	8.00	18.65	11.00	105.80	131.00	135.95	310.00	63.00	31.20	21.10	14.60	14.60	
8	7.75	14.90	11.00	99.80	141.80	122.60	279.40	62.50	30.40	21.10	14.60	13.40	
9	7.75	19.35	11.25	126.20	137.25	122.00	255.10	61.50	30.00	20.75	14.60	13.40	
10	7.50	19.35	12.00	150.90	154.80	132.80	242.50	60.50	30.00	20.40	14.90	12.80	
11	7.50	20.75	14.30	156.75	150.25	129.20	280.30	59.00	29.60	20.05	14.60	12.25	
12	7.50	15.85	16.20	161.40	137.90	122.60	264.10	57.00	29.20	20.05	14.60	12.00	
13	8.25	15.50	31.20	148.95	158.70	146.35	262.30	55.50	28.40	20.05	14.90	11.75	
14	8.50	17.95	28.80	139.85	317.50	212.20	248.80	53.50	28.00	20.05	15.85	11.50	
15	8.50	15.50	24.25	209.00	501.50	267.70	221.80	52.00	27.60	19.70	15.85	11.25	
16	10.25	13.10	20.05	217.00	632.60	247.00	189.80	50.50	26.80	19.35	15.50	11.25	
17	11.25	12.00	18.30	217.80	720.50	228.20	162.10	49.60	26.40	19.35	15.20	11.25	
18	11.25	12.00	19.70	193.00	758.40	259.60	145.05	48.40	26.00	18.65	14.60	11.25	
19	10.50	12.80	33.60	141.15	748.00	318.60	132.80	47.60	25.65	18.30	14.30	11.25	
20	9.50	14.60	51.50	108.80	651.00	279.40	124.40	46.00	25.65	18.30	14.00	11.25	
21	9.00	19.00	46.40	81.60	515.00	263.20	118.40	44.40	25.65	18.30	13.70	11.25	
22	8.75	22.85	36.00	80.50	394.60	364.80	113.00	43.20	25.30	17.95	13.70	11.25	
23	8.50	16.20	32.80	99.80	316.40	489.50	107.60	42.00	24.95	17.95	13.40	11.25	
24	8.25	13.10	34.80	115.40	263.20	485.00	102.80	40.80	24.95	17.60	13.10	11.00	
25	8.25	11.75	29.60	113.60	222.60	486.50	97.40	39.20	24.60	17.25	13.10	11.00	
26	9.25	11.25	34.80	106.40	208.20	461.60	93.20	38.00	24.60	16.90	12.80	10.75	
27	9.00	10.75	28.40	116.60	222.60	422.50	92.60	37.20	24.25	16.90	12.80	10.75	
28	8.75	11.50	22.15	129.20	247.90	382.60	90.20	36.40	24.25	16.55	12.80	10.75	
29	8.75	12.80	21.80	137.90	253.30	361.50	85.45	35.60	23.90	16.55		10.50	
30	8.25	18.65	28.00	150.25	225.00	347.20	81.05	35.20	23.90	16.55		10.25	
31		17.60		159.35	197.00		77.20		23.55	16.55		10.25	
TOTAL	261.00	447.95	696.45	3931.85	9414.04	7862.95	6041.34	1567.60	862.00	599.15	407.30	378.20	32469.81 CMSDAY
MEAN	8.70	14.45	23.21	126.83	303.68	262.10	194.88	52.25	27.81	19.33	14.55	12.20	88.96 CMS
MAX	11.25	22.85	51.50	217.80	758.40	489.50	339.50	73.50	34.40	23.55	15.85	17.60	758.40 CMS
MIN	7.50	7.75	10.75	22.85	125.60	122.00	77.20	35.20	23.55	16.55	12.80	10.25	7.50 CMS
RUNOFF	22.550	38.703	60.173	339.711	813.373	679.358	521.972	135.441	74.477	51.766	35.191	32.676	2805.391 MCM

MOMENTARY PEAK 771.40 CMS, AT 51.59 M (MSL), AT 1.00 HOURS, ON AUG 19, 1978

RUNOFF YIELD 18.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 159.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAN RIVER BASIN

NAN RIVER AT BAN PHRA FANG, UTTARADIT (N.23)

LOCATION — LAT. 17°-38'-16" N., LONG. 100°-14'-02" E., ON RIGHT BANK ABOUT 1 KILOMETER UPSTREAM FROM BAT PHRA FANG AND ABOUT 1.5 KILOMETERS FROM PHRA FANG-NGUI NGARM ROAD, AMPHOE MUANG, UTTARADIT.

DRAINAGE AREA — 16,336 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +56.452 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — ABOUT 9 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +69.923 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1963 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1964-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1964-1973

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 799 DISCHARGE MEASUREMENTS MADE DURING 1964-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

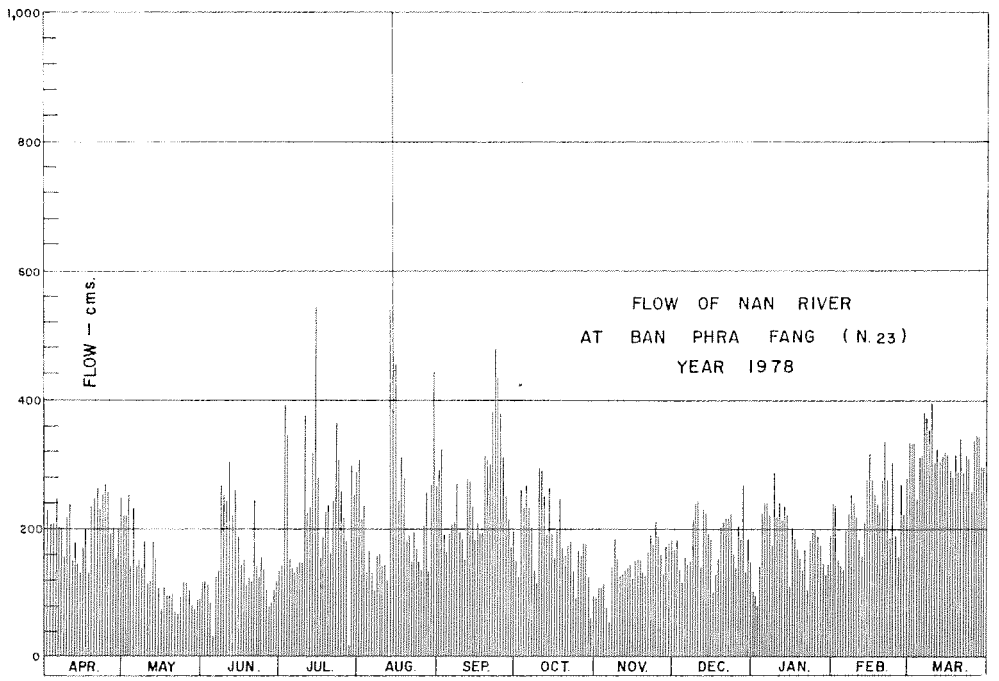
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	58.96	58.90	58.21	58.39	58.43	59.35	58.40	57.98	58.59	58.02	59.03	59.55	
2	58.81	58.91	58.19	58.43	58.90	59.52	58.28	58.11	58.67	57.88	58.89	59.54	
3	58.82	59.09	58.12	59.87	59.02	58.73	59.16	58.12	58.45	58.20	58.49	59.57	
4	58.84	58.39	57.86	59.46	58.31	58.55	58.99	58.15	58.17	58.92	58.41	59.06	
5	59.06	58.98	57.36	58.49	58.57	58.74	59.20	57.80	58.48	59.04	58.34	59.44	
6	58.79	58.40	58.27	58.30	58.37	58.83	59.90	57.60	57.79	59.03	58.74	59.46	
7	58.79	58.47	58.35	58.37	58.07	58.86	58.84	58.29	58.39	58.91	58.92	59.80	
8	58.50	58.36	59.19	58.45	58.53	59.22	58.38	58.69	58.80	58.64	59.09	59.75	
9	58.91	58.69	59.08	58.45	58.54	58.77	58.17	58.45	59.04	59.30	59.02	59.67	
10	59.02	58.33	59.04	59.37	58.43	58.66	59.36	58.24	59.07	58.89	58.81	59.88	
11	58.45	58.15	59.40	59.79	58.44	58.47	59.30	58.28	58.38	59.04	58.67	59.38	
12	58.65	58.31	58.91	58.93	58.20	59.26	58.97	58.30	59.00	58.87	58.51	59.50	
13	58.43	58.66	59.19	59.03	61.99	59.22	58.73	58.35	58.93	59.01	58.66	59.39	
14	58.31	58.27	58.90	59.35	62.49	59.00	59.17	58.40	58.78	58.91	59.23	59.43	
15	58.60	58.04	58.58	60.59	59.88	58.67	58.59	58.24	58.69	58.11	59.48	59.48	
16	58.78	57.83	58.42	58.97	59.06	58.83	58.49	58.44	58.05	58.79	59.22	59.42	
17	58.32	58.14	58.46	58.51	59.45	58.75	58.87	58.48	58.25	58.65	59.10	59.32	
18	59.01	58.00	58.13	58.77	59.24	58.77	59.07	58.46	58.33	58.57	59.04	59.26	
19	58.96	58.00	58.25	58.96	58.66	59.45	58.62	58.30	58.80	58.45	58.93	59.45	
20	59.09	58.06	58.15	59.02	58.72	59.40	58.52	58.27	58.83	58.32	59.24	59.31	
21	59.16	57.79	59.07	58.55	58.44	59.37	58.63	58.57	58.89	58.56	59.58	59.60	
22	59.00	57.74	58.42	59.39	58.74	59.91	58.67	58.73	58.89	58.07	59.16	59.29	
23	59.11	57.90	58.27	59.73	58.62	60.31	58.33	58.64	58.94	58.66	58.68	59.46	
24	59.20	58.16	58.50	59.36	58.45	59.97	58.01	58.86	58.58	58.76	59.16	59.40	
25	59.12	58.16	58.11	59.19	58.32	59.71	58.57	58.73	58.38	58.78	58.72	59.12	
26	58.72	58.18	58.08	58.90	58.78	59.42	58.51	58.55	58.80	58.73	58.50	59.59	
27	58.77	58.01	57.86	58.66	59.14	59.05	58.65	58.28	58.68	58.62	59.17	59.62	
28	58.46	57.87	57.97	57.15	58.35	58.88	58.64	58.62	59.19	58.46	58.92	59.61	
29	58.79	57.84	58.14	59.37	59.57	58.63	58.13	58.66	58.33	58.27		59.35	
30	59.08	57.95	58.23	59.10	60.13	58.76	57.69	58.68	58.68	58.43		59.34	
31		57.99		59.32	59.19		58.01		58.09	58.71		59.89	
MEAN	58.82	58.24	58.42	58.97	59.03	59.10	58.67	58.38	58.61	58.63	58.93	59.48	
MAX	59.20	59.09	59.40	60.59	62.49	60.31	59.90	58.86	59.19	59.30	59.58	59.89	62.49
MIN	58.31	57.74	57.36	57.15	58.07	58.47	57.69	57.60	57.79	57.88	58.34	59.06	57.15

ANNUAL MAX MOMENTARY GAGE HEIGHT — 64.10 M (MSL), AT 18.00 HOURS, ON AUG 13, 1978

ZERO GAGE AT BOTTOM ELEVATION — 56.45 M (MSL), RIVER BED — 55.33 M (MSL)

LEFT BANK ELEVATION — 69.83 M (MSL)

RIGHT BANK ELEVATION — 69.23 M (MSL), DRAINAGE AREA — 16336 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	226.60	217.00	118.20	139.80	307.40	293.00	141.00	90.60	167.50	95.40	238.10	329.00	
2	202.60	218.60	115.80	144.90	217.00	323.60	126.60	106.20	180.20	78.80	215.40	327.20	
3	204.20	248.30	107.40	390.00	236.40	189.80	260.20	107.40	147.50	117.00	152.70	332.60	
4	207.40	139.80	76.60	312.80	130.20	161.50	231.40	111.00	113.40	220.20	142.30	243.20	
5	243.20	229.80	30.20	152.70	164.50	191.40	267.00	70.00	151.40	239.80	133.80	309.20	
6	199.40	141.00	125.40	129.00	137.40	205.80	396.00	51.00	69.00	238.10	191.40	312.80	
7	199.40	150.10	135.00	137.40	101.40	210.60	207.40	127.80	139.80	218.60	220.20	376.00	
8	154.00	136.20	265.30	147.50	158.50	270.40	138.60	183.40	201.00	175.40	248.30	366.00	
9	218.60	183.40	246.60	147.50	160.00	196.20	113.40	147.50	239.80	284.00	236.40	350.60	
10	236.40	132.60	239.80	296.60	144.90	178.60	294.80	121.80	244.90	215.40	202.60	392.00	
11	147.50	111.00	302.00	374.00	146.20	150.10	284.00	126.60	138.60	239.80	180.20	298.40	
12	177.00	130.20	218.60	221.80	117.00	277.20	228.20	129.00	233.00	212.20	155.50	320.00	
13	144.90	178.60	265.30	238.10	918.80	270.40	189.80	135.00	221.80	234.70	210.60	300.20	
14	130.20	125.40	217.00	293.00	1078.80	233.00	261.90	141.00	197.80	218.60	272.10	307.40	
15	169.00	97.80	166.00	541.60	392.00	180.20	167.50	121.80	183.40	106.20	316.40	316.40	
16	197.80	73.30	143.60	228.20	243.20	205.80	152.70	146.20	99.00	199.40	270.40	305.60	
17	131.40	109.80	148.80	155.50	311.00	193.00	212.20	151.40	123.00	177.00	250.00	287.60	
18	234.70	93.00	108.60	196.20	273.80	196.20	244.90	148.80	132.60	164.50	239.80	277.20	
19	226.60	93.00	123.00	226.60	178.60	311.00	172.20	129.00	201.00	147.50	221.80	312.80	
20	248.30	100.20	111.00	236.40	188.20	302.00	157.00	125.40	205.80	131.40	273.80	285.80	
21	260.20	69.00	244.90	161.50	146.20	296.60	173.80	164.50	215.40	163.00	334.40	338.00	
22	233.00	64.00	143.60	300.20	191.40	398.00	180.20	189.80	215.40	101.40	260.20	282.30	
23	251.70	81.00	125.40	362.00	172.20	478.00	132.60	175.40	223.40	178.60	181.80	312.80	
24	267.00	112.20	154.00	294.80	147.50	410.00	94.20	210.60	166.00	194.60	260.20	302.00	
25	253.40	112.20	106.20	265.30	131.40	358.00	164.50	189.80	138.60	197.80	188.20	253.40	
26	188.20	114.60	102.60	217.00	197.80	305.60	155.50	161.50	201.00	189.80	154.00	336.20	
27	196.20	94.20	76.60	178.60	256.80	241.50	177.00	126.60	181.80	172.20	261.90	341.60	
28	148.80	77.70	89.40	16.00	135.00	213.80	175.40	172.20	265.30	148.80	220.20	339.80	
29	199.40	74.40	109.80	296.60	332.60	173.80	108.60	178.60	132.60	125.40		293.00	
30	246.60	87.00	120.60	250.00	442.00	194.60	59.10	181.80	181.80	144.90		291.20	
31		91.80		287.60	265.30		94.20		103.80	186.60		394.00	
TOTAL	6143.69	3887.20	4537.30	7339.20	8023.49	7609.70	5761.89	4221.70	5415.60	5517.09	6232.69	9834.29	74523.82 CMSDAY
MEAN	204.79	125.39	151.24	236.75	258.82	253.66	185.87	140.72	174.70	177.97	222.60	317.24	204.17 CMS
MAX	267.00	248.30	302.00	541.60	1078.80	478.00	396.00	210.60	265.30	284.00	334.40	394.00	1078.80 CMS
MIN	130.20	64.00	30.20	16.00	101.40	150.10	59.10	51.00	69.00	78.80	133.80	243.20	16.00 CMS
RUNOFF	530.815	335.854	392.022	634.106	693.230	657.478	497.827	364.755	467.907	476.677	538.505	849.683	6438.857 MCM

MOMENTARY PEAK 1680.00 CMS, AT 64.10 M (MSL), AT 18.00 HOURS, ON AUG 13, 1978

RUNOFF YIELD 12.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 102.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.H.S.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +12.845 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

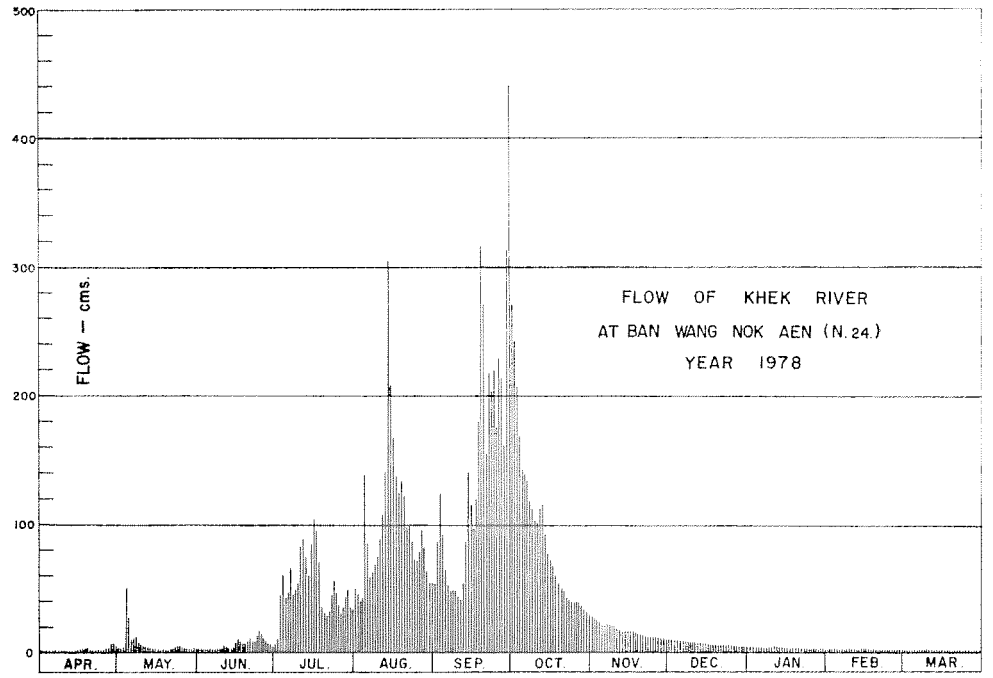
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1,421 DISCHARGE MEASUREMENTS MADE DURING 1966-1974.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.96	0.93	1.18	3.11	3.26	8.11	2.26	1.43	1.06	0.83	0.72	
2	0.58	0.90	0.90	1.45	3.00	4.29	7.84	2.24	1.43	1.05	0.83	0.73	
3	0.58	1.05	0.88	2.85	2.78	5.27	7.31	2.17	1.40	1.04	0.82	0.72	
4	0.57	3.15	0.88	3.46	2.93	4.40	6.47	2.07	1.38	1.03	0.81	0.72	
5	0.56	2.11	0.86	2.82	5.67	3.66	5.82	2.04	1.36	1.02	0.80	0.72	
6	0.56	1.42	0.88	3.02	4.16	3.26	5.66	2.04	1.34	1.02	0.80	0.72	
7	0.56	1.45	0.89	3.59	3.35	3.04	5.48	2.02	1.33	1.01	0.79	0.71	
8	0.56	1.58	0.86	2.94	3.44	3.07	4.99	2.07	1.32	1.01	0.79	0.70	
9	0.56	1.31	0.84	2.91	3.66	3.05	4.90	2.02	1.31	1.01	0.78	0.70	
10	0.60	1.15	0.96	3.22	3.92	2.88	4.69	1.93	1.30	1.02	0.78	0.69	
11	0.66	1.05	1.13	4.05	4.51	2.77	4.66	1.86	1.28	1.04	0.78	0.69	
12	0.66	1.01	1.11	4.30	4.93	3.02	4.93	1.84	1.26	1.05	0.78	0.69	
13	0.66	1.01	1.01	3.89	6.43	3.59	5.04	1.82	1.25	1.03	0.79	0.69	
14	0.64	1.00	0.99	3.44	8.66	5.72	4.40	1.75	1.23	1.00	0.83	0.68	
15	0.63	0.97	1.14	3.95	7.16	5.16	4.00	1.75	1.21	0.98	0.91	0.67	
16	0.63	0.92	1.53	4.77	6.05	4.55	3.79	1.75	1.20	0.97	0.85	0.66	
17	0.74	0.88	1.42	4.47	5.45	4.69	3.63	1.75	1.19	0.96	0.84	0.65	
18	0.92	0.87	1.31	3.47	5.25	6.11	3.48	1.72	1.18	0.95	0.83	0.64	
19	0.84	0.87	1.23	2.82	5.54	8.79	3.29	1.68	1.17	0.94	0.82	0.63	
20	0.80	0.88	1.32	2.51	5.22	7.05	3.13	1.65	1.16	0.93	0.81	0.62	
21	0.78	0.87	1.49	2.36	4.55	6.05	3.05	1.64	1.15	0.92	0.79	0.62	
22	0.78	0.93	1.37	2.38	4.61	7.41	2.87	1.62	1.14	0.91	0.77	0.61	
23	0.80	1.03	1.38	2.74	4.27	7.18	2.80	1.58	1.14	0.90	0.76	0.61	
24	0.79	1.18	1.66	3.39	3.87	7.45	2.76	1.56	1.14	0.89	0.75	0.60	
25	0.78	1.11	1.78	2.92	3.78	6.60	2.73	1.54	1.13	0.88	0.74	0.59	
26	0.87	1.01	1.59	2.63	3.99	7.59	2.75	1.53	1.12	0.87	0.72	0.59	
27	0.98	0.96	1.40	2.43	4.49	7.02	2.69	1.52	1.11	0.86	0.71	0.59	
28	1.20	0.90	1.30	2.67	3.96	5.28	2.57	1.50	1.10	0.85	0.70	0.59	
29	1.26	0.90	1.23	3.10	3.51	8.66	2.46	1.48	1.09	0.85		0.58	
30	1.07	0.93	1.16	2.71	3.30	10.11	2.40	1.45	1.08	0.84		0.57	
31		0.94		2.50	3.26		2.32		1.07	0.83		0.56	
MEAN	0.74	1.14	1.18	3.06	4.48	5.40	4.23	1.79	1.23	0.96	0.79	0.65	
MAX	1.26	3.15	1.78	4.77	8.66	10.11	8.11	2.26	1.43	1.06	0.91	0.73	10.11
MIN	0.56	0.87	0.84	1.18	2.78	2.77	2.32	1.45	1.07	0.83	0.70	0.56	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.36 M (A.D), AT 1.00 HOURS, ON SEP 30, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	3.40	3.10	6.12	50.10	54.60	263.20	27.10	9.91	4.52	2.24	1.44	
2	0.72	2.80	2.80	10.25	46.80	86.26	244.60	26.60	9.91	4.40	2.24	1.51	
3	0.72	4.40	2.64	42.75	40.86	123.99	211.10	24.88	9.40	4.28	2.16	1.44	
4	0.68	51.30	2.64	60.92	44.91	92.00	169.80	22.54	9.08	4.16	2.08	1.44	
5	0.64	23.44	2.64	41.94	136.79	67.32	144.34	21.88	8.76	4.04	2.00	1.44	
6	0.64	9.74	2.64	47.40	83.84	54.60	138.42	21.88	8.44	4.04	2.00	1.44	
7	0.64	10.25	2.72	65.08	57.40	48.00	131.76	21.44	8.28	3.92	1.93	1.37	
8	0.64	12.62	2.48	45.18	60.28	48.90	113.63	22.54	8.12	3.92	1.93	1.30	
9	0.64	7.96	2.32	44.37	67.32	48.30	110.30	21.44	7.96	3.92	1.86	1.30	
10	0.80	5.70	3.40	53.40	75.68	43.56	102.53	19.60	7.80	4.04	1.86	1.25	
11	1.10	4.40	5.42	80.10	95.87	40.59	101.42	18.20	7.52	4.28	1.86	1.25	
12	1.10	3.92	5.14	88.60	111.41	47.40	111.41	17.80	7.24	4.40	1.86	1.25	
13	1.10	3.92	3.92	74.68	169.20	65.08	115.48	17.40	7.10	4.16	1.93	1.25	
14	1.00	3.80	3.70	60.28	204.80	140.64	92.00	16.00	6.82	3.80	2.24	1.20	
15	0.95	3.50	5.56	76.70	202.80	119.92	78.40	16.00	6.54	3.60	2.90	1.15	
16	0.95	3.00	11.67	105.49	153.00	97.35	71.48	16.00	6.40	3.50	2.40	1.10	
17	1.58	2.64	9.74	94.45	130.65	102.53	66.36	16.00	6.26	3.40	2.32	1.05	
18	3.00	2.56	7.96	61.24	123.25	155.40	61.56	15.40	6.12	3.30	2.24	1.00	
19	2.32	2.56	6.82	42.94	133.98	315.20	55.50	14.60	5.98	3.20	2.16	0.95	
20	2.00	2.64	8.12	33.57	122.14	196.75	50.70	14.00	5.84	3.10	2.08	0.90	
21	1.86	2.56	10.93	29.66	97.35	153.00	48.30	13.80	5.70	3.00	1.93	0.90	
22	1.86	3.10	8.92	30.18	99.57	217.10	43.29	13.40	5.56	2.90	1.79	0.85	
23	2.00	4.16	9.08	39.78	87.58	203.90	41.40	12.62	5.56	2.80	1.72	0.85	
24	1.93	6.12	14.20	58.68	74.04	219.50	40.32	12.24	5.56	2.72	1.65	0.80	
25	1.86	5.14	16.60	44.64	71.16	175.50	39.51	11.86	5.42	2.64	1.58	0.76	
26	2.56	3.92	12.81	36.81	78.06	228.35	40.05	11.67	5.28	2.56	1.44	0.76	
27	3.60	3.40	9.40	31.48	95.15	195.10	38.43	11.48	5.14	2.48	1.37	0.76	
28	6.40	2.80	7.80	37.89	77.04	162.20	35.19	11.10	5.00	2.40	1.30	0.76	
29	7.24	2.80	6.82	49.80	62.52	304.80	32.26	10.76	4.88	2.40		0.72	
30	4.64	3.10	5.84	38.97	55.80	440.10	30.70	10.25	4.76	2.32		0.68	
31		3.20		33.30	54.60		28.62		4.64	2.24		0.64	
TOTAL	55.93	204.85	197.83	1565.65	3064.95	4249.94	2852.06	510.48	210.98	106.44	55.07	33.51	13107.67 CMSDAY
MEAN	1.86	6.61	6.59	50.50	98.87	141.66	92.00	17.02	6.81	3.43	1.97	1.08	35.91 CMS
MAX	7.24	51.30	16.60	105.49	304.80	440.10	263.20	27.10	9.91	4.52	2.90	1.51	440.10 CMS
MIN	0.64	2.56	2.32	6.12	40.86	40.59	28.62	10.25	4.64	2.24	1.30	0.64	0.64 CMS
RUNOFF	4.832	17.699	17.092	135.272	264.811	367.195	246.418	44.105	18.229	9.196	4.758	2.895	1132.502 MCM

MOMENTARY PEAK 586.80 CMS, AT 11.35 M (A.D), AT 1.00 HOURS, ON SEP 30, 1978
RUNOFF YIELD 19.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 315.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S. 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 376 DISCHARGE MEASUREMENTS MADE DURING 1969-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

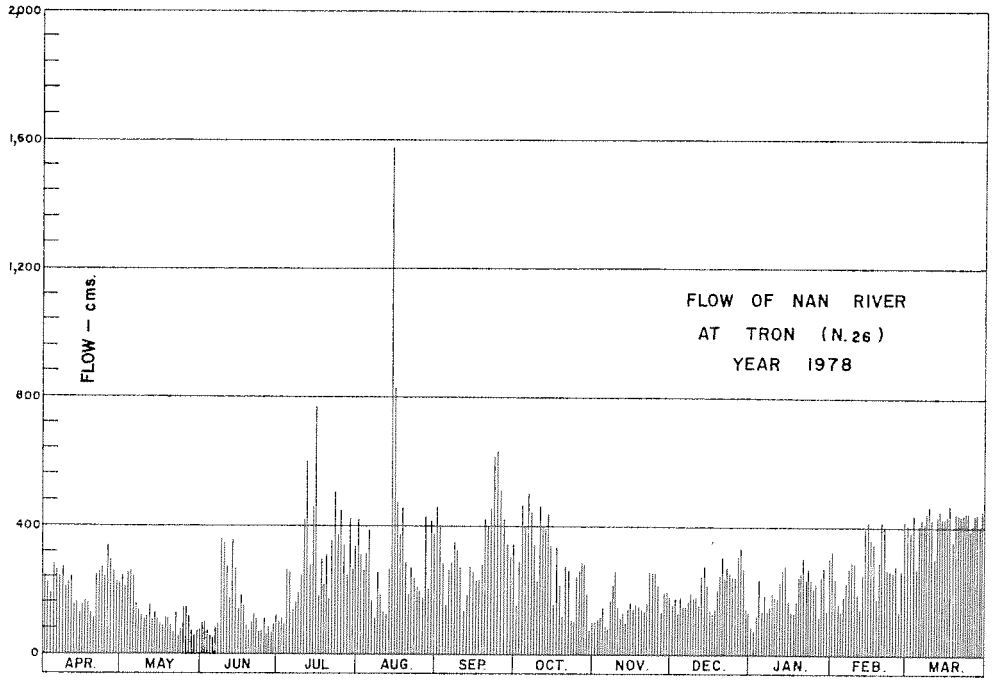
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.75	51.76	50.65	50.66	52.70	52.90	51.81	50.56	51.11	50.43	52.07	52.68	
2	51.62	51.53	50.70	50.73	52.15	52.59	51.13	50.70	51.23	50.36	52.16	52.60	
3	51.36	51.81	50.45	50.59	51.86	52.05	52.12	50.78	51.29	51.08	51.50	52.52	
4	51.98	51.77	50.30	51.55	52.17	51.12	52.93	51.08	51.00	51.93	51.05	52.73	
5	51.86	51.95	50.06	51.82	52.54	51.79	52.60	50.51	51.30	52.02	50.94	51.88	
6	51.82	51.17	50.43	51.02	51.27	51.81	53.17	50.36	51.02	52.04	51.46	52.61	
7	51.65	51.07	50.56	51.16	50.70	52.05	53.02	51.18	51.07	51.86	51.55	52.69	
8	51.95	50.88	51.97	51.23	51.19	52.34	52.76	51.55	51.41	51.14	51.82	52.62	
9	51.53	50.77	52.40	51.62	51.62	52.14	52.14	51.79	51.25	52.65	52.00	52.82	
10	51.67	51.55	52.33	51.74	51.18	51.76	51.69	51.13	51.30	51.82	51.94	52.87	
11	51.71	50.99	51.76	53.27	50.95	50.93	52.85	50.72	51.16	51.65	51.46	52.71	
12	51.11	51.14	51.26	53.55	50.90	51.33	52.59	50.94	51.56	51.98	51.06	52.08	
13	51.18	50.72	52.39	51.89	51.83	51.36	52.57	50.67	51.89	51.82	51.73	52.74	
14	50.96	50.94	51.57	52.24	56.95	51.96	52.77	50.95	51.92	51.30	51.79	52.82	
15	50.91	50.67	51.19	54.29	55.16	51.78	52.50	51.18	51.26	50.93	52.57	52.73	
16	51.18	50.94	51.04	52.37	53.08	51.64	51.13	51.07	50.95	51.67	52.65	52.73	
17	51.20	50.43	51.34	51.36	52.51	51.89	52.25	51.18	50.87	51.62	52.39	52.78	
18	51.16	50.79	50.80	52.05	52.86	51.97	52.11	51.10	51.09	51.24	52.31	52.92	
19	50.77	50.72	50.41	51.58	52.02	52.64	50.80	51.08	51.70	51.37	51.26	52.36	
20	50.75	50.47	50.49	52.24	51.91	52.67	51.38	50.89	51.76	51.29	52.31	52.75	
21	51.78	50.31	50.87	51.29	51.35	52.61	51.92	51.13	52.14	50.96	52.65	52.76	
22	51.82	50.97	50.85	52.80	51.87	52.95	51.85	51.83	51.64	50.95	52.59	52.74	
23	51.95	50.24	50.40	53.14	51.58	53.63	50.72	51.83	51.96	51.36	51.89	52.77	
24	51.75	50.55	50.39	52.44	51.54	53.70	50.58	51.76	51.75	51.78	51.78	52.78	
25	52.29	51.16	50.78	52.83	51.37	53.29	51.70	51.79	51.63	51.48	51.92	52.78	
26	52.07	51.16	50.32	52.49	51.31	53.06	51.84	51.40	51.74	51.57	50.99	52.54	
27	51.85	50.72	50.47	51.88	52.78	52.61	52.00	50.92	52.16	51.07	51.86	52.65	
28	51.74	50.36	50.33	51.71	51.38	52.42	51.97	51.39	52.21	51.64	51.85	52.79	
29	51.63	50.28	50.60	52.71	51.64	52.04	50.93	51.41	51.60	51.93		52.60	
30	51.71	50.33	50.90	51.88	52.67	52.26	50.43	51.39	50.95	51.00		52.76	
31		50.44		52.29	52.46		50.67		50.92	51.25		52.86	
MEAN	51.56	50.91	50.94	52.04	52.13	52.24	51.90	51.14	51.45	51.46	51.84	52.67	
MAX	52.29	51.95	52.40	54.29	56.95	53.70	53.17	51.83	52.21	52.65	52.65	52.92	56.95
MIN	50.75	50.24	50.06	50.59	50.70	50.93	50.43	50.36	50.87	50.36	50.94	51.88	50.06

ANNUAL MAX MOMENTARY GAGE HEIGHT — 57.07 M (MSL), AT 12.00 HOURS, ON AUG 14, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	244.0	245.6	99.0	100.0	416.0	456.0	253.6	90.0	149.4	77.0	296.6	412.0	
2	223.2	208.8	104.0	107.0	311.0	394.0	152.2	104.0	166.2	70.0	312.8	396.0	
3	184.4	253.6	79.0	93.0	261.6	293.0	305.6	112.0	174.6	145.6	204.0	380.0	
4	280.8	247.2	64.0	260.0	314.6	150.8	462.0	145.6	136.0	272.8	142.0	422.0	
5	261.6	276.0	43.6	255.2	384.0	250.4	396.0	85.0	176.0	287.6	128.8	264.8	
6	255.2	157.8	77.0	138.4	171.8	253.6	510.7	70.0	138.4	291.2	198.4	398.0	
7	228.0	144.4	90.0	156.4	104.0	293.0	480.0	159.2	144.4	261.6	212.0	414.0	
8	276.0	122.0	279.2	166.2	160.6	345.2	432.0	212.0	191.4	153.6	255.2	400.0	
9	208.8	111.0	356.0	223.2	255.2	309.2	309.2	250.4	169.0	406.0	284.0	440.0	
10	231.2	212.0	343.4	242.4	199.2	245.6	234.4	152.2	176.0	255.2	274.4	450.0	
11	237.6	134.8	245.6	531.7	130.0	127.6	446.0	106.0	156.4	228.0	198.4	418.0	
12	149.4	153.6	170.4	593.0	124.0	180.2	394.0	128.8	213.6	280.8	143.2	298.4	
13	159.2	106.0	354.2	266.4	256.8	184.4	390.0	101.0	266.4	255.2	240.8	424.0	
14	131.2	128.8	263.2	327.2	1572.5	277.6	430.0	130.0	271.2	176.0	250.4	440.0	
15	125.2	101.0	160.6	762.5	998.8	248.8	376.0	159.2	170.4	127.6	390.0	422.0	
16	159.2	88.0	140.8	450.0	492.0	226.4	152.2	144.4	130.0	231.2	406.0	422.0	
17	162.0	82.0	181.6	184.4	378.0	266.4	329.0	159.2	121.0	223.2	354.2	432.0	
18	156.4	113.0	114.0	293.0	448.0	279.2	303.8	148.0	146.8	167.6	339.8	460.0	
19	111.0	106.0	75.0	216.8	287.6	404.0	114.0	145.6	236.0	185.8	170.4	348.8	
20	109.0	81.0	83.0	327.2	269.6	410.0	187.2	123.0	245.6	174.6	339.8	426.0	
21	240.8	65.0	121.0	174.6	183.0	398.0	271.2	152.2	309.2	131.2	406.0	428.0	
22	255.2	132.4	119.0	436.0	263.2	466.0	260.0	256.8	226.4	130.0	394.0	424.0	
23	276.0	58.0	74.0	504.4	216.8	610.6	106.0	256.8	277.6	184.4	266.4	430.0	
24	244.0	89.0	73.0	364.0	210.4	626.0	92.0	245.6	244.0	248.8	248.8	432.0	
25	336.2	156.4	112.0	442.0	185.8	535.9	236.0	250.4	224.8	201.2	271.2	432.0	
26	296.6	156.4	66.0	374.0	177.4	488.0	258.4	190.0	242.4	215.2	134.8	384.0	
27	260.0	106.0	81.0	264.8	432.0	398.0	284.0	126.4	312.8	144.4	261.6	406.0	
28	242.4	70.0	67.0	237.6	187.2	360.0	279.2	188.6	321.8	226.4	260.0	434.0	
29	224.8	62.0	94.0	418.0	258.4	291.2	127.6	191.4	220.0	272.8		396.0	
30	237.6	67.0	124.0	264.8	410.0	330.8	77.0	188.6	130.0	136.0		428.0	
31		78.0		336.2	368.0		101.0		126.4	169.0		448.0	
TOTAL	6515.0	4112.8	4254.6	9510.4	10387.5	10099.9	8750.3	4772.4	6214.2	6330.0	7384.0	12710.0	91041.0 CMSDAY
MEAN	217.2	132.7	141.8	306.8	335.1	336.7	282.3	159.1	200.5	204.2	263.7	410.0	249.4 CMS
MAX	336.2	276.0	356.0	762.5	1572.5	626.0	510.7	256.8	321.8	406.0	406.0	460.0	1572.5 CMS
MIN	109.0	58.0	43.6	93.0	104.0	127.6	77.0	70.0	121.0	70.0	128.8	264.8	43.6 CMS
RUNOFF	562.90	355.35	367.60	821.70	897.48	872.63	756.03	412.33	536.91	546.91	637.98	1098.14	7865.94 MCM

MOMENTARY PEAK 1614.50 CMS, AT 57.07 M (MSL), AT 12.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 14.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 93.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAN RIVER BASIN

NAN RIVER AT PHROM PHIRAM, PHITSANULOK (N.27)

LOCATION — LAT. 17°-01'-37" N., LONG. 100°-12'-12" E., ON LEFT BANK ABOUT 200 METERS DOWNSTREAM FROM PHROM PHIRAM RAILWAY STATION, AMPHOE PROM PHIRAM, PHITSANULOK.

DRAINAGE AREA — 19,549 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +38.20 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — ABOUT 10 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +48.244 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1974

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

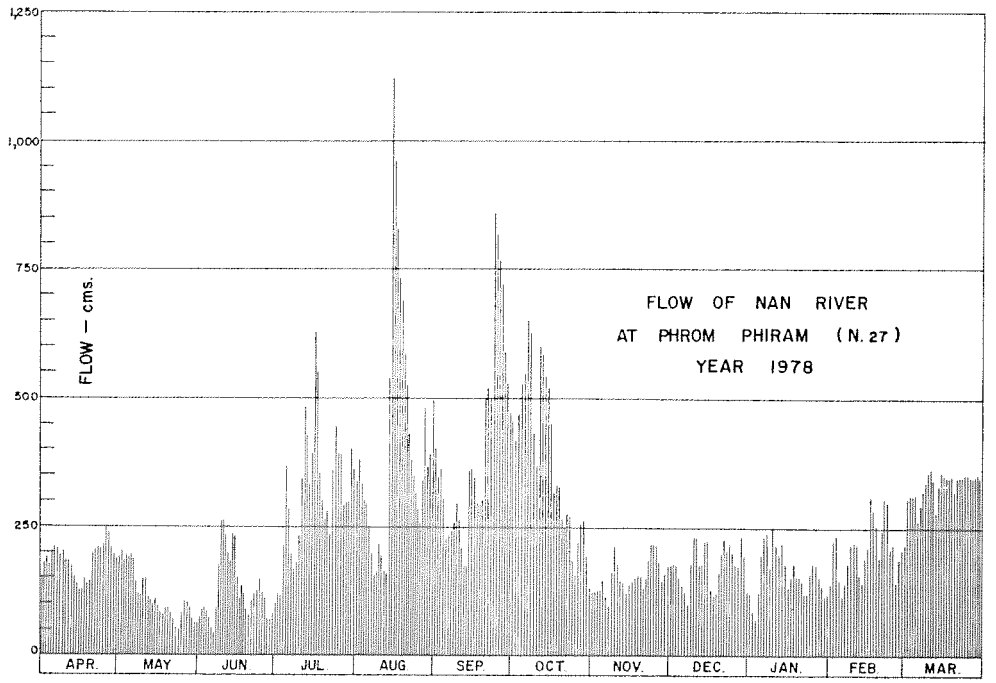
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 376 DISCHARGE MEASUREMENTS MADE DURING 1966-1967, 1969-1970, 1972-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	40.43	40.91	39.41	39.88	42.14	42.64	43.11	40.11	40.63	40.11	40.33	41.14	
2	40.71	40.96	39.60	40.12	42.60	42.21	42.83	40.14	40.71	39.66	41.13	41.82	
3	40.83	40.73	39.78	40.04	42.25	42.38	42.74	40.17	40.69	39.42	41.27	41.91	
4	40.67	40.87	39.70	40.91	41.85	41.94	43.40	40.22	40.51	39.82	40.85	41.91	
5	40.97	40.81	39.49	42.40	41.81	41.17	43.75	40.42	40.17	40.74	40.33	41.93	
6	41.04	40.91	39.23	41.69	41.35	41.26	43.76	40.11	40.29	41.19	40.05	41.48	
7	41.01	40.55	39.08	40.82	40.93	41.33	44.47	39.81	40.01	41.32	40.43	41.84	
8	40.85	40.13	39.65	40.60	40.50	41.48	44.30	40.26	39.78	41.04	40.77	42.01	
9	40.99	40.05	40.71	40.72	40.64	41.84	43.26	40.77	40.68	40.61	41.03	42.09	
10	40.79	40.41	41.51	41.22	41.12	41.66	42.41	41.03	41.19	41.40	41.15	42.27	
11	40.79	40.49	41.48	42.04	40.84	41.19	43.09	40.62	41.26	41.19	41.09	42.34	
12	40.76	40.08	41.14	43.29	40.64	40.66	44.13	40.36	40.68	40.89	40.56	42.12	
13	40.47	39.97	40.77	42.96	40.53	40.74	43.94	40.31	40.69	41.10	40.28	41.63	
14	40.36	39.84	41.28	42.10	44.08	42.32	43.69	40.11	41.10	40.97	40.65	42.08	
15	40.15	39.97	41.16	42.63	47.27	42.38	43.49	40.19	41.12	40.63	40.99	42.28	
16	40.09	39.83	40.54	44.31	46.70	42.20	42.98	40.38	40.58	40.20	41.72	42.24	
17	40.44	39.66	40.01	43.65	45.54	41.83	41.96	40.35	40.18	40.45	41.88	42.18	
18	40.33	39.56	40.29	42.27	44.87	41.78	42.08	40.48	40.02	40.68	41.65	42.23	
19	40.33	39.76	40.03	41.87	44.68	41.85	42.03	40.48	40.13	40.48	41.44	42.24	
20	40.95	39.77	39.61	41.54	44.16	43.29	41.60	40.42	40.67	40.43	40.80	41.96	
21	40.92	39.64	39.56	41.67	43.52	43.55	41.36	40.26	40.90	40.33	41.37	42.17	
22	41.01	39.47	39.95	41.26	42.71	43.41	41.62	40.45	41.17	40.11	41.83	42.21	
23	41.02	39.22	40.09	42.24	42.41	44.63	41.55	41.01	40.95	40.06	41.76	42.21	
24	40.98	39.12	40.21	43.02	42.16	45.78	40.80	41.09	41.10	40.28	41.13	42.20	
25	41.10	39.55	40.41	42.63	41.71	45.56	40.47	41.08	40.95	40.72	40.98	42.27	
26	41.40	39.87	40.04	42.59	41.45	45.14	41.06	41.08	40.69	40.69	41.07	42.22	
27	41.25	40.01	40.01	41.73	42.20	44.78	41.42	40.70	40.63	40.65	40.34	42.14	
28	41.01	39.86	39.43	41.81	43.28	44.11	41.55	40.33	41.01	40.41	40.77	42.26	
29	40.87	39.57	39.40	41.83	42.40	43.63	41.44	40.49	41.20	40.21		42.25	
30	40.79	39.36	39.54	42.67	42.58	43.24	40.77	40.66	40.61	40.05		42.21	
31		39.31		42.45	43.36		40.23		40.15	40.06		42.19	
MEAN	40.78	40.01	40.10	41.90	42.65	42.67	42.43	40.46	40.66	40.51	40.99	42.07	
MAX	41.40	40.96	41.51	44.31	47.27	45.78	44.47	41.09	41.26	41.40	41.88	42.34	47.27
MIN	40.09	39.12	39.08	39.88	40.50	40.66	40.23	39.81	39.78	39.42	40.05	41.14	39.08

ANNUAL MAX MOMENTARY GAGE HEIGHT 47.45 M (MSL), AT 15.00 HOURS, ON AUG 15, 1978
ZERO GAGE AT BOTTOM ELEVATION 38.20 M (MSL), RIVER BED 36.80 M (MSL)
LEFT BANK ELEVATION 48.44 M (MSL)
RIGHT BANK ELEVATION 49.00 M (MSL), DRAINAGE AREA 19549 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	148.0	196.0	65.7	100.4	334.8	395.2	456.3	118.9	168.0	118.9	138.7	219.4	
2	176.0	201.0	79.0	119.8	390.0	343.2	419.9	121.6	176.0	83.2	218.3	296.4	
3	188.0	178.0	92.4	113.2	348.0	363.6	408.2	124.3	174.0	66.4	233.7	307.2	
4	172.0	192.0	86.0	196.0	300.0	310.8	496.0	128.8	156.0	95.6	190.0	307.2	
5	202.0	186.0	71.3	366.0	295.2	222.7	545.0	147.0	124.3	179.0	138.7	309.6	
6	209.0	196.0	53.1	280.8	242.5	232.6	546.4	118.9	135.1	224.9	114.0	256.8	
7	206.0	160.0	43.8	187.0	198.0	240.3	649.5	94.8	110.8	239.2	148.0	298.8	
8	190.0	120.7	82.5	165.0	155.0	256.8	624.0	132.4	92.4	209.0	182.0	319.2	
9	204.0	114.0	176.0	177.0	169.0	298.8	476.4	182.6	173.0	166.0	208.0	328.8	
10	184.0	146.0	260.1	228.2	217.2	277.2	367.2	208.0	224.9	248.0	220.5	350.4	
11	184.0	154.0	256.8	322.8	189.0	224.9	453.7	167.0	232.6	224.9	214.0	358.8	
12	181.0	116.4	219.4	480.6	169.0	171.0	598.5	141.4	173.0	194.0	161.0	332.4	
13	152.0	107.6	182.0	436.8	158.0	179.0	571.6	136.9	174.0	215.0	134.2	273.6	
14	141.4	97.2	234.8	330.0	591.2	356.4	536.6	118.9	215.0	202.0	170.0	327.6	
15	122.5	107.6	221.6	393.9	1120.6	363.6	508.6	126.1	217.2	168.0	204.0	351.6	
16	117.2	96.4	159.0	625.5	1018.0	342.0	439.4	143.2	163.0	127.0	284.4	346.8	
17	149.0	83.2	110.8	531.0	817.4	297.6	313.2	140.5	125.2	150.0	303.6	339.6	
18	138.7	76.2	135.1	350.4	710.2	291.6	327.6	153.0	111.6	173.0	276.0	345.6	
19	138.7	90.8	112.4	302.4	681.0	300.0	321.6	153.0	120.7	153.0	252.4	346.8	
20	200.0	91.6	79.7	263.4	603.0	480.6	270.0	147.0	172.0	148.0	185.0	313.2	
21	197.0	81.8	76.2	278.4	512.8	517.0	243.6	132.4	195.0	138.7	244.7	338.4	
22	206.0	69.9	106.0	222.6	404.3	497.4	272.4	150.0	222.7	118.9	297.6	343.2	
23	207.0	52.4	117.2	346.8	367.2	673.5	264.5	206.0	200.0	114.8	289.2	343.2	
24	203.0	46.2	127.9	444.6	337.2	856.6	185.0	214.0	215.0	134.2	218.3	342.0	
25	215.0	75.5	146.0	393.9	283.2	820.6	152.0	213.0	200.0	177.0	203.0	350.4	
26	248.0	99.6	113.2	388.8	253.5	753.4	211.0	213.0	174.0	174.0	212.0	344.4	
27	231.5	110.8	110.8	285.6	342.0	696.0	250.2	175.0	168.0	170.0	139.6	334.8	
28	206.0	98.8	67.1	295.2	479.2	595.5	264.5	138.7	206.0	146.0	182.0	349.2	
29	192.0	76.9	65.0	292.6	366.0	528.2	252.4	154.0	226.0	127.9		348.0	
30	184.0	62.2	74.8	399.1	387.6	473.6	182.0	171.0	166.0	114.0		343.2	
31		58.7		372.0	490.4		129.7		122.5	114.8		340.8	
TOTAL	5493.0	3543.5	3725.7	9704.8	12930.5	12359.7	11737.0	4570.8	5334.0	4915.4	5762.9	10107.4	90184.6 CMSDAY
MEAN	183.1	114.3	124.2	313.1	417.1	412.0	378.6	152.4	172.1	158.6	205.8	326.0	247.1 CMS
MAX	248.0	201.0	260.1	625.5	1120.6	856.6	649.5	214.0	232.6	248.0	303.6	358.8	1120.6 CMS
MIN	117.2	46.2	43.8	100.4	155.0	171.0	129.7	94.8	92.4	66.4	114.0	219.4	43.8 CMS
RUNOFF	474.60	306.16	321.90	838.49	1117.19	1067.88	1014.08	394.92	460.86	424.69	497.91	873.28	7791.95 MCM

MOMENTARY PEAK 1153.00 CMS, AT 47.45 M (MSL), AT 15.00 HOURS, ON AUG 15, 1978

RUNOFF YIELD 12.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 58.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAN RIVER BASIN

KHLONG TRON AT BAN NAM LAI, UTTARADIT (N.28)

LOCATION — LAT. 17°-34'-10" N., LONG. 100°-27'-04" E., ON LEFT BANK AT BAN NAM LAI, AMPHOE NAM PAT, UTTARADIT.

DRAINAGE AREA — 478 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +6.039 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1970

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1970

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

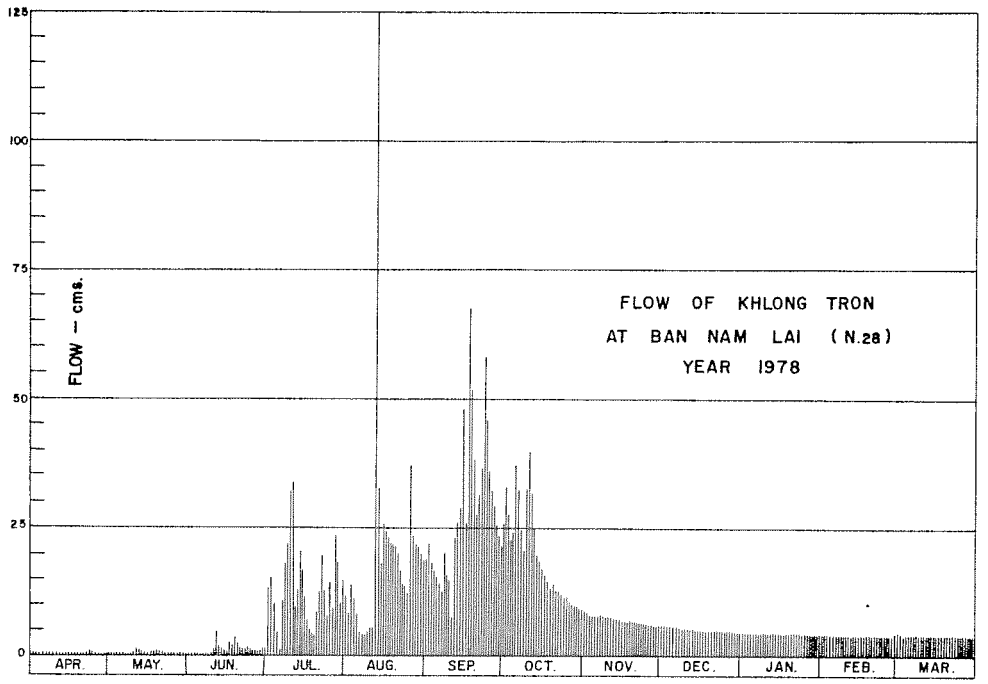
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 545 DISCHARGE MEASUREMENTS MADE DURING 1967-1970.

REMARKS — RECORDS POOR FOR MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.39	0.39	0.47	0.70	1.71	2.12	2.39	1.50	1.27	1.14	1.09	1.13	
2	0.39	0.39	0.46	1.80	1.48	2.23	2.63	1.49	1.26	1.13	1.09	1.10	
3	0.39	0.37	0.44	1.91	1.85	2.07	2.43	1.45	1.26	1.13	1.09	1.08	
4	0.39	0.37	0.44	1.66	1.70	2.01	2.26	1.42	1.25	1.13	1.09	1.08	
5	0.39	0.37	0.43	1.53	1.58	1.92	2.35	1.45	1.24	1.13	1.09	1.08	
6	0.39	0.44	0.43	0.53	1.20	1.87	2.76	1.44	1.23	1.13	1.08	1.08	
7	0.38	0.43	0.45	0.83	1.11	1.74	2.58	1.47	1.23	1.12	1.08	1.08	
8	0.38	0.43	0.53	2.09	1.11	2.17	2.25	1.44	1.22	1.12	1.08	1.07	
9	0.38	0.43	0.49	2.03	1.11	1.96	2.16	1.44	1.21	1.12	1.08	1.07	
10	0.38	0.45	0.59	2.58	1.23	1.86	2.74	1.43	1.21	1.12	1.08	1.07	
11	0.38	0.58	0.81	2.64	1.25	1.42	2.83	1.42	1.20	1.12	1.07	1.07	
12	0.38	0.74	1.18	1.72	2.17	2.23	2.49	1.41	1.20	1.12	1.07	1.07	
13	0.38	0.67	0.87	1.43	4.41	2.41	2.29	1.40	1.19	1.11	1.07	1.07	
14	0.38	0.58	0.71	2.04	2.53	2.50	2.14	1.38	1.19	1.11	1.07	1.07	
15	0.50	0.55	0.67	2.16	2.06	3.06	2.07	1.37	1.18	1.11	1.07	1.07	
16	0.44	0.54	0.63	1.65	2.37	2.52	1.99	1.36	1.18	1.11	1.07	1.06	
17	0.51	0.54	0.93	1.40	2.27	2.39	1.94	1.35	1.18	1.11	1.06	1.06	
18	0.44	0.65	0.83	1.22	2.53	3.49	1.87	1.36	1.17	1.11	1.06	1.06	
19	0.42	0.64	1.06	1.12	2.49	3.03	1.78	1.36	1.17	1.11	1.06	1.06	
20	0.42	0.63	0.88	1.06	2.21	2.64	1.86	1.35	1.17	1.11	1.06	1.06	
21	0.41	0.59	0.77	1.54	2.18	2.46	1.77	1.34	1.16	1.11	1.06	1.06	
22	0.41	0.54	0.71	1.81	2.06	2.63	1.75	1.33	1.16	1.11	1.06	1.06	
23	0.58	0.50	0.70	2.13	1.86	2.81	1.71	1.32	1.16	1.10	1.05	1.06	
24	0.64	0.46	0.78	1.71	1.82	3.29	1.67	1.31	1.16	1.10	1.05	1.06	
25	0.48	0.46	0.69	1.42	1.74	2.99	1.69	1.30	1.15	1.10	1.05	1.05	
26	0.44	0.45	0.64	1.86	2.76	2.64	1.66	1.30	1.15	1.10	1.05	1.05	
27	0.42	0.45	0.62	1.56	2.29	2.54	1.59	1.29	1.15	1.10	1.05	1.05	
28	0.40	0.44	0.59	2.29	2.23	2.39	1.58	1.29	1.15	1.10	1.04	1.05	
29	0.39	0.45	0.65	2.03	2.26	2.32	1.56	1.28	1.14	1.10		1.05	
30	0.38	0.53	0.76	1.61	2.17	2.20	1.55	1.27	1.14	1.10		1.05	
31		0.42		1.88	2.07		1.52		1.14	1.10		1.05	
MEAN	0.42	0.50	0.67	1.68	1.99	2.39	2.06	1.38	1.19	1.11	1.07	1.07	
MAX	0.64	0.74	1.18	2.64	4.41	3.49	2.83	1.50	1.27	1.14	1.09	1.13	4.41
MIN	0.38	0.37	0.43	0.53	1.11	1.42	1.52	1.27	1.14	1.10	1.04	1.05	0.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.80 M (A.D), AT 18.00 HOURS, ON SEP 18, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.09	0.24	1.10	11.66	19.24	25.84	8.60	5.80	4.50	4.01	4.40	
2	0.09	0.09	0.22	13.10	8.34	21.75	32.83	8.47	5.70	4.40	4.01	4.10	
3	0.09	0.07	0.18	15.09	14.00	18.20	26.94	7.95	5.70	4.40	4.01	3.92	
4	0.09	0.07	0.18	10.90	11.50	17.00	22.50	7.56	5.60	4.40	4.01	3.92	
5	0.09	0.07	0.16	9.02	9.72	15.28	24.80	7.95	5.50	4.40	4.01	3.92	
6	0.09	0.18	0.16	0.39	5.10	14.36	37.10	7.82	5.40	4.40	3.92	3.92	
7	0.08	0.16	0.20	1.91	4.20	12.14	31.30	8.21	5.40	4.30	3.92	3.92	
8	0.08	0.16	0.39	16.60	4.20	20.34	22.25	7.82	5.30	4.30	3.92	3.83	
9	0.08	0.16	0.28	17.40	4.20	16.04	20.12	7.82	5.20	4.30	3.92	3.83	
10	0.08	0.20	0.57	31.30	5.40	14.18	36.40	7.69	5.20	4.30	3.92	3.83	
11	0.08	0.54	1.77	33.14	5.60	7.56	39.55	7.56	5.10	4.30	3.83	3.83	
12	0.08	1.34	4.90	11.82	20.34	21.75	28.62	7.43	5.10	4.30	3.83	3.83	
13	0.08	0.95	2.19	7.69	124.70	26.38	23.25	7.30	5.00	4.20	3.83	3.83	
14	0.08	0.54	1.16	17.60	29.80	28.90	19.68	7.06	5.00	4.20	3.83	3.83	
15	0.30	0.45	0.95	20.12	18.00	48.40	18.20	6.94	4.90	4.20	3.83	3.83	
16	0.18	0.42	0.75	10.75	25.32	29.50	16.61	6.82	4.90	4.20	3.83	3.74	
17	0.33	0.42	2.64	7.30	22.75	25.84	15.66	6.70	4.90	4.20	3.74	3.74	
18	0.18	0.85	1.91	5.30	29.80	67.50	14.36	6.82	4.80	4.20	3.74	3.74	
19	0.14	0.80	3.74	4.30	28.62	47.20	12.78	6.82	4.80	4.20	3.74	3.74	
20	0.14	0.75	2.26	3.74	21.25	33.14	14.18	6.70	4.80	4.20	3.74	3.74	
21	0.12	0.57	1.52	9.15	20.56	27.78	12.62	6.58	4.70	4.20	3.74	3.74	
22	0.12	0.42	1.16	13.28	18.00	32.83	12.30	6.46	4.70	4.20	3.74	3.74	
23	0.54	0.30	1.10	19.46	14.18	38.85	11.66	6.34	4.70	4.10	3.65	3.74	
24	0.80	0.22	1.58	11.66	13.46	58.05	11.05	6.22	4.70	4.10	3.65	3.74	
25	0.26	0.22	1.05	7.56	12.14	41.65	11.35	6.10	4.60	4.10	3.65	3.65	
26	0.18	0.20	0.80	14.18	37.10	33.14	10.90	6.10	4.60	4.10	3.65	3.65	
27	0.14	0.20	0.70	9.44	23.25	30.10	9.86	6.00	4.60	4.10	3.65	3.65	
28	0.10	0.18	0.57	23.25	21.75	25.84	9.72	6.00	4.60	4.10	3.56	3.65	
29	0.09	0.20	0.85	17.40	22.50	24.02	9.44	5.90	4.50	4.10		3.65	
30	0.08	0.39	1.46	10.15	20.34	21.00	9.30	5.80	4.50	4.10		3.65	
31		0.26		14.54	18.20		8.88		4.50	4.10		3.65	
TOTAL	4.86	11.47	35.64	390.65	625.98	837.96	600.05	211.54	154.80	131.20	106.88	117.95	3229.00 CMSDAY
MEAN	0.16	0.37	1.19	12.60	20.19	27.93	19.36	7.05	4.99	4.23	3.82	3.80	8.85 CMS
MAX	0.80	1.34	4.90	33.14	124.70	67.50	39.55	8.60	5.80	4.50	4.01	4.40	124.70 CMS
MIN	0.08	0.07	0.16	0.39	4.20	7.56	8.88	5.80	4.50	4.10	3.56	3.65	0.07 CMS
RUNOFF	0.422	0.991	3.079	33.752	54.085	72.400	51.844	18.277	13.375	11.336	9.234	10.191	278.985 MCM

MOMENTARY PEAK 84.50 CMS, AT 3.80 M (A.D), AT 18.00 HOURS, ON SEP 18, 1978

RUNOFF YIELD 18.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 176.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAN RIVER BASIN

KHLONG TRON AT BAN NA KLAM, UTTARADIT (N.28A)

LOCATION . LAT. 17°-35'-00" N., LONG. 100°-29'-30" E., ON LEFT BANK AT BAN NA KLAM BRIDGE ABOUT 7 KILOMETERS UPSTREAM FROM STATION 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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 216 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

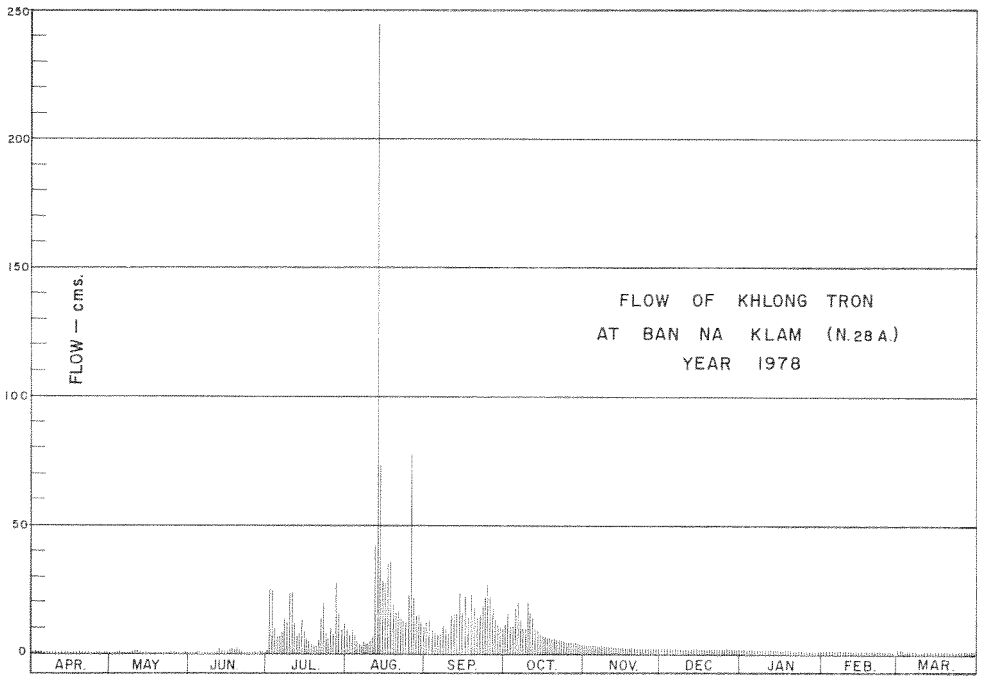
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.28	1.17	1.25	1.47	2.13	2.23	2.17	1.76	1.61	1.55	1.46	1.54	
2	1.23	1.18	1.24	2.64	1.98	2.26	2.36	1.74	1.61	1.55	1.46	1.54	
3	1.17	1.16	1.22	2.60	2.17	2.12	2.23	1.73	1.60	1.54	1.46	1.50	
4	1.17	1.16	1.21	2.15	2.03	2.07	2.16	1.72	1.60	1.54	1.46	1.46	
5	1.16	1.15	1.22	1.95	1.88	2.04	2.38	1.72	1.59	1.54	1.46	1.45	
6	1.14	1.19	1.21	2.02	1.80	2.04	2.48	1.72	1.59	1.54	1.46	1.44	
7	1.15	1.18	1.30	2.10	1.77	2.12	2.27	1.72	1.59	1.54	1.46	1.44	
8	1.14	1.25	1.27	2.30	1.86	2.20	2.15	1.72	1.59	1.54	1.46	1.43	
9	1.16	1.37	1.25	2.22	1.77	2.07	2.10	1.71	1.58	1.54	1.46	1.43	
10	1.14	1.31	1.44	2.60	1.85	2.05	2.49	1.70	1.58	1.53	1.45	1.43	
11	1.15	1.43	1.52	2.59	1.98	2.34	2.37	1.70	1.57	1.53	1.45	1.43	
12	1.16	1.43	1.75	2.07	2.87	2.36	2.30	1.68	1.58	1.52	1.45	1.42	
13	1.14	1.36	1.52	1.90	5.11	2.32	2.13	1.68	1.58	1.51	1.45	1.42	
14	1.15	1.31	1.44	2.16	3.23	2.57	2.10	1.67	1.57	1.50	1.45	1.41	
15	1.26	1.28	1.40	2.27	2.76	2.37	2.04	1.66	1.56	1.50	1.45	1.41	
16	1.28	1.30	1.43	2.05	2.69	2.54	2.00	1.66	1.56	1.50	1.45	1.41	
17	1.24	1.35	1.65	1.91	2.87	2.24	1.98	1.66	1.55	1.50	1.45	1.41	
18	1.21	1.36	1.56	1.80	2.88	2.60	1.95	1.66	1.54	1.50	1.45	1.41	
19	1.19	1.32	1.66	1.73	2.48	2.54	1.95	1.65	1.56	1.50	1.45	1.41	
20	1.18	1.32	1.57	1.71	2.36	2.33	1.97	1.64	1.56	1.49	1.45	1.40	
21	1.21	1.30	1.49	1.88	2.38	2.24	1.91	1.64	1.55	1.49	1.44	1.40	
22	1.19	1.27	1.44	2.21	2.30	2.36	1.88	1.64	1.54	1.48	1.44	1.40	
23	1.26	1.24	1.52	2.47	2.26	2.50	1.86	1.64	1.56	1.48	1.44	1.41	
24	1.25	1.24	1.51	2.12	2.21	2.71	1.85	1.63	1.56	1.48	1.44	1.41	
25	1.21	1.23	1.44	1.96	2.54	2.59	1.85	1.63	1.56	1.48	1.44	1.41	
26	1.20	1.21	1.41	2.16	3.56	2.50	1.84	1.63	1.56	1.47	1.44	1.41	
27	1.20	1.22	1.39	2.04	2.59	2.32	1.82	1.62	1.56	1.47	1.44	1.40	
28	1.18	1.23	1.36	2.69	2.33	2.22	1.82	1.62	1.56	1.47	1.45	1.40	
29	1.17	1.27	1.39	2.32	2.34	2.19	1.80	1.62	1.56	1.46		1.40	
30	1.17	1.29	1.48	2.08	2.21	2.16	1.77	1.61	1.56	1.46		1.40	
31		1.26		2.27	2.17		1.77		1.56	1.46		1.39	
MEAN	1.19	1.27	1.42	2.14	2.43	2.31	2.06	1.67	1.57	1.51	1.45	1.43	
MAX	1.28	1.43	1.75	2.69	5.11	2.71	2.49	1.76	1.61	1.55	1.46	1.54	5.11
MIN	1.14	1.15	1.21	1.47	1.77	2.04	1.77	1.61	1.54	1.46	1.44	1.39	1.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.22 M (A.D), AT 10.00 HOURS, ON AUG 13, 1978

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 368 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.14	0.30	0.88	9.75	12.31	10.75	3.60	2.10	1.50	0.84	1.40	
2	0.26	0.16	0.28	25.52	6.70	13.12	16.06	3.40	2.10	1.50	0.84	1.40	
3	0.14	0.12	0.24	24.00	10.75	9.50	12.31	3.30	2.00	1.40	0.84	1.00	
4	0.14	0.12	0.22	10.25	7.60	8.40	10.50	3.20	2.00	1.40	0.84	0.84	
5	0.12	0.10	0.24	6.25	5.20	7.80	16.68	3.20	1.90	1.40	0.84	0.80	
6	0.08	0.18	0.22	7.40	4.00	7.80	19.86	3.20	1.90	1.40	0.84	0.76	
7	0.10	0.16	0.40	9.00	3.70	9.50	13.39	3.20	1.90	1.40	0.84	0.76	
8	0.08	0.30	0.34	14.20	4.90	11.50	10.25	3.20	1.90	1.40	0.84	0.72	
9	0.12	0.54	0.30	12.04	3.70	8.40	9.00	3.10	1.80	1.40	0.84	0.72	
10	0.08	0.42	0.76	24.00	4.75	8.00	20.18	3.00	1.80	1.30	0.80	0.72	
11	0.10	0.72	1.20	23.65	6.70	15.44	16.37	3.00	1.70	1.30	0.80	0.72	
12	0.12	0.72	3.50	8.40	35.52	16.06	14.20	2.80	1.80	1.20	0.80	0.68	
13	0.08	0.52	1.20	5.50	244.00	14.82	9.75	2.80	1.80	1.10	0.80	0.68	
14	0.10	0.42	0.76	10.50	54.80	22.95	9.00	2.70	1.70	1.00	0.80	0.64	
15	0.32	0.36	0.60	13.39	30.50	16.37	7.80	2.60	1.60	1.00	0.80	0.64	
16	0.36	0.40	0.72	8.00	27.42	21.90	7.00	2.60	1.60	1.00	0.80	0.64	
17	0.28	0.50	2.50	5.65	35.52	12.58	6.70	2.60	1.50	1.00	0.80	0.64	
18	0.22	0.52	1.60	4.00	35.98	24.00	6.25	2.60	1.40	1.00	0.80	0.64	
19	0.18	0.44	2.60	3.30	19.86	21.90	6.25	2.50	1.60	1.00	0.80	0.64	
20	0.16	0.44	1.70	3.10	16.06	15.13	6.55	2.40	1.60	0.96	0.80	0.60	
21	0.22	0.40	0.96	5.20	16.68	12.58	5.65	2.40	1.50	0.96	0.76	0.60	
22	0.18	0.34	0.76	11.77	14.20	16.06	5.20	2.40	1.40	0.92	0.76	0.60	
23	0.32	0.28	1.20	19.54	13.12	20.50	4.90	2.40	1.60	0.92	0.76	0.64	
24	0.30	0.28	1.10	9.50	11.77	28.25	4.75	2.30	1.60	0.92	0.76	0.64	
25	0.22	0.26	0.76	6.40	21.90	23.65	4.75	2.30	1.60	0.92	0.76	0.64	
26	0.20	0.22	0.64	10.50	77.00	20.50	4.60	2.30	1.60	0.88	0.76	0.64	
27	0.20	0.24	0.58	7.80	23.65	14.82	4.30	2.20	1.60	0.88	0.76	0.60	
28	0.16	0.26	0.52	27.42	15.13	12.04	4.30	2.20	1.60	0.88	0.80	0.60	
29	0.14	0.34	0.58	14.82	15.44	11.25	4.00	2.20	1.60	0.84		0.60	
30	0.14	0.38	0.92	8.60	11.77	10.50	3.70	2.10	1.60	0.84		0.60	
31		0.32		13.39	10.75		3.70		1.60	0.84		0.58	
TOTAL	5.48	10.60	27.70	353.97	798.82	447.63	278.70	81.80	53.00	34.46	22.48	22.38	2137.02 CMSDAY
MEAN	0.18	0.34	0.92	11.42	25.77	14.92	8.99	2.73	1.71	1.11	0.80	0.72	5.85 CMS
MAX	0.36	0.72	3.50	27.42	244.00	28.25	20.18	3.60	2.10	1.50	0.84	1.40	244.00 CMS
MIN	0.08	0.10	0.22	0.88	3.70	7.80	3.70	2.10	1.40	0.84	0.76	0.58	0.08 CMS
RUNOFF	0.473	0.916	2.393	30.583	69.018	38.675	24.080	7.068	4.579	2.977	1.942	1.934	184.638 MCM

MOMENTARY PEAK 720.00 CMS, AT 7.22 M (A.D), AT 10.00 HOURS, ON AUG 13, 1978
RUNOFF YIELD 15.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1956.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

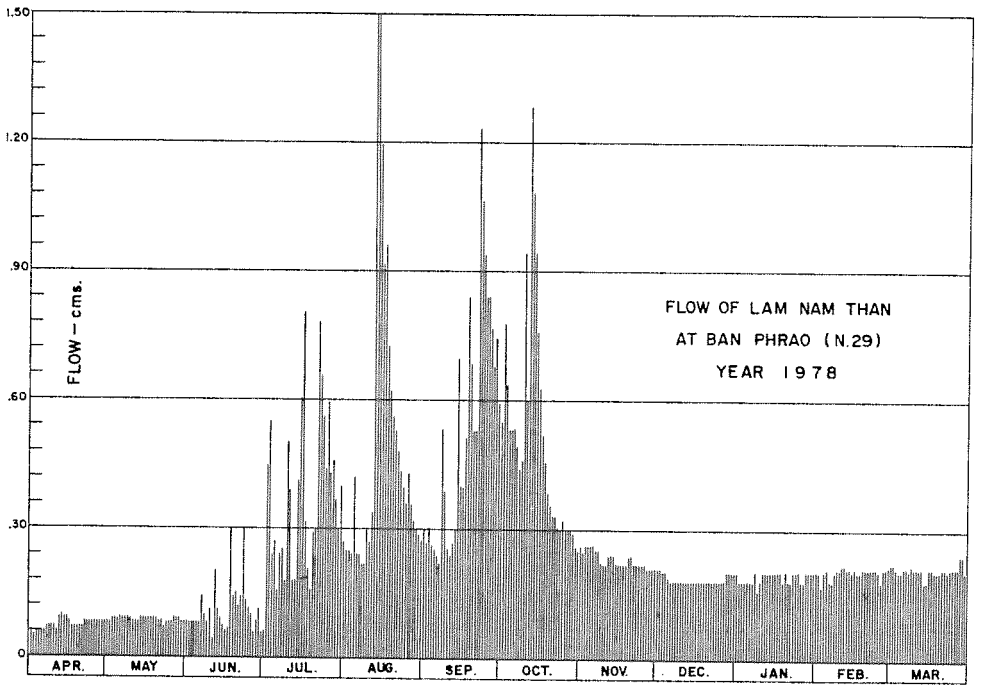
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE DURING 1971-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.48	0.51	0.51	0.49	0.68	0.70	0.85	0.67	0.63	0.62	0.62	0.64	
2	0.47	0.51	0.51	0.79	0.66	0.68	0.97	0.66	0.63	0.61	0.62	0.64	
3	0.48	0.52	0.51	0.85	0.66	0.70	0.86	0.67	0.62	0.61	0.60	0.63	
4	0.48	0.52	0.51	0.65	0.65	0.67	0.84	0.67	0.62	0.61	0.62	0.62	
5	0.48	0.52	0.51	0.68	0.77	0.66	0.84	0.67	0.61	0.61	0.63	0.62	
6	0.48	0.53	0.51	0.59	0.65	0.65	0.84	0.67	0.61	0.61	0.61	0.63	
7	0.50	0.52	0.57	0.65	0.65	0.64	0.82	0.66	0.61	0.61	0.61	0.63	
8	0.50	0.52	0.51	0.66	0.64	0.84	0.79	0.66	0.61	0.62	0.62	0.62	
9	0.50	0.52	0.51	0.61	0.64	0.73	0.80	0.64	0.61	0.59	0.63	0.64	
10	0.50	0.52	0.54	0.82	0.70	0.67	1.05	0.64	0.61	0.61	0.63	0.63	
11	0.49	0.51	0.45	0.72	0.68	0.65	0.88	0.64	0.61	0.62	0.64	0.63	
12	0.52	0.51	0.62	0.61	0.74	0.67	1.20	0.65	0.61	0.62	0.64	0.62	
13	0.53	0.51	0.54	0.61	1.34	0.70	1.12	0.65	0.61	0.62	0.63	0.63	
14	0.52	0.52	0.52	0.79	1.24	0.93	1.01	0.65	0.61	0.62	0.63	0.61	
15	0.52	0.52	0.51	0.86	1.16	0.76	0.94	0.64	0.61	0.62	0.62	0.61	
16	0.51	0.52	0.49	0.98	1.04	0.76	0.88	0.64	0.61	0.62	0.63	0.63	
17	0.50	0.52	0.50	0.71	1.06	0.83	0.83	0.64	0.61	0.62	0.62	0.63	
18	0.50	0.52	0.70	0.63	0.95	1.00	0.80	0.64	0.61	0.62	0.62	0.62	
19	0.50	0.52	0.57	0.59	0.89	0.92	0.75	0.64	0.61	0.61	0.63	0.62	
20	0.50	0.52	0.58	0.69	0.86	0.84	0.74	0.65	0.61	0.62	0.63	0.62	
21	0.50	0.51	0.55	0.70	0.95	0.84	0.72	0.65	0.61	0.61	0.63	0.63	
22	0.51	0.51	0.57	0.97	0.81	1.18	0.72	0.64	0.61	0.61	0.63	0.63	
23	0.51	0.50	0.70	0.90	0.79	1.09	0.70	0.64	0.61	0.62	0.63	0.62	
24	0.51	0.51	0.56	0.84	0.76	1.04	0.70	0.64	0.61	0.62	0.63	0.63	
25	0.51	0.51	0.55	0.79	0.74	1.00	0.71	0.64	0.61	0.62	0.62	0.63	
26	0.51	0.51	0.53	0.87	0.78	1.00	0.70	0.64	0.61	0.61	0.61	0.63	
27	0.51	0.52	0.49	0.78	0.73	0.95	0.70	0.63	0.61	0.61	0.63	0.63	
28	0.51	0.52	0.51	0.80	0.71	0.92	0.70	0.63	0.62	0.62	0.63	0.65	
29	0.51	0.52	0.54	0.74	0.70	0.95	0.69	0.63	0.62	0.62		0.65	
30	0.51	0.51	0.49	0.70	0.69	0.87	0.67	0.63	0.62	0.62		0.62	
31		0.51		0.76	0.68		0.66		0.62	0.62		0.63	
MEAN	0.50	0.52	0.54	0.74	0.80	0.83	0.82	0.65	0.61	0.62	0.62	0.63	
MAX	0.53	0.53	0.70	0.98	1.34	1.18	1.20	0.67	0.63	0.62	0.64	0.65	1.34
MIN	0.47	0.50	0.45	0.49	0.64	0.64	0.66	0.63	0.61	0.59	0.60	0.61	0.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.43 M (A.D), AT 15.00 HOURS, ON AUG 13, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.08	0.08	0.06	0.27	0.30	0.55	0.26	0.21	0.20	0.20	0.22	
2	0.05	0.08	0.08	0.44	0.25	0.27	0.78	0.25	0.21	0.18	0.20	0.22	
3	0.06	0.09	0.08	0.55	0.25	0.30	0.57	0.26	0.20	0.18	0.17	0.21	
4	0.06	0.09	0.08	0.24	0.24	0.26	0.53	0.26	0.20	0.18	0.20	0.20	
5	0.06	0.09	0.08	0.27	0.41	0.25	0.53	0.26	0.18	0.18	0.21	0.20	
6	0.06	0.10	0.08	0.16	0.24	0.24	0.53	0.26	0.18	0.18	0.18	0.21	
7	0.07	0.09	0.14	0.24	0.24	0.22	0.50	0.25	0.18	0.18	0.18	0.21	
8	0.07	0.09	0.08	0.25	0.22	0.53	0.44	0.25	0.18	0.20	0.20	0.20	
9	0.07	0.09	0.08	0.18	0.22	0.35	0.46	0.22	0.18	0.16	0.21	0.22	
10	0.07	0.09	0.11	0.50	0.30	0.26	0.94	0.22	0.18	0.18	0.21	0.21	
11	0.06	0.08	0.04	0.33	0.27	0.24	0.60	0.22	0.18	0.20	0.22	0.21	
12	0.09	0.08	0.20	0.18	0.36	0.26	1.28	0.24	0.18	0.20	0.22	0.20	
13	0.10	0.08	0.11	0.18	1.65	0.30	1.09	0.24	0.18	0.20	0.21	0.21	
14	0.09	0.09	0.09	0.44	1.38	0.70	0.86	0.24	0.18	0.20	0.21	0.18	
15	0.09	0.09	0.08	0.57	1.18	0.40	0.72	0.22	0.18	0.20	0.20	0.18	
16	0.08	0.09	0.06	0.80	0.92	0.40	0.60	0.22	0.18	0.20	0.21	0.21	
17	0.07	0.09	0.07	0.32	0.96	0.51	0.51	0.22	0.18	0.20	0.20	0.21	
18	0.07	0.09	0.30	0.21	0.74	0.84	0.46	0.22	0.18	0.20	0.20	0.20	
19	0.07	0.09	0.14	0.16	0.62	0.68	0.38	0.22	0.18	0.18	0.21	0.20	
20	0.07	0.09	0.15	0.29	0.57	0.53	0.36	0.24	0.18	0.20	0.21	0.20	
21	0.07	0.08	0.12	0.30	0.55	0.53	0.33	0.24	0.18	0.18	0.21	0.21	
22	0.08	0.08	0.14	0.78	0.48	1.23	0.33	0.22	0.18	0.18	0.21	0.21	
23	0.08	0.07	0.30	0.64	0.44	1.02	0.30	0.22	0.18	0.20	0.21	0.20	
24	0.08	0.08	0.13	0.53	0.40	0.92	0.30	0.22	0.18	0.20	0.21	0.21	
25	0.09	0.08	0.12	0.44	0.36	0.84	0.32	0.22	0.18	0.20	0.20	0.21	
26	0.08	0.08	0.10	0.59	0.43	0.84	0.30	0.22	0.18	0.18	0.18	0.21	
27	0.09	0.09	0.06	0.43	0.35	0.74	0.30	0.21	0.18	0.18	0.21	0.21	
28	0.08	0.09	0.08	0.46	0.32	0.68	0.30	0.21	0.20	0.20	0.21	0.24	
29	0.09	0.09	0.11	0.36	0.30	0.74	0.29	0.21	0.20	0.20		0.24	
30	0.08	0.08	0.06	0.30	0.29	0.59	0.26	0.21	0.20	0.20		0.20	
31		0.08		0.40	0.27		0.25		0.20	0.20		0.21	
TOTAL	2.21	2.66	3.35	11.60	15.48	15.97	15.97	6.95	5.76	5.92	5.69	6.45	98.01 CMSDAY
MEAN	0.07	0.09	0.11	0.37	0.50	0.53	0.52	0.23	0.19	0.19	0.20	0.21	0.27 CMS
MAX	0.10	0.10	0.30	0.80	1.65	1.23	1.28	0.26	0.21	0.20	0.22	0.24	1.65 CMS
MIN	0.05	0.07	0.04	0.06	0.22	0.22	0.25	0.21	0.18	0.16	0.17	0.18	0.04 CMS
RUNOFF	0.191	0.230	0.289	1.002	1.337	1.380	1.380	0.600	0.498	0.511	0.492	0.557	8.468 MCM

MOMENTARY PEAK 1.91 CMS, AT 1.43 M (A.D), AT 15.00 HOURS, ON AUG 13, 1978

RUNOFF YIELD 44.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 318.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

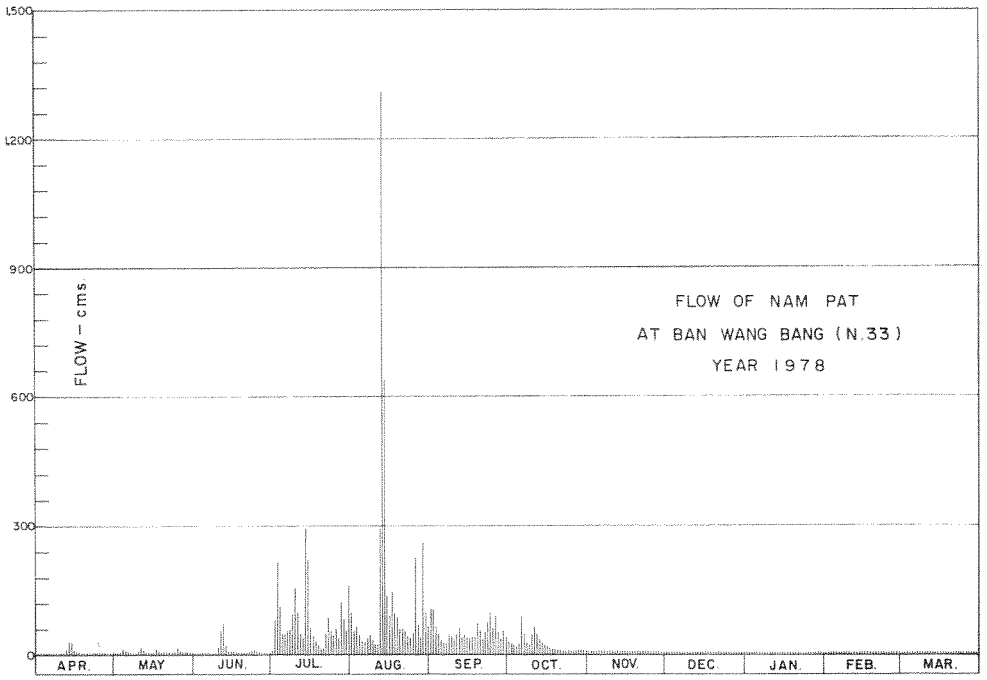
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 158 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	79.50	79.81	79.64	79.96	81.71	81.88	80.84	80.03	79.79	79.58	79.49	79.47	
2	79.47	79.63	79.61	81.42	81.27	81.88	80.74	80.01	79.77	79.57	79.49	79.49	
3	79.45	79.61	79.60	82.70	81.41	81.46	80.67	80.00	79.77	79.58	79.49	79.49	
4	79.43	80.38	79.61	81.68	81.06	81.10	80.58	79.98	79.76	79.58	79.49	79.50	
5	79.40	80.10	79.96	81.20	80.86	80.88	80.76	79.97	79.74	79.57	79.48	79.49	
6	79.39	79.86	79.75	81.13	80.73	80.72	81.64	79.96	79.74	79.56	79.48	79.49	
7	79.37	79.73	79.75	81.29	80.91	80.73	81.04	79.95	79.74	79.56	79.48	79.49	
8	79.35	79.68	79.88	81.31	81.08	81.11	80.77	79.95	79.73	79.56	79.48	79.49	
9	79.35	79.68	79.73	81.78	80.81	81.03	80.67	79.94	79.72	79.56	79.48	79.47	
10	79.34	79.64	80.56	82.28	80.68	80.90	81.17	79.93	79.71	79.56	79.47	79.45	
11	79.33	80.52	81.31	81.86	80.64	81.16	81.39	79.92	79.70	79.56	79.47	79.44	
12	79.32	80.11	81.50	81.19	81.23	81.34	81.17	79.90	79.69	79.56	79.47	79.44	
13	80.82	79.89	80.64	80.96	86.16	81.03	80.88	79.89	79.68	79.55	79.46	79.44	
14	80.74	79.77	80.17	83.14	83.66	81.08	80.70	79.88	79.67	79.55	79.46	79.43	
15	80.18	79.71	79.98	82.44	82.20	81.01	80.57	79.87	79.65	79.54	79.46	79.42	
16	79.92	79.81	80.13	81.49	81.71	80.97	80.39	79.86	79.65	79.54	79.46	79.42	
17	79.80	80.41	80.04	81.08	82.22	81.04	80.41	79.84	79.64	79.54	79.46	79.42	
18	79.74	80.01	80.00	80.81	81.75	81.04	80.35	79.84	79.63	79.54	79.45	79.42	
19	79.81	79.84	80.06	80.59	81.64	81.50	80.30	79.85	79.63	79.53	79.45	79.42	
20	79.71	79.98	80.05	80.48	81.32	81.25	80.28	79.85	79.63	79.53	79.45	79.42	
21	79.67	79.79	79.94	80.46	81.32	80.94	80.25	79.83	79.62	79.53	79.45	79.42	
22	79.73	79.72	79.92	81.31	81.21	81.19	80.20	79.83	79.61	79.52	79.45	79.42	
23	79.66	79.66	80.34	81.64	80.99	81.57	80.16	79.83	79.60	79.52	79.45	79.42	
24	79.61	79.98	80.25	81.29	80.99	81.62	80.14	79.84	79.60	79.51	79.45	79.42	
25	79.59	80.63	80.02	81.11	81.22	81.35	80.12	79.83	79.61	79.51	79.45	79.42	
26	79.71	80.09	79.91	81.33	82.76	81.70	80.11	79.83	79.60	79.50	79.45	79.42	
27	79.64	79.94	79.84	81.02	81.39	81.23	80.10	79.82	79.60	79.50	79.45	79.42	
28	79.60	79.99	79.80	82.00	81.02	80.99	80.08	79.82	79.60	79.49	79.45	79.42	
29	79.57	79.83	79.79	81.65	82.95	81.25	80.06	79.81	79.59	79.48		79.42	
30	79.61	79.75	79.94	81.31	81.90	81.07	80.06	79.79	79.59	79.49		79.42	
31		79.69		82.31	81.38		80.06		79.59	79.49		79.42	
MEAN	79.66	79.91	80.06	81.43	81.62	81.21	80.54	79.89	79.67	79.54	79.46	79.44	
MAX	80.82	80.63	81.50	83.14	86.16	81.88	81.64	80.03	79.79	79.58	79.49	79.50	86.16
MIN	79.32	79.61	79.60	79.96	80.64	80.72	80.06	79.79	79.59	79.48	79.45	79.42	79.32

ANNUAL MAX MOMENTARY GAGE HEIGHT 87.72 M (MSL), AT 10.00 HOURS, ON AUG 13, 1978
ZERO GAGE AT BOTTOM ELEVATION 79.00 M (MSL), RIVER BED 79.15 M (MSL)
LEFT BANK ELEVATION 88.94 M (MSL)
RIGHT BANK ELEVATION 92.87 M (MSL), DRAINAGE AREA 2463 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	3.10	1.40	4.60	91.00	108.00	31.00	5.45	2.90	0.90	0.48	0.44	
2	0.44	1.30	1.10	66.60	55.90	108.00	26.00	5.15	2.70	0.85	0.48	0.48	
3	0.40	1.10	1.00	215.00	65.80	69.80	22.80	5.00	2.70	0.90	0.48	0.48	
4	0.36	12.50	1.10	88.20	42.60	45.00	19.20	4.80	2.60	0.90	0.48	0.50	
5	0.30	6.50	4.60	51.00	32.00	33.00	27.00	4.70	2.40	0.85	0.46	0.48	
6	0.28	3.60	2.50	46.80	25.50	25.00	84.60	4.60	2.40	0.80	0.46	0.48	
7	0.24	2.30	2.50	57.30	34.50	25.50	41.40	4.50	2.40	0.80	0.46	0.48	
8	0.20	1.80	3.80	58.70	43.80	45.60	27.50	4.50	2.30	0.80	0.46	0.48	
9	0.20	1.80	2.30	98.00	29.50	40.80	22.80	4.40	2.20	0.80	0.46	0.44	
10	0.18	1.40	18.40	154.40	23.20	34.00	49.20	4.30	2.10	0.80	0.44	0.40	
11	0.16	16.80	58.70	106.00	21.60	48.60	64.30	4.20	2.00	0.80	0.44	0.38	
12	0.14	6.70	73.00	50.40	53.10	60.80	49.20	4.00	1.90	0.80	0.44	0.38	
13	30.00	3.90	21.60	37.00	1306.00	40.80	33.00	3.90	1.80	0.75	0.42	0.38	
14	26.00	2.70	7.90	292.60	408.00	43.80	24.00	3.80	1.70	0.75	0.42	0.36	
15	8.10	2.10	4.80	176.60	144.00	39.60	18.80	3.70	1.50	0.70	0.42	0.34	
16	4.20	3.10	7.10	72.20	91.00	37.50	12.75	3.60	1.50	0.70	0.42	0.34	
17	3.00	13.30	5.60	43.80	146.60	41.40	13.30	3.40	1.40	0.70	0.42	0.34	
18	2.40	5.15	5.00	29.50	95.00	41.40	11.75	3.40	1.30	0.70	0.40	0.34	
19	3.10	3.40	5.90	19.60	84.60	73.00	10.50	3.50	1.30	0.65	0.40	0.34	
20	2.10	4.80	5.75	15.40	59.40	54.50	10.10	3.50	1.30	0.65	0.40	0.34	
21	1.70	2.90	4.40	14.80	59.40	36.00	9.50	3.30	1.20	0.65	0.40	0.34	
22	2.30	2.20	4.20	58.70	51.70	50.40	8.50	3.30	1.10	0.60	0.40	0.34	
23	1.60	1.60	11.50	84.60	35.50	78.60	7.70	3.30	1.00	0.60	0.40	0.34	
24	1.10	4.80	9.50	57.30	38.50	102.00	7.30	3.40	1.00	0.55	0.40	0.34	
25	0.95	21.20	5.30	45.60	52.40	61.50	6.90	3.30	1.10	0.55	0.40	0.34	
26	2.10	6.35	4.10	60.10	224.60	90.00	6.70	3.30	1.00	0.50	0.40	0.34	
27	1.40	4.40	3.40	40.20	64.30	53.10	6.50	3.20	1.00	0.50	0.40	0.34	
28	1.00	4.90	3.00	121.00	40.20	38.50	6.20	3.20	1.00	0.48	0.40	0.34	
29	0.85	3.30	2.90	85.50	257.00	54.50	5.90	3.10	0.95	0.46		0.34	
30	1.10	2.50	4.40	58.70	110.00	43.20	5.90	2.90	0.95	0.48		0.34	
31		1.90		158.40	63.60		5.90		0.95	0.48		0.34	
TOTAL	96.40	153.40	286.75	2468.60	3893.30	1623.90	676.20	116.70	51.65	21.45	12.04	11.94	9372.32 CMSDAY
MEAN	3.21	4.95	9.56	79.63	124.30	54.13	21.81	3.89	1.67	0.69	0.43	0.39	25.68 CMS
MAX	30.00	21.20	73.00	292.60	1306.00	108.00	84.60	5.45	2.90	0.90	0.48	0.50	1306.00 CMS
MIN	0.14	1.10	1.00	4.60	21.60	25.00	5.90	2.90	0.95	0.46	0.40	0.34	0.14 CMS
RUNOFF	8.329	13.254	24.775	213.287	332.925	140.305	58.424	10.083	4.463	1.853	1.040	1.032	809.768 MCM

MOMENTARY PEAK 2196.00 CMS, AT 87.72 M (MSL), AT 10.00 HOURS, ON AUG 13, 1978

RUNOFF YIELD 10.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 891.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — IN THE VICINITY OF METEOROLOGICAL STATION.

ELEVATION — +12.354 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

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

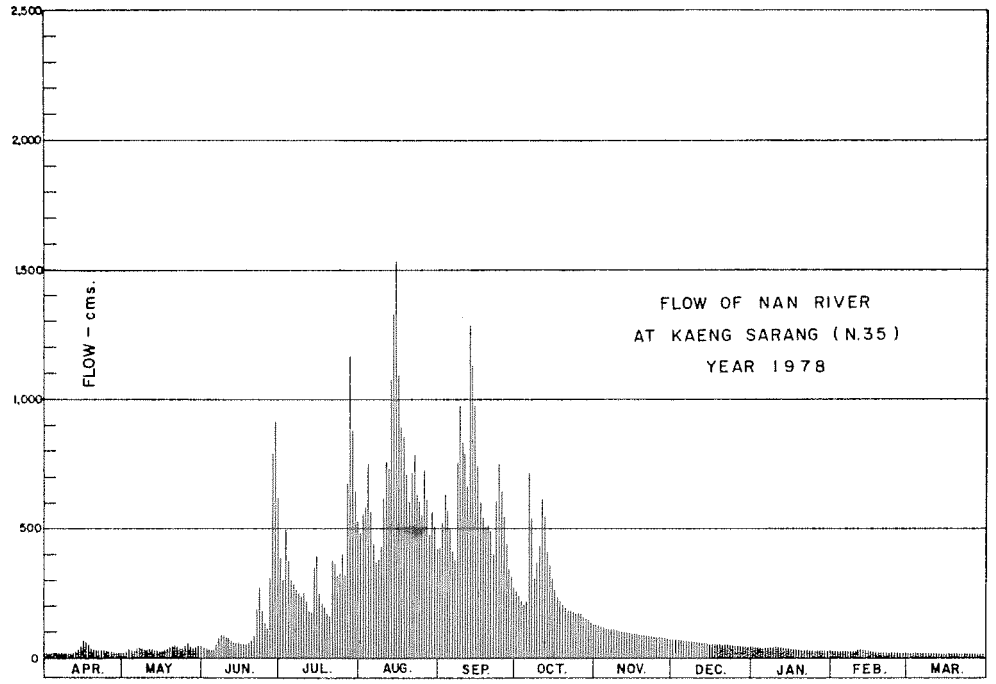
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 152 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.86	1.03	2.97	3.47	3.69	2.32	1.59	1.25	1.06	0.94	0.86	
2	0.80	0.91	0.99	2.58	3.80	3.93	2.20	1.56	1.24	1.05	0.93	0.86	
3	0.80	0.97	0.96	3.51	3.93	4.17	2.10	1.54	1.23	1.05	0.93	0.86	
4	0.80	0.91	0.95	2.87	4.61	3.99	2.05	1.52	1.23	1.04	0.93	0.86	
5	0.80	0.89	1.03	2.59	3.68	3.58	2.12	1.51	1.22	1.04	0.93	0.86	
6	0.80	1.00	1.16	2.49	3.29	3.15	4.47	1.49	1.21	1.04	0.93	0.86	
7	0.79	0.99	1.20	2.34	2.93	2.98	3.40	1.48	1.21	1.03	0.93	0.85	
8	0.79	0.98	1.35	2.29	2.97	5.09	2.61	1.47	1.20	1.04	0.92	0.84	
9	0.79	0.96	1.34	2.27	3.27	5.39	2.92	1.46	1.19	1.05	0.92	0.83	
10	0.79	0.99	1.29	2.31	3.94	4.97	3.33	1.44	1.19	1.07	0.95	0.83	
11	0.79	1.00	1.28	2.09	4.65	4.80	4.00	1.42	1.19	1.05	0.98	0.83	
12	0.82	0.99	1.21	1.92	4.56	4.69	4.06	1.42	1.18	1.03	0.99	0.82	
13	0.93	0.95	1.16	1.88	5.57	6.28	3.24	1.31	1.18	1.02	0.95	0.83	
14	1.11	0.93	1.16	2.80	6.19	5.76	2.86	1.39	1.17	1.01	0.94	0.83	
15	1.20	0.91	1.17	3.02	6.94	5.07	2.55	1.38	1.15	1.00	0.93	0.81	
16	1.18	0.92	1.14	2.36	5.74	4.55	2.37	1.37	1.14	1.00	0.91	0.81	
17	1.10	0.97	1.13	2.06	5.16	4.01	2.22	1.36	1.13	0.99	0.90	0.81	
18	0.96	1.02	1.15	2.09	4.97	3.75	2.11	1.36	1.12	0.99	0.90	0.81	
19	0.95	1.04	1.17	1.88	4.43	3.56	2.05	1.35	1.12	0.95	0.89	0.81	
20	0.96	1.08	1.19	1.79	4.03	3.59	1.98	1.34	1.12	0.95	0.89	0.80	
21	0.94	1.09	1.24	2.05	4.49	3.49	1.96	1.33	1.11	0.97	0.88	0.80	
22	0.91	1.05	1.90	2.92	4.78	3.07	1.93	1.33	1.11	0.97	0.87	0.80	
23	0.91	1.00	2.41	2.67	4.24	3.88	1.87	1.32	1.10	0.97	0.87	0.80	
24	0.89	1.00	2.05	2.69	4.04	4.60	1.87	1.31	1.10	0.97	0.87	0.80	
25	0.88	1.07	1.68	3.09	3.81	4.46	1.84	1.31	1.09	0.97	0.87	0.80	
26	0.87	1.18	1.51	2.67	4.51	3.83	1.85	1.30	1.09	0.96	0.87	0.80	
27	0.85	1.07	2.61	3.39	3.89	3.26	1.79	1.29	1.09	0.96	0.86	0.80	
28	0.85	1.02	4.76	5.98	3.42	2.84	1.74	1.28	1.08	0.96	0.86	0.80	
29	0.84	1.04	5.20	5.09	3.83	2.62	1.70	1.27	1.08	0.96		0.80	
30	0.86	1.08	4.20	4.29	3.61	2.46	1.64	1.26	1.07	0.95		0.79	
31		1.09		3.76	3.17		1.60		1.06	0.95		0.79	
MEAN	0.89	1.00	1.69	2.83	4.26	4.05	2.41	1.39	1.15	1.00	0.91	0.82	
MAX	1.20	1.18	5.20	5.98	6.94	6.28	4.47	1.59	1.25	1.07	0.99	0.86	6.94
MIN	0.79	0.86	0.95	1.79	2.93	2.46	1.60	1.26	1.06	0.95	0.86	0.79	0.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.01 M (A.D), AT 11.00 HOURS, ON AUG 15, 1978
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 10335 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	14.0	20.0	38.2	380.0	482.7	528.9	253.8	125.3	70.5	42.4	28.0	20.0	
2	14.0	25.0	33.0	303.2	552.0	580.6	232.0	120.2	69.0	41.0	27.0	20.0	
3	14.0	31.0	30.0	491.1	580.6	634.8	214.0	116.8	67.5	41.0	27.0	20.0	
4	14.0	25.0	29.0	360.0	744.6	593.6	205.0	113.4	67.5	39.6	27.0	20.0	
5	14.0	23.0	38.2	305.1	526.8	505.8	217.6	111.7	66.0	39.6	27.0	20.0	
6	14.0	34.0	57.0	286.1	444.9	416.0	708.2	108.4	64.5	39.6	27.0	20.0	
7	13.2	33.0	63.0	257.6	372.0	382.0	468.0	106.8	64.5	38.2	27.0	19.0	
8	13.2	32.0	86.0	248.2	380.0	877.0	308.9	105.2	63.0	39.6	26.0	18.0	
9	13.2	30.0	84.4	244.6	440.7	969.8	370.0	103.6	61.5	41.0	26.0	17.0	
10	13.2	33.0	76.5	251.9	582.8	841.6	453.3	100.4	61.5	43.8	29.0	17.0	
11	13.2	34.0	75.0	212.2	755.0	794.0	596.0	97.2	61.5	41.0	32.0	17.0	
12	16.0	33.0	64.5	181.6	731.6	765.4	609.2	97.2	60.0	38.2	33.0	16.0	
13	27.0	29.0	57.0	174.6	1028.1	1274.8	434.4	79.6	60.0	36.8	29.0	17.0	
14	49.5	27.0	57.0	346.0	1242.4	1091.4	358.0	92.4	58.5	35.4	28.0	17.0	
15	63.0	25.0	58.5	390.0	1528.0	871.0	297.5	90.8	55.5	34.0	27.0	15.0	
16	60.0	26.0	54.0	261.4	1084.6	729.0	263.3	89.2	54.0	34.0	25.0	15.0	
17	48.0	31.0	52.5	206.8	898.0	598.2	235.6	87.6	52.5	33.0	24.0	15.0	
18	30.0	36.8	55.5	212.2	841.6	541.5	215.8	87.6	51.0	33.0	24.0	15.0	
19	29.0	39.6	58.5	174.6	697.8	501.6	205.0	86.0	51.0	29.0	23.0	15.0	
20	30.0	45.2	61.5	159.3	602.6	507.9	192.4	84.4	51.0	29.0	23.0	14.0	
21	28.0	46.6	84.4	376.0	713.4	486.9	188.8	82.8	49.5	31.0	22.0	14.0	
22	25.0	41.0	178.0	370.0	788.8	400.0	183.4	82.8	49.5	31.0	21.0	14.0	
23	25.0	34.0	270.9	320.3	651.6	569.6	172.9	81.2	48.0	31.0	21.0	14.0	
24	23.0	34.0	205.0	324.1	604.8	742.0	172.9	79.6	48.0	31.0	21.0	14.0	
25	22.0	43.8	140.6	404.0	554.2	705.6	167.8	79.6	46.6	31.0	21.0	14.0	
26	21.0	60.0	111.7	320.3	718.6	558.6	169.5	78.0	46.6	30.0	21.0	14.0	
27	19.0	43.8	308.9	465.9	571.8	438.6	159.3	76.5	46.6	30.0	20.0	14.0	
28	19.0	36.8	783.6	1167.0	472.2	354.0	150.8	75.0	45.2	30.0	20.0	14.0	
29	18.0	39.6	910.0	877.0	558.6	310.8	144.0	73.5	45.2	30.0		14.0	
30	20.0	45.2	642.0	663.6	512.1	280.4	133.8	72.0	43.8	29.0		13.2	
31		46.6		543.6	420.0		127.0		42.4	29.0		13.2	
TOTAL	722.5	1084.0	4764.4	11278.3	21082.9	18851.6	8608.2	2784.8	1721.9	1082.2	706.0	499.4	73186.1 CMSDAY
MEAN	24.1	35.0	158.8	363.8	680.1	628.4	277.7	92.8	55.5	34.9	25.2	16.1	200.5 CMS
MAX	63.0	60.0	910.0	1167.0	1528.0	1274.8	708.2	125.3	70.5	43.8	33.0	20.0	1528.0 CMS
MIN	13.2	20.0	29.0	159.3	372.0	280.4	127.0	72.0	42.4	29.0	20.0	13.2	13.2 CMS
RUNOFF	62.42	93.66	411.64	974.44	1821.56	1628.78	743.75	240.61	148.77	93.50	61.00	43.15	6323.28 MCM

MOMENTARY PEAK 1556.00 CMS, AT 7.01 M (A.D), AT 11.00 HOURS, ON AUG 15, 1978

RUNOFF YIELD 19.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 150.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAN RIVER BASIN

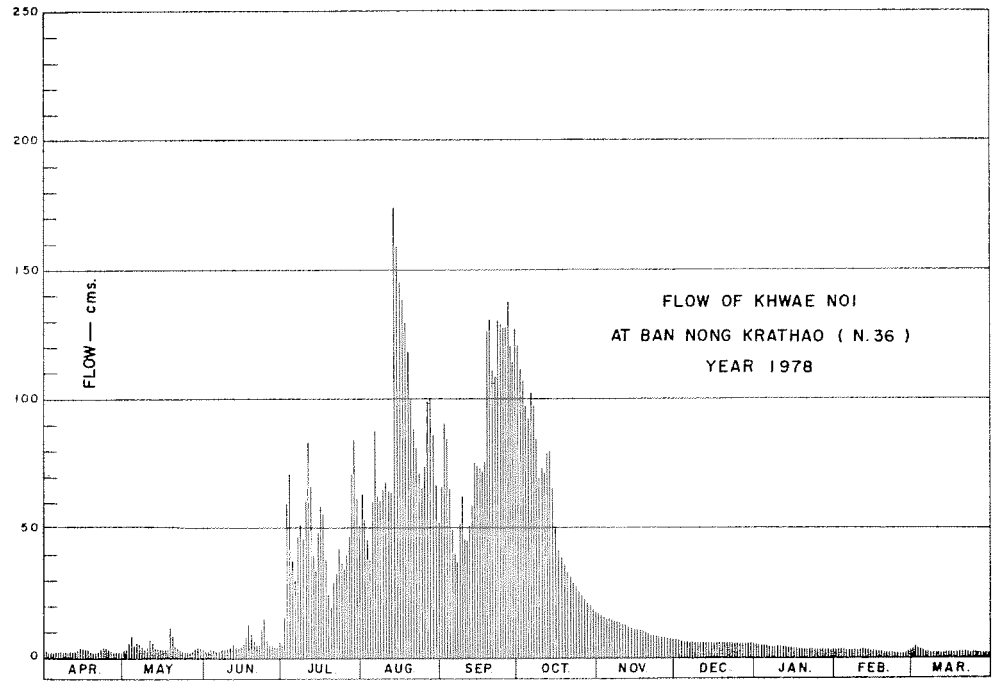
KHWAE NOI AT BAN NONG KRATHAO, PHITSANULOK (N.36)

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.S.
LOCATION	ON LEFT BANK ALONG THE MEASURING LINE.
ELEVATION	+6.154 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION + 6.92 M. (A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 161 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	0.85	0.79	1.16	4.89	4.97	6.83	2.19	1.36	1.09	0.86	0.94	
2	0.75	0.81	0.75	2.14	4.49	6.15	6.78	2.13	1.34	1.08	0.85	1.01	
3	0.73	1.19	0.81	4.75	4.22	5.89	6.62	2.08	1.33	1.07	0.85	0.94	
4	0.72	1.42	0.81	5.30	3.63	5.09	6.34	2.05	1.31	1.06	0.85	0.87	
5	0.74	1.00	0.78	3.61	4.62	4.36	6.21	2.03	1.30	1.05	0.85	0.82	
6	0.74	1.23	0.85	3.07	6.00	3.86	6.56	1.99	1.29	1.02	0.85	0.80	
7	0.73	1.12	0.77	4.04	4.88	3.56	6.41	1.96	1.29	0.98	0.84	0.78	
8	0.72	0.95	0.85	4.31	4.80	4.08	5.70	1.93	1.28	1.01	0.84	0.78	
9	0.72	0.85	0.88	4.03	4.95	4.87	5.22	1.91	1.27	1.03	0.83	0.77	
10	0.72	0.97	0.90	4.79	5.12	4.05	5.42	1.86	1.26	1.03	0.83	0.76	
11	0.72	1.31	1.00	5.80	5.00	4.00	5.34	1.82	1.25	1.02	0.91	0.76	
12	0.73	1.22	1.09	5.03	4.93	4.30	5.63	1.78	1.24	1.00	0.93	0.74	
13	0.82	0.92	0.94	3.75	6.60	4.71	5.67	1.75	1.22	0.98	0.91	0.73	
14	0.94	0.85	0.91	3.33	7.27	5.42	4.94	1.72	1.20	0.98	0.89	0.73	
15	0.88	0.84	1.00	4.02	7.19	5.43	4.37	1.69	1.20	0.96	0.87	0.73	
16	0.81	0.84	1.06	5.18	7.10	5.38	4.00	1.66	1.19	0.95	0.86	0.73	
17	0.83	0.84	1.23	5.06	7.06	5.35	3.74	1.65	1.19	0.95	0.84	0.72	
18	0.78	0.86	1.82	3.85	7.00	5.53	3.53	1.62	1.18	0.94	0.81	0.71	
19	0.75	1.73	1.67	2.75	6.94	6.96	3.37	1.61	1.18	0.93	0.83	0.71	
20	0.74	1.45	1.36	2.42	6.68	7.01	3.24	1.59	1.16	0.92	0.81	0.70	
21	0.74	0.95	1.17	2.98	6.15	6.76	3.12	1.56	1.16	0.90	0.80	0.70	
22	0.87	0.85	1.06	3.27	5.90	6.73	3.01	1.53	1.14	0.90	0.79	0.70	
23	0.99	0.80	1.58	3.89	5.46	7.00	2.88	1.51	1.14	0.90	0.79	0.70	
24	0.90	0.76	1.99	3.60	5.06	6.99	2.78	1.49	1.13	0.90	0.78	0.69	
25	0.81	0.75	1.30	3.33	5.06	6.98	2.73	1.48	1.12	0.88	0.78	0.69	
26	0.76	0.74	1.09	3.53	5.66	6.98	2.65	1.46	1.11	0.88	0.77	0.70	
27	0.74	0.78	1.02	3.96	6.48	7.07	2.56	1.43	1.11	0.87	0.77	0.70	
28	0.72	0.87	0.99	5.29	6.49	6.91	2.48	1.41	1.11	0.87	0.78	0.69	
29	0.71	1.00	1.03	5.84	5.89	6.82	2.39	1.39	1.10	0.87		0.69	
30	0.77	0.93	1.18	5.25	5.00	6.97	2.30	1.36	1.09	0.88		0.68	
31		0.85		4.36	4.35		2.23		1.09	0.88		0.68	
MEAN	0.78	0.98	1.09	3.99	5.64	5.67	4.36	1.72	1.20	0.96	0.83	0.75	
MAX	0.99	1.73	1.99	5.84	7.27	7.07	6.83	2.19	1.36	1.09	0.93	1.01	7.27
MIN	0.71	0.74	0.75	1.16	3.63	3.56	2.23	1.36	1.09	0.87	0.77	0.68	0.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.29 M (A.D), AT 10.00 HOURS, ON AUG 27, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.60	3.40	2.92	5.88	62.80	64.40	115.10	17.08	7.60	5.32	3.48	4.12	
2	2.60	3.08	2.60	16.48	54.80	91.40	112.00	16.36	7.40	5.24	3.40	4.68	
3	2.44	6.12	3.08	60.00	49.40	85.16	104.80	15.76	7.30	5.16	3.40	4.12	
4	2.36	8.20	3.08	71.20	38.48	66.80	96.52	15.40	7.10	5.08	3.40	3.56	
5	2.52	4.60	2.84	38.16	57.40	52.20	92.86	15.16	7.00	5.00	3.40	3.16	
6	2.52	6.44	3.40	30.05	87.80	42.28	102.90	14.68	6.92	4.76	3.40	3.00	
7	2.44	5.56	2.76	45.80	62.60	37.40	98.77	14.32	6.92	4.44	3.32	2.84	
8	2.36	4.20	3.40	51.20	61.00	46.60	80.60	13.96	6.84	4.68	3.32	2.84	
9	2.36	3.40	3.64	45.60	64.00	62.40	69.44	13.72	6.76	4.84	3.24	2.76	
10	2.36	4.36	3.80	60.80	67.40	46.00	73.88	13.12	6.68	4.84	3.24	2.68	
11	2.36	7.10	4.60	83.00	65.00	45.00	72.08	12.64	6.60	4.76	3.88	2.68	
12	2.44	6.36	5.32	65.60	63.60	51.00	78.92	12.16	6.52	4.60	4.04	2.52	
13	3.16	3.96	4.12	40.40	104.00	59.20	79.88	11.80	6.36	4.44	3.88	2.44	
14	4.12	3.40	3.88	33.95	174.00	73.88	63.80	11.44	6.20	4.44	3.72	2.44	
15	3.64	3.32	4.60	45.40	158.20	74.12	52.40	11.08	6.20	4.28	3.56	2.44	
16	3.08	3.32	5.08	68.60	142.00	72.96	45.00	10.72	6.12	4.20	3.48	2.44	
17	3.24	3.32	6.44	66.20	137.20	72.30	40.24	10.60	6.12	4.20	3.32	2.36	
18	2.84	3.48	12.64	42.10	130.00	76.52	36.95	10.24	6.04	4.12	3.08	2.28	
19	2.60	11.56	10.84	25.25	124.00	126.00	34.55	10.12	6.04	4.04	3.24	2.28	
20	2.52	8.50	7.60	20.30	107.20	131.20	32.60	9.90	5.88	3.96	3.08	2.20	
21	2.52	4.20	5.96	28.70	91.40	111.00	30.80	9.60	5.88	3.80	3.00	2.20	
22	3.56	3.40	5.08	33.05	85.40	109.50	29.15	9.30	5.72	3.80	2.92	2.20	
23	4.52	3.00	9.80	42.82	74.84	130.00	27.20	9.10	5.72	3.80	2.92	2.20	
24	3.80	2.68	14.68	38.00	66.20	129.00	25.70	8.90	5.64	3.80	2.84	2.13	
25	3.08	2.60	7.00	33.95	66.20	128.00	24.95	8.80	5.56	3.64	2.84	2.13	
26	2.68	2.52	5.32	36.95	79.64	128.00	23.75	8.60	5.48	3.64	2.76	2.20	
27	2.52	2.84	4.76	44.20	100.70	138.40	22.40	8.30	5.48	3.56	2.76	2.20	
28	2.36	3.56	4.52	70.98	100.97	121.00	21.20	8.10	5.48	3.56	2.84	2.13	
29	2.28	4.60	4.84	83.96	85.16	114.40	19.85	7.90	5.40	3.56		2.13	
30	2.76	4.04	6.04	70.10	65.00	127.00	18.50	7.60	5.32	3.64		2.06	
31		3.40		52.20	52.00		17.59		5.32	3.64		2.06	
TOTAL	84.64	140.52	164.64	1450.88	2678.39	2613.12	1744.38	346.46	193.60	132.84	91.76	81.46	9722.70 CMSDAY
MEAN	2.82	4.53	5.49	46.80	86.40	87.10	56.27	11.55	6.25	4.29	3.28	2.63	26.64 CMS
MAX	4.52	11.56	14.68	83.96	174.00	138.40	115.10	17.08	7.60	5.32	4.04	4.68	174.00 CMS
MIN	2.28	2.52	2.60	5.88	38.48	37.40	17.59	7.60	5.32	3.56	2.76	2.06	2.06 CMS
RUNOFF	7.313	12.141	14.225	125.356	231.413	225.773	150.714	29.934	16.727	11.477	7.928	7.040	840.041 MCM

MOMENTARY PEAK 178.00 CMS, AT 7.29 M (A.D), AT 10.00 HOURS, ON AUG 27, 1978

RUNOFF YIELD 16.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 107.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAN RIVER BASIN

NAN RIVER AT BAN THAP KRIT, NAKHON SAWAN (N.37)

LOCATION — LAT. 15°-45'-19" N., LONG. 100°-15'-35" E., ON LEFT BANK INFRONT OF WAT THAP KRIT, AMPHOE CHUM SAENG, NAKHON SAWAN.

DRAINAGE AREA — 56,214 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR THE TOP STAFF GAGE.

ELEVATION — +7.121 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1974

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 248 DISCHARGE MEASUREMENTS MADE DURING 1967-1974.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

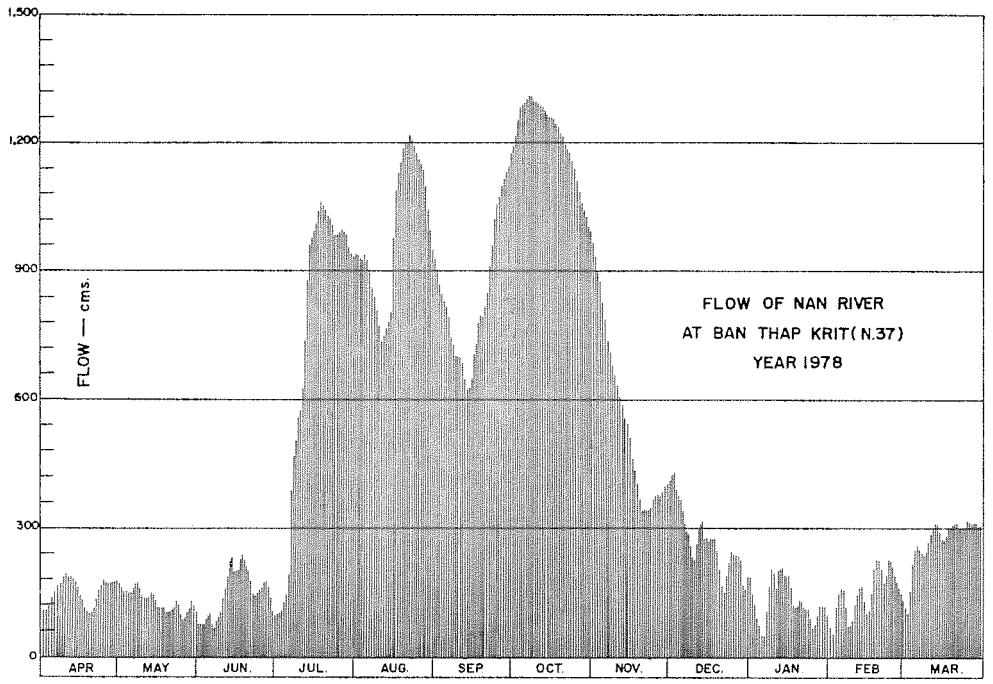
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.02	1.39	0.82	0.95	5.22	5.08	6.28	5.29	2.73	1.50	0.77	1.09	
2	1.00	1.31	0.82	1.05	5.17	4.93	6.38	5.14	2.79	1.25	0.64	0.98	
3	1.06	1.28	0.81	1.07	5.14	4.81	6.52	4.98	2.63	1.00	0.82	1.30	
4	1.20	1.30	0.92	1.12	5.19	4.71	6.66	4.83	2.55	0.85	1.13	1.67	
5	1.30	1.28	0.96	1.26	5.13	4.63	6.69	4.64	2.49	0.67	1.36	1.86	
6	1.35	1.35	0.87	1.56	5.01	4.51	6.72	4.44	2.33	0.63	1.31	1.91	
7	1.36	1.42	0.75	2.58	4.83	4.32	6.74	4.25	2.14	1.00	1.06	1.85	
8	1.42	1.43	0.89	2.98	4.71	4.21	6.74	4.10	2.05	1.37	0.79	1.81	
9	1.52	1.32	1.05	3.19	4.59	4.12	6.72	3.96	1.89	1.59	0.81	1.84	
10	1.54	1.23	1.20	3.42	4.41	4.11	6.70	3.80	1.72	1.55	1.05	1.97	
11	1.49	1.22	1.35	3.75	4.26	4.06	6.67	3.71	1.91	1.36	1.21	2.08	
12	1.50	1.18	1.51	4.26	4.35	3.93	6.65	3.63	2.15	1.60	1.36	2.14	
13	1.47	1.28	1.71	4.91	4.42	3.76	6.62	3.48	2.22	1.65	1.38	2.21	
14	1.41	1.25	1.76	5.31	4.57	3.76	6.58	3.35	2.00	1.55	1.17	2.18	
15	1.32	1.15	1.57	5.44	4.96	3.87	6.56	3.21	2.01	1.53	0.96	2.04	
16	1.21	1.06	1.60	5.51	5.82	4.14	6.55	3.01	1.99	1.50	1.02	1.99	
17	1.07	1.07	1.74	5.64	6.00	4.40	6.52	2.83	2.01	1.34	1.29	2.04	
18	1.00	1.07	1.80	5.74	6.13	4.54	6.49	2.67	2.00	1.08	1.61	2.12	
19	0.98	1.00	1.71	5.69	6.24	4.53	6.45	2.48	1.82	1.08	1.76	2.19	
20	1.01	0.98	1.58	5.67	6.30	4.63	6.39	2.36	1.58	1.18	1.74	2.20	
21	1.06	1.03	1.45	5.61	6.33	4.78	6.32	2.36	1.39	1.13	1.64	2.21	
22	1.18	1.06	1.29	5.56	6.36	5.02	6.26	2.37	1.30	1.05	1.43	2.14	
23	1.32	1.16	1.25	5.47	6.32	5.28	6.22	2.37	1.52	1.05	1.56	2.17	
24	1.38	1.10	1.28	5.40	6.27	5.56	6.13	2.45	1.71	0.90	1.74	2.15	
25	1.44	0.95	1.37	5.42	6.18	5.73	6.06	2.53	1.82	0.75	1.73	2.23	
26	1.41	0.87	1.43	5.46	6.10	5.84	5.92	2.56	1.79	0.81	1.56	2.22	
27	1.42	0.97	1.43	5.44	6.04	5.93	5.82	2.53	1.80	0.95	1.45	2.21	
28	1.44	1.06	1.35	5.39	5.88	6.01	5.72	2.57	1.75	1.09	1.36	2.22	
29	1.45	1.14	1.20	5.29	5.62	6.08	5.64	2.63	1.43	1.10		2.18	
30	1.44	1.10	1.02	5.21	5.44	6.20	5.57	2.68	1.34	1.01		2.20	
31		0.97		5.19	5.26		5.43		1.51	0.92		2.24	
MEAN	1.29	1.16	1.28	4.21	5.43	4.78	6.35	3.37	1.95	1.16	1.28	1.99	
MAX	1.54	1.43	1.80	5.74	6.36	6.20	6.74	5.29	2.79	1.65	1.76	2.24	6.74
MIN	0.98	0.87	0.75	0.95	4.26	3.76	5.43	2.36	1.30	0.63	0.64	0.98	0.63

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.74 M (A.D), AT 19.00 HOURS, ON OCT 7, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -4.96 M (A.D)

LEFT BANK ELEVATION — 7.11 M (A.D)

RIGHT BANK ELEVATION — 7.42 M (A.D), DRAINAGE AREA 56214 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	108.0	165.4	78.0	97.5	943.4	912.6	1192.2	958.8	416.0	184.0	70.5	118.5	
2	105.0	152.6	78.0	112.5	932.4	879.6	1216.2	925.8	428.0	143.0	51.0	102.0	
3	114.0	147.8	76.5	115.5	925.8	853.2	1250.0	890.6	396.0	105.0	78.0	151.0	
4	135.0	151.0	93.0	123.0	936.8	831.2	1265.0	857.6	380.0	82.5	124.5	214.6	
5	151.0	147.8	99.0	144.6	923.6	813.6	1292.5	815.8	368.0	55.5	160.6	248.8	
6	159.0	159.0	85.5	194.8	897.2	787.2	1300.2	771.8	336.0	49.5	152.6	257.8	
7	160.6	170.4	67.5	386.0	857.6	745.4	1305.4	730.0	299.6	105.0	114.0	247.0	
8	170.4	172.1	88.5	466.0	831.2	721.2	1305.4	698.0	283.0	162.2	73.5	239.8	
9	187.6	154.2	112.5	508.0	804.8	702.2	1300.2	668.6	254.2	200.2	76.5	245.2	
10	191.2	139.8	135.0	555.2	765.2	700.1	1295.0	635.0	223.6	193.0	112.5	268.6	
11	182.3	138.2	159.0	624.5	732.2	689.6	1287.5	616.1	257.8	160.6	136.6	288.4	
12	184.0	132.0	185.8	732.2	752.0	662.3	1282.5	599.3	301.5	202.0	160.6	299.6	
13	178.9	147.8	221.8	875.2	767.4	626.6	1275.0	567.8	314.8	211.0	163.8	312.9	
14	168.7	143.0	230.8	963.2	800.4	626.6	1265.0	540.5	274.0	193.0	130.5	307.2	
15	154.2	127.5	196.6	992.2	886.2	649.7	1260.0	512.0	275.8	189.4	99.0	291.2	
16	136.6	114.0	202.0	1008.3	1081.8	706.4	1257.5	472.0	272.2	184.0	108.0	272.2	
17	115.5	115.5	227.2	1038.6	1125.0	763.0	1250.0	436.0	275.8	197.4	149.4	281.2	
18	105.0	115.5	238.0	1062.6	1156.2	793.8	1242.6	404.0	274.0	117.0	203.8	295.8	
19	102.0	105.0	221.8	1050.6	1182.6	791.6	1233.0	366.0	241.6	117.0	230.8	309.1	
20	106.5	102.0	198.4	1045.8	1197.0	813.6	1218.6	342.0	198.4	132.0	227.2	311.0	
21	114.0	109.5	175.5	1031.4	1204.2	846.6	1201.8	342.0	165.4	124.5	209.2	312.9	
22	132.0	114.0	149.4	1019.8	1211.4	899.4	1187.4	344.0	151.0	112.5	172.1	299.6	
23	154.2	129.0	143.0	999.1	1201.8	956.6	1177.8	344.0	187.6	112.5	194.8	305.3	
24	163.8	120.0	147.6	983.0	1189.8	1019.8	1156.2	360.0	221.8	90.0	227.2	301.5	
25	173.8	97.5	162.2	987.6	1168.2	1060.2	1139.4	376.0	241.6	67.5	225.4	316.7	
26	168.7	85.5	172.1	996.8	1149.0	1086.6	1105.8	382.0	236.2	76.5	194.8	314.8	
27	170.4	100.5	172.1	992.2	1134.6	1108.2	1081.8	376.0	238.0	97.5	175.5	312.9	
28	173.8	114.0	159.0	980.8	1096.2	1127.4	1057.8	384.0	229.0	118.5	160.6	314.8	
29	175.5	126.0	135.0	958.8	1033.8	1144.2	1038.6	396.0	172.1	120.0		307.2	
30	173.8	120.0	108.0	941.2	992.2	1173.0	1022.1	406.0	157.4	106.5		311.0	
31		100.5		936.8	952.2		989.9		185.8	93.0		318.6	
TOTAL	4515.5	4017.1	4519.0	22923.8	30832.2	25491.5	37472.4	16517.7	8256.2	4062.3	4183.0	8467.2	171257.7 CMSDAY
MEAN	150.5	129.6	150.6	739.5	994.6	849.7	1208.8	550.6	266.3	131.0	149.4	273.1	469.2 CMS
MAX	191.2	172.1	238.0	1062.6	1211.4	1173.0	1305.4	958.8	428.0	211.0	230.8	318.6	1305.4 CMS
MIN	102.0	85.5	67.5	97.5	732.2	626.6	989.9	342.0	151.0	49.5	51.0	102.0	49.5 CMS
RUNOFF	390.14	347.08	390.44	1980.61	2663.90	2202.46	3237.61	1427.13	713.33	350.98	361.41	731.57	14796.66 MCM

MOMENTARY PEAK 1305.40 CMS, AT 6.74 M (A.D), AT 19.00 HOURS, ON OCT 7, 1978

RUNOFF YIELD 8.35 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 FAIR. STAGE-DISCHARGE RELATION DEFINED BY 124 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

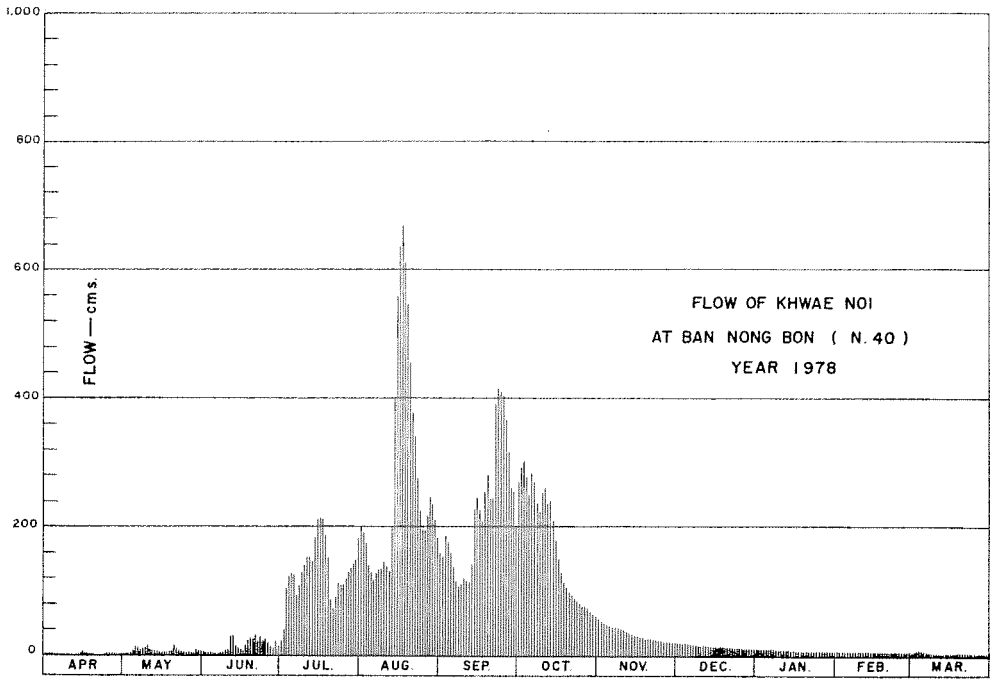
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.57	0.83	1.11	5.15	4.47	6.23	2.29	1.32	0.95	0.79	0.70	
2	0.60	0.57	0.76	1.85	5.05	4.42	6.40	2.25	1.31	0.95	0.78	0.76	
3	0.59	0.59	0.70	3.40	4.71	4.93	6.67	2.19	1.30	0.94	0.78	0.92	
4	0.57	0.68	0.66	3.81	4.09	4.75	6.28	2.12	1.28	0.93	0.77	0.90	
5	0.57	0.96	0.64	3.86	3.89	4.45	5.95	2.08	1.26	0.92	0.77	0.85	
6	0.57	1.09	0.67	3.80	3.66	4.04	6.46	2.05	1.25	0.91	0.77	0.80	
7	0.56	0.87	0.65	3.21	3.97	3.58	6.23	2.02	1.22	0.91	0.77	0.75	
8	0.56	1.01	0.71	3.60	4.03	3.44	5.79	2.02	1.22	0.90	0.77	0.73	
9	0.56	1.01	0.74	3.93	4.04	3.61	5.51	1.99	1.21	0.90	0.77	0.71	
10	0.56	1.15	0.89	4.12	4.35	3.80	6.01	1.95	1.20	0.90	0.77	0.70	
11	0.55	0.93	0.89	4.40	4.09	3.56	5.11	1.87	1.18	0.90	0.77	0.69	
12	0.61	0.87	1.65	4.41	3.90	3.58	5.75	1.83	1.16	0.88	0.78	0.68	
13	0.64	0.96	1.62	4.18	5.06	4.30	5.83	1.78	1.15	0.88	0.84	0.68	
14	0.61	0.92	1.15	4.77	7.52	5.68	5.49	1.75	1.13	0.87	0.84	0.67	
15	0.74	0.82	1.06	5.37	9.47	5.91	5.04	1.71	1.11	0.87	0.82	0.66	
16	0.75	0.76	0.90	5.39	10.26	5.58	4.50	1.68	1.09	0.86	0.79	0.66	
17	0.74	0.74	0.93	5.35	10.56	5.36	4.09	1.65	1.08	0.85	0.76	0.65	
18	0.69	0.81	1.45	4.96	10.12	6.02	3.78	1.64	1.07	0.85	0.75	0.65	
19	0.65	0.87	2.05	4.23	9.30	6.37	3.57	1.61	1.07	0.85	0.74	0.65	
20	0.64	0.88	2.03	3.24	8.33	5.87	3.41	1.59	1.06	0.85	0.73	0.65	
21	0.63	1.20	1.67	2.69	7.50	5.86	3.29	1.56	1.05	0.84	0.72	0.65	
22	0.61	0.94	1.40	3.15	6.78	7.85	3.17	1.53	1.05	0.83	0.72	0.65	
23	0.61	0.81	1.62	3.56	6.09	8.08	3.06	1.50	1.04	0.83	0.72	0.65	
24	0.63	0.74	1.36	3.52	5.50	8.04	2.97	1.48	1.03	0.82	0.71	0.64	
25	0.70	0.72	1.52	3.54	5.07	7.97	2.85	1.45	1.02	0.82	0.70	0.64	
26	0.69	0.69	1.51	3.62	5.06	7.71	2.81	1.43	1.02	0.82	0.70	0.64	
27	0.68	0.66	1.11	3.83	5.51	7.16	2.79	1.42	1.01	0.81	0.69	0.64	
28	0.65	0.69	0.99	3.96	5.89	7.03	2.68	1.39	0.99	0.80	0.69	0.64	
29	0.61	0.94	1.35	4.26	5.71	6.86	2.58	1.37	0.98	0.80		0.64	
30	0.58	0.92	1.18	4.34	5.23	6.66	2.44	1.35	0.97	0.79		0.63	
31		0.86		4.86	4.78		2.39		0.97	0.79		0.63	
MEAN	0.63	0.85	1.16	3.88	5.96	5.56	4.52	1.75	1.12	0.87	0.76	0.69	
MAX	0.75	1.20	2.05	5.39	10.56	8.08	6.67	2.29	1.32	0.95	0.84	0.92	10.56
MIN	0.55	0.57	0.64	1.11	3.66	3.44	2.39	1.35	0.97	0.79	0.69	0.63	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.62 M (A.D), AT 11.00 HOURS, ON AUG 17, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.40	2.55	7.60	14.30	200.00	159.20	271.10	56.60	20.60	10.00	6.80	5.00	
2	3.00	2.55	6.20	39.00	194.00	156.20	283.00	55.00	20.30	10.00	6.60	6.20	
3	2.85	2.85	5.00	105.00	173.60	186.80	303.60	52.60	20.00	9.80	6.60	9.40	
4	2.55	4.60	4.20	125.50	139.50	176.00	274.60	49.80	19.40	9.60	6.40	9.00	
5	2.55	10.20	3.80	128.00	129.50	158.00	251.50	48.20	18.80	9.40	6.40	8.00	
6	2.55	13.70	4.40	125.00	118.00	137.00	287.20	47.00	18.50	9.20	6.40	7.00	
7	2.40	8.40	4.00	95.50	133.50	114.00	271.10	45.80	17.60	9.20	6.40	6.00	
8	2.40	11.30	5.20	115.00	136.50	107.00	240.30	45.80	17.60	9.00	6.40	5.60	
9	2.40	11.30	5.80	131.50	137.00	115.50	221.60	44.60	17.30	9.00	6.40	5.20	
10	2.40	15.50	8.80	141.00	152.50	125.00	255.70	43.00	17.00	9.00	6.40	5.00	
11	2.25	9.60	8.80	155.00	139.50	113.00	262.70	39.80	16.40	9.00	6.40	4.80	
12	3.20	8.40	31.00	155.60	130.00	114.00	237.50	38.20	15.80	8.60	6.60	4.60	
13	3.80	10.20	29.80	144.00	194.60	150.00	243.10	36.20	15.50	8.60	7.80	4.60	
14	3.20	9.40	15.50	177.20	371.60	232.60	220.40	35.00	14.90	8.40	7.80	4.40	
15	5.80	7.40	12.80	213.20	553.00	248.70	193.40	33.40	14.30	8.40	7.40	4.20	
16	6.00	6.20	9.00	214.40	637.60	225.80	161.00	32.20	13.70	8.20	6.80	4.20	
17	5.80	5.80	9.60	212.00	671.20	212.60	139.00	31.00	13.40	8.00	6.20	4.00	
18	4.80	7.20	24.50	188.60	622.20	256.40	124.00	30.60	13.10	8.00	6.00	4.00	
19	4.00	8.40	47.00	146.50	536.00	280.90	113.50	29.40	13.10	8.00	5.80	4.00	
20	3.80	8.60	46.20	97.00	440.70	245.90	105.50	28.70	12.80	8.00	5.60	4.00	
21	3.60	17.00	31.80	72.60	370.00	245.20	99.50	27.80	12.50	7.80	5.40	4.00	
22	3.20	9.80	23.00	92.50	312.40	398.00	93.50	26.90	12.50	7.60	5.40	4.00	
23	3.20	7.20	29.80	113.00	261.30	418.20	88.00	26.00	12.20	7.60	5.40	4.00	
24	3.60	5.80	21.80	111.00	221.00	414.60	83.80	25.40	11.90	7.40	5.20	3.80	
25	5.00	5.40	26.60	112.00	195.20	408.30	79.00	24.50	11.60	7.40	5.00	3.80	
26	4.80	4.80	26.30	116.00	194.60	386.80	77.40	23.90	11.60	7.40	5.00	3.80	
27	4.60	4.20	14.30	126.50	221.60	342.80	76.60	23.60	11.30	7.20	4.80	3.80	
28	4.00	4.80	10.80	133.00	247.30	332.40	72.20	22.70	10.80	7.00	4.80	3.80	
29	3.20	9.80	21.50	148.00	234.70	318.80	68.20	22.10	10.60	7.00		3.80	
30	2.70	9.40	16.40	152.00	204.80	302.80	62.60	21.50	10.40	6.80		3.60	
31		8.20		182.60	177.80		60.60		10.40	6.80		3.60	
TOTAL	107.05	250.55	511.50	4082.50	8451.19	7082.50	5321.20	1067.30	455.90	257.40	172.20	151.20	27910.47 CMSDAY
MEAN	3.57	8.08	17.05	131.69	272.62	236.08	171.65	35.58	14.71	8.30	6.15	4.88	76.47 CMS
MAX	6.00	17.00	47.00	214.40	671.20	418.20	303.60	56.60	20.60	10.00	7.80	9.40	671.20 CMS
MIN	2.25	2.55	3.80	14.30	118.00	107.00	60.60	21.50	10.40	6.80	4.80	3.60	2.25 CMS
RUNOFF	9.249	21.647	44.194	352.728	730.183	611.927	459.751	92.215	39.390	22.239	14.878	13.064	2411.464 MCM

MOMENTARY PEAK 678.40 CMS, AT 10.62 M (A.D), AT 11.00 HOURS, ON AUG 17, 1978
RUNOFF YIELD 17.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 156.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

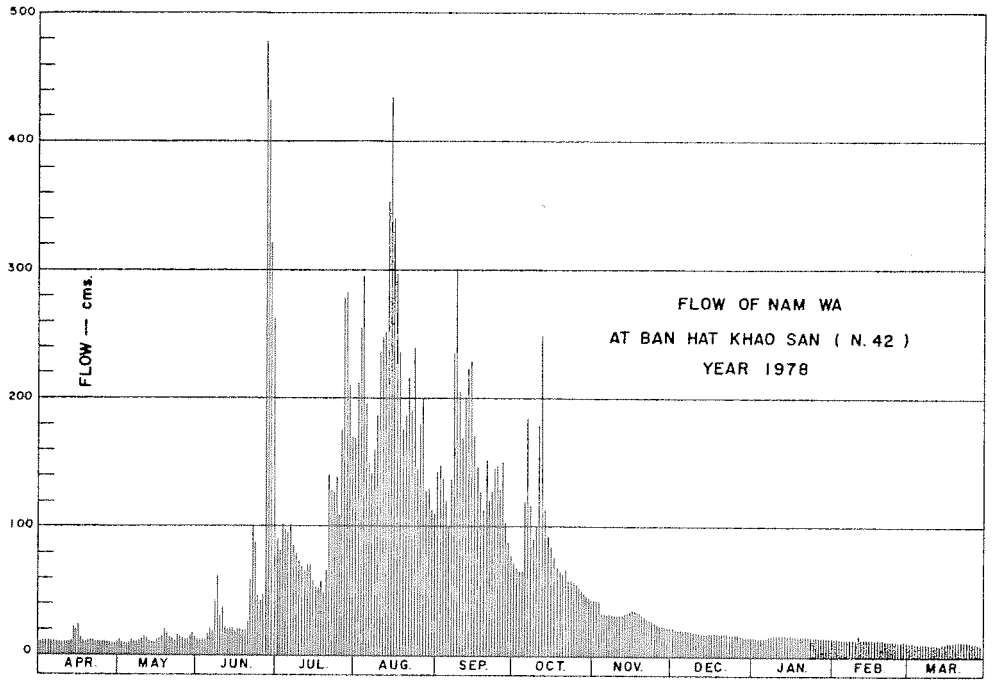
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 132 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.00	1.04	1.04	2.13	3.00	2.72	1.86	1.42	1.22	1.11	1.09	1.01	
2	1.00	1.01	1.05	1.96	3.63	2.77	1.80	1.41	1.22	1.11	1.08	1.01	
3	1.00	1.00	1.05	2.23	4.15	2.68	1.76	1.40	1.21	1.10	1.08	1.01	
4	1.00	0.98	1.07	2.18	3.60	2.62	1.74	1.37	1.21	1.10	1.08	1.01	
5	1.00	1.04	1.19	2.15	3.03	2.38	2.22	1.37	1.20	1.10	1.08	1.00	
6	1.00	1.05	1.15	2.22	2.76	2.22	3.15	1.37	1.20	1.11	1.07	1.00	
7	1.00	1.00	1.44	2.06	2.67	2.71	2.26	1.37	1.19	1.11	1.07	1.00	
8	1.00	1.02	1.69	1.99	2.92	4.18	2.03	1.35	1.18	1.14	1.07	0.99	
9	1.00	1.04	1.35	1.93	3.25	3.63	2.19	1.35	1.18	1.13	1.07	0.99	
10	1.00	1.08	1.42	1.88	3.61	3.22	3.00	1.35	1.17	1.13	1.08	0.99	
11	1.00	1.12	1.26	1.77	3.75	3.02	3.76	1.36	1.17	1.12	1.14	0.99	
12	1.01	1.05	1.19	1.74	3.76	3.29	2.78	1.36	1.16	1.12	1.08	0.99	
13	1.22	1.01	1.20	1.80	4.46	3.50	2.38	1.37	1.15	1.12	1.07	0.99	
14	1.19	1.00	1.21	1.82	5.17	3.57	2.18	1.37	1.15	1.12	1.07	0.99	
15	1.27	1.02	1.16	1.64	4.64	3.20	2.03	1.38	1.15	1.12	1.07	1.00	
16	1.09	1.04	1.20	1.57	3.99	2.92	1.92	1.41	1.15	1.12	1.06	1.01	
17	1.05	1.08	1.19	1.55	3.78	2.69	1.83	1.39	1.15	1.12	1.06	1.01	
18	1.01	1.10	1.17	1.62	3.39	2.55	1.77	1.37	1.15	1.12	1.06	1.02	
19	1.04	1.19	1.18	1.51	3.07	2.39	1.74	1.35	1.15	1.12	1.06	1.03	
20	1.05	1.12	1.26	1.71	3.22	2.80	1.70	1.34	1.15	1.12	1.06	1.03	
21	1.01	1.08	1.72	2.69	3.45	2.47	1.76	1.33	1.14	1.12	1.05	1.03	
22	1.00	1.05	2.21	2.55	3.22	2.53	1.65	1.31	1.14	1.12	1.05	1.02	
23	1.00	1.04	2.05	2.53	3.67	2.72	1.66	1.30	1.13	1.12	1.04	1.02	
24	1.00	1.13	1.46	2.64	2.70	2.77	1.63	1.28	1.13	1.12	1.03	1.02	
25	1.00	1.11	1.38	2.35	2.93	2.53	1.59	1.26	1.13	1.12	1.03	1.01	
26	1.00	1.06	1.49	2.90	3.29	2.80	1.59	1.25	1.13	1.11	1.03	1.00	
27	1.00	1.05	5.47	4.00	2.74	2.33	1.55	1.25	1.12	1.11	1.02	1.00	
28	0.99	1.07	5.00	4.05	2.54	2.16	1.50	1.24	1.12	1.11	1.02	0.99	
29	0.99	1.13	3.76	3.46	2.57	2.05	1.47	1.23	1.11	1.11		0.99	
30	1.00	1.09	3.46	3.26	2.40	1.94	1.44	1.22	1.11	1.10		0.98	
31		1.06		2.99	2.34		1.42		1.11	1.09		0.98	
MEAN	1.03	1.06	1.75	2.29	3.35	2.78	1.98	1.34	1.16	1.12	1.06	1.00	
MAX	1.27	1.19	5.47	4.05	5.17	4.18	3.76	1.42	1.22	1.14	1.14	1.03	5.47
MIN	0.99	0.98	1.04	1.51	2.34	1.94	1.42	1.22	1.11	1.09	1.02	0.98	0.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.90 M (A.D), AT 9.00 HOURS, ON JUN 27, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.55 M (A.D)
LEFT BANK ELEVATION 12.29 M (A.D)
RIGHT BANK ELEVATION 11.89 M (A.D), DRAINAGE AREA 2107 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.00	12.00	12.00	94.40	170.00	144.80	74.20	44.20	22.40	15.60	14.50	10.50	
2	10.00	10.50	12.50	81.20	236.30	149.30	70.00	43.60	22.40	15.60	14.00	10.50	
3	10.00	10.00	12.50	102.40	296.50	141.20	67.20	43.00	21.70	15.00	14.00	10.50	
4	10.00	9.00	13.50	98.40	233.00	135.80	65.80	33.60	21.70	15.00	14.00	10.50	
5	10.00	12.00	20.40	96.00	173.00	114.40	101.60	33.60	21.00	15.00	14.00	10.00	
6	10.00	12.50	18.00	101.60	148.40	101.60	185.00	33.60	21.00	15.60	13.50	10.00	
7	10.00	10.00	39.20	88.80	140.30	143.90	104.80	33.60	20.40	15.60	13.50	10.00	
8	10.00	11.00	62.00	83.30	162.80	300.40	86.40	32.00	19.80	17.40	13.50	9.50	
9	10.00	12.00	32.00	79.10	195.00	236.30	99.20	32.00	19.80	16.80	13.50	9.50	
10	10.00	14.00	37.60	75.60	234.10	192.00	170.00	32.00	19.20	16.80	14.00	9.50	
11	10.00	16.20	25.20	67.90	249.50	172.00	250.60	32.80	19.20	16.20	17.40	9.50	
12	10.50	12.50	20.40	65.80	250.60	199.00	150.20	32.80	18.60	16.20	14.00	9.50	
13	22.40	10.50	21.00	70.00	336.80	222.00	114.40	33.60	18.00	16.20	13.50	9.50	
14	20.40	10.00	21.70	71.40	433.80	229.70	98.40	33.60	18.00	16.20	13.50	9.50	
15	25.90	11.00	18.60	58.80	360.20	190.00	86.40	34.40	18.00	16.20	13.50	10.00	
16	14.50	12.00	21.00	53.90	276.80	162.80	78.40	36.80	18.00	16.20	13.00	10.50	
17	12.50	14.00	20.40	52.50	252.80	142.10	72.10	35.20	18.00	16.20	13.00	10.50	
18	10.50	15.00	19.20	57.40	209.90	129.50	67.90	33.60	18.00	16.20	13.00	11.00	
19	12.00	20.40	19.80	49.70	177.00	115.20	65.80	32.00	18.00	16.20	13.00	11.50	
20	12.50	16.20	25.20	63.70	192.00	152.00	63.00	31.20	18.00	16.20	13.00	11.50	
21	10.50	14.00	64.40	142.10	216.50	122.30	67.20	30.40	17.40	16.20	12.50	11.50	
22	10.00	12.50	100.80	129.50	192.00	127.70	59.50	28.80	17.40	16.20	12.50	11.00	
23	10.00	12.00	88.00	127.70	240.70	144.80	60.20	28.00	16.80	16.20	12.00	11.00	
24	10.00	16.80	46.60	137.60	143.00	149.30	58.10	26.60	16.80	16.20	11.50	11.00	
25	10.00	15.60	41.80	112.00	163.70	127.70	55.30	25.20	16.80	16.20	11.50	10.50	
26	10.00	13.00	48.40	161.00	199.00	152.00	55.30	24.50	16.80	15.60	11.50	10.00	
27	10.00	12.50	477.50	278.00	146.60	110.40	52.50	24.50	16.20	15.60	11.00	10.00	
28	9.50	13.50	410.00	284.00	128.60	96.80	49.00	23.80	16.20	15.60	11.00	9.50	
29	9.50	16.80	250.60	217.60	131.30	88.00	47.20	23.10	15.60	15.60		9.50	
30	10.00	14.50	217.60	196.00	116.00	79.80	45.40	22.40	15.60	15.00		9.00	
31		13.00		169.10	111.20		44.20		15.60	14.50		9.00	
TOTAL	350.70	405.00	2217.90	3466.50	6517.39	4572.80	2665.30	954.50	572.40	493.30	368.90	315.50	22900.17 CMSDAY
MEAN	11.69	13.06	73.93	111.82	210.24	152.43	85.98	31.82	18.46	15.91	13.18	10.18	62.74 CMS
MAX	25.90	20.40	477.50	284.00	433.80	300.40	250.60	44.20	22.40	17.40	17.40	11.50	477.50 CMS
MIN	9.50	9.00	12.00	49.70	111.20	79.80	44.20	22.40	15.60	14.50	11.00	9.00	9.00 CMS
RUNOFF	30.300	34.992	191.626	299.505	563.103	395.090	230.282	82.469	49.455	42.621	31.873	27.259	1978.574 MCM

MOMENTARY PEAK 700.00 CMS, AT 6.90 M (A.D), AT 9.00 HOURS, ON JUN 27, 1978

RUNOFF YIELD 29.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 332.23 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S./R.I.D.

LOCATION — ABOUT 20 METERS WEST OF THE GAGE SITE.

ELEVATION — +25.628 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 BECAUSE OF BACKWATER EFFECT, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 196 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

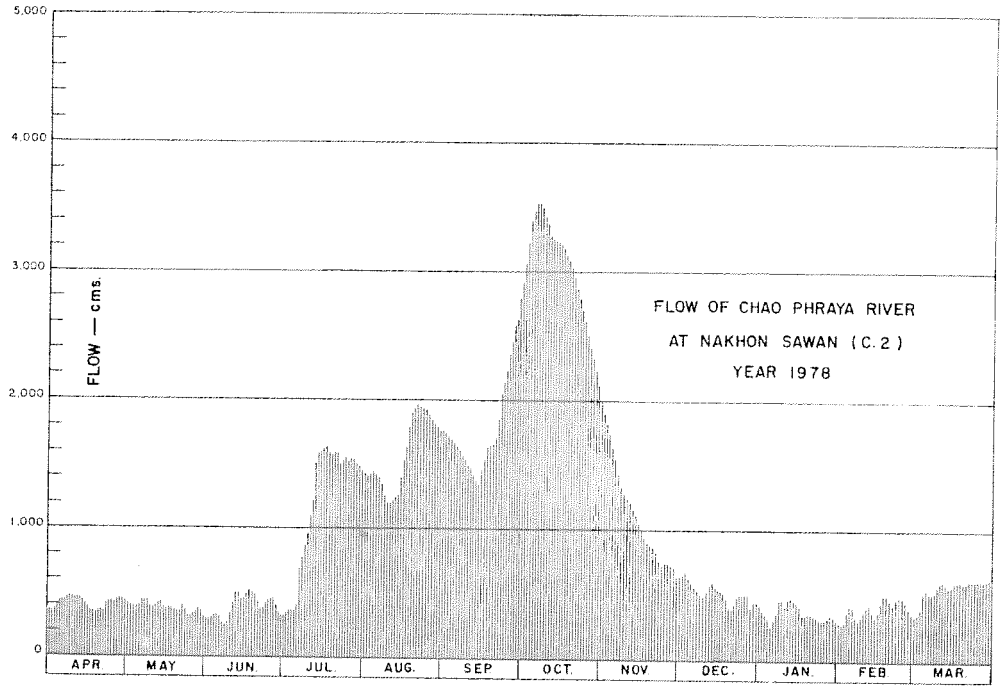
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	18.74	18.98	18.41	18.54	21.99	22.70	24.80	23.58	19.92	19.15	18.53	18.82	
2	18.71	18.92	18.47	18.66	21.89	22.67	25.02	23.38	19.96	18.94	18.42	18.83	
3	18.79	18.89	18.53	18.74	21.88	22.61	25.15	23.21	20.03	18.76	18.54	18.96	
4	18.96	18.87	18.57	18.73	21.96	22.54	25.24	23.05	19.95	18.58	18.84	19.17	
5	19.05	18.87	18.60	18.75	21.93	22.48	25.29	22.80	19.88	18.43	19.07	19.52	
6	19.04	18.90	18.57	18.96	21.91	22.38	25.32	22.63	19.76	18.36	19.05	19.55	
7	19.04	19.05	18.43	19.82	21.87	22.33	25.33	22.46	19.61	18.66	18.85	19.53	
8	19.10	19.03	18.23	20.22	21.78	22.28	25.32	22.29	19.55	19.07	18.61	19.53	
9	19.15	18.91	18.31	20.42	21.56	22.17	25.30	22.07	19.43	19.27	18.56	19.52	
10	19.11	18.88	18.43	20.60	21.41	22.14	25.24	21.95	19.34	19.25	18.78	19.65	
11	19.13	18.85	18.81	20.86	21.36	22.08	25.19	21.88	19.51	19.06	18.95	19.77	
12	19.13	18.88	19.15	21.33	21.41	21.95	25.15	21.93	19.67	19.28	19.08	19.80	
13	19.11	18.95	19.32	22.08	21.46	21.79	25.13	21.73	19.77	19.35	19.10	19.85	
14	19.05	18.99	19.28	22.28	21.50	21.75	25.13	21.54	19.68	19.28	18.95	19.69	
15	18.92	18.86	19.04	22.30	21.63	21.91	25.12	21.36	19.60	19.23	18.72	19.67	
16	18.81	18.77	19.18	22.36	22.06	22.12	25.11	21.19	19.56	19.21	18.80	19.74	
17	18.66	18.80	19.32	22.39	22.33	22.31	25.09	21.04	19.53	19.07	19.03	19.78	
18	18.70	18.80	19.34	22.37	22.69	22.43	25.04	20.93	19.41	18.83	19.29	19.82	
19	18.67	18.76	19.25	22.25	22.91	22.46	24.98	20.83	19.32	18.79	19.45	19.86	
20	18.70	18.72	19.20	22.29	23.01	22.47	24.91	20.74	19.04	18.88	19.41	19.79	
21	18.74	18.80	19.03	22.30	23.07	22.61	24.82	20.69	18.95	18.86	19.31	19.76	
22	18.72	18.80	18.77	22.29	23.09	22.99	24.74	20.58	19.15	18.80	19.12	19.87	
23	18.92	18.88	18.87	22.12	23.06	23.29	24.64	20.38	19.33	18.80	19.24	19.82	
24	18.98	18.78	18.95	22.17	23.04	23.52	24.55	20.25	19.41	18.68	19.40	19.86	
25	19.02	18.58	19.04	22.22	23.04	23.72	24.42	20.29	19.41	18.56	19.39	19.85	
26	18.99	18.55	19.10	22.17	22.99	23.95	24.30	20.32	19.43	18.56	19.26	19.86	
27	19.05	18.66	19.10	22.23	22.95	24.13	24.18	20.27	19.42	18.66	19.18	19.87	
28	19.11	18.72	19.01	22.22	22.86	24.27	24.07	20.21	19.10	18.80	19.05	19.82	
29	19.09	18.78	18.74	22.14	22.79	24.36	23.96	20.19	18.98	18.83		19.85	
30	19.05	18.76	18.62	22.07	22.72	24.60	23.83	19.97	19.09	18.75		19.86	
31		18.54		22.03	22.69		23.72		19.22	18.65		19.90	
MEAN	18.94	18.82	18.86	21.22	22.29	22.77	24.84	21.45	19.48	18.88	19.00	19.65	
MAX	19.15	19.05	19.34	22.39	23.09	24.60	25.33	23.58	20.03	19.35	19.45	19.90	25.33
MIN	18.66	18.54	18.23	18.54	21.36	21.75	23.72	19.97	18.95	18.36	18.42	18.82	18.23

ANNUAL MAX MOMENTARY GAGE HEIGHT — 25.33 M (MSL), AT 13.00 HOURS, ON OCT 7, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (MSL), RIVER BED 14.60 M (MSL)

LEFT BANK ELEVATION — 25.89 M (MSL)

RIGHT BANK ELEVATION — 26.05 M (MSL), DRAINAGE AREA 110569. SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	360.0	420.0	282.2	311.2	1451.0	1770.0	2960.0	2028.0	641.0	437.5	296.0	355.0	
2	352.5	405.0	295.4	340.0	1411.0	1756.5	3134.0	1915.0	653.0	385.0	274.0	357.5	
3	372.5	397.5	308.9	360.0	1407.0	1729.5	3275.0	1830.0	674.0	342.0	298.0	390.0	
4	415.0	392.5	318.1	357.5	1439.0	1698.0	3400.0	1750.0	650.0	306.0	360.0	442.5	
5	437.5	392.5	325.0	362.5	1427.0	1671.0	3475.0	1625.0	629.0	276.0	417.5	530.0	
6	435.0	400.0	318.1	415.0	1419.0	1626.0	3523.0	1540.0	593.0	262.0	412.5	537.5	
7	435.0	437.5	286.6	661.6	1403.0	1603.5	3539.5	1464.0	552.5	322.0	362.5	532.5	
8	450.0	432.5	246.0	797.0	1367.0	1581.0	3523.0	1396.0	537.5	417.5	312.0	532.5	
9	462.5	402.5	262.0	867.0	1279.0	1531.5	3490.0	1314.5	507.5	467.5	302.0	530.0	
10	452.5	395.0	286.6	930.0	1219.0	1518.0	3400.0	1272.5	485.0	462.5	346.0	562.5	
11	457.5	387.5	377.5	1021.0	1199.0	1491.0	3327.0	1248.0	527.5	415.0	387.5	596.0	
12	457.5	395.0	462.5	1187.0	1219.0	1435.0	3275.0	1230.5	567.5	470.0	420.0	605.0	
13	452.5	412.5	511.0	1491.0	1239.0	1371.0	3249.0	1195.5	596.0	487.5	425.0	620.0	
14	437.5	422.5	499.0	1581.0	1255.0	1355.0	3249.0	1129.0	570.0	470.0	387.5	572.5	
15	405.0	390.0	435.0	1590.0	1307.0	1419.0	3236.0	1073.0	550.0	457.5	334.0	567.5	
16	377.5	367.5	470.0	1617.0	1482.0	1509.0	3223.0	1022.0	540.0	452.5	350.0	587.0	
17	340.0	375.0	511.0	1630.5	1603.5	1594.5	3200.5	977.0	532.5	417.5	407.5	599.0	
18	350.0	375.0	517.0	1621.5	1765.5	1648.5	3153.0	944.0	502.5	357.5	472.5	611.0	
19	342.5	365.0	490.0	1567.5	1875.0	1662.0	3096.0	914.0	480.0	348.0	512.5	623.0	
20	350.0	355.0	475.0	1585.5	1925.0	1666.5	3029.5	887.0	410.0	370.0	502.5	602.0	
21	360.0	375.0	432.5	1590.0	1955.0	1729.5	2948.0	872.0	387.5	365.0	477.5	593.0	
22	355.0	375.0	367.5	1585.5	1965.0	1915.0	2876.0	839.0	437.5	350.0	430.0	626.0	
23	405.0	395.0	392.5	1509.0	1950.0	2065.0	2786.0	779.0	482.5	350.0	460.0	611.0	
24	420.0	370.0	412.5	1531.5	1940.0	2180.0	2707.5	740.0	502.5	326.0	500.0	623.0	
25	430.0	320.4	435.0	1554.0	1940.0	2280.0	2601.0	752.0	502.5	302.0	497.5	620.0	
26	422.5	313.5	450.0	1531.5	1915.0	2402.5	2505.0	761.0	507.5	302.0	465.0	623.0	
27	437.5	340.0	450.0	1558.5	1895.0	2508.0	2416.0	746.0	505.0	322.0	445.0	626.0	
28	452.5	355.0	427.5	1554.0	1850.0	2595.5	2339.0	728.0	425.0	350.0	412.5	611.0	
29	447.5	370.0	360.0	1518.0	1815.0	2654.0	2262.0	722.0	395.0	357.5		620.0	
30	437.5	365.0	330.0	1486.5	1780.0	2820.0	2178.0	656.0	422.5	340.0		623.0	
31		311.2		1468.5	1765.5		2112.0		455.0	320.0		635.0	
TOTAL	12310.0	11810.1	11734.4	37180.8	49462.5	54786.0	93488.0	34350.0	16221.0	11608.0	11267.0	17564.0	361781.8 CMSDAY
MEAN	410.3	381.0	391.1	1199.4	1595.6	1826.2	3015.7	1145.0	523.3	374.5	402.4	566.6	991.2 CMS
MAX	462.5	437.5	517.0	1630.5	1965.0	2820.0	3539.5	2028.0	674.0	487.5	512.5	635.0	3539.5 CMS
MIN	340.0	311.2	246.0	311.2	1199.0	1355.0	2112.0	656.0	387.5	262.0	274.0	355.0	246.0 CMS
RUNOFF	1063.58	1020.39	1013.85	3212.42	4273.56	4733.51	8077.36	2967.84	1401.49	1002.93	973.47	1517.53	31257.94 MCM

MOMENTARY PEAK 3539.50 CMS, AT 25.33 M (MSL), AT 13.00 HOURS, ON OCT 7, 1978

RUNOFF YIELD 8.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 32.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 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 FAIR. STAGE-DISCHARGE RELATION DEFINED BY 86 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — ESTIMATED FLOW BY PLOTED IN DISCHARGE HYDROGRAPH ON PERIOD AUG 1-6 AND NOV 17-20, 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

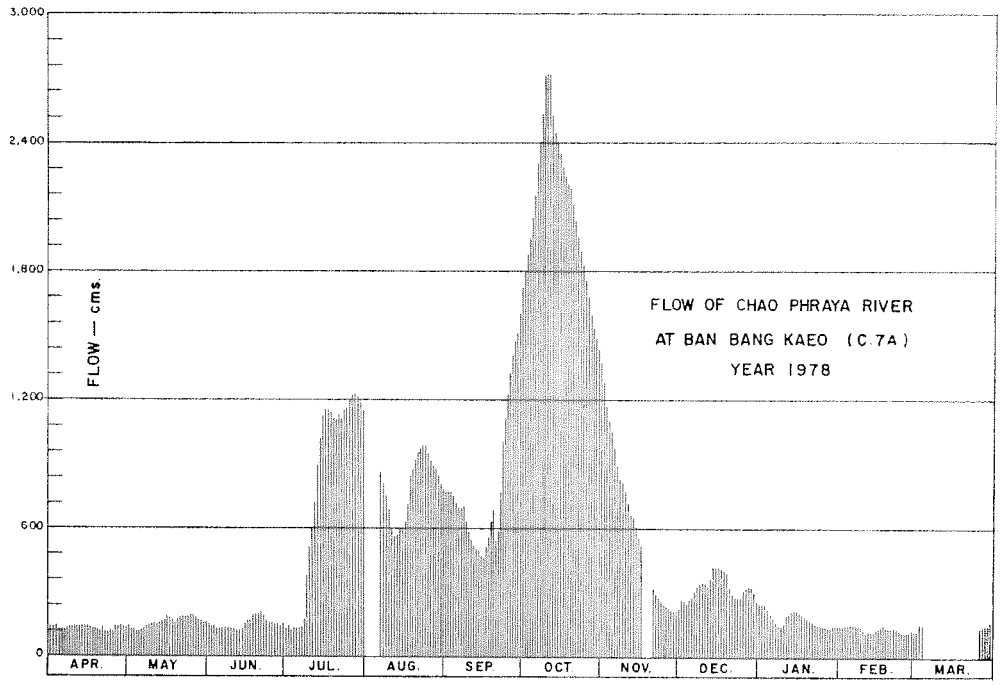
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.48	0.75	0.51	5.72	4.34	6.84	6.25	1.25	1.43	0.57	0.37	
2	0.55	0.40	0.65	0.54	5.56	4.32	6.92	6.01	1.53	1.48	0.60	0.34	
3	0.61	0.40	0.57	0.46	5.39	4.32	6.96	5.79	1.44	1.42	0.59	0.51	
4	0.45	0.34	0.58	0.49	5.22	4.25	7.02	5.55	1.48	1.30	0.58	0.61	
5	0.46	0.35	0.53	0.49	5.06	4.14	7.05	5.36	1.58	1.10	0.63	*******	
6	0.39	0.38	0.54	0.49	4.92	3.99	7.09	5.12	1.65	0.96	0.65	*******	
7	0.39	0.43	0.51	0.56	4.73	3.95	7.14	4.81	1.89	0.83	0.66	*******	
8	0.53	0.52	0.54	0.80	4.51	4.03	7.19	4.55	2.01	0.66	0.64	*******	
9	0.56	0.56	0.51	2.20	4.30	3.70	7.22	4.51	2.07	0.61	0.55	*******	
10	0.56	0.58	0.48	3.07	3.93	3.40	7.23	4.28	2.09	0.72	0.46	*******	
11	0.54	0.65	0.43	3.58	3.61	3.23	7.23	4.05	2.05	0.99	0.32	*******	
12	0.53	0.63	0.40	4.08	3.32	3.07	7.21	3.84	1.96	1.07	0.40	*******	
13	0.57	0.68	0.37	4.59	3.29	2.95	7.20	3.71	2.33	1.13	0.31	*******	
14	0.59	0.73	0.42	5.40	3.46	2.94	7.18	3.52	2.56	1.22	0.41	*******	
15	0.55	0.75	0.65	5.73	3.50	2.80	7.16	3.27	2.56	1.21	0.47	*******	
16	0.52	0.95	0.79	5.83	3.42	2.78	7.15	3.06	2.57	1.13	0.48	*******	
17	0.52	0.94	0.80	5.83	3.70	3.03	7.13	2.88	2.49	1.07	0.58	*******	
18	0.47	0.78	0.85	5.82	4.22	3.45	7.12	2.64	2.46	1.02	0.64	*******	
19	0.41	0.73	0.91	5.73	4.67	3.75	7.11	2.40	2.41	0.91	0.54	*******	
20	0.35	0.90	1.02	5.68	4.87	3.95	7.09	2.20	2.11	0.81	0.56	*******	
21	0.57	0.92	1.13	5.68	5.04	3.21	7.06	1.92	1.83	0.76	0.49	*******	
22	0.34	0.91	1.01	5.74	5.12	3.42	7.02	1.80	1.67	0.65	0.50	*******	
23	0.37	0.92	0.87	5.68	5.21	5.33	6.97	1.64	1.62	0.64	0.49	*******	
24	0.39	0.94	0.76	5.82	5.25	5.72	6.94	1.55	1.64	0.63	0.36	*******	
25	0.40	1.00	0.66	5.82	5.22	6.04	6.89	1.41	1.68	0.59	0.35	*******	
26	0.50	1.00	0.69	5.97	5.04	6.25	6.84	1.29	1.85	0.55	0.33	0.56	
27	0.57	0.97	0.67	6.01	4.87	6.41	6.77	1.20	1.97	0.53	0.40	0.52	
28	0.58	0.84	0.66	6.02	4.83	6.52	6.69	1.15	2.01	0.51	0.37	0.58	
29	0.54	0.75	0.69	6.01	4.69	6.57	6.60	1.20	1.92	0.60		0.61	
30	0.52	0.72	0.67	5.90	4.57	6.68	6.51	1.18	1.72	0.60		0.70	
31		0.73		5.84	4.40		6.40		1.52	0.60		0.63	
MEAN	0.50	0.71	0.67	4.08	4.57	4.28	7.00	3.27	1.93	0.89	0.50	*******	
MAX	0.61	1.00	1.13	6.02	5.72	6.68	7.23	6.25	2.57	1.48	0.66	0.70	7.23
MIN	0.34	0.34	0.37	0.46	3.29	2.78	6.40	1.15	1.25	0.51	0.31	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 7.25 M (MSL), AT 18.00 HOURS, ON OCT 10, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (MSL), RIVER BED — -7.40 M (MSL)

LEFT BANK ELEVATION — 7.43 M (MSL)

RIGHT BANK ELEVATION — 6.44 M (MSL), DRAINAGE AREA — SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	146.8	133.6	166.0	137.2	1120.8	777.2	1728.0	1325.0	226.0	250.2	144.4	120.4	
2	142.0	124.0	154.0	140.8	1068.8	772.9	1832.0	1222.0	264.2	257.2	148.0	116.8	
3	149.2	124.0	144.4	131.2	1023.6	772.9	1896.0	1144.6	251.6	248.8	146.8	137.2	
4	130.0	116.8	145.6	134.8	982.8	757.6	2000.0	1066.0	257.2	232.0	145.6	149.2	
5	131.2	118.0	139.6	134.8	944.4	733.6	2060.0	1016.4	271.2	208.0	151.6	*******	
6	122.8	121.6	140.8	134.8	910.8	701.0	2140.0	958.8	281.0	191.2	154.0	*******	
7	122.8	127.6	137.2	143.2	865.2	693.0	2304.0	884.4	316.5	175.6	155.2	*******	
8	139.6	138.4	140.8	172.0	814.3	709.5	2484.0	823.1	335.6	155.2	152.8	*******	
9	143.2	143.2	137.2	366.0	768.5	643.0	2680.0	814.3	345.2	149.2	142.0	*******	
10	143.2	145.6	133.6	518.3	689.0	583.0	2760.0	764.1	348.4	162.4	131.2	*******	
11	140.8	154.0	127.6	619.0	625.0	549.0	2760.0	713.9	342.0	194.8	114.4	*******	
12	139.6	151.6	124.0	720.5	567.0	518.3	2600.0	671.0	327.6	204.4	124.0	*******	
13	144.4	157.6	120.4	831.8	561.0	495.5	2520.0	645.0	386.8	211.6	113.2	*******	
14	146.8	163.6	126.4	1026.0	595.0	493.6	2448.0	607.0	424.8	222.4	125.2	*******	
15	142.0	166.0	154.0	1124.2	603.0	468.0	2376.0	557.0	424.8	221.2	132.4	*******	
16	138.4	190.0	170.8	1158.2	587.0	464.4	2340.0	516.4	426.6	211.6	133.6	*******	
17	138.4	188.8	172.0	1158.2	643.0	510.7	2268.0	482.4	412.4	204.4	145.6	*******	
18	132.4	169.6	178.0	1154.8	751.0	593.0	2232.0	439.2	407.6	198.4	152.8	*******	
19	125.2	163.6	185.2	1124.2	850.8	653.0	2196.0	398.0	399.6	185.2	140.8	*******	
20	118.0	184.0	198.4	1107.2	898.8	693.0	2140.0	366.0	351.6	173.2	143.2	*******	
21	144.4	186.4	211.6	1107.2	939.6	545.0	2080.0	321.2	307.5	167.2	134.8	*******	
22	116.8	185.2	197.2	1127.6	958.8	587.0	2000.0	303.0	283.8	154.0	136.0	*******	
23	120.4	186.4	180.4	1107.2	980.4	1009.2	1912.0	279.6	276.8	152.8	134.8	*******	
24	122.8	188.8	167.2	1154.8	990.0	1120.8	1864.0	267.0	279.6	151.6	119.2	*******	
25	124.0	196.0	155.2	1154.8	982.8	1234.0	1788.0	247.4	285.2	146.8	118.0	*******	
26	136.0	196.0	158.8	1207.2	939.6	1325.0	1728.0	230.8	310.5	142.0	115.6	143.2	
27	144.4	192.4	156.4	1222.0	898.8	1406.0	1651.2	220.0	329.2	139.6	124.0	138.4	
28	145.6	176.8	155.2	1226.0	889.2	1472.0	1577.6	214.0	335.6	137.2	120.4	145.6	
29	140.8	166.0	158.8	1222.0	855.6	1502.0	1520.0	220.0	321.2	148.0		149.2	
30	138.4	162.4	156.4	1182.0	827.4	1571.2	1466.0	217.6	291.0	148.0		160.0	
31		163.6		1161.6	790.3		1400.0		262.8	148.0		151.6	
TOTAL	4070.4	4981.6	4693.2	24909.6	25922.3	24354.4	64750.8	17935.2	10083.9	5692.2	3799.6	*******	******** CMSDAY
MEAN	135.7	160.7	156.4	803.5	836.2	811.8	2088.7	597.8	325.3	183.6	135.7	*******	******* CMS
MAX	149.2	196.0	211.6	1226.0	1120.8	1571.2	2760.0	1325.0	426.6	257.2	155.2	160.0	2760.0 CMS
MIN	116.8	116.8	120.4	131.2	561.0	464.4	1400.0	214.0	226.0	137.2	113.2	*******	******* CMS
RUNOFF	351.68	430.41	405.49	2152.19	2239.68	2104.22	5594.47	1549.60	871.25	491.81	328.29	*******	******** MCM

MOMENTARY PEAK 2920.00 CMS, AT 7.25 M (MSL), AT 18.00 HOURS, ON OCT 10, 1978
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 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.S.

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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1953-1962, 1965-1968, 1972, 1975-1976

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

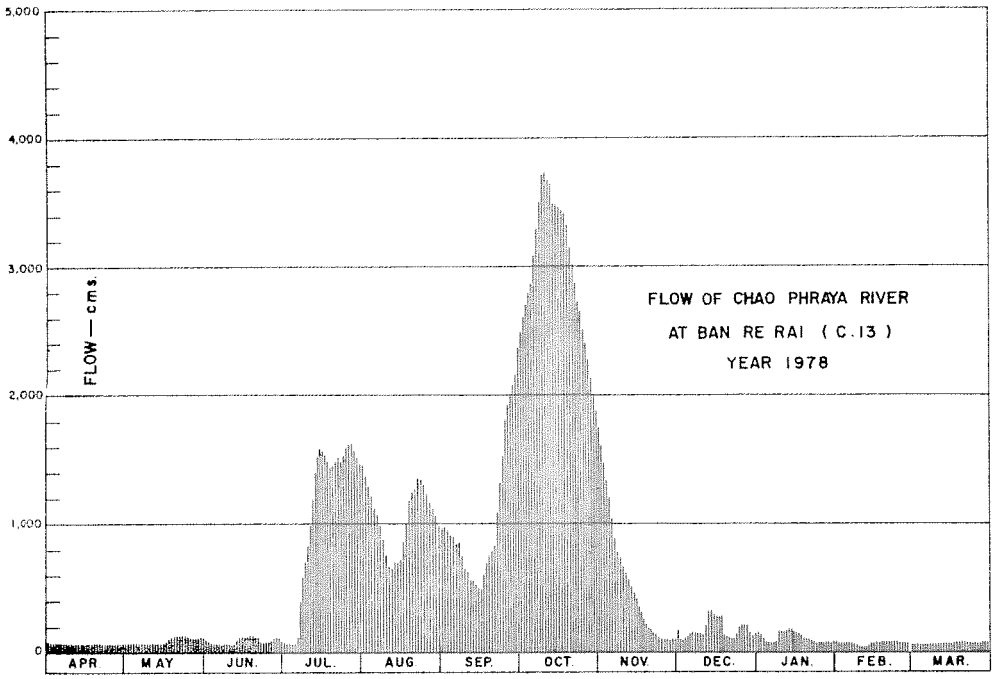
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 11 DISCHARGE MEASUREMENTS MADE IN 1976. 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.92	6.91	7.26	7.03	12.35	11.04	14.56	12.90	7.79	7.72	7.10	6.83	
2	6.92	6.91	7.11	6.98	12.20	11.03	14.76	12.42	7.19	7.64	7.03	6.83	
3	6.92	6.91	7.03	6.97	11.97	10.96	14.91	12.05	7.19	7.43	7.01	6.82	
4	6.92	6.90	6.97	6.96	11.78	10.84	15.05	11.62	7.23	7.23	7.01	6.81	
5	6.92	6.90	6.96	6.96	11.59	10.83	15.12	11.37	7.39	7.09	7.05	6.82	
6	6.93	6.90	6.96	6.96	11.39	10.60	15.33	10.93	7.52	7.04	7.14	6.89	
7	6.93	6.90	6.96	7.39	11.25	10.67	15.55	10.48	7.63	7.03	6.99	6.98	
8	6.93	6.94	6.93	9.03	11.01	10.47	15.81	10.38	7.63	7.04	6.85	6.98	
9	6.93	6.95	6.90	9.78	10.68	10.06	16.04	10.26	7.62	7.34	6.70	6.87	
10	6.93	6.92	6.90	10.29	10.31	9.91	16.18	9.97	7.63	7.66	6.57	6.86	
11	6.94	6.92	6.90	10.56	10.05	9.83	16.19	9.80	7.53	7.70	6.57	6.94	
12	6.94	6.92	6.91	11.09	9.95	9.65	16.13	9.66	8.18	7.73	6.57	7.04	
13	6.98	6.92	7.05	12.03	10.15	9.62	16.08	9.54	8.57	7.87	6.75	7.03	
14	6.94	6.92	7.36	12.46	10.20	9.50	15.94	9.24	8.60	7.87	7.01	7.03	
15	6.94	6.93	7.48	12.67	10.09	9.33	15.92	9.02	8.50	7.74	7.00	6.92	
16	6.94	6.95	7.40	12.63	10.31	9.61	15.91	8.71	8.29	7.69	7.00	6.92	
17	6.93	7.08	7.45	12.62	10.83	9.95	15.88	8.54	8.40	7.64	7.00	6.93	
18	6.93	7.22	7.53	12.47	11.26	10.22	15.84	8.30	8.39	7.51	7.00	6.97	
19	6.93	7.36	7.55	12.35	11.57	10.42	15.77	7.97	7.52	7.35	7.00	7.02	
20	6.92	7.37	7.46	12.30	11.76	10.50	15.63	7.83	7.44	7.25	7.01	7.06	
21	6.92	7.39	7.37	12.39	11.86	10.57	15.43	7.76	7.31	7.22	7.01	7.06	
22	6.92	7.45	7.19	12.49	11.91	11.51	15.23	7.61	7.24	7.22	7.01	6.99	
23	6.92	7.48	7.03	12.56	12.11	12.19	15.04	7.53	7.36	7.11	7.01	6.98	
24	6.92	7.48	7.00	12.43	12.04	12.77	14.88	7.38	7.57	7.09	7.01	7.01	
25	6.91	7.45	7.05	12.58	11.93	13.17	14.68	7.27	7.96	7.02	7.01	7.01	
26	6.91	7.31	7.18	12.72	11.70	13.43	14.42	7.26	8.00	7.02	7.01	7.02	
27	6.91	7.25	7.28	12.76	11.64	13.65	14.24	7.26	8.02	7.01	6.90	7.02	
28	6.91	7.25	7.36	12.76	11.48	13.80	14.03	7.26	7.98	7.01	6.85	7.02	
29	6.91	7.32	7.36	12.65	11.35	13.88	13.77	7.22	7.61	7.01		7.05	
30	6.91	7.39	7.21	12.52	11.15	14.21	13.51	7.22	7.42	7.08		7.05	
31		7.38		12.40	11.02		13.27		7.52	7.17		7.01	
MEAN	6.93	7.13	7.17	10.90	11.25	11.14	15.20	9.16	7.75	7.34	6.93	6.96	
MAX	6.98	7.48	7.55	12.76	12.35	14.21	16.19	12.90	8.60	7.87	7.14	7.06	16.19
MIN	6.91	6.90	6.90	6.96	9.95	9.33	13.27	7.22	7.19	7.01	6.57	6.81	6.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 16.22 M (MSL), AT 7.00 HOURS, ON OCT 11, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 2.80 M (MSL)
LEFT BANK ELEVATION 15.70 M (MSL)
RIGHT BANK ELEVATION 16.00 M (MSL), DRAINAGE AREA 120693 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	73.8	72.9	107.2	83.7	1460.0	977.6	2488.0	1690.0	184.5	174.0	90.0	65.7	
2	73.8	72.9	91.0	79.2	1400.0	974.2	2606.0	1488.0	99.0	162.0	83.7	65.7	
3	73.8	72.9	83.7	78.3	1312.6	950.4	2701.5	1343.0	99.0	130.5	81.9	64.8	
4	73.8	72.0	78.3	77.4	1240.8	909.6	2795.0	1183.2	103.6	103.6	81.9	63.9	
5	73.8	72.0	77.4	77.4	1172.4	906.2	2845.0	1093.2	124.6	89.1	85.5	64.8	
6	74.7	72.0	77.4	77.4	1100.4	832.0	3002.5	940.2	144.0	84.6	94.0	71.1	
7	74.7	72.0	77.4	124.6	1050.0	854.4	3177.5	794.0	160.5	83.7	80.1	79.2	
8	74.7	75.6	74.7	420.3	967.4	791.0	3398.5	764.0	160.5	84.6	67.5	79.2	
9	74.7	76.5	72.0	596.0	857.6	671.8	3601.0	728.4	159.0	117.6	54.0	69.3	
10	74.7	73.8	72.0	737.1	743.0	629.8	3731.0	646.6	160.5	165.0	42.6	68.4	
11	75.6	73.8	72.0	819.2	669.0	608.8	3740.5	601.0	145.5	171.0	42.6	75.6	
12	75.6	73.8	72.9	994.6	641.0	563.5	3683.5	566.0	248.4	175.5	42.6	84.6	
13	79.2	73.8	85.5	1335.4	697.0	556.0	3637.0	536.0	323.7	196.5	58.5	83.7	
14	75.6	73.8	120.4	1504.0	711.0	526.0	3511.0	466.2	330.0	196.5	81.9	83.7	
15	75.6	74.7	138.0	1591.4	680.2	486.9	3493.0	418.2	309.0	177.0	81.0	73.8	
16	75.6	76.5	126.0	1574.6	743.0	553.5	3484.0	353.1	268.2	169.5	81.0	73.8	
17	74.7	88.2	133.5	1570.4	906.2	641.0	3458.0	317.4	289.0	162.0	81.0	74.7	
18	74.7	102.4	145.5	1508.0	1053.6	716.8	3424.0	270.0	285.2	142.5	81.0	78.3	
19	74.7	120.4	148.5	1460.0	1165.2	776.0	3364.5	212.2	144.0	119.0	81.0	82.8	
20	73.8	121.8	135.0	1440.0	1233.6	806.0	3245.5	190.5	132.0	106.0	81.9	86.4	
21	73.8	124.6	121.8	1476.0	1270.8	822.4	3079.0	180.0	113.4	102.4	81.9	86.4	
22	73.8	133.5	99.0	1516.0	1289.8	1143.6	2927.5	157.5	104.8	102.4	81.9	80.1	
23	73.8	138.0	83.7	1545.2	1365.8	1396.2	2788.0	145.5	120.4	91.0	81.9	79.2	
24	73.8	138.0	81.0	1492.0	1339.2	1633.4	2682.0	123.2	151.5	89.1	81.9	81.9	
25	72.9	133.5	85.5	1553.6	1297.4	1808.8	2558.0	108.4	210.6	82.8	81.9	81.9	
26	72.9	113.4	98.0	1612.4	1212.0	1923.8	2411.0	107.2	217.0	82.8	81.9	82.8	
27	72.9	106.0	109.6	1629.2	1190.4	2025.0	2312.0	107.2	220.4	81.9	72.0	82.8	
28	72.9	106.0	120.4	1629.2	1132.8	2094.0	2205.0	107.2	213.8	81.9	67.5	82.8	
29	72.9	114.8	120.4	1583.0	1086.0	2130.8	2080.2	102.4	157.5	81.9		85.5	
30	72.9	124.6	101.2	1528.4	1015.0	2295.5	1960.6	102.4	129.0	88.2		85.5	
31		123.2		1480.0	970.8		1852.8		144.0	97.0		81.9	
TOTAL	2230.2	2967.4	3009.0	33194.0	32974.0	31999.0	92243.1	15842.2	5652.6	3791.6	2104.6	2400.3	228407.8 CMSDAY
MEAN	74.3	95.7	100.3	1070.8	1063.7	1066.6	2975.6	528.1	182.3	122.3	75.2	77.4	625.8 CMS
MAX	79.2	138.0	148.5	1629.2	1460.0	2295.5	3740.5	1690.0	330.0	196.5	94.0	86.4	3740.5 CMS
MIN	72.9	72.0	72.0	77.4	641.0	486.9	1852.8	102.4	99.0	81.9	42.6	63.9	42.6 CMS
RUNOFF	192.69	256.38	259.98	2867.96	2848.95	2764.71	7969.80	1368.76	488.38	327.59	181.84	207.39	19734.43 MCM

MOMENTARY PEAK 3769.00 CMS, AT 16.22 M (MSL), AT 7.00 HOURS, ON OCT 11, 1978

RUNOFF YIELD 5.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 31.23 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHAO PHRAYA RIVER BASIN

CHAO PHRAYA RIVER AT BAN KUM, PHRA NAKHON SI AYUTTHAYA (C.15)

LOCATION — LAT. 14°-25'-35" N., LONG. 100°-29'-11" E., ON LEFT BANK INFRONT OF WAT CHULA MANI 100 METERS UPSTREAM FROM CONFLUENCE WITH KHLONG BANG BAN, AMPHOE BANG BAN, PHRA NAKHON SI AYUTTHAYA.

DRAINAGE AREA — FLOOD PLAIN.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — -0.25 M. (M.S.L.)

BENCH MARK — B.M.-C.15

LOCATION — ON LEFT BANK NORTH OF WAT CHULA MANI.

ELEVATION — +4.301 M. (M.S.L.)

GAGE READING FREQUENCY — 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 — 1955

RATED BY FLOAT — -

RATED BY CURRENT METER — 1955

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

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +3.90 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 287 DISCHARGE MEASUREMENTS MADE IN 1955. FLOW REGULATED BY CHAO PHRAYA DIVERSION DAM AT CHAI NAT.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

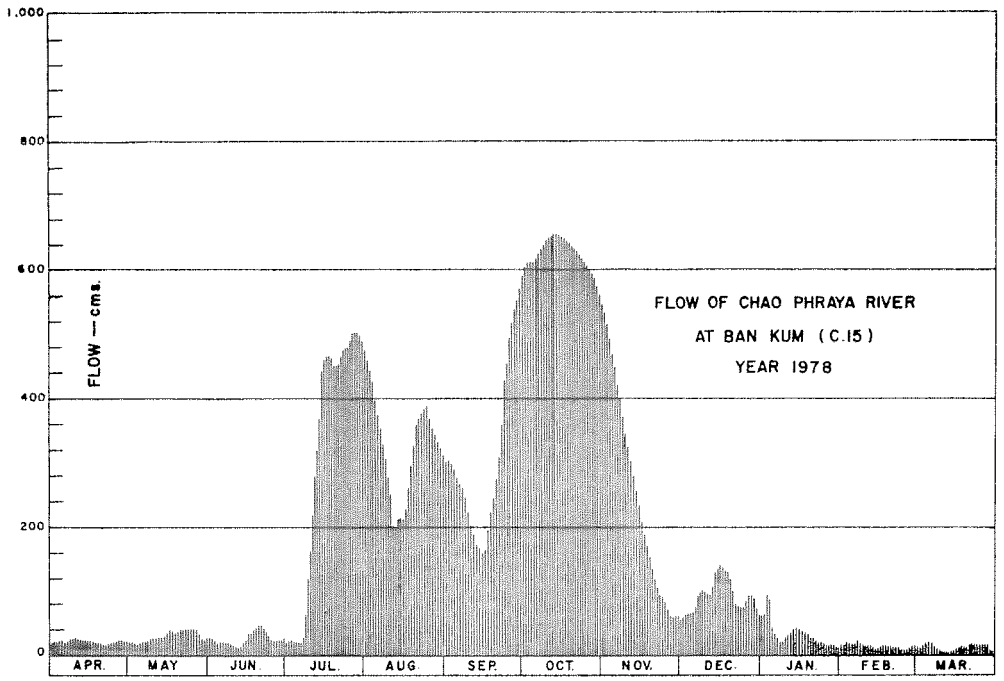
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.25	0.39	0.24	4.39	3.26	5.11	4.83	0.68	0.93	0.25	0.22	
2	0.31	0.26	0.39	0.31	4.32	3.27	5.15	4.72	0.91	0.96	0.21	0.08	
3	0.25	0.23	0.33	0.33	4.23	3.25	5.16	4.60	0.96	1.34	0.29	0.16	
4	0.33	0.16	0.27	0.29	4.06	3.18	5.16	4.46	0.97	1.24	0.26	0.27	
5	0.32	0.22	0.27	0.28	3.92	3.11	5.15	4.32	1.02	0.68	0.26	0.31	
6	0.27	0.23	0.30	0.27	3.73	3.00	5.19	4.18	1.08	0.52	0.32	0.31	
7	0.31	0.25	0.26	0.30	3.60	2.93	5.23	4.00	1.28	0.42	0.36	0.26	
8	0.38	0.35	0.28	0.46	3.42	2.94	5.26	3.79	1.39	0.33	0.34	0.12	
9	0.37	0.36	0.23	1.40	3.23	2.76	5.29	3.71	1.45	0.26	0.29	0.07	
10	0.39	0.35	0.19	2.20	2.95	2.50	5.32	3.51	1.42	0.36	0.23	0.00	
11	0.34	0.38	0.16	2.64	2.68	2.35	5.34	3.34	1.37	0.48	0.12	-0.07	
12	0.34	0.37	0.08	3.00	2.43	2.25	5.35	3.17	1.33	0.54	0.09	-0.07	
13	0.35	0.40	0.13	3.42	2.39	2.15	5.37	3.04	1.55	0.61	0.10	-0.08	
14	0.33	0.43	0.20	3.99	2.53	2.12	5.37	2.89	1.75	0.62	0.03	-0.07	
15	0.31	0.43	0.32	4.24	2.56	2.07	5.35	2.70	1.79	0.64	0.07	0.02	
16	0.29	0.51	0.43	4.35	2.51	2.02	5.35	2.41	1.86	0.62	0.08	0.07	
17	0.25	0.60	0.52	4.38	2.71	2.23	5.34	2.23	1.82	0.59	0.19	0.10	
18	0.22	0.52	0.52	4.38	3.13	2.54	5.31	2.11	1.76	0.59	0.21	0.15	
19	0.19	0.50	0.59	4.35	3.45	2.80	5.31	1.96	1.75	0.51	0.18	0.14	
20	0.22	0.58	0.67	4.29	3.64	3.00	5.28	1.77	1.56	0.40	0.18	0.10	
21	0.17	0.62	0.73	4.29	3.74	3.21	5.26	1.59	1.31	0.41	0.10	0.17	
22	0.19	0.61	0.65	4.35	3.79	3.52	5.24	1.44	1.19	0.35	0.16	0.25	
23	0.24	0.64	0.57	4.44	3.85	3.94	5.20	1.32	1.13	0.25	0.17	0.24	
24	0.22	0.61	0.48	4.45	3.89	4.22	5.19	1.27	1.11	0.34	0.04	0.18	
25	0.24	0.61	0.36	4.46	3.87	4.42	5.16	1.14	1.10	0.31	0.00	0.17	
26	0.28	0.64	0.31	4.54	3.75	4.65	5.13	1.03	1.20	0.28	-0.02	0.16	
27	0.35	0.61	0.33	4.59	3.64	4.80	5.10	0.91	1.31	0.17	0.03	0.13	
28	0.30	0.50	0.33	4.60	3.58	4.87	5.06	0.87	1.34	0.22	0.18	0.18	
29	0.27	0.40	0.34	4.59	3.50	4.96	5.01	0.93	1.29	0.24		0.21	
30	0.28	0.33	0.39	4.52	3.42	5.02	4.96	0.94	1.18	0.21		-0.06	
31		0.35		4.45	3.32		4.90		0.99	0.08		0.06	
MEAN	0.29	0.43	0.37	3.05	3.43	3.24	5.21	2.64	1.32	0.50	0.17	0.12	
MAX	0.39	0.64	0.73	4.60	4.39	5.02	5.37	4.83	1.86	1.34	0.36	0.31	5.37
MIN	0.17	0.16	0.08	0.24	2.39	2.02	4.90	0.87	0.68	0.08	-0.02	-0.08	-0.08

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.37 M (MSL), AT 12.00 HOURS, ON OCT 13, 1978

ZERO GAGE AT BOTTOM ELEVATION -0.25 M (MSL), RIVER BED -3.99 M (MSL)

LEFT BANK ELEVATION 4.79 M (MSL)

RIGHT BANK ELEVATION 4.55 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.6	19.5	27.4	19.0	468.4	303.8	603.1	541.2	45.6	63.4	19.5	18.0	
2	22.6	20.0	27.4	22.6	457.2	305.1	611.5	525.8	61.8	65.8	17.5	12.2	
3	19.5	18.5	23.8	23.8	442.8	302.5	613.6	505.0	65.8	96.2	21.5	15.4	
4	23.8	15.4	20.5	21.5	415.6	293.4	613.6	480.2	66.6	88.2	20.0	20.5	
5	23.2	18.0	20.5	21.0	394.0	284.3	611.5	457.2	70.6	45.6	20.0	22.6	
6	20.5	18.5	22.0	20.5	367.2	270.0	619.9	434.8	75.4	35.2	23.2	22.6	
7	22.6	19.5	20.0	22.0	349.0	261.6	628.3	406.0	91.4	29.2	25.6	20.0	
8	26.8	25.0	21.0	31.6	324.6	262.8	634.6	375.6	100.2	23.8	24.4	13.8	
9	26.2	25.6	18.5	101.0	299.9	241.2	640.9	364.4	105.5	20.0	21.5	11.8	
10	27.4	25.0	16.6	178.0	264.0	211.0	647.4	336.4	102.8	25.6	18.5	9.0	
11	24.4	26.8	15.4	226.8	231.6	194.5	651.8	314.2	98.6	32.8	13.8	6.2	
12	24.4	26.2	12.2	270.0	203.3	183.5	654.0	292.1	95.4	36.4	12.6	6.2	
13	25.0	28.0	14.2	324.6	198.9	172.5	658.4	275.2	114.5	40.7	13.0	5.8	
14	23.8	29.8	17.0	404.5	214.3	169.2	658.4	256.8	132.5	41.4	10.2	6.2	
15	22.6	29.8	23.2	444.4	217.6	164.0	654.0	234.0	136.1	42.8	11.8	9.8	
16	21.5	34.6	29.8	462.0	212.1	159.0	654.0	201.1	143.0	41.4	12.2	11.8	
17	19.5	40.0	35.2	466.8	235.2	181.3	651.8	181.3	139.0	39.4	16.6	13.0	
18	18.0	35.2	35.2	466.8	286.9	215.4	645.2	168.1	133.4	39.4	17.5	15.0	
19	16.6	34.0	39.4	462.0	328.5	246.0	645.2	153.0	132.5	34.6	16.2	14.6	
20	18.0	38.8	44.9	452.4	354.6	270.0	638.8	134.3	115.4	28.0	16.2	13.0	
21	15.8	41.4	49.1	452.4	368.6	297.3	634.6	118.1	93.8	28.6	13.0	15.8	
22	16.6	40.7	43.5	462.0	375.6	337.8	630.4	104.6	84.2	25.0	15.4	19.5	
23	19.0	42.8	38.2	476.8	384.0	397.0	622.0	94.6	79.4	19.5	15.8	19.0	
24	18.0	40.7	32.8	478.5	389.6	441.2	619.9	90.6	77.8	24.4	10.6	16.2	
25	19.0	40.7	25.6	480.2	386.8	473.4	613.6	80.2	77.0	22.6	9.0	15.8	
26	21.0	42.8	22.6	494.2	370.0	514.0	607.3	71.4	85.0	21.0	8.2	15.4	
27	25.0	40.7	23.8	503.2	354.6	537.0	601.0	61.8	93.8	15.8	10.2	14.2	
28	22.0	34.0	23.8	505.0	346.2	546.8	591.0	58.9	96.2	18.0	16.2	16.2	
29	20.5	28.0	24.4	503.2	335.0	566.0	578.5	63.4	92.2	19.0		17.5	
30	21.0	23.8	27.4	490.6	324.6	581.0	566.0	64.2	83.4	17.5		6.6	
31		25.0		478.5	311.6		551.0		68.2	12.2		11.4	
TOTAL	649.9	928.8	795.4	9765.9	10212.3	9382.6	19351.3	7444.5	2957.1	1093.5	450.2	435.1	63466.5 CMSDAY
MEAN	21.7	30.0	26.5	315.0	329.4	312.8	624.2	248.1	95.4	35.3	16.1	14.0	173.9 CMS
MAX	27.4	42.8	49.1	505.0	468.4	581.0	658.4	541.2	143.0	96.2	25.6	22.6	658.4 CMS
MIN	15.8	15.4	12.2	19.0	198.9	159.0	551.0	58.9	45.6	12.2	8.2	5.8	5.8 CMS
RUNOFF	56.15	80.25	68.72	843.77	882.34	810.66	1671.95	643.20	255.49	94.48	38.90	37.59	5483.51 MCM

MOMENTARY PEAK 658.40 CMS, AT 5.37 M (MSL), AT 12.00 HOURS, ON OCT 13, 1978

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

WATER YEAR 1978

CHAO PHRAYA RIVER BASIN

KHLONG BANG KAEO AT BAN IT, ANG THONG (C.28)

LOCATION — LAT. 14°-35'-32" N. LONG. 100°-28'-23" E., ON RIGHT BANK UNDER THE BRIDGE OF KHLONG BANG KAEO, BAN IT, AMPHOE MUANG, ANG THONG.

DRAINAGE AREA — FLOOD PLAIN.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — ON RIGHT BANK UNDER THE BRIDGE.

ELEVATION — +6.686 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 — 1972 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1976-1978

RATED BY FLOAT — -

RATED BY CURRENT METER — 1976-1978

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

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +6.39 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — NO RECORDS DURING APR 1-30 AND AUG 11-16, 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

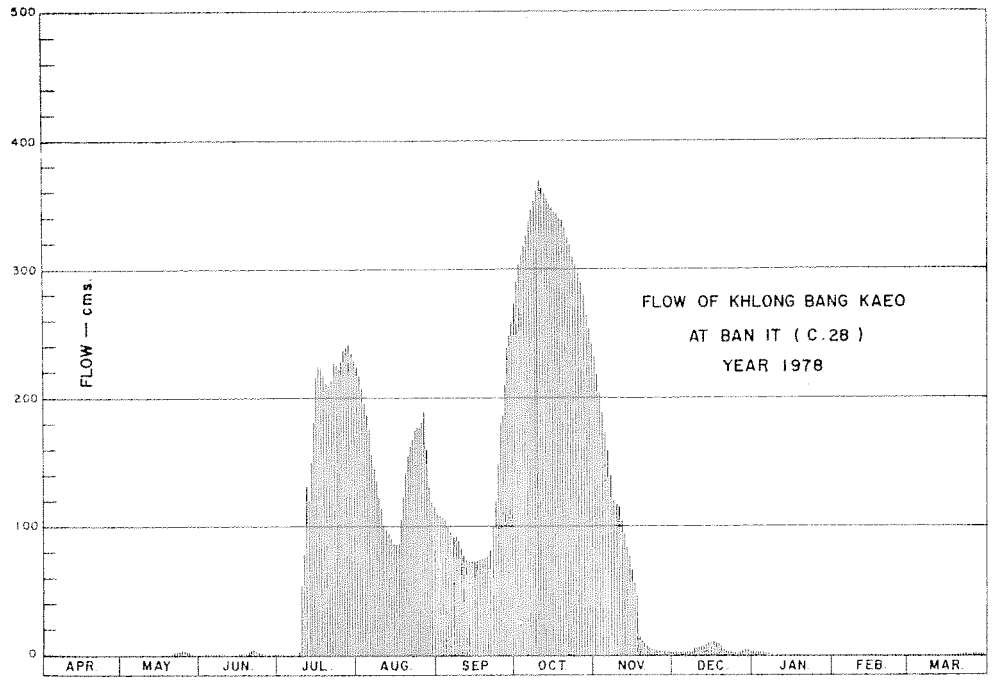
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.90	0.88	0.82	6.36	4.42	6.99	6.36	1.23	1.20	0.75	0.65	
2	0.50	0.86	0.90	0.77	6.20	4.42	7.10	6.17	1.19	1.23	0.78	0.63	
3	0.50	0.80	0.90	0.80	6.02	4.42	7.16	5.98	1.20	1.26	0.82	0.71	
4	0.50	0.74	0.89	0.86	5.82	4.34	7.21	5.73	1.23	1.24	0.81	0.68	
5	0.50	0.70	0.88	0.88	5.65	4.24	7.25	5.51	1.26	1.19	0.78	0.65	
6	0.50	0.73	0.89	0.90	5.39	4.09	7.31	5.29	1.25	1.13	0.81	0.72	
7	0.50	0.77	0.86	0.90	5.24	4.04	7.38	5.02	1.27	1.10	0.79	0.74	
8	0.50	0.78	0.85	0.94	5.04	4.09	7.43	4.73	1.28	1.05	0.76	0.65	
9	0.50	0.90	0.89	1.26	4.80	3.92	7.47	4.65	1.53	0.98	0.73	0.61	
10	0.50	0.83	0.89	3.15	4.50	3.78	7.50	4.63	1.50	0.96	0.68	0.62	
11	0.50	0.90	0.89	3.75	4.30	3.68	7.49	4.31	1.52	0.94	0.65	0.57	
12	0.50	0.78	0.86	4.91	4.25	3.63	7.45	4.10	1.49	0.93	0.69	0.57	
13	0.50	0.80	0.80	4.68	4.13	3.60	7.44	3.97	1.58	0.98	0.67	0.58	
14	0.50	0.94	0.78	5.77	4.03	3.61	7.41	3.71	1.62	0.96	0.72	0.61	
15	0.50	0.77	0.84	6.22	3.98	3.61	7.38	3.40	1.68	0.94	0.75	0.69	
16	0.50	0.90	0.95	6.37	3.98	3.61	7.37	3.17	1.73	0.92	0.76	0.73	
17	0.50	1.04	1.14	6.37	4.00	3.63	7.36	2.90	1.70	0.91	0.78	0.78	
18	0.50	0.95	1.04	6.33	4.57	3.65	7.34	1.89	1.68	0.93	0.82	0.76	
19	0.50	0.82	1.16	6.27	5.08	3.64	7.33	1.76	1.64	0.89	0.81	0.75	
20	0.50	0.99	1.28	6.19	5.38	3.70	7.30	1.63	1.59	0.87	0.78	0.79	
21	0.88	1.15	1.36	6.19	5.51	3.84	7.25	1.52	1.37	0.85	0.75	0.78	
22	0.88	1.16	1.33	6.25	5.59	4.20	7.20	1.47	1.32	0.83	0.71	0.76	
23	0.88	1.20	1.24	6.40	5.68	4.66	7.15	1.42	1.30	0.81	0.68	0.75	
24	0.88	1.24	1.08	6.37	5.75	5.31	7.11	1.38	1.27	0.78	0.65	0.75	
25	0.88	1.24	0.94	6.36	5.73	5.76	7.07	1.34	1.25	0.75	0.61	0.72	
26	0.88	1.22	0.86	6.50	5.88	5.88	7.01	1.31	1.23	0.74	0.57	0.72	
27	0.88	1.20	0.88	6.56	5.46	6.54	6.96	1.28	1.28	0.73	0.56	0.73	
28	0.88	1.08	0.89	6.59	4.96	6.65	6.87	1.27	1.35	0.71	0.62	0.71	
29	0.88	0.96	0.84	6.55	4.71	6.71	6.76	1.25	1.37	0.72		0.71	
30	0.88	0.78	0.87	6.46	4.62	6.83	6.64	1.26	1.29	0.74		0.74	
31		0.90		6.40	4.54		6.56		1.26	0.72		0.82	
MEAN	0.63	0.94	0.96	4.48	5.07	4.48	7.20	3.28	1.40	0.94	0.73	0.70	
MAX	0.88	1.24	1.36	6.59	6.36	6.83	7.50	6.36	1.73	1.26	0.82	0.82	7.50
MIN	0.50	0.70	0.78	0.77	3.98	3.60	6.56	1.25	1.19	0.71	0.57	0.57	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT — 7.51 M (MSL), AT 15.00 HOURS, ON OCT 10, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (MSL), RIVER BED — 0.50 M (MSL)

LEFT BANK ELEVATION — 6.74 M (MSL)

RIGHT BANK ELEVATION — 6.62 M (MSL), DRAINAGE AREA — SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	222.80	108.00	289.60	222.80	2.45	2.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	211.00	108.00	305.00	208.90	1.90	2.45	0.00	0.00	
3	0.00	0.00	0.00	0.00	198.40	108.00	313.40	195.60	2.00	2.90	0.00	0.00	
4	0.00	0.00	0.00	0.00	184.40	104.30	320.60	178.10	2.45	2.60	0.00	0.00	
5	0.00	0.00	0.00	0.00	172.50	99.80	327.00	163.60	2.90	1.90	0.00	0.00	
6	0.00	0.00	0.00	0.00	156.50	93.05	336.70	151.50	2.75	1.30	0.00	0.00	
7	0.00	0.00	0.00	0.00	149.00	90.80	348.60	138.00	3.05	1.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	139.00	93.05	357.40	123.50	3.20	0.50	0.00	0.00	
9	0.00	0.00	0.00	2.90	127.00	85.80	364.60	119.50	7.60	0.00	0.00	0.00	
10	0.00	0.00	0.00	55.00	112.00	80.20	370.00	118.50	7.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	79.00	102.50	76.20	368.20	102.95	7.40	0.00	0.00	0.00	
12	0.00	0.00	0.00	132.50	100.25	74.20	361.00	93.50	6.80	0.00	0.00	0.00	
13	0.00	0.00	0.00	121.00	94.85	73.00	359.20	87.80	8.60	0.00	0.00	0.00	
14	0.00	0.00	0.00	180.90	90.35	73.40	353.80	77.40	9.40	0.00	0.00	0.00	
15	0.00	0.00	0.00	212.40	88.20	73.40	348.60	65.00	10.60	0.00	0.00	0.00	
16	0.00	0.00	0.00	223.60	88.20	73.40	346.90	55.80	11.60	0.00	0.00	0.00	
17	0.00	0.40	1.40	223.60	89.00	74.20	345.20	45.00	11.00	0.00	0.00	0.00	
18	0.00	0.00	0.40	220.40	115.50	75.00	341.80	15.25	10.60	0.00	0.00	0.00	
19	0.00	0.00	1.60	215.90	141.00	74.60	340.10	12.20	9.80	0.00	0.00	0.00	
20	0.00	0.00	3.20	210.30	156.00	77.00	335.00	9.60	8.80	0.00	0.00	0.00	
21	0.00	1.50	4.40	210.30	163.60	82.60	327.00	7.40	4.55	0.00	0.00	0.00	
22	0.00	1.60	3.95	214.50	168.40	98.00	319.00	6.40	3.80	0.00	0.00	0.00	
23	0.00	2.00	2.60	226.00	174.60	120.00	312.00	5.40	3.50	0.00	0.00	0.00	
24	0.00	2.60	0.80	223.60	179.50	152.50	306.40	4.70	3.05	0.00	0.00	0.00	
25	0.00	2.60	0.00	222.80	178.10	180.20	300.80	4.10	2.75	0.00	0.00	0.00	
26	0.00	2.30	0.00	234.00	188.60	188.60	292.40	3.65	2.45	0.00	0.00	0.00	
27	0.00	2.00	0.00	239.40	160.60	237.60	285.40	3.20	3.20	0.00	0.00	0.00	
28	0.00	0.80	0.00	242.10	135.00	248.00	273.10	3.05	4.25	0.00	0.00	0.00	
29	0.00	0.00	0.00	238.50	122.50	254.10	259.60	2.75	4.55	0.00		0.00	
30	0.00	0.00	0.00	230.80	118.00	267.90	247.00	2.90	3.35	0.00		0.00	
31		0.00		226.00	114.00		239.40		2.90	0.00		0.00	
TOTAL	0.00	15.80	18.35	4385.50	4441.35	3544.90	9994.79	2228.05	168.25	14.65	0.00	0.00	24811.62 CMSDAY
MEAN	0.00	0.51	0.61	141.47	143.27	118.16	322.41	74.27	5.43	0.47	0.00	0.00	67.98 CMS
MAX	0.00	2.60	4.40	242.10	222.80	267.90	370.00	222.80	11.60	2.90	0.00	0.00	370.00 CMS
MIN	0.00	0.00	0.00	0.00	88.20	73.00	239.40	2.75	1.90	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	1.365	1.585	378.907	383.732	306.279	863.550	192.503	14.537	1.266	0.000	0.000	2143.724 MCM

MOMENTARY PEAK 371.80 CMS, AT 7.51 M (MSL), AT 15.00 HOURS, ON OCT 10, 1978

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

WATER YEAR 1978

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.S.

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.

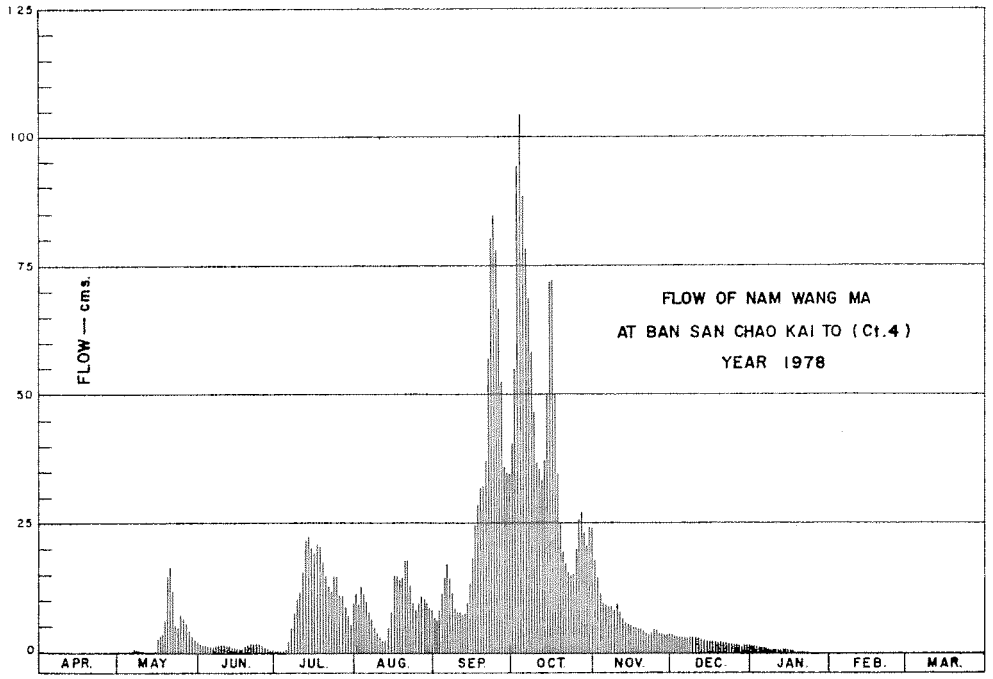
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 122 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.42	-0.38	0.15	-0.14	1.05	0.64	3.11	1.64	0.35	0.06	-0.29	-0.39	
2	-0.41	-0.39	0.09	-0.16	0.92	0.72	4.11	1.39	0.33	0.06	-0.35	-0.39	
3	-0.42	-0.35	0.07	-0.14	1.15	0.94	4.38	1.21	0.32	0.04	-0.29	-0.38	
4	-0.42	-0.34	0.05	-0.07	1.06	1.26	4.21	1.07	0.31	0.03	-0.29	-0.36	
5	-0.41	-0.35	0.05	-0.03	0.95	1.47	4.11	0.94	0.31	0.03	-0.30	-0.36	
6	-0.40	-0.24	-0.01	0.19	0.78	1.24	3.95	0.90	0.38	0.00	-0.30	-0.36	
7	-0.39	-0.08	0.05	0.49	0.62	1.15	3.74	0.86	0.32	-0.02	-0.27	-0.27	
8	-0.38	-0.14	0.06	0.73	0.48	0.93	3.51	0.90	0.32	0.01	-0.27	-0.25	
9	-0.38	-0.20	0.08	0.97	0.40	0.79	3.08	0.83	0.31	-0.03	-0.29	-0.25	
10	-0.37	-0.30	0.07	1.02	0.28	0.79	2.63	0.92	0.28	-0.04	-0.30	-0.24	
11	-0.38	-0.28	0.08	1.24	0.27	0.74	2.55	0.78	0.29	-0.05	-0.32	-0.25	
12	-0.38	-0.28	0.03	1.55	0.17	0.76	2.45	0.65	0.24	-0.04	-0.21	-0.25	
13	-0.24	-0.30	0.01	1.80	0.32	0.91	2.76	0.61	0.22	-0.05	-0.24	-0.25	
14	-0.32	-0.26	-0.03	1.82	0.58	1.16	3.46	0.56	0.23	-0.07	-0.26	-0.33	
15	-0.34	-0.20	-0.04	1.67	0.87	1.67	3.80	0.57	0.22	-0.08	-0.27	-0.35	
16	-0.34	0.26	-0.04	1.62	1.24	1.89	3.81	0.50	0.20	-0.11	-0.30	-0.35	
17	-0.35	0.34	-0.11	1.75	1.32	2.13	3.05	0.50	0.19	-0.11	-0.30	-0.36	
18	-0.35	0.37	-0.04	1.70	1.26	2.36	2.39	0.48	0.20	-0.13	-0.30	-0.37	
19	-0.35	0.69	0.05	1.57	1.33	2.37	1.98	0.45	0.19	-0.15	-0.32	-0.38	
20	-0.35	1.34	0.08	1.34	1.52	2.42	1.69	0.46	0.19	-0.16	-0.33	-0.37	
21	-0.37	1.43	0.14	1.23	1.53	3.15	1.55	0.42	0.15	-0.17	-0.34	-0.37	
22	-0.38	0.96	0.12	1.12	1.27	3.97	1.40	0.38	0.14	-0.20	-0.35	-0.35	
23	-0.41	0.53	0.12	1.30	0.94	4.07	1.33	0.37	0.14	-0.22	-0.35	-0.34	
24	-0.28	0.48	0.11	1.30	0.82	4.01	1.33	0.46	0.12	-0.20	-0.36	-0.27	
25	-0.33	0.73	0.06	1.14	0.90	3.82	1.53	0.37	0.13	-0.22	-0.37	-0.28	
26	-0.35	0.65	0.00	1.03	1.02	3.44	2.05	0.36	0.10	-0.23	-0.37	-0.27	
27	-0.36	0.57	-0.05	1.03	1.03	2.85	2.10	0.38	0.09	-0.21	-0.37	-0.26	
28	-0.35	0.43	-0.11	0.85	0.99	2.55	1.87	0.36	0.06	-0.26	-0.37	-0.28	
29	-0.36	0.28	-0.12	0.71	0.93	2.49	1.72	0.34	0.08	-0.23		-0.28	
30	-0.38	0.22	-0.12	0.55	0.73	2.50	1.94	0.35	0.08	-0.22		-0.32	
31		0.16		0.92	0.71		1.94		0.07	-0.26		-0.34	
MEAN	-0.37	0.17	0.03	0.97	0.89	1.97	2.69	0.67	0.21	-0.10	-0.31	-0.32	
MAX	-0.24	1.43	0.15	1.82	1.53	4.07	4.38	1.64	0.38	0.06	-0.21	-0.24	4.38
MIN	-0.42	-0.39	-0.12	-0.16	0.17	0.64	1.33	0.34	0.06	-0.26	-0.37	-0.39	-0.42

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.57 M (A.D), AT 15.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 4.00 M (A.D)
RIGHT BANK ELEVATION 4.00 M (A.D), DRAINAGE AREA 1382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	2.05	0.44	11.25	6.44	47.83	19.70	3.65	1.46	0.02	0.00	
2	0.00	0.00	1.64	0.36	9.64	7.32	87.05	15.96	3.47	1.46	0.00	0.00	
3	0.00	0.00	1.52	0.44	12.60	9.88	104.48	13.44	3.38	1.34	0.02	0.00	
4	0.00	0.00	1.40	0.75	11.38	14.14	92.64	11.51	3.29	1.28	0.02	0.00	
5	0.00	0.00	1.40	0.95	10.00	17.15	87.05	9.88	3.29	1.28	0.00	0.00	
6	0.00	0.12	1.05	2.33	7.98	13.86	79.30	9.40	3.92	1.10	0.00	0.00	
7	0.00	0.70	1.40	4.91	6.22	12.60	69.22	8.92	3.38	1.00	0.06	0.06	
8	0.00	0.44	1.46	7.43	4.82	9.76	58.90	9.40	3.38	1.16	0.06	0.10	
9	0.00	0.20	1.58	10.24	4.10	8.09	47.16	8.56	3.29	0.95	0.02	0.10	
10	0.00	0.00	1.52	10.86	3.04	8.09	37.53	9.64	3.04	0.90	0.00	0.12	
11	0.00	0.04	1.58	13.86	2.96	7.54	35.90	7.98	3.12	0.85	0.00	0.10	
12	0.00	0.04	1.28	18.35	2.19	7.76	33.90	6.55	2.72	0.90	0.18	0.10	
13	0.12	0.00	1.16	22.20	3.38	9.52	40.26	6.11	2.56	0.85	0.12	0.10	
14	0.00	0.08	0.95	22.54	5.80	12.74	57.18	5.60	2.64	0.75	0.08	0.00	
15	0.00	0.04	0.90	20.15	9.04	20.15	72.10	5.70	2.56	0.70	0.06	0.00	
16	0.00	2.88	0.90	19.40	13.86	23.73	72.58	5.00	2.40	0.56	0.00	0.00	
17	0.00	3.56	0.56	21.40	14.98	27.94	46.50	5.00	2.33	0.56	0.00	0.00	
18	0.00	3.83	0.90	20.60	14.14	32.14	32.71	4.82	2.40	0.48	0.00	0.00	
19	0.00	6.99	1.40	18.65	15.12	32.33	25.26	4.55	2.33	0.40	0.00	0.00	
20	0.00	15.26	1.58	15.26	17.90	33.30	20.45	4.64	2.33	0.36	0.00	0.00	
21	0.00	16.55	1.98	12.72	18.05	48.75	18.35	4.28	2.05	0.32	0.00	0.00	
22	0.00	10.12	1.84	12.18	14.28	80.26	16.10	3.92	1.98	0.20	0.00	0.00	
23	0.00	5.30	1.84	14.70	9.88	85.06	15.12	3.83	1.98	0.16	0.00	0.00	
24	0.04	4.82	1.77	14.70	8.44	82.18	15.12	4.64	1.84	0.20	0.00	0.06	
25	0.00	7.43	1.46	12.46	9.40	73.06	18.05	3.83	1.91	0.16	0.00	0.04	
26	0.00	6.55	1.10	10.99	10.86	56.52	26.50	3.74	1.70	0.14	0.00	0.06	
27	0.00	5.70	0.85	10.99	10.99	42.15	27.40	3.92	1.64	0.18	0.00	0.08	
28	0.00	4.37	0.56	8.80	10.48	35.90	23.39	3.74	1.46	0.08	0.00	0.04	
29	0.00	3.04	0.52	7.21	9.76	34.70	20.92	3.56	1.58	0.14		0.04	
30	0.00	2.56	0.52	5.50	7.43	34.90	24.58	3.65	1.58	0.16		0.00	
31		2.12		9.64	7.21		24.58		1.52	0.08		0.00	
TOTAL	0.16	102.74	38.67	352.01	297.18	887.96	1378.11	211.47	78.72	20.16	0.64	1.00	3368.81 CMSDAY
MEAN	0.01	3.31	1.29	11.36	9.59	29.60	44.46	7.05	2.54	0.65	0.02	0.03	9.23 CMS
MAX	0.12	16.55	2.05	22.54	18.05	85.06	104.48	19.70	3.92	1.46	0.18	0.12	104.48 CMS
MIN	0.00	0.00	0.52	0.36	2.19	6.44	15.12	3.56	1.46	0.08	0.00	0.00	0.00 CMS
RUNOFF	0.014	8.877	3.341	30.414	25.676	76.720	119.068	18.271	6.801	1.742	0.055	0.086	291.065 MCM

MOMENTARY PEAK 121.00 CMS, AT 4.57 M (A.D), AT 15.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 6.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 87.55 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SAKAE KRANG RIVER BASIN

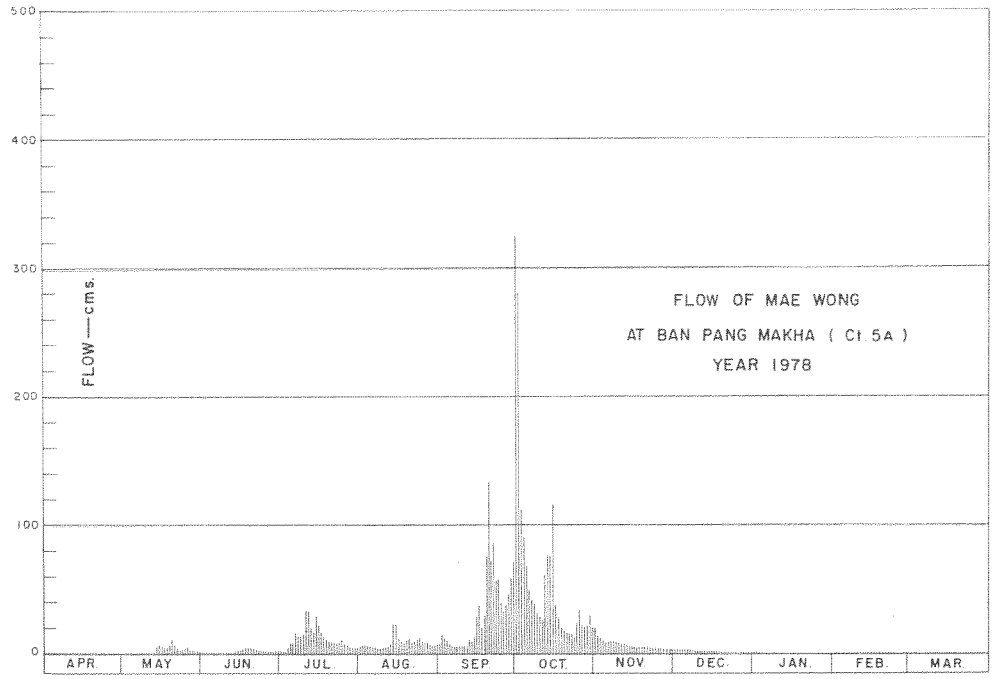
MAE WONG AT BAN PANG MAKHA, KAMPHAENG PHET (CT.5A)

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	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +3.70 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 221 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.38	0.49	0.53	0.78	0.90	4.14	1.16	0.68	0.51	0.44	0.36	
2	0.37	0.38	0.48	0.55	0.84	1.17	3.85	1.09	0.68	0.51	0.44	0.38	
3	0.37	0.38	0.46	0.55	0.86	1.05	2.62	1.02	0.68	0.51	0.44	0.41	
4	0.37	0.38	0.46	0.73	0.84	0.94	2.31	0.98	0.68	0.50	0.42	0.43	
5	0.37	0.38	0.44	0.94	0.80	0.92	2.08	0.94	0.68	0.49	0.42	0.43	
6	0.36	0.38	0.44	0.95	0.76	0.86	1.94	0.95	0.67	0.49	0.42	0.43	
7	0.36	0.38	0.44	1.20	0.74	0.80	1.78	1.02	0.67	0.49	0.41	0.44	
8	0.36	0.38	0.44	1.15	0.73	0.78	1.72	0.98	0.66	0.49	0.41	0.44	
9	0.36	0.38	0.49	1.10	0.73	0.82	1.60	0.94	0.65	0.49	0.41	0.43	
10	0.36	0.38	0.47	1.17	0.75	0.83	1.51	0.91	0.65	0.48	0.41	0.41	
11	0.36	0.43	0.47	1.63	0.80	0.81	1.50	0.89	0.64	0.48	0.41	0.38	
12	0.36	0.40	0.46	1.63	0.86	0.88	2.13	0.86	0.63	0.48	0.41	0.35	
13	0.36	0.41	0.45	1.34	0.88	1.06	2.35	0.86	0.63	0.49	0.40	0.35	
14	0.35	0.71	0.50	1.22	1.40	1.04	2.35	0.84	0.62	0.49	0.40	0.35	
15	0.35	0.87	0.53	1.54	1.35	1.51	2.87	0.82	0.61	0.49	0.40	0.34	
16	0.35	0.79	0.53	1.47	1.11	1.71	1.65	0.80	0.61	0.47	0.40	0.34	
17	0.35	0.77	0.61	1.27	1.01	1.60	1.48	0.80	0.58	0.46	0.40	0.33	
18	0.35	0.69	0.72	1.08	0.95	1.27	1.37	0.79	0.55	0.46	0.40	0.33	
19	0.35	0.80	0.72	1.03	1.02	1.78	1.28	0.78	0.55	0.46	0.38	0.33	
20	0.35	1.00	0.69	0.92	1.06	3.06	1.22	0.77	0.55	0.46	0.38	0.33	
21	0.35	0.77	0.65	0.93	0.94	2.29	1.21	0.76	0.54	0.47	0.38	0.33	
22	0.35	0.68	0.60	0.88	0.91	2.49	1.16	0.75	0.53	0.46	0.38	0.32	
23	0.35	0.64	0.58	0.90	1.01	2.05	1.10	0.74	0.53	0.44	0.38	0.32	
24	0.48	0.60	0.55	0.97	1.08	2.07	1.41	0.73	0.54	0.44	0.38	0.32	
25	0.46	0.69	0.54	1.00	1.03	1.74	1.65	0.73	0.53	0.44	0.37	0.32	
26	0.41	0.75	0.52	0.90	0.96	1.62	1.38	0.72	0.52	0.44	0.36	0.32	
27	0.38	0.63	0.51	0.84	0.95	1.69	1.36	0.71	0.52	0.44	0.36	0.32	
28	0.38	0.58	0.50	0.79	0.90	1.86	1.35	0.71	0.51	0.44	0.36	0.32	
29	0.38	0.56	0.51	0.75	0.85	2.01	1.54	0.70	0.52	0.45		0.32	
30	0.38	0.53	0.55	0.76	0.85	2.29	1.33	0.69	0.52	0.44		0.32	
31		0.50		0.77	0.85		1.32		0.52	0.43		0.32	
MEAN	0.37	0.57	0.53	1.02	0.92	1.46	1.83	0.85	0.60	0.47	0.40	0.36	
MAX	0.48	1.00	0.72	1.63	1.40	3.06	4.14	1.16	0.68	0.51	0.44	0.44	4.14
MIN	0.35	0.38	0.44	0.53	0.73	0.78	1.10	0.69	0.51	0.43	0.36	0.32	0.32

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.93 M (A.D), AT 17.00 HOURS, ON OCT 1, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.50 M (A.D)
LEFT BANK ELEVATION 6.27 M (A.D)
RIGHT BANK ELEVATION 4.30 M (A.D), DRAINAGE AREA 833 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.49	0.56	1.78	2.29	6.04	8.40	324.20	15.12	4.32	2.03	1.18	0.42	
2	0.49	0.56	1.66	2.55	7.20	15.44	249.00	12.94	4.32	2.03	1.18	0.56	
3	0.49	0.56	1.42	2.55	7.60	11.90	112.76	11.12	4.32	2.03	1.18	0.82	
4	0.49	0.56	1.42	5.14	7.20	9.28	73.70	10.16	4.32	1.90	0.94	1.06	
5	0.49	0.56	1.18	9.28	6.40	8.84	58.76	9.28	4.32	1.78	0.94	1.06	
6	0.42	0.56	1.18	9.50	5.68	7.60	50.32	9.50	4.18	1.78	0.94	1.06	
7	0.42	0.56	1.18	16.40	5.32	6.40	41.36	11.12	4.18	1.78	0.82	1.18	
8	0.42	0.56	1.18	14.80	5.14	6.04	38.24	10.16	4.04	1.78	0.82	1.18	
9	0.42	0.56	1.78	13.20	5.14	6.80	32.20	9.28	3.90	1.78	0.82	1.06	
10	0.42	0.56	1.54	15.44	5.50	7.00	27.68	8.62	3.90	1.66	0.82	0.82	
11	0.42	1.06	1.54	33.70	6.40	6.60	27.40	8.20	3.76	1.66	0.82	0.56	
12	0.42	0.70	1.42	33.70	7.60	8.00	61.86	7.60	3.62	1.66	0.82	0.35	
13	0.42	0.82	1.30	21.44	8.00	12.16	76.50	7.60	3.62	1.78	0.70	0.35	
14	0.35	4.78	1.90	17.12	23.60	11.64	76.50	7.20	3.48	1.78	0.70	0.35	
15	0.35	7.80	2.29	29.32	21.80	27.88	117.16	6.80	3.34	1.78	0.70	0.28	
16	0.35	6.22	2.29	26.26	13.52	37.72	34.70	6.40	3.34	1.54	0.70	0.28	
17	0.35	5.86	3.34	18.92	10.86	32.20	26.64	6.40	2.94	1.42	0.70	0.21	
18	0.35	4.46	4.96	12.68	9.50	18.92	22.52	6.22	2.55	1.42	0.70	0.21	
19	0.35	6.40	4.96	11.38	11.12	41.36	19.28	6.04	2.55	1.42	0.56	0.21	
20	0.35	10.60	4.46	8.84	12.16	134.12	17.12	5.86	2.55	1.42	0.56	0.21	
21	0.35	9.86	3.90	9.06	9.28	72.32	16.76	5.68	2.42	1.54	0.56	0.21	
22	0.35	4.32	3.20	8.00	8.62	86.48	15.12	5.50	2.29	1.42	0.56	0.14	
23	0.35	3.76	2.94	8.40	10.86	56.90	13.20	5.32	2.29	1.18	0.56	0.14	
24	1.66	3.20	2.55	9.94	12.68	58.14	23.98	5.14	2.42	1.18	0.56	0.14	
25	1.42	4.46	2.42	10.60	11.38	39.28	34.70	5.14	2.29	1.18	0.49	0.14	
26	0.82	5.50	2.16	8.40	9.72	33.20	22.68	4.96	2.16	1.18	0.42	0.14	
27	0.56	3.62	2.03	7.20	9.50	36.70	22.16	4.78	2.16	1.18	0.42	0.14	
28	0.56	2.94	1.90	6.22	8.40	45.76	21.80	4.78	2.03	1.18	0.42	0.14	
29	0.56	2.68	2.03	5.50	7.40	54.42	29.32	4.60	2.16	1.30		0.14	
30	0.56	2.29	2.55	5.68	7.40	72.32	21.08	4.46	2.16	1.18		0.14	
31		1.90		5.86	7.40		20.72		2.16	1.06		0.14	
TOTAL	15.45	94.83	68.46	389.37	288.42	973.82	1729.82	225.98	98.09	48.01	20.59	13.84	3966.67 CMSDAY
MEAN	0.51	3.06	2.28	12.56	9.30	32.46	55.80	7.53	3.16	1.55	0.74	0.45	10.87 CMS
MAX	1.66	10.60	4.96	33.70	23.60	134.12	324.20	15.12	4.32	2.03	1.18	1.18	324.20 CMS
MIN	0.35	0.56	1.18	2.29	5.14	6.04	13.20	4.46	2.03	1.06	0.42	0.14	0.14 CMS
RUNOFF	1.335	8.193	5.915	33.642	24.919	84.138	149.456	19.525	8.475	4.148	1.779	1.196	342.721 MCM

MOMENTARY PEAK 592.00 CMS, AT 4.93 M (A.D), AT 17.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 13.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 710.68 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — OVERBANK FLOW STARTS AT ELEVATION +4.10 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 127 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW WAS EFFECTED BY THE CONSTRUCTION OF DAM UPSTREAM.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR 1- MAY 19, 1978 AND MAR 11-31, 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

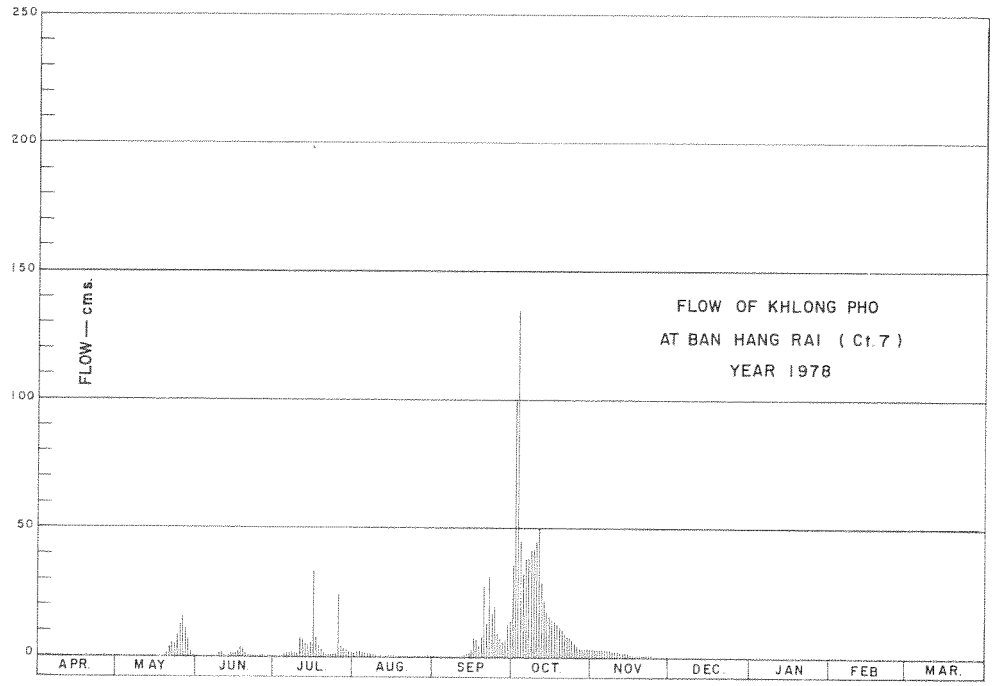
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.12	-0.03	0.30	0.23	0.54	0.28	2.74	0.75	0.34	0.18	0.16	0.05	
2	-0.12	-0.03	0.28	0.24	0.61	0.27	4.07	0.75	0.34	0.18	0.16	0.05	
3	-0.12	-0.03	0.28	0.23	0.66	0.25	4.43	0.74	0.34	0.18	0.17	0.04	
4	-0.11	-0.03	0.29	0.29	0.60	0.24	2.97	0.74	0.32	0.18	0.16	0.03	
5	-0.10	-0.03	0.28	0.41	0.55	0.23	2.63	0.75	0.32	0.18	0.15	0.03	
6	-0.10	-0.02	0.28	0.59	0.50	0.22	2.81	0.74	0.32	0.18	0.15	0.03	
7	-0.10	-0.02	0.25	0.62	0.45	0.21	2.81	0.73	0.32	0.18	0.14	0.02	
8	-0.09	-0.02	0.27	0.56	0.41	0.20	2.90	0.72	0.31	0.18	0.14	0.02	
9	-0.09	-0.02	0.38	0.52	0.35	0.20	2.89	0.72	0.31	0.17	0.13	0.01	
10	-0.09	-0.02	0.60	0.59	0.35	0.19	2.93	0.71	0.30	0.17	0.12	0.00	
11	-0.09	-0.02	0.45	1.25	0.34	0.20	3.09	0.70	0.30	0.17	0.12	0.00	
12	-0.09	-0.02	0.37	1.19	0.32	0.33	2.54	0.67	0.30	0.17	0.11	0.00	
13	-0.09	-0.02	0.34	0.99	0.33	0.53	2.40	0.64	0.29	0.17	0.11	-0.01	
14	-0.09	-0.02	0.37	0.93	0.37	0.69	1.99	0.61	0.29	0.17	0.10	-0.01	
15	-0.08	-0.01	0.56	1.11	0.35	0.77	1.89	0.58	0.28	0.17	0.10	-0.01	
16	-0.08	-0.01	0.43	2.66	0.35	1.27	1.85	0.54	0.28	0.17	0.09	-0.02	
17	-0.08	-0.01	0.65	1.24	0.34	1.24	1.70	0.52	0.27	0.16	0.09	-0.02	
18	-0.07	0.00	0.90	0.89	0.34	0.93	1.66	0.49	0.27	0.16	0.08	-0.02	
19	-0.07	0.00	0.80	0.79	0.34	1.30	1.59	0.47	0.26	0.16	0.08	-0.03	
20	-0.07	0.45	0.58	0.61	0.34	2.45	1.49	0.44	0.26	0.16	0.07	-0.03	
21	-0.06	0.74	0.38	0.41	0.33	1.77	1.39	0.43	0.25	0.16	0.07	-0.03	
22	-0.06	1.05	0.35	0.42	0.33	2.58	1.30	0.43	0.25	0.16	0.06	-0.04	
23	-0.06	0.98	0.32	0.44	0.33	1.92	1.20	0.42	0.24	0.16	0.06	-0.04	
24	-0.06	1.26	0.31	0.54	0.32	2.10	1.10	0.38	0.24	0.16	0.06	-0.04	
25	-0.05	1.59	0.35	0.47	0.32	1.42	1.00	0.37	0.23	0.16	0.06	-0.04	
26	-0.05	1.86	0.30	2.34	0.32	1.18	0.89	0.37	0.22	0.16	0.06	-0.05	
27	-0.05	1.59	0.29	0.91	0.32	1.09	0.85	0.37	0.21	0.16	0.05	-0.05	
28	-0.04	1.30	0.27	0.83	0.32	1.22	0.85	0.36	0.20	0.16	0.05	-0.06	
29	-0.04	0.80	0.24	0.76	0.31	1.68	0.83	0.36	0.20	0.16		-0.06	
30	-0.04	0.41	0.24	0.65	0.31	1.80	0.80	0.35	0.19	0.16		-0.07	
31		0.35		0.59	0.31		0.76		0.18	0.16		-0.07	
MEAN	-0.08	0.39	0.39	0.78	0.39	0.96	2.01	0.56	0.27	0.17	0.10	-0.01	
MAX	-0.04	1.86	0.90	2.66	0.66	2.58	4.43	0.75	0.34	0.18	0.17	0.05	4.43
MIN	-0.12	-0.03	0.24	0.23	0.31	0.19	0.76	0.35	0.18	0.16	0.05	-0.07	-0.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.80 M (A.D), AT 1.00 HOURS, ON OCT 3, 1978

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

LEFT BANK ELEVATION 4.39 M (A.D)

RIGHT BANK ELEVATION 5.20 M (A.D), DRAINAGE AREA 398 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.60	0.39	1.64	0.54	36.40	3.10	0.76	0.26	0.22	0.05	
2	0.00	0.00	0.54	0.42	2.07	0.51	106.60	3.10	0.76	0.26	0.22	0.05	
3	0.00	0.00	0.54	0.39	2.42	0.45	135.56	3.02	0.76	0.26	0.24	0.04	
4	0.00	0.00	0.57	0.57	2.00	0.42	45.30	3.02	0.68	0.26	0.22	0.03	
5	0.00	0.00	0.54	1.04	1.70	0.39	32.76	3.10	0.68	0.26	0.20	0.03	
6	0.00	0.00	0.54	1.94	1.40	0.36	38.90	3.02	0.68	0.26	0.20	0.03	
7	0.00	0.00	0.45	2.14	1.20	0.33	38.90	2.94	0.68	0.26	0.18	0.02	
8	0.00	0.00	0.51	1.76	1.04	0.30	42.50	2.86	0.64	0.26	0.18	0.02	
9	0.00	0.00	0.92	1.52	0.80	0.30	42.10	2.86	0.64	0.24	0.16	0.01	
10	0.00	0.00	2.00	1.94	0.80	0.28	43.70	2.78	0.60	0.24	0.14	0.00	
11	0.00	0.00	1.20	7.75	0.76	0.30	50.37	2.70	0.60	0.24	0.14	0.00	
12	0.00	0.00	0.88	7.10	0.68	0.72	30.06	2.49	0.60	0.24	0.12	0.00	
13	0.00	0.00	0.76	5.21	0.72	1.58	26.30	2.28	0.57	0.24	0.12	0.00	
14	0.00	0.00	0.88	4.67	0.88	2.63	17.83	2.07	0.57	0.24	0.10	0.00	
15	0.00	0.00	1.76	6.30	0.80	3.26	16.14	1.88	0.54	0.24	0.10	0.00	
16	0.00	0.00	1.12	33.72	0.80	7.97	15.50	1.64	0.54	0.24	0.09	0.00	
17	0.00	0.00	2.35	7.64	0.76	7.64	13.30	1.52	0.51	0.22	0.09	0.00	
18	0.00	0.00	4.40	4.31	0.76	4.67	12.74	1.36	0.51	0.22	0.08	0.00	
19	0.00	0.00	3.50	3.42	0.76	8.30	11.78	1.28	0.48	0.22	0.08	0.00	
20	0.00	1.20	1.88	2.07	0.76	27.60	10.58	1.16	0.48	0.22	0.07	0.00	
21	0.00	3.02	0.92	1.04	0.72	14.28	9.38	1.12	0.45	0.22	0.07	0.00	
22	0.00	5.75	0.80	1.08	0.72	31.22	8.30	1.12	0.45	0.22	0.06	0.00	
23	0.00	5.12	0.68	1.16	0.72	16.64	7.20	1.08	0.42	0.22	0.06	0.00	
24	0.00	7.86	0.64	1.64	0.68	19.80	6.20	0.92	0.42	0.22	0.06	0.00	
25	0.00	11.78	0.80	1.28	0.68	9.74	5.30	0.88	0.39	0.22	0.06	0.00	
26	0.00	15.66	0.60	24.92	0.68	7.00	4.31	0.88	0.36	0.22	0.06	0.00	
27	0.00	11.78	0.57	4.49	0.68	6.11	3.95	0.88	0.33	0.22	0.05	0.00	
28	0.00	8.30	0.51	3.77	0.68	7.42	3.95	0.84	0.30	0.22	0.05	0.00	
29	0.00	3.50	0.42	3.18	0.64	13.02	3.77	0.84	0.30	0.22		0.00	
30	0.00	1.04	0.42	2.35	0.64	14.70	3.50	0.80	0.28	0.22		0.00	
31		0.80		1.94	0.64		3.18		0.26	0.22		0.00	
TOTAL	0.00	75.81	32.30	141.15	30.23	208.48	826.36	57.54	16.24	7.30	3.42	0.28	1399.11 CMSDAY
MEAN	0.00	2.45	1.08	4.55	0.98	6.95	26.66	1.92	0.52	0.24	0.12	0.01	3.83 CMS
MAX	0.00	15.66	4.40	33.72	2.42	31.22	135.56	3.10	0.76	0.26	0.24	0.05	135.56 CMS
MIN	0.00	0.00	0.42	0.39	0.64	0.28	3.18	0.80	0.26	0.22	0.05	0.00	0.00 CMS
RUNOFF	0.000	6.550	2.791	12.195	2.612	18.013	71.397	4.971	1.403	0.631	0.295	0.024	120.883 MCM

MOMENTARY PEAK 171.40 CMS, AT 4.80 M (A.D), AT 1.00 HOURS, ON OCT 3, 1978

RUNOFF YIELD 9.63 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 430.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SAKAE KRANG RIVER BASIN

MAE WONG AT BAN KHOK MO, UTHAI THANI (CT.8)

LOCATION — LAT 15°-29'-50" N., LONG. 99°-56'-28" E., ON LEFT BANK OF MAE WONG AT BAN KHOK MO. AMPHOE THAP THAN, UTHAI THANI.

DRAINAGE AREA — 3,256 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — ABOUT 7 METERS FROM GAGE SITE.

ELEVATION — +5.785 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.90 M. (A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 97 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — DISCHARGE RECORD FOR PERIODS OF NO FLOW ARE OMITTED.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

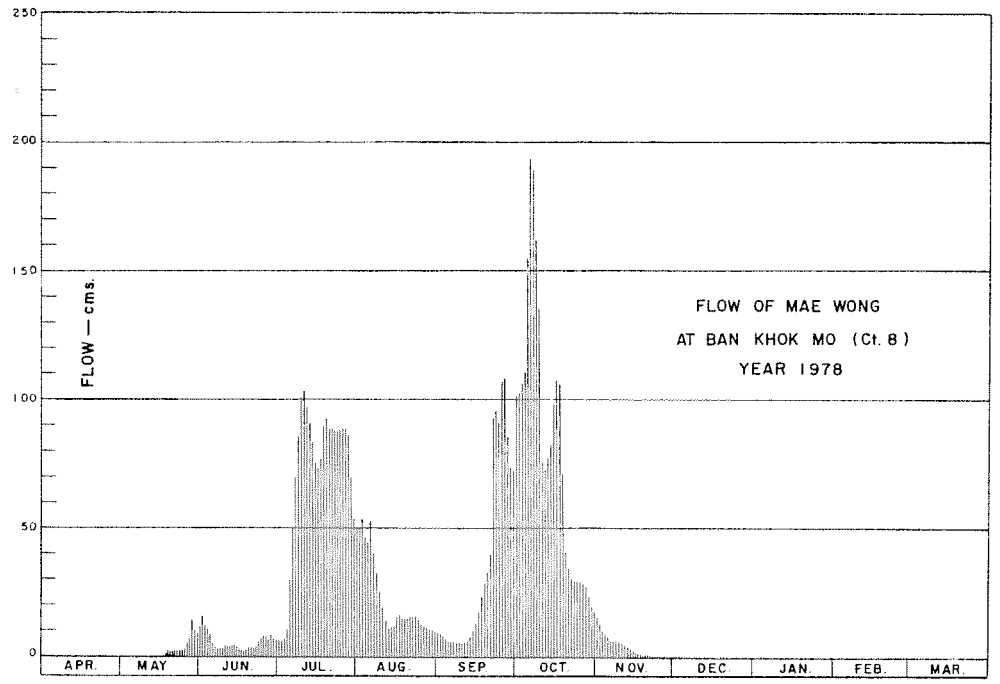
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.13	1.53	0.99	2.75	1.18	4.08	1.51	0.41	0.38	0.22	0.20	
2	0.07	0.13	1.40	0.99	2.87	1.12	4.10	1.41	0.40	0.38	0.21	0.20	
3	0.07	0.13	1.27	0.98	2.73	1.09	4.19	1.31	0.39	0.38	0.21	0.20	
4	0.08	0.13	1.14	1.06	2.61	1.00	4.48	1.22	0.39	0.39	0.21	0.19	
5	0.08	0.13	1.01	1.57	2.85	0.94	5.12	1.13	0.39	0.39	0.21	0.19	
6	0.08	0.13	0.82	2.26	2.61	0.94	5.76	1.05	0.40	0.39	0.21	0.19	
7	0.09	0.13	0.75	3.16	2.40	0.94	5.69	1.01	0.40	0.39	0.21	0.18	
8	0.09	0.14	0.71	3.61	2.18	0.93	5.44	1.01	0.40	0.39	0.21	0.18	
9	0.09	0.14	0.71	3.85	1.97	0.93	4.70	0.98	0.40	0.38	0.20	0.18	
10	0.09	0.14	0.82	4.05	1.72	0.93	3.85	0.95	0.40	0.35	0.20	0.17	
11	0.10	0.14	0.79	4.11	1.53	0.94	3.45	0.90	0.40	0.31	0.20	0.16	
12	0.10	0.14	0.79	3.97	1.35	0.99	3.37	0.85	0.41	0.27	0.20	0.16	
13	0.10	0.14	0.84	3.80	1.24	1.05	3.50	0.79	0.42	0.23	0.20	0.16	
14	0.10	0.14	0.85	3.60	1.30	1.18	3.64	0.76	0.42	0.23	0.20	0.15	
15	0.10	0.15	0.72	3.46	1.33	1.34	3.97	0.72	0.41	0.23	0.20	0.15	
16	0.10	0.15	0.64	3.39	1.53	1.53	4.23	0.66	0.41	0.23	0.20	0.15	
17	0.11	0.15	0.61	3.49	1.54	1.74	4.19	0.65	0.41	0.23	0.20	0.14	
18	0.11	0.47	0.60	3.79	1.48	2.00	3.68	0.58	0.40	0.23	0.20	0.14	
19	0.11	0.64	0.76	3.88	1.49	2.18	3.04	0.56	0.40	0.23	0.20	0.13	
20	0.11	0.60	0.76	3.80	1.50	2.28	2.59	0.52	0.40	0.23	0.20	0.13	
21	0.11	0.62	0.77	3.78	1.50	2.50	2.29	0.51	0.39	0.23	0.20	0.13	
22	0.11	0.64	0.76	3.77	1.52	3.87	2.15	0.50	0.39	0.22	0.20	0.13	
23	0.11	0.63	0.90	3.76	1.55	3.94	2.12	0.49	0.39	0.22	0.20	0.13	
24	0.11	0.62	1.02	3.76	1.48	3.82	2.09	0.48	0.38	0.22	0.20	0.12	
25	0.11	0.65	1.12	3.78	1.40	4.13	2.10	0.48	0.38	0.22	0.20	0.12	
26	0.11	0.84	1.11	3.78	1.36	4.20	2.06	0.47	0.38	0.22	0.20	0.12	
27	0.12	1.04	1.00	3.78	1.31	3.99	2.08	0.46	0.38	0.22	0.20	0.12	
28	0.12	1.45	1.08	3.70	1.29	3.46	1.98	0.45	0.38	0.22	0.20	0.11	
29	0.12	1.36	1.04	3.30	1.24	3.40	1.87	0.44	0.38	0.22		0.11	
30	0.12	1.19	0.99	2.95	1.29	3.40	1.70	0.43	0.38	0.22		0.11	
31		1.17		2.77	1.19		1.61		0.38	0.22		0.11	
MEAN	0.10	0.46	0.91	3.19	1.75	2.06	3.39	0.78	0.40	0.28	0.20	0.15	
MAX	0.12	1.45	1.53	4.11	2.87	4.20	5.76	1.51	0.42	0.39	0.22	0.20	5.76
MIN	0.07	0.13	0.60	0.98	1.19	0.93	1.61	0.43	0.38	0.22	0.20	0.11	0.07

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.80 M (A.D), AT 15.00 HOURS, ON OCT 6, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -3.50 M (A.D)

LEFT BANK ELEVATION — 5.55 M (A.D)

RIGHT BANK ELEVATION — 5.60 M (A.D), DRAINAGE AREA 3256 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	16.00	6.67	49.65	9.88	102.32	15.60	0.65	0.52	0.12	0.10	
2	0.00	0.00	13.50	6.67	53.81	8.72	103.20	13.69	0.60	0.52	0.11	0.10	
3	0.00	0.00	11.19	6.54	49.19	8.24	107.16	11.88	0.56	0.52	0.11	0.10	
4	0.00	0.00	9.04	7.76	45.23	6.80	121.00	10.34	0.56	0.56	0.11	0.08	
5	0.00	0.00	6.96	16.80	53.15	6.02	155.18	8.88	0.56	0.56	0.11	0.08	
6	0.00	0.00	4.46	34.54	45.23	6.02	194.08	7.60	0.60	0.56	0.11	0.08	
7	0.00	0.00	3.60	64.34	38.77	6.02	189.67	6.96	0.60	0.56	0.11	0.06	
8	0.00	0.00	3.12	82.31	32.24	5.89	174.14	6.96	0.60	0.56	0.11	0.06	
9	0.00	0.00	3.12	92.25	26.49	5.89	132.30	6.54	0.60	0.52	0.10	0.06	
10	0.00	0.00	4.46	101.00	20.08	5.89	92.25	6.15	0.60	0.40	0.10	0.04	
11	0.00	0.00	4.08	103.64	16.00	6.02	75.90	5.50	0.60	0.24	0.10	0.02	
12	0.00	0.00	4.08	97.48	12.60	6.67	72.70	4.85	0.65	0.17	0.10	0.02	
13	0.00	0.00	4.72	90.10	10.68	7.60	77.90	4.08	0.70	0.13	0.10	0.02	
14	0.00	0.00	4.85	81.90	11.70	9.68	83.54	3.72	0.70	0.13	0.10	0.00	
15	0.00	0.00	3.24	76.30	12.24	12.42	97.48	3.24	0.65	0.13	0.10	0.00	
16	0.00	0.00	2.40	73.50	16.00	16.00	108.98	2.60	0.65	0.13	0.10	0.00	
17	0.00	0.00	2.10	77.50	16.20	20.56	107.16	2.50	0.65	0.13	0.10	0.00	
18	0.00	0.95	2.00	89.69	15.02	27.30	85.18	1.82	0.60	0.13	0.10	0.00	
19	0.00	2.40	3.72	93.54	15.21	32.24	59.78	1.64	0.60	0.13	0.10	0.00	
20	0.00	2.00	3.72	90.10	15.40	35.12	44.59	1.28	0.60	0.13	0.10	0.00	
21	0.00	2.20	3.84	89.28	15.40	41.83	35.41	1.19	0.56	0.13	0.10	0.00	
22	0.00	2.40	3.72	88.87	15.80	93.11	31.40	1.10	0.56	0.12	0.10	0.00	
23	0.00	2.30	5.50	88.46	16.40	96.16	30.56	1.05	0.56	0.12	0.10	0.00	
24	0.00	2.20	7.12	88.46	15.02	90.96	29.73	1.00	0.52	0.12	0.10	0.00	
25	0.00	2.50	8.72	89.28	13.50	104.52	30.00	1.00	0.52	0.12	0.10	0.00	
26	0.00	4.72	8.56	89.28	12.78	107.60	28.92	0.95	0.52	0.12	0.10	0.00	
27	0.00	7.44	6.80	89.28	11.88	98.36	29.46	0.90	0.52	0.12	0.10	0.00	
28	0.00	14.45	8.08	86.00	11.53	76.30	26.76	0.85	0.52	0.12	0.10	0.00	
29	0.00	12.78	7.44	69.90	10.68	73.90	23.82	0.80	0.52	0.12		0.00	
30	0.00	9.84	6.67	56.55	11.53	73.90	19.60	0.75	0.52	0.12		0.00	
31		9.52		50.51	9.84		17.62		0.52	0.12		0.00	
TOTAL	0.00	75.70	176.81	2179.50	699.45	1099.42	2487.79	135.42	18.17	8.06	2.89	0.82	6883.02 CMSDAY
MEAN	0.00	2.44	5.89	70.27	22.56	36.65	80.25	4.51	0.59	0.26	0.10	0.03	18.86 CMS
MAX	0.00	14.45	16.00	103.64	53.81	107.60	194.08	15.60	0.70	0.56	0.12	0.10	194.08 CMS
MIN	0.00	0.00	2.00	6.54	9.84	5.89	17.62	0.75	0.52	0.12	0.10	0.00	0.00 CMS
RUNOFF	0.000	6.540	15.276	188.222	60.432	94.990	214.945	11.700	1.570	0.696	0.250	0.071	594.693 MCM

MOMENTARY PEAK 196.60 CMS, AT 5.80 M (A.D), AT 15.00 HOURS, ON OCT 6, 1978

RUNOFF YIELD 5.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 60.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

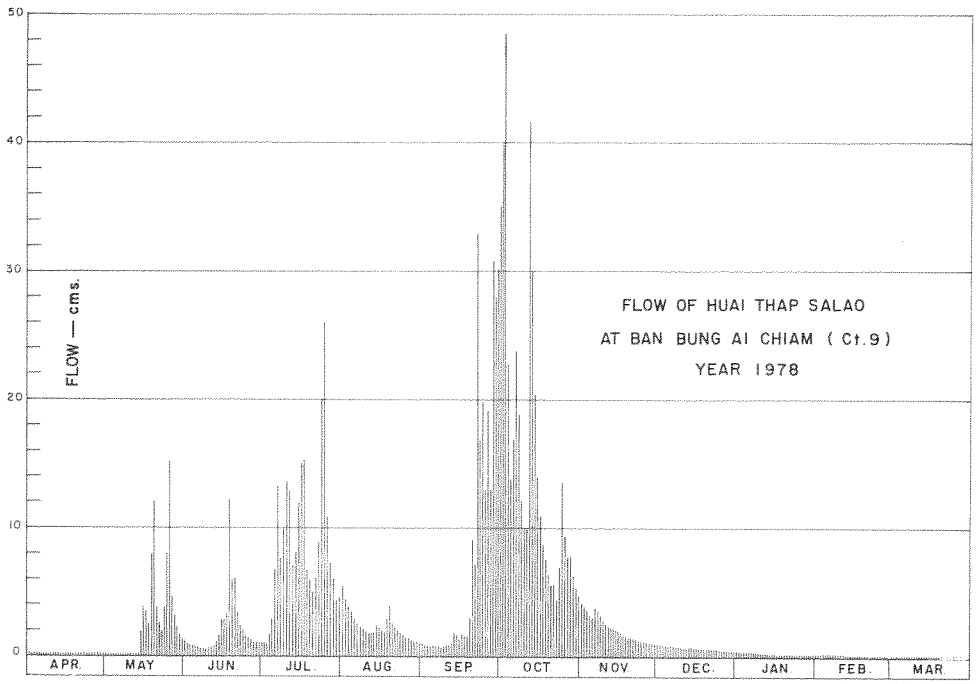
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 158 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.41	0.68	0.68	1.25	0.69	2.83	1.14	0.69	0.53	0.46	0.42	
2	0.40	0.41	0.64	0.66	1.15	0.67	3.21	1.10	0.68	0.53	0.46	0.42	
3	0.40	0.41	0.62	0.64	1.09	0.66	2.39	1.07	0.67	0.53	0.46	0.41	
4	0.40	0.41	0.61	0.82	1.06	0.65	2.07	1.03	0.66	0.52	0.46	0.41	
5	0.40	0.41	0.59	1.11	1.00	0.65	1.83	1.00	0.65	0.52	0.46	0.41	
6	0.40	0.41	0.58	1.77	0.96	0.65	1.97	1.00	0.65	0.52	0.46	0.41	
7	0.40	0.41	0.57	1.68	0.92	0.63	2.28	1.09	0.64	0.51	0.45	0.41	
8	0.40	0.41	0.56	1.42	0.90	0.62	1.96	1.06	0.64	0.51	0.45	0.41	
9	0.40	0.41	0.57	1.66	0.87	0.61	1.73	1.00	0.63	0.51	0.45	0.41	
10	0.40	0.41	0.55	1.79	0.84	0.65	1.60	0.96	0.63	0.50	0.45	0.41	
11	0.40	0.41	0.60	1.78	0.83	0.67	1.59	0.93	0.63	0.51	0.45	0.41	
12	0.40	0.41	0.63	1.56	0.83	0.71	2.97	0.91	0.62	0.50	0.46	0.41	
13	0.40	0.42	0.73	1.37	0.84	0.83	2.46	0.91	0.62	0.50	0.46	0.40	
14	0.40	0.43	0.82	1.52	0.93	0.83	2.08	0.89	0.61	0.50	0.45	0.40	
15	0.40	1.08	0.98	1.86	0.90	0.77	1.82	0.86	0.60	0.49	0.45	0.40	
16	0.40	1.06	0.97	1.87	0.86	0.84	1.63	0.85	0.59	0.49	0.45	0.40	
17	0.40	0.98	1.02	1.50	0.83	0.82	1.52	0.83	0.59	0.49	0.45	0.40	
18	0.40	0.92	1.71	1.34	0.94	0.78	1.41	0.82	0.59	0.48	0.45	0.40	
19	0.40	1.69	1.29	1.30	1.10	0.98	1.33	0.80	0.58	0.48	0.45	0.40	
20	0.40	1.21	1.30	1.19	1.00	1.52	1.26	0.79	0.58	0.48	0.45	0.40	
21	0.40	1.01	1.07	1.29	0.93	1.38	1.26	0.79	0.57	0.48	0.44	0.40	
22	0.40	0.89	0.96	1.47	0.88	2.65	1.18	0.77	0.57	0.48	0.43	0.40	
23	0.40	0.83	0.87	1.76	0.85	1.95	1.14	0.76	0.57	0.48	0.43	0.40	
24	0.41	1.22	0.83	2.37	0.82	2.10	1.50	0.75	0.57	0.48	0.43	0.40	
25	0.41	1.86	0.80	1.72	0.80	1.76	1.79	0.74	0.56	0.47	0.43	0.40	
26	0.41	1.21	0.76	1.63	0.78	2.07	1.55	0.73	0.55	0.47	0.43	0.40	
27	0.41	1.03	0.71	1.40	0.77	1.79	1.44	0.72	0.55	0.47	0.43	0.40	
28	0.41	0.94	0.69	1.29	0.75	2.57	1.44	0.71	0.55	0.47	0.43	0.40	
29	0.41	0.85	0.69	1.21	0.73	2.47	1.33	0.70	0.55	0.46		0.40	
30	0.41	0.78	0.67	1.14	0.71	2.56	1.24	0.69	0.54	0.46		0.40	
31		0.72		1.15	0.70		1.17		0.54	0.46		0.40	
MEAN	0.40	0.78	0.80	1.42	0.90	1.22	1.77	0.88	0.60	0.49	0.45	0.40	
MAX	0.41	1.86	1.71	2.37	1.25	2.65	3.21	1.14	0.69	0.53	0.46	0.42	3.21
MIN	0.40	0.41	0.55	0.64	0.70	0.61	1.14	0.69	0.54	0.46	0.43	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.52 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.29 M (A.D)
LEFT BANK ELEVATION 3.68 M (A.D)
RIGHT BANK ELEVATION 4.86 M (A.D), DRAINAGE AREA 389 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.12	1.02	1.02	5.55	1.06	37.54	4.40	1.06	0.42	0.22	0.14	
2	0.10	0.12	0.86	0.94	4.50	0.98	48.42	4.00	1.02	0.42	0.22	0.14	
3	0.10	0.12	0.78	0.86	3.91	0.94	26.46	3.73	0.98	0.42	0.22	0.12	
4	0.10	0.12	0.74	1.74	3.64	0.90	19.27	3.37	0.94	0.38	0.22	0.12	
5	0.10	0.12	0.66	4.10	3.10	0.94	14.47	3.10	0.90	0.38	0.22	0.12	
6	0.10	0.12	0.62	13.36	2.78	0.90	17.20	3.10	0.90	0.38	0.22	0.12	
7	0.10	0.12	0.58	11.74	2.46	0.82	23.84	3.91	0.86	0.34	0.20	0.12	
8	0.10	0.12	0.54	7.58	2.30	0.78	17.00	3.64	0.86	0.34	0.20	0.12	
9	0.10	0.12	0.58	11.38	2.09	0.74	12.64	3.10	0.82	0.34	0.20	0.12	
10	0.10	0.12	0.50	13.72	1.98	0.90	10.30	2.78	0.82	0.30	0.20	0.12	
11	0.10	0.12	0.70	13.54	1.81	0.98	10.14	2.54	0.82	0.34	0.20	0.12	
12	0.10	0.12	0.82	9.66	1.81	1.15	41.46	2.38	0.78	0.30	0.22	0.12	
13	0.10	0.14	1.25	6.94	1.88	1.81	28.14	2.38	0.78	0.30	0.22	0.10	
14	0.10	0.16	1.74	9.02	2.54	1.81	19.48	2.23	0.74	0.30	0.20	0.10	
15	0.10	3.82	2.94	15.04	2.30	1.45	14.28	2.02	0.70	0.28	0.20	0.10	
16	0.10	3.64	2.86	15.23	2.02	1.88	10.84	1.95	0.66	0.28	0.20	0.10	
17	0.10	2.94	3.28	8.70	1.81	1.74	9.02	1.81	0.66	0.28	0.20	0.10	
18	0.10	2.46	12.28	6.58	2.62	1.50	7.44	1.74	0.66	0.26	0.20	0.10	
19	0.10	11.92	5.99	6.10	4.00	2.94	6.46	1.60	0.62	0.26	0.20	0.10	
20	0.10	5.11	6.10	4.90	3.10	9.02	5.66	1.55	0.62	0.26	0.20	0.10	
21	0.10	3.19	3.73	5.99	2.54	7.06	5.66	1.55	0.58	0.26	0.18	0.10	
22	0.10	2.23	2.78	8.28	2.16	32.85	4.80	1.45	0.58	0.26	0.16	0.10	
23	0.10	1.81	2.09	13.18	1.95	16.80	4.40	1.40	0.58	0.26	0.16	0.10	
24	0.12	5.22	1.81	25.98	1.74	19.90	8.70	1.35	0.58	0.26	0.16	0.10	
25	0.12	15.04	1.60	12.46	1.60	13.18	13.72	1.30	0.54	0.24	0.16	0.10	
26	0.12	5.11	1.40	10.84	1.50	19.27	9.50	1.25	0.50	0.24	0.16	0.10	
27	0.12	3.37	1.15	7.30	1.45	13.72	7.86	1.20	0.50	0.24	0.16	0.10	
28	0.12	2.62	1.06	5.99	1.35	30.85	7.86	1.15	0.50	0.24	0.16	0.10	
29	0.12	1.95	1.06	5.11	1.25	28.38	6.46	1.10	0.50	0.22		0.10	
30	0.12	1.50	0.98	4.40	1.15	30.60	5.44	1.06	0.46	0.22		0.10	
31		1.20		4.50	1.10		4.70		0.46	0.22		0.10	
TOTAL	3.14	74.97	62.50	266.15	73.89	245.85	459.16	68.14	21.98	9.24	5.46	3.38	1293.79 CMSDAY
MEAN	0.10	2.42	2.08	8.59	2.38	8.19	14.81	2.27	0.71	0.30	0.19	0.11	3.54 CMS
MAX	0.12	15.04	12.28	25.98	5.55	32.85	48.42	4.40	1.06	0.42	0.22	0.14	48.42 CMS
MIN	0.10	0.12	0.58	0.86	1.10	0.74	4.40	1.06	0.46	0.22	0.16	0.10	0.10 CMS
RUNOFF	0.271	6.469	5.400	22.998	6.384	21.241	39.671	5.887	1.899	0.798	0.472	0.292	111.783 MCM

MOMENTARY PEAK 58.34 CMS, AT 3.52 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978
RUNOFF YIELD 9.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 149.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

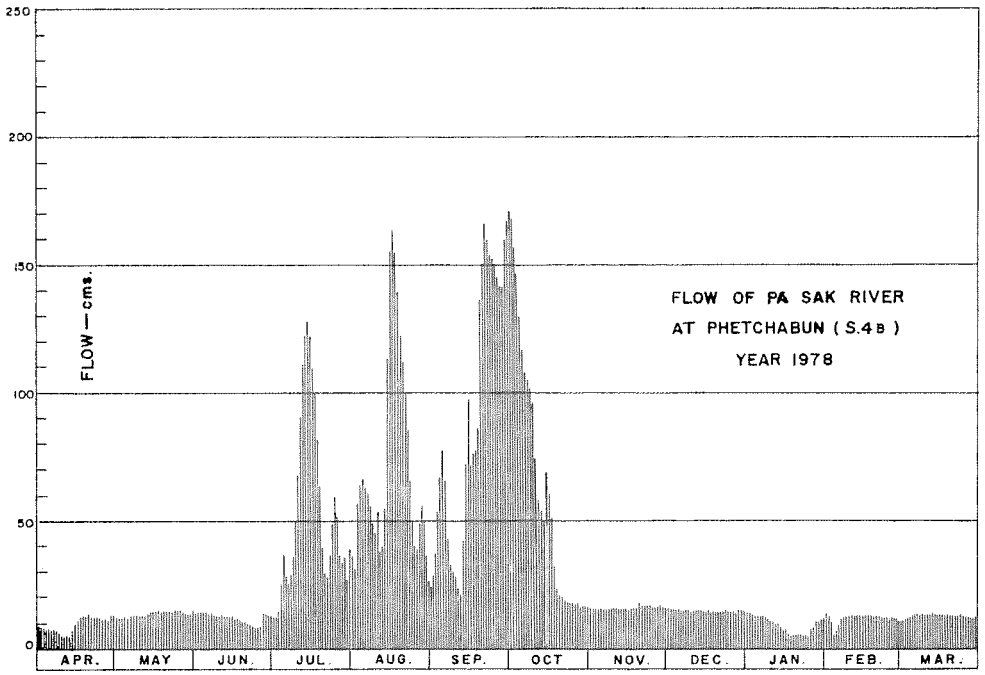
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 183 DISCHARGE MEASUREMENTS MADE IN 1966.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	108.84	109.46	109.71	109.42	111.44	110.62	115.41	109.78	109.82	109.54	109.54	109.30	
2	108.81	109.41	109.66	109.45	111.04	111.40	115.29	109.76	109.82	109.52	109.41	109.35	
3	108.78	109.41	109.63	109.49	112.59	112.43	115.05	109.76	109.82	109.46	108.96	109.45	
4	108.76	109.39	109.61	110.62	112.75	112.96	114.68	109.74	109.81	109.46	108.55	109.52	
5	108.73	109.39	109.59	111.55	112.80	113.16	114.37	109.76	109.80	109.48	108.76	109.58	
6	108.68	109.43	109.57	111.02	112.70	112.67	114.15	109.78	109.80	109.42	109.17	109.62	
7	108.63	109.53	109.55	110.68	112.60	111.99	113.99	109.81	109.79	109.36	109.46	109.59	
8	108.54	109.53	109.53	111.04	112.42	111.23	113.91	109.82	109.78	109.33	109.51	109.58	
9	108.46	109.50	109.51	111.63	112.00	111.05	113.86	109.82	109.78	109.26	109.50	109.57	
10	108.39	109.53	109.50	112.62	111.99	110.95	113.62	109.83	109.79	109.20	109.50	109.55	
11	108.37	109.53	109.50	113.20	112.33	110.49	113.01	109.82	109.78	109.14	109.50	109.54	
12	108.36	109.53	109.48	114.05	111.62	110.35	112.54	109.82	109.77	109.07	109.52	109.54	
13	108.40	109.68	109.47	114.37	111.84	111.93	112.42	109.82	109.76	108.97	109.50	109.52	
14	108.80	109.74	109.44	114.53	113.29	113.35	112.20	109.81	109.75	108.85	109.50	109.50	
15	109.01	109.73	109.40	114.48	114.98	113.73	112.90	109.79	109.74	108.65	109.50	109.50	
16	109.31	109.70	109.36	114.19	115.27	113.01	112.57	109.79	109.74	108.55	109.49	109.50	
17	109.44	109.72	109.31	113.90	115.10	113.16	112.21	109.87	109.72	108.50	109.49	109.50	
18	109.51	109.70	109.24	113.48	114.85	113.19	110.77	109.86	109.71	108.46	109.49	109.50	
19	109.53	109.73	109.20	112.76	114.53	114.62	110.40	109.90	109.70	108.44	109.49	109.50	
20	109.49	109.75	109.15	111.84	114.24	114.95	110.23	109.95	109.70	108.42	109.46	109.50	
21	109.46	109.74	109.08	111.13	113.99	115.33	110.16	109.92	109.70	108.40	109.43	109.50	
22	109.44	109.75	109.03	110.90	113.69	115.18	110.10	109.90	109.70	108.40	109.41	109.50	
23	109.41	109.75	108.98	111.47	113.09	115.05	110.02	109.90	109.70	108.39	109.39	109.50	
24	109.38	109.73	108.93	112.10	112.36	115.02	110.00	109.90	109.70	108.38	109.36	109.50	
25	109.36	109.68	108.87	112.55	111.71	115.00	109.98	109.89	109.70	108.42	109.34	109.48	
26	109.31	109.65	108.94	112.28	111.66	114.87	109.95	109.88	109.69	108.79	109.32	109.47	
27	109.24	109.60	109.57	111.51	112.16	114.79	109.87	109.87	109.68	108.92	109.29	109.46	
28	109.34	109.57	109.52	111.32	112.42	114.81	109.85	109.86	109.67	109.29	109.27	109.46	
29	109.56	109.54	109.50	111.45	112.15	115.21	109.87	109.83	109.66	109.27		109.45	
30	109.49	109.59	109.45	110.79	111.37	115.39	109.83	109.82	109.63	109.35		109.43	
31		109.76		111.63	110.68		109.80		109.58	109.47		109.40	
MEAN	109.03	109.60	109.38	111.98	112.76	113.26	112.03	109.84	109.74	108.97	109.36	109.50	
MAX	109.56	109.76	109.71	114.53	115.27	115.39	115.41	109.95	109.82	109.54	109.54	109.62	115.41
MIN	108.36	109.39	108.87	109.42	110.68	110.35	109.80	109.74	109.58	108.38	108.55	109.30	108.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 115.43 M (MSL), AT 24.00 HOURS, ON SEP 30, 1978
ZERO GAGE AT BOTTOM ELEVATION 106.50 M (MSL), RIVER BED 107.20 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.27	12.88	14.99	12.56	35.84	24.54	170.78	15.62	15.98	13.53	13.53	11.60	
2	8.06	12.48	14.55	12.80	29.92	35.20	165.02	15.44	15.98	13.36	12.48	12.00	
3	7.85	12.48	14.28	13.12	60.43	56.25	153.50	15.44	15.98	12.88	9.10	12.80	
4	7.71	12.32	14.11	24.54	64.90	71.00	135.78	15.26	15.89	12.88	6.28	13.36	
5	7.51	12.32	13.94	37.65	66.30	77.12	121.88	15.44	15.80	13.04	7.71	13.86	
6	7.16	12.64	13.77	29.66	63.50	62.66	112.65	15.62	15.80	12.56	10.60	14.20	
7	6.82	13.45	13.61	25.26	60.70	46.00	106.20	15.89	15.71	12.08	12.88	13.94	
8	6.21	13.45	13.45	29.92	56.00	32.48	103.00	15.98	15.62	11.84	13.28	13.86	
9	5.68	13.20	13.28	39.07	46.20	30.05	101.12	15.98	15.62	11.29	13.20	13.77	
10	5.24	13.45	13.20	61.26	46.00	28.75	92.68	16.07	15.71	10.82	13.20	13.61	
11	5.11	13.45	13.20	78.40	53.75	22.98	72.50	15.98	15.62	10.39	13.20	13.53	
12	5.05	13.45	13.04	108.60	38.88	21.35	59.08	15.98	15.53	9.88	13.36	13.53	
13	5.30	14.72	12.96	121.88	43.06	44.80	56.00	15.98	15.44	9.17	13.20	13.36	
14	7.99	15.26	12.72	128.95	81.46	83.50	50.70	15.89	15.35	8.33	13.20	13.20	
15	9.45	15.17	12.40	126.72	150.14	96.45	69.20	15.71	15.26	6.96	13.20	13.20	
16	11.68	14.90	12.08	114.29	164.06	72.50	59.89	15.71	15.26	6.28	13.12	13.20	
17	12.72	15.08	11.68	102.60	155.90	77.12	50.93	16.43	15.08	5.94	13.12	13.20	
18	13.28	14.90	11.13	87.92	142.90	78.08	26.41	16.34	14.99	5.68	13.12	13.20	
19	13.45	15.17	10.82	65.18	128.95	133.02	21.90	16.70	14.90	5.56	13.12	13.20	
20	13.12	15.35	10.46	43.06	116.34	148.70	20.03	17.20	14.90	5.43	12.88	13.20	
21	12.88	15.26	9.96	31.09	106.20	166.94	19.30	16.90	14.90	5.30	12.64	13.20	
22	12.72	15.35	9.60	28.10	95.06	159.74	18.70	16.70	14.90	5.30	12.48	13.20	
23	12.48	15.35	9.24	36.32	74.90	153.50	17.90	16.70	14.90	5.24	12.32	13.20	
24	12.24	15.17	8.89	48.40	54.50	152.06	17.70	16.70	14.90	5.18	12.08	13.20	
25	12.08	14.72	8.47	59.35	40.59	151.10	17.50	16.61	14.90	5.43	11.92	13.04	
26	11.68	14.46	8.96	52.54	39.64	144.86	17.20	16.52	14.81	7.92	11.76	12.96	
27	11.13	14.02	13.77	36.97	49.78	141.02	16.43	16.43	14.72	8.82	11.52	12.88	
28	11.92	13.77	13.36	33.92	56.00	141.98	16.25	16.34	14.64	11.52	11.37	12.68	
29	13.69	13.53	13.20	36.00	49.55	161.18	16.43	16.07	14.55	11.37		12.80	
30	13.12	13.94	12.80	26.67	34.72	169.82	16.07	15.98	14.28	12.00		12.64	
31		15.44		39.07	25.26		15.80		13.86	12.96		12.40	
TOTAL	291.60	437.13	367.92	1691.87	2232.43	2784.75	1938.53	483.61	471.78	288.94	339.87	408.22	11735.63 CMSDAY
MEAN	9.72	14.10	12.26	54.58	72.01	92.82	62.53	16.12	15.22	9.32	12.14	13.17	32.16 CMS
MAX	13.69	15.44	14.99	128.95	164.06	169.82	170.78	17.20	15.98	13.53	13.53	14.20	170.78 CMS
MIN	5.05	12.32	8.47	12.56	25.26	21.35	15.80	15.26	13.86	5.18	6.28	11.60	5.05 CMS
RUNOFF	25.194	37.768	31.788	146.177	192.882	240.602	167.469	41.784	40.762	24.964	29.365	35.270	1014.045 MCM

MOMENTARY PEAK 171.74 CMS, AT 115.43 M (MSL), AT 24.00 HOURS, ON SEP 30, 1978

RUNOFF YIELD 9.02 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 48.16 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +6.919 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

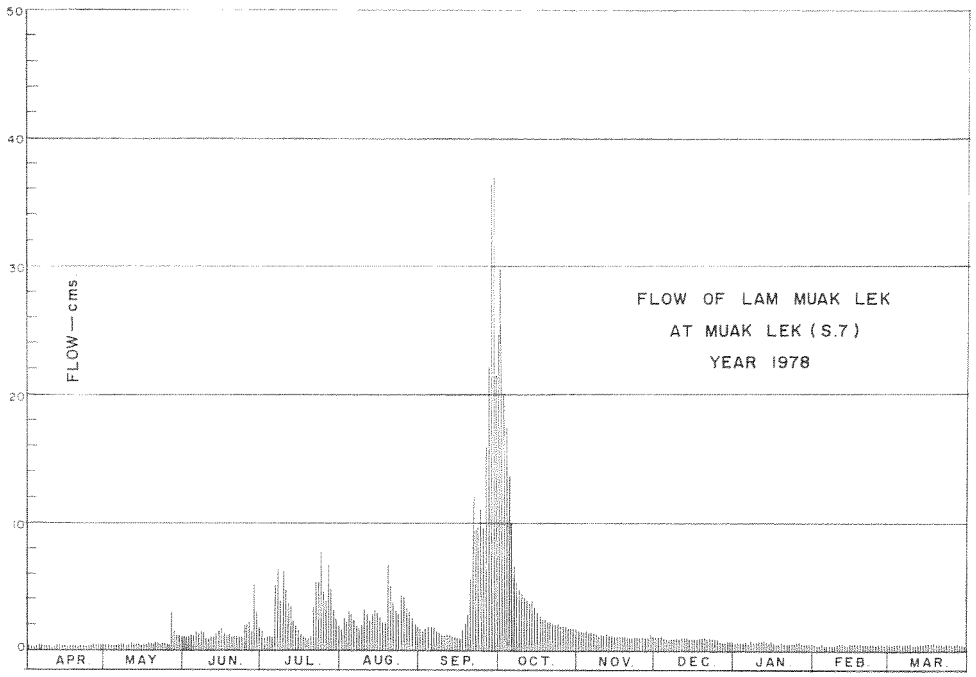
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.45	0.54	0.55	0.61	0.61	1.85	0.59	0.54	0.50	0.48	0.49	
2	0.45	0.45	0.55	0.54	0.68	0.60	1.57	0.58	0.54	0.50	0.48	0.49	
3	0.45	0.45	0.55	0.55	0.67	0.63	1.45	0.58	0.54	0.50	0.48	0.50	
4	0.46	0.45	0.56	0.55	0.72	0.62	1.40	0.58	0.53	0.51	0.48	0.50	
5	0.46	0.45	0.59	0.55	0.70	0.62	1.25	0.58	0.53	0.51	0.48	0.49	
6	0.46	0.46	0.58	0.85	0.66	0.61	1.02	0.57	0.53	0.51	0.48	0.48	
7	0.45	0.46	0.59	0.92	0.62	0.59	0.90	0.58	0.53	0.51	0.47	0.48	
8	0.45	0.46	0.56	0.75	0.61	0.58	0.86	0.57	0.53	0.51	0.47	0.47	
9	0.45	0.46	0.53	0.91	0.64	0.56	0.83	0.57	0.53	0.51	0.47	0.46	
10	0.45	0.46	0.54	0.83	0.73	0.57	0.80	0.57	0.53	0.51	0.47	0.46	
11	0.46	0.46	0.55	0.76	0.70	0.56	0.78	0.57	0.53	0.51	0.48	0.46	
12	0.46	0.46	0.55	0.73	0.67	0.55	0.76	0.57	0.53	0.51	0.48	0.46	
13	0.46	0.47	0.56	0.66	0.71	0.55	0.76	0.56	0.53	0.51	0.47	0.47	
14	0.45	0.47	0.60	0.63	0.73	0.55	0.74	0.55	0.53	0.51	0.47	0.47	
15	0.45	0.46	0.61	0.58	0.71	0.55	0.72	0.55	0.53	0.50	0.47	0.47	
16	0.45	0.48	0.57	0.56	0.67	0.55	0.69	0.55	0.53	0.49	0.47	0.47	
17	0.45	0.48	0.56	0.54	0.65	0.62	0.68	0.55	0.53	0.49	0.47	0.47	
18	0.46	0.49	0.56	0.53	0.66	0.66	0.67	0.55	0.53	0.49	0.48	0.47	
19	0.45	0.49	0.55	0.54	0.94	0.74	0.65	0.55	0.55	0.49	0.48	0.46	
20	0.44	0.49	0.55	0.54	0.85	0.94	0.65	0.55	0.55	0.49	0.48	0.47	
21	0.44	0.49	0.54	0.76	0.76	1.19	0.65	0.55	0.54	0.49	0.48	0.47	
22	0.45	0.49	0.54	0.86	0.71	1.07	0.64	0.54	0.54	0.49	0.48	0.47	
23	0.45	0.49	0.54	0.86	0.70	1.10	0.63	0.54	0.53	0.49	0.48	0.47	
24	0.45	0.48	0.64	0.99	0.80	1.14	0.63	0.54	0.53	0.49	0.48	0.47	
25	0.45	0.49	0.64	0.81	0.79	1.07	0.63	0.54	0.52	0.49	0.48	0.47	
26	0.45	0.50	0.62	0.77	0.74	1.41	0.63	0.54	0.51	0.49	0.49	0.47	
27	0.45	0.70	0.59	0.94	0.70	1.62	0.62	0.54	0.51	0.49	0.49	0.47	
28	0.45	0.59	0.85	0.81	0.67	2.08	0.61	0.55	0.51	0.49	0.49	0.47	
29	0.45	0.55	0.68	0.71	0.65	2.10	0.61	0.54	0.51	0.49		0.47	
30	0.45	0.54	0.60	0.67	0.63	1.56	0.61	0.54	0.51	0.49		0.48	
31		0.54		0.63	0.61		0.60		0.51	0.48		0.47	
MEAN	0.45	0.49	0.58	0.71	0.70	0.89	0.84	0.56	0.53	0.50	0.48	0.47	
MAX	0.46	0.70	0.85	0.99	0.94	2.10	1.85	0.59	0.55	0.51	0.49	0.50	2.10
MIN	0.44	0.45	0.53	0.53	0.61	0.55	0.60	0.54	0.51	0.48	0.47	0.46	0.44

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.46 M (A.D), AT 6.00 HOURS, ON SEP 29, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.75 M (A.D)
LEFT BANK ELEVATION 7.89 M (A.D)
RIGHT BANK ELEVATION 7.88 M (A.D), DRAINAGE AREA 177 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.30	1.00	1.10	1.73	1.73	29.65	1.50	1.00	0.60	0.48	0.54	
2	0.30	0.30	1.10	1.00	2.64	1.60	21.82	1.40	1.00	0.60	0.48	0.54	
3	0.30	0.30	1.10	1.10	2.51	1.99	18.70	1.40	1.00	0.60	0.48	0.60	
4	0.36	0.30	1.20	1.10	3.20	1.86	17.40	1.40	0.90	0.70	0.48	0.60	
5	0.36	0.30	1.50	1.10	2.90	1.86	13.60	1.40	0.90	0.70	0.48	0.54	
6	0.36	0.36	1.40	5.25	2.38	1.73	8.44	1.30	0.90	0.70	0.48	0.48	
7	0.30	0.36	1.50	6.48	1.86	1.50	6.10	1.40	0.90	0.70	0.42	0.48	
8	0.30	0.36	1.20	3.65	1.73	1.40	5.42	1.30	0.90	0.70	0.42	0.42	
9	0.30	0.36	0.90	6.29	2.12	1.20	4.91	1.30	0.90	0.70	0.42	0.36	
10	0.30	0.36	1.00	4.91	3.35	1.30	4.40	1.30	0.90	0.70	0.42	0.36	
11	0.36	0.36	1.10	3.80	2.90	1.20	4.10	1.30	0.90	0.70	0.48	0.36	
12	0.36	0.36	1.10	3.35	2.51	1.10	3.80	1.30	0.90	0.70	0.48	0.36	
13	0.36	0.42	1.20	2.38	3.05	1.10	3.80	1.20	0.90	0.70	0.42	0.42	
14	0.30	0.42	1.60	1.99	3.35	1.10	3.50	1.10	0.90	0.70	0.42	0.42	
15	0.30	0.36	1.73	1.40	3.05	1.10	3.20	1.10	0.90	0.60	0.42	0.42	
16	0.30	0.48	1.30	1.20	2.51	1.10	2.77	1.10	0.90	0.54	0.42	0.42	
17	0.30	0.48	1.20	1.00	2.25	1.86	2.64	1.10	0.90	0.54	0.42	0.42	
18	0.36	0.54	1.20	0.90	2.38	2.38	2.51	1.10	0.90	0.54	0.48	0.42	
19	0.30	0.54	1.10	1.00	6.86	3.50	2.25	1.10	1.10	0.54	0.48	0.36	
20	0.24	0.54	1.10	1.00	5.25	6.86	2.25	1.10	1.10	0.54	0.48	0.42	
21	0.24	0.54	1.00	3.80	3.80	12.18	2.25	1.10	1.00	0.54	0.48	0.42	
22	0.30	0.54	1.00	5.42	3.05	9.54	2.12	1.00	1.00	0.54	0.48	0.42	
23	0.30	0.54	1.00	5.42	2.90	10.20	1.99	1.00	0.90	0.54	0.48	0.42	
24	0.30	0.48	2.12	7.81	4.40	11.08	1.99	1.00	0.90	0.54	0.48	0.42	
25	0.30	0.54	2.12	4.57	4.25	9.54	1.99	1.00	0.80	0.54	0.48	0.42	
26	0.30	0.60	1.86	3.95	3.50	17.66	1.99	1.00	0.70	0.54	0.54	0.42	
27	0.30	2.90	1.50	6.86	2.90	23.16	1.86	1.00	0.70	0.54	0.54	0.42	
28	0.30	1.50	5.25	4.57	2.51	36.48	1.73	1.10	0.70	0.54	0.54	0.42	
29	0.30	1.10	2.64	3.05	2.25	37.10	1.73	1.00	0.70	0.54		0.42	
30	0.30	1.00	1.60	2.51	1.99	21.56	1.73	1.00	0.70	0.54		0.48	
31		1.00		1.99	1.73		1.60		0.70	0.48		0.42	
TOTAL	9.30	18.54	44.62	99.95	91.81	225.97	182.24	35.40	27.50	18.68	13.08	13.62	780.71 CMSDAY
MEAN	0.31	0.60	1.49	3.22	2.96	7.53	5.88	1.18	0.89	0.60	0.47	0.44	2.14 CMS
MAX	0.36	2.90	5.25	7.81	6.86	37.10	29.65	1.50	1.10	0.70	0.54	0.60	37.10 CMS
MIN	0.24	0.30	0.90	0.90	1.73	1.10	1.60	1.00	0.70	0.48	0.42	0.36	0.24 CMS
RUNOFF	0.804	1.602	3.855	8.636	7.932	19.524	15.746	3.059	2.376	1.614	1.130	1.177	67.453 MCM

MOMENTARY PEAK 48.26 CMS, AT 2.46 M (A.D), AT 6.00 HOURS, ON SEP 29, 1978
RUNOFF YIELD 12.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 272.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — +6.330 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — ON LEFT BANK UNDER TAMARIND TREE ALONG THE MEASURING LINE.

ELEVATION — +21.937 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

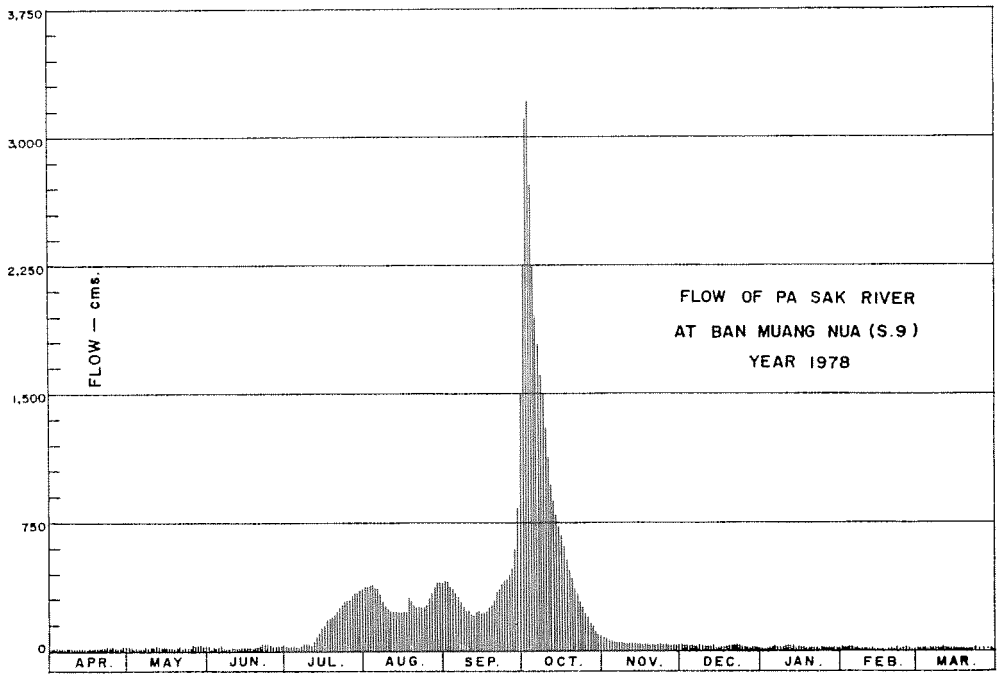
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.12	7.19	7.56	7.55	11.64	11.92	20.71	8.58	7.83	7.62	7.40	7.33	
2	7.13	7.16	7.51	7.58	11.72	11.78	21.64	8.46	7.83	7.62	7.39	7.32	
3	7.13	7.14	7.48	7.60	11.70	11.61	21.73	8.37	7.84	7.61	7.39	7.31	
4	7.11	7.29	7.44	7.60	11.66	11.39	21.32	8.32	7.84	7.61	7.38	7.32	
5	7.09	7.35	7.82	7.63	11.54	11.16	20.71	8.24	7.82	7.60	7.39	7.33	
6	7.08	7.21	7.53	7.68	11.36	10.90	20.15	8.21	7.82	7.59	7.39	7.35	
7	7.09	7.16	7.43	8.06	11.03	10.69	19.65	8.18	7.82	7.58	7.38	7.35	
8	7.09	7.17	7.43	8.13	10.67	10.49	19.12	8.14	7.81	7.58	7.38	7.34	
9	7.11	7.32	7.41	8.08	10.41	10.31	18.45	8.12	7.80	7.57	7.37	7.32	
10	7.10	7.60	7.40	8.01	10.25	10.29	17.62	8.07	7.78	7.57	7.38	7.32	
11	7.08	7.63	7.39	8.02	10.20	10.06	16.65	8.02	7.77	7.57	7.37	7.32	
12	7.08	7.46	7.46	8.40	10.20	10.10	15.87	7.98	7.76	7.60	7.36	7.30	
13	7.10	7.30	7.41	8.95	10.26	10.30	15.27	7.95	7.76	7.59	7.36	7.31	
14	7.15	7.36	7.38	9.38	10.30	10.32	14.72	7.92	7.75	7.57	7.36	7.32	
15	7.37	7.33	7.45	9.64	10.34	10.13	14.24	7.90	7.74	7.53	7.35	7.31	
16	7.35	7.29	7.45	9.74	10.39	10.17	13.81	7.88	7.74	7.52	7.35	7.30	
17	7.23	7.36	7.41	9.81	10.42	10.40	13.38	7.88	7.74	7.51	7.35	7.29	
18	7.21	7.60	7.38	9.88	11.03	10.63	12.98	7.88	7.74	7.50	7.34	7.28	
19	7.22	7.69	7.60	9.97	10.76	10.80	12.54	7.89	7.73	7.49	7.34	7.28	
20	7.28	7.61	7.83	10.02	10.68	10.98	12.07	7.89	7.72	7.48	7.34	7.31	
21	7.29	7.48	7.99	10.12	10.62	11.34	11.61	7.88	7.72	7.40	7.33	7.33	
22	7.25	7.38	8.09	10.38	10.59	11.67	11.20	7.87	7.71	7.45	7.33	7.34	
23	7.24	7.36	7.98	10.46	10.59	11.82	10.81	7.86	7.70	7.44	7.33	7.34	
24	7.53	7.46	7.84	10.62	10.70	11.99	10.46	7.86	7.69	7.44	7.33	7.34	
25	7.54	7.44	7.68	10.88	10.91	12.10	10.15	7.83	7.68	7.43	7.32	7.34	
26	7.38	7.85	7.60	11.05	11.21	12.30	9.86	7.81	7.67	7.43	7.31	7.33	
27	7.51	7.97	7.60	11.18	11.48	12.77	9.58	7.81	7.67	7.43	7.31	7.33	
28	7.50	7.80	7.56	11.28	11.84	13.63	9.33	7.81	7.65	7.43	7.33	7.33	
29	7.34	7.82	7.59	11.38	11.95	15.34	9.07	7.81	7.65	7.42		7.33	
30	7.25	7.77	7.55	11.50	11.98	18.19	8.87	7.81	7.64	7.41		7.32	
31		7.66		11.59	11.98		8.72		7.63	7.40		7.31	
MEAN	7.23	7.46	7.57	9.42	10.98	11.52	14.59	8.01	7.74	7.52	7.36	7.32	
MAX	7.54	7.97	8.09	11.59	11.98	18.19	21.73	8.58	7.84	7.62	7.40	7.35	21.73
MIN	7.08	7.14	7.38	7.55	10.20	10.06	8.72	7.81	7.63	7.40	7.31	7.28	7.08

ANNUAL MAX MOMENTARY GAGE HEIGHT 21.77 M (MSL), AT 21.00 HOURS, ON OCT 3, 1978
ZERO GAGE AT BOTTOM ELEVATION 6.33 M (MSL), RIVER BED 4.62 M (MSL)
LEFT BANK ELEVATION 21.95 M (MSL)
RIGHT BANK ELEVATION 22.00 M (MSL), DRAINAGE AREA 14374 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.4	5.3	17.4	17.0	376.8	410.4	2256.5	75.6	30.5	20.0	11.4	9.3	
2	3.6	4.5	15.4	18.2	386.4	393.6	3098.0	67.2	30.5	20.0	11.1	9.0	
3	3.6	3.9	14.3	19.0	384.0	373.2	3206.0	61.2	31.0	19.5	11.1	8.7	
4	3.1	8.1	12.8	19.0	379.2	346.9	2750.0	58.2	31.0	19.5	10.8	9.0	
5	2.5	9.9	30.0	20.5	364.8	321.6	2256.5	53.4	30.0	19.0	11.1	9.3	
6	2.2	5.9	16.2	23.0	343.6	293.0	1947.5	51.6	30.0	18.6	11.1	9.9	
7	2.5	4.5	12.5	42.6	307.3	269.9	1750.0	49.8	30.0	18.2	10.8	9.9	
8	2.5	4.8	12.5	46.8	267.7	249.0	1600.0	47.4	29.5	18.2	10.8	9.6	
9	3.1	9.0	11.8	43.8	241.0	231.0	1450.0	46.2	29.0	17.8	10.5	9.0	
10	2.8	19.0	11.4	39.6	225.0	229.0	1284.0	43.2	28.0	17.8	10.8	9.0	
11	2.2	20.5	11.1	40.2	220.0	206.0	1100.5	40.2	27.5	17.8	10.5	9.0	
12	2.2	13.6	13.6	63.0	220.0	210.0	969.2	38.0	27.0	19.0	10.2	8.4	
13	2.8	8.4	11.8	103.0	226.0	230.0	873.2	36.5	27.0	18.6	10.2	8.7	
14	4.2	10.2	10.8	140.2	230.0	232.0	786.0	35.0	26.5	17.8	10.2	9.0	
15	10.5	9.3	13.2	164.0	234.0	213.0	715.6	34.0	26.0	16.2	9.9	8.7	
16	9.9	8.1	13.2	174.0	239.0	217.0	655.4	33.0	26.0	15.8	9.9	8.4	
17	6.4	10.2	11.8	181.0	242.0	240.0	595.2	33.0	26.0	15.4	9.9	8.1	
18	5.9	19.0	10.8	188.0	307.3	263.3	540.4	33.0	26.0	15.0	9.6	7.8	
19	6.2	23.5	19.0	197.0	277.6	282.0	484.8	33.5	25.5	14.6	9.6	7.8	
20	7.8	19.5	30.5	202.0	268.8	301.8	428.4	33.5	25.0	14.3	9.6	8.7	
21	8.1	14.3	38.5	212.0	262.2	341.4	373.2	33.0	25.0	11.4	9.3	9.3	
22	7.0	10.8	44.4	238.0	259.0	380.4	326.0	32.5	24.5	13.2	9.3	9.6	
23	6.7	10.2	38.0	246.0	259.0	398.4	283.1	32.0	24.0	12.8	9.3	9.6	
24	16.2	13.6	31.0	262.2	271.0	418.8	246.0	32.0	23.5	12.8	9.3	9.6	
25	16.6	12.8	23.0	290.8	294.1	432.0	215.0	30.5	23.0	12.5	9.0	9.6	
26	10.8	31.5	19.0	309.5	327.1	456.0	186.0	29.5	22.5	12.5	8.7	9.3	
27	15.4	37.5	19.0	323.8	357.6	513.1	158.2	29.5	22.5	12.5	8.7	9.3	
28	15.0	29.0	17.4	334.8	400.8	630.2	135.7	29.5	21.5	12.5	9.3	9.3	
29	9.6	30.0	18.6	345.8	414.0	884.4	112.6	29.5	21.5	12.1		9.3	
30	7.0	27.5	17.0	360.0	417.6	1398.0	96.6	29.5	21.0	11.8		9.0	
31		22.0		370.8	417.6		85.4		20.5	11.4		8.7	
TOTAL	199.8	456.4	566.0	5035.6	9420.5	11365.4	30965.0	1211.0	811.5	488.6	282.0	279.9	61081.6 CMSDAY
MEAN	6.7	14.7	18.9	162.4	303.9	378.8	998.9	40.4	26.2	15.8	10.1	9.0	167.3 CMS
MAX	16.6	37.5	44.4	370.8	417.6	1398.0	3206.0	75.6	31.0	20.0	11.4	9.9	3206.0 CMS
MIN	2.2	3.9	10.8	17.0	220.0	206.0	85.4	29.5	20.5	11.4	8.7	7.8	2.2 CMS
RUNOFF	17.26	39.43	48.90	435.08	813.93	981.97	2675.37	104.63	70.11	42.21	24.36	24.18	5277.45 MCM

MOMENTARY PEAK 3254.00 CMS. AT 21.77 M (MSL), AT 21.00 HOURS, ON OCT 3, 1978

RUNOFF YIELD 11.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 226.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 178 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — STREAM GAGING BEGAN ON MAY 3, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

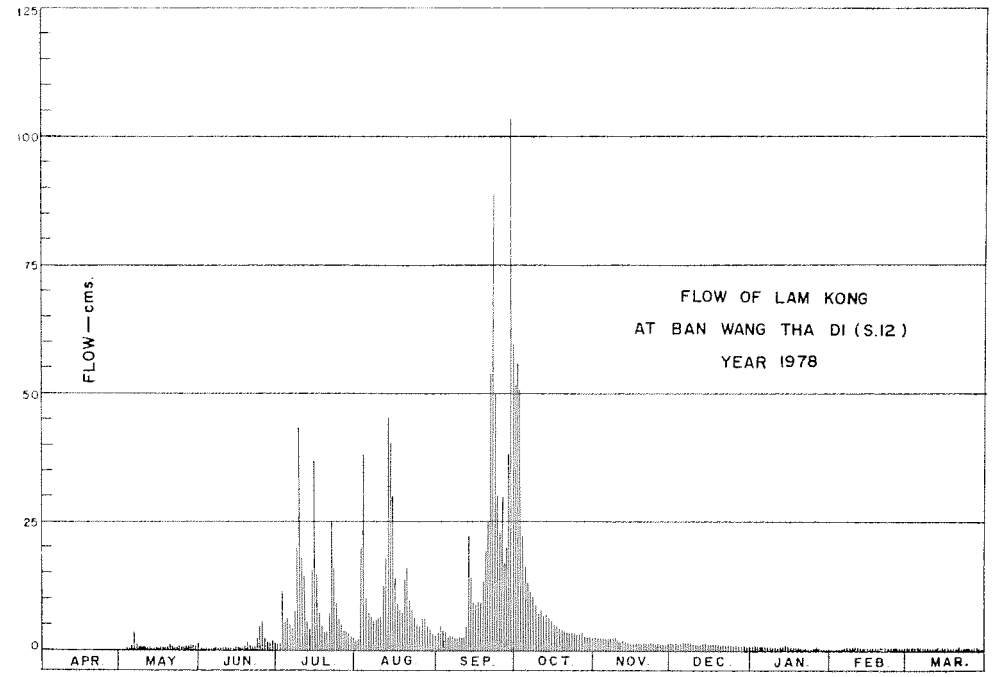
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.61	0.68	0.84	0.99	2.57	0.85	0.70	0.64	0.58	0.53	
2	*******	*******	0.62	0.75	0.88	1.04	2.65	0.84	0.70	0.64	0.58	0.54	
3	*******	0.45	0.59	1.41	2.24	0.98	1.96	0.84	0.70	0.64	0.58	0.60	
4	*******	0.44	0.56	1.08	1.57	0.94	1.70	0.83	0.70	0.64	0.58	0.58	
5	*******	0.50	0.54	1.16	1.28	0.97	1.60	0.82	0.70	0.64	0.57	0.65	
6	*******	0.95	0.53	1.06	1.19	0.93	1.49	0.83	0.70	0.63	0.57	0.55	
7	*******	0.71	0.52	1.04	1.13	0.87	1.37	0.83	0.70	0.63	0.57	0.54	
8	*******	0.59	0.51	1.27	1.16	0.86	1.31	0.83	0.69	0.63	0.56	0.53	
9	*******	0.55	0.50	2.38	1.15	0.89	1.25	0.82	0.69	0.63	0.56	0.52	
10	*******	0.55	0.50	1.72	1.22	0.89	1.20	0.81	0.69	0.63	0.55	0.51	
11	*******	0.53	0.49	1.66	1.54	0.84	1.23	0.80	0.69	0.63	0.54	0.48	
12	*******	0.52	0.49	1.25	1.73	1.00	1.19	0.79	0.68	0.62	0.53	0.46	
13	*******	0.51	0.48	1.08	2.42	1.83	1.19	0.78	0.68	0.62	0.53	0.46	
14	*******	0.53	0.48	0.99	2.27	1.50	1.12	0.77	0.68	0.62	0.53	0.46	
15	*******	0.53	0.47	2.21	1.62	1.30	1.07	0.76	0.68	0.61	0.54	0.46	
16	*******	0.54	0.50	1.65	1.37	1.33	1.04	0.76	0.68	0.61	0.53	0.45	
17	*******	0.55	0.51	1.25	1.26	1.28	1.01	0.76	0.68	0.61	0.52	0.45	
18	*******	0.55	0.50	1.07	1.20	1.64	1.00	0.75	0.67	0.60	0.52	0.45	
19	*******	0.55	0.81	0.98	2.53	1.83	0.99	0.75	0.67	0.60	0.52	0.45	
20	*******	0.70	0.65	0.94	1.62	1.86	0.98	0.74	0.67	0.60	0.52	0.46	
21	*******	0.63	0.58	1.06	1.35	1.99	0.96	0.74	0.67	0.59	0.52	0.44	
22	*******	0.59	0.59	1.89	1.26	3.28	0.95	0.74	0.67	0.59	0.51	0.44	
23	*******	0.58	0.76	1.50	1.15	2.62	0.93	0.74	0.66	0.59	0.51	0.44	
24	*******	0.62	1.02	1.26	1.08	2.12	0.93	0.73	0.66	0.59	0.51	0.42	
25	*******	0.60	1.08	1.13	1.05	1.85	0.99	0.73	0.66	0.59	0.50	0.43	
26	*******	0.63	0.83	1.03	1.16	2.04	0.92	0.73	0.66	0.59	0.50	0.43	
27	*******	0.65	0.74	0.98	1.14	1.64	0.90	0.72	0.66	0.59	0.50	0.43	
28	*******	0.62	0.75	0.95	1.04	1.84	0.90	0.72	0.65	0.59	0.51	0.42	
29	*******	0.64	0.83	0.95	0.98	3.50	0.89	0.72	0.65	0.58		0.42	
30	*******	0.67	0.74	0.87	0.93	2.96	0.86	0.71	0.65	0.58		0.42	
31		0.64		0.85	0.91		0.86		0.65	0.58		0.42	
MEAN	*******	*******	0.63	1.23	1.36	1.59	1.23	0.77	0.68	0.61	0.54	0.48	
MAX	*******	0.95	1.08	2.38	2.53	3.50	2.65	0.85	0.70	0.64	0.58	0.65	3.50
MIN	*******	*******	0.47	0.68	0.84	0.84	0.86	0.71	0.65	0.58	0.50	0.42	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.38 M (A.D), AT 8.00 HOURS, ON SEP 22, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.01 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.46	0.88	2.14	3.97	51.95	2.25	1.00	0.64	0.34	0.19	
2	*******	*******	0.52	1.35	2.58	4.66	55.55	2.14	1.00	0.64	0.34	0.22	
3	*******	0.05	0.37	11.32	37.80	3.84	27.06	2.14	1.00	0.64	0.34	0.40	
4	*******	0.04	0.28	5.22	14.98	3.32	18.50	2.03	1.00	0.64	0.34	0.34	
5	*******	0.10	0.22	6.46	8.62	3.71	15.70	1.92	1.00	0.64	0.31	0.70	
6	*******	3.45	0.19	4.94	6.94	3.19	13.08	2.03	1.00	0.58	0.31	0.25	
7	*******	1.07	0.16	4.66	5.98	2.47	10.47	2.03	1.00	0.58	0.31	0.22	
8	*******	0.37	0.13	8.43	6.46	2.36	9.21	2.03	0.94	0.58	0.28	0.19	
9	*******	0.25	0.10	43.56	6.30	2.69	8.05	1.92	0.94	0.58	0.28	0.16	
10	*******	0.25	0.10	19.12	7.48	2.69	7.10	1.81	0.94	0.58	0.25	0.13	
11	*******	0.19	0.09	17.38	14.26	2.14	7.67	1.70	0.94	0.58	0.22	0.08	
12	*******	0.16	0.09	8.05	15.43	4.10	6.94	1.63	0.88	0.52	0.19	0.06	
13	*******	0.13	0.08	5.22	45.28	22.59	6.94	1.56	0.88	0.52	0.19	0.06	
14	*******	0.19	0.08	3.97	39.00	13.30	5.82	1.49	0.88	0.52	0.19	0.06	
15	*******	0.19	0.07	36.60	16.26	9.00	5.08	1.42	0.88	0.46	0.22	0.06	
16	*******	0.22	0.10	17.10	10.47	9.63	4.66	1.42	0.88	0.46	0.19	0.05	
17	*******	0.25	0.13	8.05	8.24	8.62	4.24	1.42	0.88	0.46	0.16	0.05	
18	*******	0.25	0.10	5.08	7.10	16.82	4.10	1.35	0.82	0.40	0.16	0.05	
19	*******	0.25	1.81	3.84	50.15	22.59	3.97	1.35	0.82	0.40	0.16	0.05	
20	*******	1.00	0.70	3.32	16.26	23.58	3.84	1.28	0.82	0.40	0.16	0.06	
21	*******	0.58	0.34	4.94	10.05	28.14	3.58	1.28	0.82	0.37	0.16	0.04	
22	*******	0.37	0.37	24.57	8.24	88.78	3.45	1.28	0.82	0.37	0.13	0.04	
23	*******	0.34	1.42	13.30	6.30	54.20	3.19	1.28	0.76	0.37	0.13	0.04	
24	*******	0.52	4.38	8.24	5.22	33.00	3.19	1.21	0.76	0.37	0.13	0.02	
25	*******	0.40	5.22	5.98	4.80	23.25	3.97	1.21	0.76	0.37	0.10	0.03	
26	*******	0.58	2.03	4.52	6.46	29.98	3.06	1.21	0.76	0.37	0.10	0.03	
27	*******	0.70	1.28	3.84	6.14	16.82	2.80	1.14	0.76	0.37	0.10	0.03	
28	*******	0.52	1.35	3.45	4.66	22.92	2.80	1.14	0.70	0.37	0.13	0.02	
29	*******	0.64	2.03	3.45	3.84	103.00	2.69	1.14	0.70	0.34		0.02	
30	*******	0.82	1.28	2.47	3.19	70.62	2.36	1.07	0.70	0.34		0.02	
31		0.64		2.25	2.93		2.36		0.70	0.34		0.02	
TOTAL	*******	*******	25.48	291.56	387.56	635.98	303.38	46.88	26.74	14.80	5.92	3.69	******** CMSDAY
MEAN	*******	*******	0.85	9.41	12.50	21.20	9.79	1.56	0.86	0.48	0.21	0.12	******* CMS
MAX	*******	3.45	5.22	43.56	50.15	103.00	55.55	2.25	1.00	0.64	0.34	0.70	103.00 CMS
MIN	*******	*******	0.07	0.88	2.14	2.14	2.36	1.07	0.70	0.34	0.10	0.02	******* CMS
RUNOFF	*******	*******	2.201	25.191	33.485	54.949	26.212	4.050	2.310	1.279	0.511	0.319	******** MCM

MOMENTARY PEAK 172.68 CMS, AT 4.38 M (A.D), AT 8.00 HOURS, ON SEP 22, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 366.62 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — 5-TIME DAILY READINGS AT 06.00, 09.00, 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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 131 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — STREAM GAGING BEGAN ON APR 14,1978. ESTIMATED GAGE HEIGHT FOR NO FLOW DURING MAR 20-31, 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

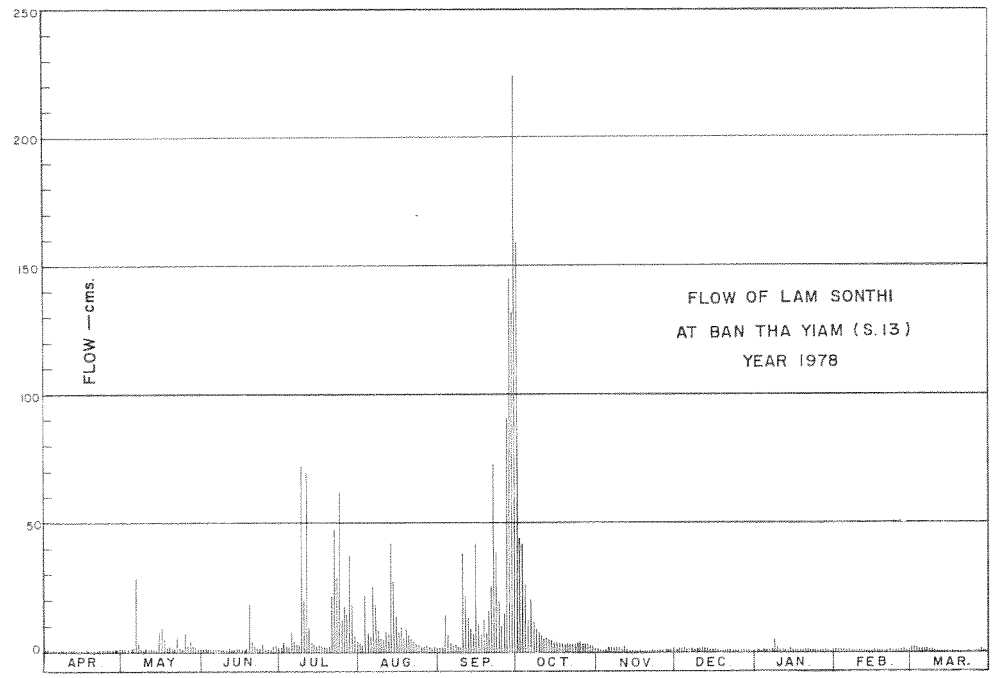
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.31	0.42	0.43	0.85	0.55	7.16	0.64	0.52	0.46	0.44	0.63	
2	*******	0.29	0.41	0.85	0.82	0.69	4.17	0.64	0.52	0.46	0.44	0.50	
3	*******	0.28	0.40	0.63	2.66	2.06	3.86	0.64	0.52	0.46	0.44	0.46	
4	*******	0.27	0.40	0.55	1.23	1.12	2.28	0.63	0.51	0.46	0.44	0.44	
5	*******	0.34	0.40	1.48	0.90	0.81	1.85	0.63	0.51	0.46	0.43	0.43	
6	*******	3.20	0.41	1.02	2.99	0.69	2.52	0.63	0.51	0.46	0.43	0.43	
7	*******	0.90	0.41	0.66	1.56	0.79	1.83	0.63	0.50	0.46	0.43	0.43	
8	*******	0.47	0.39	0.73	1.54	0.69	1.45	0.63	0.50	0.92	0.43	0.42	
9	*******	0.43	0.38	5.39	1.07	0.83	1.32	0.63	0.50	0.66	0.43	0.42	
10	*******	0.43	0.38	2.30	1.07	3.72	1.20	0.63	0.50	0.57	0.43	0.41	
11	*******	0.46	0.37	5.28	1.47	2.24	1.12	0.61	0.50	0.52	0.43	0.41	
12	*******	0.40	0.37	1.48	1.25	1.78	1.13	0.60	0.50	0.50	0.43	0.40	
13	*******	0.39	0.36	0.98	3.90	1.38	1.02	0.60	0.49	0.49	0.43	0.40	
14	0.35	0.70	0.36	0.77	3.13	1.26	0.96	0.59	0.49	0.48	0.43	0.40	
15	0.33	1.39	0.36	0.70	1.81	3.92	0.93	0.59	0.49	0.47	0.43	0.39	
16	0.33	1.46	0.35	0.77	1.35	1.78	0.89	0.59	0.49	0.47	0.42	0.39	
17	0.32	1.07	0.36	0.62	1.64	1.26	0.85	0.58	0.49	0.47	0.42	0.38	
18	0.31	0.60	0.43	0.57	1.17	1.87	0.83	0.57	0.48	0.47	0.42	0.38	
19	0.29	0.62	2.37	0.54	1.55	1.33	0.82	0.57	0.48	0.46	0.42	0.38	
20	0.29	0.54	0.54	0.68	0.99	2.40	0.80	0.56	0.48	0.46	0.42	0.30	
21	0.28	0.48	0.48	2.74	1.02	3.16	0.78	0.56	0.48	0.46	0.42	0.30	
22	0.28	1.15	0.42	4.24	0.82	5.37	0.76	0.55	0.48	0.46	0.42	0.30	
23	0.27	0.64	0.40	3.15	0.77	3.73	0.75	0.55	0.48	0.45	0.42	0.30	
24	0.39	0.46	0.75	4.92	0.71	2.51	0.83	0.55	0.47	0.45	0.41	0.29	
25	0.41	1.13	0.46	1.85	0.66	1.65	0.80	0.55	0.47	0.45	0.41	0.29	
26	0.37	0.68	0.43	2.36	0.72	2.24	0.75	0.54	0.47	0.45	0.41	0.30	
27	0.34	0.92	0.41	1.99	0.67	6.54	0.72	0.54	0.47	0.45	0.41	0.29	
28	0.32	0.65	0.54	3.71	0.63	7.33	0.69	0.53	0.47	0.45	0.41	0.28	
29	0.30	0.51	0.64	1.73	0.60	7.13	0.67	0.53	0.46	0.45		0.27	
30	0.31	0.46	0.51	1.27	0.58	8.20	0.66	0.53	0.46	0.45		0.27	
31		0.43		0.95	0.56		0.65		0.46	0.44		0.27	
MEAN	*******	0.71	0.50	1.79	1.31	2.63	1.45	0.59	0.49	0.49	0.42	0.37	
MAX	0.41	3.20	2.37	5.39	3.90	8.20	7.16	0.64	0.52	0.92	0.44	0.63	8.20
MIN	*******	0.27	0.35	0.43	0.56	0.55	0.65	0.53	0.46	0.44	0.41	0.27	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.74 M (A.D), AT 9.00 HOURS, ON SEP 30, 1978

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

LEFT BANK ELEVATION — 9.50 M (A.D)

RIGHT BANK ELEVATION — 9.10 M (A.D), DRAINAGE AREA 359 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.05	0.60	0.65	3.40	1.25	133.60	1.78	1.10	0.80	0.70	1.71	
2	*******	0.00	0.55	3.40	3.16	2.13	46.40	1.78	1.10	0.80	0.70	1.00	
3	*******	0.00	0.50	1.71	21.72	14.66	40.34	1.78	1.10	0.80	0.70	0.80	
4	*******	0.00	0.50	1.25	6.44	5.56	17.16	1.71	1.05	0.80	0.70	0.70	
5	*******	0.20	0.50	8.80	3.80	3.06	12.50	1.71	1.05	0.80	0.65	0.65	
6	*******	28.80	0.55	4.76	25.68	2.13	20.04	1.71	1.05	0.80	0.65	0.65	
7	*******	3.80	0.55	1.92	9.60	2.92	12.30	1.71	1.00	0.80	0.65	0.65	
8	*******	0.85	0.45	2.44	9.40	2.13	8.50	1.71	1.00	3.96	0.65	0.60	
9	*******	0.65	0.40	72.78	5.16	3.24	7.20	1.71	1.00	1.92	0.65	0.60	
10	*******	0.65	0.40	17.40	5.16	37.76	6.20	1.71	1.00	1.35	0.65	0.55	
11	*******	0.80	0.35	70.36	8.70	16.68	5.56	1.57	1.00	1.10	0.65	0.55	
12	*******	0.50	0.35	8.80	6.60	11.80	5.64	1.50	1.00	1.00	0.65	0.50	
13	*******	0.45	0.30	4.44	41.10	7.80	4.76	1.50	0.95	0.95	0.65	0.50	
14	0.25	2.20	0.30	2.76	27.75	6.68	4.28	1.45	0.95	0.90	0.65	0.50	
15	0.15	7.90	0.30	2.20	12.10	41.48	4.04	1.45	0.95	0.85	0.65	0.45	
16	0.15	8.60	0.25	2.76	7.50	11.80	3.72	1.45	0.95	0.85	0.60	0.45	
17	0.10	5.16	0.30	1.64	10.40	6.68	3.40	1.40	0.95	0.85	0.60	0.40	
18	0.05	1.50	0.65	1.35	5.96	12.70	3.24	1.35	0.90	0.85	0.60	0.40	
19	0.00	1.64	18.24	1.20	9.50	7.30	3.16	1.35	0.90	0.80	0.60	0.40	
20	0.00	1.20	1.20	2.06	4.52	18.60	3.00	1.30	0.90	0.80	0.60	0.00	
21	0.00	0.90	0.90	22.68	4.76	28.20	2.84	1.30	0.90	0.80	0.60	0.00	
22	0.00	5.80	0.60	47.80	3.16	72.34	2.68	1.25	0.90	0.80	0.60	0.00	
23	0.00	1.78	0.50	28.05	2.76	37.94	2.60	1.25	0.90	0.75	0.60	0.00	
24	0.45	0.80	2.60	62.44	2.28	19.92	3.24	1.25	0.85	0.75	0.55	0.00	
25	0.55	5.64	0.80	12.50	1.92	10.50	3.00	1.25	0.85	0.75	0.55	0.00	
26	0.35	2.06	0.65	18.12	2.36	16.68	2.60	1.20	0.85	0.75	0.55	0.00	
27	0.20	3.96	0.55	13.90	1.99	103.10	2.36	1.20	0.85	0.75	0.55	0.00	
28	0.10	1.85	1.20	37.58	1.71	145.10	2.13	1.15	0.85	0.75	0.55	0.00	
29	0.00	1.05	1.78	11.30	1.50	131.80	1.99	1.15	0.80	0.75		0.00	
30	0.05	0.80	1.05	6.76	1.40	224.00	1.92	1.15	0.80	0.75		0.00	
31		0.65		4.20	1.30		1.85		0.80	0.70		0.00	
TOTAL	*******	90.24	37.87	478.01	252.79	1005.96	372.25	43.78	29.25	30.08	17.50	12.06	******** CMSDAY
MEAN	*******	2.91	1.26	15.42	8.15	33.53	12.01	1.46	0.94	0.97	0.62	0.39	******* CMS
MAX	0.55	28.80	18.24	72.78	41.10	224.00	133.60	1.78	1.10	3.96	0.70	1.71	224.00 CMS
MIN	*******	0.00	0.25	0.65	1.30	1.25	1.85	1.15	0.80	0.70	0.55	0.00	******* CMS
RUNOFF	*******	7.797	3.272	41.300	21.841	86.915	32.162	3.783	2.527	2.599	1.512	1.042	******** MCM

MOMENTARY PEAK 287.50 CMS, AT 8.74 M (A.D), AT 9.00 HOURS, ON SEP 30, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 800.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 RAMAT BETWEEN DOI KALA AND DOI MAE PHASA, AMPHOE MAE SOT, TAK.

DRAINAGE AREA — 1,426 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — ALONG THE MEASURING LINE.

ELEVATION — +5.597 M. (A.D.)

GAGE READING FREQUENCY — 5-7 TIME DAILY READINGS AT 03.00, 06.00, 09.00, 12.00, 15.00, 18.00 AND 21.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5-7 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966-1969

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966-1969

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 150 DISCHARGE MEASUREMENTS MADE IN 1968.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

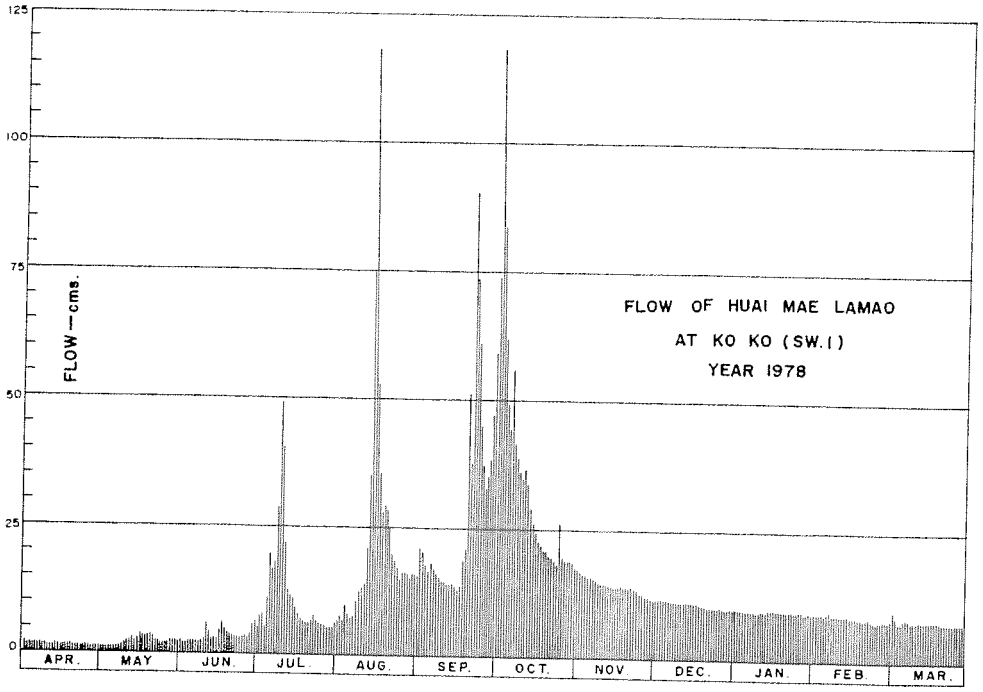
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.12	0.19	0.34	0.44	0.77	1.99	0.83	0.64	0.56	0.54	0.51	
2	0.15	0.12	0.19	0.49	0.48	0.96	3.08	0.81	0.64	0.55	0.54	0.56	
3	0.15	0.12	0.19	0.44	0.44	0.93	2.28	0.80	0.64	0.55	0.54	0.51	
4	0.15	0.12	0.21	0.36	0.55	0.83	1.88	0.78	0.63	0.55	0.54	0.45	
5	0.15	0.14	0.22	0.71	0.48	0.80	1.66	0.77	0.63	0.55	0.54	0.48	
6	0.15	0.13	0.21	0.92	0.44	0.86	1.55	0.77	0.63	0.55	0.54	0.50	
7	0.15	0.13	0.20	0.79	0.46	0.81	1.83	0.76	0.62	0.54	0.54	0.50	
8	0.15	0.13	0.19	0.88	0.60	0.77	1.50	0.75	0.61	0.54	0.53	0.48	
9	0.15	0.15	0.20	1.33	0.66	0.76	1.40	0.74	0.61	0.54	0.53	0.48	
10	0.15	0.18	0.29	1.69	0.67	0.73	1.35	0.74	0.61	0.54	0.52	0.48	
11	0.14	0.20	0.41	1.14	0.70	0.70	1.34	0.73	0.61	0.54	0.52	0.48	
12	0.14	0.22	0.32	0.88	0.89	0.71	1.39	0.72	0.61	0.54	0.52	0.47	
13	0.14	0.24	0.25	0.64	1.40	0.72	1.24	0.72	0.61	0.54	0.52	0.47	
14	0.14	0.20	0.26	0.61	3.08	0.71	1.16	0.71	0.60	0.55	0.51	0.48	
15	0.14	0.24	0.25	0.60	2.13	0.68	1.09	0.71	0.60	0.55	0.51	0.48	
16	0.14	0.30	0.35	0.52	1.40	0.67	1.04	0.70	0.60	0.55	0.51	0.47	
17	0.14	0.29	0.42	0.47	1.15	0.73	1.00	0.70	0.59	0.55	0.50	0.47	
18	0.13	0.25	0.36	0.42	1.19	0.91	0.97	0.72	0.59	0.55	0.50	0.47	
19	0.13	0.27	0.30	0.41	1.18	0.96	0.95	0.70	0.58	0.55	0.50	0.47	
20	0.13	0.29	0.28	0.40	1.14	1.73	0.95	0.70	0.58	0.55	0.50	0.46	
21	0.13	0.27	0.26	0.42	0.99	1.39	0.92	0.70	0.57	0.55	0.50	0.46	
22	0.13	0.22	0.25	0.44	0.90	2.56	0.90	0.69	0.57	0.55	0.50	0.46	
23	0.13	0.19	0.24	0.48	0.87	2.14	0.88	0.68	0.57	0.55	0.49	0.46	
24	0.13	0.18	0.24	0.42	0.81	1.88	0.87	0.68	0.57	0.54	0.49	0.46	
25	0.13	0.18	0.26	0.39	0.77	1.46	1.10	0.67	0.57	0.54	0.49	0.46	
26	0.13	0.18	0.27	0.38	0.80	1.35	0.89	0.67	0.57	0.54	0.49	0.45	
27	0.13	0.20	0.25	0.37	0.79	1.28	0.88	0.66	0.56	0.54	0.49	0.45	
28	0.12	0.22	0.27	0.36	0.77	1.42	0.89	0.65	0.56	0.54	0.48	0.45	
29	0.12	0.21	0.41	0.37	0.74	1.51	0.89	0.64	0.56	0.54		0.45	
30	0.12	0.20	0.43	0.35	0.79	1.88	0.89	0.64	0.56	0.54		0.44	
31		0.19		0.43	0.79		0.85		0.56	0.54		0.44	
MEAN	0.14	0.20	0.27	0.60	0.92	1.12	1.28	0.72	0.60	0.55	0.51	0.47	
MAX	0.16	0.30	0.43	1.69	3.08	2.56	3.08	0.83	0.64	0.56	0.54	0.56	3.08
MIN	0.12	0.12	0.19	0.34	0.44	0.67	0.85	0.64	0.56	0.54	0.48	0.44	0.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.53 M (A.D), AT 12.00 HOURS, ON OCT 2, 1978

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 1426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.80	1.20	2.25	4.80	6.88	15.56	62.94	17.24	11.92	9.76	9.24	8.46	
2	1.65	1.20	2.25	7.98	7.76	21.00	117.80	16.68	11.92	9.50	9.24	9.76	
3	1.65	1.20	2.25	6.88	6.88	20.10	76.28	16.40	11.92	9.50	9.24	8.46	
4	1.65	1.20	2.56	5.20	9.50	17.24	57.68	15.84	11.64	9.50	9.24	7.10	
5	1.65	1.50	2.72	13.88	7.76	16.40	48.00	15.56	11.64	9.50	9.24	7.76	
6	1.65	1.35	2.56	19.80	6.88	18.08	43.60	15.56	11.64	9.50	9.24	8.20	
7	1.65	1.35	2.40	16.12	7.32	16.68	55.58	15.28	11.36	9.24	9.24	8.20	
8	1.65	1.35	2.25	18.64	10.80	15.56	41.60	15.00	11.08	9.24	8.98	7.76	
9	1.65	1.65	2.40	34.80	12.48	15.28	37.60	14.72	11.08	9.24	8.98	7.76	
10	1.65	2.10	3.84	49.20	12.76	14.44	35.60	14.72	11.08	9.24	8.72	7.76	
11	1.50	2.40	6.22	27.52	13.60	13.60	35.20	14.44	11.08	9.24	8.72	7.76	
12	1.50	2.72	4.40	18.64	18.92	13.88	37.20	14.16	11.08	9.24	8.72	7.54	
13	1.50	3.04	3.20	11.92	37.60	14.16	31.32	14.16	11.08	9.24	8.72	7.54	
14	1.50	2.40	3.36	11.08	117.80	13.88	28.28	13.88	10.80	9.50	8.46	7.76	
15	1.50	3.04	3.20	10.80	69.38	13.04	25.62	13.88	10.80	9.50	8.46	7.76	
16	1.50	4.00	5.00	8.72	37.60	12.76	23.72	13.60	10.80	9.50	8.46	7.54	
17	1.50	3.84	6.44	7.54	27.90	14.44	22.20	13.60	10.54	9.50	8.20	7.54	
18	1.35	3.20	5.20	6.44	29.42	19.50	21.30	14.16	10.54	9.50	8.20	7.54	
19	1.35	3.52	4.00	6.22	29.04	21.00	20.70	13.60	10.28	9.50	8.20	7.54	
20	1.35	3.84	3.68	6.00	27.52	50.98	20.70	13.60	10.28	9.50	8.20	7.32	
21	1.35	3.52	3.36	6.44	21.90	37.20	19.80	13.60	10.02	9.50	8.20	7.32	
22	1.35	2.72	3.20	6.88	19.20	90.00	19.20	13.32	10.02	9.50	8.20	7.32	
23	1.35	2.25	3.04	7.76	18.36	69.84	18.64	13.04	10.02	9.50	7.98	7.32	
24	1.35	2.10	3.04	6.44	16.68	57.88	18.36	13.04	10.02	9.24	7.98	7.32	
25	1.35	2.10	3.36	5.80	15.56	40.00	26.00	12.76	10.02	9.24	7.98	7.32	
26	1.35	2.10	3.52	5.60	16.40	35.60	18.92	12.76	10.02	9.24	7.98	7.10	
27	1.35	2.40	3.20	5.40	16.12	32.84	18.64	12.48	9.76	9.24	7.98	7.10	
28	1.20	2.72	3.52	5.20	15.56	38.40	18.92	12.20	9.76	9.24	7.76	7.10	
29	1.20	2.56	6.22	5.40	14.72	42.00	18.92	11.92	9.76	9.24		7.10	
30	1.20	2.40	6.66	5.00	16.12	57.88	18.92	11.92	9.76	9.24		6.88	
31		2.25		6.66	16.12		17.80		9.76	9.24		6.88	
TOTAL	44.25	73.22	109.30	358.76	684.54	859.22	1057.24	423.12	331.48	290.86	239.76	235.82	4707
MEAN	1.47	2.36	3.64	11.57	22.08	28.64	34.10	14.10	10.69	9.38	8.56	7.61	1
MAX	1.80	4.00	6.66	49.20	117.80	90.00	117.80	17.24	11.92	9.76	9.24	9.76	1
MIN	1.20	1.20	2.25	4.80	6.88	12.76	17.80	11.92	9.76	9.24	7.76	6.88	
RUNOFF	3.823	6.326	9.444	30.997	59.144	74.237	91.345	36.558	28.640	25.130	20.715	20.375	4

MOMENTARY PEAK 144.80 CMS, AT 3.53 M (A.D), AT 12.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 9.04 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 101.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — ABOUT 6.25 METERS FROM AUTOMATIC GAGE BUILDING.

ELEVATION — +10.386 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC 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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 180 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

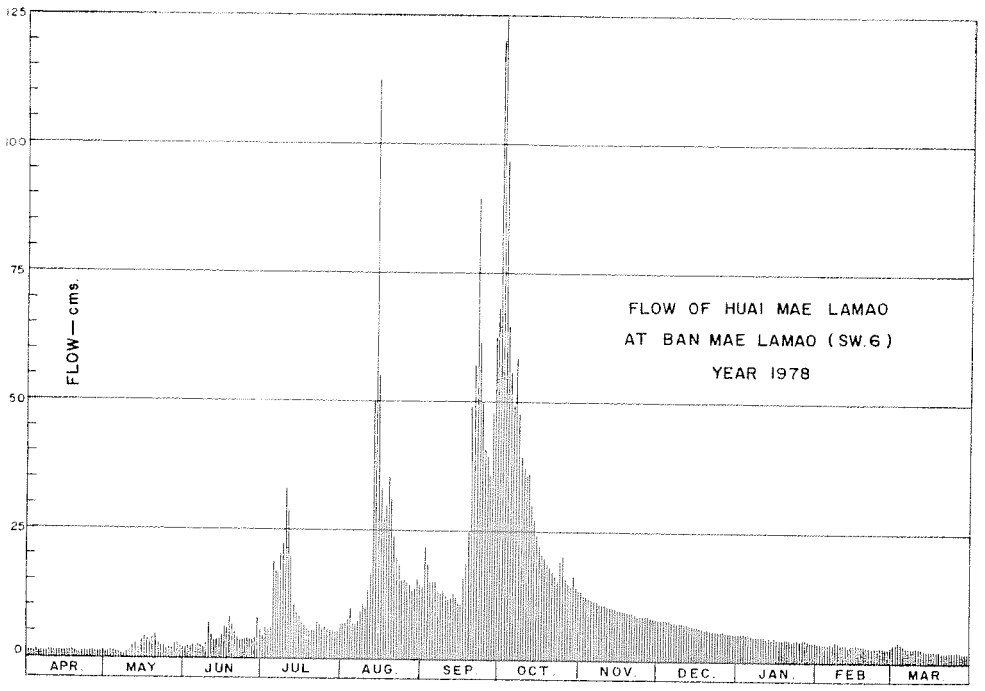
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.68	0.65	0.73	0.85	0.97	1.26	3.60	1.21	1.02	0.91	0.82	0.82	
2	0.67	0.65	0.75	0.94	1.00	1.50	3.73	1.20	1.01	0.91	0.82	0.85	
3	0.67	0.67	0.73	0.92	1.02	1.36	2.84	1.18	1.01	0.90	0.81	0.82	
4	0.67	0.67	0.76	0.94	1.11	1.28	2.45	1.17	1.01	0.90	0.81	0.80	
5	0.67	0.65	0.77	1.42	0.97	1.29	2.25	1.15	1.00	0.90	0.81	0.79	
6	0.67	0.65	0.73	1.32	0.98	1.27	2.17	1.15	1.00	0.89	0.81	0.78	
7	0.67	0.64	0.74	1.35	1.01	1.22	2.37	1.15	1.00	0.88	0.82	0.76	
8	0.67	0.67	0.73	1.50	1.09	1.21	2.03	1.14	1.00	0.88	0.82	0.76	
9	0.67	0.69	0.79	1.58	1.14	1.22	1.94	1.13	0.99	0.89	0.82	0.76	
10	0.67	0.70	0.98	1.79	1.10	1.19	1.88	1.12	0.99	0.88	0.81	0.76	
11	0.67	0.75	0.87	1.64	1.29	1.17	1.86	1.12	0.98	0.88	0.81	0.76	
12	0.68	0.78	0.81	1.27	1.36	1.20	1.87	1.11	0.98	0.87	0.80	0.75	
13	0.68	0.72	0.84	1.07	2.62	1.22	1.73	1.11	0.97	0.87	0.80	0.74	
14	0.69	0.74	0.84	1.06	3.42	1.17	1.63	1.10	0.96	0.86	0.79	0.74	
15	0.69	0.84	0.89	1.02	2.28	1.13	1.57	1.09	0.96	0.86	0.79	0.74	
16	0.68	0.85	0.95	0.99	1.78	1.15	1.51	1.09	0.96	0.86	0.79	0.74	
17	0.68	0.84	0.94	0.95	1.65	1.37	1.46	1.08	0.96	0.86	0.79	0.73	
18	0.68	0.79	1.05	0.92	1.76	1.43	1.43	1.08	0.95	0.86	0.79	0.73	
19	0.67	0.86	0.98	0.91	1.85	1.70	1.39	1.07	0.94	0.86	0.78	0.73	
20	0.66	0.86	0.89	0.92	1.65	2.29	1.37	1.07	0.94	0.85	0.78	0.72	
21	0.66	0.79	0.83	0.92	1.51	2.40	1.35	1.06	0.94	0.85	0.78	0.72	
22	0.66	0.73	0.80	0.99	1.42	3.00	1.32	1.05	0.93	0.85	0.77	0.72	
23	0.65	0.72	0.82	0.97	1.39	2.36	1.30	1.05	0.93	0.85	0.78	0.72	
24	0.65	0.71	0.84	0.92	1.30	2.13	1.42	1.05	0.93	0.85	0.78	0.72	
25	0.65	0.70	0.82	0.94	1.30	1.97	1.45	1.05	0.93	0.85	0.77	0.72	
26	0.65	0.71	0.81	0.92	1.27	1.94	1.30	1.05	0.93	0.85	0.77	0.72	
27	0.65	0.77	0.81	0.90	1.27	1.86	1.27	1.04	0.92	0.84	0.76	0.72	
28	0.65	0.77	0.87	0.90	1.23	2.23	1.27	1.03	0.92	0.84	0.76	0.72	
29	0.65	0.75	1.04	0.92	1.24	2.47	1.32	1.03	0.92	0.84		0.71	
30	0.65	0.73	0.91	0.92	1.31	2.60	1.27	1.03	0.91	0.83		0.71	
31		0.72		0.98	1.26		1.23		0.91	0.82		0.70	
MEAN	0.67	0.73	0.84	1.09	1.44	1.65	1.79	1.10	0.96	0.87	0.79	0.75	
MAX	0.69	0.86	1.05	1.79	3.42	3.00	3.73	1.21	1.02	0.91	0.82	0.85	3.73
MIN	0.65	0.64	0.73	0.85	0.97	1.13	1.23	1.03	0.91	0.82	0.76	0.70	0.64

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.30 M (A.D), AT 21.00 HOURS, ON OCT 1, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.10 M (A.D)

LEFT BANK ELEVATION 12.22 M (A.D)

RIGHT BANK ELEVATION 6.98 M (A.D), DRAINAGE AREA 1038 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.28	0.80	2.08	4.10	6.61	14.20	122.20	12.70	7.80	5.23	3.56	3.56	
2	1.12	0.80	2.40	5.92	7.30	21.80	129.61	12.40	7.55	5.23	3.56	4.10	
3	1.12	1.12	2.08	5.46	7.80	17.26	81.30	11.88	7.55	5.00	3.38	3.56	
4	1.12	1.12	2.56	5.92	10.06	14.80	62.05	11.62	7.55	5.00	3.38	3.20	
5	1.12	0.80	2.72	19.16	6.61	15.10	52.85	11.10	7.30	5.00	3.38	3.04	
6	1.12	0.80	2.08	16.02	6.84	14.50	49.28	11.10	7.30	4.82	3.38	2.88	
7	1.12	0.64	2.24	16.95	7.55	13.00	58.32	11.10	7.30	4.64	3.56	2.56	
8	1.12	1.12	2.08	21.80	9.55	12.70	43.12	10.84	7.30	4.64	3.56	2.56	
9	1.12	1.44	3.04	24.58	10.84	13.00	39.16	10.58	7.07	4.82	3.56	2.56	
10	1.12	1.60	6.84	32.80	9.80	12.14	36.56	10.32	7.07	4.64	3.38	2.56	
11	1.12	2.40	4.46	26.92	15.10	11.62	35.72	10.32	6.84	4.64	3.38	2.56	
12	1.28	2.88	3.38	14.50	17.26	12.40	36.14	10.06	6.84	4.46	3.20	2.40	
13	1.28	1.92	3.92	9.05	70.30	13.00	30.40	10.06	6.61	4.46	3.20	2.24	
14	1.44	2.24	3.92	8.80	112.12	11.62	26.54	9.80	6.38	4.28	3.04	2.24	
15	1.44	3.92	4.82	7.80	54.20	10.58	24.32	9.55	6.38	4.28	3.04	2.24	
16	1.28	4.10	6.15	7.07	32.40	11.10	22.16	9.55	6.38	4.28	3.04	2.24	
17	1.28	3.92	5.92	6.15	27.30	17.57	20.48	9.30	6.38	4.28	3.04	2.08	
18	1.28	3.04	8.55	5.46	31.60	19.49	19.49	9.30	6.15	4.28	3.04	2.08	
19	1.12	4.28	6.84	5.23	35.30	29.20	18.19	9.05	5.92	4.28	2.88	2.08	
20	0.96	4.28	4.82	5.46	27.30	54.65	17.57	9.05	5.92	4.10	2.88	1.92	
21	0.96	3.04	3.74	5.46	22.16	59.70	16.95	8.80	5.92	4.10	2.88	1.92	
22	0.96	2.08	3.20	7.07	19.16	89.40	16.02	8.55	5.69	4.10	2.72	1.92	
23	0.80	1.92	3.56	6.61	18.19	57.86	15.40	8.55	5.69	4.10	2.88	1.92	
24	0.80	1.76	3.92	5.46	15.40	47.52	19.16	8.55	5.69	4.10	2.88	1.92	
25	0.80	1.60	3.56	5.92	15.40	40.48	20.15	8.55	5.69	4.10	2.72	1.92	
26	0.80	1.76	3.38	5.46	14.50	39.16	15.40	8.55	5.69	4.10	2.72	1.92	
27	0.80	2.72	3.38	5.00	14.50	35.72	14.50	8.30	5.46	3.92	2.56	1.92	
28	0.80	2.72	4.46	5.00	13.30	51.95	14.50	8.05	5.46	3.92	2.56	1.92	
29	0.80	2.40	8.30	5.46	13.60	62.99	16.02	8.05	5.46	3.92		1.76	
30	0.80	2.08	5.23	5.46	15.71	69.30	14.50	8.05	5.23	3.74		1.76	
31		1.92		6.84	14.20		13.30		5.23	3.56		1.60	
TOTAL	32.16	67.22	123.63	312.99	681.96	893.81	1101.36	293.68	198.80	136.02	87.36	73.14	4002.12 CMSDAY
MEAN	1.07	2.17	4.12	10.10	22.00	29.79	35.53	9.79	6.41	4.39	3.12	2.36	10.96 CMS
MAX	1.44	4.28	8.55	32.80	112.12	89.40	129.61	12.70	7.80	5.23	3.56	4.10	129.61 CMS
MIN	0.80	0.64	2.08	4.10	6.61	10.58	13.30	8.05	5.23	3.56	2.56	1.60	0.64 CMS
RUNOFF	2.779	5.808	10.682	27.042	58.921	77.225	95.157	25.374	17.176	11.752	7.548	6.319	345.783 MCM

MOMENTARY PEAK 228.00 CMS, AT 5.30 M (A.D), AT 21.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 10.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 219.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KOK RIVER BASIN

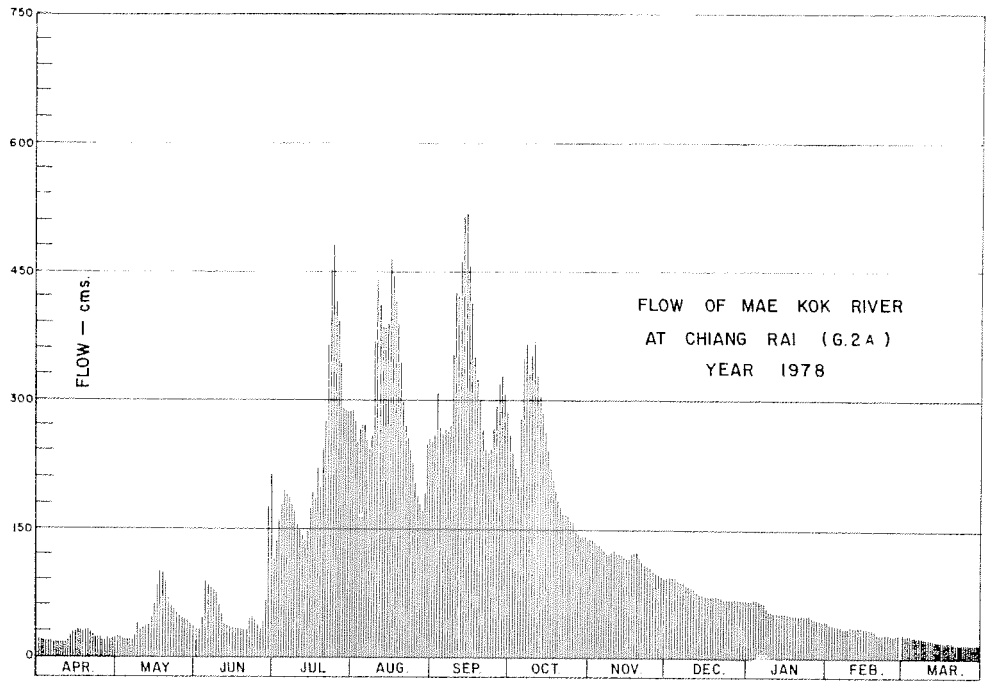
MAE KOK RIVER AT CHIANG RAI, CHIANG RAI. (G.2A)

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.S.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+392.602 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1958 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1958-1960, 1967-1971
RATED BY FLOAT	-
RATED BY CURRENT METER	1958-1960, 1967-1971
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BY SOME SILTING, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 95 DISCHARGE MEASUREMENTS MADE IN 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	390.60	390.62	390.72	391.38	391.84	391.73	391.76	391.33	391.12	390.96	390.78	390.65	
2	390.59	390.61	390.69	391.22	391.81	391.77	391.70	391.33	391.12	390.96	390.76	390.64	
3	390.58	390.60	390.70	391.42	391.73	391.90	391.65	391.32	391.11	390.97	390.75	390.64	
4	390.58	390.59	390.94	391.51	391.79	391.78	391.60	391.31	391.11	390.96	390.74	390.63	
5	390.57	390.60	391.09	391.54	391.81	391.76	391.74	391.30	391.10	390.96	390.74	390.62	
6	390.56	390.60	391.06	391.53	391.77	391.78	392.02	391.28	391.08	390.95	390.73	390.62	
7	390.55	390.59	391.04	391.52	391.70	391.77	392.07	391.26	391.08	390.93	390.72	390.61	
8	390.54	390.62	391.03	391.50	391.72	391.80	391.97	391.25	391.06	390.88	390.72	390.61	
9	390.53	390.79	391.00	391.47	392.05	392.18	392.04	391.26	391.05	390.86	390.72	390.60	
10	390.54	390.71	390.94	391.42	392.27	392.23	392.07	391.28	391.04	390.86	390.73	390.60	
11	390.55	390.69	390.87	391.39	392.25	392.22	392.00	391.26	391.03	390.85	390.72	390.60	
12	390.60	390.73	390.78	391.35	392.15	392.34	391.92	391.26	391.02	390.85	390.72	390.59	
13	390.65	390.73	390.75	391.32	392.12	392.45	391.86	391.25	391.01	390.85	390.72	390.59	
14	390.67	390.77	390.74	391.35	392.12	392.46	391.80	391.23	391.00	390.85	390.72	390.58	
15	390.68	390.86	390.72	391.47	392.24	392.34	391.75	391.23	391.00	390.85	390.71	390.58	
16	390.69	390.94	390.72	391.54	392.33	392.24	391.69	391.23	391.00	390.85	390.71	390.58	
17	390.69	391.06	390.71	391.51	392.24	392.12	391.63	391.26	391.00	390.84	390.70	390.57	
18	390.68	391.15	390.70	391.63	392.20	391.98	391.57	391.26	391.00	390.84	390.69	390.57	
19	390.70	391.13	390.70	391.56	392.07	391.89	391.53	391.25	391.00	390.84	390.68	390.56	
20	390.71	391.08	390.70	391.64	391.93	391.79	391.49	391.23	391.00	390.83	390.66	390.55	
21	390.68	391.02	390.70	391.79	391.85	391.73	391.46	391.21	390.98	390.83	390.66	390.54	
22	390.63	390.93	390.80	391.95	391.79	391.70	391.44	391.20	390.97	390.83	390.66	390.54	
23	390.62	390.91	390.83	392.29	391.73	391.69	391.44	391.20	390.96	390.83	390.66	390.54	
24	390.62	390.88	390.78	392.37	391.66	391.74	391.42	391.18	390.96	390.83	390.65	390.53	
25	390.60	390.85	390.75	392.25	391.59	391.80	391.40	391.16	390.96	390.82	390.65	390.53	
26	390.56	390.83	390.72	392.18	391.53	391.89	391.37	391.15	390.96	390.81	390.64	390.53	
27	390.60	390.81	390.68	392.03	391.50	391.94	391.36	391.13	390.96	390.80	390.65	390.53	
28	390.59	390.80	390.93	391.87	391.46	391.96	391.34	391.13	390.96	390.80	390.65	390.53	
29	390.59	390.78	391.43	391.85	391.54	391.89	391.34	391.12	390.96	390.80		390.53	
30	390.59	390.76	391.61	391.84	391.72	391.81	391.34	391.12	390.96	390.79		390.53	
31		390.73		391.84	391.74		391.33		390.96	390.78		390.53	
MEAN	390.61	390.80	390.86	391.66	391.88	391.96	391.65	391.23	391.02	390.86	390.70	390.58	
MAX	390.71	391.15	391.61	392.37	392.33	392.46	392.07	391.33	391.12	390.97	390.78	390.65	392.46
MIN	390.53	390.59	390.68	391.22	391.46	391.69	391.33	391.12	390.96	390.78	390.64	390.53	390.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 392.52 M (MSL), AT 1.00 HOURS, ON SEP 3, 1976
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	22.00	24.00	34.40	150.99	287.20	250.91	260.79	138.49	93.80	66.80	41.60	27.00	
2	21.15	23.00	31.00	113.40	277.30	264.09	241.00	138.49	93.80	66.30	39.20	26.00	
3	20.30	22.00	32.00	161.20	250.91	307.00	226.00	135.99	91.90	68.35	38.00	26.00	
4	20.30	21.15	63.69	184.89	270.70	267.40	211.00	133.50	91.90	66.80	36.80	25.00	
5	19.45	22.00	88.30	193.60	277.30	260.79	254.21	131.00	90.00	66.80	36.80	24.00	
6	18.60	22.00	83.20	190.69	264.09	267.40	349.19	126.60	86.60	65.25	35.60	24.00	
7	17.75	21.15	79.80	187.79	241.00	264.09	367.19	122.19	86.60	62.15	34.40	23.00	
8	16.90	24.00	78.10	182.00	247.60	274.00	331.49	120.01	83.20	54.80	34.40	22.00	
9	16.05	42.80	73.00	174.20	360.00	406.81	356.40	122.19	81.50	52.10	34.40	22.00	
10	16.90	33.20	63.69	161.20	440.59	425.41	367.19	126.60	79.80	52.10	35.60	22.00	
11	17.75	31.00	53.45	153.50	433.01	421.60	342.00	122.19	78.10	50.75	34.40	22.00	
12	22.00	35.60	41.60	143.50	396.00	468.00	314.00	122.19	76.39	50.75	34.40	21.15	
13	27.00	35.60	38.00	135.99	385.21	512.49	293.80	120.01	74.69	50.75	34.40	21.15	
14	29.00	40.40	36.80	143.50	385.21	516.60	274.00	115.60	73.00	50.75	34.40	20.30	
15	30.00	52.10	34.40	174.20	429.21	468.00	257.51	115.60	73.00	50.75	33.20	20.30	
16	31.00	63.69	34.40	193.60	463.99	429.21	238.00	115.60	73.00	50.75	33.20	20.30	
17	31.00	83.20	33.20	184.89	429.21	385.21	219.99	122.19	73.00	49.40	32.00	19.45	
18	30.00	99.50	32.00	219.99	414.00	335.00	202.29	122.19	73.00	49.40	31.00	19.45	
19	32.00	95.70	32.00	199.40	367.19	303.70	190.69	120.01	73.00	49.40	30.00	18.60	
20	33.20	86.60	32.00	223.00	317.51	270.70	179.40	115.60	73.00	48.05	28.00	17.75	
21	30.00	76.39	32.00	270.70	290.50	250.91	171.59	111.20	69.90	48.05	28.00	16.90	
22	25.00	62.15	44.00	324.49	270.70	241.00	166.39	109.00	68.35	48.05	28.00	16.90	
23	24.00	59.05	48.05	448.20	250.91	238.00	166.39	109.00	66.80	48.05	28.00	16.90	
24	24.00	54.80	41.60	480.01	229.00	254.21	161.20	105.21	66.80	48.05	27.00	16.05	
25	22.00	50.75	38.00	433.01	208.10	274.00	156.00	101.40	66.80	46.70	27.00	16.05	
26	18.60	48.05	34.40	406.81	190.69	303.70	148.51	99.50	66.80	45.35	26.00	16.05	
27	22.00	45.35	30.00	352.79	182.00	320.99	146.00	95.70	66.80	44.00	27.00	16.05	
28	21.15	44.00	62.15	297.11	171.59	327.99	141.00	95.70	66.80	44.00	27.00	16.05	
29	21.15	41.60	163.80	290.50	193.60	303.70	141.00	93.80	66.80	44.00		16.05	
30	21.15	39.20	214.00	287.20	247.60	277.30	141.00	93.80	66.80	42.80		16.05	
31		35.60		287.20	254.21		138.49		66.80	41.60		16.05	
TOTAL	701.40	1435.63	1703.03	7349.54	9426.12	9890.20	7153.70	3500.55	2358.73	1623.35	909.80	621.55	46673.57 CMSDAY
MEAN	23.38	46.31	56.77	237.08	304.07	329.67	230.76	116.68	76.09	52.37	32.49	20.05	127.87 CMS
MAX	33.20	99.50	214.00	480.01	463.99	516.60	367.19	138.49	93.80	68.35	41.60	27.00	516.60 CMS
MIN	16.05	21.15	30.00	113.40	171.59	238.00	138.49	93.80	66.80	41.60	26.00	16.05	16.05 CMS
RUNOFF	60.601	124.038	147.142	635.000	814.417	854.513	618.080	302.447	203.794	140.257	78.607	53.702	4032.596 MCM

MOMENTARY PEAK 541.19 CMS, AT 392.52 M (MSL), AT 1.00 HOURS, ON SEP 3, 1978

RUNOFF YIELD 21.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 89.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KHONG RIVER BASIN

HUAI MONG AT BAN NA ANG, UDON THANI (KH.18)

LOCATION — LAT. 17°-34'-39" N., LONG. 102°-20'-19" E., ON RIGHT BANK ABOUT 300 METERS DOWNSTREAM FROM CONFLUENCE OF HUAI NAM BAN AND HUAI PAK KONG, AMPHOE BAN PHU, UDON THANI.

DRAINAGE AREA — 1,307 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

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

BENCH MARK — B.M.-H.S.

LOCATION — ON RIGHT BANK NEAR THE 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.

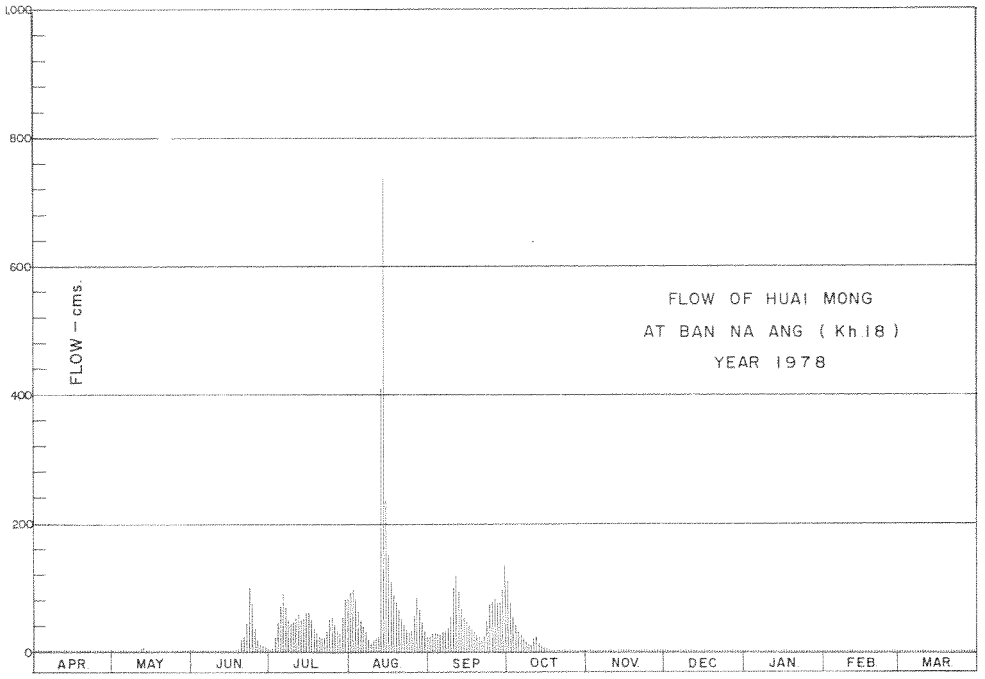
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +6.80 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 136 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.14	1.48	2.05	1.87	6.96	4.22	7.18	1.42	1.81	1.30	1.10	0.94	
2	1.15	1.53	1.90	2.10	7.06	4.63	6.73	1.29	1.75	1.29	1.10	0.94	
3	1.16	1.55	1.62	4.14	6.84	4.73	6.16	1.19	1.68	1.30	1.10	0.91	
4	1.17	1.57	1.39	5.73	6.43	4.65	5.51	1.16	1.66	1.32	1.09	0.93	
5	1.19	1.78	1.28	6.61	5.93	4.64	4.86	1.25	1.68	1.42	1.00	0.91	
6	1.20	1.93	1.25	6.95	5.45	4.81	4.52	1.23	1.65	1.41	1.00	0.89	
7	1.21	1.36	1.28	6.60	4.87	4.89	4.11	1.26	1.56	1.36	0.98	0.89	
8	1.22	1.18	1.39	5.92	3.83	5.23	3.63	1.37	1.54	1.11	0.96	0.89	
9	1.25	1.07	1.35	5.67	3.24	6.33	3.23	1.47	1.55	1.18	0.95	0.89	
10	1.29	1.00	1.45	5.88	3.68	7.06	3.03	1.50	1.54	1.21	0.98	0.93	
11	1.32	1.31	1.42	6.19	4.13	7.25	4.09	1.65	1.56	1.15	0.98	0.92	
12	1.35	2.31	1.42	6.30	4.41	6.98	4.38	1.69	1.56	1.18	0.98	0.90	
13	1.36	2.48	1.49	6.04	7.54	6.56	3.35	1.78	1.53	1.20	0.99	0.86	
14	1.21	1.85	1.59	6.16	8.64	6.14	2.86	1.91	1.47	1.22	0.99	0.93	
15	1.13	1.67	1.47	6.38	7.84	5.91	2.58	1.92	1.44	1.29	0.96	0.90	
16	1.14	1.74	1.27	6.42	7.48	5.62	2.28	1.94	1.48	1.33	1.04	0.93	
17	1.17	1.68	1.22	5.96	7.19	5.24	2.04	1.96	1.51	1.33	1.04	0.90	
18	1.20	1.76	1.24	5.27	6.91	4.94	1.90	1.96	1.48	1.19	1.04	0.88	
19	1.23	1.71	1.90	4.66	6.75	4.55	1.74	1.83	1.45	1.16	1.00	0.88	
20	1.25	1.62	3.88	4.30	6.55	4.17	1.67	1.81	1.40	1.15	0.95	0.89	
21	1.27	1.51	4.31	4.11	6.10	3.76	1.69	1.83	1.37	1.15	0.92	0.89	
22	1.29	1.38	5.66	4.06	5.57	4.41	1.60	1.87	1.37	1.16	0.93	0.88	
23	1.30	1.26	7.05	4.98	5.09	5.93	1.54	1.85	1.35	1.15	0.97	0.89	
24	1.31	1.22	6.71	6.01	4.76	6.67	1.52	1.81	1.31	1.14	0.92	0.88	
25	1.31	1.27	5.39	6.15	5.00	6.77	1.59	1.77	1.33	1.16	0.90	0.88	
26	1.31	1.36	3.80	5.56	6.21	6.84	1.72	1.77	1.37	1.19	0.93	0.88	
27	1.31	1.25	2.82	4.97	6.85	6.71	1.71	1.78	1.36	1.22	0.91	0.87	
28	1.31	1.28	2.74	4.67	6.50	6.75	1.69	1.77	1.36	1.17	0.90	0.87	
29	1.33	1.63	2.52	6.09	5.73	7.05	1.55	1.76	1.35	1.12		0.86	
30	1.40	1.57	2.18	6.80	4.93	7.37	1.51	1.82	1.23	1.09		0.84	
31		1.76		6.80	4.11		1.41		1.33	1.09		0.83	
MEAN	1.25	1.55	2.50	5.46	5.89	5.69	3.01	1.65	1.48	1.22	0.99	0.89	
MAX	1.40	2.48	7.05	6.95	8.64	7.37	7.18	1.96	1.81	1.42	1.10	0.94	8.64
MIN	1.13	1.00	1.22	1.87	3.24	3.76	1.41	1.16	1.23	1.09	0.90	0.83	0.83

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.10 M (A.D), AT 1.00 HOURS, ON AUG 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.08 M (A.D)
LEFT BANK ELEVATION 8.73 M (A.D)
RIGHT BANK ELEVATION 9.45 M (A.D), DRAINAGE AREA 1307 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.78	1.64	3.75	2.88	91.20	23.42	110.50	1.46	2.64	1.10	0.70	0.38	
2	0.80	1.79	3.00	4.10	99.10	28.09	77.15	1.08	2.45	1.08	0.70	0.38	
3	0.82	1.85	2.06	22.54	83.40	29.39	54.80	0.88	2.24	1.10	0.70	0.32	
4	0.84	1.91	1.37	45.17	63.05	28.35	41.18	0.82	2.18	1.16	0.68	0.36	
5	0.88	2.54	1.06	71.00	49.13	28.22	31.08	1.00	2.24	1.46	0.50	0.32	
6	0.90	3.12	1.00	90.50	40.10	30.43	26.74	0.96	2.15	1.43	0.50	0.29	
7	0.92	1.28	1.06	70.50	31.21	31.47	22.21	1.02	1.88	1.28	0.46	0.29	
8	0.94	0.86	1.37	48.92	19.13	36.45	17.00	1.31	1.82	0.72	0.42	0.29	
9	1.00	0.64	1.25	44.06	13.10	59.90	13.00	1.61	1.85	0.86	0.40	0.29	
10	1.08	0.50	1.55	48.10	17.50	99.10	11.07	1.70	1.82	0.92	0.46	0.36	
11	1.16	1.13	1.46	55.70	22.43	118.50	21.99	2.15	1.88	0.80	0.46	0.34	
12	1.25	5.57	1.46	59.00	25.51	92.60	25.18	2.27	1.88	0.86	0.46	0.30	
13	1.28	6.76	1.67	51.56	160.90	68.50	14.20	2.54	1.79	0.90	0.48	0.26	
14	0.92	2.80	1.97	54.80	736.40	54.20	9.54	3.04	1.61	0.94	0.48	0.36	
15	0.76	2.21	1.61	61.40	236.80	48.71	7.46	3.08	1.52	1.08	0.42	0.30	
16	0.78	2.42	1.04	62.70	150.40	43.16	5.36	3.16	1.64	1.19	0.58	0.36	
17	0.84	2.24	0.94	49.76	111.50	36.60	3.68	3.24	1.73	1.19	0.58	0.30	
18	0.90	2.48	0.98	37.05	87.70	32.16	3.00	3.24	1.64	0.88	0.58	0.28	
19	0.96	2.33	3.00	28.48	78.25	27.10	2.42	2.72	1.55	0.82	0.50	0.28	
20	1.00	2.06	19.68	24.30	68.00	22.87	2.21	2.64	1.40	0.80	0.40	0.29	
21	1.04	1.73	24.41	22.21	53.00	18.36	2.27	2.72	1.31	0.80	0.34	0.29	
22	1.08	1.34	43.88	21.66	42.26	25.51	2.00	2.88	1.31	0.82	0.36	0.28	
23	1.10	1.02	98.25	32.72	34.35	49.13	1.82	2.80	1.25	0.80	0.44	0.29	
24	1.13	0.94	76.05	50.84	29.78	74.00	1.76	2.64	1.13	0.78	0.34	0.28	
25	1.13	1.04	39.03	54.50	33.00	79.35	1.97	2.51	1.19	0.82	0.30	0.28	
26	1.13	1.28	18.80	42.08	56.30	83.40	2.36	2.51	1.31	0.88	0.36	0.28	
27	1.13	1.00	9.18	32.58	84.00	76.05	2.33	2.54	1.28	0.94	0.32	0.27	
28	1.13	1.06	8.58	28.61	65.50	78.25	2.27	2.51	1.28	0.84	0.30	0.27	
29	1.19	2.09	7.04	52.76	45.17	98.25	1.85	2.48	1.25	0.74		0.26	
30	1.40	1.91	4.66	81.00	32.02	133.95	1.73	2.68	0.96	0.68		0.24	
31		2.48		81.00	22.21		1.43		1.19	0.68		0.23	
TOTAL	30.27	62.02	381.16	1432.48	2682.40	1655.47	521.56	66.19	51.37	29.35	13.22	9.32	6934.80 CMSDAY
MEAN	1.01	2.00	12.71	46.21	86.53	55.18	16.82	2.21	1.66	0.95	0.47	0.30	19.00 CMS
MAX	1.40	6.76	98.25	90.50	736.40	133.95	110.50	3.24	2.64	1.46	0.70	0.38	736.40 CMS
MIN	0.76	0.50	0.94	2.88	13.10	18.36	1.43	0.82	0.96	0.68	0.30	0.23	0.23 CMS
RUNOFF	2.615	5.359	32.932	123.766	231.759	143.032	45.063	5.719	4.438	2.536	1.142	0.805	599.167 MCM

MOMENTARY PEAK 1380.00 CMS, AT 9.10 M (A.D), AT 1.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 14.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1055.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KHONG RIVER BASIN

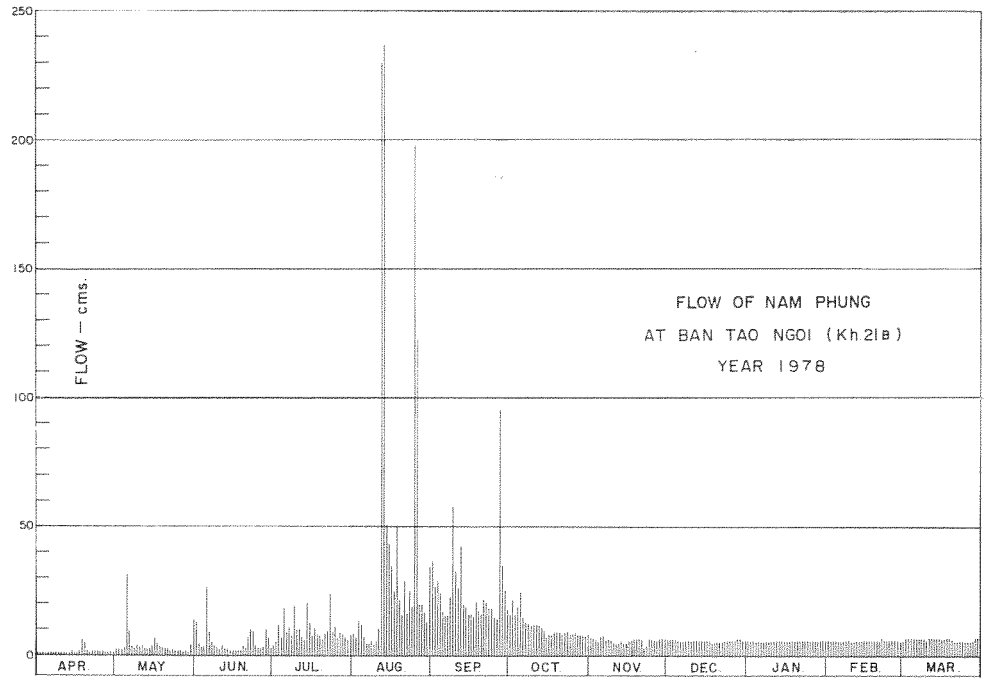
NAM PHUNG AT BAN TAO NGOI, SAKON NAKHON (KH.21B)

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	FAIRLY 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 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	171.23	171.70	171.35	171.54	172.21	171.80	171.52	171.46	171.44	171.45	171.44	
2	*******	171.26	171.39	171.40	171.48	172.03	171.91	171.50	171.46	171.45	171.44	171.49	
3	*******	171.22	171.31	171.65	171.70	172.07	171.77	171.49	171.46	171.45	171.44	171.50	
4	*******	171.25	171.27	171.46	171.66	171.98	171.87	171.46	171.47	171.45	171.44	171.49	
5	*******	172.11	172.02	171.83	171.48	171.81	172.00	171.51	171.44	171.44	171.44	171.49	
6	171.10	171.56	171.54	171.55	171.37	171.76	171.77	171.52	171.42	171.43	171.43	171.49	
7	171.11	171.34	171.40	171.62	171.39	171.76	171.71	171.49	171.43	171.44	171.44	171.49	
8	171.09	171.30	171.33	171.51	171.42	171.95	171.70	171.47	171.44	171.45	171.44	171.49	
9	171.07	171.33	171.31	171.85	171.34	172.50	171.66	171.47	171.45	171.45	171.44	171.49	
10	171.06	171.28	171.27	171.59	171.41	172.13	171.69	171.41	171.44	171.45	171.42	171.44	
11	171.12	171.32	171.35	171.59	171.60	172.02	171.67	171.40	171.44	171.45	171.43	171.49	
12	171.12	171.25	171.25	171.47	173.97	172.29	171.66	171.43	171.44	171.45	171.43	171.49	
13	171.12	171.25	171.25	171.45	174.03	171.88	171.65	171.45	171.45	171.44	171.43	171.49	
14	171.14	171.26	171.19	171.88	172.41	171.85	171.64	171.40	171.44	171.45	171.43	171.50	
15	171.11	171.33	171.20	171.67	172.30	171.78	171.50	171.43	171.44	171.44	171.44	171.49	
16	171.13	171.65	171.21	171.51	172.17	171.78	171.54	171.43	171.44	171.44	171.44	171.48	
17	171.19	171.38	171.19	171.62	172.00	171.76	171.54	171.46	171.44	171.45	171.45	171.49	
18	171.43	171.31	171.21	171.53	172.40	171.90	171.56	171.46	171.40	171.45	171.45	171.50	
19	171.38	171.29	171.30	171.51	171.91	171.82	171.58	171.47	171.43	171.45	171.44	171.50	
20	171.22	171.25	171.26	171.45	171.77	171.79	171.58	171.47	171.44	171.45	171.44	171.50	
21	171.12	171.26	171.48	171.54	172.06	171.93	171.55	171.46	171.44	171.45	171.45	171.43	
22	171.15	171.21	171.60	171.58	171.79	171.89	171.57	171.30	171.44	171.44	171.48	171.42	
23	171.16	171.22	171.58	171.96	172.00	171.84	171.57	171.34	171.45	171.45	171.44	171.42	
24	171.15	171.15	171.35	171.56	171.85	171.84	171.55	171.47	171.44	171.45	171.45	171.42	
25	171.14	171.16	171.29	171.63	173.76	171.75	171.55	171.46	171.45	171.45	171.44	171.42	
26	171.21	171.16	171.29	171.48	173.15	171.73	171.56	171.46	171.45	171.44	171.43	171.47	
27	171.11	171.14	171.33	171.54	171.88	172.90	171.54	171.45	171.45	171.45	171.44	171.42	
28	171.14	171.20	171.59	171.52	171.88	172.18	171.54	171.46	171.46	171.45	171.44	171.42	
29	171.16	171.13	171.49	171.44	171.76	172.09	171.54	171.46	171.46	171.45		171.49	
30	171.11	171.34	171.30	171.43	171.68	171.87	171.52	171.46	171.45	171.45		171.49	
31		171.72		171.52	172.17		171.54		171.45	171.45		171.49	
MEAN	*******	171.32	171.37	171.57	172.04	171.97	171.64	171.45	171.44	171.45	171.44	171.47	
MAX	171.43	172.11	172.02	171.96	174.03	172.90	172.00	171.52	171.47	171.45	171.48	171.50	174.03
MIN	*******	171.13	171.19	171.35	171.34	171.73	171.50	171.30	171.40	171.43	171.42	171.42	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 175.38 M (MSL), AT 19.00 HOURS, ON AUG 12, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	1.96	13.00	3.80	8.20	36.86	16.60	7.60	6.12	5.68	5.90	5.68	
2	*******	2.32	4.60	4.80	6.56	26.62	21.13	7.00	6.12	5.90	5.68	6.78	
3	*******	1.84	3.00	11.50	13.00	28.78	15.52	6.78	6.12	5.90	5.68	7.00	
4	*******	2.20	2.44	6.12	11.80	24.14	19.47	6.12	6.34	5.90	5.68	6.78	
5	*******	30.98	26.08	17.83	6.56	17.01	25.00	7.30	5.68	5.68	5.68	6.78	
6	0.60	8.80	8.20	8.50	4.20	15.16	15.52	7.60	5.24	5.46	5.46	6.78	
7	0.70	3.60	4.80	10.60	4.60	15.16	13.36	6.78	5.46	5.68	5.68	6.78	
8	0.54	2.80	3.40	7.30	5.24	22.85	13.00	6.34	5.68	5.90	5.68	6.78	
9	0.42	3.40	3.00	18.65	3.60	58.00	11.80	6.34	5.90	5.90	5.68	6.78	
10	0.36	2.56	2.44	9.70	5.02	32.14	12.70	5.02	5.68	5.90	5.24	5.68	
11	0.80	3.20	3.80	9.70	10.00	26.08	12.10	4.80	5.68	5.90	5.46	6.78	
12	0.80	2.20	2.20	6.34	227.50	42.14	11.80	5.46	5.68	5.90	5.46	6.78	
13	0.80	2.20	2.20	5.90	236.50	19.88	11.50	5.90	5.90	5.68	5.46	6.78	
14	1.00	2.32	1.50	19.88	50.80	18.65	11.20	4.80	5.68	5.90	5.46	7.00	
15	0.70	3.40	1.60	12.10	42.80	15.88	7.00	5.46	5.68	5.68	5.68	6.78	
16	0.90	11.50	1.72	7.30	34.46	15.88	8.20	5.46	5.68	5.68	5.68	6.56	
17	1.50	4.40	1.50	10.60	25.00	15.16	8.20	6.12	5.68	5.90	5.90	6.78	
18	5.46	3.00	1.72	7.90	50.00	20.70	8.80	6.12	4.80	5.90	5.90	7.00	
19	4.40	2.68	2.80	7.30	21.13	17.42	9.40	6.34	5.46	5.90	5.68	7.00	
20	1.84	2.20	2.32	5.90	15.52	16.24	9.40	6.34	5.68	5.90	5.68	7.00	
21	0.80	2.32	6.56	8.20	28.24	21.99	8.50	6.12	5.68	5.90	5.90	5.46	
22	1.10	1.72	10.00	9.40	16.24	20.29	9.10	2.80	5.68	5.68	6.56	5.24	
23	1.20	1.84	9.40	23.28	25.00	18.24	9.10	3.60	5.90	5.90	5.68	5.24	
24	1.10	1.10	3.80	8.90	18.65	18.24	8.50	6.34	5.68	5.90	5.90	5.24	
25	1.00	1.20	2.68	10.90	197.80	14.80	8.50	6.12	5.90	5.90	5.68	5.24	
26	1.72	1.20	2.68	6.56	122.70	14.08	8.80	6.12	5.90	5.68	5.46	6.34	
27	0.70	1.00	3.40	8.20	19.88	95.40	8.20	5.90	5.90	5.90	5.68	5.24	
28	1.00	1.60	9.70	7.60	19.88	35.04	8.20	6.12	6.12	5.90	5.68	5.24	
29	1.20	0.90	6.78	5.68	15.16	29.86	8.20	6.12	6.12	5.90		6.78	
30	0.70	3.60	2.80	5.46	12.40	19.47	7.60	6.12	5.90	5.90		6.78	
31		13.72		7.60	34.46		8.20		5.90	5.90		6.78	
TOTAL	*******	127.76	150.12	293.40	1292.90	772.16	354.60	179.04	178.94	180.70	159.26	197.86	******** CMSDAY
MEAN	*******	4.12	5.00	9.46	41.71	25.74	11.44	5.97	5.77	5.83	5.69	6.38	******* CMS
MAX	5.46	30.98	26.08	23.28	236.50	95.40	25.00	7.60	6.34	5.90	6.56	7.00	236.50 CMS
MIN	*******	0.90	1.50	3.80	3.60	14.08	7.00	2.80	4.80	5.46	5.24	5.24	******* CMS
RUNOFF	*******	11.038	12.970	25.350	111.706	66.715	30.637	15.469	15.460	15.612	13.760	17.095	******** MCM

MOMENTARY PEAK 485.00 CMS, AT 175.38 M (MSL), AT 19.00 HOURS, ON AUG 12, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 756.62 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KHONG RIVER BASIN

NAM LOEI 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.S.

LOCATION — UNDER TAMARIND TREE ALONG THE MEASURING LINE.

ELEVATION — +10.689 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.

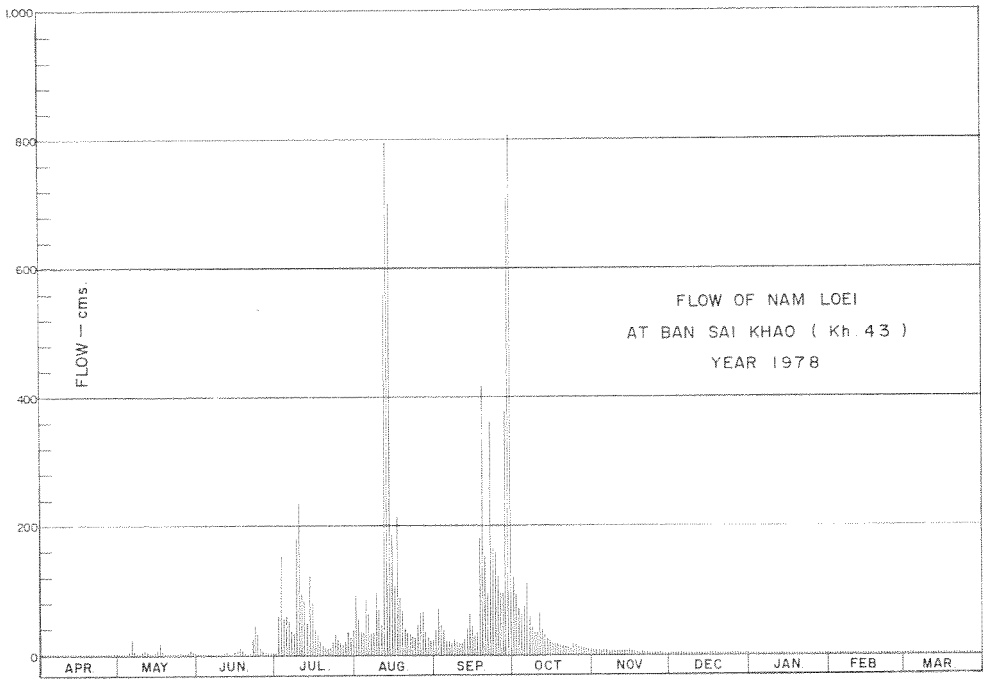
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 1.274 DISCHARGE MEASUREMENTS MADE DURING 1966-1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.51	0.50	0.76	0.91	2.74	1.90	3.10	1.16	0.93	0.80	0.72	0.73	
2	0.50	0.49	0.70	2.27	2.22	2.47	2.76	1.15	0.93	0.80	0.72	0.74	
3	0.49	0.49	0.65	3.49	1.93	2.13	2.49	1.14	0.92	0.79	0.72	0.72	
4	0.49	0.79	0.64	2.22	1.81	1.92	2.34	1.13	0.92	0.79	0.72	0.76	
5	0.48	0.63	0.62	2.27	2.68	1.59	2.52	1.12	0.91	0.78	0.71	0.73	
6	0.48	1.63	0.65	2.14	2.38	1.55	2.96	1.13	0.91	0.78	0.71	0.71	
7	0.47	0.97	0.83	1.85	1.82	1.47	2.27	1.12	0.91	0.78	0.71	0.70	
8	0.47	0.72	0.79	2.17	1.85	1.56	2.02	1.13	0.91	0.78	0.71	0.69	
9	0.46	0.64	0.71	3.81	2.79	1.51	1.84	1.11	0.90	0.77	0.71	0.68	
10	0.46	0.57	0.76	4.41	2.47	1.45	1.83	1.10	0.90	0.77	0.71	0.68	
11	0.46	1.12	0.95	2.87	2.05	1.45	2.36	1.08	0.89	0.77	0.73	0.67	
12	0.46	1.08	0.97	2.67	2.25	1.61	1.96	1.07	0.89	0.77	0.76	0.67	
13	0.46	0.80	0.85	2.12	8.47	1.93	1.76	1.06	0.88	0.76	0.78	0.66	
14	0.49	0.71	0.93	3.11	7.95	2.35	1.63	1.05	0.88	0.76	0.82	0.66	
15	0.47	0.68	0.98	2.63	3.90	2.01	1.56	1.04	0.87	0.76	0.78	0.65	
16	0.49	1.09	1.12	2.09	2.93	1.74	1.50	1.03	0.87	0.76	0.75	0.65	
17	0.53	1.41	1.26	1.76	4.16	1.83	1.45	1.02	0.86	0.75	0.74	0.65	
18	0.58	1.04	1.16	1.50	2.72	3.85	1.41	1.02	0.86	0.75	0.73	0.64	
19	0.53	0.88	1.04	1.35	2.41	6.05	1.38	1.01	0.86	0.75	0.72	0.64	
20	0.56	0.93	0.90	1.26	2.01	3.63	1.35	1.00	0.85	0.75	0.71	0.64	
21	0.61	0.94	0.95	1.25	1.88	2.77	1.32	0.99	0.85	0.74	0.70	0.63	
22	0.58	0.89	1.64	1.29	1.81	5.59	1.30	0.98	0.85	0.74	0.70	0.63	
23	0.59	0.76	2.04	1.55	1.69	3.65	1.28	0.97	0.84	0.74	0.69	0.63	
24	0.54	0.78	1.78	1.82	1.67	3.56	1.44	0.96	0.84	0.74	0.69	0.63	
25	0.56	0.89	1.24	1.61	2.08	3.14	1.42	0.97	0.84	0.74	0.69	0.62	
26	0.53	0.64	1.10	1.48	2.36	2.80	1.35	0.96	0.83	0.73	0.68	0.62	
27	0.52	0.65	1.04	1.40	2.39	2.77	1.28	0.95	0.83	0.73	0.68	0.62	
28	0.51	0.83	0.94	1.54	1.87	5.74	1.25	0.95	0.82	0.73	0.68	0.62	
29	0.50	1.09	0.91	1.89	1.67	8.51	1.22	0.94	0.82	0.73		0.62	
30	0.51	0.96	0.92	1.67	1.57	5.29	1.19	0.94	0.81	0.73		0.61	
31		0.82		1.90	1.59		1.17		0.81	0.72		0.61	
MEAN	0.51	0.85	0.99	2.07	2.65	2.93	1.76	1.04	0.87	0.76	0.72	0.66	
MAX	0.61	1.63	2.04	4.41	8.47	8.51	3.10	1.16	0.93	0.80	0.82	0.76	8.51
MIN	0.46	0.49	0.62	0.91	1.57	1.45	1.17	0.94	0.81	0.72	0.68	0.61	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.85 M (A.D), AT 13.00 HOURS, ON SEP 29, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.00	1.34	3.20	92.50	39.00	121.00	9.00	3.60	1.70	0.98	1.07	
2	0.00	0.00	0.80	60.20	57.20	73.05	94.00	8.75	3.60	1.70	0.98	1.16	
3	0.00	0.00	0.50	152.65	40.50	51.80	74.35	8.50	3.40	1.61	0.98	0.98	
4	0.00	1.61	0.44	57.20	34.50	40.00	64.60	8.25	3.40	1.61	0.98	1.34	
5	0.00	0.38	0.32	60.20	88.00	24.10	76.40	8.00	3.20	1.52	0.89	1.07	
6	0.00	25.85	0.50	52.40	67.20	22.50	109.80	8.25	3.20	1.52	0.89	0.89	
7	0.00	4.40	2.09	36.50	35.00	19.30	60.20	8.00	3.20	1.52	0.89	0.80	
8	0.00	0.98	1.61	54.20	36.50	22.90	45.20	8.25	3.20	1.52	0.89	0.74	
9	0.00	0.44	0.89	181.40	96.25	20.90	36.00	7.75	3.00	1.43	0.89	0.68	
10	0.00	0.14	1.34	236.95	73.05	18.50	35.50	7.50	3.00	1.43	0.89	0.68	
11	0.00	8.00	4.00	102.60	47.00	18.50	65.90	7.00	2.87	1.43	1.07	0.62	
12	0.00	7.00	4.40	87.25	59.00	24.95	42.00	6.75	2.87	1.43	1.34	0.62	
13	0.00	1.70	2.35	51.20	797.00	40.50	32.00	6.50	2.74	1.34	1.52	0.56	
14	0.00	0.89	3.60	121.80	700.00	65.25	25.85	6.25	2.74	1.34	1.96	0.56	
15	0.00	0.68	4.60	84.25	189.50	44.60	22.90	6.00	2.61	1.34	1.52	0.50	
16	0.00	7.25	8.00	49.40	107.40	31.00	20.50	5.75	2.61	1.34	1.25	0.50	
17	0.06	16.90	11.80	32.00	213.20	35.50	18.50	5.50	2.48	1.25	1.16	0.50	
18	0.16	6.00	9.00	20.50	91.00	185.00	16.90	5.50	2.48	1.25	1.07	0.44	
19	0.06	2.74	6.00	14.75	69.15	415.50	15.80	5.25	2.48	1.25	0.98	0.44	
20	0.12	3.60	3.00	11.80	44.60	165.20	14.75	5.00	2.35	1.25	0.89	0.44	
21	0.26	3.80	4.00	11.50	38.00	94.75	13.70	4.80	2.35	1.16	0.80	0.38	
22	0.16	2.87	26.30	12.70	34.50	361.35	13.00	4.60	2.35	1.16	0.80	0.38	
23	0.18	1.34	46.40	22.50	28.55	167.00	12.40	4.40	2.22	1.16	0.74	0.38	
24	0.08	1.52	33.00	35.00	27.65	158.90	18.10	4.20	2.22	1.16	0.74	0.38	
25	0.12	2.87	11.20	24.95	48.80	124.20	17.30	4.40	2.22	1.16	0.74	0.32	
26	0.06	0.44	7.50	19.70	65.90	97.00	14.75	4.20	2.09	1.07	0.68	0.32	
27	0.04	0.50	6.00	16.50	67.85	94.75	12.40	4.00	2.09	1.07	0.68	0.32	
28	0.02	2.09	3.80	22.10	37.50	378.60	11.50	4.00	1.96	1.07	0.68	0.32	
29	0.00	7.25	3.20	38.50	27.65	805.00	10.60	3.80	1.96	1.07		0.32	
30	0.02	4.20	3.40	27.65	23.30	326.90	9.75	3.80	1.83	1.07		0.26	
31		1.96		39.00	24.10		9.25		1.83	0.98		0.26	
TOTAL	1.36	117.40	211.38	1740.55	3362.35	3966.50	1134.90	183.95	82.15	40.91	27.88	18.23	10887.55 CMSDAY
MEAN	0.05	3.79	7.05	56.15	108.46	132.22	36.61	6.13	2.65	1.32	1.00	0.59	29.83 CMS
MAX	0.26	25.85	46.40	236.95	797.00	805.00	121.00	9.00	3.60	1.70	1.96	1.34	805.00 CMS
MIN	0.00	0.00	0.32	3.20	23.30	18.50	9.25	3.80	1.83	0.98	0.68	0.26	0.00 CMS
RUNOFF	0.118	10.143	18.263	150.383	290.507	342.705	98.055	15.893	7.098	3.535	2.409	1.575	940.684 MCM

MOMENTARY PEAK 875.50 CMS, AT 8.85 M (A.D), AT 13.00 HOURS, ON SEP 29, 1978
RUNOFF YIELD 30.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 883.45 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KHONG RIVER BASIN

NAM LOEI 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.S.

LOCATION — ON LEFT BANK UNDER TAMARIND TREE ALONG THE MEASURING LINE.

ELEVATION — +8.516 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 — 1968 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968 - 1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968 - 1973

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 1.006 DISCHARGE MEASUREMENTS MADE DURING 1968-1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

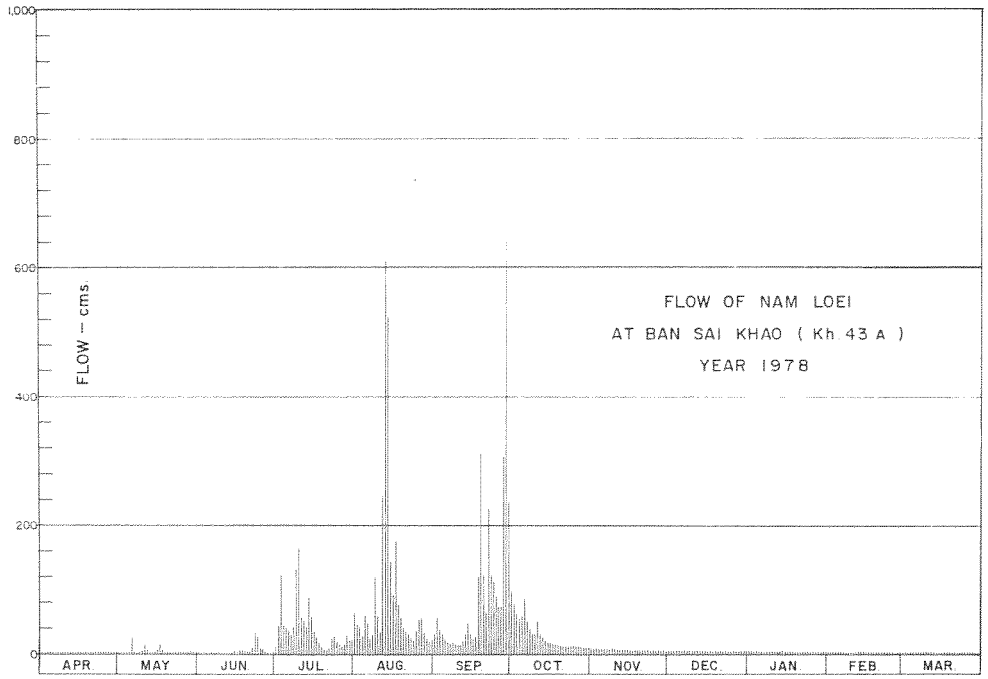
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.39	0.61	0.77	2.42	1.80	3.03	1.15	0.98	0.93	0.86	0.85	
2	0.39	0.38	0.56	2.07	2.11	2.33	2.72	1.14	0.98	0.92	0.85	0.85	
3	0.38	0.40	0.53	3.32	2.04	1.96	2.48	1.13	0.98	0.92	0.85	0.85	
4	0.37	0.69	0.50	2.07	1.70	1.80	2.31	1.12	0.97	0.92	0.85	0.86	
5	0.36	0.51	0.49	2.01	2.38	1.57	2.41	1.11	0.97	0.92	0.85	0.85	
6	0.35	0.63	0.51	1.97	2.18	1.46	2.80	1.12	0.97	0.92	0.85	0.84	
7	0.35	0.87	0.67	1.76	1.61	1.39	2.23	1.11	0.98	0.91	0.85	0.84	
8	0.34	0.61	0.64	2.03	1.75	1.46	1.98	1.12	0.98	0.91	0.84	0.83	
9	0.34	0.52	0.57	3.48	3.31	1.40	1.80	1.10	0.98	0.91	0.84	0.83	
10	0.34	0.44	0.60	3.92	2.38	1.34	1.82	1.09	0.98	0.91	0.84	0.82	
11	0.33	1.29	0.77	2.36	1.90	1.35	2.22	1.08	0.97	0.91	0.84	0.82	
12	0.34	1.00	0.83	2.27	2.33	1.50	1.84	1.07	0.97	0.90	0.86	0.82	
13	0.33	0.71	0.69	1.99	7.92	1.78	1.66	1.06	0.97	0.90	0.90	0.81	
14	0.37	0.58	0.69	2.81	7.37	2.16	1.55	1.05	0.96	0.90	0.92	0.81	
15	0.36	0.57	0.93	2.32	3.58	1.87	1.41	1.04	0.96	0.90	0.88	0.81	
16	0.38	1.02	0.90	1.86	2.90	1.62	1.43	1.03	0.96	0.89	0.87	0.80	
17	0.41	1.34	1.01	1.59	4.02	1.69	1.38	1.03	0.96	0.89	0.86	0.80	
18	0.48	1.01	0.98	1.34	2.69	3.28	1.35	1.03	0.95	0.89	0.86	0.80	
19	0.43	0.77	0.84	1.17	2.35	5.52	1.32	1.02	0.95	0.89	0.85	0.80	
20	0.47	0.83	0.72	1.07	1.98	3.37	1.30	1.02	0.95	0.88	0.85	0.79	
21	0.51	0.81	0.81	1.04	1.85	2.47	1.27	1.01	0.95	0.88	0.85	0.79	
22	0.48	0.78	1.28	1.14	1.76	4.65	1.25	1.01	0.95	0.88	0.84	0.79	
23	0.51	0.64	1.87	1.64	1.62	3.32	1.24	1.00	0.94	0.88	0.84	0.79	
24	0.44	0.67	1.64	1.73	1.57	3.21	1.33	1.00	0.94	0.87	0.84	0.79	
25	0.47	0.78	1.11	1.52	1.93	2.88	1.32	1.01	0.94	0.87	0.84	0.78	
26	0.43	0.63	0.95	1.39	2.28	2.63	1.28	1.00	0.94	0.87	0.83	0.78	
27	0.42	0.63	0.87	1.29	2.30	2.64	1.23	0.99	0.94	0.87	0.83	0.78	
28	0.41	0.72	0.77	1.39	1.83	5.42	1.21	0.99	0.93	0.86	0.83	0.78	
29	0.40	0.97	0.74	1.73	1.61	8.12	1.19	0.99	0.93	0.86		0.78	
30	0.41	0.83	0.77	1.57	1.51	4.78	1.18	0.98	0.93	0.86		0.77	
31		0.68		1.58	1.54		1.16		0.93	0.86		0.77	
MEAN	0.40	0.73	0.83	1.88	2.54	2.69	1.70	1.05	0.96	0.89	0.85	0.81	
MAX	0.51	1.34	1.87	3.92	7.92	8.12	3.03	1.15	0.98	0.93	0.92	0.86	8.12
MIN	0.33	0.38	0.49	0.77	1.51	1.34	1.16	0.98	0.93	0.86	0.83	0.77	0.33

ANNUAL MAX MOMENTARY GAGE HEIGHT — 9.87 M (A.D), AT 19.00 HOURS, ON AUG 13, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.46	1.70	62.20	32.00	101.10	9.50	5.60	4.60	3.20	3.00	
2	0.00	0.00	0.32	44.50	46.50	57.50	80.80	9.20	5.60	4.40	3.00	3.00	
3	0.00	0.00	0.26	121.40	43.00	39.00	65.80	8.90	5.60	4.40	3.00	3.00	
4	0.00	0.94	0.20	44.50	28.00	32.00	56.50	8.60	5.40	4.40	3.00	3.20	
5	0.00	0.22	0.18	41.50	60.00	22.80	61.60	8.30	5.40	4.40	3.00	3.00	
6	0.00	0.58	0.22	39.50	50.00	18.80	86.00	8.60	5.40	4.40	3.00	2.80	
7	0.00	3.40	0.82	30.40	24.40	16.70	52.50	8.30	5.60	4.20	3.00	2.80	
8	0.00	0.46	0.64	42.50	30.00	18.80	40.00	8.60	5.60	4.20	2.80	2.60	
9	0.00	0.24	0.34	132.60	120.70	17.00	32.00	8.00	5.60	4.20	2.80	2.60	
10	0.00	0.08	0.40	164.60	60.00	15.20	32.80	7.80	5.60	4.20	2.80	2.40	
11	0.00	13.70	1.70	59.00	36.00	15.50	52.00	7.60	5.40	4.20	2.80	2.40	
12	0.00	6.00	2.60	54.50	57.50	20.00	33.60	7.40	5.40	4.00	3.20	2.40	
13	0.00	1.10	0.94	40.50	609.20	31.20	26.40	7.20	5.40	4.00	4.00	2.20	
14	0.00	0.36	0.94	86.65	526.10	49.00	22.00	7.00	5.20	4.00	4.40	2.20	
15	0.00	0.34	4.60	57.00	139.60	34.80	17.30	6.80	5.20	4.00	3.60	2.20	
16	0.00	6.40	4.00	34.40	92.50	24.80	17.90	6.60	5.20	3.80	3.40	2.00	
17	0.02	15.20	6.20	23.60	172.60	27.60	16.40	6.60	5.20	3.80	3.20	2.00	
18	0.16	6.20	5.60	15.20	78.85	118.60	15.50	6.60	5.00	3.80	3.20	2.00	
19	0.06	1.70	2.80	10.10	58.50	312.60	14.60	6.40	5.00	3.80	3.00	2.00	
20	0.14	2.60	1.20	7.40	40.00	124.90	14.00	6.40	5.00	3.60	3.00	1.90	
21	0.22	2.20	2.20	6.80	34.00	65.20	13.10	6.20	5.00	3.60	3.00	1.90	
22	0.16	1.80	13.40	9.20	30.40	225.50	12.50	6.20	5.00	3.60	2.80	1.90	
23	0.22	0.64	34.80	25.60	24.80	121.40	12.20	6.00	4.80	3.60	2.80	1.90	
24	0.08	0.82	25.60	29.20	22.80	113.70	14.90	6.00	4.80	3.40	2.80	1.90	
25	0.14	1.80	8.30	20.80	37.50	91.20	14.60	6.20	4.80	3.40	2.80	1.80	
26	0.06	0.58	5.00	16.70	55.00	74.95	13.40	6.00	4.80	3.40	2.60	1.80	
27	0.04	0.58	3.40	13.70	56.00	75.60	11.90	5.80	4.80	3.40	2.60	1.80	
28	0.02	1.20	1.70	16.70	33.20	302.10	11.30	5.80	4.60	3.20	2.60	1.80	
29	0.00	5.40	1.40	29.20	24.40	643.60	10.70	5.80	4.60	3.20		1.80	
30	0.02	2.60	1.70	22.80	20.40	237.60	10.40	5.60	4.60	3.20		1.70	
31		0.88		23.20	21.60		9.80		4.60	3.20		1.70	
TOTAL	1.34	78.02	131.92	1265.45	2695.75	2979.65	973.60	214.00	159.80	119.60	85.40	69.70	8774.22 CMSDAY
MEAN	0.04	2.52	4.40	40.82	86.96	99.32	31.41	7.13	5.15	3.86	3.05	2.25	24.04 CMS
MAX	0.22	15.20	34.80	164.60	609.20	643.60	101.10	9.50	5.60	4.60	4.40	3.20	643.60 CMS
MIN	0.00	0.00	0.18	1.70	20.40	15.20	9.80	5.60	4.60	3.20	2.60	1.70	0.00 CMS
RUNOFF	0.116	6.741	11.398	109.335	232.913	257.442	84.119	18.490	13.807	10.333	7.379	6.022	758.092 MCM

MOMENTARY PEAK 1018.20 CMS, AT 9.87 M (A.D), AT 19.00 HOURS, ON AUG 13, 1978
RUNOFF YIELD 30.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1288.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT BUT PERIODIC CURVES ARE USED FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 83 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

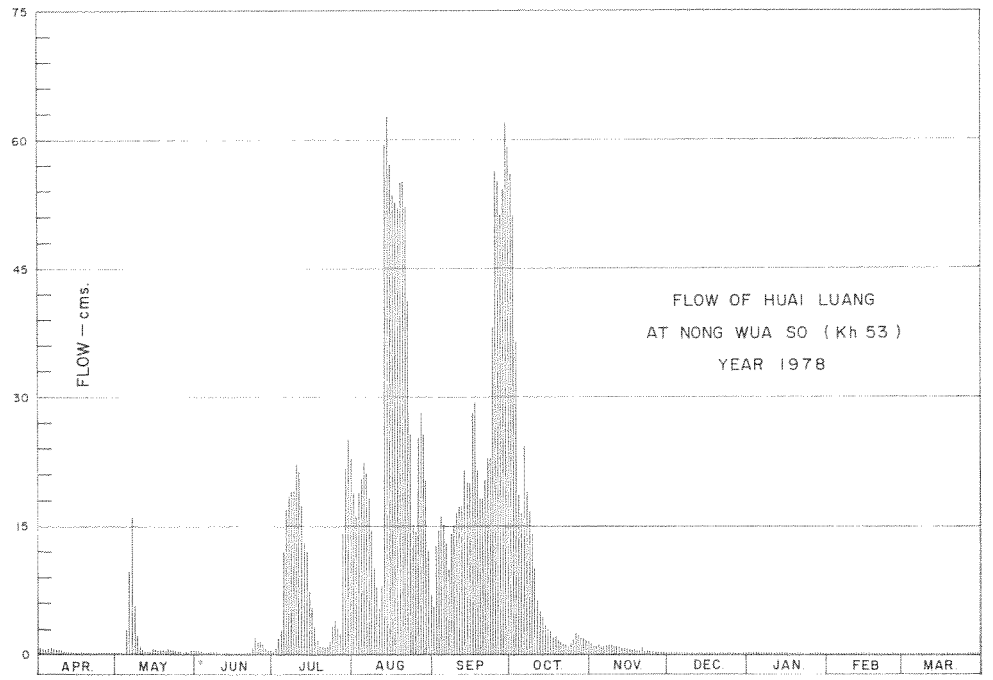
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.11	0.24	0.22	1.86	0.91	3.78	0.41	0.19	0.09	0.07	0.06	
2	0.27	0.11	0.23	0.30	1.70	1.45	3.53	0.37	0.18	0.09	0.07	0.06	
3	0.27	0.11	0.22	0.49	1.89	1.59	2.86	0.37	0.18	0.09	0.07	0.07	
4	0.25	0.14	0.18	0.93	1.98	1.69	1.96	0.38	0.18	0.09	0.07	0.07	
5	0.29	0.10	0.18	1.41	2.10	1.63	1.72	0.36	0.18	0.10	0.07	0.07	
6	0.28	1.26	0.18	1.74	2.02	1.48	2.19	0.37	0.17	0.10	0.07	0.06	
7	0.27	1.68	0.18	1.85	1.84	1.27	1.88	0.37	0.16	0.10	0.07	0.06	
8	0.25	1.03	0.18	1.90	1.59	1.58	1.73	0.39	0.16	0.10	0.07	0.06	
9	0.24	0.54	0.16	1.90	1.27	1.63	1.56	0.38	0.16	0.10	0.07	0.06	
10	0.23	0.35	0.12	2.10	1.12	1.72	1.27	0.37	0.16	0.08	0.07	0.06	
11	0.20	0.27	0.11	2.04	0.89	1.78	0.98	0.36	0.16	0.07	0.07	0.06	
12	0.19	0.21	0.10	1.78	1.11	1.77	0.88	0.34	0.16	0.07	0.07	0.06	
13	0.18	0.19	0.09	1.47	3.92	2.05	0.78	0.32	0.16	0.07	0.08	0.06	
14	0.15	0.20	0.09	1.29	4.06	1.97	0.70	0.30	0.16	0.07	0.08	0.06	
15	0.15	0.29	0.07	1.06	3.82	1.96	0.63	0.30	0.15	0.07	0.08	0.06	
16	0.16	0.28	0.10	0.89	3.66	2.44	0.60	0.28	0.13	0.08	0.08	0.06	
17	0.16	0.25	0.13	0.67	3.62	2.49	0.52	0.27	0.13	0.07	0.08	0.06	
18	0.17	0.25	0.12	0.47	3.59	2.05	0.50	0.26	0.13	0.07	0.08	0.06	
19	0.17	0.25	0.11	0.36	3.72	1.83	0.45	0.24	0.12	0.07	0.08	0.06	
20	0.17	0.23	0.13	0.35	3.73	1.84	0.43	0.22	0.12	0.07	0.08	0.06	
21	0.16	0.28	0.12	0.32	3.59	1.98	0.40	0.30	0.11	0.07	0.07	0.06	
22	0.15	0.25	0.13	0.33	3.09	2.12	0.37	0.25	0.11	0.07	0.07	0.06	
23	0.14	0.22	0.26	0.43	2.29	2.13	0.35	0.23	0.11	0.07	0.07	0.06	
24	0.14	0.23	0.50	0.68	1.64	2.93	0.38	0.23	0.11	0.07	0.06	0.07	
25	0.12	0.22	0.44	0.75	1.58	3.79	0.46	0.22	0.10	0.07	0.06	0.07	
26	0.12	0.19	0.46	0.65	2.24	3.72	0.56	0.21	0.09	0.07	0.06	0.07	
27	0.15	0.10	0.30	0.55	2.44	3.55	0.53	0.20	0.11	0.07	0.06	0.07	
28	0.14	0.17	0.27	1.55	2.29	3.69	0.48	0.20	0.09	0.07	0.06	0.07	
29	0.14	0.16	0.23	2.05	1.97	4.04	0.48	0.20	0.10	0.07		0.07	
30	0.13	0.16	0.24	2.26	1.43	3.91	0.46	0.19	0.10	0.07		0.07	
31		0.23		2.12	1.02		0.45		0.09	0.07		0.07	
MEAN	0.19	0.32	0.20	1.13	2.36	2.23	1.09	0.30	0.14	0.08	0.07	0.06	
MAX	0.30	1.68	0.50	2.26	4.06	4.04	3.78	0.41	0.19	0.10	0.08	0.07	4.06
MIN	0.12	0.10	0.07	0.22	0.89	0.91	0.35	0.19	0.09	0.07	0.06	0.06	0.06

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.48 M (A.D), AT 17.30 HOURS, ON AUG 13, 1978

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

LEFT BANK ELEVATION — 5.69 M (A.D)

RIGHT BANK ELEVATION — 5.34 M (A.D); DRAINAGE AREA — 436 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.13	0.56	0.48	18.60	5.70	56.06	1.37	0.37	0.09	0.07	0.06	
2	0.68	0.13	0.52	0.80	16.20	12.50	50.63	1.15	0.34	0.09	0.07	0.06	
3	0.68	0.13	0.48	1.93	19.05	14.55	36.56	1.15	0.34	0.09	0.07	0.07	
4	0.60	0.22	0.34	5.90	20.40	16.05	20.10	1.20	0.34	0.09	0.07	0.07	
5	0.76	0.10	0.34	11.94	22.30	15.15	16.50	1.10	0.34	0.10	0.07	0.07	
6	0.72	9.84	0.34	16.80	21.02	12.92	23.83	1.15	0.31	0.10	0.07	0.06	
7	0.68	15.90	0.34	18.45	18.30	9.98	18.90	1.15	0.28	0.10	0.07	0.06	
8	0.60	6.96	0.34	19.20	14.55	14.40	16.65	1.25	0.28	0.10	0.07	0.06	
9	0.56	2.32	0.28	19.20	9.98	15.15	14.10	1.20	0.28	0.10	0.07	0.06	
10	0.52	1.05	0.16	22.30	8.04	16.50	9.98	1.15	0.28	0.08	0.07	0.06	
11	0.40	0.68	0.13	21.34	5.50	17.40	6.40	1.10	0.28	0.07	0.07	0.06	
12	0.37	0.44	0.10	17.40	7.92	17.25	5.40	1.00	0.28	0.07	0.07	0.06	
13	0.34	0.37	0.09	12.78	59.26	21.50	4.40	0.90	0.28	0.07	0.08	0.06	
14	0.25	0.40	0.09	10.26	62.48	20.25	3.60	0.80	0.28	0.07	0.08	0.06	
15	0.25	0.76	0.07	7.32	56.96	20.10	3.04	0.80	0.25	0.07	0.08	0.06	
16	0.28	0.72	0.10	5.50	53.42	28.16	2.80	0.72	0.19	0.08	0.08	0.06	
17	0.28	0.60	0.19	3.36	52.54	29.11	2.16	0.68	0.19	0.07	0.08	0.06	
18	0.31	0.60	0.16	1.79	51.89	21.50	2.00	0.64	0.19	0.07	0.08	0.06	
19	0.31	0.60	0.13	1.10	54.74	18.15	1.65	0.56	0.16	0.07	0.08	0.06	
20	0.31	0.52	0.19	1.05	54.98	18.30	1.51	0.48	0.16	0.07	0.08	0.06	
21	0.28	0.72	0.16	0.90	51.89	20.40	1.30	0.80	0.13	0.07	0.07	0.06	
22	0.25	0.60	0.19	0.95	41.39	22.64	1.15	0.60	0.13	0.07	0.07	0.06	
23	0.22	0.48	0.64	1.51	25.53	22.81	1.05	0.52	0.13	0.07	0.07	0.06	
24	0.22	0.52	2.00	3.44	15.30	38.03	1.20	0.52	0.13	0.07	0.06	0.07	
25	0.16	0.48	1.58	4.10	14.40	56.28	1.72	0.48	0.10	0.07	0.06	0.07	
26	0.16	0.37	1.72	3.20	24.68	54.74	2.48	0.44	0.09	0.07	0.06	0.07	
27	0.25	0.10	0.80	2.40	28.16	51.05	2.24	0.40	0.13	0.07	0.06	0.07	
28	0.22	0.31	0.68	13.95	25.53	54.08	1.86	0.40	0.09	0.07	0.06	0.07	
29	0.22	0.28	0.52	21.50	20.25	62.02	1.86	0.40	0.10	0.07		0.07	
30	0.19	0.28	0.56	25.02	12.22	59.03	1.72	0.37	0.10	0.07		0.07	
31		0.52		22.64	6.84		1.65		0.09	0.07		0.07	
TOTAL	11.87	47.13	13.80	298.51	894.30	785.70	314.50	24.48	6.64	2.42	1.99	1.97	2403.31 CMSDAY
MEAN	0.40	1.52	0.46	9.63	28.85	26.19	10.15	0.82	0.21	0.08	0.07	0.06	6.58 CMS
MAX	0.80	15.90	2.00	25.02	62.48	62.02	56.06	1.37	0.37	0.10	0.08	0.07	62.48 CMS
MIN	0.16	0.10	0.07	0.48	5.50	5.70	1.05	0.37	0.09	0.07	0.06	0.06	0.06 CMS
RUNOFF	1.026	4.072	1.192	25.791	77.267	67.884	27.173	2.115	0.574	0.209	0.172	0.170	207.645 MCM

MOMENTARY PEAK 72.14 CMS, AT 4.48 M (A.D), AT 17.30 HOURS, ON AUG 13, 1978
RUNOFF YIELD 15.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 165.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KHONG RIVER BASIN

HUAI NAM MAN AT BAN PONG BIA, LOEI (KH.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.S.

LOCATION — NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +12.895 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 — 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 BUT PERIODIC CURVES ARE USED FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 164 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

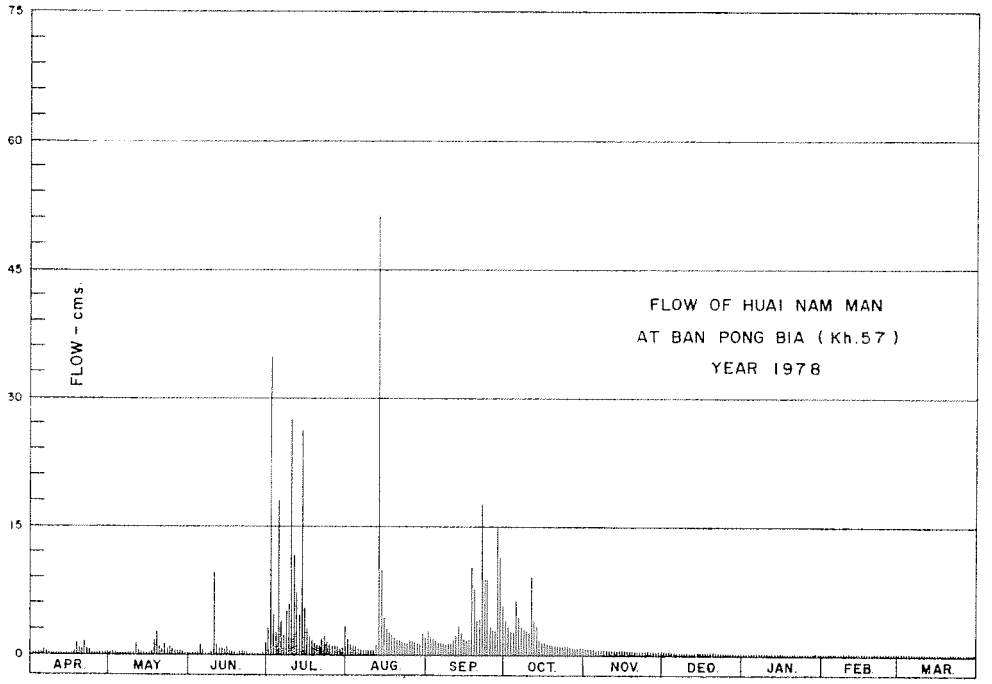
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.27	0.21	0.79	0.62	0.77	0.90	0.66	0.61	0.55	0.53	0.50	
2	0.15	0.25	0.26	2.72	0.54	0.68	0.83	0.66	0.61	0.55	0.53	0.50	
3	0.15	0.25	0.23	0.97	0.48	0.65	0.77	0.65	0.61	0.55	0.53	0.50	
4	0.18	0.22	0.22	0.72	0.45	0.60	0.74	0.65	0.61	0.55	0.52	0.51	
5	0.35	0.21	0.47	1.89	0.41	0.56	1.11	0.64	0.60	0.55	0.52	0.51	
6	0.27	0.25	0.35	0.91	0.38	0.54	0.97	0.65	0.60	0.55	0.52	0.51	
7	0.21	0.25	0.26	0.70	0.37	0.53	0.85	0.65	0.60	0.55	0.52	0.50	
8	0.19	0.21	0.24	1.02	0.35	0.53	0.80	0.65	0.60	0.55	0.51	0.50	
9	0.19	0.20	0.23	1.09	0.37	0.53	0.78	0.64	0.60	0.55	0.51	0.50	
10	0.18	0.20	1.36	2.38	0.36	0.54	0.76	0.64	0.60	0.55	0.56	0.50	
11	0.17	0.52	0.50	1.46	0.37	0.67	1.34	0.63	0.60	0.55	0.57	0.49	
12	0.17	0.29	0.39	1.20	0.48	0.73	0.90	0.63	0.60	0.55	0.56	0.49	
13	0.15	0.25	0.41	0.98	2.33	0.85	0.83	0.63	0.60	0.55	0.55	0.48	
14	0.13	0.22	0.35	2.32	1.40	0.75	0.79	0.63	0.60	0.55	0.55	0.48	
15	0.12	0.21	0.44	1.05	0.97	0.65	0.77	0.63	0.60	0.55	0.55	0.48	
16	0.12	0.26	0.33	0.81	0.81	0.60	0.75	0.63	0.59	0.55	0.54	0.48	
17	0.19	0.28	0.31	0.69	0.75	0.62	0.73	0.63	0.59	0.55	0.53	0.48	
18	0.55	0.60	0.25	0.62	0.69	1.42	0.72	0.62	0.59	0.54	0.53	0.48	
19	0.41	0.76	0.25	0.56	0.64	1.23	0.72	0.63	0.59	0.54	0.53	0.48	
20	0.35	0.45	0.33	0.52	0.60	0.91	0.71	0.62	0.58	0.54	0.52	0.48	
21	0.56	0.35	0.31	0.48	0.59	0.93	0.70	0.62	0.58	0.54	0.51	0.47	
22	0.37	0.56	0.27	0.65	0.58	1.82	0.70	0.62	0.57	0.54	0.51	0.47	
23	0.32	0.39	0.23	0.69	0.56	1.32	0.69	0.62	0.57	0.54	0.50	0.47	
24	0.26	0.45	0.21	0.57	0.56	1.32	0.69	0.62	0.57	0.54	0.50	0.47	
25	0.24	0.40	0.21	0.53	0.59	0.92	0.69	0.62	0.57	0.54	0.49	0.47	
26	0.23	0.34	0.21	0.48	0.56	0.79	0.68	0.61	0.57	0.54	0.49	0.47	
27	0.21	0.31	0.19	0.48	0.55	0.77	0.68	0.61	0.57	0.54	0.49	0.47	
28	0.20	0.31	0.19	0.46	0.54	1.72	0.67	0.61	0.57	0.54	0.49	0.47	
29	0.23	0.28	0.20	0.42	0.69	1.50	0.68	0.61	0.56	0.53		0.47	
30	0.26	0.25	0.54	0.44	0.74	1.08	0.67	0.61	0.56	0.53		0.47	
31		0.23		0.85	0.67		0.67		0.56	0.53		0.47	
MEAN	0.24	0.32	0.33	0.95	0.68	0.88	0.78	0.63	0.59	0.54	0.52	0.48	
MAX	0.56	0.76	1.36	2.72	3.33	1.82	1.34	0.66	0.61	0.55	0.57	0.51	3.33
MIN	0.12	0.20	0.19	0.42	0.35	0.53	0.67	0.61	0.56	0.53	0.49	0.47	0.12

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.18 M (A.D), AT 6.00 HOURS, ON AUG 13, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.02 M (A.D)

LEFT BANK ELEVATION — 6.33 M (A.D)

RIGHT BANK ELEVATION — 8.04 M (A.D), DRAINAGE AREA 9 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.31	0.13	3.02	1.82	2.86	4.00	0.82	0.47	0.25	0.19	0.10	
2	0.05	0.25	0.28	35.08	1.40	2.18	3.37	0.82	0.47	0.25	0.19	0.10	
3	0.05	0.25	0.19	4.70	1.12	2.00	2.86	0.75	0.47	0.25	0.19	0.10	
4	0.08	0.16	0.16	2.46	1.00	1.70	2.62	0.75	0.47	0.25	0.16	0.13	
5	0.60	0.13	1.08	18.02	0.84	1.50	6.32	0.68	0.40	0.25	0.16	0.13	
6	0.31	0.25	0.60	4.10	0.72	1.40	4.70	0.75	0.40	0.25	0.16	0.13	
7	0.13	0.25	0.28	2.30	0.68	1.35	3.55	0.75	0.40	0.25	0.16	0.10	
8	0.09	0.13	0.22	5.24	0.60	1.35	3.10	0.75	0.40	0.25	0.13	0.10	
9	0.09	0.10	0.19	6.08	0.68	1.35	2.94	0.68	0.40	0.25	0.13	0.10	
10	0.08	0.10	9.44	27.48	0.64	1.40	2.78	0.68	0.40	0.25	0.28	0.10	
11	0.07	1.30	1.20	10.84	0.68	2.12	9.16	0.61	0.40	0.25	0.31	0.08	
12	0.07	0.37	0.76	7.40	1.12	2.54	4.00	0.61	0.40	0.25	0.28	0.08	
13	0.05	0.25	0.84	4.80	51.17	3.55	3.37	0.61	0.40	0.25	0.25	0.06	
14	0.03	0.16	0.60	26.22	10.00	2.70	1.91	0.61	0.40	0.25	0.25	0.06	
15	0.02	0.13	0.96	5.60	4.70	2.00	1.73	0.61	0.40	0.25	0.25	0.06	
16	0.02	0.28	0.52	3.19	3.19	1.70	1.55	0.61	0.37	0.25	0.22	0.06	
17	0.09	0.34	0.44	2.24	2.70	1.82	1.37	0.61	0.37	0.25	0.19	0.06	
18	1.45	1.70	0.25	1.82	2.24	10.28	1.28	0.54	0.37	0.22	0.19	0.06	
19	0.84	2.78	0.25	1.50	1.94	7.76	1.28	0.61	0.37	0.22	0.19	0.06	
20	0.60	1.00	0.52	1.30	1.70	4.10	1.19	0.54	0.34	0.22	0.16	0.06	
21	1.50	0.60	0.44	1.12	1.65	4.30	1.10	0.54	0.34	0.22	0.13	0.04	
22	0.68	1.50	0.31	2.00	1.60	16.76	1.10	0.54	0.31	0.22	0.13	0.04	
23	0.48	0.76	0.19	2.24	1.50	8.88	1.03	0.54	0.31	0.22	0.10	0.04	
24	0.28	1.00	0.13	1.55	1.50	8.88	1.03	0.54	0.31	0.22	0.10	0.04	
25	0.22	0.80	0.13	1.35	1.65	4.20	1.03	0.54	0.31	0.22	0.08	0.04	
26	0.19	0.56	0.13	1.12	1.50	3.02	0.96	0.47	0.31	0.22	0.08	0.04	
27	0.13	0.44	0.09	1.12	1.45	2.86	0.96	0.47	0.31	0.22	0.08	0.04	
28	0.10	0.44	0.09	1.04	1.40	15.04	0.89	0.47	0.31	0.22	0.08	0.04	
29	0.19	0.34	0.10	0.88	2.24	11.40	0.96	0.47	0.28	0.19		0.04	
30	0.28	0.25	1.40	0.96	2.62	5.96	0.89	0.47	0.28	0.19		0.04	
31		0.19		3.55	2.12		0.89		0.28	0.19		0.04	
TOTAL	8.82	17.12	21.92	190.32	108.17	136.96	73.92	18.44	11.45	7.24	4.82	2.17	601.35 CMSDAY
MEAN	0.29	0.55	0.73	6.14	3.49	4.57	2.38	0.61	0.37	0.23	0.17	0.07	1.65 CMS
MAX	1.50	2.78	9.44	35.08	51.17	16.76	9.16	0.82	0.47	0.25	0.31	0.13	51.17 CMS
MIN	0.02	0.10	0.09	0.88	0.60	1.35	0.89	0.47	0.28	0.19	0.08	0.04	0.02 CMS
RUNOFF	0.762	1.479	1.894	16.444	9.346	11.833	6.387	1.593	0.989	0.626	0.416	0.187	51.957 MCM

MOMENTARY PEAK 117.76 CMS, AT 5.18 M (A.D), AT 6.00 HOURS, ON AUG 13, 1978
RUNOFF YIELD 183.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13084.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 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.S.

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.

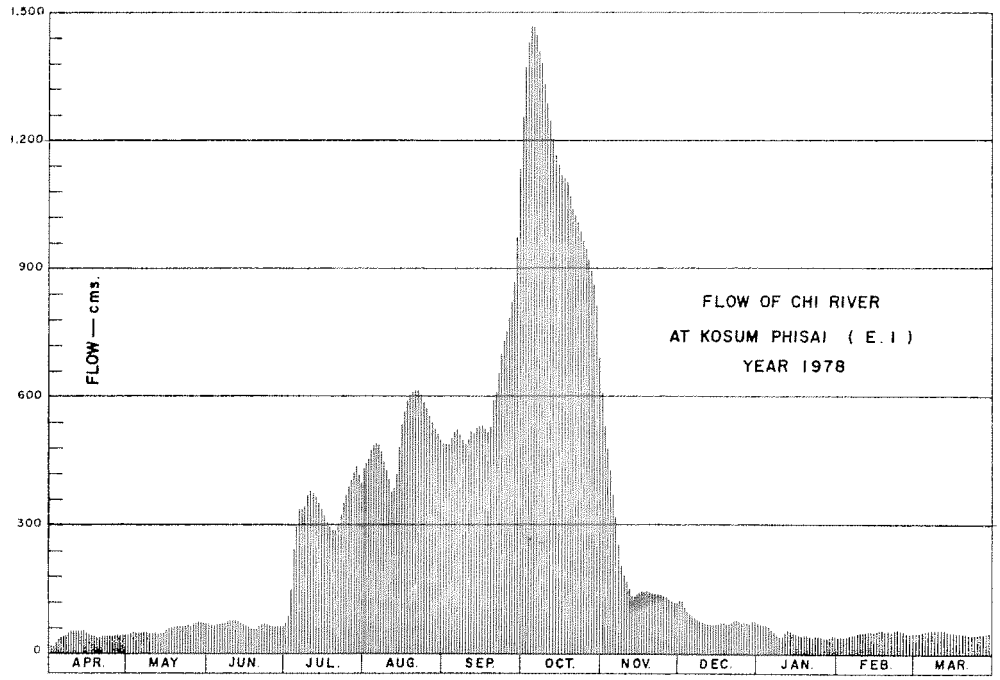
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	137.22	137.91	138.42	138.39	143.30	143.89	147.20	145.00	139.37	138.46	137.84	138.00	
2	137.26	137.94	138.39	138.64	143.42	143.88	147.65	144.50	139.42	138.41	137.82	138.04	
3	137.51	138.02	138.35	139.11	143.59	143.93	147.79	143.95	139.30	138.41	137.82	138.06	
4	137.66	137.99	138.36	140.10	143.79	144.03	147.92	143.50	139.12	138.43	137.83	138.09	
5	137.82	137.98	138.42	141.33	143.88	144.11	148.00	142.95	138.91	138.29	137.91	138.11	
6	137.85	137.99	138.46	141.96	143.91	144.14	147.98	142.35	138.79	138.10	137.93	138.13	
7	137.88	138.02	138.46	142.23	143.86	144.08	147.90	141.75	138.73	138.00	137.94	138.12	
8	137.97	138.04	138.46	142.22	143.72	143.93	147.80	141.10	138.65	137.94	137.98	138.16	
9	138.03	138.01	138.54	142.30	143.49	143.85	147.73	140.39	138.58	137.87	137.99	138.15	
10	138.06	137.99	138.66	142.54	143.19	143.94	147.54	140.20	138.54	138.01	138.00	138.14	
11	138.07	137.97	138.65	142.69	142.87	144.07	147.41	140.01	138.53	138.10	138.00	138.14	
12	138.09	137.97	138.59	142.69	142.68	144.17	147.29	139.74	138.45	138.11	138.00	138.13	
13	138.09	137.95	138.52	142.62	142.79	144.22	147.19	139.51	138.43	138.12	138.00	138.12	
14	138.09	137.95	138.40	142.51	143.44	144.30	147.09	139.53	138.42	138.06	138.04	138.10	
15	138.00	137.99	138.32	142.36	144.16	144.37	147.00	139.65	138.41	137.97	138.05	138.07	
16	137.94	138.14	138.38	142.21	144.44	144.28	146.95	139.70	138.41	137.91	138.05	137.99	
17	137.87	138.24	138.28	142.00	144.70	144.19	146.92	139.68	138.43	137.87	138.10	137.99	
18	137.82	138.22	138.22	141.78	144.80	144.17	146.90	139.68	138.44	137.85	138.11	138.00	
19	137.80	138.33	138.18	141.62	144.86	144.35	146.85	139.68	138.43	137.86	138.11	137.98	
20	137.82	138.31	138.16	141.55	144.91	144.63	146.76	139.65	138.43	137.86	138.09	137.96	
21	137.83	138.32	138.22	141.61	144.94	144.91	146.66	139.63	138.47	137.83	138.09	137.95	
22	137.88	138.33	138.38	141.74	144.93	145.22	146.61	139.63	138.54	137.83	138.07	137.95	
23	137.88	138.31	138.43	142.00	144.88	145.42	146.57	139.61	138.63	137.84	138.15	137.93	
24	137.86	138.37	138.42	142.36	144.80	145.52	146.50	139.58	138.64	137.84	138.18	137.93	
25	137.86	138.37	138.35	142.60	144.70	145.62	146.44	139.55	138.54	137.81	138.17	137.94	
26	137.87	138.48	138.33	142.72	144.56	145.71	146.37	139.51	138.46	137.78	138.11	137.94	
27	137.90	138.51	138.31	142.91	144.41	145.82	146.28	139.46	138.57	137.77	137.98	137.95	
28	137.92	138.54	138.31	143.13	144.27	145.98	146.20	139.39	138.47	137.78	137.96	137.99	
29	137.91	138.52	138.27	143.33	144.18	146.28	146.10	139.30	138.50	137.82		137.99	
30	137.91	138.48	138.27	143.24	144.08	146.62	145.94	139.28	138.56	137.84		137.97	
31		138.46		142.94	143.97		145.45		138.50	137.84		138.00	
MEAN	137.86	138.18	138.38	141.92	144.05	144.65	147.00	140.58	138.63	137.99	138.01	138.03	
MAX	138.09	138.54	138.66	143.33	144.94	146.62	148.00	145.00	139.42	138.46	138.18	138.16	148.00
MIN	137.22	137.91	138.16	138.39	142.68	143.85	145.45	139.28	138.41	137.77	137.82	137.93	137.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 148.03 M (MSL), AT 24.00 HOURS, ON OCT 5, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	18.6	45.5	71.0	69.5	437.0	493.0	1216.0	628.0	125.6	73.0	42.0	50.0	
2	19.8	47.0	69.5	82.2	447.8	492.0	1360.0	556.0	128.8	70.5	41.0	52.0	
3	28.4	51.0	67.5	109.6	463.6	497.0	1404.8	499.0	121.0	70.5	41.0	53.0	
4	34.4	49.5	68.0	175.0	483.0	507.0	1446.4	455.0	110.2	71.5	41.5	54.5	
5	41.0	49.0	71.0	267.4	492.0	515.0	1472.0	405.5	97.6	64.5	45.5	55.5	
6	42.5	49.5	73.0	318.6	495.0	518.0	1465.6	351.7	90.4	55.0	46.5	56.5	
7	44.0	51.0	73.0	341.5	490.0	512.0	1440.0	301.0	87.1	50.0	47.0	56.0	
8	48.5	52.0	73.0	340.7	476.0	497.0	1408.0	249.0	82.8	47.0	49.0	58.0	
9	51.5	50.5	77.0	347.5	454.1	489.0	1385.6	195.3	79.0	43.5	49.5	57.5	
10	53.0	49.5	83.3	368.6	427.1	498.0	1324.8	182.0	77.0	50.5	50.0	57.0	
11	53.5	48.5	82.8	382.1	398.3	511.0	1283.2	168.7	76.5	55.0	50.0	57.0	
12	54.5	48.5	79.5	382.1	381.2	521.0	1244.8	149.8	72.5	55.5	50.0	56.5	
13	54.5	47.5	76.0	375.8	391.1	526.0	1212.8	134.6	71.5	56.0	50.0	56.0	
14	54.5	47.5	70.0	365.9	449.6	534.0	1180.8	136.0	71.0	53.0	52.0	55.0	
15	50.0	49.5	66.0	352.6	520.0	541.0	1152.0	143.8	70.5	48.5	52.5	53.5	
16	47.0	57.0	69.0	339.8	548.8	532.0	1136.0	147.0	70.5	45.5	52.5	49.5	
17	43.5	62.0	64.0	322.0	582.0	523.0	1126.4	145.7	71.5	43.5	55.0	49.5	
18	41.0	61.0	61.0	303.4	596.0	521.0	1120.0	145.7	72.0	42.5	55.5	50.0	
19	40.0	66.5	59.0	290.6	605.6	539.0	1104.0	145.7	71.5	43.0	55.5	49.0	
20	41.0	65.5	58.0	285.0	613.6	572.9	1075.2	143.8	71.5	43.0	54.5	48.0	
21	41.5	66.0	61.0	289.8	618.4	613.6	1043.2	142.4	73.5	41.5	54.5	47.5	
22	44.0	66.5	69.0	300.2	616.8	666.0	1027.2	142.4	77.0	41.5	53.5	47.5	
23	44.0	65.5	71.5	322.0	608.8	706.4	1014.4	141.2	81.6	42.0	57.5	46.5	
24	43.0	68.5	71.0	352.6	596.0	728.4	992.0	139.2	82.2	42.0	59.0	46.5	
25	43.0	68.5	67.5	374.0	582.0	750.8	974.0	137.3	77.0	40.5	58.5	47.0	
26	43.5	74.0	66.5	384.8	563.8	772.6	953.0	134.6	73.0	39.2	55.5	47.0	
27	45.0	75.5	65.5	401.9	545.2	801.2	926.4	131.4	78.5	38.8	49.0	47.5	
28	46.0	77.0	65.5	421.7	531.0	842.8	904.0	126.8	73.5	39.2	48.0	49.5	
29	45.5	76.0	63.5	439.7	522.0	926.4	876.0	121.0	75.0	41.0		49.5	
30	45.5	74.0	63.5	431.6	512.0	1030.4	832.4	119.8	78.0	42.0		48.5	
31		73.0		404.6	501.0		713.0		75.0	42.0		50.0	
TOTAL	1302.2	1832.5	2076.1	9942.8	15948.8	18177.5	35814.0	6619.4	2562.8	1531.2	1416.0	1601.0	98824.2 CMSDAY
MEAN	43.4	59.1	69.2	320.7	514.5	605.9	1155.3	220.6	82.7	49.4	50.6	51.6	270.8 CMS
MAX	54.5	77.0	83.3	439.7	618.4	1030.4	1472.0	628.0	128.8	73.0	59.0	58.0	1472.0 CMS
MIN	18.6	45.5	58.0	69.5	381.2	489.0	713.0	119.8	70.5	38.8	41.0	46.5	18.6 CMS
RUNOFF	112.51	158.33	179.37	859.06	1377.98	1570.53	3094.33	571.92	221.43	132.30	122.34	138.33	8538.41 MCM

MOMENTARY PEAK 1481.61 CMS, AT 148.03 M (MSL), AT 24.00 HOURS, ON OCT 5, 1978

RUNOFF YIELD 9.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 49.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-R.I.D.7

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 — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 248 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, 1978 TO MARCH 31, 1979

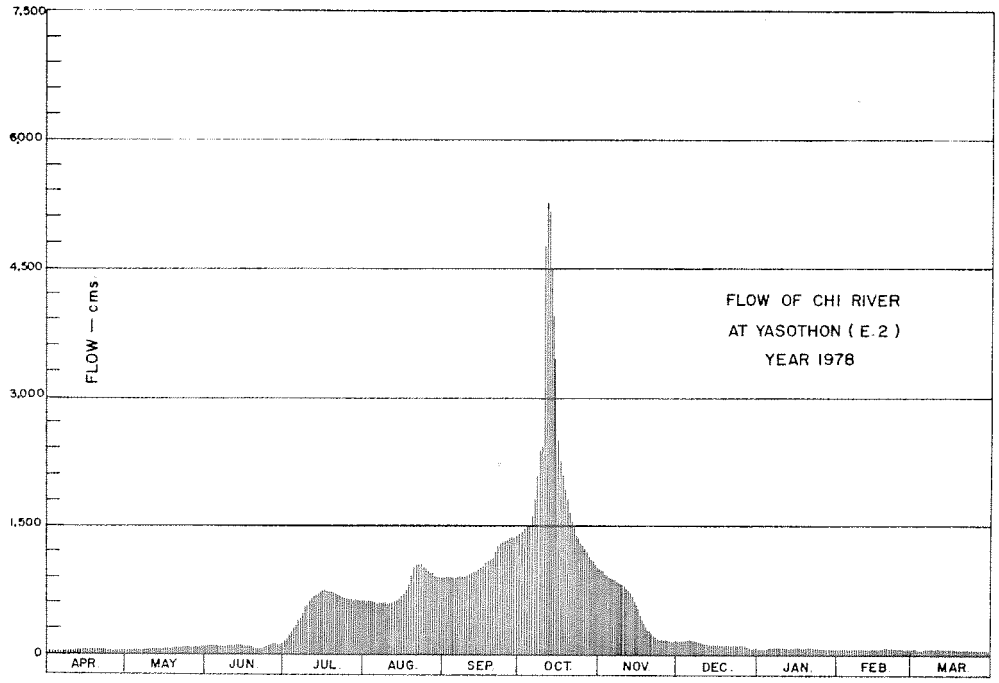
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	119.12	119.38	120.21	120.56	124.80	125.87	126.58	126.05	121.06	119.85	119.77	119.90	
2	119.10	119.42	120.21	121.26	124.77	125.88	126.62	126.00	121.06	119.83	119.78	119.84	
3	119.05	119.45	120.23	121.86	124.75	125.88	126.64	125.93	121.06	119.86	119.79	119.73	
4	119.00	119.45	120.23	122.29	124.73	125.86	126.65	125.87	121.08	119.89	119.80	119.73	
5	118.98	119.48	120.18	122.65	124.71	125.86	126.71	125.82	121.08	119.99	119.79	119.80	
6	118.98	119.50	120.05	123.01	124.70	125.87	126.88	125.78	121.06	120.08	119.79	119.84	
7	119.03	119.49	120.04	123.42	124.69	125.89	127.09	125.73	121.01	120.14	119.79	119.87	
8	119.14	119.48	120.16	123.80	124.68	125.91	127.32	125.67	120.96	120.15	119.79	119.88	
9	119.21	119.48	120.25	124.19	124.67	125.92	127.44	125.60	120.87	120.14	119.80	119.88	
10	119.27	119.50	120.31	124.50	124.65	125.93	127.82	125.52	120.76	120.08	119.82	119.88	
11	119.32	119.53	120.35	124.82	124.63	125.94	128.02	125.43	120.69	120.02	119.83	119.87	
12	119.37	119.54	120.39	125.04	124.69	125.98	128.00	125.29	120.63	119.95	119.83	119.88	
13	119.42	119.53	120.42	125.18	124.77	126.01	127.85	125.08	120.56	119.90	119.85	119.88	
14	119.46	119.54	120.42	125.27	124.86	126.05	127.66	124.75	120.51	119.90	119.87	119.89	
15	119.50	119.56	120.41	125.34	124.96	126.09	127.50	124.30	120.48	119.94	119.87	119.88	
16	119.52	119.68	120.37	125.37	125.09	126.14	127.29	123.77	120.45	119.99	119.87	119.87	
17	119.53	119.69	120.26	125.38	125.26	126.19	127.13	123.25	120.42	120.01	119.87	119.86	
18	119.53	119.75	120.13	125.36	125.56	126.23	127.01	122.78	120.40	120.02	119.90	119.85	
19	119.50	119.84	120.08	125.32	125.85	126.25	126.88	122.37	120.39	119.95	119.93	119.85	
20	119.47	119.89	120.01	125.25	126.04	126.29	126.77	122.03	120.37	119.92	119.93	119.84	
21	119.42	119.94	120.00	125.20	126.14	126.38	126.67	121.75	120.37	119.90	119.92	119.84	
22	119.38	119.96	120.04	125.14	126.17	126.44	126.59	121.54	120.37	119.87	119.92	119.84	
23	119.37	119.98	120.11	125.08	126.17	126.47	126.53	121.40	120.35	119.86	119.91	119.81	
24	119.37	120.00	120.35	125.02	126.13	126.49	126.48	121.31	120.33	119.85	119.90	119.79	
25	119.37	120.04	120.50	124.97	126.07	126.51	126.44	121.23	120.32	119.85	119.90	119.78	
26	119.38	120.03	120.59	124.93	126.01	126.52	126.38	121.17	120.31	119.85	119.91	119.77	
27	119.37	120.05	120.62	124.91	125.98	126.53	126.32	121.11	120.23	119.84	119.91	119.77	
28	119.36	120.08	120.58	124.89	125.93	126.53	126.27	121.09	120.09	119.82	119.91	119.77	
29	119.36	120.10	120.52	124.86	125.89	126.54	126.22	121.06	119.97	119.80		119.77	
30	119.36	120.13	120.48	124.86	125.88	126.55	126.15	121.04	119.90	119.78		119.77	
31		120.16		124.85	125.87		126.10		119.87	119.77		119.77	
MEAN	119.31	119.73	120.28	124.34	125.33	126.17	126.90	123.66	120.55	119.93	119.86	119.83	
MAX	119.53	120.16	120.62	125.38	126.17	126.55	128.02	126.05	121.08	120.15	119.93	119.90	128.02
MIN	118.98	119.38	120.00	120.56	124.63	125.86	126.10	121.04	119.87	119.77	119.77	119.73	118.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 128.10 M (MSL), AT 15.00 HOURS, ON OCT 11, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	30.1	42.0	96.8	124.8	629.0	904.0	1426.0	987.0	168.4	71.5	65.9	75.0	
2	29.2	44.2	96.8	186.4	623.9	908.0	1474.0	960.0	168.4	70.1	66.6	70.8	
3	27.2	46.0	98.4	245.0	620.5	908.0	1498.0	929.2	168.4	72.2	67.3	63.1	
4	25.3	46.0	98.4	289.9	617.1	900.0	1510.0	904.0	170.2	74.3	68.0	63.1	
5	24.6	47.8	94.6	329.5	613.7	900.0	1583.0	884.0	170.2	81.3	67.3	68.0	
6	24.6	49.0	85.5	372.2	612.0	904.0	1804.0	869.2	168.4	87.6	67.3	70.8	
7	26.5	48.4	84.8	423.6	610.3	912.0	2077.0	852.2	163.9	91.8	67.3	72.9	
8	30.9	47.8	93.2	474.0	608.6	920.4	2376.0	833.0	159.4	92.5	67.3	73.6	
9	34.0	47.8	100.0	530.5	606.9	924.8	2536.0	812.0	151.3	91.8	68.0	73.6	
10	36.8	49.0	104.8	578.0	603.5	929.2	4316.0	789.6	141.4	87.6	69.4	73.6	
11	39.2	50.8	108.0	632.6	600.1	933.6	5376.1	764.4	135.2	83.4	70.1	72.9	
12	41.6	51.4	111.2	674.0	610.3	951.2	5270.1	727.8	130.4	78.5	70.1	73.6	
13	44.2	50.8	113.6	703.6	623.9	965.4	4475.0	682.0	124.8	75.0	71.5	73.6	
14	46.6	51.4	113.6	723.4	639.8	987.0	3468.0	620.5	120.8	75.0	72.9	74.3	
15	49.0	52.6	112.8	740.4	658.4	1008.6	2620.0	547.0	118.4	77.8	72.9	73.6	
16	50.2	59.8	109.6	748.2	684.0	1038.0	2337.0	469.8	116.0	81.3	72.9	72.9	
17	50.8	60.4	100.8	750.8	721.2	1068.0	2129.0	401.5	113.6	82.7	72.9	72.2	
18	50.8	64.5	91.1	745.6	800.8	1095.3	1973.0	344.6	112.0	83.4	75.0	71.5	
19	49.0	70.8	87.6	735.2	896.0	1109.5	1804.0	298.7	111.2	78.5	77.1	71.5	
20	47.2	74.3	82.7	719.0	981.6	1137.9	1661.0	262.0	109.6	76.4	77.1	70.8	
21	44.2	77.8	82.0	708.0	1038.0	1213.0	1534.0	234.0	109.6	75.0	76.4	70.8	
22	42.0	79.2	84.8	694.8	1056.0	1270.0	1438.0	213.0	109.6	72.9	76.4	70.8	
23	41.6	80.6	89.7	682.0	1056.0	1300.0	1366.0	199.0	108.0	72.2	75.7	68.7	
24	41.6	82.0	108.0	670.0	1032.0	1320.0	1310.0	190.9	106.4	71.5	75.0	67.3	
25	41.6	84.8	120.0	660.3	997.8	1342.0	1270.0	183.7	105.6	71.5	75.0	66.6	
26	42.0	84.1	127.2	652.7	965.4	1354.0	1213.0	178.3	104.8	71.5	75.7	65.9	
27	41.6	85.5	129.6	648.9	951.2	1366.0	1162.0	172.9	98.4	70.8	75.7	65.9	
28	41.1	87.6	126.4	645.2	929.2	1366.0	1123.7	171.1	88.3	69.4	75.7	65.9	
29	41.1	89.0	121.6	639.8	912.0	1378.0	1088.2	168.4	79.9	68.0		65.9	
30	41.1	91.1	118.4	639.8	908.0	1390.0	1044.0	166.6	75.0	66.6		65.9	
31		93.2		638.0	904.0		1014.0		72.9	65.9		65.9	
TOTAL	1175.7	1989.7	3092.0	18006.2	24111.2	32703.9	65276.1	15816.4	3880.5	2388.0	2012.5	2171.0	172623.0 CMSDAY
MEAN	39.2	64.2	103.1	580.8	777.8	1090.1	2105.7	527.2	125.2	77.0	71.9	70.0	472.9 CMS
MAX	50.8	93.2	129.6	750.8	1056.0	1390.0	5376.1	987.0	170.2	92.5	77.1	75.0	5376.1 CMS
MIN	24.6	42.0	82.0	124.8	600.1	900.0	1014.0	166.6	72.9	65.9	65.9	63.1	24.6 CMS
RUNOFF	101.58	171.91	267.15	1555.73	2083.21	2825.62	5639.85	1366.54	335.27	206.32	173.88	187.57	14914.62 MCM

MOMENTARY PEAK 5800.00 CMS, AT 128.10 M (MSL), AT 15.00 HOURS, ON OCT 11, 1978

RUNOFF YIELD 9.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 122.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

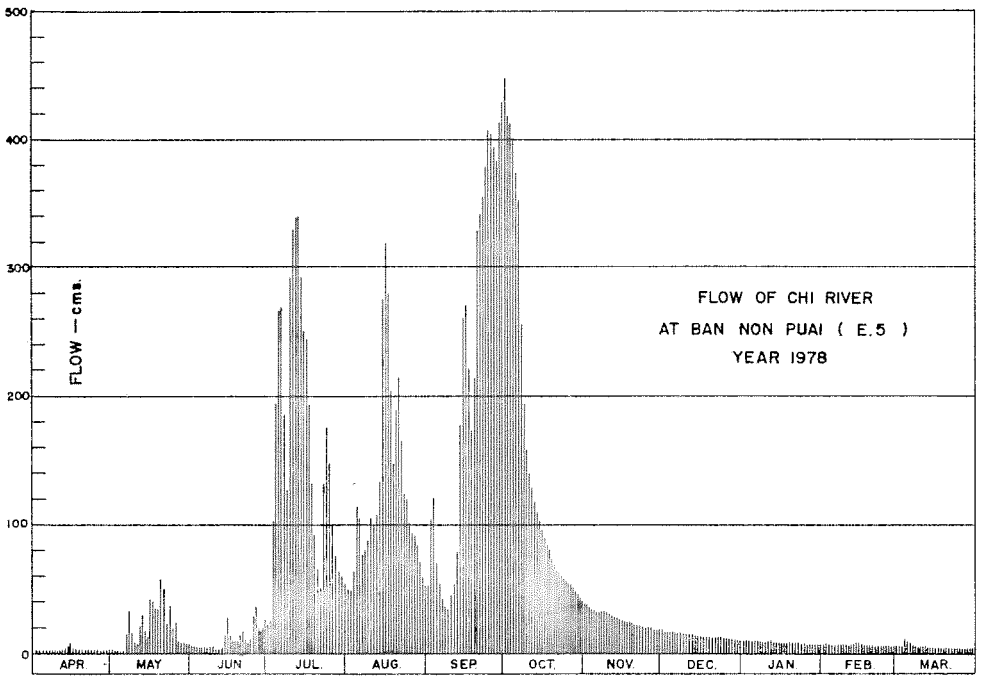
CHI RIVER NEAR BAN NON PUAI, CHAIYAPHUM (E.5)

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	1967-1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1973
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 117 DISCHARGE MEASUREMENTS MADE IN 1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	186.65	186.73	187.09	187.96	189.10	189.26	198.26	188.67	187.75	187.36	187.14	187.01	
2	186.63	186.72	187.02	188.18	189.05	191.04	197.79	188.61	187.72	187.35	187.14	187.01	
3	186.63	186.71	186.97	190.93	189.36	191.66	197.62	188.55	187.71	187.33	187.13	187.10	
4	186.64	186.68	186.95	193.57	190.41	190.02	197.36	188.50	187.69	187.33	187.12	187.38	
5	186.64	186.69	186.93	195.05	191.34	189.44	197.09	188.45	187.67	187.32	187.12	187.30	
6	186.63	186.75	186.94	195.11	190.86	189.08	196.79	188.43	187.66	187.30	187.11	187.16	
7	186.61	187.56	186.98	193.77	190.14	188.79	196.47	188.41	187.64	187.30	187.09	187.10	
8	186.61	188.42	186.98	191.78	190.26	188.58	194.81	188.47	187.63	187.31	187.10	187.06	
9	186.63	187.61	187.02	193.35	190.47	188.51	193.59	188.47	187.61	187.31	187.08	187.04	
10	186.61	187.21	187.02	195.37	191.08	188.94	192.32	188.40	187.60	187.32	187.07	187.02	
11	186.60	187.14	186.97	196.07	190.90	189.27	191.98	188.35	187.60	187.32	187.10	187.01	
12	186.61	187.91	186.93	196.25	191.14	189.51	191.67	188.27	187.59	187.34	187.10	187.00	
13	186.62	188.29	186.93	196.25	192.01	191.05	191.45	188.23	187.56	187.31	187.11	186.98	
14	187.04	187.69	187.48	195.36	193.40	193.18	191.07	188.19	187.54	187.29	187.21	186.96	
15	187.20	187.46	188.22	194.61	195.20	194.79	190.90	188.14	187.53	187.29	187.16	186.95	
16	186.91	188.78	187.54	194.48	195.86	194.97	190.67	188.10	187.50	187.26	187.13	186.95	
17	186.86	188.67	187.27	193.50	195.30	193.94	190.49	188.06	187.47	187.25	187.11	186.94	
18	186.87	188.50	187.30	191.90	193.76	193.08	190.33	188.05	187.48	187.24	187.09	186.94	
19	186.81	188.44	187.31	190.60	192.40	193.92	190.08	188.03	187.49	187.23	187.07	186.94	
20	186.81	189.40	187.53	189.77	193.45	195.36	189.91	188.00	187.48	187.22	187.06	186.93	
21	186.79	189.09	187.63	189.54	193.91	196.10	189.78	187.96	187.47	187.21	187.06	186.93	
22	186.82	188.04	187.33	189.14	192.81	196.43	189.64	187.94	187.46	187.20	187.05	186.93	
23	186.82	187.97	187.22	192.07	191.67	196.65	189.53	187.91	187.45	187.20	187.05	186.93	
24	186.79	188.57	187.38	193.12	191.52	197.01	189.44	187.89	187.45	187.17	187.04	186.92	
25	186.79	187.78	188.21	192.32	190.81	197.48	189.35	187.86	187.43	187.17	187.03	186.91	
26	186.77	187.47	188.56	190.82	190.66	197.45	189.29	187.84	187.42	187.17	187.02	186.90	
27	186.73	187.26	187.92	190.07	190.64	197.26	189.23	187.83	187.42	187.16	187.02	186.90	
28	186.70	187.18	187.73	189.62	190.42	197.08	189.09	187.81	187.41	187.15	187.01	186.90	
29	186.75	187.21	187.83	189.63	189.91	197.29	188.96	187.78	187.38	187.15		186.89	
30	186.76	187.21	188.15	189.45	189.53	197.73	188.85	187.77	187.37	187.15		186.88	
31		187.14		189.25	189.26		188.74		187.37	187.15		186.88	
MEAN	186.74	187.69	187.38	192.22	191.50	193.16	192.02	188.17	187.53	187.25	187.09	186.99	
MAX	187.20	189.40	188.56	196.25	195.86	197.73	198.26	188.67	187.75	187.36	187.21	187.38	198.26
MIN	186.60	186.68	186.93	187.96	189.05	188.51	188.74	187.77	187.37	187.15	187.01	186.88	186.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 198.31 M (MSL), AT 6.00 HOURS, ON OCT 1, 1978
ZERO GAGE AT BOTTOM ELEVATION 186.07 M (MSL), RIVER BED 186.38 M (MSL)
LEFT BANK ELEVATION 197.30 M (MSL)
RIGHT BANK ELEVATION 197.52 M (MSL), DRAINAGE AREA 4254 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	1.30	6.35	22.70	49.75	53.80	446.54	38.87	18.50	10.70	7.10	5.15	
2	0.65	1.20	5.30	27.10	48.48	104.20	419.38	37.35	17.90	10.50	7.10	5.15	
3	0.65	1.10	4.55	100.90	56.33	122.80	412.46	35.83	17.70	10.10	6.95	6.50	
4	0.70	0.90	4.25	193.80	85.30	73.60	398.61	34.56	17.30	10.10	6.80	11.10	
5	0.70	0.95	3.95	275.58	113.20	58.36	384.23	33.30	16.90	9.90	6.80	9.50	
6	0.65	1.50	4.10	278.77	98.80	49.24	368.25	32.79	16.70	9.50	6.65	7.40	
7	0.55	14.70	4.70	206.90	77.20	41.90	351.21	32.28	16.30	9.50	6.35	6.50	
8	0.55	32.94	4.70	126.80	80.80	36.59	262.79	33.80	16.10	9.70	6.50	5.90	
9	0.65	15.70	5.30	185.00	87.10	34.82	194.60	33.80	15.70	9.70	6.20	5.60	
10	0.55	8.15	5.30	292.62	105.40	45.70	145.70	32.03	15.50	9.90	6.05	5.30	
11	0.50	7.10	4.55	329.90	100.00	54.05	133.80	30.77	15.50	9.90	6.50	5.15	
12	0.55	21.70	3.95	339.49	107.20	60.13	123.10	28.90	15.30	10.30	6.50	5.00	
13	0.60	29.30	3.95	339.49	134.85	104.50	116.50	28.10	14.70	9.70	6.65	4.70	
14	5.60	17.30	13.10	292.09	187.00	178.20	105.10	27.30	14.30	9.35	8.15	4.40	
15	8.00	12.70	27.90	252.14	283.56	261.73	100.00	26.30	14.10	9.35	7.40	4.25	
16	3.65	41.65	14.30	245.22	318.72	271.31	93.10	25.50	13.50	8.90	6.95	4.25	
17	2.90	38.87	9.05	191.00	288.89	216.46	87.70	24.70	12.90	8.75	6.65	4.10	
18	3.05	34.56	9.50	131.00	206.20	174.20	82.90	24.50	13.10	8.60	6.35	4.10	
19	2.15	33.04	9.70	91.00	148.50	215.39	75.40	24.10	13.30	8.45	6.05	4.10	
20	2.15	57.34	14.10	66.71	189.00	292.09	70.30	23.50	13.10	8.30	5.90	3.95	
21	1.90	49.50	16.10	60.89	214.86	331.50	66.96	22.70	12.90	8.15	5.90	3.95	
22	2.30	24.30	10.10	50.76	163.40	349.08	63.42	22.30	12.70	8.00	5.75	3.95	
23	2.30	22.90	8.30	136.95	123.10	360.79	60.63	21.70	12.50	8.00	5.75	3.95	
24	1.90	36.33	11.10	175.80	118.60	379.97	58.36	21.30	12.50	7.55	5.60	3.80	
25	1.90	19.10	27.70	145.70	97.30	405.00	56.08	20.70	12.10	7.55	5.45	3.65	
26	1.70	12.90	36.08	97.60	92.80	403.40	54.56	20.30	11.90	7.55	5.30	3.50	
27	1.30	8.90	21.90	75.10	92.20	393.28	53.04	20.10	11.90	7.40	5.30	3.50	
28	1.00	7.70	18.10	62.91	85.60	383.70	49.50	19.70	11.70	7.25	5.15	3.50	
29	1.50	8.15	20.10	63.17	70.30	394.88	46.21	19.10	11.10	7.25		3.35	
30	1.60	8.15	26.50	58.61	60.63	418.31	43.42	18.90	10.90	7.25		3.20	
31		7.10		53.55	53.80		40.64		10.90	7.25		3.20	
TOTAL	52.95	576.63	354.58	4969.24	3938.87	6268.98	4964.48	815.08	439.50	274.40	177.80	151.65	22984.14 CMSDAY
MEAN	1.76	18.60	11.82	160.30	127.06	208.97	160.14	27.17	14.18	8.85	6.35	4.89	62.97 CMS
MAX	8.00	57.34	36.08	339.49	318.72	418.31	446.54	38.87	18.50	10.70	8.15	11.10	446.54 CMS
MIN	0.50	0.90	3.95	22.70	48.48	34.82	40.64	18.90	10.90	7.25	5.15	3.20	0.50 CMS
RUNOFF	4.575	49.821	30.636	429.343	340.318	541.639	428.931	70.423	37.973	23.708	15.362	13.103	1985.830 MCM

MOMENTARY PEAK 449.21 CMS, AT 198.31 M (MSL), AT 6.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 14.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 105.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

HUAI TAT TON AT BAN TAT TON, CHAIYAPHUM (E.6C)

LOCATION — LAT. 15°-57'-36" 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.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

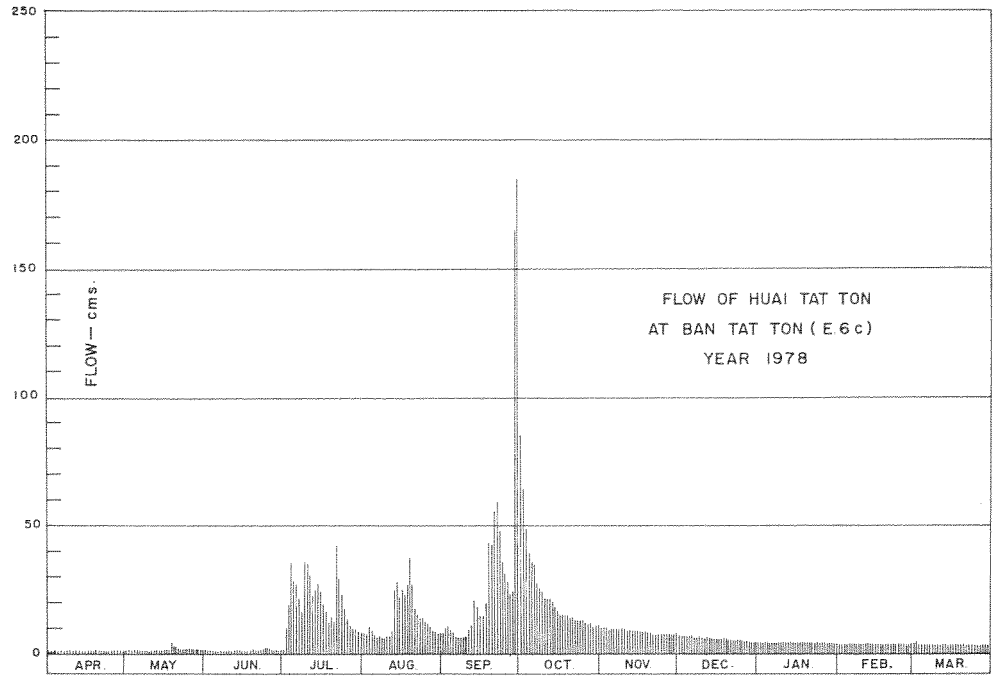
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +7.67 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 127 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.18	0.36	0.42	1.68	1.79	5.92	2.00	1.50	1.13	1.00	0.99	
2	0.18	0.17	0.35	1.96	1.53	2.04	5.31	1.97	1.48	1.12	1.00	1.03	
3	0.17	0.17	0.33	3.05	2.08	2.00	4.84	1.94	1.46	1.12	1.00	0.99	
4	0.17	0.16	0.33	4.34	1.85	1.69	4.56	1.92	1.44	1.11	1.00	0.99	
5	0.16	0.16	0.32	3.91	1.66	1.54	4.38	1.88	1.43	1.12	1.00	0.98	
6	0.16	0.23	0.31	3.77	1.49	1.44	4.35	1.92	1.42	1.12	1.00	0.98	
7	0.16	0.34	0.30	3.18	1.42	1.48	4.00	1.93	1.40	1.12	0.99	0.96	
8	0.22	0.41	0.30	2.68	1.40	1.39	3.77	1.90	1.38	1.11	0.99	0.96	
9	0.21	0.35	0.30	3.75	1.41	1.50	3.56	1.87	1.36	1.11	0.99	0.95	
10	0.21	0.31	0.29	4.40	1.46	1.49	3.41	1.85	1.35	1.10	0.99	0.95	
11	0.19	0.35	0.28	4.31	1.49	1.83	3.30	1.84	1.34	1.10	1.00	0.95	
12	0.19	0.32	0.29	3.80	1.71	2.04	3.25	1.82	1.38	1.09	1.00	0.95	
13	0.19	0.34	0.56	3.33	3.61	3.21	3.13	1.79	1.32	1.08	1.00	0.93	
14	0.19	0.34	0.43	3.86	3.97	2.88	2.93	1.75	1.31	1.07	1.00	0.94	
15	0.18	0.33	0.36	3.85	3.24	2.55	2.78	1.72	1.29	1.06	1.00	0.94	
16	0.19	0.36	0.33	3.33	2.68	2.50	2.70	1.72	1.28	1.05	1.00	0.94	
17	0.18	0.37	0.33	2.82	2.50	2.57	2.62	1.75	1.27	1.05	1.00	0.94	
18	0.17	0.35	0.36	2.54	2.84	3.32	2.56	1.69	1.26	1.05	1.00	0.94	
19	0.17	1.06	0.46	2.25	4.44	4.66	2.52	1.68	1.24	1.05	1.00	0.94	
20	0.20	0.82	0.67	2.43	3.50	4.63	2.47	1.67	1.23	1.04	0.99	0.93	
21	0.20	0.55	0.50	2.17	2.82	5.08	2.42	1.65	1.22	1.04	0.99	0.93	
22	0.20	0.47	0.53	4.59	2.58	5.20	2.38	1.64	1.21	1.04	0.99	0.93	
23	0.19	0.43	0.52	3.95	2.49	4.96	2.35	1.63	1.20	1.03	0.98	0.93	
24	0.19	0.64	0.67	3.13	2.39	4.53	2.31	1.61	1.20	1.03	0.98	0.92	
25	0.20	0.54	0.63	2.56	2.14	4.05	2.29	1.60	1.19	1.03	0.98	0.92	
26	0.20	0.51	0.53	2.27	2.03	3.84	2.23	1.59	1.18	1.03	0.96	0.93	
27	0.20	0.49	0.49	2.08	1.91	3.54	2.18	1.59	1.17	1.03	0.95	0.93	
28	0.20	0.45	0.46	1.93	1.79	5.66	2.15	1.57	1.16	1.03	0.99	0.93	
29	0.20	0.43	0.48	1.82	1.67	7.63	2.11	1.56	1.16	1.02		0.92	
30	0.20	0.40	0.45	1.72	1.59	7.94	2.07	1.55	1.15	1.01		0.91	
31		0.38		1.76	1.65		2.03		1.14	1.01		0.92	
MEAN	0.19	0.40	0.42	2.97	2.23	3.30	3.13	1.75	1.29	1.07	0.99	0.95	
MAX	0.22	1.06	0.67	4.59	4.44	7.94	5.92	2.00	1.50	1.13	1.00	1.03	7.94
MIN	0.16	0.16	0.28	0.42	1.40	1.39	2.03	1.55	1.14	1.01	0.95	0.91	0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.24 M (A.D), AT 19.00 HOURS, ON SEP 29, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 7.81 M (A.D)
RIGHT BANK ELEVATION 7.67 M (A.D), DRAINAGE AREA 300 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.32	1.04	1.28	8.16	8.93	84.88	10.50	6.90	4.68	3.90	3.84	
2	0.32	0.28	1.00	10.18	7.11	10.82	62.65	10.26	6.78	4.62	3.90	4.08	
3	0.28	0.28	0.92	19.15	11.14	10.50	47.76	10.02	6.66	4.62	3.90	3.84	
4	0.28	0.24	0.92	34.80	9.35	8.23	39.96	9.86	6.54	4.56	3.90	3.84	
5	0.24	0.24	0.88	27.64	8.02	7.18	35.60	9.56	6.48	4.62	3.90	3.78	
6	0.24	0.52	0.84	25.87	6.84	6.54	35.00	9.86	6.42	4.62	3.90	3.78	
7	0.24	0.96	0.80	20.32	6.42	6.78	28.90	9.94	6.30	4.62	3.84	3.66	
8	0.48	1.24	0.80	15.94	6.30	6.24	25.87	9.70	6.18	4.56	3.84	3.66	
9	0.44	1.00	0.80	25.65	6.36	6.90	23.74	9.49	6.06	4.56	3.84	3.60	
10	0.44	0.84	0.76	36.00	6.66	6.84	22.39	9.35	6.00	4.50	3.84	3.60	
11	0.36	1.00	0.72	34.20	6.84	9.21	21.40	9.28	5.94	4.50	3.90	3.60	
12	0.36	0.88	0.76	26.20	8.37	10.82	20.95	9.14	6.18	4.44	3.90	3.60	
13	0.36	0.96	1.84	21.67	24.20	20.59	19.87	8.93	5.82	4.38	3.90	3.48	
14	0.36	0.96	1.32	26.98	28.48	17.62	18.07	8.65	5.76	4.32	3.90	3.54	
15	0.32	0.92	1.04	26.85	20.86	14.90	16.74	8.44	5.64	4.26	3.90	3.54	
16	0.36	1.04	0.92	21.67	15.94	14.50	16.10	8.44	5.58	4.20	3.90	3.54	
17	0.32	1.08	0.92	17.08	14.50	15.06	15.46	8.65	5.52	4.20	3.90	3.54	
18	0.28	1.00	1.04	14.82	17.26	21.58	14.98	8.23	5.46	4.20	3.90	3.54	
19	0.28	4.26	1.44	12.50	36.96	42.62	14.66	8.16	5.34	4.20	3.90	3.54	
20	0.40	2.90	2.28	13.94	23.20	41.81	14.26	8.09	5.28	4.14	3.84	3.48	
21	0.40	1.80	1.60	11.86	17.08	55.08	13.86	7.95	5.22	4.14	3.84	3.48	
22	0.40	1.48	1.72	40.74	15.14	58.90	13.54	7.88	5.16	4.14	3.84	3.48	
23	0.36	1.32	1.68	28.20	14.42	51.36	13.30	7.81	5.10	4.08	3.78	3.48	
24	0.36	2.16	2.28	19.87	13.62	39.18	12.98	7.67	5.10	4.08	3.78	3.42	
25	0.40	1.76	2.12	14.98	11.62	29.65	12.82	7.60	5.04	4.08	3.78	3.42	
26	0.40	1.64	1.72	12.66	10.74	26.72	12.34	7.53	4.98	4.08	3.66	3.48	
27	0.40	1.56	1.56	11.14	9.78	23.56	11.94	7.53	4.92	4.08	3.60	3.48	
28	0.40	1.40	1.44	9.94	8.93	75.06	11.70	7.39	4.86	4.08	3.84	3.48	
29	0.40	1.32	1.52	9.14	8.09	164.80	11.38	7.32	4.86	4.02		3.42	
30	0.40	1.20	1.40	8.44	7.53	184.04	11.06	7.25	4.80	3.96		3.36	
31		1.12		8.72	7.95		10.74		4.74	3.96		3.42	
TOTAL	10.60	37.68	38.08	608.43	397.87	996.02	714.90	260.48	175.62	133.50	107.82	111.00	3591.99 CMSDAY
MEAN	0.35	1.22	1.27	19.63	12.83	33.20	23.06	8.68	5.67	4.31	3.85	3.58	9.84 CMS
MAX	0.48	4.26	2.28	40.74	36.96	184.04	84.88	10.50	6.90	4.68	3.90	4.08	184.04 CMS
MIN	0.24	0.24	0.72	1.28	6.30	6.24	10.74	7.25	4.74	3.96	3.60	3.36	0.24 CMS
RUNOFF	0.916	3.256	3.290	52.568	34.376	86.056	61.767	22.505	15.174	11.534	9.316	9.590	310.348 MCM

MOMENTARY PEAK 205.04 CMS, AT 8.24 M (A.D), AT 19.00 HOURS, ON SEP 29, 1978
RUNOFF YIELD 32.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 683.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

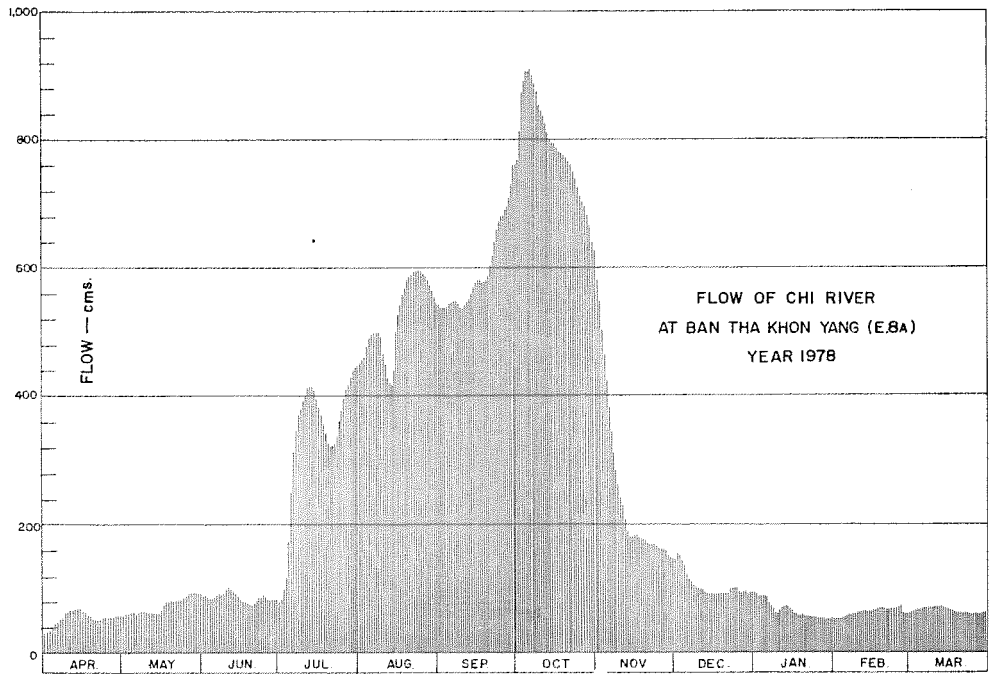
CHI RIVER AT BAN THA KHON YANG, MAHA SARAKHAM (E.8A)

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.S.
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	OVERBANK FLOW STARTS AT ELEVATION +143.87 M.(M.S.L.) AND IS INCLUDED.
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.30	134.90	135.49	135.31	140.72	141.69	143.87	142.20	136.49	135.53	134.76	134.94	
2	134.34	134.92	135.45	135.51	140.80	141.67	144.32	141.74	136.59	135.47	134.75	134.99	
3	134.40	134.97	135.42	136.08	140.95	141.65	144.85	141.29	136.55	135.44	134.76	135.01	
4	134.52	135.00	135.40	136.93	141.10	141.69	145.02	140.87	136.41	135.45	134.78	135.05	
5	134.68	134.99	135.42	138.12	141.22	141.74	145.14	140.35	136.28	135.43	134.82	135.05	
6	134.77	134.98	135.50	139.05	141.28	141.77	145.16	139.83	136.01	135.28	134.85	135.10	
7	134.80	135.00	135.55	139.57	141.29	141.77	145.09	139.32	135.89	135.15	134.85	135.09	
8	134.88	135.04	135.52	139.73	141.24	141.71	144.98	138.76	135.80	135.03	134.87	135.09	
9	134.97	135.04	135.59	139.80	141.14	141.66	144.87	138.31	135.72	134.94	134.92	135.10	
10	135.03	134.99	135.71	139.97	140.86	141.64	144.73	137.95	135.68	134.89	134.93	135.10	
11	135.06	134.99	135.77	140.17	140.64	141.71	144.58	137.82	135.67	135.04	134.94	135.12	
12	135.08	134.98	135.72	140.26	140.38	141.78	144.45	137.45	135.60	135.09	134.95	135.10	
13	135.09	134.98	135.65	140.26	140.32	141.87	144.29	137.16	135.53	135.11	134.95	135.09	
14	135.11	134.98	135.54	140.20	140.58	141.97	144.19	137.00	135.50	135.09	134.97	135.08	
15	135.06	134.98	135.42	140.08	141.24	142.04	144.13	137.02	135.49	135.00	134.98	135.06	
16	134.95	135.11	135.34	139.90	141.61	142.07	144.07	137.07	135.49	134.91	135.02	135.03	
17	134.88	135.25	135.30	139.72	141.81	142.06	144.03	137.03	135.49	134.87	135.04	134.99	
18	134.82	135.30	135.27	139.49	141.96	142.04	143.99	136.98	135.51	134.85	135.06	134.96	
19	134.77	135.33	135.23	139.30	142.07	142.07	143.97	136.95	135.50	134.87	135.08	134.94	
20	134.76	135.35	135.21	139.15	142.13	142.17	143.94	136.90	135.49	134.84	135.05	134.92	
21	134.76	135.36	135.25	139.11	142.18	142.44	143.89	136.84	135.53	134.81	135.04	134.90	
22	134.78	135.38	135.45	139.14	142.22	142.67	143.82	136.84	135.57	134.79	135.05	134.89	
23	134.82	135.37	135.40	139.30	142.22	142.87	143.71	136.83	135.67	134.79	135.05	134.89	
24	134.83	135.41	135.50	139.63	142.23	142.99	143.60	136.79	135.72	134.79	135.09	134.89	
25	134.82	135.48	135.46	139.94	142.22	143.09	143.48	136.75	135.68	134.77	135.11	134.89	
26	134.81	135.58	135.41	140.12	142.17	143.15	143.35	136.72	135.57	134.74	135.11	134.89	
27	134.84	135.59	135.39	140.27	142.10	143.22	143.21	136.68	135.54	134.73	134.94	134.88	
28	134.87	135.61	135.38	140.42	142.01	143.34	143.09	136.61	135.57	134.74	134.92	134.89	
29	134.89	135.61	135.37	140.54	141.92	143.57	142.93	136.52	135.50	134.74		134.93	
30	134.89	135.58	135.35	140.62	141.84	143.85	142.77	136.46	135.58	134.75		134.93	
31		135.53		140.67	141.75		142.55		135.60	134.77		134.91	
MEAN	134.82	135.21	135.45	139.30	141.49	142.27	144.07	137.97	135.75	134.99	134.95	134.99	
MAX	135.11	135.61	135.77	140.67	142.23	143.85	145.16	142.20	136.59	135.53	135.11	135.12	145.16
MIN	134.30	134.90	135.21	135.31	140.32	141.64	142.55	136.46	135.49	134.73	134.75	134.88	134.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 145.16 M (MSL), AT 12.00 HOURS, ON OCT 6, 1978
ZERO GAGE AT BOTTOM ELEVATION 133.21 M (MSL), RIVER BED 133.68 M (MSL)
LEFT BANK ELEVATION 144.27 M (MSL)
RIGHT BANK ELEVATION 143.87 M (MSL), DRAINAGE AREA 30764 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	35.0	60.0	89.5	80.5	451.8	541.0	763.7	592.0	146.1	91.5	53.4	62.0	
2	36.6	61.0	87.5	90.5	459.0	539.0	813.2	546.0	152.2	88.5	53.0	64.5	
3	39.0	63.5	86.0	121.0	472.5	537.0	871.5	503.1	149.8	87.0	53.4	65.5	
4	43.8	65.0	85.0	173.0	486.0	541.0	890.4	465.3	141.2	87.5	54.2	67.5	
5	50.2	64.5	86.0	250.4	496.8	546.0	904.8	422.0	133.2	86.5	56.0	67.5	
6	53.8	64.0	90.0	318.0	502.2	549.0	907.2	380.4	116.7	79.0	57.5	70.0	
7	55.0	65.0	92.5	359.6	503.1	549.0	898.8	339.6	109.5	72.5	57.5	69.5	
8	59.0	67.0	91.0	372.4	498.6	543.0	885.8	295.2	105.0	66.5	58.5	69.5	
9	63.5	67.0	94.5	378.0	489.6	538.0	873.7	263.7	101.0	62.0	61.0	70.0	
10	66.5	64.5	100.5	391.6	464.4	536.0	858.3	238.5	99.0	59.5	61.5	70.0	
11	68.0	64.5	103.5	407.6	445.2	543.0	841.8	229.4	98.5	67.0	62.0	71.0	
12	69.0	64.0	101.0	414.8	424.4	550.0	827.5	204.8	95.0	69.5	62.5	70.0	
13	69.5	64.0	97.5	414.8	419.6	559.0	809.9	187.1	91.5	70.5	62.5	69.5	
14	70.5	64.0	92.0	410.0	440.4	569.0	798.9	177.3	90.0	69.5	63.5	69.0	
15	68.0	64.0	86.0	400.4	498.6	576.0	792.3	178.5	89.5	65.0	64.0	68.0	
16	62.5	70.5	82.0	386.0	533.0	579.0	785.7	181.6	89.5	60.5	66.0	66.5	
17	59.0	77.5	80.0	371.6	553.0	578.0	781.3	179.1	89.5	58.5	67.0	64.5	
18	56.0	80.0	78.5	353.2	568.0	576.0	776.9	176.1	90.5	57.5	68.0	63.0	
19	53.8	81.5	76.5	338.0	579.0	579.0	774.7	174.2	90.0	58.5	69.0	62.0	
20	53.4	82.5	75.5	326.0	585.0	589.0	771.4	171.2	89.5	57.0	67.5	61.0	
21	53.4	83.0	77.5	322.8	590.0	616.0	765.9	167.5	91.5	55.5	67.0	60.0	
22	54.2	84.0	87.5	325.2	594.0	639.0	758.2	167.5	93.5	54.6	67.5	59.5	
23	56.0	83.5	85.0	338.0	594.0	659.0	746.6	166.9	98.5	54.6	67.5	59.5	
24	56.5	85.5	90.0	364.4	595.0	671.0	735.0	164.4	101.0	54.6	69.5	59.5	
25	56.0	89.0	88.0	389.2	594.0	681.4	722.4	162.0	99.0	53.8	70.5	59.5	
26	55.5	94.0	85.5	403.6	589.0	687.7	708.7	160.2	93.5	52.6	70.5	59.5	
27	57.0	94.5	84.5	415.6	582.0	695.1	694.0	157.7	92.0	52.2	62.0	59.0	
28	58.5	95.5	84.0	427.6	573.0	707.7	681.4	153.4	93.5	52.6	61.0	59.5	
29	59.5	95.5	83.5	437.2	564.0	731.8	665.0	147.9	90.0	52.6		61.5	
30	59.5	94.0	82.5	443.6	556.0	761.5	649.0	144.3	94.0	53.0		61.5	
31		91.5		447.6	547.0		627.0		95.0	53.8		60.5	
TOTAL	1698.2	2344.0	2623.0	10672.2	16248.2	17967.2	24381.0	7496.9	3208.7	2003.9	1753.5	2000.0	92396.7 CMSDAY
MEAN	56.6	75.6	87.4	344.3	524.1	598.9	786.5	249.9	103.5	64.6	62.6	64.5	253.1 CMS
MAX	70.5	95.5	103.5	447.6	595.0	761.5	907.2	592.0	152.2	91.5	70.5	71.0	907.2 CMS
MIN	35.0	60.0	75.5	80.5	419.6	536.0	627.0	144.3	89.5	52.2	53.0	59.0	35.0 CMS
RUNOFF	146.72	202.52	226.63	922.08	1403.84	1552.37	2106.52	647.73	277.23	173.14	151.50	172.80	7983.07 MCM

MOMENTARY PEAK 907.20 CMS, AT 145.16 M (MSL), AT 12.00 HOURS, ON OCT 6, 1978

RUNOFF YIELD 8.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 29.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — ABOUT 45 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +11.931 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 — 1958 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1973

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE DURING 1967-1969.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

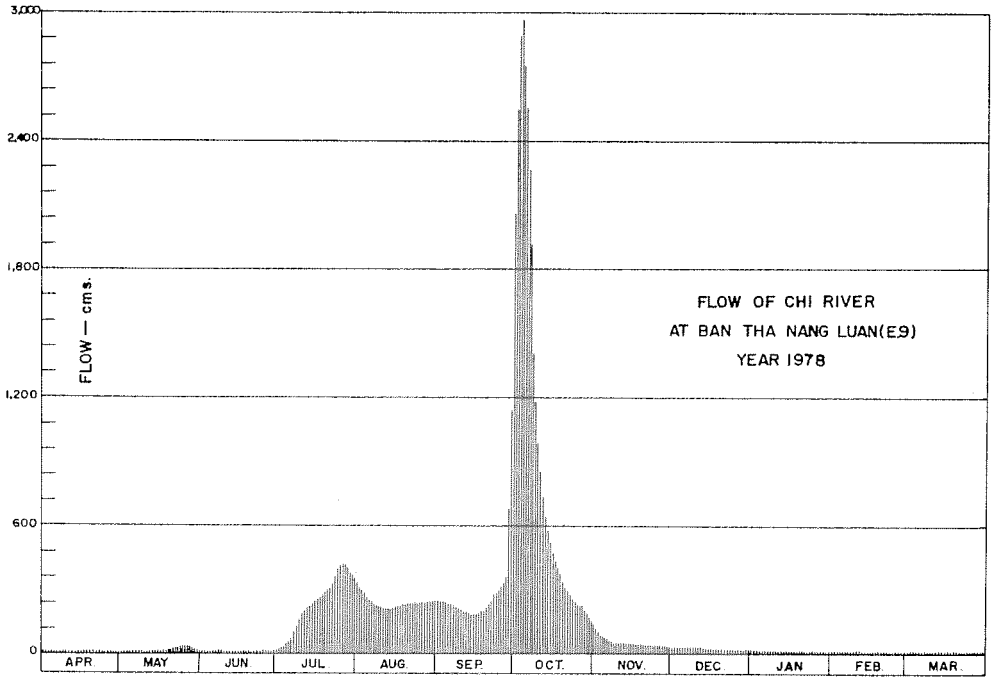
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.76	2.21	2.82	9.36	9.07	11.46	7.10	3.60	2.79	2.44	2.37	
2	0.60	0.76	1.99	2.99	9.31	9.07	11.72	6.50	3.58	2.76	2.44	2.37	
3	0.59	0.77	1.80	3.28	9.27	9.08	11.93	6.04	3.58	2.75	2.43	2.33	
4	0.59	0.80	1.74	3.77	9.21	9.05	11.97	5.70	3.53	2.74	2.42	2.32	
5	0.60	0.81	1.69	4.36	9.14	9.01	11.84	5.42	3.51	2.72	2.39	2.31	
6	0.56	0.90	1.63	4.95	9.08	8.96	11.61	5.18	3.50	2.71	2.38	2.30	
7	0.54	0.90	1.56	5.74	9.02	8.89	11.37	4.88	3.48	2.69	2.36	2.28	
8	0.52	0.88	1.45	6.92	8.95	8.86	11.02	4.62	3.40	2.69	2.34	2.26	
9	0.53	0.83	1.38	7.76	8.88	8.83	10.78	4.51	3.35	2.69	2.32	2.23	
10	0.60	0.81	1.31	8.22	8.84	8.75	10.54	4.45	3.30	2.69	2.30	2.23	
11	0.62	0.84	1.29	8.54	8.78	8.69	10.35	4.42	3.16	2.69	2.27	2.26	
12	0.58	0.96	1.27	8.74	8.73	8.59	10.16	4.41	3.13	2.68	2.26	2.34	
13	0.56	1.83	1.25	8.85	8.76	8.51	10.02	4.39	3.09	2.67	2.23	2.45	
14	0.59	2.19	1.26	8.93	8.80	8.50	9.90	4.38	3.07	2.67	2.23	2.43	
15	0.61	2.12	1.33	9.01	8.82	8.50	9.80	4.31	3.03	2.66	2.32	2.39	
16	0.62	2.04	1.29	9.06	8.83	8.50	9.70	4.22	3.03	2.65	2.33	2.35	
17	0.61	2.21	1.25	9.11	8.86	8.52	9.61	4.16	3.05	2.61	2.32	2.31	
18	0.62	2.42	1.21	9.16	8.89	8.60	9.52	4.10	3.04	2.60	2.32	2.35	
19	0.66	2.47	1.65	9.22	8.93	8.72	9.45	4.02	3.01	2.58	2.31	2.33	
20	0.69	2.52	2.16	9.24	8.95	8.86	9.37	3.98	2.98	2.58	2.31	2.33	
21	0.69	2.80	2.21	9.27	8.96	8.99	9.28	3.92	2.94	2.57	2.30	2.32	
22	0.66	3.05	2.06	9.33	8.98	9.11	9.22	3.88	2.93	2.57	2.29	2.32	
23	0.78	3.21	1.92	9.39	9.00	9.21	9.15	3.82	2.90	2.55	2.28	2.31	
24	1.08	3.38	1.95	9.49	9.00	9.27	9.07	3.80	2.88	2.53	2.27	2.30	
25	1.05	3.52	2.07	9.57	9.00	9.30	8.97	3.73	2.88	2.51	2.26	2.30	
26	0.99	3.52	2.18	9.60	9.01	9.35	8.88	3.70	2.87	2.49	2.25	2.29	
27	0.92	3.37	2.03	9.59	9.03	9.38	8.78	3.68	2.86	2.44	2.26	2.29	
28	0.83	3.24	1.99	9.56	9.04	9.45	8.68	3.67	2.85	2.43	2.32	2.27	
29	0.76	3.09	2.11	9.51	9.05	10.08	8.53	3.63	2.85	2.44		2.24	
30	0.76	2.81	2.48	9.47	9.06	10.74	8.16	3.62	2.85	2.45		2.23	
31		2.52		9.42	9.06		7.66		2.81	2.45		2.22	
MEAN	0.68	2.01	1.72	7.90	8.99	9.01	9.95	4.47	3.13	2.61	2.32	2.31	
MAX	1.08	3.52	2.48	9.60	9.36	10.74	11.97	7.10	3.60	2.79	2.44	2.45	11.97
MIN	0.52	0.76	1.21	2.82	8.73	8.50	7.66	3.62	2.81	2.43	2.23	2.22	0.52

ANNUAL MAX MOMENTARY GAGE HEIGHT — 11.99 M (A.D), AT 6.00 HOURS, ON OCT 4, 1978

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

LEFT BANK ELEVATION — 12.24 M (A.D)

RIGHT BANK ELEVATION — 11.46 M (A.D), DRAINAGE AREA 11020 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	0.0	9.1	19.4	326.0	245.5	2055.0	120.0	35.0	18.8	12.6	11.5	
2	0.0	0.0	5.9	22.8	308.5	245.5	2510.0	102.0	34.6	18.2	12.6	11.5	
3	0.0	0.0	4.0	28.6	295.4	247.0	2877.5	88.2	34.6	18.0	12.4	10.9	
4	0.0	0.0	3.4	38.4	276.2	242.5	2947.5	79.5	33.6	17.8	12.3	10.8	
5	0.0	0.0	2.9	50.2	259.2	236.5	2720.0	72.5	33.2	17.4	11.8	10.6	
6	0.0	0.0	2.3	62.0	247.0	229.8	2317.5	66.6	33.0	17.2	11.7	10.5	
7	0.0	0.0	1.6	80.5	238.0	221.0	1897.5	60.6	32.6	16.8	11.4	10.2	
8	0.0	0.0	0.7	114.6	228.5	218.0	1386.0	55.4	31.0	16.8	11.1	9.9	
9	0.0	0.0	0.4	146.4	220.0	215.0	1168.0	53.2	30.0	16.8	10.8	9.4	
10	0.0	0.0	0.0	169.0	216.0	207.0	970.0	52.0	29.0	16.8	10.5	9.4	
11	0.0	0.0	0.0	189.8	210.0	201.2	837.5	51.4	26.2	16.8	10.0	9.9	
12	0.0	0.0	0.0	206.0	205.0	193.3	721.0	51.2	25.6	16.6	9.9	11.1	
13	0.0	4.3	0.0	217.0	208.0	187.7	637.0	50.8	24.8	16.4	9.4	12.7	
14	0.0	8.8	0.0	225.9	212.0	187.0	565.0	50.6	24.4	16.4	9.4	12.4	
15	0.0	7.8	0.1	236.5	214.0	187.0	515.0	49.2	23.6	16.2	10.8	11.8	
16	0.0	6.6	0.0	244.0	215.0	187.0	465.0	47.4	23.6	16.0	10.9	11.2	
17	0.0	9.1	0.0	252.3	218.0	188.4	424.5	46.2	24.0	15.2	10.8	10.6	
18	0.0	12.3	0.0	263.8	221.0	194.0	388.0	45.0	23.8	15.0	10.8	11.2	
19	0.0	13.0	2.5	279.4	225.9	204.0	360.0	43.4	23.2	14.7	10.6	10.9	
20	0.0	13.8	8.4	285.8	228.5	218.0	329.5	42.6	22.6	14.7	10.6	10.9	
21	0.0	19.0	9.1	295.4	229.8	233.7	298.6	41.4	21.8	14.5	10.5	10.8	
22	0.0	24.0	6.9	315.5	232.4	252.3	279.4	40.6	21.6	14.5	10.3	10.8	
23	0.0	27.2	5.2	336.5	235.0	276.2	261.5	39.4	21.0	14.2	10.2	10.6	
24	0.0	30.6	5.5	376.0	235.0	295.4	245.5	39.0	20.6	13.9	10.0	10.5	
25	0.0	33.4	7.0	408.0	235.0	305.0	231.1	37.6	20.6	13.6	9.9	10.5	
26	0.0	33.4	8.7	420.0	236.5	322.5	220.0	37.0	20.4	13.3	9.7	10.3	
27	0.0	30.4	6.4	416.0	239.5	333.0	210.0	36.6	20.2	12.6	9.9	10.3	
28	0.0	27.8	5.9	400.0	241.0	360.0	200.4	36.4	20.0	12.4	10.8	10.0	
29	0.0	24.8	7.6	384.0	242.5	673.0	189.1	35.6	20.0	12.6		9.6	
30	0.0	19.2	13.2	368.0	244.0	1134.0	166.0	35.4	20.0	12.7		9.4	
31		13.8		348.0	244.0		142.4		19.2	12.7		9.3	
TOTAL	0.0	359.3	116.8	7199.8	7386.9	8440.5	28535.5	1606.8	793.8	479.6	301.7	329.5	55550.2 CMSDAY
MEAN	0.0	11.6	3.9	232.3	238.3	281.3	920.5	53.6	25.6	15.5	10.8	10.6	152.2 CMS
MAX	0.0	33.4	13.2	420.0	326.0	1134.0	2947.5	120.0	35.0	18.8	12.6	12.7	2947.5 CMS
MIN	0.0	0.0	0.0	19.4	205.0	187.0	142.4	35.4	19.2	12.4	9.4	9.3	0.0 CMS
RUNOFF	0.00	31.04	10.09	622.06	638.23	729.26	2465.47	138.83	68.58	41.44	26.07	28.47	4799.53 MCM

MOMENTARY PEAK 2982.50 CMS, AT 11.99 M (A.D), AT 6.00 HOURS, ON OCT 4, 1978

RUNOFF YIELD 13.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 270.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 BUT PERIODIC CURVES ARE USED FOR FLOW COMPUTATION.

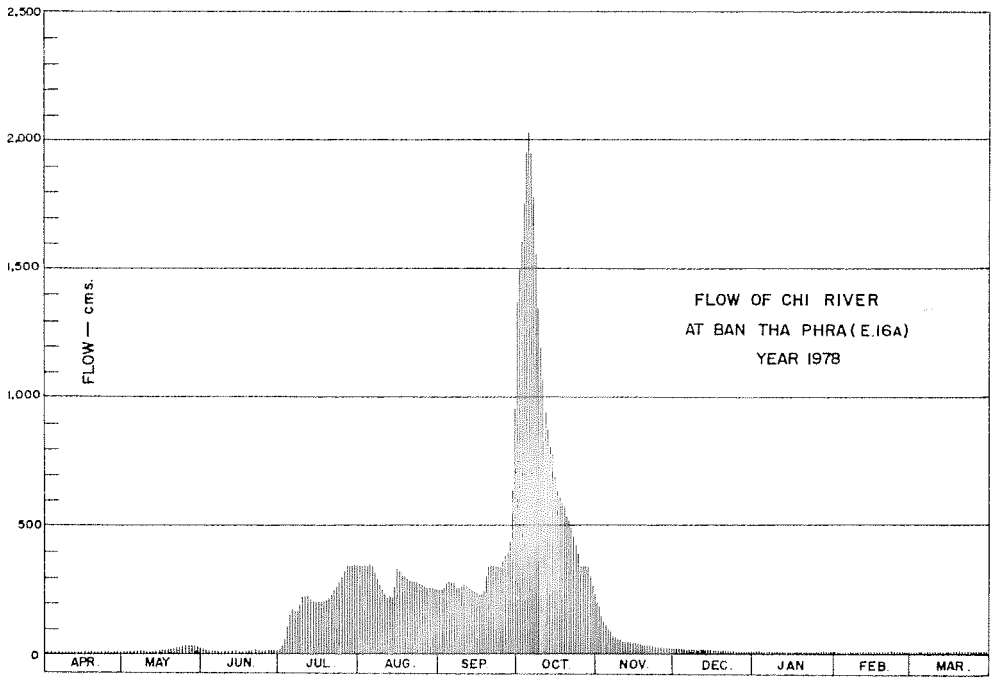
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +151.34 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	142.84	143.02	144.33	144.15	150.78	149.36	153.99	148.24	144.39	143.94	143.44	143.22	
2	142.87	142.99	144.16	144.73	150.77	149.42	154.43	147.62	144.36	143.93	143.43	143.26	
3	142.86	143.08	143.99	145.38	150.76	149.71	154.77	147.11	144.36	143.92	143.44	143.32	
4	142.82	143.14	143.84	146.50	150.74	149.85	155.13	146.72	144.33	143.90	143.45	143.36	
5	142.82	143.12	143.75	147.45	150.68	149.88	155.26	146.40	144.31	143.88	143.44	143.37	
6	142.81	143.13	143.73	147.89	150.51	149.81	155.12	146.14	144.28	143.84	143.41	143.33	
7	142.80	143.16	143.66	147.87	150.25	149.64	154.79	145.81	144.25	143.81	143.41	143.31	
8	142.78	143.15	143.60	147.83	149.91	149.43	154.37	145.53	144.24	143.78	143.41	143.28	
9	142.77	143.13	143.58	148.31	149.55	149.54	153.93	145.42	144.24	143.76	143.38	143.25	
10	142.77	143.15	143.51	148.77	149.20	149.67	153.61	145.33	144.23	143.77	143.36	143.22	
11	142.76	143.14	143.45	148.85	148.89	149.64	153.30	145.24	144.23	143.77	143.35	143.19	
12	142.76	143.12	143.40	148.77	148.69	149.53	153.03	145.19	144.22	143.77	143.33	143.19	
13	142.75	143.08	143.36	148.66	148.91	149.44	152.82	145.18	144.19	143.76	143.33	143.16	
14	142.75	143.10	143.33	148.58	148.85	149.32	152.65	145.16	144.15	143.75	143.35	143.18	
15	142.76	143.75	143.33	148.49	150.39	149.21	152.51	145.11	144.12	143.74	143.37	143.32	
16	142.77	144.01	143.38	148.44	150.41	149.07	152.37	145.03	144.09	143.72	143.36	143.38	
17	142.78	144.07	143.38	148.41	150.29	148.97	152.26	145.00	144.07	143.70	143.34	143.37	
18	142.77	144.08	143.52	148.45	150.16	149.19	152.16	144.95	144.06	143.69	143.31	143.34	
19	142.76	144.17	143.54	148.56	150.08	150.18	152.07	144.91	144.09	143.67	143.28	143.31	
20	142.76	144.25	143.53	148.69	150.00	150.69	151.96	144.80	144.11	143.66	143.27	143.29	
21	142.74	144.28	143.89	148.92	149.96	150.78	151.84	144.74	144.08	143.67	143.25	143.27	
22	142.73	144.39	144.09	149.19	149.90	150.93	151.72	144.70	144.05	143.68	143.24	143.25	
23	142.75	144.52	144.08	149.55	149.80	151.09	151.59	144.64	144.01	143.67	143.23	143.23	
24	142.96	144.60	143.99	149.88	149.72	151.18	151.44	144.60	143.98	143.66	143.19	143.21	
25	142.95	144.68	143.92	150.08	149.61	151.25	151.28	144.54	143.96	143.63	143.19	143.21	
26	142.99	144.75	143.91	150.29	149.53	151.30	151.11	144.50	143.94	143.61	143.18	143.22	
27	143.11	144.78	143.95	150.51	149.51	151.37	150.91	144.46	143.90	143.58	143.14	143.22	
28	143.08	144.72	143.99	150.64	149.56	151.58	150.61	144.45	143.92	143.55	143.17	143.22	
29	143.08	144.65	143.96	150.71	149.53	152.28	150.14	144.43	143.92	143.51		143.21	
30	143.05	144.54	143.93	150.75	149.46	153.06	149.59	144.42	143.94	143.47		143.19	
31		144.46		150.77	149.38	153.06	148.96		143.94	143.45		143.17	
MEAN	142.84	143.81	143.74	148.58	149.86	149.88	152.57	145.35	144.13	143.72	143.32	143.26	
MAX	143.11	144.78	144.33	150.77	150.78	152.28	155.26	148.24	144.39	143.94	143.45	143.38	155.26
MIN	142.73	142.99	143.38	144.15	148.69	149.06	148.96	144.42	143.90	143.45	143.14	143.16	142.73

ANNUAL MAX MOMENTARY GAGE HEIGHT 155.29 M (MSL), AT 12.00 HOURS, ON OCT 5, 1978
ZERO GAGE AT BOTTOM ELEVATION 142.94 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 13171 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.2	1.1	19.2	14.7	338.6	247.6	1367.4	187.5	20.7	10.3	3.4	2.1	
2	0.3	0.9	15.0	30.9	338.6	251.2	1578.7	156.5	20.0	10.1	3.3	2.3	
3	0.3	1.4	11.3	54.2	338.6	268.6	1749.4	131.0	20.0	9.9	3.4	2.6	
4	0.1	1.7	8.3	102.0	338.5	277.0	1944.8	111.9	19.2	9.5	3.5	2.8	
5	0.1	1.6	6.7	148.0	338.4	278.8	2017.6	97.5	18.7	9.1	3.4	2.8	
6	0.0	1.6	6.4	170.0	338.0	274.6	1939.2	85.8	18.0	8.3	3.1	2.6	
7	0.0	1.8	5.6	169.0	310.0	264.4	1759.8	71.4	17.2	7.7	3.1	2.5	
8	0.0	1.7	5.0	167.0	280.7	251.8	1549.6	60.2	17.0	7.2	3.1	2.4	
9	0.0	1.6	4.8	191.0	259.0	258.4	1339.8	55.8	17.0	6.9	2.9	2.2	
10	0.0	1.7	4.1	214.8	238.5	266.2	1192.6	52.2	16.7	7.0	2.8	2.1	
11	0.0	1.7	3.5	219.2	221.4	264.4	1051.0	48.6	16.7	7.0	2.7	1.9	
12	0.0	1.6	3.0	214.8	210.4	257.8	931.9	46.6	16.5	7.0	2.6	1.9	
13	0.0	1.4	2.8	208.8	222.5	252.4	843.4	46.2	15.7	6.9	2.6	1.8	
14	0.0	1.5	2.6	204.5	219.2	245.2	773.0	45.4	14.7	6.7	2.7	1.9	
15	0.0	6.7	2.6	200.0	324.9	239.0	717.0	43.4	14.0	6.6	2.8	2.6	
16	0.0	11.7	2.9	197.5	327.2	231.3	664.5	40.5	13.3	6.3	2.8	2.9	
17	0.0	12.9	2.9	196.0	314.0	225.8	626.4	39.5	12.9	6.0	2.7	2.8	
18	0.0	13.1	4.2	198.0	301.0	237.9	593.2	37.7	12.7	5.9	2.5	2.7	
19	0.0	15.2	4.4	203.5	293.4	303.0	564.7	36.3	13.3	5.7	2.4	2.5	
20	0.0	17.2	4.3	210.4	287.0	338.4	531.8	33.0	13.7	5.6	2.3	2.4	
21	0.0	18.0	9.3	223.1	284.2	338.6	499.4	31.2	13.1	5.7	2.2	2.3	
22	0.0	20.7	13.3	237.9	280.0	338.9	468.2	30.0	12.5	5.8	2.2	2.2	
23	0.0	24.6	13.1	259.0	274.0	339.3	436.8	28.2	11.7	5.7	2.1	2.1	
24	0.8	27.0	11.3	278.8	269.2	339.4	403.8	27.0	11.1	5.6	1.9	2.0	
25	0.7	29.4	9.9	293.4	262.6	339.6	339.7	25.2	10.7	5.3	1.9	2.0	
26	0.9	31.5	9.7	314.0	257.8	377.01	339.3	24.0	10.3	5.1	1.9	2.1	
27	1.5	32.4	10.5	338.0	256.6	389.6	338.9	22.8	9.5	4.8	1.7	2.1	
28	1.4	30.6	11.3	338.3	259.6	434.6	338.2	22.5	9.9	4.5	1.8	2.1	
29	1.4	28.5	10.7	338.4	257.8	633.2	299.0	21.9	9.9	4.1		2.0	
30	1.2	25.2	10.1	338.5	253.6	0.0	261.4	21.6	10.3	3.7		1.9	
31		22.8		338.6	248.8		225.3		10.3	3.5		1.8	
TOTAL	8.9	388.8	228.8	6612.3	8744.1	8764.0	27685.8	1681.4	447.3	203.5	73.8	70.4	54909.0 CMSDAY
MEAN	0.3	12.5	7.6	213.3	282.1	292.1	893.1	56.0	14.4	6.6	2.6	2.3	150.4 CMS
MAX	1.5	32.4	19.2	338.6	338.6	633.2	2017.6	187.5	20.7	10.3	3.5	2.9	2017.6 CMS
MIN	0.0	0.9	2.6	14.7	210.4	0.0	225.3	21.6	9.5	3.5	1.7	1.8	0.0 CMS
RUNOFF	0.77	33.59	19.77	571.30	755.49	757.21	2392.05	145.27	38.65	17.58	6.38	6.08	4744.14 MCM

MOMENTARY PEAK 2034.38 CMS, AT 155.29 M (MSL), AT 12.00 HOURS, ON OCT 5, 1978

RUNOFF YIELD 11.42 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 154.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 BECAUSE OF BACKWATER EFFECT, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +132.91 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

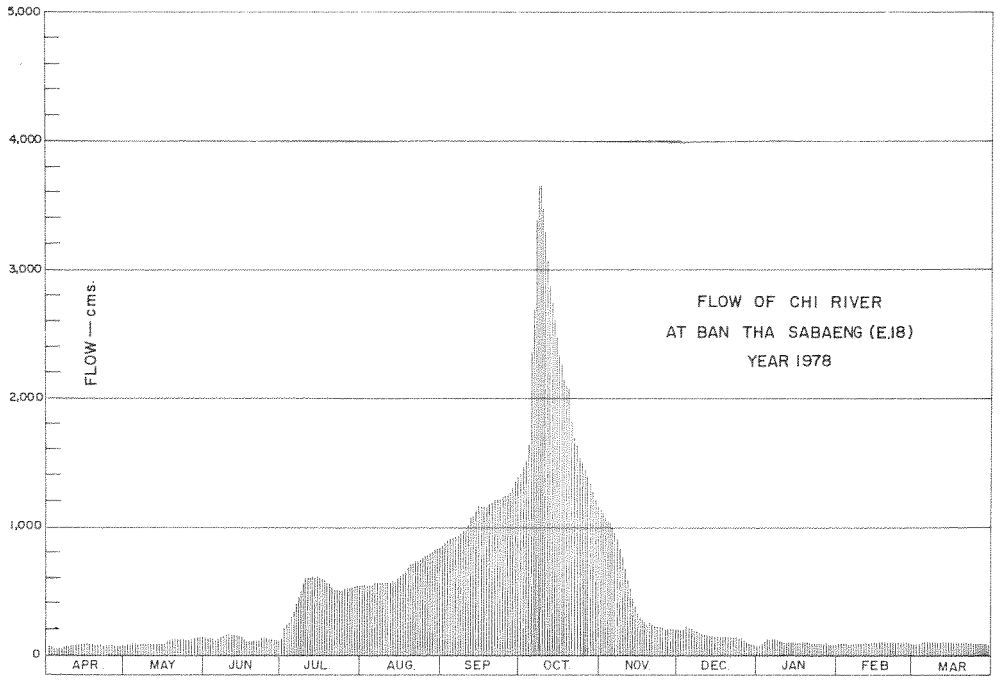
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	123.90	124.26	125.12	125.10	129.23	131.10	132.17	131.50	126.17	124.65	124.67	124.71	
2	123.80	124.28	125.14	126.07	129.23	131.17	132.22	131.44	126.17	124.70	124.69	124.53	
3	123.73	124.33	125.17	126.34	129.24	131.26	132.28	131.37	126.17	124.79	124.69	124.65	
4	123.70	124.34	125.10	126.68	129.26	131.29	132.39	131.31	126.21	124.89	124.70	124.75	
5	123.70	124.36	124.82	127.05	129.31	131.31	132.93	131.22	126.18	125.04	124.69	124.80	
6	123.83	124.36	124.88	127.54	129.36	131.32	133.09	131.16	126.11	125.12	124.69	124.82	
7	123.93	124.34	125.10	128.27	129.38	131.35	133.43	131.06	126.03	125.11	124.70	124.84	
8	124.08	124.34	125.22	128.84	129.38	131.41	133.51	130.91	125.91	125.05	124.71	124.84	
9	124.14	124.35	125.27	129.29	129.39	131.45	133.51	130.70	125.78	124.98	124.73	124.84	
10	124.20	124.37	125.30	129.66	129.38	131.50	133.44	130.42	125.67	124.90	124.74	124.83	
11	124.25	124.38	125.34	129.76	129.37	131.55	133.33	129.98	125.61	124.81	124.75	124.83	
12	124.31	124.36	125.38	129.77	129.42	131.70	133.21	129.39	125.54	124.77	124.77	124.83	
13	124.34	124.36	125.40	129.79	129.52	131.71	133.11	128.70	125.50	124.79	124.80	124.85	
14	124.38	124.39	125.40	129.79	129.63	131.78	133.01	127.94	125.45	124.86	124.83	124.85	
15	124.42	124.43	125.33	129.79	129.74	131.81	132.89	127.44	125.40	124.93	124.83	124.83	
16	124.42	124.52	125.19	129.74	129.88	131.82	132.79	127.12	125.36	124.94	124.82	124.80	
17	124.39	124.66	125.00	129.67	130.01	131.83	132.70	126.86	125.34	124.91	124.86	124.80	
18	124.35	124.78	124.88	129.52	130.22	131.83	132.61	126.72	125.34	124.86	124.89	124.80	
19	124.33	124.85	124.85	129.35	130.40	131.86	132.53	126.60	125.33	124.83	124.87	124.79	
20	124.26	124.89	124.81	129.18	130.50	131.87	132.46	126.52	125.32	124.80	124.87	124.77	
21	124.22	124.91	124.82	129.05	130.59	131.90	132.36	126.42	125.30	124.75	124.87	124.77	
22	124.20	124.92	124.82	128.99	130.65	131.91	132.15	126.34	125.29	124.74	124.86	124.76	
23	124.21	124.92	125.03	128.98	130.68	131.91	132.09	126.28	125.26	124.74	124.86	124.74	
24	124.22	124.93	125.10	128.98	130.75	131.93	132.03	126.22	125.24	124.74	124.85	124.74	
25	124.23	124.94	125.09	129.02	130.83	131.94	131.97	126.18	125.28	124.75	124.86	124.70	
26	124.23	124.95	125.06	129.05	130.91	131.97	131.90	126.13	125.08	124.72	124.87	124.69	
27	124.22	124.99	125.00	129.10	130.94	131.99	131.83	126.13	124.88	124.70	124.86	124.69	
28	124.22	125.05	124.97	129.13	130.98	132.03	131.77	126.11	124.75	124.68	124.83	124.69	
29	124.23	125.07	124.96	129.17	131.01	132.10	131.68	126.08	124.66	124.66		124.69	
30	124.25	125.08	124.96	129.20	131.03	132.14	131.61	126.11	124.65	124.65		124.69	
31		125.11		129.21	131.04		131.55		124.65	124.66		124.70	
MEAN	124.16	124.64	125.08	128.74	130.04	131.69	132.53	128.35	125.47	124.82	124.79	124.76	
MAX	124.42	125.11	125.40	129.79	131.04	132.14	133.51	131.50	126.21	125.12	124.89	124.85	133.51
MIN	123.70	124.26	124.81	125.10	129.23	131.10	131.55	126.08	124.65	124.65	124.67	124.53	123.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 133.52 M (MSL), AT 24.00 HOURS, ON OCT 8, 1978

ZERO GAGE AT BOTTOM ELEVATION 122.24 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 41594 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	42.0	64.2	128.6	127.0	533.6	842.0	1413.6	1146.0	218.3	91.5	92.9	95.8	
2	36.0	65.6	130.2	209.3	533.6	864.4	1458.0	1110.0	218.3	95.0	94.3	83.1	
3	32.5	69.1	132.6	233.6	534.8	895.6	1512.0	1069.2	218.3	102.2	94.3	91.5	
4	31.0	69.8	127.0	264.2	537.2	906.4	1623.6	1035.6	221.9	110.2	95.0	99.0	
5	31.0	71.2	104.6	301.0	543.2	913.7	2313.7	990.0	219.2	122.2	94.3	103.0	
6	37.8	71.2	109.4	350.0	549.2	917.4	2592.0	961.6	212.9	128.6	94.3	104.6	
7	43.8	69.8	127.0	425.7	551.6	928.5	3382.9	918.0	205.7	127.8	95.0	106.2	
8	52.8	69.8	136.6	488.4	551.6	951.3	3631.0	858.0	194.9	123.0	95.8	106.2	
9	56.4	70.5	140.6	540.8	552.8	968.5	3631.0	789.0	183.2	117.4	97.4	106.2	
10	60.0	71.9	143.0	585.2	551.6	990.0	3468.0	719.6	173.3	111.0	98.2	105.4	
11	63.5	72.6	146.2	597.2	550.4	1012.0	3240.0	637.8	167.9	103.8	99.0	105.4	
12	67.7	71.2	149.4	598.4	556.4	1084.0	3018.0	552.8	162.2	100.6	100.6	105.4	
13	69.8	71.2	151.0	600.8	568.4	1089.6	2841.6	473.0	159.0	102.2	103.0	107.0	
14	72.6	73.3	151.0	600.8	581.6	1128.8	2681.8	390.0	155.0	107.8	105.4	107.0	
15	75.4	76.1	145.4	600.8	594.8	1146.5	2506.0	340.0	151.0	113.4	105.4	105.4	
16	75.4	82.4	134.2	594.8	612.4	1153.0	2367.2	308.0	147.8	114.2	104.6	103.0	
17	73.3	92.2	119.0	586.4	629.3	1159.5	2252.0	282.0	146.2	111.8	107.8	103.0	
18	70.5	101.4	109.4	568.4	658.0	1159.5	2149.4	268.0	146.2	107.8	110.2	103.0	
19	69.1	107.0	107.0	548.0	685.0	1179.0	2059.6	257.0	145.4	105.4	108.6	102.2	
20	64.2	110.2	103.8	527.6	702.0	1185.5	1983.6	249.8	144.6	103.0	108.6	100.6	
21	61.4	111.8	104.6	512.0	718.2	1205.0	1877.6	240.8	143.0	99.0	108.6	100.6	
22	60.0	112.6	104.6	504.9	729.5	1212.1	1667.0	233.6	142.2	98.2	107.8	99.8	
23	60.7	112.6	121.4	503.8	735.2	1212.1	1610.8	228.2	139.8	98.2	107.8	98.2	
24	61.4	113.4	127.0	503.8	749.5	1226.3	1555.6	222.8	138.2	98.2	107.0	98.2	
25	62.1	114.2	126.2	508.4	767.5	1233.4	1502.8	219.2	141.4	99.0	107.8	95.0	
26	62.1	115.0	123.8	512.0	787.8	1254.7	1444.0	214.7	125.4	96.6	108.6	94.3	
27	61.4	118.2	119.0	518.0	796.2	1268.9	1385.2	214.7	109.4	95.0	107.8	94.3	
28	61.4	123.0	116.6	521.6	807.4	1298.8	1337.8	212.9	99.0	93.6	105.4	94.3	
29	62.1	124.6	1 5.8	526.4	815.9	1352.0	1272.0	210.2	92.2	92.2		94.3	
30	63.5	125.4	115.8	530.0	821.7	1387.2	1223.0	212.9	91.5	91.5		94.3	
31		127.8		531.2	824.6		1181.0		91.5	92.2		95.0	
TOTAL	1740.9	2849.3	3770.8	15020.5	20131.0	33125.7	66181.7	15565.4	4904.9	3252.6	2865.5	3101.3	172509.5 CMSDAY
MEAN	58.0	91.9	125.7	484.5	649.4	1104.2	2134.9	518.8	158.2	104.9	102.3	100.0	472.6 CMS
MAX	75.4	127.8	151.0	600.8	824.6	1387.2	3631.0	1146.0	221.9	128.6	110.2	107.0	3631.0 CMS
MIN	31.0	64.2	103.8	127.0	533.6	842.0	1181.0	210.2	91.5	91.5	92.9	83.1	31.0 CMS
RUNOFF	150.41	246.18	325.80	1297.77	1739.32	2862.06	5718.10	1344.85	423.78	281.02	247.58	267.95	14904.81 MCM

MOMENTARY PEAK 3662.00 CMS, AT 133.52 M (MSL), AT 24.00 HOURS, ON OCT 8, 1978

RUNOFF YIELD 11.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 88.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

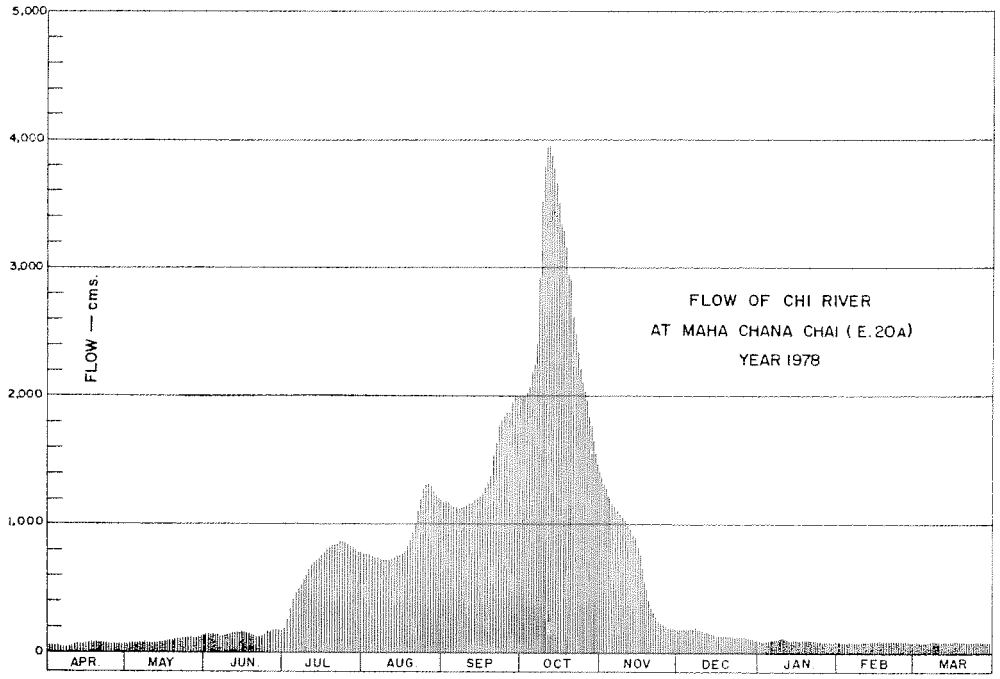
CHI RIVER AT MAHA CHANA CHAI, YASOTHON (E.20A)

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.S.
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	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 BECAUSE OF BACKWATER EFFECT, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +124.26 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 572 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	115.13	115.41	116.20	116.59	121.06	122.03	122.89	122.30	117.10	115.79	115.68	115.83	
2	115.16	115.42	116.23	116.93	121.03	122.04	122.89	122.22	117.10	115.76	115.68	115.80	
3	115.14	115.46	116.24	117.56	120.99	122.02	122.91	122.15	117.10	115.75	115.70	115.73	
4	115.10	115.48	116.26	118.17	120.96	122.00	122.95	122.08	117.10	115.79	115.71	115.65	
5	115.04	115.51	116.26	118.61	120.92	121.98	123.05	122.01	117.10	115.84	115.71	115.66	
6	115.01	115.55	116.23	118.91	120.89	121.96	123.10	121.98	117.10	115.91	115.71	115.71	
7	115.00	115.55	116.12	119.14	120.85	121.96	123.24	121.93	117.08	116.00	115.71	115.78	
8	115.04	115.54	116.11	119.43	120.82	121.95	123.72	121.87	117.03	116.05	115.71	115.78	
9	115.14	115.53	116.20	119.72	120.80	121.95	124.16	121.81	116.94	116.07	115.71	115.80	
10	115.23	115.54	116.29	120.00	120.79	122.00	124.38	121.76	116.86	116.04	115.71	115.80	
11	115.29	115.55	116.36	120.25	120.78	122.02	124.48	121.70	116.77	116.00	115.73	115.80	
12	115.34	115.57	116.40	120.45	120.83	122.03	124.49	121.63	116.67	115.95	115.75	115.80	
13	115.42	115.58	116.42	120.64	120.91	122.05	124.43	121.55	116.59	115.88	115.75	115.80	
14	115.46	115.59	116.45	120.78	120.95	122.07	124.35	121.45	116.54	115.83	115.76	115.80	
15	115.53	115.60	116.47	120.90	121.02	122.10	124.26	121.32	116.47	115.83	115.79	115.82	
16	115.55	115.65	116.47	121.02	121.08	122.14	124.14	121.13	116.44	115.86	115.80	115.84	
17	115.57	115.70	116.42	121.10	121.17	122.19	124.00	120.80	116.39	115.90	115.80	115.84	
18	115.57	115.74	116.33	121.17	121.27	122.25	123.88	120.36	116.36	115.93	115.80	115.80	
19	115.56	115.80	116.23	121.23	121.39	122.30	123.74	119.80	116.35	115.92	115.83	115.78	
20	115.54	115.87	116.15	121.28	121.53	122.37	123.60	119.19	116.32	115.89	115.84	115.78	
21	115.51	115.92	116.08	121.33	121.71	122.53	123.45	118.64	116.31	115.86	115.84	115.78	
22	115.47	115.98	116.14	121.37	121.90	122.65	123.32	118.20	116.30	115.83	115.84	115.77	
23	115.43	116.01	116.14	121.39	122.06	122.71	123.18	117.85	116.30	115.80	115.84	115.76	
24	115.42	116.03	116.25	121.38	122.17	122.75	123.07	117.60	116.28	115.78	115.83	115.74	
25	115.42	116.07	116.43	121.36	122.22	122.77	122.97	117.46	116.26	115.77	115.83	115.72	
26	115.42	116.07	116.58	121.31	122.23	122.78	122.87	117.35	116.25	115.77	115.83	115.72	
27	115.43	116.08	116.66	121.26	122.21	122.84	122.77	117.27	116.24	115.76	115.83	115.70	
28	115.43	116.10	116.68	121.21	122.17	122.88	122.68	117.20	116.14	115.75	115.83	115.69	
29	115.43	116.12	116.64	121.16	122.12	122.89	122.57	117.15	116.00	115.73		115.68	
30	115.41	116.14	116.59	121.12	122.08	122.89	122.47	117.12	115.89	115.71		115.68	
31		116.17		121.09	122.05		122.38		115.82	115.70		115.68	
MEAN	115.34	115.75	116.33	120.25	121.39	122.30	123.43	120.16	116.55	115.85	115.77	115.76	
MAX	115.57	116.17	116.68	121.39	122.23	122.89	124.49	122.30	117.10	116.07	115.84	115.84	124.49
MIN	115.00	115.41	116.08	116.59	120.78	121.95	122.38	117.12	115.82	115.70	115.68	115.65	115.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 124.50 M (MSL), AT 6.00 HOURS, ON OCT 12, 1978
ZERO GAGE AT BOTTOM ELEVATION 112.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 47818 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	56.1	75.7	141.0	180.0	783.2	1179.5	2009.0	1380.0	189.0	88.4	82.0	91.1	
2	58.2	76.4	144.0	217.3	776.6	1186.0	2009.0	1316.0	189.0	86.6	82.0	89.0	
3	56.8	79.2	145.0	289.2	768.1	1173.0	2031.0	1262.5	189.0	86.0	83.0	84.8	
4	54.0	80.6	147.0	366.1	762.4	1160.0	2075.0	1212.0	189.0	88.4	83.6	80.5	
5	49.8	82.8	147.0	423.3	754.8	1148.0	2185.0	1166.5	189.0	91.8	83.6	81.0	
6	47.7	86.0	144.0	462.3	749.3	1136.0	2240.0	1148.0	189.0	96.7	83.6	83.6	
7	47.0	86.0	133.0	492.2	742.5	1136.0	2394.0	1118.0	187.2	103.0	83.6	87.8	
8	49.8	85.2	132.0	529.9	737.4	1130.0	2946.0	1083.5	182.7	106.5	83.6	87.8	
9	56.8	84.4	141.0	567.6	734.0	1130.0	3518.0	1050.5	174.6	107.9	83.6	89.0	
10	63.1	85.2	150.0	606.0	732.3	1160.0	3804.0	1025.0	167.4	105.8	83.6	89.0	
11	67.3	86.0	157.0	642.5	730.6	1173.0	3934.0	995.0	159.6	103.0	84.8	89.0	
12	70.8	87.6	161.0	674.5	739.1	1179.5	3947.0	963.5	151.6	99.5	86.0	89.0	
13	76.4	88.4	163.0	706.9	752.9	1192.5	3869.0	930.0	145.2	94.6	86.0	89.0	
14	79.2	89.2	166.0	730.6	760.5	1205.5	3765.0	893.0	141.2	91.1	86.6	89.0	
15	84.4	90.0	168.0	751.0	774.4	1225.0	3648.0	836.8	135.9	91.1	88.4	90.4	
16	86.0	94.0	168.0	774.4	787.6	1255.0	3492.0	756.0	133.8	93.2	89.0	91.8	
17	87.6	98.0	163.0	792.0	808.8	1292.5	3310.0	649.0	130.3	96.0	89.0	91.8	
18	87.6	101.2	154.0	808.8	835.6	1340.0	3154.0	552.2	128.2	98.1	89.0	89.0	
19	86.8	106.0	144.0	824.4	872.8	1380.0	2972.0	471.0	127.5	97.4	91.1	87.8	
20	85.2	111.6	136.0	838.4	922.0	1443.0	2800.0	397.9	125.4	95.3	91.8	87.8	
21	82.8	115.6	129.2	853.6	1000.0	1613.0	2625.0	338.0	124.7	93.2	91.8	87.8	
22	79.9	120.4	135.0	866.4	1100.0	1745.0	2482.0	294.0	124.0	91.1	91.8	87.2	
23	77.1	122.9	135.0	872.8	1199.0	1811.0	2328.0	259.0	124.0	89.0	91.8	86.6	
24	76.4	124.7	146.0	869.6	1277.5	1855.0	2207.0	234.0	122.6	87.8	91.1	85.4	
25	76.4	128.3	164.0	863.2	1316.0	1877.0	2097.0	221.4	121.2	87.2	91.1	84.2	
26	76.4	128.3	179.0	847.2	1324.0	1888.0	1987.0	211.5	120.5	87.2	91.1	84.2	
27	77.1	129.2	187.6	832.8	1308.0	1954.0	1877.0	204.3	119.8	86.6	91.1	83.0	
28	77.1	131.0	189.8	818.8	1277.5	1998.0	1778.0	198.0	112.8	86.0	91.1	82.5	
29	77.1	133.0	185.4	806.4	1240.0	2009.0	1657.0	193.5	103.0	84.8		82.0	
30	75.7	135.0	180.0	796.8	1212.0	2009.0	1547.0	190.8	95.3	83.6		82.0	
31		138.0		789.8	1192.5		1452.0		90.4	83.0		82.0	
TOTAL	2126.6	3179.9	4635.0	20894.7	28971.4	42983.5	82139.0	21550.9	4482.9	2879.9	2444.8	2685.1	218973.5 CMSDAY
MEAN	70.9	102.6	154.5	674.0	934.6	1432.8	2649.6	718.4	144.6	92.9	87.3	86.6	599.9 CMS
MAX	87.6	138.0	189.8	872.8	1324.0	2009.0	3947.0	1380.0	189.0	107.9	91.8	91.8	3947.0 CMS
MIN	47.0	75.7	129.2	180.0	730.6	1130.0	1452.0	190.8	90.4	83.0	82.0	80.5	47.0 CMS
RUNOFF	183.74	274.74	400.46	1805.30	2503.13	3713.77	7096.81	1862.00	387.32	248.82	211.23	231.99	18919.31 MCM

MOMENTARY PEAK 3960.00 CMS, AT 124.50 M (MSL), AT 6.00 HOURS, ON OCT 12, 1978

RUNOFF YIELD 12.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

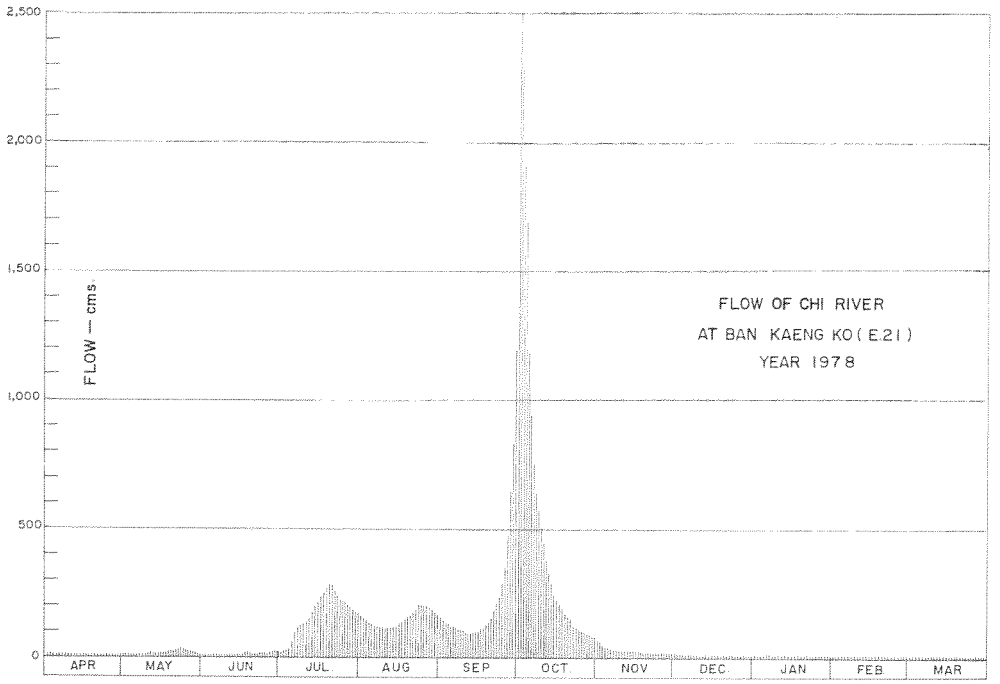
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +8.73 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 417 DISCHARGE MEASUREMENTS MADE DURING 1968-1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.15	1.31	1.56	1.83	6.97	6.72	10.03	2.90	1.70	1.52	1.34	1.27	
2	1.04	1.29	1.56	1.89	6.80	6.56	10.36	2.65	1.68	1.51	1.32	1.26	
3	1.14	1.27	1.54	1.98	6.59	6.38	10.15	2.48	1.66	1.50	1.32	1.26	
4	1.14	1.25	1.50	2.01	6.37	6.18	9.86	2.36	1.65	1.51	1.32	1.26	
5	1.14	1.25	1.47	2.42	6.12	6.00	9.63	2.28	1.64	1.51	1.30	1.26	
6	1.14	1.26	1.43	3.69	5.93	5.80	9.45	2.22	1.64	1.50	1.30	1.26	
7	1.14	1.25	1.41	4.96	5.81	5.58	9.30	2.16	1.63	1.48	1.30	1.28	
8	1.14	1.25	1.40	5.64	5.70	5.31	9.17	2.11	1.61	1.46	1.31	1.37	
9	1.14	1.26	1.39	6.02	5.60	5.03	9.07	2.09	1.59	1.46	1.30	1.39	
10	1.13	1.49	1.39	6.15	5.48	4.72	8.96	2.09	1.58	1.47	1.30	1.36	
11	1.13	1.77	1.41	6.30	5.41	4.42	8.82	2.08	1.58	1.46	1.30	1.33	
12	1.14	1.72	1.42	6.61	5.42	4.40	8.65	2.06	1.56	1.46	1.30	1.31	
13	1.17	1.61	1.42	6.98	5.52	4.52	8.44	2.04	1.57	1.46	1.30	1.30	
14	1.17	1.58	1.40	7.33	5.67	4.64	8.23	2.00	1.59	1.45	1.29	1.31	
15	1.17	1.72	1.37	7.61	5.76	4.78	8.00	1.99	1.63	1.45	1.28	1.31	
16	1.17	1.80	1.39	7.81	6.05	5.09	7.79	1.98	1.59	1.45	1.27	1.30	
17	1.17	1.72	1.65	7.96	6.33	5.42	7.57	1.96	1.58	1.44	1.26	1.29	
18	1.23	1.78	1.74	8.08	6.49	5.68	7.36	1.93	1.56	1.44	1.27	1.28	
19	1.39	1.92	1.67	8.16	6.65	6.02	7.11	1.91	1.55	1.42	1.30	1.28	
20	1.38	1.97	1.59	8.27	6.83	6.41	6.90	1.87	1.53	1.41	1.30	1.28	
21	1.35	1.99	1.58	8.24	6.99	6.83	6.80	1.84	1.51	1.38	1.29	1.31	
22	1.33	2.07	1.60	8.15	7.24	7.28	6.15	1.81	1.52	1.35	1.27	1.31	
23	1.32	2.16	1.66	7.99	7.42	7.64	5.81	1.79	1.52	1.33	1.25	1.30	
24	1.31	2.11	1.68	7.86	7.59	8.00	5.54	1.78	1.52	1.33	1.25	1.29	
25	1.27	1.96	1.63	7.77	7.56	8.27	5.28	1.77	1.52	1.34	1.24	1.28	
26	1.26	1.94	1.59	7.68	7.54	8.55	4.98	1.75	1.54	1.34	1.24	1.28	
27	1.27	1.92	1.70	7.58	7.51	8.90	4.62	1.74	1.55	1.34	1.25	1.29	
28	1.29	1.81	1.90	7.47	7.42	9.18	4.27	1.72	1.54	1.34	1.27	1.29	
29	1.30	1.70	1.93	7.34	7.31	9.37	3.91	1.72	1.54	1.34		1.29	
30	1.30	1.62	1.90	7.22	7.16	9.60	3.57	1.72	1.54	1.34		1.29	
31		1.57		7.11	6.94		3.23		1.53	1.34		1.29	
MEAN	1.21	1.66	1.56	6.33	6.52	6.44	7.39	2.03	1.58	1.42	1.29	1.30	
MAX	1.39	2.16	1.93	8.27	7.59	9.60	10.36	2.90	1.70	1.52	1.34	1.39	10.36
MIN	1.04	1.25	1.37	1.83	5.41	4.40	3.23	1.72	1.51	1.33	1.24	1.26	1.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.43 M (A.D), AT 12.00 HOURS, ON OCT 2, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	1.7	8.6	18.3	163.5	151.0	2028.3	64.5	13.5	7.2	2.5	1.1	
2	0.0	1.4	8.6	20.6	155.0	144.4	2693.8	53.2	12.8	6.8	2.0	1.0	
3	0.0	1.1	7.9	24.2	145.6	137.3	2269.5	45.6	12.1	6.5	2.0	1.0	
4	0.0	0.9	6.5	25.4	137.0	130.8	1688.2	40.2	11.7	6.8	2.0	1.0	
5	0.0	0.9	5.7	42.9	128.9	125.0	1244.0	36.6	11.4	6.8	1.5	1.0	
6	0.0	1.0	4.7	82.1	123.6	120.0	940.0	33.9	11.4	6.5	1.5	1.0	
7	0.0	0.9	4.2	101.4	120.3	114.6	746.0	31.4	11.0	6.0	1.5	1.2	
8	0.0	0.9	4.0	116.2	118.0	108.7	634.1	29.4	10.3	5.5	1.7	3.2	
9	0.0	1.0	3.7	125.6	115.0	102.6	564.4	28.6	9.6	5.5	1.5	3.7	
10	0.0	6.2	3.7	129.9	112.4	97.4	499.2	28.6	9.3	5.7	1.5	3.0	
11	0.0	16.1	4.2	134.7	110.9	92.4	432.8	28.2	9.3	5.5	1.5	2.2	
12	0.0	14.2	4.5	146.4	111.1	92.0	373.0	27.4	8.6	5.5	1.5	1.7	
13	0.1	10.3	4.5	164.0	113.3	94.3	316.6	26.6	8.9	5.5	1.5	1.5	
14	0.1	9.3	4.0	184.8	117.1	96.1	273.7	25.0	9.6	5.2	1.4	1.7	
15	0.1	14.2	3.2	203.7	119.2	98.6	239.0	24.6	11.0	5.2	1.2	1.7	
16	0.1	17.2	3.7	219.2	126.6	103.9	217.5	24.2	9.6	5.2	1.1	1.5	
17	0.1	14.2	11.7	231.7	135.7	111.1	200.9	23.4	9.3	5.0	1.0	1.4	
18	0.6	16.5	15.0	248.6	141.6	117.4	186.6	22.2	8.6	5.0	1.1	1.2	
19	3.7	21.8	12.4	261.6	148.0	125.6	171.6	21.4	8.2	4.5	1.5	1.2	
20	3.5	23.8	9.6	281.3	156.5	138.4	160.0	19.9	7.5	4.2	1.5	1.2	
21	2.7	24.6	9.3	275.6	164.5	156.5	155.0	18.7	6.8	3.5	1.4	1.7	
22	2.2	27.8	10.0	260.0	179.4	181.8	129.9	17.6	7.2	2.7	1.1	1.7	
23	2.0	31.4	12.1	234.2	190.4	205.5	120.3	16.8	7.2	2.2	0.9	1.5	
24	1.7	29.4	12.8	223.3	202.3	235.0	113.7	16.5	7.2	2.2	0.9	1.4	
25	1.1	23.4	11.0	215.8	200.2	281.3	108.1	16.1	7.2	2.5	0.7	1.2	
26	1.0	22.6	9.6	208.6	198.8	344.5	101.7	15.4	7.9	2.5	0.7	1.2	
27	1.1	21.8	13.5	201.6	196.7	468.0	95.8	15.0	8.2	2.5	0.9	1.4	
28	1.4	17.6	21.0	193.9	190.4	641.4	90.4	14.2	7.9	2.5	1.1	1.4	
29	1.5	13.5	22.2	185.4	183.6	831.4	85.1	14.2	7.9	2.5		1.4	
30	1.5	10.7	21.0	178.2	174.6	1186.0	80.4	14.2	7.9	2.5		1.4	
31		8.9		171.6	162.0		75.7		7.5	2.5		1.4	
TOTAL	24.5	405.3	272.9	5110.8	4642.2	6833.3	17031.3	793.6	286.6	142.2	38.7	48.2	35629.5 CMSDAY
MEAN	0.8	13.1	9.1	164.9	149.7	227.8	549.4	26.5	9.2	4.6	1.4	1.6	97.6 CMS
MAX	3.7	31.4	22.2	281.3	202.3	1186.0	2693.8	64.5	13.5	7.2	2.5	3.7	2693.8 CMS
MIN	0.0	0.9	3.2	18.3	110.9	92.0	75.7	14.2	6.8	2.2	0.7	1.0	0.9 CMS
RUNOFF	2.12	35.02	23.58	441.57	401.09	590.40	1471.50	68.57	24.76	12.29	3.34	4.16	3078.39 MCM

MOMENTARY PEAK 2836.20 CMS, AT 10.43 M (A.D), AT 12.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 10.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 318.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

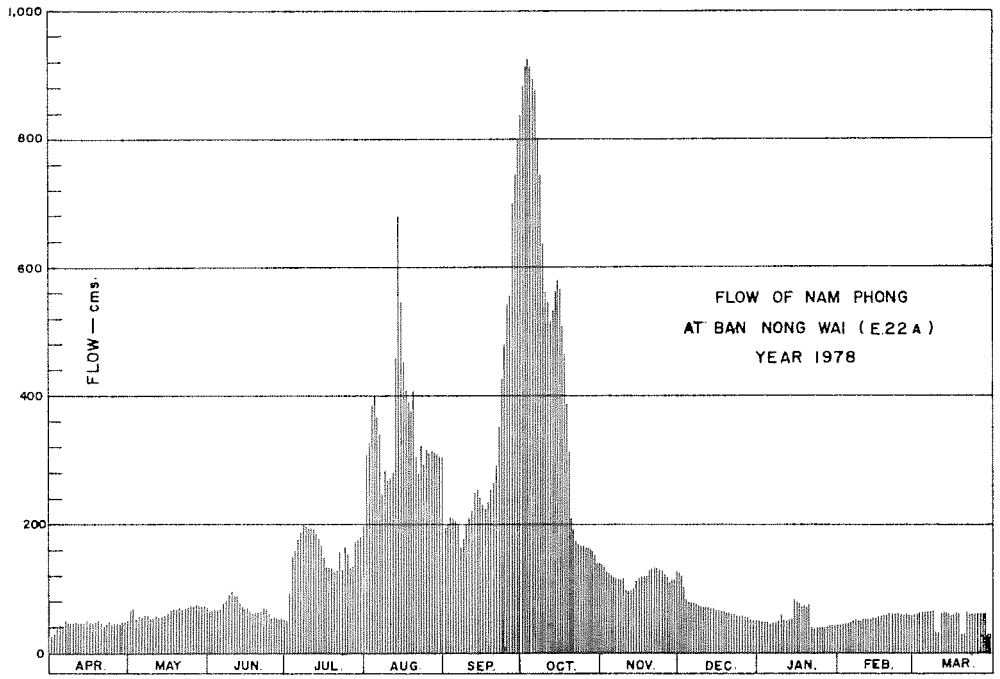
NAM PHONG AT BAN NONG WAI, KHON KAEN (E.22A)

LOCATION	LAT. 16°-43'-29" N., LONG. 102°-48'-21" E., ON LEFT BANK ABOUT 500 METERS DOWNSTREAM FROM THE BRIDGE OF KHON KAEN-UDON THANI HIGHWAY, AMPHOE NAM PHONG, KHON KAEN.
DRAINAGE AREA	13,183 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+150.92 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
LOCATION	NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+161.766 M. (M.S.L.)
GAGE READING FREQUENCY	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	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 +163.21 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 93 DISCHARGE MEASUREMENTS MADE DURING 1972-1976. FLOW REGULATED BY UBONRAT DAM AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	154.15	155.40	155.41	154.93	159.91	158.43	167.20	157.19	156.91	154.90	154.69	155.17	
2	154.36	155.40	155.35	155.53	160.68	158.62	167.61	156.97	156.65	154.89	154.71	155.20	
3	154.60	155.03	155.40	157.24	161.20	158.80	167.71	156.90	155.94	154.86	154.74	155.26	
4	154.75	155.11	155.41	157.62	161.47	158.78	167.61	156.79	155.79	154.84	154.81	155.34	
5	154.75	155.12	155.46	157.75	161.61	158.72	167.43	156.75	155.71	154.81	154.88	155.33	
6	154.95	155.10	155.57	158.08	161.02	158.53	167.11	156.72	155.69	154.81	154.95	155.37	
7	154.86	155.18	155.83	158.33	160.72	157.80	166.40	156.67	155.65	154.79	154.97	155.38	
8	154.81	155.17	155.89	158.60	159.45	158.01	165.51	156.69	155.61	154.87	154.94	155.40	
9	154.89	155.04	156.05	158.50	159.98	158.56	164.61	156.65	155.59	155.17	154.94	154.38	
10	154.89	155.03	156.21	158.47	159.78	158.75	163.99	156.21	155.57	154.96	154.98	154.34	
11	154.90	155.14	156.01	158.43	159.88	159.03	163.51	156.21	155.54	154.90	154.99	155.30	
12	154.87	155.14	155.97	158.46	160.00	159.47	163.15	156.23	155.52	154.96	155.00	155.31	
13	154.87	155.13	155.71	158.28	163.31	159.58	163.41	156.28	155.50	154.94	155.00	155.28	
14	154.92	155.24	155.57	158.07	165.11	159.48	163.78	156.58	155.48	155.90	155.02	155.27	
15	154.89	155.20	155.44	157.85	163.52	159.28	163.95	156.69	155.42	155.73	155.03	155.17	
16	154.79	155.32	155.51	157.46	162.34	159.03	163.67	156.74	155.39	155.75	155.07	155.20	
17	154.83	155.46	155.46	157.12	161.75	159.11	162.60	156.75	155.38	155.58	155.13	155.25	
18	154.86	155.45	155.29	157.11	161.46	159.35	161.45	156.77	155.36	155.60	155.17	155.25	
19	154.93	155.45	155.25	157.03	161.29	159.58	160.40	157.01	155.33	155.54	155.16	154.26	
20	154.85	155.56	155.41	156.93	161.74	159.73	158.75	157.02	155.29	155.64	155.15	154.25	
21	154.64	155.50	155.39	157.01	160.19	160.09	158.14	157.12	155.25	154.60	155.30	155.26	
22	154.75	155.49	155.46	157.68	159.92	161.00	157.98	157.14	155.22	154.56	155.25	155.24	
23	154.88	155.51	155.53	157.03	160.55	162.03	157.87	157.01	155.19	154.60	155.23	155.24	
24	154.76	155.55	155.47	157.82	160.12	162.76	157.84	156.96	155.17	154.62	155.21	155.27	
25	154.76	155.59	155.14	157.62	160.46	163.72	157.83	156.84	155.12	154.59	155.19	155.27	
26	154.83	155.55	155.08	157.10	160.39	163.65	157.82	156.67	155.10	154.57	155.20	155.27	
27	154.76	155.62	155.11	157.14	160.46	165.30	157.79	156.56	155.07	154.64	155.22	155.29	
28	154.91	155.59	155.01	158.00	160.41	165.41	157.66	156.59	155.06	154.67	155.21	155.28	
29	154.91	155.56	155.07	158.09	160.35	166.18	157.46	156.68	155.00	154.71		154.27	
30	154.89	155.61	155.10	158.18	160.31	166.67	157.27	156.93	154.94	154.71		154.31	
31		155.55		158.46	160.30		157.22		154.98	154.69		154.29	
MEAN	154.79	155.35	155.49	157.61	160.96	160.51	162.09	156.74	155.46	154.98	155.04	155.05	
MAX	154.95	155.62	156.21	158.60	165.11	166.67	167.71	157.19	156.91	155.90	155.30	155.40	167.71
MIN	154.15	155.03	155.01	154.93	159.45	157.80	157.22	156.21	154.94	154.56	154.69	154.25	154.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 167.72 M (MSL), AT 12.00 HOURS, ON OCT 3, 1978
ZERO GAGE AT BOTTOM ELEVATION 150.92 M (MSL), RIVER BED 151.80 M (MSL)
LEFT BANK ELEVATION 162.91 M (MSL)
RIGHT BANK ELEVATION 163.20 M (MSL), DRAINAGE AREA 13183 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.6	65.8	66.2	50.0	278.1	192.0	873.1	136.4	124.6	49.0	42.3	58.0	
2	31.8	65.8	64.1	70.5	330.4	201.2	912.4	127.1	113.7	48.7	42.9	59.0	
3	39.4	53.2	65.8	138.6	366.0	210.4	922.0	124.2	85.5	47.7	43.9	61.0	
4	44.2	55.9	66.2	155.3	386.2	209.4	912.4	119.6	79.8	47.1	46.1	63.8	
5	44.2	56.3	68.0	161.0	396.7	206.2	895.2	117.9	77.0	46.1	48.4	63.4	
6	50.6	55.6	71.9	175.9	353.6	196.8	864.5	116.6	76.2	46.1	50.6	64.8	
7	47.7	58.3	81.3	187.4	333.2	163.2	796.6	114.5	74.8	45.5	51.2	65.1	
8	46.1	58.0	83.6	200.2	247.2	172.7	715.9	115.4	73.4	48.0	50.3	65.8	
9	48.7	53.6	89.7	195.4	282.8	198.3	634.9	113.7	72.6	58.0	50.3	32.4	
10	48.7	53.2	96.0	194.0	269.2	207.8	582.7	96.0	71.9	50.9	51.6	31.2	
11	49.0	57.0	88.2	192.0	276.0	222.6	544.3	96.0	70.8	49.0	51.9	62.4	
12	48.0	57.0	86.7	193.5	284.2	248.5	515.5	96.8	70.1	50.9	52.2	62.7	
13	48.0	56.6	77.0	185.1	528.3	255.7	536.3	98.8	69.4	50.3	52.2	61.7	
14	49.6	60.4	71.9	175.4	679.9	249.1	565.9	110.8	68.7	84.0	52.9	61.4	
15	48.7	59.0	67.2	165.4	545.1	236.6	579.5	115.4	66.5	77.7	53.2	58.0	
16	45.5	63.1	69.8	148.2	451.5	222.6	557.1	117.5	65.5	78.4	54.6	59.0	
17	46.8	68.0	68.0	133.4	407.2	227.0	471.5	117.9	65.1	72.3	56.6	60.7	
18	47.7	67.6	62.1	133.0	385.5	240.9	384.7	118.7	64.4	73.0	58.0	60.7	
19	50.0	67.6	60.7	129.7	372.7	255.7	311.4	128.8	63.4	70.8	57.6	28.8	
20	47.4	71.6	66.2	125.5	406.5	265.8	207.8	129.2	62.1	74.4	57.3	28.5	
21	40.7	69.4	65.5	128.8	297.1	290.3	178.6	133.4	60.7	39.4	62.4	61.0	
22	44.2	69.0	68.0	157.9	276.8	392.2	171.3	134.3	59.7	38.1	60.7	60.4	
23	48.4	69.8	70.5	129.7	321.6	428.2	166.3	128.8	58.7	39.4	60.0	60.4	
24	44.5	71.2	68.3	164.1	292.4	484.3	165.0	126.7	58.0	40.0	59.3	61.4	
25	44.5	72.6	57.0	155.3	315.5	561.1	164.5	121.7	56.3	39.1	58.7	61.4	
26	46.8	71.2	54.9	132.6	310.7	555.5	164.1	114.5	55.6	38.4	59.0	61.4	
27	44.5	73.7	55.9	134.3	315.5	697.0	162.8	110.0	54.6	40.7	59.7	62.1	
28	49.3	72.6	52.5	172.2	312.1	706.9	157.0	111.2	54.2	41.6	59.3	61.7	
29	49.3	71.6	54.6	176.3	308.0	776.2	148.2	115.0	52.2	42.9		29.1	
30	48.7	73.4	55.6	180.5	305.3	822.4	139.9	125.5	50.3	42.9		30.3	
31		71.2		193.5	304.6		137.7		51.6	42.3		29.7	
TOTAL	1368.6	1989.3	2073.4	4834.7	10941.9	10056.6	14539.1	3532.4	2127.4	1612.7	1503.2	1687.3	56266.5 CMSDAY
MEAN	45.6	64.2	69.1	156.0	353.0	335.2	469.0	117.7	68.6	52.0	53.7	54.4	154.2 CMS
MAX	50.6	73.7	96.0	200.2	679.9	822.4	922.0	136.4	124.6	84.0	62.4	65.8	922.0 CMS
MIN	25.6	53.2	52.5	50.0	247.2	163.2	137.7	96.0	50.3	38.1	42.3	28.5	25.6 CMS
RUNOFF	118.25	171.88	179.14	417.72	945.38	868.89	1256.18	305.20	183.81	139.34	129.88	145.78	4861.43 MCM

MOMENTARY PEAK 923.00 CMS, AT 167.72 M (MSL), AT 12.00 HOURS, ON OCT 3, 1978

RUNOFF YIELD 11.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 70.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 1954-1956, 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1968-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968-1974

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

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +180.60 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 684 DISCHARGE MEASUREMENTS MADE DURING 1968-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

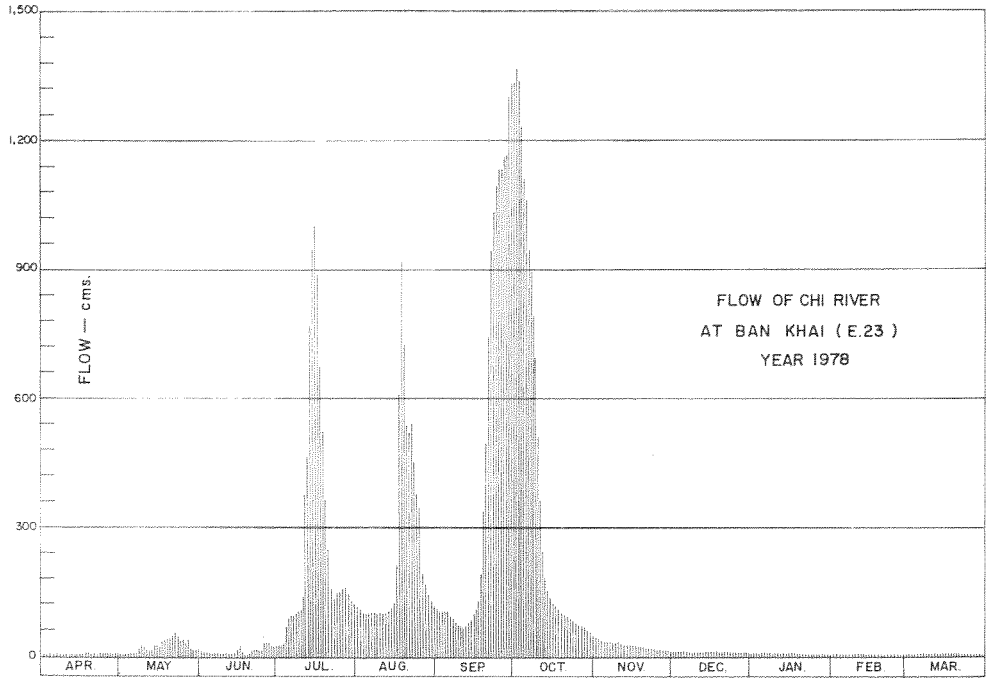
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	174.82	174.88	175.95	177.16	181.45	181.31	182.58	178.43	176.15	175.73	175.24	175.08	
2	174.80	174.88	175.85	177.17	181.33	181.23	182.59	178.31	176.12	175.74	175.25	175.09	
3	174.78	174.91	175.75	177.37	181.19	181.33	182.58	178.13	176.13	175.73	175.22	175.09	
4	174.73	174.89	175.69	179.70/	181.08	181.33	182.55	177.98	176.17	175.73	175.22	175.10	
5	174.64	174.86	175.60	180.67/	181.14	181.19	182.52	177.87	176.17	175.70	175.27	175.33	
6	174.58	174.89	175.53	180.91	181.22	180.99	182.50	177.77	176.12	175.68	175.27	175.67	
7	174.56	174.87	175.50	181.02	181.19	180.72	182.46	177.70	176.09	175.67	175.25	175.61	
8	174.55	176.56	175.45	181.16	181.08	180.33	182.44	177.64	176.06	175.69	175.20	175.54	
9	174.56	176.92	175.54	181.27	181.01	180.02	182.37	177.65	176.04	175.67	175.21	175.40	
10	174.62	176.78	175.57	181.44	181.08	179.81	182.28	177.65	176.05	175.67	175.18	175.37	
11	174.57	176.27	175.64	181.79	181.14	179.87	182.18	177.54	176.04	175.66	175.15	175.35	
12	174.60	175.93	175.56	182.25	181.19	180.03	182.06	177.43	176.03	175.66	175.11	175.34	
13	174.61	176.27	175.48	182.40	181.30	180.21	181.91	177.33	176.03	175.64	175.10	175.34	
14	174.58	177.21	175.40	182.46	181.46	180.59/	181.82	177.28	176.02	175.62	175.08	175.33	
15	174.58	176.87	175.94	182.48	181.69	181.15	181.74	177.24	176.00	175.59	175.15	175.31	
16	175.42	176.55	176.94	182.44	182.02	181.45	181.64	177.16	176.00	175.57	175.25	175.28	
17	175.65	177.53	175.72	182.36	182.33	181.74	181.53	177.05	176.01	175.56	175.25	175.27	
18	175.38	178.00	175.26	182.29	182.45	181.99	181.39	176.95	175.97	175.52	175.21	175.27	
19	175.26	177.99	175.06	182.18	182.38	182.16	181.25	176.88	175.95	175.44	175.17	175.25	
20	175.24	178.03	175.04	182.06	182.30	182.27	181.11	176.74	175.95	175.39	175.12	175.21	
21	175.36	178.66	176.22	181.90	182.29	182.39	181.00	176.63	175.95	175.38	175.09	175.15	
22	175.08	178.78	176.42	181.82	182.30	182.46	180.85	176.56	175.94	175.33	175.08	175.13	
23	175.04	178.10	176.21	181.79	182.24	182.49	180.66	176.52	175.94	175.34	175.04	175.14	
24	175.06	177.55	175.99	181.85	182.18	182.51	180.48	176.48	175.90	175.38	175.03	175.16	
25	175.05	177.78	176.08	181.88	182.11	182.52	180.28	176.46	175.84	175.36	175.07	175.12	
26	174.98	177.34	177.26	181.90	182.01	182.52	180.04	176.37	175.81	175.32	175.11	175.07	
27	174.94	177.74	177.57	181.90	181.92	182.53	179.88	176.30	175.82	175.33	175.10	175.08	
28	174.90	176.32	177.39	181.84	181.84	182.56	179.72	176.25	175.81	175.37	175.10	175.06	
29	174.86	176.07	177.01	181.75	181.73	182.57	179.48	176.22	175.79	175.33		175.00	
30	174.85	176.02	176.90	181.65	181.61	182.58	179.11	176.19	175.77	175.27		174.99	
31		176.03		181.57	181.46		178.68		175.73	175.25		174.98	
MEAN	174.89	176.63	175.98	181.30	181.67	181.49	181.34	177.16	175.98	175.53	175.16	175.23	
MAX	175.65	178.78	177.57	182.48	182.45	182.58	182.59	178.43	176.17	175.74	175.27	175.67	182.59
MIN	174.55	174.86	175.04	177.16	181.01	179.81	178.68	176.19	175.73	175.25	175.03	174.98	174.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 182.59 M (MSL), AT 24.00 HOURS, ON OCT 1, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.6	0.9	8.7	23.7	109.4	103.5	1332.0	43.5	10.8	6.6	2.7	1.9	
2	0.5	0.9	7.7	23.9	104.4	100.9	1366.1	41.5	10.4	6.7	2.8	2.0	
3	0.4	1.0	6.8	26.9	99.6	104.4	1332.0	38.6	10.5	6.6	2.6	2.0	
4	0.1	1.0	6.2	65.3	96.1	104.4	1230.0	36.2	11.0	6.6	2.6	2.0	
5	0.0	0.8	5.4	84.1	98.0	99.6	1128.0	34.5	11.0	6.3	2.9	3.3	
6	0.0	1.0	4.8	90.7	100.5	93.2	1060.0	33.0	10.4	6.1	2.9	6.0	
7	0.0	0.9	4.6	94.1	99.6	85.3	941.6	31.9	10.1	6.0	2.8	5.5	
8	0.0	15.5	4.2	98.6	96.1	77.0	882.3	31.0	9.8	6.2	2.5	4.9	
9	0.0	20.3	4.9	102.1	93.8	71.1	695.6	31.2	9.6	6.0	2.6	3.8	
10	0.0	18.3	5.2	109.0	96.1	67.3	505.2	31.2	9.7	6.0	2.4	3.6	
11	0.0	12.1	5.8	131.3	98.0	68.4	360.8	29.5	9.6	5.9	2.3	3.4	
12	0.0	8.2	5.1	459.0	99.6	71.3	243.8	27.8	9.5	5.9	2.1	3.4	
13	0.0	12.1	4.4	764.0	103.1	74.7	158.7	26.3	9.5	5.8	2.0	3.4	
14	0.0	24.5	3.8	941.6	109.8	82.1	136.8	25.5	9.4	5.6	1.9	3.3	
15	0.0	19.6	8.6	1000.7	121.5	98.3	126.1	24.9	9.2	5.3	2.3	3.2	
16	4.0	15.4	20.6	882.3	211.7	109.4	118.8	23.7	9.2	5.2	2.8	3.0	
17	5.9	29.3	6.5	672.8	604.4	126.1	113.1	22.1	9.3	5.1	2.8	2.9	
18	3.7	36.5	2.9	520.6	912.0	191.5	106.9	20.7	8.9	4.8	2.6	2.9	
19	2.9	36.3	1.8	360.8	718.4	339.6	101.5	19.7	8.7	4.1	2.4	2.8	
20	2.7	37.0	1.7	243.8	536.0	489.8	97.0	17.8	8.7	3.7	2.1	2.6	
21	3.5	47.4	11.5	154.6	520.6	741.2	93.5	16.4	8.7	3.7	2.0	2.3	
22	1.9	49.5	13.8	136.8	536.0	941.6	88.8	15.5	8.6	3.3	1.9	2.1	
23	1.7	38.1	11.4	131.3	443.6	1030.4	83.8	15.0	8.6	3.4	1.7	2.2	
24	1.8	29.6	9.1	143.4	360.8	1093.9	79.9	14.6	8.2	3.7	1.7	2.3	
25	1.8	33.2	10.0	150.1	286.6	1128.0	76.0	14.3	7.6	3.5	1.8	2.1	
26	1.4	26.5	25.2	154.6	203.6	1128.0	71.5	13.2	7.3	3.2	2.1	1.8	
27	1.2	32.5	30.0	154.6	162.8	1162.0	68.5	12.4	7.4	3.3	2.0	1.9	
28	1.0	12.6	27.2	141.2	141.2	1264.0	65.7	11.9	7.3	3.6	2.0	1.8	
29	0.8	9.9	21.5	127.2	125.1	1298.0	61.4	11.5	7.1	3.3		1.5	
30	0.7	9.4	20.0	119.4	117.2	1332.0	55.1	11.2	6.9	2.9		1.5	
31		9.5		115.1	109.8		47.8		6.6	2.8		1.4	
TOTAL	36.6	589.8	299.4	8223.6	7515.4	13677.0	12828.3	726.6	279.6	151.2	65.3	86.8	44479.5 CMSDAY
MEAN	1.2	19.0	10.0	265.3	242.4	455.9	413.8	24.2	9.0	4.9	2.3	2.8	121.9 CMS
MAX	5.9	49.5	30.0	1000.7	912.0	1332.0	1366.1	43.5	11.0	6.7	2.9	6.0	1366.1 CMS
MIN	0.0	0.8	1.7	23.7	93.8	67.3	47.8	11.2	6.6	2.8	1.7	1.4	0.0 CMS
RUNOFF	3.16	50.96	25.87	710.52	649.33	1181.69	1108.36	62.78	24.16	13.06	5.64	7.50	3843.03 MCM

MOMENTARY PEAK 1366.06 CMS, AT 182.59 M (MSL), AT 24.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 17.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 199.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

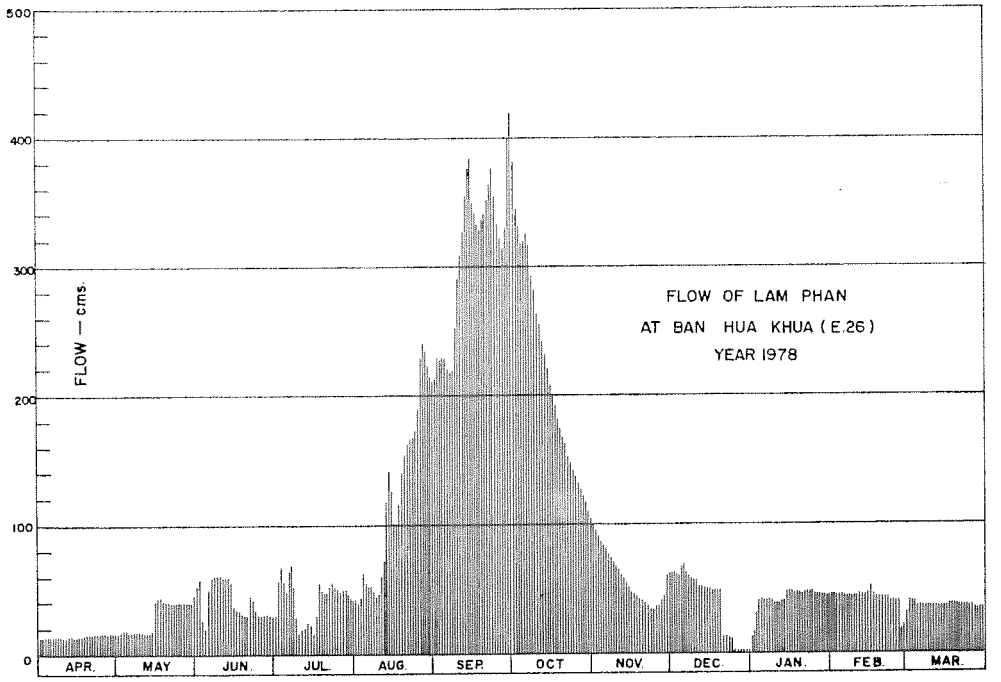
LAM PHAN AT BAN HUA KHUA, KALASIN (E.26)

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	+134.380 M. (M.S.L.)
BENCH MARK	-
LOCATION	-
ELEVATION	-
GAGE READING FREQUENCY	4-TIME DAILY READINGS AT 06.00, 10.00, 14.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 4 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	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	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 94 DISCHARGE MEASUREMENTS MADE DURING 1971-1976. FLOW REGULATED BY LAM PAO DAM.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	135.38	135.51	136.65	135.91	136.34	139.77	140.71	137.81	136.86	135.36	136.45	136.10	
2	135.39	135.54	136.76	136.69	136.28	139.93	140.61	137.69	136.88	135.53	136.45	136.32	
3	135.40	135.65	135.89	137.00	136.39	139.92	140.54	137.59	136.83	136.29	136.45	136.30	
4	135.40	135.61	135.62	136.79	136.86	139.93	140.45	137.48	136.81	136.34	136.44	136.30	
5	135.41	135.57	136.29	136.50	136.69	139.89	140.44	137.41	137.00	136.34	136.45	136.24	
6	135.41	135.57	136.80	136.62	136.60	139.83	140.48	137.34	137.02	136.34	136.44	136.21	
7	135.41	135.56	136.83	137.06	136.61	139.81	140.44	137.23	136.83	136.34	136.44	136.21	
8	135.41	135.56	136.82	137.01	136.50	139.83	140.37	137.13	136.79	136.33	136.44	136.20	
9	135.41	135.56	136.84	135.98	136.37	140.10	140.28	137.06	136.77	136.32	136.41	136.19	
10	135.41	135.56	136.83	135.45	136.44	140.32	140.22	136.97	136.73	136.26	136.40	136.18	
11	135.41	135.55	136.82	135.64	136.79	140.44	140.12	136.87	136.71	136.24	136.46	136.18	
12	135.42	135.55	136.81	135.64	137.15	140.49	140.02	136.80	136.64	136.27	136.48	136.18	
13	135.42	135.55	136.79	135.67	138.22	140.64	139.94	136.72	136.61	136.31	136.47	136.19	
14	135.42	135.57	136.69	135.85	138.70	140.67	139.84	136.62	136.58	136.51	136.45	136.19	
15	135.42	136.34	136.23	135.63	138.39	140.61	139.75	136.56	136.58	136.48	136.46	136.19	
16	135.42	136.37	136.13	135.44	137.83	140.55	139.65	136.49	136.56	136.50	136.67	136.18	
17	135.42	136.38	136.13	135.82	137.80	140.51	139.53	136.45	136.54	136.51	136.52	136.20	
18	135.43	136.38	136.06	136.67	138.18	140.49	139.41	136.40	136.54	136.50	136.43	136.25	
19	135.48	136.35	136.03	136.53	138.61	140.52	139.28	136.35	136.54	136.48	136.41	136.25	
20	135.49	136.31	135.94	136.47	138.95	140.54	139.17	136.30	136.53	136.47	136.41	136.23	
21	135.50	136.29	136.37	136.52	139.09	140.57	139.07	136.25	135.35	136.48	136.39	136.24	
22	135.49	136.28	136.39	136.62	139.17	140.62	138.95	136.21	135.34	136.48	136.38	136.23	
23	135.48	136.28	136.28	136.69	139.21	140.65	138.86	136.17	135.35	136.52	136.37	136.24	
24	135.48	136.28	136.12	136.64	139.27	140.58	138.75	136.12	135.31	136.53	136.31	136.22	
25	135.48	136.29	136.06	136.55	139.51	140.51	138.64	136.17	134.87	136.48	136.30	136.21	
26	135.50	136.29	136.03	136.50	139.92	140.46	138.55	136.21	134.56	136.47	136.30	136.19	
27	135.52	136.30	136.03	136.53	140.01	140.43	138.44	136.29	134.54	136.46	136.29	136.14	
28	135.52	136.30	136.03	136.59	139.96	140.49	138.33	136.39	134.57	136.45	135.63	136.15	
29	135.51	136.30	136.01	136.51	139.87	140.73	138.21	136.81	134.49	136.44		136.14	
30	135.51	136.30	135.95	136.42	139.79	140.80	138.05	136.84	134.47	136.44		136.14	
31		136.50		136.37	139.74		137.93		134.46	136.44		136.12	
MEAN	135.44	135.98	136.34	136.33	138.10	140.35	139.52	136.76	136.05	136.35	136.40	136.20	
MAX	135.52	136.50	136.84	137.06	140.01	140.80	140.71	137.81	137.02	136.53	136.67	136.32	140.80
MIN	135.38	135.51	135.62	135.44	136.28	139.77	137.93	136.12	134.46	135.36	135.63	136.10	134.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 140.82 M (MSL), AT 1.00 HOURS, ON SEP 30, 1978
ZERO GAGE AT BOTTOM ELEVATION 134.38 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.10	15.75	53.00	27.30	41.40	213.00	393.00	99.40	61.40	12.70	45.25	33.00	
2	13.30	16.50	57.40	54.60	39.30	229.60	363.00	94.60	62.20	16.25	45.25	40.70	
3	13.50	19.50	26.70	67.00	43.15	228.40	341.99	90.60	60.20	39.65	45.25	40.00	
4	13.50	18.30	18.60	58.60	61.40	229.60	317.50	86.20	59.40	41.40	44.90	40.00	
5	13.70	17.25	39.65	47.00	54.60	225.00	314.99	83.40	67.00	41.40	45.25	37.90	
6	13.70	17.25	59.00	51.80	51.00	219.00	325.00	80.60	67.80	41.40	44.90	36.85	
7	13.70	17.00	60.20	69.40	51.40	217.00	314.99	76.20	60.20	41.40	44.90	36.85	
8	13.70	17.00	59.80	67.40	47.00	219.00	299.00	72.20	58.60	41.05	44.90	36.50	
9	13.70	17.00	60.60	29.40	42.45	253.00	281.60	69.40	57.80	40.70	43.65	36.15	
10	13.70	17.00	60.20	14.50	44.90	289.00	271.40	65.80	56.20	38.60	43.50	35.80	
11	13.70	16.75	59.80	19.20	58.60	314.99	256.00	61.80	55.40	37.90	45.60	35.80	
12	13.90	16.75	59.40	19.20	73.00	327.50	241.00	59.00	52.60	38.95	46.30	35.80	
13	13.90	16.75	58.60	20.10	117.00	372.00	230.80	55.80	51.40	40.35	45.95	36.15	
14	13.90	17.25	54.60	25.50	141.00	381.00	220.00	51.80	50.20	47.40	45.25	36.15	
15	13.90	41.40	37.55	18.90	125.50	363.00	211.00	49.40	50.20	46.30	45.60	36.15	
16	13.90	42.45	34.05	14.30	100.20	345.00	201.00	46.65	49.40	47.00	53.80	35.80	
17	13.90	42.80	34.05	24.60	99.00	332.99	191.10	45.25	48.60	47.40	47.80	36.50	
18	14.10	42.80	31.80	53.80	115.00	327.50	182.70	43.50	48.60	47.00	44.55	38.25	
19	15.10	41.75	30.90	48.20	136.50	336.00	173.60	41.75	48.60	46.30	43.85	38.25	
20	15.30	40.35	28.20	45.95	153.50	341.99	166.20	40.00	48.20	45.95	43.85	37.55	
21	15.50	39.65	42.45	47.80	161.40	350.99	160.20	38.25	12.50	46.30	43.15	37.90	
22	15.30	39.30	43.15	51.80	166.20	366.00	153.50	36.85	12.30	46.30	42.80	37.55	
23	15.10	39.30	39.30	54.60	166.70	375.00	149.00	35.45	12.50	47.80	42.45	37.90	
24	15.10	39.30	33.70	52.60	172.90	354.00	143.50	33.70	11.70	48.20	40.35	37.20	
25	15.10	39.65	31.80	49.00	189.70	332.99	138.00	35.45	2.90	46.30	40.00	36.85	
26	15.50	39.65	30.90	47.00	228.40	320.00	133.50	36.85	0.00	45.95	40.00	36.15	
27	16.00	40.00	30.90	48.20	239.50	312.50	128.00	39.65	0.00	45.60	39.65	34.40	
28	16.00	40.00	30.90	50.60	233.20	327.50	122.50	43.15	0.00	45.25	18.90	34.75	
29	15.75	40.00	30.30	47.40	223.00	399.00	116.50	59.40	0.00	44.90		34.40	
30	15.75	40.00	28.50	44.20	215.00	420.00	109.00	60.60	0.00	44.90		34.40	
31		47.00		42.45	210.00		104.20		0.00	44.90		33.70	
TOTAL	432.30	935.45	1266.00	1312.40	3803.90	9322.55	6753.77	1732.70	1165.90	1305.50	1217.80	1135.35	30383.62 CMSDAY
MEAN	14.41	30.18	42.20	42.34	122.71	310.75	217.86	57.76	37.61	42.11	43.49	36.62	83.24 CMS
MAX	16.00	47.00	60.60	69.40	239.50	420.00	393.00	99.40	67.80	48.20	53.80	40.70	420.00 CMS
MIN	13.10	15.75	18.60	14.30	39.30	213.00	104.20	33.70	0.00	12.70	18.90	33.00	0.00 CMS
RUNOFF	37.351	80.823	109.382	113.391	328.657	805.468	583.525	149.705	100.734	112.795	105.218	98.094	2625.145 MCM

MOMENTARY PEAK 425.99 CMS, AT 140.82 M (MSL), AT 1.00 HOURS, ON SEP 30, 1978

RUNOFF YIELD 12.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 64.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

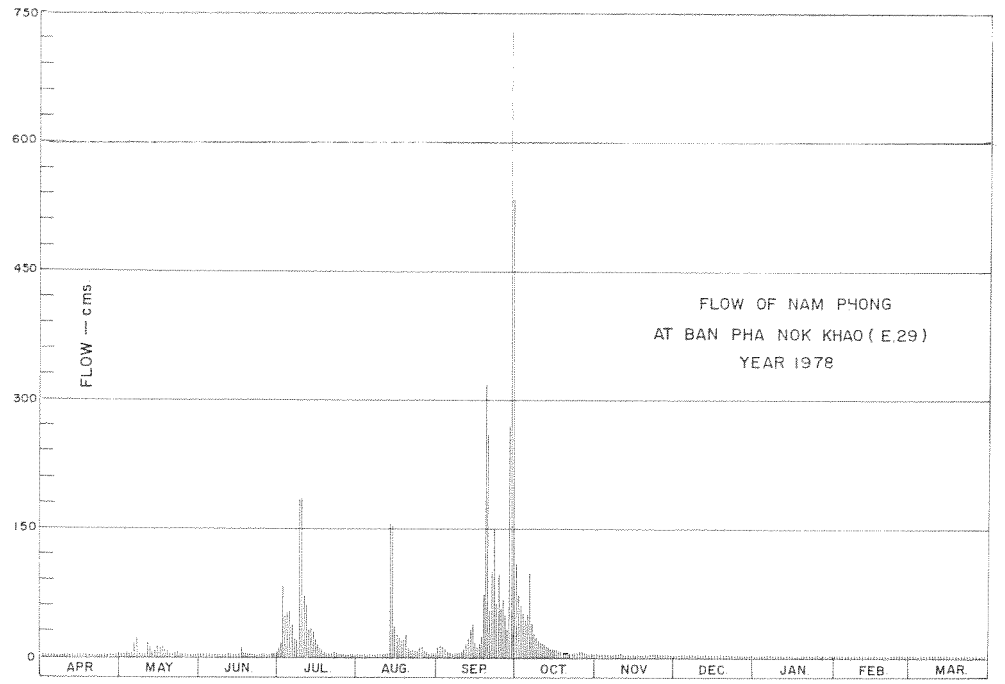
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +237.80 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 116 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	225.46	225.59	225.61	225.68	226.08	226.89	231.11	226.09	225.83	225.70	225.61	225.64	
2	225.47	225.56	225.61	227.48	225.93	226.91	229.55	226.08	225.84	225.69	225.60	225.60	
3	225.48	226.00	225.59	230.38	225.87	226.68	229.12	226.07	225.86	225.69	225.60	225.59	
4	225.49	226.52	225.57	228.87	225.83	226.44	228.66	226.04	225.88	225.69	225.60	225.58	
5	225.55	226.05	225.56	229.17	225.81	226.27	228.99	226.05	225.90	225.69	225.60	225.58	
6	225.57	227.07	225.56	228.82	225.80	226.14	230.76	226.06	225.90	225.69	225.60	225.59	
7	225.52	227.43	225.56	227.51	225.78	226.08	228.33	226.07	225.87	225.67	225.60	225.58	
8	225.50	226.19	225.54	228.17	225.77	226.04	227.73	226.07	225.86	225.67	225.59	225.58	
9	225.49	226.08	225.54	233.10	225.76	226.16	227.36	226.06	225.85	225.67	225.59	225.58	
10	225.51	225.96	225.54	233.12	225.78	226.26	227.14	226.03	225.85	225.67	225.61	225.58	
11	225.48	227.04	225.66	229.96	225.91	226.88	227.15	226.02	225.86	225.67	225.61	225.57	
12	225.59	226.83	226.02	229.25	225.99	227.19	226.99	225.96	225.85	225.66	225.62	225.56	
13	225.76	226.21	225.77	228.08	232.37	228.21	226.86	225.93	225.84	225.66	225.67	225.56	
14	225.73	226.35	226.03	228.03	232.33	228.40	226.71	225.92	225.84	225.66	225.64	225.56	
15	225.60	227.06	225.82	227.86	228.34	227.20	226.62	225.89	225.83	225.66	225.64	225.56	
16	225.55	226.43	225.77	227.10	227.78	226.76	226.55	225.95	225.83	225.66	225.65	225.56	
17	225.52	226.87	226.73	226.74	227.41	227.29	226.49	226.08	225.80	225.66	225.64	225.55	
18	225.53	226.51	226.34	226.45	227.25	229.89	226.43	226.10	225.79	225.65	225.64	225.55	
19	225.58	226.43	226.24	226.28	227.65	235.35	226.41	226.09	225.79	225.65	225.64	225.56	
20	225.57	226.33	226.05	226.18	226.95	234.47	226.37	226.12	225.77	225.65	225.63	225.55	
21	225.69	226.13	225.90	226.11	226.62	229.20	226.34	226.10	225.76	225.65	225.63	225.55	
22	225.67	226.19	225.81	226.18	226.52	232.26	226.32	226.09	225.76	225.64	225.62	225.55	
23	225.64	226.47	225.81	226.36	226.43	229.61	226.29	226.08	225.73	225.64	225.62	225.55	
24	225.58	226.20	225.87	226.12	226.39	230.69	226.30	226.10	225.73	225.63	225.62	225.55	
25	225.56	225.96	225.94	226.03	226.92	229.26	226.36	226.09	225.74	225.63	225.60	225.55	
26	225.67	225.88	225.82	225.96	226.68	229.64	226.36	225.93	225.73	225.63	225.59	225.53	
27	225.58	225.76	225.76	225.91	226.44	228.26	226.26	225.93	225.73	225.62	225.59	225.53	
28	225.56	225.73	225.73	225.90	226.25	234.82	226.23	225.91	225.73	225.62	225.66	225.53	
29	225.74	225.69	225.69	225.88	226.15	239.91	226.21	225.89	225.73	225.62		225.53	
30	225.64	225.66	225.67	225.89	226.16	238.03	226.14	225.78	225.73	225.62		225.54	
31		225.63		226.09	226.20		226.10		225.73	225.62		225.55	
MEAN	225.58	226.25	225.80	227.57	226.81	229.24	227.23	226.02	225.80	225.66	225.62	225.56	
MAX	225.76	227.43	226.73	233.12	232.37	239.91	231.11	226.12	225.90	225.70	225.67	225.64	239.91
MIN	225.46	225.56	225.54	225.68	225.76	226.04	226.10	225.78	225.73	225.62	225.59	225.53	225.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 240.16 M (MSL), AT 10.00 HOURS, ON SEP 29, 1978
ZERO GAGE AT BOTTOM ELEVATION 225.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 237.80 M (MSL)
RIGHT BANK ELEVATION 238.09 M (MSL), DRAINAGE AREA 945 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.97	1.05	1.40	3.40	12.85	108.85	3.45	2.15	1.50	1.05	1.20	
2	0.61	0.88	1.05	21.70	2.65	13.15	63.75	3.40	2.20	1.45	1.00	1.00	
3	0.64	3.00	0.97	86.40	2.35	9.70	53.00	3.35	2.30	1.45	1.00	0.97	
4	0.67	7.70	0.91	46.90	2.15	6.90	42.70	3.20	2.40	1.45	1.00	0.94	
5	0.85	3.25	0.88	54.25	2.05	5.20	49.75	3.25	2.50	1.45	1.00	0.94	
6	0.91	15.55	0.88	45.90	2.00	3.90	97.80	3.30	2.50	1.45	1.00	0.97	
7	0.76	20.95	0.88	22.15	1.90	3.40	36.10	3.35	2.35	1.35	1.00	0.94	
8	0.70	4.40	0.82	32.90	1.85	3.20	25.45	3.35	2.30	1.35	0.97	0.94	
9	0.67	3.40	0.82	184.00	1.80	4.10	19.90	3.30	2.25	1.35	0.97	0.94	
10	0.73	2.80	0.82	184.80	1.90	5.10	16.60	3.15	2.25	1.35	1.05	0.94	
11	0.64	15.10	1.30	74.00	2.55	12.70	16.75	3.10	2.30	1.35	1.05	0.91	
12	0.97	11.95	3.10	56.25	2.95	17.35	14.35	2.80	2.25	1.30	1.10	0.88	
13	1.80	4.60	1.85	31.10	154.80	33.70	12.40	2.65	2.20	1.30	1.35	0.88	
14	1.65	6.00	3.15	30.10	153.20	37.50	10.15	2.60	2.20	1.30	1.20	0.88	
15	1.00	15.40	2.10	27.40	36.30	17.50	8.80	2.45	2.15	1.30	1.20	0.88	
16	0.85	6.80	1.85	16.00	26.20	10.90	8.00	2.75	2.15	1.30	1.25	0.88	
17	0.76	12.55	10.45	10.60	20.65	18.85	7.40	3.40	2.00	1.30	1.20	0.85	
18	0.79	7.60	5.90	7.00	18.25	72.25	6.80	3.50	1.95	1.25	1.20	0.85	
19	0.94	6.80	4.90	5.30	24.25	318.50	6.60	3.45	1.95	1.25	1.20	0.88	
20	0.91	5.80	3.25	4.30	13.75	258.20	6.20	3.70	1.85	1.25	1.15	0.85	
21	1.45	3.80	2.50	3.60	8.80	55.00	5.90	3.50	1.80	1.25	1.15	0.85	
22	1.35	4.40	2.05	4.30	7.70	150.40	5.70	3.45	1.80	1.20	1.10	0.85	
23	1.20	7.20	2.05	6.10	6.80	65.25	5.40	3.40	1.65	1.20	1.10	0.85	
24	0.94	4.50	2.35	3.70	6.40	95.70	5.50	3.50	1.65	1.15	1.10	0.85	
25	0.88	2.80	2.70	3.15	13.30	56.50	6.10	3.45	1.70	1.15	1.00	0.85	
26	1.35	2.40	2.10	2.80	9.70	66.00	6.10	2.65	1.65	1.15	0.97	0.79	
27	0.94	1.80	1.80	2.55	6.90	34.70	5.10	2.65	1.65	1.10	0.97	0.79	
28	0.88	1.65	1.65	2.50	5.00	281.40	4.80	2.55	1.65	1.10	1.30	0.79	
29	1.70	1.45	1.45	2.40	4.00	728.10	4.60	2.45	1.65	1.10		0.79	
30	1.20	1.30	1.35	2.45	4.10	531.00	3.90	1.90	1.65	1.10		0.82	
31		1.15		3.45	4.50		3.50		1.65	1.10		0.85	
TOTAL	29.32	187.95	66.93	979.45	552.15	2929.00	667.95	93.00	62.70	39.65	30.63	27.60	5666.32 CMSDAY
MEAN	0.98	6.06	2.23	31.60	17.81	97.63	21.55	3.10	2.02	1.28	1.09	0.89	15.52 CMS
MAX	1.80	20.95	10.45	184.80	154.80	728.10	108.85	3.70	2.50	1.50	1.35	1.20	728.10 CMS
MIN	0.58	0.88	0.82	1.40	1.80	3.20	3.50	1.90	1.65	1.10	0.97	0.79	0.58 CMS
RUNOFF	2.533	16.239	5.783	84.624	47.706	253.065	57.711	8.035	5.417	3.426	2.646	2.385	489.570 MCM

MOMENTARY PEAK 757.20 CMS, AT 240.16 M (MSL), AT 10.00 HOURS, ON SEP 29, 1978
RUNOFF YIELD 16.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 801.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

CHI RIVER AT BAN NONG O, CHAIYAPHUM (E.32A)

LOCATION — LAT. 15°-54'-40" N., LONG. 101°-42'-40" E., ON LEFT BANK ABOUT 500 METERS NORTH OF BAN NONG O, 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.S.

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.

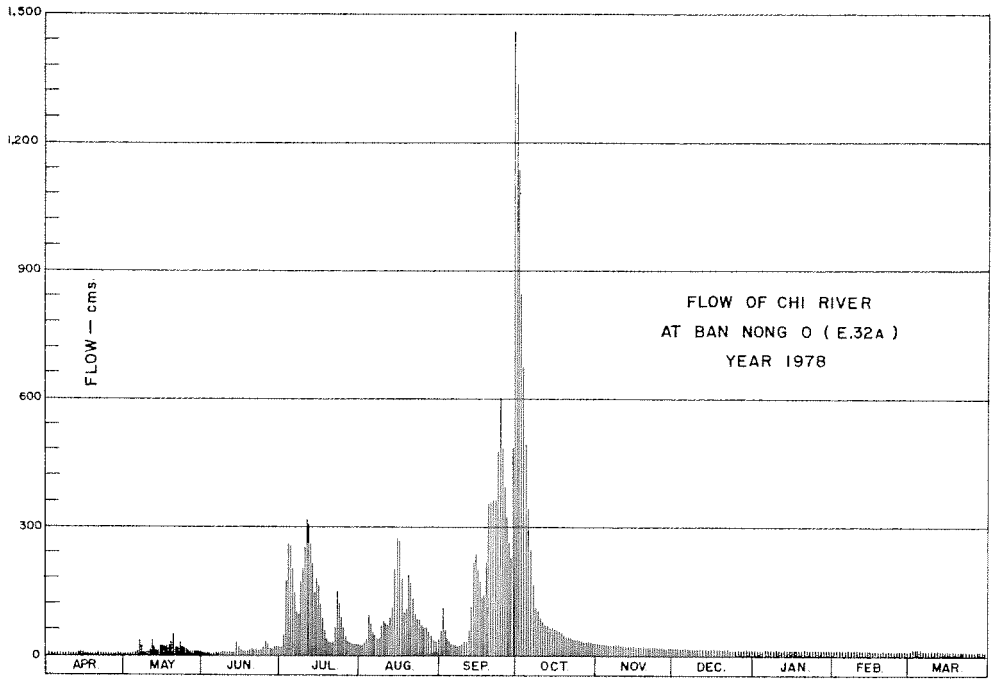
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +210.00 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 209 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	198.42	198.48	198.82	199.42	199.75	201.24	211.43	199.94	199.43	199.18	199.04	198.95	
2	198.41	198.48	198.77	200.85	200.23	203.23	210.91	199.88	199.41	199.17	199.03	199.04	
3	198.39	198.45	198.74	204.98	200.65	201.13	210.45	199.85	199.40	199.15	199.02	199.28	
4	198.39	198.47	198.70	207.09	202.59	200.36	209.69	199.83	199.39	199.14	199.02	199.17	
5	198.39	198.54	198.70	206.98	201.81	200.05	208.51	199.82	199.38	199.14	199.02	199.06	
6	198.39	198.86	198.70	205.57	200.93	199.85	206.81	199.81	199.37	199.14	199.01	199.02	
7	198.40	199.89	198.71	202.92	200.53	199.75	204.75	199.84	199.36	199.14	199.01	199.00	
8	198.39	199.40	198.81	202.63	200.62	199.67	203.22	199.88	199.35	199.13	199.01	198.99	
9	198.39	198.68	198.83	205.40	201.83	199.89	202.66	199.82	199.35	199.13	199.01	198.99	
10	198.39	198.87	198.75	206.93	202.07	200.39	202.37	199.77	199.35	199.13	199.01	198.99	
11	198.39	199.36	198.70	207.81	201.77	200.01	202.10	199.73	199.34	199.15	199.00	198.99	
12	198.40	199.95	198.68	207.75	202.28	201.31	202.02	199.70	199.32	199.13	199.03	198.98	
13	198.92	199.24	198.88	206.20	203.14	203.21	201.77	199.68	199.31	199.13	199.12	198.98	
14	198.98	199.05	199.98	204.21	205.84	206.27	201.59	199.66	199.30	199.11	199.07	198.96	
15	198.68	199.70	199.39	205.11	207.37	206.63	201.44	199.63	199.30	199.10	199.05	198.96	
16	198.67	199.78	199.08	204.63	207.20	205.29	201.31	199.62	199.27	199.10	199.04	198.96	
17	198.68	199.63	199.01	202.75	204.86	203.95	201.19	199.60	199.27	199.10	199.03	198.96	
18	198.59	199.68	198.97	201.42	202.88	204.21	201.05	199.59	199.29	199.12	199.01	198.96	
19	198.64	200.17	199.08	200.42	203.65	206.42	200.87	199.58	199.29	199.11	199.00	198.96	
20	198.61	200.73	199.39	200.07	205.41	208.17	200.77	199.56	199.27	199.10	199.00	198.96	
21	198.62	199.58	199.15	200.11	204.23	208.64	200.68	199.55	199.27	199.10	199.00	198.96	
22	198.62	199.40	199.02	201.56	202.76	208.67	200.59	199.56	199.24	199.10	198.98	198.96	
23	198.58	200.00	199.06	204.28	202.33	209.60	200.49	199.55	199.22	199.09	198.97	198.96	
24	198.51	199.46	199.46	203.25	202.15	210.18	200.42	199.53	199.21	199.08	198.97	198.92	
25	198.48	199.22	200.22	201.91	201.53	209.92	200.37	199.52	199.20	199.08	198.97	198.90	
26	198.46	199.05	199.71	200.88	201.49	208.94	200.33	199.51	199.19	199.06	198.97	198.90	
27	198.45	198.94	199.41	200.26	201.42	207.63	200.26	199.49	199.18	199.06	198.97	198.90	
28	198.52	198.92	199.33	200.03	200.96	206.51	200.20	199.49	199.17	199.06	198.97	198.90	
29	198.49	199.00	199.64	200.00	200.55	209.65	200.14	199.44	199.17	199.04		198.90	
30	198.48	198.91	199.60	199.87	200.28	211.55	200.08	199.43	199.17	199.04		198.88	
31		198.87		199.82	200.13		200.01		199.18	199.04		198.87	
MEAN	198.52	199.25	199.11	203.07	202.36	204.74	202.85	199.66	199.29	199.11	199.01	198.97	
MAX	198.98	200.73	200.22	207.81	207.37	211.55	211.43	199.94	199.43	199.18	199.12	199.28	211.55
MIN	198.39	198.45	198.68	199.42	199.75	199.67	200.01	199.43	199.17	199.04	198.97	198.87	198.39

ANNUAL MAX MOMENTARY GAGE HEIGHT 211.65 M (MSL), AT 18.00 HOURS, ON SEP 30, 1978
ZERO GAGE AT BOTTOM ELEVATION 198.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 2906 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	1.20	6.30	15.40	22.00	55.00	1326.50	25.80	15.60	11.70	9.60	8.25	
2	0.15	1.20	5.55	45.25	31.60	110.90	892.98	24.60	15.20	11.55	9.45	9.60	
3	0.00	0.75	5.10	169.80	40.25	52.25	669.50	24.00	15.00	11.25	9.30	13.20	
4	0.00	1.05	4.50	256.00	91.70	34.20	489.30	23.60	14.85	11.10	9.30	11.55	
5	0.00	2.10	4.50	250.50	69.25	28.00	348.85	23.40	14.70	11.10	9.30	9.90	
6	0.00	6.90	4.50	190.45	47.25	24.00	242.00	23.20	14.55	11.10	9.15	9.30	
7	0.00	24.80	4.65	101.60	37.60	22.00	161.75	23.80	14.40	11.10	9.15	9.00	
8	0.00	15.00	6.15	92.90	39.50	20.40	110.60	24.60	14.25	10.95	9.15	8.85	
9	0.00	4.20	6.45	184.50	69.75	24.80	93.80	23.40	14.25	10.95	9.15	8.85	
10	0.00	7.05	5.25	248.00	76.10	34.80	85.10	22.40	14.25	10.95	9.15	8.85	
11	0.00	14.40	4.50	300.15	68.25	27.20	77.00	21.60	14.10	11.25	9.00	8.85	
12	0.00	26.00	4.20	296.25	82.40	56.75	74.60	21.00	13.80	10.95	9.45	8.70	
13	7.80	12.60	7.20	213.00	108.20	110.30	68.25	20.60	13.65	10.95	10.80	8.70	
14	8.70	9.75	26.60	142.85	199.90	216.15	63.75	20.20	13.50	10.65	10.05	8.40	
15	4.20	21.00	14.85	174.35	272.20	233.00	60.00	19.60	13.50	10.50	9.75	8.40	
16	4.05	22.60	10.20	157.55	262.00	180.65	56.75	19.40	13.05	10.50	9.60	8.40	
17	4.20	19.60	9.15	96.50	165.60	133.75	53.75	19.00	13.05	10.50	9.45	8.40	
18	2.85	20.60	8.55	59.50	100.40	142.85	50.25	18.80	13.35	10.80	9.15	8.40	
19	3.60	30.40	10.20	35.40	123.50	222.90	45.75	18.60	13.35	10.65	9.00	8.40	
20	3.15	42.25	14.85	28.40	184.85	323.55	43.25	18.20	13.05	10.50	9.00	8.40	
21	3.30	18.60	11.25	29.20	143.55	360.30	41.00	18.00	13.05	10.50	9.00	8.40	
22	3.30	15.00	9.30	63.00	96.80	363.15	38.80	18.20	12.60	10.50	8.70	8.40	
23	2.70	27.00	9.90	145.30	83.90	474.00	36.80	18.00	12.30	10.35	8.55	8.40	
24	1.65	16.20	16.20	111.50	78.50	592.00	35.40	17.60	12.15	10.20	8.55	7.80	
25	1.20	12.30	31.40	71.75	62.25	532.00	34.40	17.40	12.00	10.20	8.55	7.50	
26	0.90	9.75	21.20	46.00	61.25	390.00	33.60	17.20	11.85	9.90	8.55	7.50	
27	0.75	8.10	15.20	32.20	59.50	288.45	32.20	16.80	11.70	9.90	8.55	7.50	
28	1.80	7.80	13.95	27.60	48.00	227.00	31.00	16.80	11.55	9.90	8.55	7.50	
29	1.35	9.00	19.80	27.00	38.00	482.50	29.80	15.80	11.55	9.60		7.50	
30	1.20	7.65	19.00	24.40	32.60	1455.00	28.60	15.60	11.55	9.60		7.20	
31		7.05		23.40	29.60		27.20		11.70	9.60		7.05	
TOTAL	57.15	421.90	330.45	3659.70	2826.25	7217.85	5382.52	607.20	413.45	329.25	256.95	267.15	21769.81 CMSDAY
MEAN	1.90	13.61	11.01	118.05	91.17	240.59	173.63	20.24	13.34	10.62	9.18	8.62	59.64 CMS
MAX	8.70	42.25	31.40	300.15	272.20	1455.00	1326.50	25.80	15.60	11.70	10.80	13.20	1455.00 CMS
MIN	0.00	0.75	4.20	15.40	22.00	20.40	27.20	15.60	11.55	9.60	8.55	7.05	0.00 CMS
RUNOFF	4.938	36.452	28.551	316.198	244.188	623.622	465.050	52.462	35.722	28.447	22.200	23.082	1880.911 MCM

MOMENTARY PEAK 1575.02 CMS, AT 211.65 M (MSL), AT 18.00 HOURS, ON SEP 30, 1978
RUNOFF YIELD 20.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 541.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — FAIRLY STABLE BY SOME SILTING, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 1,640 DISCHARGE MEASUREMENTS MADE DURING 1961-1968.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

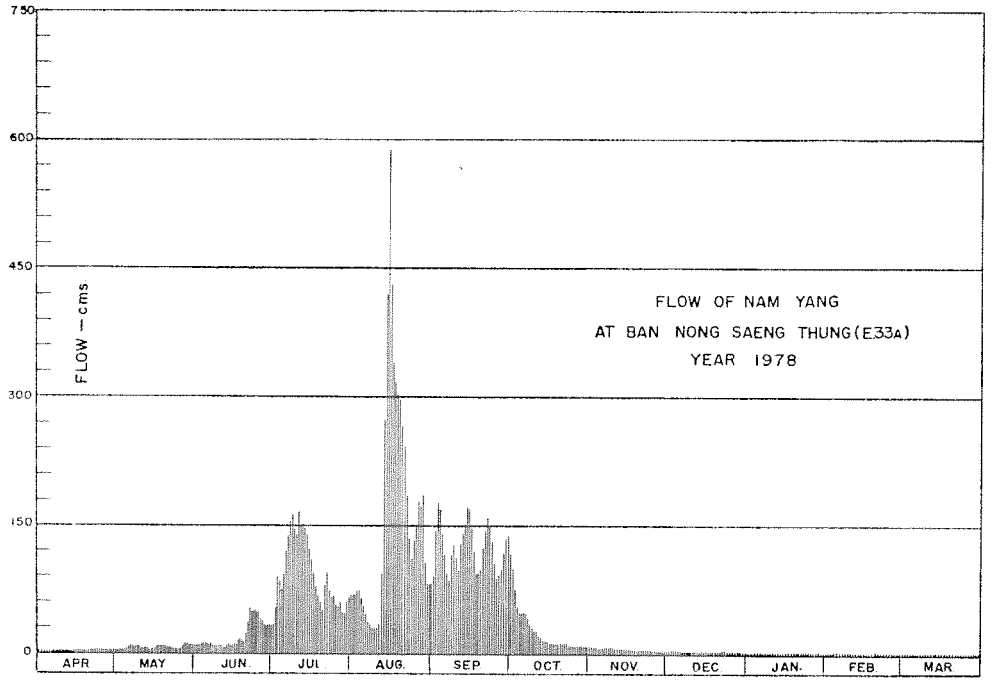
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.95	134.98	135.45	136.53	137.72	138.31	139.20	135.35	135.01	134.86	134.74	134.67	
2	134.93	135.06	135.56	137.25	137.74	139.67	138.47	135.35	135.00	134.82	134.76	134.66	
3	134.93	135.10	135.53	138.17	137.89	140.48	137.81	135.32	135.03	134.80	134.73	134.65	
4	134.92	135.10	135.59	137.86	137.59	140.33	137.08	135.28	135.00	134.80	134.75	134.66	
5	134.92	135.19	135.58	138.32	137.28	139.59	137.04	135.29	134.96	134.80	134.74	134.65	
6	134.92	135.55	135.45	139.10	136.98	138.68	137.07	135.29	134.93	134.79	134.74	134.65	
7	134.92	135.60	135.55	139.83	136.65	138.14	136.97	135.32	134.93	134.78	134.72	134.65	
8	134.90	135.51	135.51	140.09	136.49	138.93	136.77	135.32	134.94	134.77	134.72	134.66	
9	134.90	135.34	135.43	140.16	136.39	139.31	136.46	135.33	134.92	134.78	134.73	134.65	
10	134.93	135.22	135.35	139.59	136.36	138.91	136.26	135.29	134.91	134.79	134.73	134.65	
11	134.93	135.19	135.39	140.25	136.54	138.50	136.13	135.25	134.91	134.79	134.72	134.65	
12	134.92	135.26	135.24	139.78	138.41	139.31	135.97	135.24	134.90	134.76	134.73	134.66	
13	134.91	135.17	135.35	139.92	142.18	140.00	135.88	135.22	134.90	134.75	134.73	134.67	
14	134.91	135.13	135.52	139.54	143.10	140.42	135.77	135.20	134.90	134.78	134.73	134.66	
15	134.94	135.14	135.42	139.17	143.60	140.34	135.73	135.19	134.86	134.79	134.74	134.65	
16	135.00	135.21	135.49	138.77	143.14	139.82	135.70	135.20	134.85	134.78	134.72	134.64	
17	135.00	135.29	135.49	138.26	142.64	139.06	135.66	135.14	134.87	134.78	134.71	134.64	
18	134.99	135.39	135.88	137.85	142.49	138.32	135.59	135.13	134.88	134.78	134.71	134.64	
19	134.96	135.41	135.72	137.45	142.39	138.49	135.60	135.11	134.87	134.94	134.72	134.64	
20	134.97	135.35	135.64	137.05	142.05	139.10	135.64	135.14	134.90	134.87	134.71	134.64	
21	134.97	135.38	136.51	138.03	141.68	139.74	135.63	135.12	134.86	134.84	134.70	134.65	
22	134.97	135.30	137.17	138.21	140.68	140.07	135.56	135.10	134.86	134.81	134.72	134.64	
23	135.03	135.23	137.05	137.80	139.41	139.85	135.50	135.08	135.01	134.77	134.71	134.63	
24	135.03	135.17	137.14	137.63	138.85	139.32	135.46	135.08	134.90	134.77	134.70	134.63	
25	134.99	135.16	137.06	137.59	139.42	138.67	135.44	135.07	134.86	134.95	134.68	134.63	
26	134.97	135.16	136.76	137.24	140.56	138.20	135.40	135.05	134.86	134.73	134.68	134.62	
27	134.95	135.39	136.60	137.36	140.45	138.48	135.41	135.05	134.86	134.71	134.67	134.61	
28	134.93	135.64	136.56	137.03	140.70	138.97	135.39	135.04	134.84	134.77	134.67	134.62	
29	134.93	135.52	136.56	137.03	138.70	139.48	135.39	135.03	134.84	134.76		134.62	
30	134.95	135.51	136.53	137.46	138.04	139.60	135.32	135.01	134.82	134.74		134.62	
31		135.40		137.61	138.09		135.38		134.83	134.72		134.62	
MEAN	134.95	135.29	135.94	138.32	139.49	139.27	136.15	135.19	134.90	134.79	134.72	134.64	
MAX	135.03	135.64	137.17	140.25	143.60	140.48	139.20	135.35	135.03	134.95	134.76	134.67	143.60
MIN	134.90	134.98	135.24	136.53	136.36	138.14	135.32	135.01	134.82	134.71	134.67	134.61	134.61

ANNUAL MAX MOMENTARY GAGE HEIGHT — 143.69 M (MSL), AT 3.00 HOURS, ON AUG 15, 1978

ZERO GAGE AT BOTTOM ELEVATION — 133.96 M (MSL), RIVER BED — 134.56 M (MSL)

LEFT BANK ELEVATION — 143.48 M (MSL)

RIGHT BANK ELEVATION — 142.46 M (MSL), DRAINAGE AREA — 2599 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.00	3.36	10.00	33.18	69.12	90.36	122.40	8.40	3.72	2.16	1.44	1.02	
2	2.76	4.32	11.76	54.74	69.84	140.80	96.12	8.40	3.60	1.92	1.56	0.96	
3	2.76	4.80	11.28	85.32	75.24	175.04	72.36	7.92	3.96	1.80	1.38	0.90	
4	2.64	4.80	12.24	74.16	65.06	167.56	49.57	7.28	3.60	1.80	1.50	0.96	
5	2.64	5.88	12.08	90.72	55.65	137.60	48.36	7.44	3.12	1.80	1.44	0.90	
6	2.64	11.60	10.00	118.80	46.54	103.68	49.27	7.44	2.76	1.74	1.44	0.90	
7	2.64	12.40	11.60	147.20	36.52	84.24	46.23	7.92	2.76	1.68	1.32	0.90	
8	2.40	10.96	10.96	157.60	32.14	112.68	40.16	7.92	2.88	1.62	1.32	0.96	
9	2.40	8.24	9.68	160.40	29.56	126.40	31.36	8.08	2.64	1.68	1.38	0.90	
10	2.76	6.32	8.40	137.60	28.84	111.96	26.44	7.44	2.52	1.74	1.38	0.90	
11	2.76	5.88	9.04	164.00	33.44	97.20	23.46	6.80	2.52	1.74	1.32	0.90	
12	2.64	6.96	6.64	145.20	93.96	126.40	19.94	6.64	2.40	1.56	1.38	0.96	
13	2.52	5.64	8.40	150.80	275.98	154.00	17.96	6.32	2.40	1.50	1.38	1.02	
14	2.52	5.16	11.12	135.60	417.60	172.16	15.54	6.00	2.40	1.68	1.38	0.96	
15	2.88	5.28	9.52	121.32	588.40	168.08	14.66	5.88	2.16	1.74	1.44	0.90	
16	3.60	6.16	10.64	106.92	428.72	146.80	14.00	6.00	2.10	1.68	1.32	0.84	
17	3.60	7.44	10.64	88.56	327.52	117.36	13.36	5.28	2.22	1.68	1.26	0.84	
18	3.48	9.04	17.96	73.80	307.44	90.72	12.24	5.16	2.28	1.68	1.26	0.84	
19	3.12	9.36	14.44	60.81	295.96	96.84	12.40	4.92	2.22	2.88	1.32	0.84	
20	3.24	8.40	13.04	48.66	265.85	118.80	13.04	5.28	2.40	2.22	1.26	0.84	
21	3.24	8.88	32.66	80.28	240.04	143.60	12.88	5.04	2.16	2.04	1.20	0.90	
22	3.24	7.60	52.31	86.76	184.64	156.80	11.76	4.80	2.16	1.86	1.32	0.84	
23	3.96	6.48	48.66	72.00	130.40	148.00	10.80	4.56	3.72	1.62	1.26	0.78	
24	3.96	5.64	51.40	66.27	109.80	126.80	10.16	4.56	2.40	1.62	1.20	0.78	
25	3.48	5.52	48.97	65.06	130.80	103.32	9.84	4.44	2.16	3.00	1.08	0.78	
26	3.24	5.52	39.86	54.43	178.88	86.40	9.20	4.20	2.16	1.38	1.08	0.72	
27	3.00	9.04	35.00	58.08	173.60	96.48	9.36	4.20	2.16	1.26	1.02	0.66	
28	2.76	13.04	33.96	48.06	185.60	114.12	9.04	4.08	2.04	1.62	1.02	0.72	
29	2.76	11.12	33.96	48.06	104.40	133.20	9.04	3.96	2.04	1.56		0.72	
30	3.00	10.96	33.18	61.11	80.64	138.00	7.92	3.72	1.92	1.44		0.72	
31		9.20		65.67	82.44		8.88		1.98	1.32		0.72	
TOTAL	89.64	235.00	629.40	2861.16	5144.62	3785.40	847.75	180.08	79.56	55.02	36.66	26.58	13970.85 CMSDAY
MEAN	2.99	7.58	20.98	92.30	165.96	126.18	27.35	6.00	2.57	1.77	1.31	0.86	38.28 CMS
MAX	3.96	13.04	52.31	164.00	588.40	175.04	122.40	8.40	3.96	3.00	1.56	1.02	588.40 CMS
MIN	2.40	3.36	6.64	33.18	28.84	84.24	7.92	3.72	1.92	1.26	1.02	0.66	0.66 CMS
RUNOFF	7.745	20.304	54.380	247.205	444.495	327.058	73.245	15.559	6.874	4.754	3.167	2.297	1207.082 MCM

MOMENTARY PEAK 628.00 CMS, AT 143.69 M (MSL), AT 3.00 HOURS, ON AUG 15, 1978
RUNOFF YIELD 14.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 241.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

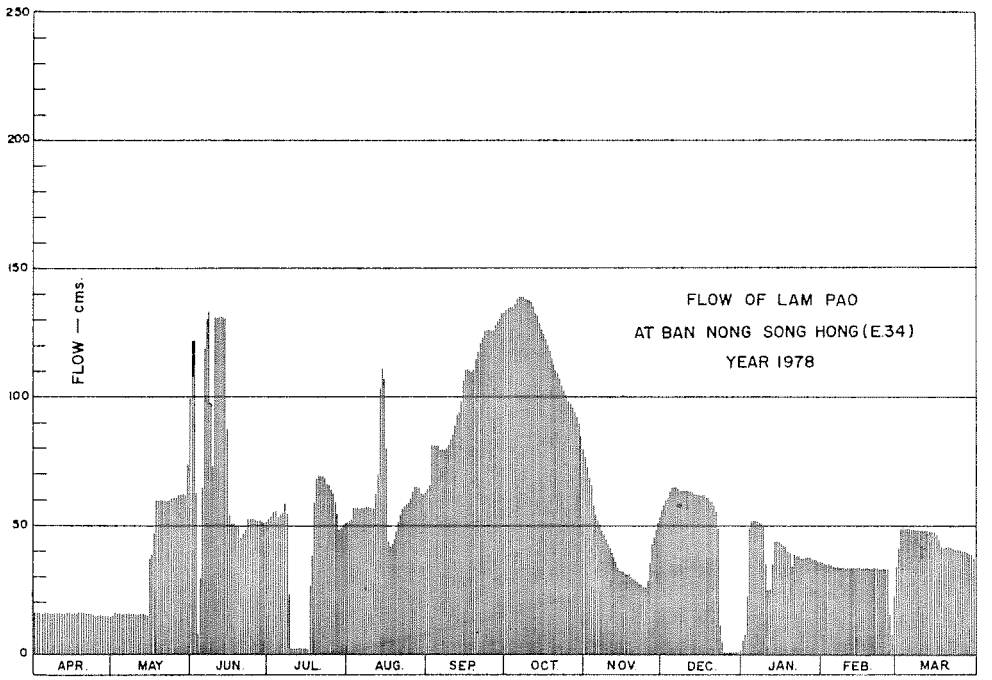
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMEMENTS MADE IN 1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	139.82	139.79	141.82	140.66	140.65	140.92	141.99	141.07	140.78	139.49	140.32	140.40	
2	139.82	139.82	141.82	140.71	140.67	141.20	142.00	140.97	140.81	139.80	140.30	140.60	
3	139.82	139.82	139.50	140.74	140.75	141.18	142.00	140.87	140.86	140.60	140.30	140.62	
4	139.82	139.81	140.15	140.68	140.75	141.18	142.01	140.77	140.90	140.65	140.30	140.60	
5	139.82	139.81	140.90	140.70	140.75	141.17	142.05	140.69	140.90	140.65	140.29	140.60	
6	139.82	139.81	141.80	140.72	140.76	141.16	142.06	140.64	140.90	140.65	140.29	140.60	
7	139.82	139.81	141.98	140.78	140.76	141.15	142.06	140.59	140.89	140.64	140.29	140.60	
8	139.82	139.81	141.98	140.50	140.76	141.16	142.06	140.54	140.89	140.63	140.28	140.59	
9	139.82	139.81	141.04	139.25	140.76	141.21	142.05	140.49	140.89	140.61	140.28	140.59	
10	139.81	139.81	141.95	139.25	140.75	141.26	142.04	140.44	140.89	140.07	140.28	140.59	
11	139.81	139.82	141.95	139.25	140.75	141.32	142.03	140.39	140.88	140.06	140.28	140.59	
12	139.80	139.82	141.95	139.22	141.00	141.39	142.00	140.34	140.87	140.28	140.28	140.59	
13	139.80	139.82	141.95	139.26	141.54	141.47	141.96	140.29	140.85	140.50	140.28	140.58	
14	139.80	140.07	141.94	139.25	141.65	141.57	141.92	140.25	140.85	140.49	140.28	140.58	
15	139.80	140.35	140.81	139.25	141.60	141.65	141.88	140.24	140.84	140.49	140.28	140.57	
16	139.80	140.38	140.63	139.24	140.49	141.66	141.84	140.23	140.84	140.48	140.28	140.54	
17	139.80	140.55	140.63	140.10	140.45	141.64	141.80	140.22	140.84	140.47	140.28	140.49	
18	139.80	140.80	140.62	140.77	140.47	141.64	141.76	140.21	140.83	140.45	140.27	140.46	
19	139.80	140.80	140.60	140.95	140.56	141.71	141.72	140.18	140.82	140.40	140.27	140.46	
20	139.80	140.80	140.51	140.98	140.63	141.76	141.68	140.16	140.80	140.29	140.27	140.45	
21	139.80	140.80	140.56	140.98	140.71	141.81	141.64	140.14	140.78	140.39	140.27	140.45	
22	139.80	140.80	140.61	140.98	140.75	141.85	141.60	140.12	140.73	140.38	140.27	140.45	
23	139.80	140.80	140.67	140.93	140.77	141.87	141.56	140.10	140.60	140.38	140.27	140.44	
24	139.79	140.82	140.67	140.90	140.79	141.88	141.52	140.08	139.65	140.37	140.27	140.44	
25	139.79	140.83	140.65	140.88	140.83	141.87	141.48	140.15	139.04	140.37	140.27	140.44	
26	139.79	140.83	140.65	140.86	140.90	141.87	141.44	140.46	139.01	140.37	140.25	140.43	
27	139.79	140.84	140.65	140.75	140.92	141.90	141.40	140.52	139.05	140.37	139.80	140.42	
28	139.79	140.85	140.65	140.60	140.90	141.93	141.36	140.58	139.07	140.35	139.50	140.41	
29	139.79	140.85	140.64	140.60	140.87	141.95	141.32	140.66	139.10	140.34		140.41	
30	139.79	140.95	140.64	140.62	140.85	141.98	141.25	140.72	139.12	140.34		140.40	
31		141.25		140.65	140.86		141.15		139.15	140.33		140.10	
MEAN	139.80	140.35	141.03	140.35	140.83	141.54	141.76	140.44	140.40	140.38	140.24	140.50	
MAX	139.82	141.25	141.98	140.98	141.65	141.98	142.06	141.07	140.90	140.65	140.32	140.62	142.06
MIN	139.79	139.79	139.50	139.22	140.45	140.92	141.15	140.08	139.01	139.49	139.50	140.10	139.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 142.25 M (MSL), AT 18.00 HOURS, ON APR 31, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.76	14.79	121.68	51.72	51.20	65.52	133.50	73.92	58.04	6.59	35.20	38.80	
2	15.76	15.76	121.68	54.33	52.24	81.40	134.20	68.32	59.63	15.10	34.30	48.60	
3	15.76	15.76	6.80	55.92	56.45	80.24	134.20	62.81	62.28	48.60	34.30	49.64	
4	15.76	15.43	28.10	52.76	56.45	80.24	134.92	57.51	64.40	51.20	34.30	48.60	
5	15.76	15.43	64.40	53.80	56.45	79.66	137.80	53.28	64.40	51.20	33.88	48.60	
6	15.76	15.43	120.30	54.86	56.98	79.08	138.52	50.68	64.40	51.20	33.88	48.60	
7	15.76	15.43	132.80	58.04	56.98	78.50	138.52	48.10	63.87	50.68	33.88	48.60	
8	15.76	15.43	132.80	43.60	56.98	79.08	138.52	45.60	63.87	50.16	33.46	48.10	
9	15.76	15.43	72.24	2.00	56.98	82.00	137.80	43.12	63.87	49.12	33.46	48.10	
10	15.43	15.43	130.70	2.00	56.45	85.00	137.08	40.72	63.87	24.90	33.46	48.10	
11	15.43	15.76	130.70	2.00	56.45	88.60	136.36	38.35	63.34	24.50	33.46	48.10	
12	15.10	15.76	130.70	1.52	70.00	92.80	134.20	36.10	62.81	33.46	33.46	48.10	
13	15.10	15.76	130.70	2.16	102.52	97.88	131.40	33.88	61.75	43.60	33.46	47.60	
14	15.10	24.90	130.00	2.00	110.00	104.56	128.60	32.20	61.75	43.12	33.46	47.60	
15	15.10	36.55	59.63	2.00	106.60	110.00	125.82	31.78	61.22	43.12	33.46	47.10	
16	15.10	37.90	50.16	1.84	43.12	110.68	123.06	31.36	61.22	42.64	33.46	45.60	
17	15.10	46.10	50.16	26.10	41.20	109.32	120.30	30.94	61.22	42.16	33.46	43.12	
18	15.10	59.10	49.64	57.51	42.16	109.32	117.54	30.52	60.69	41.20	33.04	41.68	
19	15.10	59.10	48.60	67.20	46.60	114.09	114.78	29.30	60.16	38.80	33.04	41.68	
20	15.10	59.10	44.10	68.88	50.16	117.54	112.04	28.50	59.10	33.88	33.04	41.20	
21	15.10	59.10	46.60	68.88	54.33	120.99	109.32	27.70	58.04	38.35	33.04	41.20	
22	15.10	59.10	49.12	68.88	56.45	123.75	106.60	26.90	55.39	37.90	33.04	41.20	
23	15.10	59.10	52.24	66.08	57.51	125.13	103.88	26.10	48.60	37.90	33.04	40.72	
24	14.79	60.16	52.24	64.40	58.57	125.82	101.16	25.30	10.65	37.45	33.04	40.72	
25	14.79	60.69	51.20	63.34	60.69	125.13	98.52	28.10	0.00	37.45	33.04	40.72	
26	14.79	60.69	51.20	62.28	64.40	125.13	95.96	41.68	0.00	37.45	32.20	40.24	
27	14.79	61.22	51.20	56.45	65.52	127.20	93.40	44.60	0.00	37.45	15.10	39.76	
28	14.79	61.75	51.20	48.60	64.40	129.30	91.00	47.60	0.00	36.55	6.80	39.28	
29	14.79	61.75	50.68	48.60	62.81	130.70	88.60	51.72	0.00	36.10		39.28	
30	14.79	67.20	50.68	49.64	61.75	132.80	84.40	54.86	0.24	36.10		38.80	
31		84.40		51.20	62.28		78.50		0.60	35.65		26.10	
TOTAL	457.43	1219.51	2262.25	1308.59	1894.68	3111.46	3660.50	1241.55	1415.41	1193.58	892.76	1355.54	20013.23 CMSDAY
MEAN	15.25	39.34	75.41	42.21	61.12	103.72	118.08	41.38	45.66	38.50	31.88	43.73	54.83 CMS
MAX	15.76	84.40	132.80	68.88	110.00	132.80	138.52	73.92	64.40	51.20	35.20	49.64	138.52 CMS
MIN	14.79	14.79	6.80	1.52	41.20	65.52	78.50	25.30	0.00	6.59	6.80	26.10	0.00 CMS
RUNOFF	39.522	105.366	195.458	113.062	163.700	268.830	316.267	107.270	122.291	103.125	77.134	117.118	1729.143 MCM

MOMENTARY PEAK 152.65 CMS, AT 142.25 M (MSL), AT 18.00 HOURS, ON APR 31, 1978

RUNOFF YIELD 9.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 27.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

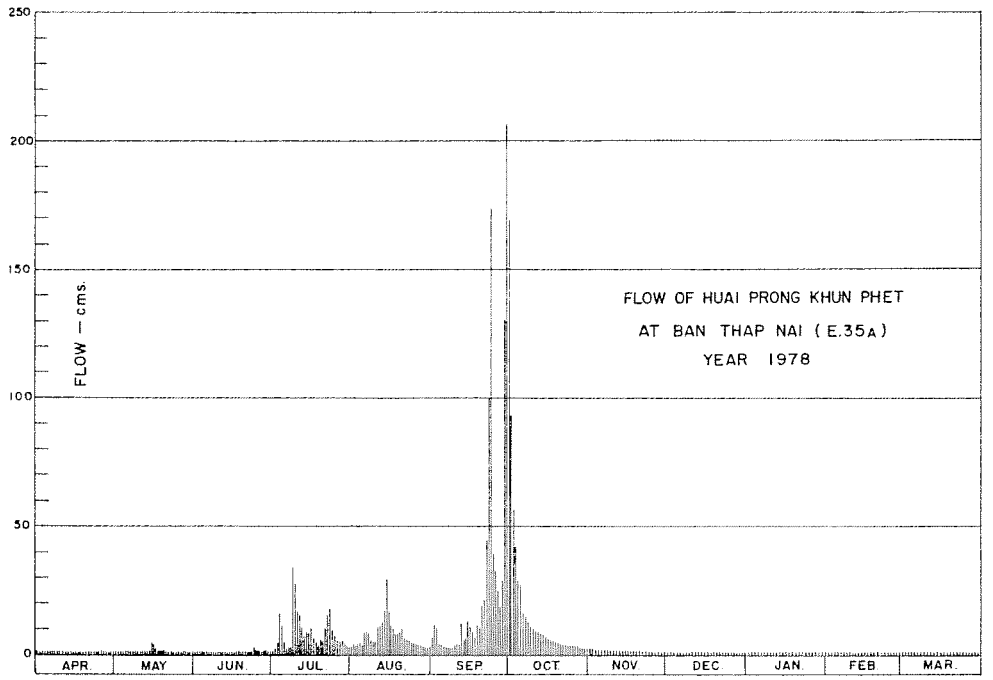
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +218.56 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 231 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	211.62	212.06	212.21	212.36	212.97	213.40	219.80	212.74	212.32	212.14	212.08	212.08	
2	211.61	212.05	212.24	212.78	212.97	213.74	217.91	212.72	212.31	212.13	212.08	212.08	
3	211.59	212.12	212.20	213.04	212.90	213.16	216.18	212.69	212.30	212.12	212.08	212.08	
4	211.57	212.11	212.16	214.07	213.04	213.00	215.04	212.68	212.29	212.12	212.08	212.08	
5	211.55	212.08	212.13	213.38	212.92	212.92	214.51	212.67	212.28	212.12	212.08	212.08	
6	211.53	212.41	212.37	212.94	213.54	212.86	214.27	212.65	212.27	212.11	212.08	212.08	
7	211.65	212.52	212.36	212.73	213.54	212.82	214.10	212.65	212.26	212.11	212.08	212.07	
8	211.66	212.39	212.27	212.88	213.36	212.80	213.95	212.66	212.25	212.15	212.08	212.07	
9	211.66	212.30	212.19	215.29	213.16	212.76	213.80	212.63	212.25	212.18	212.07	212.06	
10	211.65	212.21	212.16	214.93	213.14	213.09	213.71	212.61	212.24	212.18	212.08	212.06	
11	211.65	212.27	212.13	214.13	213.81	212.93	213.61	212.59	212.23	212.13	212.08	212.06	
12	211.64	212.43	212.16	213.95	213.78	213.88	213.55	212.57	212.22	212.13	212.08	212.06	
13	212.23	212.26	212.12	213.38	214.26	213.25	213.51	212.56	212.21	212.12	212.09	212.05	
14	212.09	212.23	212.11	213.55	215.04	213.33	213.42	212.54	212.21	212.12	212.09	212.04	
15	212.08	213.04	212.11	213.50	214.30	213.89	213.34	212.52	212.20	212.11	212.09	212.04	
16	212.07	212.99	212.19	213.72	213.81	213.68	213.30	212.51	212.19	212.11	212.08	212.02	
17	212.07	212.67	212.16	213.37	213.60	213.35	213.24	212.48	212.19	212.11	212.08	212.00	
18	212.07	212.61	212.66	213.05	213.43	213.79	213.19	212.47	212.18	212.11	212.08	211.99	
19	212.08	212.65	212.33	212.90	213.52	213.73	213.14	212.45	212.18	212.11	212.08	211.99	
20	212.06	212.61	212.20	213.22	213.60	214.37	213.10	212.43	212.17	212.10	212.08	211.99	
21	212.05	212.39	212.13	213.23	213.33	214.53	213.06	212.40	212.17	212.10	212.08	211.97	
22	212.05	212.29	212.10	214.12	213.25	215.85	213.02	212.43	212.16	212.10	212.08	211.97	
23	212.04	212.39	212.12	214.28	213.19	218.18	212.98	212.42	212.16	212.10	212.08	211.95	
24	212.04	212.32	212.81	213.77	213.10	219.91	212.97	212.40	212.16	212.10	212.08	211.95	
25	212.01	212.23	212.48	213.42	213.04	215.56	212.98	212.38	212.15	212.10	212.08	211.94	
26	212.01	212.18	212.33	213.22	212.98	214.84	212.96	212.37	212.15	212.10	212.08	211.94	
27	212.04	212.26	212.35	213.16	212.96	214.34	212.91	212.36	212.15	212.09	212.08	211.94	
28	212.04	212.22	212.49	213.19	212.92	215.07	212.86	212.35	212.15	212.09	212.08	211.93	
29	212.05	212.30	212.47	213.08	212.86	217.49	212.82	212.34	212.15	212.09		211.93	
30	212.06	212.27	212.43	212.97	212.82	220.43	212.78	212.33	212.15	212.09		211.91	
31		212.24		212.88	212.80		212.75		212.14	212.09		211.90	
MEAN	211.88	212.36	212.27	213.43	213.35	214.43	213.83	212.52	212.21	212.11	212.08	212.01	
MAX	212.23	213.04	212.81	215.29	215.04	220.43	219.80	212.74	212.32	212.18	212.09	212.08	220.43
MIN	211.53	212.05	212.10	212.36	212.80	212.76	212.75	212.33	212.14	212.09	212.07	211.90	211.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 221.51 M (MSL), AT 2.00 HOURS, ON SEP 24, 1978
ZERO GAGE AT BOTTOM ELEVATION 211.00 M (MSL), RIVER BED 211.53 M (MSL)
LEFT BANK ELEVATION 219.45 M (MSL)
RIGHT BANK ELEVATION 218.55 M (MSL), DRAINAGE AREA 422 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.12	0.42	0.72	3.59	7.00	167.60	2.20	0.64	0.28	0.16	0.16	
2	0.00	0.10	0.48	2.40	3.59	10.68	93.50	2.10	0.62	0.26	0.16	0.16	
3	0.00	0.24	0.40	4.08	3.10	4.98	50.28	1.95	0.60	0.24	0.16	0.16	
4	0.00	0.22	0.32	14.81	4.08	3.80	29.04	1.90	0.58	0.24	0.16	0.16	
5	0.00	0.16	0.26	6.82	3.24	3.24	20.95	1.85	0.56	0.24	0.16	0.16	
6	0.00	0.83	0.74	3.38	8.44	2.86	17.58	1.75	0.54	0.22	0.16	0.16	
7	0.00	1.18	0.72	2.15	8.44	2.62	15.20	1.75	0.52	0.22	0.16	0.14	
8	0.00	0.78	0.54	2.98	6.64	2.50	13.25	1.80	0.50	0.30	0.16	0.14	
9	0.00	0.60	0.38	33.32	4.98	2.30	11.40	1.65	0.50	0.36	0.14	0.12	
10	0.00	0.42	0.32	27.28	4.82	4.43	10.32	1.55	0.48	0.36	0.16	0.12	
11	0.00	0.54	0.26	15.62	11.52	3.31	9.21	1.46	0.46	0.26	0.16	0.12	
12	0.00	0.89	0.32	13.25	11.16	12.36	8.55	1.38	0.44	0.26	0.16	0.12	
13	0.46	0.52	0.24	6.82	17.44	5.70	8.11	1.34	0.42	0.24	0.18	0.10	
14	0.18	0.46	0.22	8.55	29.04	6.37	7.20	1.26	0.42	0.24	0.18	0.08	
15	0.16	4.08	0.22	8.00	18.00	12.48	6.46	1.18	0.40	0.22	0.18	0.08	
16	0.14	3.73	0.38	10.44	11.52	9.98	6.10	1.14	0.38	0.22	0.16	0.04	
17	0.14	1.85	0.32	6.73	9.10	6.55	5.62	1.04	0.38	0.22	0.16	0.00	
18	0.14	1.55	1.80	4.15	7.30	11.28	5.22	1.01	0.36	0.22	0.16	0.00	
19	0.16	1.75	0.66	3.10	8.22	10.56	4.82	0.95	0.36	0.22	0.16	0.00	
20	0.12	1.55	0.40	5.46	9.10	18.98	4.50	0.89	0.34	0.20	0.16	0.00	
21	0.10	0.78	0.26	5.54	6.37	21.25	4.22	0.80	0.34	0.20	0.16	0.00	
22	0.10	0.58	0.20	15.48	5.70	43.65	3.94	0.89	0.32	0.20	0.16	0.00	
23	0.08	0.78	0.24	17.72	5.22	101.86	3.66	0.86	0.32	0.20	0.16	0.00	
24	0.08	0.64	2.56	11.04	4.50	173.10	3.59	0.80	0.32	0.20	0.16	0.00	
25	0.02	0.46	1.04	7.20	4.08	38.18	3.66	0.76	0.30	0.20	0.16	0.00	
26	0.02	0.36	0.66	5.46	3.66	25.90	3.52	0.74	0.30	0.20	0.16	0.00	
27	0.08	0.52	0.70	4.98	3.52	18.56	3.17	0.72	0.30	0.18	0.16	0.00	
28	0.08	0.44	1.07	5.22	3.24	29.52	2.86	0.70	0.30	0.18	0.16	0.00	
29	0.10	0.60	1.01	4.36	2.86	81.54	2.62	0.68	0.30	0.18		0.00	
30	0.12	0.54	0.89	3.59	2.62	203.10	2.40	0.66	0.30	0.18		0.00	
31		0.48		2.98	2.50		2.25		0.28	0.18		0.00	
TOTAL	2.28	27.75	18.03	263.63	227.59	878.64	530.80	37.76	12.88	7.12	4.52	2.02	2013.02 CMSDAY
MEAN	0.08	0.90	0.60	8.50	7.34	29.29	17.12	1.26	0.42	0.23	0.16	0.07	5.52 CMS
MAX	0.46	4.08	2.56	33.32	29.04	203.10	167.60	2.20	0.64	0.36	0.18	0.16	203.10 CMS
MIN	0.00	0.10	0.20	0.72	2.50	2.30	2.25	0.66	0.28	0.18	0.14	0.00	0.00 CMS
RUNOFF	0.197	2.398	1.558	22.778	19.664	75.914	45.861	3.262	1.113	0.615	0.391	0.175	173.925 MCM

MOMENTARY PEAK 305.20 CMS, AT 221.51 M (MSL), AT 2.00 HOURS, ON SEP 24, 1978

RUNOFF YIELD 13.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 723.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 1970 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972 TO DATE.

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 187 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

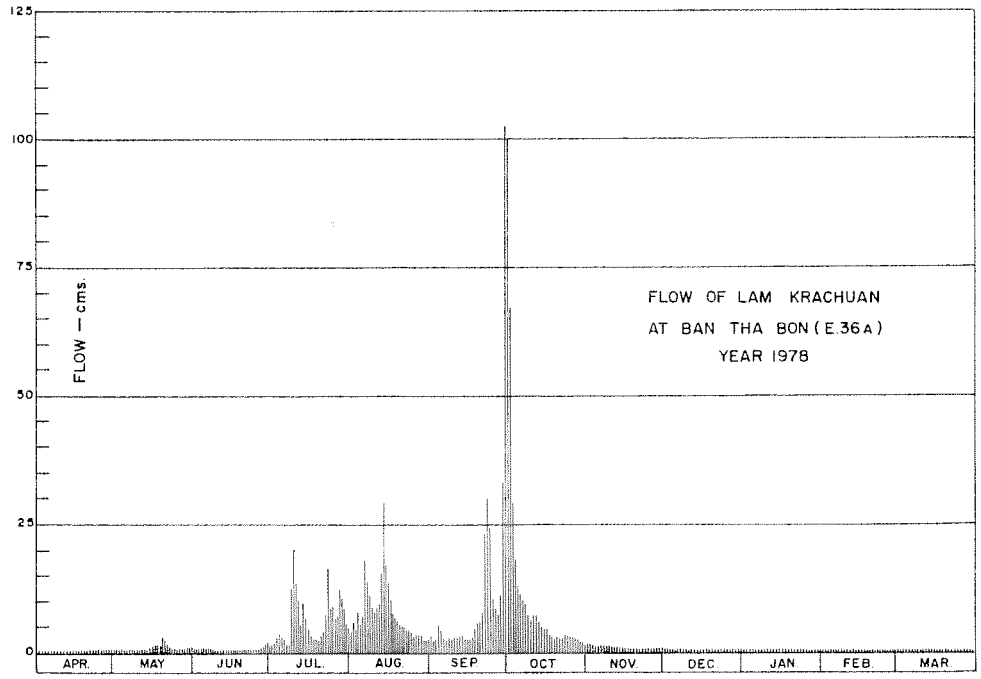
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.06	1.14	3.04	3.51	7.20	8.10	9.66	2.12	1.51	1.26	1.07	0.94	
2	1.06	1.27	2.55	3.31	7.66	8.00	10.62	2.09	1.49	1.22	1.08	0.94	
3	1.03	1.36	2.33	5.03	7.15	6.16	8.66	2.02	1.51	1.22	1.06	0.92	
4	1.03	1.36	2.24	3.91	6.05	6.63	5.70	2.02	1.46	1.21	1.06	0.92	
5	1.09	1.35	2.49	3.43	5.28	5.45	5.13	2.00	1.44	1.21	1.05	0.90	
6	1.04	1.30	3.27	3.12	5.62	4.81	4.84	1.97	1.42	1.20	1.05	0.90	
7	1.06	1.80	3.17	2.94	4.90	4.74	4.49	2.08	1.44	1.19	1.06	0.90	
8	1.01	1.50	2.61	2.90	5.18	4.35	4.08	1.97	1.43	1.17	1.07	0.90	
9	1.00	1.50	2.48	3.99	8.67	4.13	3.84	1.90	1.42	1.18	1.03	0.90	
10	0.94	1.36	3.16	3.82	8.26	4.00	3.46	1.87	1.40	1.26	1.03	0.90	
11	0.99	1.72	2.78	3.14	8.98	3.82	3.66	1.87	1.40	1.24	1.04	0.90	
12	1.00	1.68	2.96	2.95	8.14	4.81	3.23	1.83	1.38	1.22	1.02	0.89	
13	1.06	1.64	2.75	4.14	7.97	6.87	3.08	1.81	1.37	1.20	1.02	0.88	
14	1.27	1.52	2.76	3.74	6.04	5.02	2.92	1.79	1.34	1.21	1.01	0.87	
15	1.25	1.74	2.59	3.61	4.97	4.94	2.79	1.75	1.36	1.21	1.03	0.86	
16	1.26	1.70	2.85	3.30	4.47	6.49	2.68	1.72	1.34	1.23	1.11	0.85	
17	1.21	1.70	3.41	3.09	6.67	7.10	2.60	1.71	1.33	1.19	1.12	0.82	
18	1.47	1.75	5.64	2.90	10.39	9.02	2.54	1.73	1.33	1.17	1.08	0.83	
19	1.36	2.54	3.86	3.04	8.41	6.22	2.85	1.63	1.33	1.17	1.07	0.83	
20	1.27	2.73	3.84	3.48	5.71	5.16	4.84	1.64	1.33	1.15	1.05	0.82	
21	1.29	2.00	3.17	3.02	5.44	6.76	4.00	1.64	1.32	1.16	1.04	0.80	
22	1.17	1.81	4.11	7.98	4.90	5.42	3.04	1.63	1.30	1.14	0.99	0.79	
23	1.08	1.77	6.48	9.17	7.59	4.47	2.76	1.59	1.29	1.13	0.99	0.85	
24	1.31	1.72	5.08	6.96	5.64	4.41	2.60	1.59	1.28	1.12	0.97	0.90	
25	1.17	3.01	3.93	5.72	5.11	4.01	2.65	1.58	1.28	1.11	0.95	0.91	
26	1.18	2.55	6.24	5.32	6.00	4.27	2.46	1.57	1.28	1.12	0.95	0.91	
27	1.20	4.10	5.33	4.80	8.40	4.72	2.63	1.56	1.27	1.13	0.95	0.88	
28	1.20	5.91	6.76	5.73	6.02	5.28	2.83	1.55	1.26	1.12	0.95	0.88	
29	1.04	4.09	4.75	5.19	4.97	4.81	2.39	1.53	1.26	1.11		0.85	
30	1.15	4.02	4.30	4.73	5.29	6.67	2.23	1.50	1.25	1.12		0.81	
31		3.28		6.53	4.62		2.16		1.23	1.09		0.85	
MEAN	1.14	2.16	3.70	4.34	6.51	5.55	3.92	1.78	1.36	1.18	1.03	0.87	
MAX	1.47	5.91	6.76	9.17	10.39	9.02	10.62	2.12	1.51	1.26	1.12	0.94	10.62
MIN	0.94	1.14	2.24	2.90	4.47	3.82	2.16	1.50	1.23	1.09	0.95	0.79	0.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.73 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.10 M (A.D)

LEFT BANK ELEVATION 12.40 M (A.D)

RIGHT BANK ELEVATION 11.30 M (A.D), DRAINAGE AREA 920 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.13	0.50	0.98	3.61	2.80	98.73	1.68	0.59	0.18	0.18	0.01	
2	0.00	0.11	0.44	1.40	5.28	2.24	66.96	1.47	0.56	0.17	0.17	0.01	
3	0.00	0.09	0.44	1.61	3.92	2.98	28.80	1.40	0.53	0.17	0.17	0.01	
4	0.00	0.07	0.53	2.59	6.72	4.92	17.84	1.28	0.47	0.17	0.16	0.01	
5	0.00	0.05	0.44	3.25	4.47	4.03	12.60	1.22	0.44	0.17	0.16	0.00	
6	0.00	0.06	0.38	2.45	8.92	2.80	11.25	1.28	0.44	0.17	0.16	0.00	
7	0.00	0.18	0.35	1.47	16.99	2.45	10.12	1.28	0.41	0.17	0.16	0.00	
8	0.00	0.13	0.35	1.40	10.96	2.59	8.66	1.34	0.41	0.20	0.16	0.00	
9	0.00	0.10	0.35	17.50	8.66	2.38	7.32	1.22	0.41	0.35	0.15	0.00	
10	0.00	0.07	0.32	19.71	6.72	2.73	6.72	1.10	0.38	0.50	0.14	0.01	
11	0.00	0.07	0.29	12.60	7.08	2.98	7.08	1.10	0.35	0.47	0.13	0.00	
12	0.00	0.05	0.29	9.44	9.31	2.80	7.20	0.98	0.35	0.32	0.14	0.00	
13	0.00	0.11	0.29	5.40	15.48	3.25	6.00	0.86	0.35	0.26	0.15	0.00	
14	0.00	0.38	0.26	9.31	29.20	2.59	5.16	0.80	0.32	0.20	0.15	0.00	
15	0.00	0.62	0.20	6.00	15.00	2.73	4.47	0.77	0.32	0.19	0.13	0.00	
16	0.00	1.28	0.32	3.92	9.70	2.45	4.03	0.74	0.29	0.18	0.13	0.00	
17	0.00	1.34	0.35	2.73	7.80	2.66	3.61	0.71	0.29	0.18	0.13	0.00	
18	0.00	1.28	0.23	2.24	6.72	4.36	3.43	0.71	0.26	0.18	0.12	0.00	
19	0.00	1.04	0.20	1.89	5.76	5.88	3.25	0.71	0.26	0.18	0.11	0.00	
20	0.00	2.98	0.19	1.89	4.92	5.88	3.07	0.68	0.26	0.17	0.09	0.00	
21	0.00	1.96	0.19	3.07	4.47	8.04	2.80	0.62	0.23	0.17	0.07	0.00	
22	0.00	0.98	0.18	6.96	4.25	16.31	2.66	0.62	0.20	0.16	0.06	0.00	
23	0.07	0.65	0.20	15.97	3.81	30.20	3.25	0.62	0.20	0.16	0.05	0.00	
24	0.59	0.50	0.41	8.66	3.43	24.32	2.66	0.59	0.20	0.16	0.03	0.00	
25	0.19	0.44	0.32	8.16	2.98	11.10	2.80	0.59	0.19	0.18	0.03	0.00	
26	0.17	0.38	0.38	5.52	2.89	9.98	2.98	0.59	0.19	0.18	0.02	0.00	
27	0.29	0.59	0.62	6.84	2.80	7.44	2.59	0.56	0.19	0.18	0.01	0.00	
28	0.19	0.53	0.86	10.82	2.66	11.25	2.24	0.53	0.20	0.18	0.01	0.00	
29	0.17	0.56	1.89	8.40	2.38	38.40	2.03	0.53	0.20	0.18		0.00	
30	0.15	0.65	1.68	5.40	2.38	102.60	1.89	0.56	0.19	0.18		0.00	
31		0.59		4.25	2.31		1.75		0.18	0.17		0.00	
TOTAL	1.82	17.97	13.45	191.83	221.58	325.14	343.95	27.14	9.86	6.48	3.17	0.05	1162.44 CMSDAY
MEAN	0.06	0.58	0.45	6.19	7.15	10.84	11.10	0.90	0.32	0.21	0.11	0.00	3.18 CMS
MAX	0.59	2.98	1.89	19.71	29.20	102.60	98.73	1.68	0.59	0.50	0.18	0.01	102.60 CMS
MIN	0.00	0.05	0.18	0.98	2.31	2.24	1.75	0.53	0.18	0.16	0.01	0.00	0.00 CMS
RUNOFF	0.157	1.553	1.162	16.574	19.144	28.092	29.717	2.345	0.852	0.560	0.274	0.004	100.435 MCM

MOMENTARY PEAK 122.06 CMS, AT 219.09 M (MSL), AT 22.00 HOURS, ON SEP 30, 1978

RUNOFF YIELD 10.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 420.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

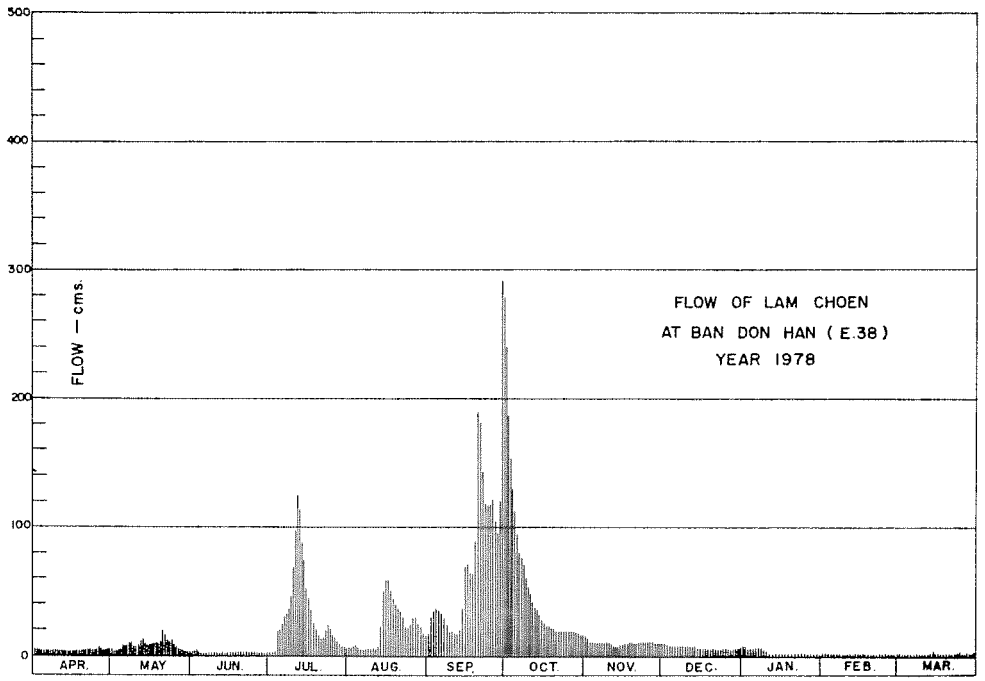
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 201 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.90	213.90	213.76	213.22	214.03	214.75	220.70	214.66	214.29	214.15	213.35	213.56	
2	213.91	213.80	213.82	213.36	214.07	215.55	220.24	214.54	214.29	214.04	213.35	213.65	
3	213.85	213.84	213.87	213.32	214.17	215.88	219.98	214.36	214.22	213.95	213.36	213.31	
4	213.81	213.94	213.68	214.87	214.16	215.84	219.55	214.39	214.18	213.93	213.41	213.28	
5	213.83	214.19	213.20	214.93	213.85	215.84	218.95	214.36	214.16	214.03	213.38	213.25	
6	213.83	214.12	213.25	215.19	213.86	215.67	218.17	214.38	214.15	214.04	213.40	213.23	
7	213.84	214.16	213.27	215.52	213.93	215.52	217.85	214.31	214.16	214.03	213.43	213.24	
8	213.83	214.37	213.27	215.68	213.93	215.14	217.62	214.34	214.16	214.00	213.39	213.25	
9	213.86	214.25	213.27	215.98	213.96	214.91	217.09	214.39	214.16	213.94	213.38	213.28	
10	213.76	214.06	213.25	217.09	213.96	214.83	216.73	214.33	214.14	213.81	213.40	213.26	
11	213.73	214.13	213.23	218.42	213.97	214.82	216.37	214.24	214.12	213.41	213.41	213.28	
12	213.84	214.38	213.23	219.47	214.02	214.72	216.08	214.15	214.18	213.42	213.43	213.27	
13	213.80	214.60	213.23	219.16	214.46	214.98	215.87	214.10	214.15	213.37	213.43	213.53	
14	213.77	214.25	213.21	218.24	216.32	215.91	215.66	214.18	214.07	213.38	213.41	213.80	
15	213.76	214.16	213.23	217.11	216.92	217.52	215.44	214.24	213.97	213.37	213.41	213.67	
16	213.80	214.28	213.21	216.43	217.00	217.54	215.28	214.23	213.96	213.38	213.39	213.30	
17	213.76	214.31	213.30	216.02	216.70	217.36	215.15	214.31	214.00	213.42	213.40	213.27	
18	213.80	214.33	213.24	215.48	216.28	217.27	215.10	214.34	213.96	213.42	213.39	213.27	
19	213.78	214.28	213.26	215.07	216.06	218.35	215.03	214.33	213.93	213.41	213.35	213.34	
20	213.88	214.39	213.30	214.70	215.97	220.20	214.97	214.23	214.01	213.41	213.34	213.50	
21	213.89	214.92	213.28	214.57	215.82	220.13	214.85	214.32	213.98	213.40	213.33	213.32	
22	213.87	214.57	213.26	214.55	215.34	219.76	214.87	214.35	213.95	213.37	213.34	213.35	
23	213.89	214.28	213.27	214.94	215.18	219.34	214.87	214.34	213.97	213.37	213.37	213.58	
24	213.87	214.55	213.24	215.21	215.03	219.32	214.89	214.34	213.97	213.37	213.35	213.67	
25	213.93	214.33	213.21	214.96	215.19	219.35	214.90	214.34	213.98	213.38	213.33	213.68	
26	214.07	214.07	213.22	214.66	215.45	219.42	214.91	214.36	213.98	213.37	213.32	213.48	
27	213.95	213.95	213.23	214.51	215.47	218.94	214.89	214.34	213.92	213.35	213.32	213.49	
28	213.88	213.89	213.26	214.39	215.23	218.81	214.89	214.30	213.90	213.36	213.68	213.28	
29	213.92	213.84	213.22	214.19	214.99	219.40	214.83	214.32	213.95	213.40		213.23	
30	213.95	213.81	213.21	214.05	214.81	220.80	214.78	214.31	213.98	213.38		213.64	
31		213.78		214.01	214.66		214.71		214.00	213.36		213.36	
MEAN	213.85	214.18	213.32	215.46	214.99	217.26	216.30	214.32	214.06	213.58	213.39	213.41	
MAX	214.07	214.92	213.87	219.47	217.00	220.80	220.70	214.66	214.29	214.15	213.68	213.80	220.80
MIN	213.73	213.78	213.20	213.22	213.85	214.72	214.71	214.10	213.90	213.35	213.32	213.23	213.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 221.13 M (MSL), AT 21.00 HOURS, ON SEP 30, 1978
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 220.45 M (MSL), DRAINAGE AREA 1446 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.90	3.90	2.44	0.02	5.39	15.65	269.00	14.16	8.86	6.95	0.15	0.90	
2	4.01	2.80	3.02	0.16	5.91	29.50	194.60	12.36	8.86	5.52	0.15	1.50	
3	3.35	3.24	3.57	0.12	7.21	35.52	162.30	9.84	7.88	4.45	0.16	0.11	
4	2.91	4.34	1.74	17.69	7.08	34.76	127.75	10.26	7.34	4.23	0.24	0.08	
5	3.13	7.47	0.00	18.71	3.35	34.76	103.00	9.84	7.08	5.39	0.18	0.05	
6	3.13	6.56	0.05	23.13	3.68	31.66	82.64	10.12	6.95	5.52	0.20	0.03	
7	3.24	7.08	0.07	28.96	4.23	28.96	75.60	9.14	7.08	5.39	0.32	0.04	
8	3.13	9.98	0.07	31.84	4.23	22.28	70.54	9.56	7.08	5.00	0.19	0.05	
9	3.46	8.30	0.07	37.42	4.56	18.37	59.40	10.26	7.08	4.34	0.18	0.08	
10	2.44	5.78	0.05	59.40	4.56	17.01	52.20	9.42	6.82	2.91	0.20	0.06	
11	2.17	6.69	0.03	88.50	4.67	16.84	45.00	8.16	6.56	0.24	0.24	0.08	
12	3.24	10.12	0.03	123.50	5.26	15.14	39.32	6.95	7.34	0.28	0.32	0.07	
13	2.80	13.20	0.03	110.10	11.24	19.56	35.33	6.30	6.95	0.17	0.32	0.75	
14	2.53	8.30	0.01	84.18	44.00	36.09	31.48	7.34	5.91	0.18	0.24	2.80	
15	2.44	7.08	0.03	59.80	56.00	68.34	27.52	8.16	4.67	0.17	0.24	1.66	
16	2.80	8.72	0.01	46.20	57.60	68.78	24.66	8.02	4.56	0.18	0.19	0.10	
17	2.44	9.14	0.10	38.18	51.60	64.96	22.45	9.14	5.00	0.28	0.20	0.07	
18	2.80	9.42	0.04	28.24	43.20	63.07	21.60	9.56	4.56	0.28	0.19	0.07	
19	2.62	8.72	0.06	21.09	38.94	86.75	20.41	9.42	4.23	0.24	0.15	0.14	
20	3.68	10.26	0.10	14.80	37.23	189.00	19.39	8.02	5.13	0.24	0.14	0.60	
21	3.79	18.54	0.08	12.78	34.38	179.90	17.35	9.28	4.78	0.20	0.13	0.12	
22	3.57	12.78	0.06	12.50	25.72	141.50	17.69	9.70	4.45	0.17	0.14	0.15	
23	3.79	8.72	0.07	18.88	22.96	117.30	17.69	9.56	4.67	0.17	0.17	1.00	
24	3.57	12.50	0.04	23.47	20.41	116.40	18.03	9.56	4.67	0.17	0.15	1.66	
25	4.23	9.42	0.01	19.22	23.13	117.75	18.20	9.56	4.78	0.18	0.13	1.74	
26	5.91	5.91	0.02	14.16	27.70	121.00	18.37	9.84	4.78	0.17	0.12	0.52	
27	4.45	4.45	0.03	11.94	28.06	102.70	18.03	9.56	4.12	0.15	0.12	0.56	
28	3.68	3.79	0.06	10.26	23.81	98.80	18.03	9.00	3.90	0.16	1.74	0.08	
29	4.12	3.24	0.02	7.47	19.73	120.00	17.01	9.28	4.45	0.20		0.03	
30	4.45	2.91	0.01	5.65	16.67	290.00	16.16	9.14	4.78	0.18		1.42	
31		2.62		5.13	14.16		14.97		5.00	0.16		0.16	
TOTAL	101.78	235.98	11.92	973.50	656.67	2302.35	1675.72	280.51	180.32	53.87	6.90	16.68	6496.19 CMSDAY
MEAN	3.39	7.61	0.40	31.40	21.18	76.74	54.06	9.35	5.82	1.74	0.25	0.54	17.80 CMS
MAX	5.91	18.54	3.57	123.50	57.60	290.00	269.00	14.16	8.86	6.95	1.74	2.80	290.00 CMS
MIN	2.17	2.62	0.00	0.02	3.35	15.14	14.97	6.30	3.90	0.15	0.12	0.03	0.00 CMS
RUNOFF	8.794	20.389	1.030	84.110	56.736	198.923	144.782	24.236	15.580	4.654	0.596	1.441	561.271 MCM

MOMENTARY PEAK 392.00 CMS, AT 221.13 M (MSL), AT 21.00 HOURS, ON SEP 30, 1978
RUNOFF YIELD 12.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 271.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

CHI RIVER BASIN

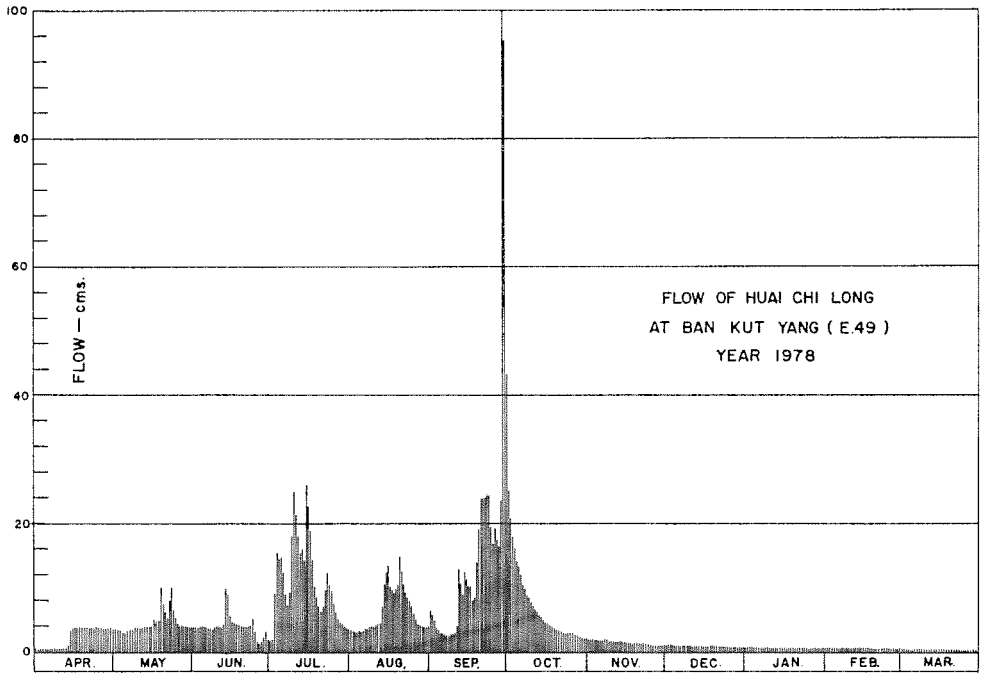
HUAI CHI LONG AT BAN KUT YANG, CHAIYAPHUM (E.49)

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	+196.063 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
LOCATION	IN THE VICINITY OF E.49 STATION OFFICE.
ELEVATION	+205.180 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1970
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1970
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 144 DISCHARGE MEASUREMENTS MADE IN 1970.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.11	200.62	200.72	199.89	200.54	201.37	203.36	200.06	199.65	199.35	199.21	199.21	
2	199.11	200.61	200.71	201.90	200.49	201.03	203.06	200.05	199.64	199.35	199.22	199.21	
3	199.11	200.60	200.71	202.74	200.43	200.71	202.87	200.02	199.68	199.35	199.19	199.21	
4	199.10	200.58	200.72	202.64	200.70	200.54	202.67	200.02	199.67	199.33	199.18	199.21	
5	199.10	200.36	200.70	202.63	200.45	200.43	202.48	199.99	199.65	199.31	199.18	199.22	
6	199.14	200.56	200.69	202.01	200.57	200.35	202.32	199.99	199.63	199.31	199.18	199.23	
7	199.14	200.59	200.69	201.58	200.61	200.31	202.16	200.02	199.61	199.32	199.25	199.24	
8	199.17	200.60	200.69	202.02	200.64	200.29	201.94	200.01	199.61	199.32	199.24	199.24	
9	199.16	200.68	200.69	203.04	200.70	200.40	201.81	199.96	199.61	199.33	199.28	199.24	
10	199.12	200.67	200.77	203.24	200.74	200.41	201.65	199.92	199.60	199.32	199.33	199.25	
11	199.27	200.67	200.77	203.02	200.83	200.85	201.46	199.92	199.52	199.33	199.33	199.22	
12	199.35	200.73	200.72	202.72	200.83	202.47	201.31	199.90	199.52	199.31	199.32	199.19	
13	199.43	200.72	201.40	202.76	201.53	201.99	201.21	199.90	199.50	199.30	199.30	199.17	
14	200.60	200.74	202.10	202.59	202.44	202.43	201.07	199.88	199.49	199.29	199.28	199.17	
15	200.73	200.82	201.06	203.29	202.50	202.20	200.95	199.85	199.49	199.31	199.37	199.16	
16	200.70	201.12	200.91	203.05	202.20	202.11	200.87	199.81	199.47	199.31	199.35	199.15	
17	200.69	201.01	200.85	202.61	202.03	201.78	200.77	199.80	199.48	199.29	199.35	199.14	
18	200.70	200.98	200.81	202.03	202.05	201.93	200.68	199.78	199.47	199.27	199.33	199.14	
19	200.70	202.14	200.81	201.57	202.23	202.97	200.63	199.76	199.44	199.28	199.29	199.13	
20	200.70	201.60	200.78	201.36	202.61	203.23	200.58	199.76	199.42	199.29	199.28	199.13	
21	200.71	201.37	200.78	201.54	202.42	203.23	200.52	199.76	199.43	199.27	199.24	199.13	
22	200.69	200.91	200.77	202.09	202.01	203.25	200.45	199.75	199.45	199.26	199.23	199.13	
23	200.67	201.72	200.77	202.40	201.83	203.25	200.41	199.73	199.43	199.25	199.23	199.12	
24	200.65	201.17	201.00	202.12	201.75	202.99	200.39	199.71	199.39	199.23	199.22	199.11	
25	200.65	200.92	199.98	201.68	201.38	202.83	200.40	199.70	199.37	199.22	199.22	199.11	
26	200.65	200.80	199.83	201.33	201.10	202.98	200.34	199.68	199.35	199.21	199.22	199.09	
27	200.63	200.80	199.69	201.06	200.89	202.80	200.28	199.66	199.36	199.21	199.20	199.09	
28	200.63	200.77	200.16	200.90	200.80	203.21	200.22	199.64	199.35	199.21	199.20	199.07	
29	200.63	200.75	200.46	200.80	200.70	204.01	200.16	199.67	199.35	199.22		199.07	
30	200.63	200.73	200.06	200.69	200.71	203.98	200.11	199.65	199.35	199.24		199.07	
31		200.72		200.60	200.70		200.09		199.35	199.20		199.06	
MEAN	200.02	200.87	200.69	202.00	201.27	202.01	201.20	199.84	199.49	199.28	199.26	199.16	
MAX	200.73	202.14	202.10	203.29	202.61	204.01	203.36	200.06	199.68	199.35	199.37	199.25	204.01
MIN	199.10	200.36	199.69	199.89	200.43	200.29	200.09	199.64	199.35	199.20	199.18	199.06	199.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 204.23 M (MSL), AT 20.00 HOURS, ON SEP 29, 1978
ZERO GAGE AT BOTTOM ELEVATION 196.06 M (MSL), RIVER BED 198.75 M (MSL)
LEFT BANK ELEVATION 203.47 M (MSL)
RIGHT BANK ELEVATION 203.39 M (MSL), DRAINAGE AREA 265 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	3.46	3.76	1.48	3.22	6.13	27.12	1.90	1.00	0.47	0.31	0.31	
2	0.21	3.43	3.73	8.50	3.07	4.81	20.28	1.87	0.98	0.47	0.32	0.31	
3	0.21	3.40	3.73	15.48	2.89	3.73	17.18	1.80	1.06	0.47	0.29	0.31	
4	0.20	3.34	3.76	14.34	3.70	3.22	14.67	1.80	1.04	0.44	0.28	0.31	
5	0.20	2.68	3.70	14.23	2.95	2.89	12.70	1.72	1.00	0.42	0.28	0.32	
6	0.24	3.28	3.67	9.06	3.31	2.65	11.26	1.72	0.96	0.42	0.28	0.33	
7	0.24	3.37	3.67	7.01	3.43	2.53	10.02	1.80	0.92	0.43	0.35	0.34	
8	0.27	3.40	3.67	9.12	3.52	2.47	8.70	1.77	0.92	0.43	0.34	0.34	
9	0.26	3.64	3.67	19.92	3.70	2.80	8.05	1.65	0.92	0.44	0.38	0.34	
10	0.22	3.61	3.91	24.12	3.82	2.83	7.32	1.55	0.90	0.43	0.44	0.35	
11	0.37	3.61	3.91	19.56	4.10	4.17	6.49	1.55	0.74	0.44	0.44	0.32	
12	0.47	3.79	3.76	15.24	4.10	12.60	5.89	1.50	0.74	0.42	0.43	0.29	
13	0.59	3.76	6.25	15.72	6.78	8.95	5.49	1.50	0.70	0.40	0.40	0.27	
14	3.40	3.82	9.60	13.80	12.30	12.20	4.94	1.46	0.68	0.39	0.38	0.27	
15	3.79	4.07	4.91	25.27	12.90	10.30	4.52	1.40	0.68	0.42	0.51	0.26	
16	3.70	5.13	4.38	20.10	10.30	9.67	4.25	1.32	0.65	0.42	0.47	0.25	
17	3.67	4.73	4.17	14.01	9.18	7.91	3.91	1.30	0.67	0.39	0.47	0.24	
18	3.70	4.63	4.04	9.18	9.30	8.65	3.64	1.26	0.65	0.37	0.44	0.24	
19	3.70	9.88	4.04	6.96	10.54	18.72	3.49	1.22	0.61	0.38	0.39	0.23	
20	3.70	7.10	3.94	6.09	14.01	23.89	3.34	1.22	0.58	0.39	0.38	0.23	
21	3.73	6.13	3.94	6.83	12.10	23.89	3.16	1.22	0.59	0.37	0.34	0.23	
22	3.67	4.38	3.91	9.54	9.06	24.35	2.95	1.20	0.62	0.36	0.33	0.23	
23	3.61	7.64	3.91	11.90	8.15	24.35	2.83	1.16	0.59	0.35	0.33	0.22	
24	3.55	5.33	4.70	9.74	7.78	19.04	2.77	1.12	0.53	0.33	0.32	0.21	
25	3.55	4.42	1.70	7.46	6.17	16.62	2.80	1.10	0.51	0.32	0.32	0.21	
26	3.55	4.00	1.36	5.97	5.05	18.88	2.62	1.06	0.47	0.31	0.32	0.19	
27	3.49	4.00	1.08	4.91	4.31	16.20	2.45	1.02	0.49	0.31	0.30	0.19	
28	3.49	3.91	2.15	4.35	4.00	23.43	2.30	0.98	0.47	0.31	0.30	0.17	
29	3.49	3.85	2.98	4.00	3.70	99.60	2.15	1.04	0.47	0.32		0.17	
30	3.49	3.79	1.90	3.67	3.73	94.85	2.02	1.00	0.47	0.34		0.17	
31		3.76		3.40	3.70		1.98		0.47	0.30		0.16	
TOTAL	64.97	135.34	113.90	340.96	194.87	512.33	211.29	42.21	22.08	12.06	10.14	8.01	1668.16 CMSDAY
MEAN	2.17	4.37	3.80	11.00	6.29	17.08	6.82	1.41	0.71	0.39	0.36	0.26	4.57 CMS
MAX	3.79	9.88	9.60	25.27	14.01	99.60	27.12	1.90	1.06	0.47	0.51	0.35	99.60 CMS
MIN	0.20	2.68	1.08	1.48	2.89	2.47	1.98	0.98	0.47	0.30	0.28	0.16	0.16 CMS
RUNOFF	5.613	11.693	9.841	29.459	16.837	44.265	18.255	3.647	1.908	1.042	0.876	0.692	144.129 MCM

MOMENTARY PEAK 134.42 CMS, AT 204.23 M (MSL), AT 20.00 HOURS, ON SEP 29, 1978

RUNOFF YIELD 17.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 507.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

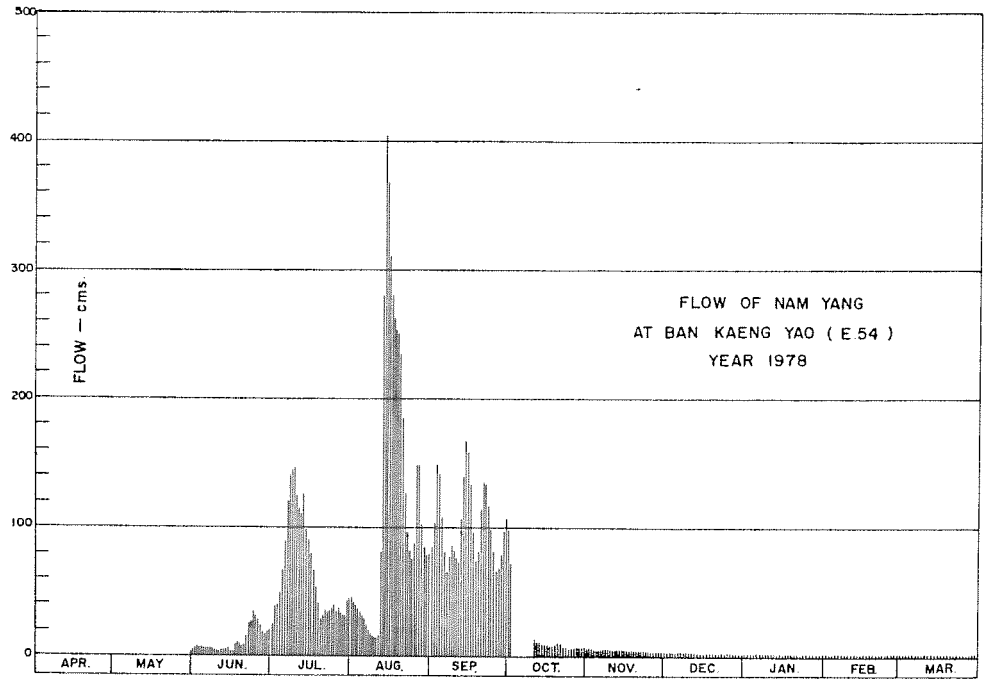
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 170 DISCHARG MEASUREMENTS MADE IN 1977.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	1.57	2.51	3.31	4.51	4.87	1.51	1.22	1.10	1.09	1.01	
2	*******	*******	1.64	3.08	3.20	5.03	4.19	1.48	1.22	1.10	1.06	1.01	
3	*******	*******	1.57	3.21	3.12	6.08	*******	1.45	1.22	1.09	1.04	1.01	
4	*******	*******	1.56	3.47	2.94	5.90	*******	1.43	1.20	1.08	1.04	1.01	
5	*******	*******	1.49	3.99	2.87	5.10	*******	1.41	1.15	1.08	1.04	1.00	
6	*******	*******	1.49	4.63	2.66	4.44	*******	1.45	1.16	1.07	1.04	1.01	
7	*******	*******	1.59	5.46	2.44	4.01	*******	1.47	1.17	1.05	1.05	1.00	
8	*******	*******	1.54	5.94	2.25	4.31	*******	1.50	1.16	1.08	1.06	1.00	
9	*******	*******	1.44	6.05	2.13	4.58	*******	1.50	1.15	1.06	1.04	1.00	
10	*******	*******	1.35	6.05	2.04	4.40	*******	1.45	1.16	1.07	1.04	1.00	
11	*******	*******	1.28	5.48	2.16	4.22	1.97	1.43	1.17	1.05	1.04	1.04	
12	*******	*******	1.29	5.19	4.46	5.11	1.87	1.41	1.14	1.06	1.04	1.03	
13	*******	*******	1.53	5.62	8.14	5.89	1.84	1.40	1.13	1.07	1.04	1.02	
14	*******	*******	1.56	4.90	9.43	6.46	1.76	1.37	1.10	1.07	1.05	1.01	
15	*******	*******	1.36	4.67	9.06	6.29	1.72	1.35	1.09	1.06	1.05	1.01	
16	*******	*******	1.25	4.38	8.47	5.74	1.72	1.32	1.12	1.06	1.04	1.00	
17	*******	*******	1.76	4.00	7.95	4.82	1.65	1.31	1.09	1.05	1.03	1.00	
18	*******	*******	1.77	3.61	7.83	4.21	1.64	1.32	1.07	1.08	1.02	1.02	
19	*******	*******	1.65	3.16	7.78	4.45	1.75	1.31	1.08	1.08	1.03	1.02	
20	*******	*******	1.69	2.71	7.56	5.31	1.81	1.30	1.09	1.06	1.03	1.01	
21	*******	*******	2.09	2.90	6.79	5.80	1.77	1.28	1.07	1.08	1.04	1.00	
22	*******	*******	2.58	2.98	5.58	5.74	1.61	1.28	1.08	1.05	1.03	1.00	
23	*******	*******	2.61	2.93	4.74	5.34	1.56	1.29	1.11	1.05	1.03	0.99	
24	*******	*******	2.93	3.05	4.25	4.88	1.53	1.27	1.08	1.05	1.01	0.99	
25	*******	*******	2.77	3.12	4.63	4.40	1.51	1.24	1.15	1.03	1.02	0.99	
26	*******	*******	2.61	2.99	6.08	4.10	1.50	1.27	1.11	1.03	1.03	1.00	
27	*******	*******	2.37	3.00	6.03	4.05	1.55	1.26	1.12	1.04	1.03	0.99	
28	*******	*******	2.15	2.88	5.13	4.35	1.52	1.24	1.13	1.03	1.01	0.99	
29	*******	*******	2.27	2.86	4.50	4.83	1.51	1.22	1.10	1.02		0.99	
30	*******	*******	2.31	3.25	4.34	5.09	1.56	1.22	1.09	1.02		1.00	
31		*******		3.34	4.37		1.60		1.09	1.02		1.00	
MEAN	*******	*******	1.84	3.92	5.04	4.98	*******	1.36	1.13	1.06	1.04	1.00	
MAX	*******	*******	2.93	6.05	9.43	6.46	4.87	1.51	1.22	1.10	1.09	1.04	9.43
MIN	*******	*******	1.25	2.51	2.04	4.01	*******	1.22	1.07	1.02	1.01	0.99	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.63 M (A.D), AT 12.00 HOURS, ON AUG 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.28 M (A.D)
LEFT BANK ELEVATION 9.38 M (A.D)
RIGHT BANK ELEVATION 8.32 M (A.D), DRAINAGE AREA 847 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	5.84	22.82	43.30	82.58	96.26	5.12	2.16	1.20	1.14	0.66	
2	*******	*******	6.76	36.68	40.00	102.34	71.46	4.76	2.16	1.20	0.96	0.66	
3	*******	*******	5.84	40.30	37.76	147.08	*******	4.40	2.16	1.14	0.84	0.66	
4	*******	*******	5.72	48.10	33.04	138.80	*******	4.16	2.00	1.08	0.84	0.66	
5	*******	*******	4.88	64.66	31.22	105.00	*******	3.92	1.60	1.08	0.84	0.60	
6	*******	*******	4.88	87.14	26.12	80.04	*******	4.40	1.68	1.02	0.84	0.66	
7	*******	*******	6.08	119.52	21.28	65.34	*******	4.64	1.76	0.90	0.90	0.60	
8	*******	*******	5.48	140.64	17.20	75.54	*******	5.00	1.68	1.08	0.96	0.60	
9	*******	*******	4.28	145.70	14.80	85.24	*******	5.00	1.60	0.96	0.84	0.60	
10	*******	*******	3.30	145.70	13.12	78.60	*******	4.40	1.68	1.02	0.84	0.60	
11	*******	*******	2.64	120.36	15.40	72.48	11.86	4.16	1.76	0.90	0.84	0.84	
12	*******	*******	2.72	108.60	80.76	105.40	10.12	3.92	1.52	0.96	0.84	0.78	
13	*******	*******	5.36	126.28	278.56	138.34	9.64	3.80	1.44	1.02	0.84	0.72	
14	*******	*******	5.72	97.40	403.00	165.12	8.44	3.50	1.20	1.02	0.90	0.66	
15	*******	*******	3.40	88.66	366.00	156.74	7.88	3.30	1.14	0.96	0.90	0.66	
16	*******	*******	2.40	77.92	307.70	131.56	7.88	3.00	1.36	0.96	0.84	0.60	
17	*******	*******	8.44	65.00	263.10	94.36	6.90	2.90	1.14	0.90	0.78	0.60	
18	*******	*******	8.58	52.30	253.88	72.14	6.76	3.00	1.02	1.08	0.72	0.72	
19	*******	*******	6.90	38.88	250.08	80.40	8.30	2.90	1.08	1.08	0.78	0.72	
20	*******	*******	7.46	27.24	233.52	113.40	9.16	2.80	1.14	0.96	0.78	0.66	
21	*******	*******	14.02	32.00	183.40	134.20	8.58	2.64	1.02	1.08	0.84	0.60	
22	*******	*******	24.36	34.08	124.56	131.56	6.34	2.64	1.08	0.90	0.78	0.60	
23	*******	*******	25.02	32.78	91.32	114.60	5.72	2.72	1.28	0.90	0.78	0.56	
24	*******	*******	32.78	35.90	73.50	96.64	5.36	2.56	1.08	0.90	0.66	0.56	
25	*******	*******	28.68	37.76	87.14	78.60	5.12	2.32	1.60	0.78	0.72	0.56	
26	*******	*******	25.02	34.34	147.08	68.40	5.00	2.56	1.28	0.78	0.78	0.60	
27	*******	*******	19.74	34.60	144.78	66.70	5.60	2.48	1.36	0.84	0.78	0.56	
28	*******	*******	15.20	31.48	106.20	76.90	5.24	2.32	1.44	0.78	0.66	0.56	
29	*******	*******	17.60	30.96	82.20	94.74	5.12	2.16	1.20	0.72		0.56	
30	*******	*******	18.42	41.50	76.56	104.62	5.72	2.16	1.14	0.72		0.60	
31		*******		44.20	77.58		6.20		1.14	0.72		0.60	
TOTAL	*******	*******	327.52	2043.50	3924.16	3057.46	*******	103.64	44.90	29.64	23.22	19.62	******** CMSDAY
MEAN	*******	*******	10.92	65.92	126.59	101.92	*******	3.45	1.45	0.96	0.83	0.63	******* CMS
MAX	*******	*******	32.78	145.70	403.00	165.12	96.26	5.12	2.16	1.20	1.14	0.84	403.00 CMS
MIN	*******	*******	2.40	22.82	13.12	65.34	*******	2.16	1.02	0.72	0.66	0.56	******* CMS
RUNOFF	*******	*******	28.298	176.558	339.047	264.164	*******	8.954	3.879	2.561	2.006	1.695	******** MCM

MOMENTARY PEAK 423.00 CMS, AT 9.63 M (A.D), AT 12.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 499.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 157 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR 1-12,1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

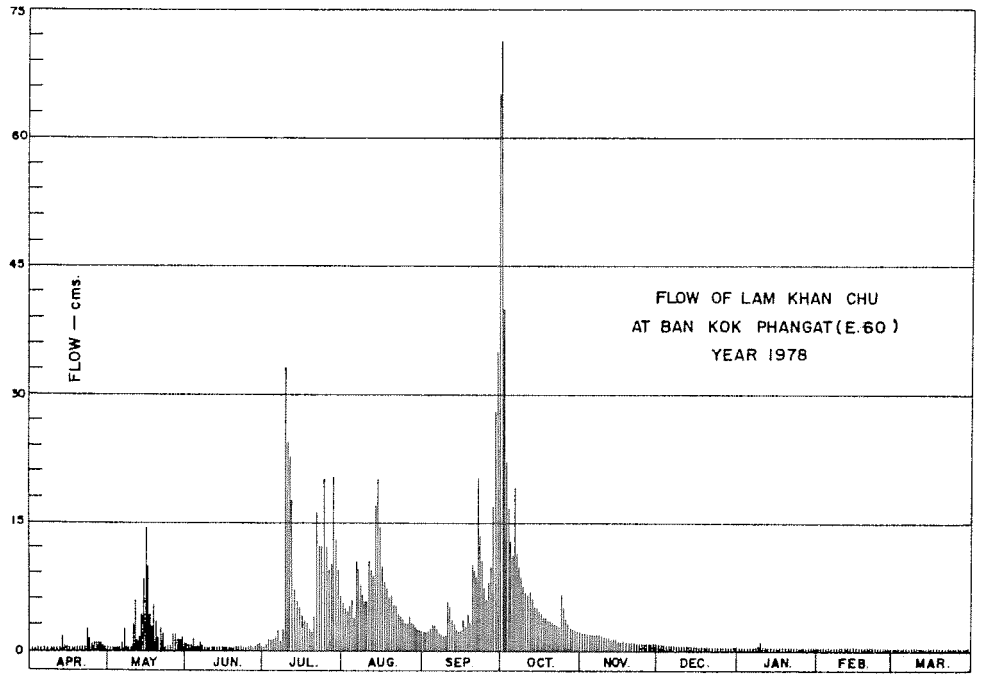
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.61	1.10	0.88	2.24	1.56	6.56	1.52	1.06	0.79	0.80	0.69	
2	0.00	0.59	0.96	1.29	2.15	1.57	5.54	1.51	1.04	0.80	0.78	0.67	
3	0.00	0.56	1.28	1.25	2.26	1.65	4.51	1.47	1.03	0.79	0.78	0.69	
4	0.00	0.54	0.92	1.25	2.31	1.82	3.73	1.45	1.03	0.79	0.75	0.69	
5	0.00	0.53	1.00	1.30	1.97	1.75	3.33	1.44	1.01	0.79	0.76	0.68	
6	0.00	0.89	1.12	1.59	3.11	1.55	4.27	1.43	1.01	0.78	0.78	0.66	
7	0.00	1.60	0.94	1.19	2.75	1.49	3.33	1.45	1.00	0.76	0.78	0.68	
8	0.00	0.86	0.89	1.65	2.51	1.44	2.92	1.42	0.99	0.88	0.80	0.65	
9	0.00	0.75	0.85	5.22	2.35	1.42	2.73	1.37	0.98	1.15	0.81	0.65	
10	0.00	0.91	0.83	4.74	2.37	2.36	2.57	1.35	0.98	1.02	0.80	0.64	
11	0.00	2.40	0.82	4.53	3.11	2.20	2.48	1.31	0.96	0.90	0.81	0.64	
12	0.00	1.19	0.81	2.99	2.86	1.85	2.57	1.29	0.94	0.85	0.82	0.64	
13	1.39	1.36	0.80	2.38	4.11	1.48	2.37	1.27	0.93	0.82	0.81	0.63	
14	0.74	2.06	0.79	2.39	4.42	1.56	2.25	1.25	0.92	0.79	0.80	0.59	
15	0.64	3.06	0.80	2.01	3.36	1.57	2.20	1.23	0.91	0.80	0.81	0.57	
16	0.59	3.78	0.77	1.98	2.85	1.92	2.11	1.22	0.91	0.77	0.80	0.56	
17	0.59	2.08	0.76	1.83	2.72	1.72	2.04	1.20	0.91	0.75	0.81	0.58	
18	0.53	1.69	0.77	1.68	2.46	2.07	1.97	1.18	0.90	0.73	0.80	0.60	
19	0.57	2.29	0.80	1.61	2.52	1.88	1.93	1.16	0.89	0.73	0.80	0.54	
20	0.66	1.47	0.86	2.00	2.32	3.06	1.89	1.15	0.89	0.74	0.78	0.56	
21	0.63	1.22	0.80	3.92	2.30	2.90	1.85	1.14	0.89	0.72	0.79	0.51	
22	1.64	1.67	0.76	3.38	2.11	4.43	1.79	1.13	0.88	0.73	0.70	0.48	
23	1.33	1.02	0.74	3.46	2.03	3.63	1.77	1.11	0.86	0.71	0.69	0.48	
24	0.97	0.93	0.79	4.35	1.91	2.76	2.53	1.11	0.86	0.71	0.72	0.47	
25	1.12	0.90	0.85	3.44	1.82	2.40	2.14	1.10	0.85	0.70	0.68	0.52	
26	1.18	1.45	0.87	2.98	2.03	3.00	1.84	1.10	0.85	0.69	0.68	0.47	
27	1.16	1.48	0.84	3.17	1.88	3.09	1.75	1.09	0.82	0.71	0.68	0.47	
28	1.06	1.25	1.04	4.41	1.78	4.60	1.69	1.08	0.83	0.68	0.69	0.47	
29	0.94	1.22	1.11	3.42	1.69	5.32	1.62	1.09	0.81	0.70		0.45	
30	0.76	1.30	0.92	2.71	1.62	6.38	1.58	1.06	0.81	0.71		0.60	
31		1.02		2.36	1.59		1.55		0.81	0.75		0.56	
MEAN	0.55	1.38	0.89	2.62	2.44	2.48	2.63	1.26	0.92	0.78	0.77	0.58	
MAX	1.64	3.78	1.28	5.22	4.42	6.38	6.56	1.52	1.06	1.15	0.82	0.69	6.56
MIN	0.00	0.53	0.74	0.88	1.59	1.42	1.55	1.06	0.81	0.68	0.68	0.45	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.81 M (A.D), AT 3.00 HOURS, ON OCT 1, 1978

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 205 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.20	0.80	0.38	5.00	2.18	70.84	2.06	0.68	0.29	0.30	0.24	
2	0.00	0.19	0.46	1.37	4.55	2.21	40.36	2.03	0.62	0.30	0.29	0.23	
3	0.00	0.18	1.34	1.25	5.10	2.45	21.53	1.91	0.59	0.29	0.29	0.24	
4	0.00	0.17	0.42	1.25	5.35	3.08	14.04	1.85	0.59	0.29	0.27	0.24	
5	0.00	0.16	0.50	1.40	3.68	2.80	11.38	1.82	0.53	0.29	0.28	0.24	
6	0.00	0.39	0.86	2.27	10.06	2.15	18.90	1.79	0.53	0.29	0.29	0.23	
7	0.00	2.30	0.44	1.07	7.90	1.97	11.38	1.85	0.50	0.28	0.29	0.24	
8	0.00	0.36	0.39	2.45	6.46	1.82	8.92	1.76	0.49	0.38	0.30	0.22	
9	0.00	0.27	0.35	32.68	5.55	1.76	7.78	1.61	0.48	0.95	0.31	0.22	
10	0.00	0.41	0.33	24.56	5.65	5.60	6.82	1.55	0.48	0.56	0.30	0.22	
11	0.00	5.80	0.32	21.79	10.06	4.80	6.28	1.43	0.46	0.40	0.31	0.22	
12	0.00	1.07	0.31	9.34	8.56	3.20	6.82	1.37	0.44	0.35	0.32	0.22	
13	1.67	1.58	0.30	5.70	17.30	1.94	5.65	1.31	0.43	0.32	0.31	0.21	
14	0.27	4.10	0.29	5.75	20.44	2.18	5.05	1.25	0.42	0.29	0.30	0.19	
15	0.22	9.76	0.30	3.85	11.56	2.21	4.80	1.19	0.41	0.30	0.31	0.18	
16	0.19	14.44	0.28	3.72	8.50	3.48	4.35	1.16	0.41	0.28	0.30	0.18	
17	0.19	4.20	0.28	3.12	7.72	2.68	4.00	1.10	0.41	0.27	0.31	0.19	
18	0.16	2.57	0.28	2.54	6.16	4.15	3.68	1.04	0.40	0.26	0.30	0.20	
19	0.18	5.25	0.30	2.33	6.52	3.32	3.52	0.98	0.39	0.26	0.30	0.17	
20	0.23	1.91	0.36	3.80	5.40	9.76	3.36	0.95	0.39	0.27	0.29	0.18	
21	0.21	1.16	0.30	15.58	5.30	8.80	3.20	0.92	0.39	0.26	0.29	0.15	
22	2.42	2.51	0.28	11.68	4.35	20.56	2.96	0.89	0.38	0.26	0.25	0.14	
23	1.49	0.56	0.27	12.16	3.95	13.31	2.88	0.83	0.36	0.25	0.24	0.14	
24	0.47	0.43	0.29	19.70	3.44	7.96	6.58	0.83	0.36	0.25	0.26	0.13	
25	0.86	0.40	0.35	12.04	3.08	5.80	4.50	0.80	0.35	0.25	0.24	0.16	
26	1.04	1.85	0.37	9.28	3.95	9.40	3.16	0.80	0.35	0.24	0.24	0.13	
27	0.98	1.94	0.34	10.42	3.32	9.94	2.80	0.77	0.32	0.25	0.24	0.13	
28	0.68	1.25	0.62	20.32	2.92	22.70	2.57	0.74	0.33	0.24	0.24	0.13	
29	0.44	1.16	0.83	11.92	2.57	35.08	2.36	0.77	0.31	0.25		0.12	
30	0.28	1.40	0.42	7.66	2.36	64.72	2.24	0.68	0.31	0.25		0.20	
31		0.56		5.60	2.27		2.15		0.31	0.27		0.18	
TOTAL	11.98	68.53	12.98	266.98	199.03	262.01	294.86	38.04	13.42	9.69	7.97	5.87	1191.36 CMSDAY
MEAN	0.40	2.21	0.43	8.61	6.42	8.73	9.51	1.27	0.43	0.31	0.28	0.19	3.26 CMS
MAX	2.42	14.44	1.34	32.68	20.44	64.72	70.84	2.06	0.68	0.95	0.32	0.24	70.84 CMS
MIN	0.00	0.16	0.27	0.38	2.27	1.76	2.15	0.68	0.31	0.24	0.24	0.12	0.00 CMS
RUNOFF	1.035	5.921	1.121	23.067	17.196	22.638	25.476	3.287	1.159	0.837	0.689	0.507	102.933 MCM

MOMENTARY PEAK 79.76 CMS, AT 6.81 M (A.D), AT 3.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 15.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 389.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S./R.I.D.

LOCATION — AT THE FOOT OF THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +165.802 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

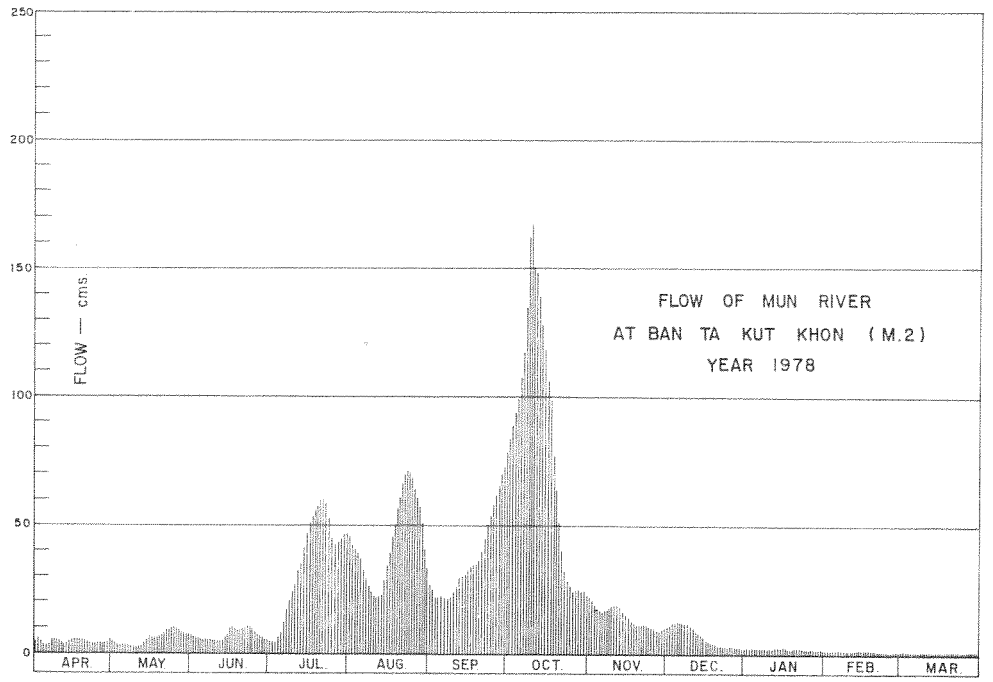
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 222 DISCHARGE MEASUREMENTS MADE IN 1969.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	160.03	160.05	160.29	160.08	162.56	161.61	164.14	161.33	160.56	159.71	159.61	159.42	
2	160.14	159.99	160.25	160.09	162.45	161.51	164.36	161.21	160.60	159.70	159.56	159.42	
3	160.08	159.89	160.21	160.08	162.34	161.37	164.55	161.12	160.65	159.70	159.55	159.41	
4	159.91	159.92	160.18	160.17	162.24	161.31	164.65	161.05	160.67	159.74	159.59	159.40	
5	159.87	159.92	160.18	160.37	162.12	161.33	164.79	161.04	160.69	159.73	159.58	159.41	
6	159.91	159.93	160.16	160.53	161.96	161.31	164.91	160.95	160.71	159.74	159.57	159.41	
7	160.06	159.89	160.16	160.83	161.75	161.29	165.12	160.99	160.67	159.75	159.55	159.42	
8	160.11	159.88	160.17	161.13	161.55	161.27	165.36	161.05	160.62	159.78	159.59	159.42	
9	160.11	159.83	160.15	161.35	161.43	161.35	165.66	161.06	160.63	159.75	159.62	159.43	
10	160.09	159.81	160.11	161.55	161.34	161.43	165.70	161.09	160.61	159.73	159.62	159.43	
11	160.03	159.82	160.08	161.73	161.31	161.52	165.53	161.09	160.51	159.71	159.63	159.43	
12	159.91	159.90	160.09	161.89	161.30	161.69	165.52	161.09	160.43	159.76	159.66	159.42	
13	160.01	159.97	160.14	162.07	161.35	161.79	165.41	161.09	160.35	159.82	159.64	159.42	
14	160.15	160.12	160.27	162.35	161.62	161.80	165.30	160.97	160.30	159.83	159.58	159.42	
15	160.20	160.27	160.44	162.62	161.96	161.85	165.17	160.89	160.22	159.79	159.62	159.41	
16	160.17	160.28	160.58	162.82	162.26	161.90	165.02	160.85	160.14	159.79	159.65	159.39	
17	160.14	160.21	160.53	163.00	162.59	162.00	164.84	160.74	160.11	159.73	159.63	159.39	
18	160.16	160.23	160.47	163.12	162.79	162.09	164.56	160.69	160.05	159.66	159.60	159.41	
19	160.11	160.25	160.48	163.23	163.08	162.13	164.11	160.64	160.00	159.70	159.57	159.41	
20	160.06	160.32	160.60	163.34	163.38	162.15	163.40	160.63	159.94	159.76	159.51	159.41	
21	160.07	160.35	160.60	163.39	163.62	162.31	162.71	160.62	159.91	159.77	159.45	159.40	
22	160.03	160.46	160.61	163.35	163.80	162.57	162.21	160.60	159.92	159.76	159.44	159.39	
23	159.95	160.58	160.58	163.23	163.86	162.75	161.83	160.58	159.87	159.68	159.41	159.39	
24	159.99	160.54	160.51	162.95	163.81	162.99	161.67	160.55	159.84	159.69	159.39	159.37	
25	159.99	160.54	160.41	162.63	163.71	163.22	161.55	160.54	159.85	159.71	159.40	159.36	
26	160.01	160.51	160.35	162.44	163.55	163.41	161.44	160.50	159.85	159.71	159.41	159.35	
27	160.00	160.44	160.27	162.47	163.36	163.54	161.45	160.45	159.83	159.68	159.42	159.33	
28	159.99	160.38	160.22	162.56	163.13	163.69	161.51	160.43	159.81	159.65	159.42	159.33	
29	160.09	160.34	160.16	162.63	162.70	163.82	161.46	160.49	159.80	159.64		159.31	
30	160.18	160.32	160.13	162.69	162.25	163.99	161.49	160.51	159.78	159.65		159.31	
31		160.31		162.67	161.89		161.44		159.70	159.68		159.31	
MEAN	160.05	160.17	160.31	162.04	162.49	162.17	163.77	160.83	160.21	159.73	159.55	159.39	
MAX	160.20	160.58	160.61	163.39	163.86	163.99	165.70	161.33	160.71	159.83	159.66	159.43	165.70
MIN	159.87	159.81	160.08	160.08	161.30	161.27	161.44	160.43	159.70	159.64	159.39	159.31	159.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 165.73 M (MSL), AT 1.00 HOURS, ON OCT 10, 1978
ZERO GAGE AT BOTTOM ELEVATION 157.85 M (MSL), RIVER BED 157.56 M (MSL)
LEFT BANK ELEVATION 164.36 M (MSL)
RIGHT BANK ELEVATION 165.73 M (MSL), DRAINAGE AREA 4800 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.17	4.35	6.88	4.62	44.04	26.97	78.48	22.21	10.24	1.86	1.35	0.76	
2	5.20	3.81	6.40	4.71	41.95	25.27	84.80	20.17	10.80	1.80	1.18	0.76	
3	4.62	2.94	5.92	4.62	39.86	22.89	91.00	18.72	11.50	1.80	1.15	0.73	
4	3.09	3.18	5.60	5.50	37.96	21.87	95.00	17.60	11.78	2.04	1.27	0.70	
5	2.82	3.18	5.60	7.84	35.76	22.21	100.60	17.44	12.06	1.98	1.24	0.73	
6	3.09	3.27	5.40	9.82	32.92	21.87	105.50	16.00	12.34	2.04	1.21	0.73	
7	4.44	2.94	5.40	14.08	29.35	21.53	117.40	16.64	11.78	2.10	1.15	0.76	
8	4.90	2.88	5.50	18.88	25.95	21.19	134.80	17.60	11.08	2.28	1.27	0.76	
9	4.90	2.58	5.30	22.55	23.91	22.55	163.00	17.76	11.22	2.10	1.40	0.79	
10	4.71	2.46	4.90	25.95	22.38	23.91	167.00	18.24	10.94	1.98	1.40	0.79	
11	4.17	2.52	4.62	29.01	21.87	25.44	150.00	18.24	9.54	1.86	1.45	0.79	
12	3.09	3.00	4.71	31.73	21.70	28.33	149.00	18.24	8.56	2.16	1.60	0.76	
13	3.99	3.63	5.20	34.86	22.55	30.03	138.90	18.24	7.60	2.52	1.50	0.76	
14	5.30	5.00	6.64	40.05	27.14	30.20	130.00	16.32	7.00	2.58	1.24	0.76	
15	5.80	6.64	8.68	45.18	32.92	31.05	120.90	15.04	6.04	2.34	1.40	0.73	
16	5.50	6.76	10.52	48.98	38.34	31.90	111.20	14.40	5.20	2.34	1.55	0.68	
17	5.20	5.92	9.82	52.40	44.61	33.60	102.60	12.76	4.90	1.98	1.45	0.68	
18	5.40	6.16	9.04	54.80	48.41	35.22	91.40	12.06	4.35	1.60	1.30	0.73	
19	4.90	6.40	9.16	57.03	54.00	35.94	77.67	11.36	3.90	1.80	1.21	0.73	
20	4.44	7.24	10.80	59.38	60.26	36.30	60.70	11.22	3.36	2.16	1.03	0.73	
21	4.53	7.60	10.80	60.48	65.76	39.29	46.89	11.08	3.09	2.22	0.85	0.70	
22	4.17	8.92	10.94	59.60	69.90	44.23	37.39	10.80	3.18	2.16	0.82	0.68	
23	3.45	10.52	10.52	57.03	71.34	47.65	30.71	10.52	2.82	1.70	0.73	0.68	
24	3.81	9.96	9.54	51.45	70.14	52.21	27.99	10.10	2.64	1.75	0.68	0.64	
25	3.81	9.96	8.32	45.37	67.83	56.82	25.95	9.96	2.70	1.86	0.70	0.62	
26	3.99	9.54	7.60	41.76	64.15	60.93	24.08	9.40	2.70	1.86	0.73	0.60	
27	3.90	8.68	6.64	42.33	59.82	63.92	24.25	8.80	2.58	1.70	0.76	0.56	
28	3.81	7.96	6.04	44.04	55.00	67.37	25.27	8.56	2.46	1.55	0.76	0.56	
29	4.71	7.48	5.40	45.37	46.70	70.38	24.42	9.28	2.40	1.50		0.52	
30	5.60	7.24	5.10	46.51	38.15	74.55	24.93	9.54	2.28	1.55		0.52	
31		7.12		46.13	31.73		24.08		1.80	1.70		0.52	
TOTAL	131.51	179.84	216.99	1112.06	1346.40	1125.62	2585.91	428.30	202.84	60.87	32.38	21.46	7444.17 CMSDAY
MEAN	4.38	5.80	7.23	35.87	43.43	37.52	83.42	14.28	6.54	1.96	1.16	0.69	20.39 CMS
MAX	5.80	10.52	10.94	60.48	71.34	74.55	167.00	22.21	12.34	2.58	1.60	0.79	167.00 CMS
MIN	2.82	2.46	4.62	4.62	21.70	21.19	24.08	8.56	1.80	1.50	0.68	0.52	0.52 CMS
RUNOFF	11.362	15.538	18.748	96.082	116.329	97.253	223.422	37.005	17.525	5.259	2.798	1.854	643.176 MCM

MOMENTARY PEAK 170.90 CMS, AT 165.73 M (MSL), AT 1.00 HOURS, ON OCT 10, 1978

RUNOFF YIELD 4.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — 3-8 TIME DAILY READINGS AT 01.00, 06.00, 09.00, 12.00, 15.00, 18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3-8 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1955 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972 TO DATE.

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

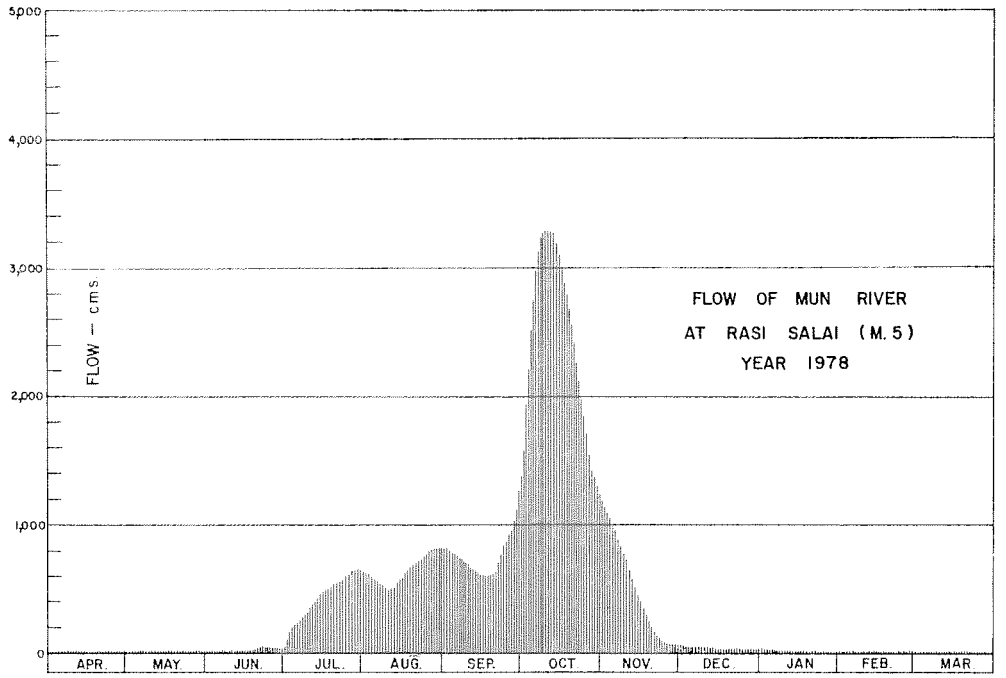
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +118.20 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 65 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	110.21	110.29	110.45	111.16	115.85	116.94	119.64	118.85	111.27	110.68	110.43	110.29	
2	110.21	110.27	110.45	111.80	115.77	116.91	120.15	118.63	111.22	110.67	110.43	110.29	
3	110.21	110.27	110.42	112.24	115.68	116.85	120.61	118.45	111.18	110.65	110.42	110.29	
4	110.19	110.27	110.40	112.58	115.61	116.79	120.98	118.18	111.12	110.64	110.42	110.29	
5	110.19	110.27	110.41	112.87	115.52	116.71	121.35	117.92	111.09	110.64	110.41	110.29	
6	110.19	110.28	110.48	113.13	115.43	116.62	121.63	117.66	111.06	110.64	110.40	110.28	
7	110.18	110.27	110.56	113.21	115.32	116.53	121.79	117.37	111.04	110.62	110.40	110.27	
8	110.19	110.26	110.55	113.35	115.21	116.42	121.92	117.06	111.03	110.61	110.39	110.27	
9	110.23	110.25	110.55	113.59	115.12	116.29	121.98	116.75	111.02	110.59	110.38	110.27	
10	110.22	110.23	110.53	113.84	115.00	116.18	122.00	116.40	111.01	110.59	110.37	110.26	
11	110.21	110.22	110.52	114.00	114.95	116.09	122.01	116.03	111.00	110.58	110.37	110.26	
12	110.20	110.23	110.51	114.19	114.98	115.97	122.00	115.65	110.96	110.57	110.36	110.25	
13	110.28	110.33	110.49	114.36	115.07	115.95	121.97	115.25	110.93	110.57	110.36	110.25	
14	110.23	110.32	110.47	114.50	115.23	115.77	121.90	114.91	110.90	110.56	110.36	110.25	
15	110.35	110.33	110.46	114.67	115.40	115.69	121.83	114.49	110.85	110.55	110.35	110.25	
16	110.37	110.39	110.44	114.78	115.59	115.64	121.72	114.12	110.83	110.53	110.34	110.27	
17	110.36	110.41	110.43	114.89	115.77	115.64	121.60	113.77	110.80	110.52	110.34	110.26	
18	110.34	110.46	110.46	115.01	115.96	115.64	121.46	113.44	110.80	110.52	110.33	110.26	
19	110.34	110.49	110.63	115.07	116.09	115.67	121.31	113.13	110.81	110.52	110.33	110.26	
20	110.35	110.47	110.83	115.10	116.21	115.74	121.14	112.82	110.80	110.51	110.33	110.25	
21	110.35	110.44	110.91	115.14	116.33	116.05	120.96	112.49	110.83	110.51	110.33	110.25	
22	110.36	110.41	111.04	115.23	116.43	116.42	120.78	112.21	110.83	110.50	110.33	110.24	
23	110.36	110.41	111.09	115.31	116.52	116.65	120.61	111.96	110.82	110.50	110.32	110.24	
24	110.35	110.42	111.05	115.39	116.63	117.08	120.44	111.77	110.81	110.49	110.32	110.23	
25	110.34	110.41	110.99	115.55	116.72	117.40	120.26	111.66	110.78	110.46	110.31	110.22	
26	110.32	110.42	110.95	115.68	116.83	117.60	120.07	111.56	110.76	110.46	110.31	110.22	
27	110.33	110.44	110.97	115.81	116.91	117.93	119.89	111.47	110.73	110.46	110.30	110.22	
28	110.31	110.44	110.97	115.89	116.96	118.29	119.68	111.42	110.71	110.46	110.29	110.22	
29	110.30	110.44	110.94	115.91	116.98	118.75	119.47	111.38	110.70	110.45		110.21	
30	110.29	110.45	110.90	115.91	116.99	119.19	119.25	111.32	110.70	110.45		110.21	
31		110.47		115.87	116.96		119.07		110.69	110.44		110.20	
MEAN	110.28	110.36	110.66	114.39	115.94	116.65	120.95	114.60	110.91	110.55	110.36	110.25	
MAX	110.37	110.49	111.09	115.91	116.99	119.19	122.01	118.85	111.27	110.68	110.43	110.29	122.01
MIN	110.18	110.22	110.40	111.16	114.95	115.64	119.07	111.32	110.69	110.44	110.29	110.20	110.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 122.01 M (MSL), AT 15.01 HOURS, ON OCT 11, 1978
ZERO GAGE AT BOTTOM ELEVATION 110.00 M (MSL), RIVER BED 108.50 M (MSL)
LEFT BANK ELEVATION 124.70 M (MSL)
RIGHT BANK ELEVATION 117.80 M (MSL), DRAINAGE AREA 44275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.3	5.7	12.5	56.2	635.0	809.4	1439.6	1180.5	63.9	24.8	11.5	5.7	
2	3.3	5.1	12.5	108.0	622.2	804.6	1726.5	1127.2	60.4	24.2	11.5	5.7	
3	3.3	5.1	11.0	152.0	608.0	795.0	2056.0	1084.0	57.6	23.0	11.0	5.7	
4	2.7	5.1	10.0	186.8	597.5	785.4	2362.0	1027.0	53.4	22.4	11.0	5.7	
5	2.7	5.1	10.5	221.4	584.0	772.6	2695.0	977.6	51.3	22.4	10.5	5.7	
6	2.7	5.4	14.0	252.6	570.5	758.2	2947.0	930.8	49.2	22.4	10.0	5.4	
7	2.4	5.1	18.0	262.2	554.0	743.8	3091.0	878.9	47.8	21.2	10.0	5.1	
8	2.7	4.8	17.5	279.5	537.5	726.2	3208.0	828.6	47.1	20.6	9.6	5.1	
9	3.9	4.5	17.5	310.7	524.0	705.4	3262.0	779.0	46.4	19.5	9.2	5.1	
10	3.6	3.9	16.5	343.6	506.0	687.8	3280.0	723.0	45.7	19.5	8.8	4.8	
11	3.3	3.6	16.0	366.0	499.0	673.4	3289.0	663.8	45.0	19.0	8.8	4.8	
12	3.0	3.9	15.5	392.6	503.2	654.2	3280.0	603.5	42.2	18.5	8.4	4.5	
13	5.4	7.2	14.5	416.4	516.5	651.0	3253.0	543.5	40.1	18.5	8.4	4.5	
14	3.9	6.8	13.5	436.0	540.5	622.2	3190.0	493.4	38.0	18.0	8.4	4.5	
15	3.0	7.2	13.0	459.8	566.0	609.5	3127.0	434.6	35.0	17.5	8.0	4.5	
16	8.9	9.6	12.0	475.2	594.5	602.0	3028.0	382.8	33.8	16.5	7.6	5.1	
17	8.4	10.5	11.5	490.6	622.2	602.0	2920.0	334.1	32.0	16.0	7.6	4.8	
18	7.6	13.0	13.0	507.5	652.6	602.0	2794.0	291.2	32.0	16.0	7.2	4.8	
19	7.6	14.5	21.8	516.5	673.4	606.5	2659.0	252.6	32.6	16.0	7.2	4.8	
20	8.0	13.5	33.8	521.0	692.6	617.4	2506.0	215.4	32.0	15.5	7.2	4.5	
21	8.0	12.0	38.7	527.0	711.8	667.0	2344.0	177.0	33.8	15.5	7.2	4.5	
22	8.4	10.5	47.8	540.5	727.8	726.2	2194.0	149.0	33.8	15.0	7.2	4.2	
23	8.4	10.5	51.3	552.5	742.2	763.0	2058.0	124.0	33.2	15.0	6.8	4.2	
24	8.0	11.0	48.5	564.5	759.8	831.8	1926.8	105.3	32.6	14.5	6.8	3.9	
25	7.6	10.5	44.3	588.5	774.2	884.0	1799.2	95.4	30.8	13.0	6.4	3.6	
26	6.8	11.0	41.5	608.0	791.8	920.0	1674.8	86.4	29.6	13.0	6.4	3.6	
27	7.2	12.0	42.9	628.6	804.6	979.4	1564.6	78.6	27.8	13.0	6.0	3.6	
28	6.4	12.0	42.9	641.4	812.6	1049.0	1457.2	74.6	26.6	13.0	5.7	3.6	
29	6.0	12.0	40.8	644.6	815.8	1156.0	1369.2	71.6	26.0	12.5		3.3	
30	5.7	12.5	38.0	644.6	817.4	1275.0	1294.0	67.4	26.0	12.5		3.3	
31		13.5		638.2	812.6		1239.6		25.4	12.0		3.0	
TOTAL	167.1	267.1	741.3	13333.0	20169.8	23080.0	75036.5	14780.8	1211.1	540.5	234.4	141.6	149703.0 CMSDAY
MEAN	5.6	8.6	24.7	430.1	650.6	769.3	2420.5	492.7	39.1	17.4	8.4	4.6	410.1 CMS
MAX	8.8	14.5	51.3	644.6	817.4	1275.0	3289.0	1180.5	63.9	24.8	11.5	5.7	3289.0 CMS
MIN	2.4	3.6	10.0	56.2	499.0	602.0	1239.6	67.4	25.4	12.0	5.7	3.0	2.4 CMS
RUNOFF	14.44	23.08	64.05	1151.97	1742.67	1994.11	6483.15	1277.06	104.64	46.70	20.25	12.23	12934.34 MCM

MOMENTARY PEAK 3289.00 CMS, AT 122.01 M (MSL), AT 15.01 HOURS, ON OCT 11, 1978

RUNOFF YIELD 9.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 74.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

LOCATION — INFRONT OF AUTOMATIC GAGE BUILDING.

ELEVATION — +132.339 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

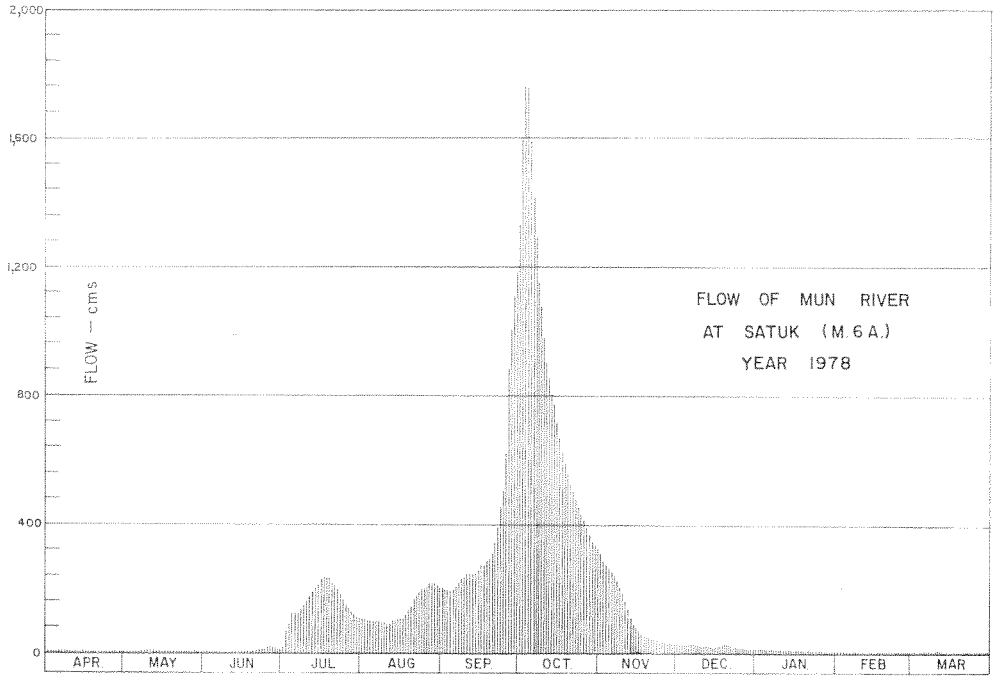
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 173 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	124.29	124.26	124.45	125.01	127.11	128.08	130.86	128.81	125.58	125.05	124.73	124.63	
2	124.29	124.27	124.48	125.62	127.07	128.05	131.09	128.74	125.57	125.03	124.72	124.62	
3	124.29	124.30	124.47	126.64	127.05	128.04	131.29	128.65	125.56	125.02	124.72	124.61	
4	124.29	124.29	124.45	127.17	127.04	128.02	131.29	128.58	125.59	125.01	124.71	124.61	
5	124.29	124.29	124.49	127.37	127.03	128.05	131.18	128.50	125.63	125.00	124.71	124.61	
6	124.29	124.34	124.48	127.40	127.03	128.09	131.04	128.44	125.57	124.98	124.70	124.60	
7	124.28	124.38	124.48	127.40	127.02	128.16	130.90	128.33	125.54	124.96	124.69	124.60	
8	124.28	124.38	124.48	127.44	127.00	128.24	130.72	128.19	125.47	124.95	124.69	124.59	
9	124.28	124.36	124.50	127.53	126.98	128.30	130.54	128.03	125.40	124.94	124.69	124.59	
10	124.27	124.36	124.54	127.68	126.94	128.35	130.42	127.86	125.35	124.92	124.68	124.58	
11	124.27	124.38	124.56	127.80	126.92	128.40	130.33	127.65	125.31	124.91	124.68	124.58	
12	124.28	124.38	124.59	127.90	126.96	128.40	130.24	127.45	125.28	124.90	124.68	124.58	
13	124.31	124.38	124.63	128.00	127.08	128.41	130.15	127.19	125.29	124.89	124.67	124.57	
14	124.34	124.49	124.64	128.10	127.11	128.42	130.06	126.93	125.33	124.88	124.67	124.57	
15	124.49	124.54	124.66	128.19	127.12	128.52	129.99	126.66	125.37	124.87	124.67	124.57	
16	124.51	124.52	124.69	128.28	127.14	128.61	129.90	126.48	125.42	124.86	124.66	124.57	
17	124.45	124.51	124.74	128.33	127.22	128.63	129.82	126.28	125.45	124.86	124.66	124.57	
18	124.41	124.50	124.76	128.34	127.36	128.68	129.75	126.15	125.47	124.84	124.65	124.56	
19	124.37	124.50	124.80	128.32	127.49	128.71	129.67	126.06	125.46	124.84	124.65	124.56	
20	124.34	124.49	124.78	128.26	127.62	128.71	129.61	126.00	125.42	124.82	124.65	124.56	
21	124.32	124.47	124.75	128.18	127.75	128.82	129.54	125.96	125.35	124.81	124.64	124.55	
22	124.30	124.45	124.90	128.13	127.84	128.97	129.47	125.91	125.28	124.80	124.64	124.55	
23	124.30	124.44	124.98	128.01	127.96	129.17	129.40	125.87	125.22	124.78	124.63	124.54	
24	124.29	124.43	124.99	127.87	128.03	129.36	129.34	125.82	125.17	124.78	124.63	124.55	
25	124.29	124.41	125.16	127.72	128.11	129.53	129.28	125.79	125.15	124.78	124.63	124.55	
26	124.29	124.41	125.20	127.59	128.16	129.85	129.22	125.75	125.14	124.77	124.63	124.55	
27	124.29	124.42	125.15	127.46	128.20	130.30	129.16	125.70	125.13	124.76	124.63	124.54	
28	124.28	124.44	125.07	127.35	128.21	130.52	129.10	125.67	125.12	124.75	124.64	124.54	
29	124.28	124.45	125.01	127.26	128.21	130.61	129.03	125.64	125.09	124.75		124.53	
30	124.27	124.45	124.99	127.19	128.16	130.71	128.95	125.60	125.07	124.74		124.53	
31		124.45		127.15	128.09		128.88		125.07	124.73		124.53	
MEAN	124.32	124.41	124.73	127.57	127.45	128.82	130.01	126.96	125.35	124.87	124.67	124.57	
MAX	124.51	124.54	125.20	128.34	128.21	130.71	131.29	128.81	125.63	125.05	124.73	124.63	131.29
MIN	124.27	124.26	124.45	125.01	126.92	128.02	128.88	125.60	125.07	124.73	124.63	124.53	124.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 131.30 M (MSL), AT 6.00 HOURS, ON OCT 4, 1978
ZERO GAGE AT BOTTOM ELEVATION 124.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 28275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.9	0.6	2.5	12.8	104.7	200.4	1334.0	312.0	29.2	13.7	5.7	4.3	
2	0.9	0.7	2.8	30.8	102.1	196.5	1550.5	298.0	28.8	13.3	5.5	4.2	
3	0.9	1.0	2.7	77.0	100.7	195.2	1759.5	281.5	28.4	13.0	5.5	4.1	
4	0.9	0.9	2.5	108.9	100.1	192.6	1759.5	270.0	29.6	12.8	5.2	4.1	
5	0.9	0.9	2.9	125.0	99.5	196.5	1644.0	258.0	31.2	12.5	5.2	4.1	
6	0.9	1.4	2.8	127.5	99.5	201.7	1503.0	249.6	28.8	12.0	5.0	4.0	
7	0.8	1.8	2.8	127.5	98.8	210.8	1370.0	234.2	27.6	11.5	4.9	4.0	
8	0.8	1.8	2.8	131.3	97.5	221.6	1216.0	214.7	25.1	11.3	4.9	3.9	
9	0.8	1.6	3.0	140.0	96.2	230.0	1075.0	193.9	23.0	11.0	4.9	3.9	
10	0.7	1.6	3.4	155.0	93.6	237.0	989.0	173.0	21.5	10.5	4.8	3.8	
11	0.7	1.8	3.6	167.0	92.3	244.0	930.9	152.0	20.3	10.2	4.8	3.8	
12	0.8	1.8	3.9	177.0	94.9	244.0	874.8	132.2	19.5	10.0	4.8	3.8	
13	1.1	1.8	4.3	190.0	102.7	245.4	820.0	110.3	19.8	9.8	4.7	3.7	
14	1.4	2.9	4.4	203.0	104.7	246.8	768.0	92.9	20.9	9.5	4.7	3.7	
15	2.9	3.4	4.6	214.7	105.4	261.0	730.0	79.0	22.1	9.3	4.7	3.7	
16	3.1	3.2	4.9	227.2	106.8	274.7	685.0	69.0	23.6	9.0	4.6	3.7	
17	2.5	3.1	6.0	234.2	112.6	278.1	645.0	59.6	24.5	9.0	4.6	3.7	
18	2.1	3.0	6.5	235.6	124.1	286.6	613.5	53.8	25.1	8.5	4.5	3.6	
19	1.7	3.0	7.5	232.8	136.0	292.0	579.4	49.7	24.8	8.5	4.5	3.6	
20	1.4	2.9	7.0	224.4	149.0	292.0	554.2	47.0	23.6	8.0	4.5	3.6	
21	1.2	2.7	6.3	213.4	160.0	314.0	526.0	45.2	21.5	7.8	4.4	3.5	
22	1.0	2.5	10.0	206.9	171.0	346.1	499.5	42.9	19.5	7.5	4.4	3.5	
23	1.0	2.4	12.0	191.3	184.8	400.0	475.0	41.2	18.0	7.0	4.3	3.4	
24	0.9	2.3	12.2	174.0	193.9	461.0	454.0	38.9	16.8	7.0	4.3	3.5	
25	0.9	2.1	16.5	159.0	204.3	522.0	433.8	37.6	16.3	7.0	4.3	3.5	
26	0.9	2.1	17.5	146.0	210.8	660.0	415.2	36.0	16.0	6.7	4.3	3.5	
27	0.9	2.2	16.3	133.2	216.0	912.0	397.0	34.0	15.7	6.5	4.3	3.4	
28	0.8	2.4	14.3	123.2	217.4	1060.0	379.0	32.8	15.5	6.3	4.4	3.4	
29	0.8	2.5	12.8	115.8	217.4	1128.0	360.8	31.6	14.8	6.3		3.3	
30	0.7	2.5	12.2	110.3	210.8	1208.0	341.5	30.0	14.3	6.0		3.3	
31		2.5		107.5	201.7		326.0		14.3	5.7		3.3	
TOTAL	35.3	65.4	211.0	4822.3	4309.3	11758.0	26009.1	3700.6	680.1	287.2	132.7	114.9	52125.8 CMSDAY
MEAN	1.2	2.1	7.0	155.6	139.0	391.9	839.0	123.4	21.9	9.3	4.7	3.7	142.8 CMS
MAX	3.1	3.4	17.5	235.6	217.4	1208.0	1759.5	312.0	31.2	13.7	5.7	4.3	1759.5 CMS
MIN	0.7	0.6	2.5	12.8	92.3	192.6	326.0	30.0	14.3	5.7	4.3	3.3	0.6 CMS
RUNOFF	3.05	5.65	18.23	416.65	372.32	1015.89	2247.18	319.73	58.76	24.81	11.47	9.93	4503.67 MCM

MOMENTARY PEAK 1770.00 CMS, AT 131.30 M (MSL), AT 6.00 HOURS, ON OCT 4, 1978

RUNOFF YIELD 5.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 62.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

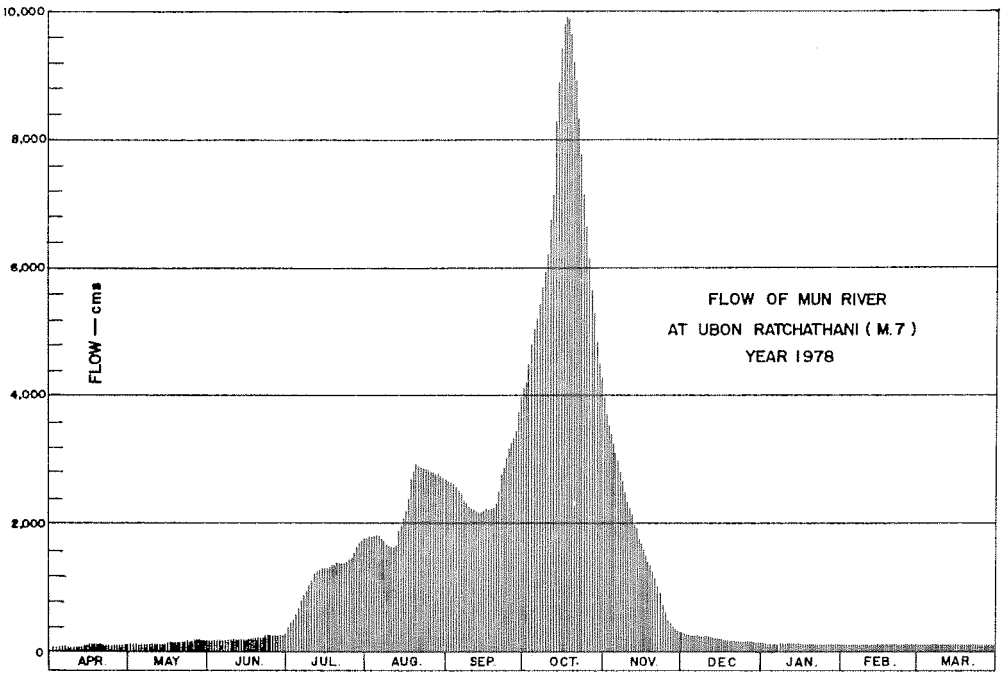
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +120.81 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 61 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	106.65	106.86	107.15	107.48	111.04	112.57	114.54	114.17	107.54	106.95	106.83	106.83	
2	106.64	106.84	107.15	108.06	111.04	112.54	114.73	113.91	107.50	106.92	106.81	106.83	
3	106.65	106.87	107.15	108.13	111.04	112.50	114.93	113.66	107.45	106.90	106.81	106.83	
4	106.65	106.87	107.15	108.28	111.05	112.43	115.10	113.41	107.44	106.89	106.80	106.83	
5	106.66	106.86	107.15	108.58	111.08	112.34	115.32	113.16	107.43	106.88	106.80	106.83	
6	106.67	106.86	107.16	108.77	111.03	112.22	115.52	112.92	107.41	106.87	106.81	106.83	
7	106.66	106.86	107.16	109.05	110.92	112.09	115.70	112.70	107.40	106.87	106.82	106.81	
8	106.66	106.86	107.15	109.12	110.82	112.00	115.87	112.46	107.38	106.87	106.83	106.81	
9	106.65	106.86	107.15	109.38	110.76	111.90	116.03	112.22	107.36	106.88	106.83	106.81	
10	106.65	106.87	107.16	109.60	110.71	111.82	116.21	111.91	107.35	106.91	106.83	106.81	
11	106.65	106.88	107.17	109.83	110.68	111.79	116.53	111.78	107.34	106.94	106.83	106.82	
12	106.66	106.88	107.18	109.94	110.87	111.75	116.72	111.54	107.31	106.93	106.83	106.83	
13	106.74	106.89	107.19	109.99	111.16	111.74	117.15	111.29	107.28	106.92	106.82	106.82	
14	106.75	106.89	107.20	110.01	111.36	111.76	117.42	111.05	107.25	106.91	106.81	106.82	
15	106.83	106.93	107.21	110.04	111.55	111.81	117.60	110.83	107.22	106.90	106.83	106.82	
16	106.84	106.93	107.23	110.07	111.80	111.82	117.71	110.61	107.18	106.88	106.84	106.83	
17	106.85	106.94	107.25	110.10	112.24	111.80	117.76	110.40	107.15	106.88	106.84	106.83	
18	106.85	106.94	107.28	110.13	112.59	111.84	117.75	110.19	107.12	106.87	106.84	106.84	
19	106.85	106.96	107.32	110.16	112.82	111.91	117.67	109.99	107.10	106.87	106.84	106.83	
20	106.85	106.97	107.28	110.16	112.91	112.03	117.57	109.78	107.08	106.88	106.83	106.83	
21	106.85	106.99	107.24	110.18	112.89	112.35	117.41	109.53	107.08	106.88	106.83	106.83	
22	106.84	107.02	107.43	110.19	112.86	112.75	117.20	109.24	107.07	106.88	106.83	106.82	
23	106.86	107.05	107.45	110.21	112.85	113.05	116.97	108.90	107.07	106.87	106.83	106.83	
24	106.85	107.06	107.42	110.25	112.82	113.25	116.71	108.56	107.07	106.86	106.83	106.82	
25	106.85	107.08	107.39	110.35	112.78	113.40	116.45	108.26	107.06	106.85	106.83	106.81	
26	106.84	107.10	107.39	110.51	112.75	113.51	116.12	108.04	107.05	106.84	106.83	106.81	
27	106.85	107.12	107.39	110.66	112.72	113.65	115.80	107.85	107.05	106.83	106.83	106.81	
28	106.86	107.14	107.39	110.80	112.69	113.90	115.48	107.74	107.05	106.83	106.83	106.81	
29	106.85	107.13	107.43	110.86	112.65	114.14	115.11	107.66	107.04	106.82		106.80	
30	106.84	107.13	107.45	110.95	112.60	114.36	114.80	107.59	107.01	106.83		106.80	
31		107.15		111.01	112.58		114.50		106.98	106.83		106.79	
MEAN	106.76	106.96	107.26	109.77	111.86	112.50	116.27	110.71	107.22	106.88	106.83	106.82	
MAX	106.86	107.15	107.45	111.01	112.91	114.36	117.76	114.17	107.54	106.95	106.84	106.84	117.76
MIN	106.64	106.84	107.15	107.48	110.68	111.74	114.50	107.59	106.98	106.82	106.80	106.79	106.64

ANNUAL MAX MOMENTARY GAGE HEIGHT 117.76 M (MSL), AT 12.00 HOURS, ON OCT 17, 1978
ZERO GAGE AT BOTTOM ELEVATION 105.00 M (MSL), RIVER BED 101.30 M (MSL)
LEFT BANK ELEVATION 118.49 M (MSL)
RIGHT BANK ELEVATION 117.48 M (MSL), DRAINAGE AREA 106673 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	67.	111.	177.	268.	1792.	2675.	4235.	3898.	286.	131.	105.	105.	
2	65.	107.	177.	456.	1792.	2656.	4425.	3668.	274.	124.	100.	105.	
3	67.	113.	177.	481.	1792.	2630.	4625.	3456.	260.	120.	100.	105.	
4	67.	113.	177.	538.	1797.	2585.	4800.	3253.	257.	118.	98.	105.	
5	69.	111.	177.	652.	1814.	2526.	5038.	3067.	254.	116.	98.	105.	
6	71.	111.	180.	728.	1787.	2452.	5268.	2903.	249.	113.	100.	105.	
7	69.	111.	180.	842.	1726.	2374.	5475.	2760.	246.	113.	102.	100.	
8	69.	111.	177.	874.	1671.	2320.	5690.	2604.	240.	113.	105.	100.	
9	67.	111.	177.	991.	1640.	2265.	5915.	2452.	235.	116.	105.	100.	
10	67.	113.	180.	1090.	1615.	2221.	6187.	2270.	232.	122.	105.	100.	
11	67.	116.	182.	1193.	1600.	2204.	6727.	2199.	229.	129.	105.	102.	
12	69.	116.	185.	1243.	1699.	2183.	7114.	2067.	221.	127.	105.	105.	
13	85.	118.	187.	1265.	1858.	2177.	8160.	1930.	212.	124.	102.	102.	
14	87.	118.	190.	1274.	1968.	2188.	8896.	1797.	204.	122.	100.	102.	
15	105.	127.	193.	1288.	2072.	2215.	9400.	1676.	196.	120.	105.	102.	
16	107.	127.	198.	1301.	2210.	2221.	9721.	1565.	185.	116.	107.	105.	
17	109.	129.	204.	1315.	2464.	2210.	9876.	1460.	177.	116.	107.	105.	
18	109.	129.	212.	1328.	2689.	2232.	9845.	1355.	169.	113.	107.	107.	
19	109.	133.	224.	1342.	2838.	2270.	9603.	1265.	164.	113.	107.	105.	
20	109.	135.	212.	1342.	2896.	2338.	9316.	1171.	160.	116.	105.	105.	
21	109.	140.	201.	1351.	2884.	2533.	8868.	1059.	160.	116.	105.	105.	
22	107.	146.	254.	1355.	2864.	2793.	8290.	928.	157.	116.	105.	102.	
23	111.	153.	260.	1365.	2857.	2990.	7695.	780.	157.	113.	105.	105.	
24	109.	155.	252.	1385.	2838.	3133.	7092.	645.	157.	111.	105.	102.	
25	109.	160.	243.	1435.	2812.	3245.	6587.	531.	155.	109.	105.	100.	
26	107.	164.	243.	1515.	2793.	3333.	6050.	450.	153.	107.	105.	100.	
27	109.	169.	243.	1590.	2773.	3448.	5595.	385.	153.	105.	105.	100.	
28	111.	174.	243.	1660.	2753.	3660.	5222.	348.	153.	105.	105.	100.	
29	109.	172.	254.	1693.	2727.	3871.	4810.	322.	151.	102.		98.	
30	107.	172.	260.	1743.	2695.	4069.	4495.	301.	144.	105.		98.	
31		177.		1776.	2682.		4195.		138.	105.		96.	
TOTAL	2722.	4142.	6219.	36679.	70398.	80017.	209215.	52565.	6128.	3576.	2908.	3176.	477745. CMSDAY
MEAN	91.	134.	207.	1183.	2271.	2667.	6749.	1752.	198.	115.	104.	102.	1309. CMS
MAX	111.	177.	260.	1776.	2896.	4069.	9876.	3898.	286.	131.	107.	107.	9876. CMS
MIN	65.	107.	177.	268.	1600.	2177.	4195.	301.	138.	102.	98.	96.	65. CMS
RUNOFF	235.2	357.9	537.3	3169.1	6082.4	6913.5	18076.2	4541.6	529.5	309.0	251.3	274.4	41277.2 MCM

MOMENTARY PEAK 9876.01 CMS, AT 117.76 M (MSL), AT 12.00 HOURS, ON OCT 17, 1978
RUNOFF YIELD 12.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 92.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

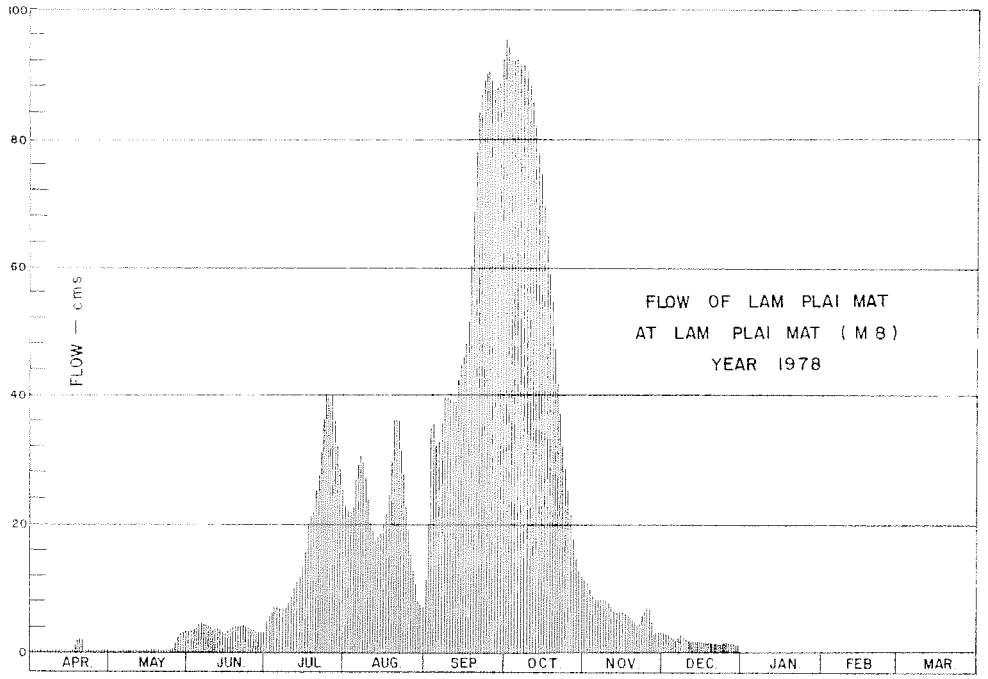
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 96 DISCHARGE MEASUREMENTS MADE IN 1967.

REMARKS — NO RECORDS ON JAN 1-MAR 31, 1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	149.99	149.99	150.76	150.80	152.92	151.73	156.76	151.76	150.72	*******	*******	*******	
2	149.99	149.99	150.78	151.02	152.83	152.77	156.85	151.67	150.72	*******	*******	*******	
3	149.99	149.99	150.81	151.10	152.86	154.04	156.79	151.56	150.69	*******	*******	*******	
4	149.99	149.99	150.86	151.28	153.09	154.06	156.75	151.45	150.67	*******	*******	*******	
5	149.99	149.99	150.92	151.28	153.46	153.76	156.75	151.40	150.60	*******	*******	*******	
6	149.99	149.99	150.97	151.26	153.66	153.84	156.76	151.42	150.54	*******	*******	*******	
7	149.98	149.99	150.96	151.26	153.64	154.15	156.74	151.42	150.64	*******	*******	*******	
8	149.97	149.98	150.93	151.23	153.46	154.39	156.72	151.41	150.68	*******	*******	*******	
9	149.97	149.98	150.88	151.26	153.12	154.42	156.73	151.40	150.62	*******	*******	*******	
10	149.97	149.98	150.82	151.28	152.71	154.36	156.69	151.37	150.60	*******	*******	*******	
11	149.97	149.98	150.79	151.39	152.53	154.33	156.62	151.25	150.59	*******	*******	*******	
12	149.98	150.00	150.84	151.56	152.40	154.34	156.53	151.18	150.56	*******	*******	*******	
13	150.05	150.00	150.84	151.68	152.45	154.63	156.42	151.17	150.49	*******	*******	*******	
14	150.04	150.05	150.74	151.78	152.53	154.74	156.32	151.19	150.50	*******	*******	*******	
15	150.05	150.08	150.69	151.87	152.62	154.85	156.20	151.21	150.50	*******	*******	*******	
16	150.03	150.08	150.79	152.13	152.73	155.00	156.06	151.19	150.49	*******	*******	*******	
17	150.03	150.08	150.83	152.46	152.92	155.28	155.87	151.16	150.48	*******	*******	*******	
18	150.53	150.07	150.85	152.72	153.23	155.66	155.66	151.11	150.48	*******	*******	*******	
19	150.53	150.07	150.86	152.85	153.87	156.00	155.39	151.06	150.47	*******	*******	*******	
20	150.53	150.07	150.85	153.01	154.14	156.28	155.04	150.97	150.46	*******	*******	*******	
21	150.03	150.07	150.86	153.34	154.10	156.48	154.63	150.95	150.45	*******	*******	*******	
22	150.00	150.07	150.93	153.73	153.84	156.58	154.16	150.94	150.44	*******	*******	*******	
23	150.00	150.08	150.89	154.14	153.52	156.64	153.79	151.08	150.43	*******	*******	*******	
24	150.00	150.08	150.86	154.43	153.16	156.69	153.50	151.18	150.45	*******	*******	*******	
25	149.99	150.08	150.82	154.34	152.73	156.70	153.20	151.24	150.48	*******	*******	*******	
26	149.99	150.18	150.80	154.44	152.28	156.65	152.87	151.26	150.45	*******	*******	*******	
27	149.99	150.55	150.79	154.38	151.94	156.61	152.52	150.82	150.44	*******	*******	*******	
28	149.99	150.69	150.75	154.04	151.70	156.61	152.22	150.70	150.42	*******	*******	*******	
29	149.99	150.72	150.74	153.66	151.36	156.63	151.98	150.76	150.40	*******		*******	
30	149.99	150.75	150.74	153.31	151.30	156.68	151.86	150.75	150.38	*******		*******	
31		150.76		153.07	151.27		151.79		150.38	*******		*******	
MEAN	150.05	150.14	150.83	152.45	152.85	155.16	155.17	151.20	150.52	*******	*******	*******	
MAX	150.53	150.76	150.97	154.44	154.14	156.70	156.85	151.76	150.72	*******	*******	*******	156.85
MIN	149.97	149.98	150.69	150.80	151.27	151.73	151.79	150.70	150.38	*******	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 156.86 M (MSL), AT 18.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 149.50 M (MSL), RIVER BED 149.11 M (MSL)
LEFT BANK ELEVATION 155.76 M (MSL)
RIGHT BANK ELEVATION 155.64 M (MSL), DRAINAGE AREA 5025 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	3.32	3.60	22.70	11.17	92.32	11.44	3.04	*******	*******	*******	
2	0.00	0.00	3.46	5.16	21.80	21.40	95.20	10.63	3.04	*******	*******	*******	
3	0.00	0.00	3.67	5.80	22.10	35.38	93.28	9.64	2.84	*******	*******	*******	
4	0.00	0.00	4.02	7.24	24.49	35.62	92.00	8.65	2.72	*******	*******	*******	
5	0.00	0.00	4.44	7.24	28.56	32.02	92.00	8.20	2.30	*******	*******	*******	
6	0.00	0.00	4.79	7.08	30.82	32.98	92.32	8.38	2.00	*******	*******	*******	
7	0.00	0.00	4.72	7.08	30.58	36.70	91.68	8.38	2.54	*******	*******	*******	
8	0.00	0.00	4.51	6.84	28.56	39.67	91.04	8.29	2.78	*******	*******	*******	
9	0.00	0.00	4.16	7.08	24.82	40.08	91.36	8.20	2.42	*******	*******	*******	
10	0.00	0.00	3.74	7.24	20.60	39.28	90.08	7.96	2.30	*******	*******	*******	
11	0.00	0.00	3.53	8.12	18.80	38.89	87.84	7.00	2.25	*******	*******	*******	
12	0.00	0.00	3.88	9.64	17.50	39.02	85.10	6.44	2.10	*******	*******	*******	
13	0.00	0.00	3.88	10.72	18.00	43.02	81.80	6.36	1.75	*******	*******	*******	
14	0.00	0.00	3.18	11.62	18.80	44.60	78.80	6.52	1.80	*******	*******	*******	
15	0.00	0.00	2.84	12.43	19.70	46.30	75.20	6.68	1.80	*******	*******	*******	
16	0.00	0.00	3.53	14.80	20.80	48.80	71.42	6.52	1.75	*******	*******	*******	
17	0.00	0.00	3.81	18.10	22.70	53.64	66.35	6.28	1.70	*******	*******	*******	
18	1.95	0.00	3.95	20.70	26.03	61.38	61.38	5.88	1.70	*******	*******	*******	
19	1.95	0.00	4.02	22.00	33.34	69.80	55.62	5.48	1.65	*******	*******	*******	
20	1.95	0.00	3.95	23.61	36.58	77.60	49.48	4.79	1.60	*******	*******	*******	
21	0.00	0.00	4.02	27.24	36.10	83.60	43.02	4.65	1.55	*******	*******	*******	
22	0.00	0.00	4.51	31.66	32.98	86.60	36.82	4.58	1.50	*******	*******	*******	
23	0.00	0.00	4.23	36.58	29.22	88.48	32.38	5.64	1.45	*******	*******	*******	
24	0.00	0.00	4.02	40.22	25.26	90.08	29.00	6.44	1.55	*******	*******	*******	
25	0.00	0.00	3.74	39.02	20.80	90.40	25.70	6.92	1.70	*******	*******	*******	
26	0.00	0.32	3.60	40.36	16.30	88.80	22.20	7.08	1.55	*******	*******	*******	
27	0.00	2.05	3.53	39.54	13.06	87.52	18.70	3.74	1.50	*******	*******	*******	
28	0.00	2.84	3.25	35.38	10.90	87.52	15.70	2.90	1.40	*******	*******	*******	
29	0.00	3.04	3.18	30.82	7.88	88.16	13.42	3.32	1.30	*******		*******	
30	0.00	3.25	3.18	26.91	7.40	89.76	12.34	3.25	1.20	*******		*******	
31		3.32		24.27	7.16		11.71		1.20	*******		*******	
TOTAL	5.85	14.82	114.66	588.10	694.34	1728.27	1895.26	200.24	59.98	*******	*******	*******	******** CMSDAY
MEAN	0.19	0.48	3.82	18.97	22.40	57.61	61.14	6.67	1.93	*******	*******	*******	******* CMS
MAX	1.95	3.32	4.79	40.36	36.58	90.40	95.20	11.44	3.04	*******	*******	*******	95.20 CMS
MIN	0.00	0.00	2.84	3.60	7.16	11.17	11.71	2.90	1.20	*******	*******	*******	******* CMS
RUNOFF	0.505	1.280	9.907	50.812	59.991	149.322	163.750	17.301	5.182	*******	*******	*******	******** MCM

MOMENTARY PEAK 95.52 CMS, AT 156.86 M (MSL), AT 18.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 19.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MUN RIVER BASIN

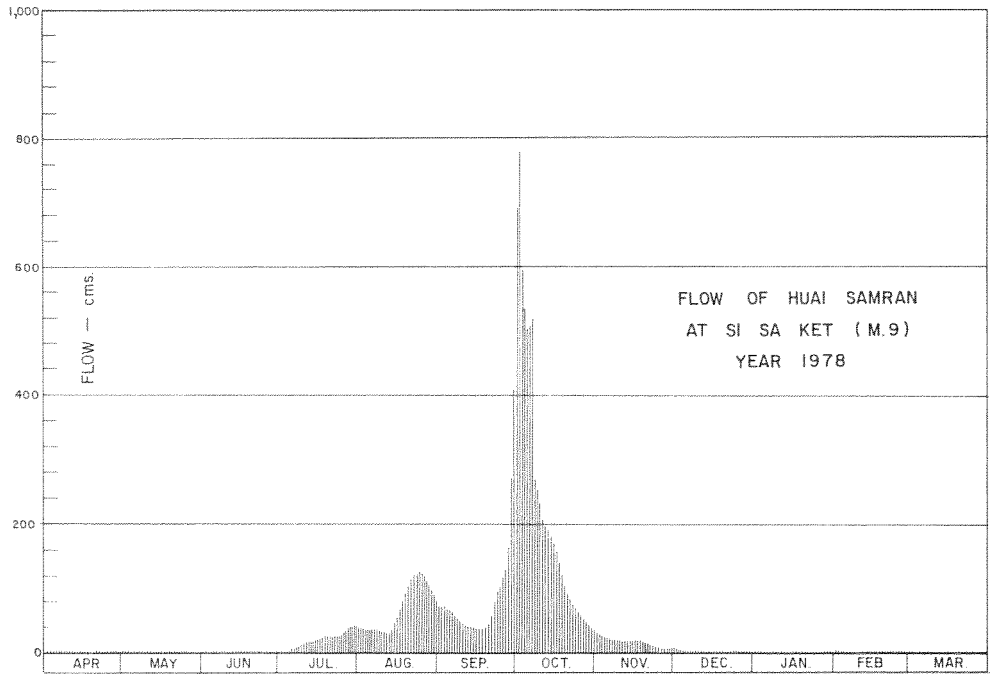
HUAI SAMRAN AT SI SA KET, SI SA KET (M.9)

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.S./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	1951, 1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1951, 1972 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 74 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	109.10	109.09	109.25	109.32	114.42	115.95	121.63	117.54	110.23	109.51	109.20	109.14	
2	109.09	109.08	109.21	109.40	114.32	115.85	121.72	117.25	110.11	109.56	109.18	109.14	
3	109.10	109.08	109.20	109.59	114.22	115.83	121.55	116.95	109.97	109.43	109.17	109.14	
4	109.08	109.08	109.19	110.12	114.16	115.80	121.30	116.65	109.88	109.36	109.20	109.14	
5	109.10	109.11	109.20	110.38	114.16	115.72	121.21	116.33	109.87	109.34	109.22	109.14	
6	109.08	109.36	109.18	110.68	114.21	115.55	121.22	116.03	109.94	109.31	109.21	109.13	
7	109.09	109.28	109.17	110.95	114.19	115.32	121.26	115.72	109.97	109.31	109.22	109.13	
8	109.07	109.17	109.16	111.16	114.14	115.10	121.24	115.38	109.95	109.30	109.20	109.13	
9	109.09	109.13	109.17	111.48	114.08	114.86	121.18	115.04	109.90	109.30	109.15	109.14	
10	109.11	109.09	109.17	111.84	113.97	114.68	121.12	114.73	109.87	109.30	109.19	109.12	
11	109.08	109.21	109.16	112.17	113.81	114.56	121.06	114.41	109.77	109.29	109.19	109.12	
12	109.07	109.17	109.16	112.43	113.81	114.48	121.02	114.09	109.71	109.26	109.18	109.09	
13	109.11	109.22	109.22	112.61	114.09	114.40	121.00	113.78	109.71	109.30	109.14	109.10	
14	109.10	109.16	109.19	112.70	114.50	114.31	120.95	113.46	109.72	109.28	109.15	109.09	
15	109.32	109.19	109.17	112.77	115.05	114.27	120.92	113.15	109.67	109.27	109.17	109.08	
16	109.31	109.37	109.14	112.86	115.45	114.22	120.86	112.88	109.59	109.26	109.22	109.09	
17	109.21	109.32	109.13	113.04	115.86	114.18	120.77	112.61	109.53	109.22	109.19	109.10	
18	109.20	109.26	109.24	113.19	116.18	114.30	120.64	112.35	109.49	109.26	109.16	109.10	
19	109.16	109.22	109.37	113.23	116.44	114.46	120.49	112.11	109.45	109.26	109.15	109.09	
20	109.13	109.20	109.29	113.21	116.75	114.59	120.31	111.87	109.57	109.24	109.15	109.08	
21	109.10	109.17	109.23	113.19	117.00	115.13	120.12	111.62	109.59	109.23	109.15	109.11	
22	109.12	109.18	109.25	113.23	117.12	115.90	119.90	111.35	109.59	109.22	109.13	109.14	
23	109.14	109.26	109.27	113.34	117.20	116.39	119.72	111.09	109.60	109.23	109.17	109.14	
24	109.11	109.24	109.24	113.46	117.24	116.73	119.51	110.90	109.58	109.21	109.24	109.10	
25	109.10	109.50	109.23	113.68	117.25	116.98	119.30	110.75	109.54	109.18	109.23	109.06	
26	109.10	109.52	109.22	113.99	117.19	117.15	119.10	110.65	109.54	109.16	109.23	109.10	
27	109.12	109.56	109.20	114.30	117.08	117.39	118.86	110.57	109.41	109.16	109.20	109.10	
28	109.11	109.43	109.20	114.46	116.93	117.94	118.62	110.45	109.40	109.16	109.14	109.09	
29	109.10	109.34	109.19	114.55	116.74	119.03	118.37	110.38	109.37	109.18		109.07	
30	109.10	109.31	109.18	114.54	116.52	120.59	118.10	110.32	109.37	109.18		109.10	
31		109.29		114.49	116.20		117.84		109.41	109.15		109.12	
MEAN	109.12	109.24	109.21	112.46	115.49	115.72	120.35	113.35	109.69	109.27	109.18	109.11	
MAX	109.32	109.56	109.37	114.55	117.25	120.59	121.72	117.54	110.23	109.56	109.24	109.14	121.72
MIN	109.07	109.08	109.13	109.32	113.81	114.18	117.84	110.32	109.37	109.15	109.13	109.06	109.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 121.79 M (MSL), AT 4.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 109.00 M (MSL), RIVER BED 108.70 M (MSL)
LEFT BANK ELEVATION 123.00 M (MSL)
RIGHT BANK ELEVATION 124.70 M (MSL), DRAINAGE AREA 3026 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.09	0.45	0.68	40.00	73.50	696.80	30.60	4.75	1.44	0.30	0.18	
2	0.09	0.08	0.33	1.00	38.50	70.50	777.59	28.35	4.15	1.64	0.26	0.18	
3	0.10	0.08	0.30	1.76	37.08	69.90	640.50	26.50	3.45	1.12	0.24	0.18	
4	0.08	0.08	0.28	4.20	36.24	69.00	528.00	24.80	3.00	0.84	0.30	0.18	
5	0.10	0.12	0.30	5.50	36.24	66.60	502.80	23.52	2.95	0.76	0.36	0.18	
6	0.08	0.84	0.26	7.00	36.94	62.25	505.60	22.32	3.30	0.64	0.33	0.16	
7	0.09	0.54	0.24	8.40	36.66	56.50	516.80	21.08	3.45	0.64	0.36	0.16	
8	0.07	0.24	0.22	9.66	35.96	52.00	277.40	19.99	3.35	0.60	0.30	0.16	
9	0.09	0.16	0.24	11.66	35.14	47.28	251.20	19.23	3.10	0.60	0.20	0.18	
10	0.12	0.09	0.24	14.18	33.71	44.16	227.80	18.90	2.95	0.60	0.28	0.14	
11	0.08	0.33	0.22	16.49	31.63	42.16	207.80	18.55	2.48	0.57	0.28	0.14	
12	0.07	0.24	0.22	18.31	31.63	40.90	195.60	18.20	2.24	0.48	0.26	0.09	
13	0.12	0.36	0.36	19.57	35.27	39.70	189.50	18.09	2.24	0.60	0.18	0.10	
14	0.10	0.22	0.28	20.20	41.20	38.35	177.75	18.06	2.28	0.54	0.20	0.09	
15	0.68	0.28	0.24	20.76	51.00	37.78	170.70	18.04	2.08	0.51	0.24	0.08	
16	0.64	0.88	0.18	21.54	59.75	37.08	159.00	18.03	1.76	0.48	0.36	0.09	
17	0.33	0.68	0.16	23.30	70.80	36.52	144.15	18.01	1.52	0.36	0.28	0.10	
18	0.30	0.48	0.42	24.80	80.80	38.20	127.10	17.75	1.36	0.48	0.22	0.10	
19	0.22	0.36	0.88	25.23	89.90	40.60	111.75	16.07	1.20	0.48	0.20	0.09	
20	0.16	0.30	0.57	25.01	102.00	42.64	99.15	14.39	1.68	0.42	0.20	0.08	
21	0.10	0.24	0.39	24.80	113.00	52.60	89.50	12.64	1.76	0.39	0.20	0.12	
22	0.14	0.26	0.45	25.23	119.00	72.00	80.00	10.80	1.76	0.36	0.16	0.18	
23	0.18	0.48	0.51	26.44	123.00	88.15	73.70	9.24	1.80	0.39	0.24	0.18	
24	0.12	0.42	0.42	27.76	125.00	101.20	66.62	8.10	1.72	0.33	0.42	0.10	
25	0.10	1.40	0.39	30.18	125.50	112.10	60.75	7.35	1.56	0.26	0.39	0.06	
26	0.10	1.48	0.36	33.97	122.50	120.50	55.60	6.85	1.56	0.22	0.39	0.10	
27	0.14	1.64	0.30	38.20	117.00	132.95	50.20	6.45	1.04	0.22	0.30	0.10	
28	0.12	1.12	0.30	40.60	109.85	166.60	45.76	5.85	1.00	0.22	0.18	0.09	
29	0.10	0.76	0.28	42.00	101.60	254.95	41.32	5.50	0.88	0.26		0.07	
30	0.10	0.64	0.26	41.84	92.80	403.90	37.40	5.20	0.88	0.26		0.10	
31		0.57		41.05	81.50		33.88		1.04	0.20		0.14	
TOTAL	4.82	15.46	10.05	651.32	2191.20	2510.57	7141.71	488.46	68.29	16.91	7.63	3.90	13110.31 CMSDAY
MEAN	0.16	0.50	0.33	21.01	70.68	83.69	230.38	16.28	2.20	0.55	0.27	0.13	35.92 CMS
MAX	0.68	1.64	0.88	42.00	125.50	403.90	777.59	30.60	4.75	1.64	0.42	0.18	777.59 CMS
MIN	0.07	0.08	0.16	0.68	31.63	36.52	33.88	5.20	0.88	0.20	0.16	0.06	0.06 CMS
RUNOFF	0.416	1.336	0.868	56.274	189.320	216.913	617.044	42.203	5.900	1.461	0.659	0.337	1132.731 MCM

MOMENTARY PEAK 849.70 CMS, AT 121.79 M (MSL), AT 4.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 11.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 280.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 230 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — NO RECORDS DURING APR 1-JUL 2, 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

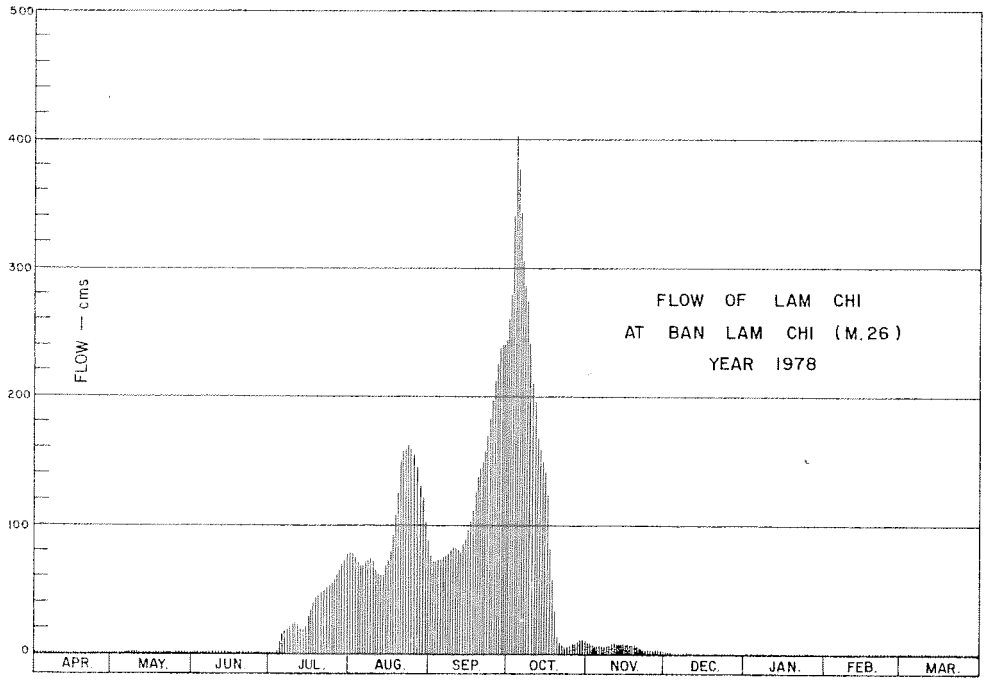
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	127.47	127.49	127.64	127.77	133.92	133.95	136.73	129.78	128.48	127.55	127.52	127.57	
2	127.47	127.56	127.65	127.88	133.88	133.69	136.94	129.67	128.44	127.67	127.52	127.49	
3	127.47	127.57	127.65	127.85	133.77	133.67	137.13	129.55	128.43	127.66	127.56	127.49	
4	127.46	127.55	127.63	128.67	133.62	133.70	137.23	129.44	128.37	127.68	127.53	127.52	
5	127.43	127.53	127.65	130.10	133.51	133.73	137.19	129.32	128.27	127.70	127.52	127.52	
6	127.42	127.56	127.63	130.48	133.53	133.79	137.04	129.26	128.22	127.67	127.55	127.52	
7	127.41	127.62	127.68	130.58	133.63	133.85	136.88	129.24	128.15	127.72	127.57	127.51	
8	127.42	127.62	127.62	130.77	133.73	133.96	136.74	129.24	128.08	127.65	127.56	127.50	
9	127.42	127.57	127.52	130.95	133.75	134.04	136.58	129.35	128.03	127.61	127.55	127.49	
10	127.43	127.53	127.59	131.08	133.65	134.04	136.43	129.51	128.00	127.61	127.52	127.49	
11	127.45	127.55	127.60	131.08	133.45	133.99	136.27	129.59	127.96	127.65	127.51	127.48	
12	127.46	127.61	127.61	130.92	133.26	133.89	136.08	129.59	127.91	127.52	127.54	127.49	
13	127.53	127.73	127.59	130.71	133.23	134.12	135.89	129.57	127.86	127.61	127.53	127.54	
14	127.53	127.71	127.59	130.63	133.38	134.27	135.72	129.56	127.79	127.63	127.53	127.83	
15	127.55	127.63	127.59	131.01	133.59	134.59	135.49	129.57	127.80	127.67	127.52	127.52	
16	127.56	127.63	127.60	131.53	133.83	134.68	135.10	129.50	127.78	127.70	127.56	127.49	
17	127.63	127.69	127.64	131.94	134.30	135.05	134.39	129.42	127.72	127.78	127.58	127.48	
18	127.60	127.68	127.69	132.24	134.85	135.34	133.17	129.35	127.70	127.61	127.58	127.50	
19	127.57	127.66	127.68	132.43	135.28	135.49	131.53	129.24	127.68	127.59	127.59	127.51	
20	127.56	127.65	127.83	132.52	135.59	135.58	130.17	129.13	127.67	127.58	127.58	127.51	
21	127.55	127.64	127.90	132.57	135.72	135.69	129.52	129.03	127.63	127.54	127.55	127.48	
22	127.51	127.65	127.90	132.65	135.77	135.84	129.32	128.89	127.58	127.58	127.52	127.48	
23	127.55	127.63	127.88	132.72	135.84	136.02	129.22	128.78	127.69	127.53	127.54	127.48	
24	127.51	127.74	127.87	132.80	135.82	136.20	129.32	128.70	127.59	127.55	127.53	127.46	
25	127.50	127.68	127.86	132.88	135.76	136.32	129.36	128.63	127.69	127.54	127.58	127.46	
26	127.48	127.60	127.87	133.04	135.67	136.44	129.44	128.59	127.69	127.55	127.56	127.46	
27	127.46	127.60	127.82	133.25	135.55	136.54	129.67	128.62	127.68	127.54	127.55	127.48	
28	127.46	127.63	127.87	133.47	135.38	136.57	129.84	128.62	127.61	127.56	127.57	127.48	
29	127.48	127.58	127.77	133.61	135.14	136.58	129.89	128.61	127.66	127.54		127.48	
30	127.49	127.56	127.72	133.77	134.79	136.64	129.87	128.55	127.75	127.56		127.47	
31		127.61		133.87	134.37		129.85		127.64	127.56		127.46	
MEAN	127.49	127.61	127.70	131.48	134.44	134.94	133.48	129.20	127.89	127.61	127.55	127.50	
MAX	127.63	127.74	127.90	133.87	135.84	136.64	137.23	129.78	128.48	127.78	127.59	127.83	137.23
MIN	127.41	127.49	127.52	127.77	133.23	133.67	129.22	128.55	127.58	127.52	127.51	127.46	127.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 137.24 M (MSL), AT 18.00 HOURS, ON OCT 4, 1978

ZERO GAGE AT BOTTOM ELEVATION 127.00 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 2927 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.09	0.28	0.54	78.90	79.80	265.40	10.91	2.92	0.15	0.12	0.17	
2	0.07	0.16	0.30	0.84	77.72	72.34	309.19	9.96	2.76	0.34	0.12	0.09	
3	0.07	0.17	0.30	0.75	74.56	71.82	359.00	9.05	2.72	0.32	0.16	0.09	
4	0.06	0.15	0.26	3.75	70.52	72.60	391.10	8.28	2.48	0.36	0.13	0.12	
5	0.03	0.13	0.30	13.73	67.84	73.44	377.00	7.52	2.08	0.40	0.12	0.12	
6	0.02	0.16	0.26	17.30	68.32	75.12	333.80	7.16	1.88	0.34	0.15	0.12	
7	0.01	0.24	0.36	18.30	70.78	76.85	295.60	7.04	1.65	0.44	0.17	0.11	
8	0.02	0.24	0.24	20.20	73.44	80.10	267.20	7.04	1.44	0.30	0.16	0.10	
9	0.02	0.17	0.12	22.35	74.00	82.50	240.20	7.70	1.29	0.22	0.15	0.09	
10	0.03	0.13	0.19	24.04	71.30	82.50	219.20	8.77	1.20	0.22	0.12	0.09	
11	0.05	0.15	0.20	24.04	66.40	81.00	200.70	9.33	1.08	0.30	0.11	0.08	
12	0.06	0.22	0.22	21.96	61.88	78.61	182.30	9.33	0.93	0.12	0.14	0.09	
13	0.13	0.46	0.19	19.60	61.19	84.90	166.86	9.19	0.78	0.22	0.13	0.14	
14	0.13	0.42	0.19	18.80	64.72	89.40	155.00	9.12	0.58	0.26	0.13	0.69	
15	0.15	0.26	0.19	23.13	69.76	100.03	140.92	9.19	0.60	0.34	0.12	0.12	
16	0.16	0.26	0.20	29.95	76.27	103.36	120.60	8.70	0.56	0.40	0.16	0.09	
17	0.26	0.38	0.28	36.14	90.30	118.40	93.09	8.14	0.44	0.56	0.18	0.08	
18	0.20	0.36	0.38	41.32	109.95	132.28	59.84	7.70	0.40	0.22	0.18	0.10	
19	0.17	0.32	0.36	44.77	129.04	140.92	29.95	7.04	0.36	0.19	0.19	0.11	
20	0.16	0.30	0.69	46.50	146.81	146.22	14.35	6.38	0.34	0.18	0.18	0.11	
21	0.15	0.28	0.90	47.50	155.00	153.07	8.84	5.78	0.26	0.14	0.15	0.08	
22	0.11	0.30	0.90	49.10	158.25	163.16	7.52	4.94	0.18	0.18	0.12	0.08	
23	0.15	0.26	0.84	50.50	163.16	177.20	6.92	4.30	0.38	0.13	0.14	0.08	
24	0.11	0.48	0.81	52.10	161.68	193.00	7.52	3.90	0.19	0.15	0.13	0.06	
25	0.10	0.36	0.78	53.70	157.60	206.20	7.76	3.55	0.38	0.14	0.18	0.06	
26	0.08	0.20	0.81	56.98	151.81	220.60	8.28	3.36	0.38	0.15	0.16	0.06	
27	0.06	0.20	0.66	61.65	144.45	234.60	9.96	3.50	0.36	0.14	0.15	0.08	
28	0.06	0.26	0.81	66.88	134.56	238.80	11.44	3.50	0.22	0.16	0.17	0.08	
29	0.08	0.18	0.54	70.26	122.44	240.20	11.88	3.45	0.32	0.14		0.08	
30	0.09	0.16	0.44	74.56	107.52	249.80	11.70	3.20	0.50	0.16		0.07	
31		0.22		77.43	92.47		11.52		0.28	0.16		0.06	
TOTAL	2.86	7.67	13.00	1088.67	3152.64	3918.22	4324.63	207.03	29.94	7.53	4.12	3.50	12759.80 CMSDAY
MEAN	0.10	0.25	0.43	35.12	101.70	130.61	139.50	6.90	0.97	0.24	0.15	0.11	34.96 CMS
MAX	0.26	0.48	0.90	77.43	163.16	249.80	391.10	10.91	2.92	0.56	0.19	0.69	391.10 CMS
MIN	0.01	0.09	0.12	0.54	61.19	71.82	6.92	3.20	0.18	0.12	0.11	0.06	0.01 CMS
RUNOFF	0.247	0.663	1.123	94.061	272.388	338.534	373.648	17.887	2.587	0.651	0.356	0.302	1102.446 MCM

MOMENTARY PEAK 394.80 CMS, AT 137.24 M (MSL), AT 18.00 HOURS, ON OCT 4, 1978

RUNOFF YIELD 11.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 134.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MUN RIVER BASIN

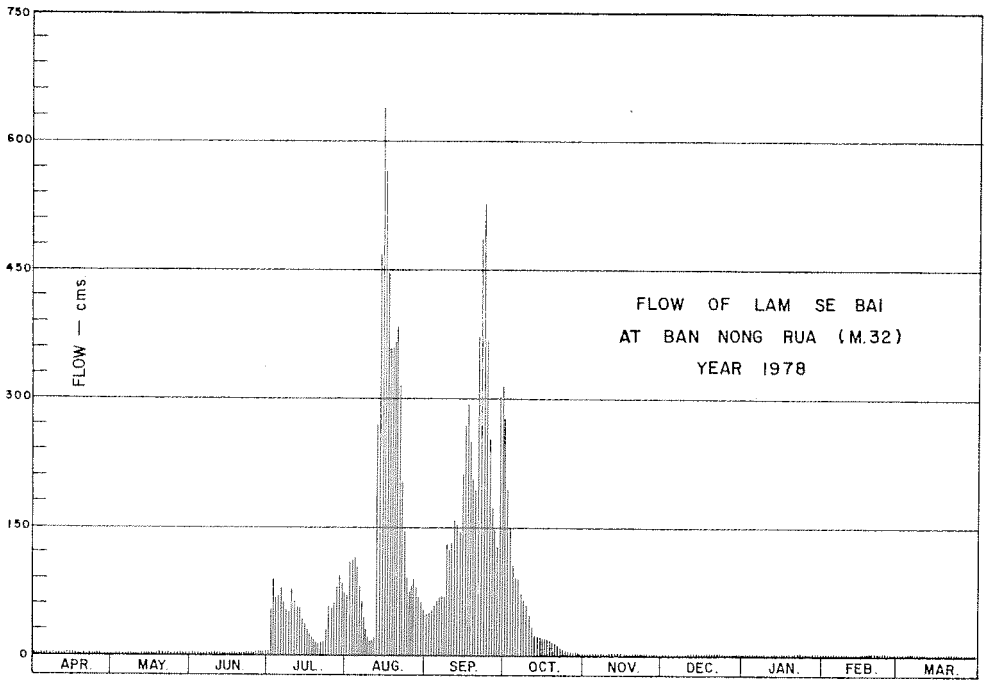
LAM SE BAI AT BAN NONG RUA, YASOTHON (M.32)

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.-H.S./R.I.D. LAM SAE
LOCATION	ON RIGHT BANK NEAR THE GAGE SITE.
ELEVATION	+128.102 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	120.22	120.31	120.34	121.08	124.28	123.77	125.81	120.61	120.37	120.26	120.19	120.14	
2	120.23	120.31	120.34	123.77	124.58	123.82	125.26	120.62	120.35	120.26	120.19	120.14	
3	120.23	120.32	120.34	124.36	124.61	123.92	124.85	120.61	120.35	120.26	120.19	120.13	
4	120.22	120.32	120.34	124.09	124.54	124.03	124.55	120.59	120.35	120.24	120.16	120.13	
5	120.23	120.32	120.34	124.14	124.36	124.11	124.41	120.58	120.33	120.24	120.18	120.13	
6	120.24	120.32	120.34	124.25	124.13	124.13	124.38	120.58	120.33	120.24	120.16	120.13	
7	120.25	120.32	120.40	124.02	123.69	124.14	124.19	120.58	120.33	120.24	120.18	120.12	
8	120.25	120.33	120.43	123.89	123.32	124.80	124.03	120.58	120.33	120.24	120.18	120.12	
9	120.25	120.35	120.51	123.89	122.94	124.71	123.96	120.58	120.33	120.24	120.18	120.12	
10	120.26	120.35	120.53	124.26	122.68	124.83	123.76	120.56	120.33	120.24	120.17	120.12	
11	120.26	120.37	120.57	124.08	122.94	125.05	123.49	120.53	120.32	120.24	120.19	120.12	
12	120.25	120.37	120.57	123.96	125.49	125.04	123.24	120.51	120.32	120.24	120.17	120.14	
13	120.25	120.37	120.56	123.95	126.55	124.92	123.07	120.49	120.32	120.23	120.17	120.10	
14	120.26	120.38	120.56	123.70	127.12	125.43	123.00	120.49	120.32	120.23	120.17	120.10	
15	120.28	120.40	120.56	123.58	126.97	125.83	122.97	120.49	120.30	120.23	120.17	120.10	
16	120.28	120.40	120.56	123.45	126.54	125.96	122.87	120.49	120.30	120.23	120.17	120.10	
17	120.27	120.40	120.56	123.26	126.24	125.85	122.75	120.49	120.30	120.23	120.16	120.10	
18	120.28	120.40	120.57	123.04	126.26	125.43	122.64	120.49	120.29	120.20	120.16	120.09	
19	120.27	120.40	120.57	122.73	126.32	125.33	122.50	120.47	120.28	120.20	120.16	120.09	
20	120.27	120.41	120.56	122.37	126.34	125.87	122.34	120.46	120.28	120.20	120.16	120.09	
21	120.28	120.40	120.55	122.29	126.07	126.55	122.17	120.46	120.28	120.23	120.16	120.09	
22	120.28	120.40	120.65	122.54	125.47	126.80	121.96	120.44	120.28	120.20	120.15	120.08	
23	120.27	120.39	120.75	122.75	124.73	126.75	121.54	120.44	120.26	120.20	120.15	120.08	
24	120.27	120.39	120.80	123.40	124.30	126.43	121.29	120.42	120.26	120.20	120.15	120.08	
25	120.28	120.39	120.66	124.18	124.21	125.87	121.14	120.42	120.26	120.19	120.15	120.07	
26	120.27	120.39	120.65	124.16	124.41	125.08	121.03	120.40	120.26	120.19	120.15	120.07	
27	120.28	120.39	120.74	124.11	124.33	124.95	120.94	120.40	120.26	120.19	120.15	120.07	
28	120.30	120.39	120.82	124.30	124.18	124.75	120.86	120.38	120.26	120.19	120.14	120.07	
29	120.30	120.35	120.85	124.42	124.08	125.98	120.76	120.38	120.26	120.19		120.07	
30	120.30	120.34	120.75	124.31	123.95	126.06	120.63	120.38	120.26	120.19		120.06	
31		120.34		124.13	123.79		120.64		120.26	120.19		120.06	
MEAN	120.26	120.36	120.56	123.63	124.82	125.21	122.81	120.50	120.30	120.22	120.17	120.10	
MAX	120.30	120.41	120.85	124.42	127.12	126.80	125.81	120.62	120.37	120.26	120.19	120.14	127.12
MIN	120.22	120.31	120.34	121.08	122.68	123.77	120.63	120.38	120.26	120.19	120.14	120.06	120.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 127.21 M (MSL), AT 18.00 HOURS, ON AUG 14, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	1.24	1.36	4.40	80.40	47.50	264.80	2.44	1.48	1.04	0.76	0.56	
2	0.92	1.24	1.36	47.50	108.00	50.00	182.20	2.48	1.40	1.04	0.76	0.56	
3	0.92	1.28	1.36	87.40	111.00	55.20	135.00	2.44	1.40	1.04	0.76	0.52	
4	0.88	1.28	1.36	66.30	104.00	62.10	105.00	2.36	1.40	0.96	0.64	0.52	
5	0.92	1.28	1.36	69.80	87.40	67.70	91.90	2.32	1.32	0.96	0.72	0.52	
6	0.96	1.28	1.36	78.00	69.10	69.10	89.20	2.32	1.32	0.96	0.64	0.52	
7	1.00	1.28	1.60	61.40	43.50	69.80	73.30	2.32	1.32	0.96	0.72	0.48	
8	1.00	1.32	1.72	53.50	28.86	130.00	62.10	2.32	1.32	0.96	0.72	0.48	
9	1.00	1.40	2.04	53.50	20.86	121.00	57.60	2.32	1.32	0.96	0.72	0.48	
10	1.04	1.40	2.12	78.80	17.58	133.00	47.00	2.24	1.32	0.96	0.68	0.48	
11	1.04	1.48	2.28	65.60	20.86	157.00	34.65	2.12	1.28	0.96	0.76	0.48	
12	1.00	1.48	2.28	57.60	212.60	155.80	26.70	2.04	1.28	0.96	0.68	0.56	
13	1.00	1.48	2.24	57.00	448.50	142.20	23.10	1.96	1.28	0.92	0.68	0.40	
14	1.04	1.52	2.24	44.00	637.00	204.20	21.70	1.96	1.28	0.92	0.68	0.40	
15	1.12	1.60	2.24	38.20	584.50	268.40	21.28	1.96	1.20	0.92	0.68	0.40	
16	1.12	1.60	2.24	33.25	446.00	293.00	19.91	1.96	1.20	0.92	0.68	0.40	
17	1.08	1.60	2.24	27.20	356.40	272.00	18.40	1.96	1.20	0.92	0.64	0.40	
18	1.12	1.60	2.28	22.50	361.60	204.20	17.14	1.96	1.16	0.80	0.64	0.36	
19	1.08	1.60	2.28	18.16	377.60	190.90	15.60	1.88	1.12	0.80	0.64	0.36	
20	1.08	1.64	2.24	14.30	383.20	275.60	14.00	1.84	1.12	0.80	0.64	0.36	
21	1.12	1.60	2.20	13.51	315.70	448.50	12.43	1.84	1.12	0.92	0.64	0.36	
22	1.12	1.60	2.60	16.04	209.80	526.00	10.54	1.76	1.12	0.80	0.60	0.32	
23	1.08	1.56	3.00	18.40	123.00	509.50	7.18	1.76	1.04	0.80	0.60	0.32	
24	1.08	1.56	3.20	31.50	82.00	410.80	5.64	1.68	1.04	0.80	0.60	0.32	
25	1.12	1.56	2.64	72.60	74.80	275.60	4.74	1.68	1.04	0.76	0.60	0.28	
26	1.08	1.56	2.60	71.20	91.90	160.60	4.15	1.60	1.04	0.76	0.60	0.28	
27	1.12	1.56	2.96	67.70	84.70	145.50	3.76	1.60	1.04	0.76	0.60	0.28	
28	1.20	1.56	3.28	82.00	72.60	125.00	3.44	1.52	1.04	0.76	0.56	0.28	
29	1.20	1.40	3.40	92.80	65.60	297.00	3.04	1.52	1.04	0.76		0.28	
30	1.20	1.36	3.00	82.90	57.00	313.60	2.52	1.52	1.04	0.76		0.24	
31		1.36		69.10	48.50		2.56		1.04	0.76		0.24	
TOTAL	31.52	45.28	67.08	1596.16	5724.56	6180.80	1380.58	59.68	37.32	27.40	18.64	12.44	15181.44 CMSDAY
MEAN	1.05	1.46	2.24	51.49	184.66	206.03	44.53	1.99	1.20	0.88	0.67	0.40	41.59 CMS
MAX	1.20	1.64	3.40	92.80	637.00	526.00	264.80	2.48	1.48	1.04	0.76	0.56	637.00 CMS
MIN	0.88	1.24	1.36	4.40	17.58	47.50	2.52	1.52	1.04	0.76	0.56	0.24	0.24 CMS
RUNOFF	2.723	3.912	5.796	137.908	494.601	534.021	119.282	5.156	3.224	2.367	1.610	1.075	1311.676 MCM

MOMENTARY PEAK 668.50 CMS, AT 127.21 M (MSL), AT 18.00 HOURS, ON AUG 14, 1978
RUNOFF YIELD 25.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 404.17 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MUN RIVER BASIN

LAM SIEO NOI AT BAN YANG LOENG, ROI ET (M.35)

LOCATION — LAT. 15°-38'-49" N., LONG. 103°-45'-00" E., ON RIGHT BANK AT THE HIGHWAY BRIDGE, TAMBON SUNG YANG, AMPHOE SUWANNAPHUM, ROI ET.

DRAINAGE AREA — 672 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

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

ELEVATION — +4.786 M. (A.D.)

GAGE READING FREQUENCY — 3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971-1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971-1974

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

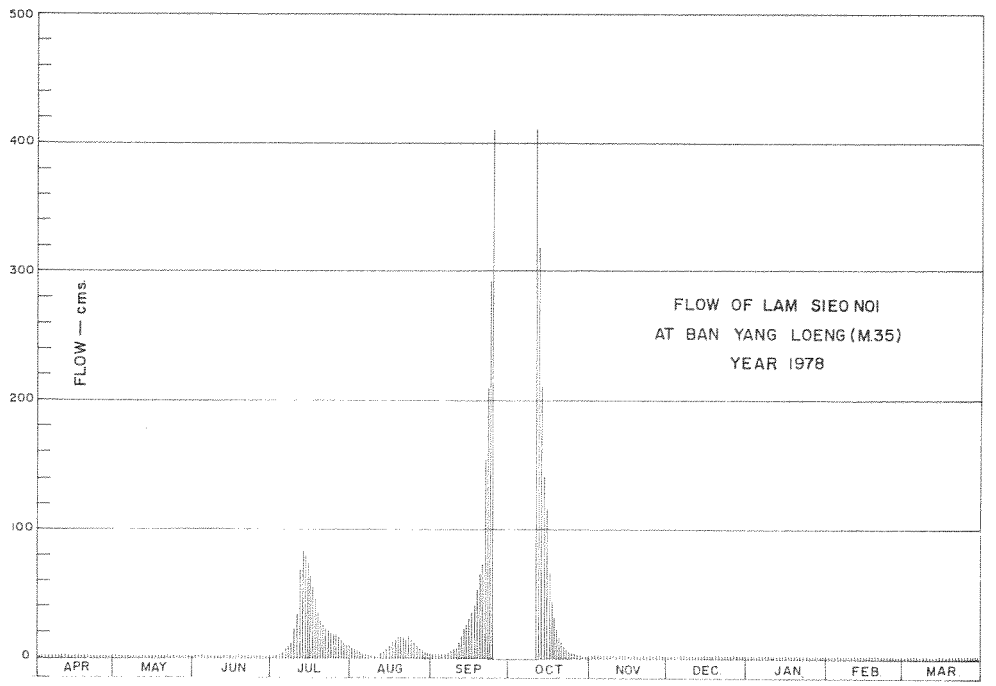
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 103 DISCHARGE MEASUREMENTS MADE DURING 1971-1974.

REMARKS — RECORDS FOR PERIOD SEPT 25-OCT 10, 1978 ARE POOR.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.82	0.91	1.35	1.98	1.76	3.28	1.60	1.14	0.83	0.68	0.56	
2	0.71	0.81	0.93	1.59	1.94	1.76	3.36	1.57	1.13	0.82	0.68	0.55	
3	0.70	0.81	0.92	1.63	1.90	1.75	3.38	1.56	1.11	0.82	0.67	0.55	
4	0.71	0.80	0.92	1.65	1.86	1.74	3.36	1.55	1.09	0.81	0.67	0.54	
5	0.70	0.80	0.91	1.79	1.82	1.76	3.34	1.53	1.07	0.81	0.66	0.53	
6	0.69	0.79	0.94	1.93	1.77	1.79	3.28	1.64	1.06	0.80	0.66	0.53	
7	0.69	0.78	0.94	2.01	1.71	1.85	3.22	1.61	1.04	0.80	0.65	0.52	
8	0.68	0.77	0.93	2.06	1.67	1.91	3.14	1.59	1.03	0.80	0.65	0.52	
9	0.67	0.78	0.92	2.17	1.63	1.95	3.06	1.55	1.04	0.79	0.64	0.51	
10	0.66	0.79	0.91	2.25	1.58	2.00	2.98	1.53	1.07	0.79	0.64	0.51	
11	0.64	0.88	0.91	2.36	1.56	2.10	2.90	1.53	1.06	0.79	0.64	0.50	
12	0.64	0.88	0.90	2.48	1.68	2.17	2.83	1.50	1.06	0.78	0.63	0.50	
13	0.73	0.89	0.90	2.52	1.84	2.24	2.72	1.48	1.07	0.78	0.63	0.49	
14	0.75	0.91	0.89	2.51	1.94	2.28	2.64	1.46	1.07	0.78	0.63	0.48	
15	0.86	0.93	0.88	2.49	2.03	2.32	2.56	1.53	1.06	0.77	0.62	0.47	
16	0.86	0.94	0.88	2.46	2.08	2.35	2.47	1.55	1.05	0.77	0.62	0.47	
17	0.86	0.95	0.87	2.43	2.11	2.38	2.39	1.56	1.07	0.76	0.61	0.46	
18	0.88	0.94	1.03	2.39	2.15	2.43	2.30	1.52	1.10	0.76	0.61	0.45	
19	0.89	0.94	1.05	2.34	2.16	2.47	2.22	1.48	1.08	0.75	0.60	0.45	
20	0.88	0.93	1.05	2.29	2.16	2.50	2.14	1.42	1.09	0.75	0.60	0.44	
21	0.88	0.92	1.04	2.26	2.15	2.66	2.05	1.40	1.08	0.74	0.59	0.43	
22	0.87	0.92	1.11	2.24	2.12	2.73	1.98	1.38	1.07	0.74	0.58	0.43	
23	0.87	0.94	1.25	2.23	2.17	2.81	1.91	1.36	1.04	0.73	0.58	0.42	
24	0.87	0.93	1.28	2.20	2.12	2.90	1.85	1.34	1.01	0.73	0.57	0.42	
25	0.86	0.93	1.29	2.20	2.07	2.96	1.81	1.31	0.98	0.72	0.57	0.41	
26	0.86	0.92	1.30	2.18	2.02	3.01	1.80	1.26	0.96	0.72	0.57	0.40	
27	0.85	0.93	1.30	2.15	1.97	3.11	1.75	1.24	0.91	0.71	0.56	0.40	
28	0.84	0.93	1.30	2.12	1.92	3.14	1.72	1.21	0.88	0.71	0.56	0.39	
29	0.83	0.93	1.31	2.07	1.88	3.18	1.67	1.19	0.86	0.70		0.39	
30	0.82	0.92	1.31	2.04	1.84	3.23	1.63	1.16	0.84	0.70		0.38	
31		0.92		2.02	1.81		1.62		0.83	0.69		0.37	
MEAN	0.78	0.88	1.04	2.14	1.92	2.37	2.50	1.45	1.03	0.76	0.62	0.47	
MAX	0.89	0.95	1.31	2.52	2.17	3.23	3.38	1.64	1.14	0.83	0.68	0.56	3.38
MIN	0.64	0.77	0.87	1.35	1.56	1.74	1.62	1.16	0.83	0.69	0.56	0.37	0.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.38 M (A.D), AT 18.00 HOURS, ON OCT 3, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.24 M (A.D)
LEFT BANK ELEVATION 4.43 M (A.D)
RIGHT BANK ELEVATION 4.41 M (A.D), DRAINAGE AREA 672 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.01	0.08	0.65	8.40	3.40	*******	1.60	0.34	0.02	0.00	0.00	
2	0.00	0.01	0.10	1.54	7.20	3.40	*******	1.43	0.32	0.01	0.00	0.00	
3	0.00	0.01	0.09	1.87	6.00	3.25	*******	1.38	0.30	0.01	0.00	0.00	
4	0.00	0.00	0.09	2.05	5.20	3.10	*******	1.32	0.27	0.01	0.00	0.00	
5	0.00	0.00	0.08	3.85	4.40	3.40	*******	1.21	0.24	0.01	0.00	0.00	
6	0.00	0.00	0.10	6.90	3.55	3.85	*******	1.96	0.23	0.00	0.00	0.00	
7	0.00	0.00	0.10	9.40	2.65	5.00	*******	1.69	0.20	0.00	0.00	0.00	
8	0.00	0.00	0.10	11.40	2.23	6.30	*******	1.54	0.19	0.00	0.00	0.00	
9	0.00	0.00	0.09	17.20	1.87	7.50	*******	1.32	0.20	0.00	0.00	0.00	
10	0.00	0.00	0.08	23.50	1.49	9.00	*******	1.21	0.24	0.00	0.00	0.00	
11	0.00	0.06	0.08	37.60	1.38	13.00	410.00	1.21	0.23	0.00	0.00	0.00	
12	0.00	0.06	0.07	68.00	2.32	17.20	318.30	1.05	0.23	0.00	0.00	0.00	
13	0.00	0.07	0.07	82.40	4.80	22.60	199.80	0.99	0.24	0.00	0.00	0.00	
14	0.00	0.08	0.07	78.20	7.20	26.20	141.60	0.93	0.24	0.00	0.00	0.00	
15	0.04	0.10	0.06	71.00	10.20	31.20	99.20	1.21	0.23	0.00	0.00	0.00	
16	0.04	0.10	0.06	62.00	12.20	36.00	65.00	1.32	0.22	0.00	0.00	0.00	
17	0.04	0.11	0.05	53.00	13.60	40.80	42.40	1.38	0.24	0.00	0.00	0.00	
18	0.06	0.10	0.19	42.40	16.00	53.00	28.00	1.16	0.28	0.00	0.00	0.00	
19	0.07	0.10	0.22	34.40	16.60	65.00	20.80	0.99	0.26	0.00	0.00	0.00	
20	0.06	0.10	0.22	27.10	16.60	74.00	15.40	0.81	0.27	0.00	0.00	0.00	
21	0.06	0.09	0.20	24.40	16.00	154.40	11.00	0.75	0.26	0.00	0.00	0.00	
22	0.05	0.09	0.30	22.60	14.20	209.70	8.40	0.71	0.24	0.00	0.00	0.00	
23	0.05	0.10	0.48	21.70	17.20	292.10	6.30	0.67	0.20	0.00	0.00	0.00	
24	0.05	0.10	0.52	19.00	14.20	410.00	5.00	0.63	0.16	0.00	0.00	0.00	
25	0.04	0.10	0.54	19.00	11.80	*******	4.20	0.57	0.13	0.00	0.00	0.00	
26	0.04	0.09	0.55	17.80	9.80	*******	4.00	0.50	0.12	0.00	0.00	0.00	
27	0.04	0.10	0.55	16.00	8.10	*******	3.25	0.47	0.08	0.00	0.00	0.00	
28	0.03	0.10	0.55	14.20	6.60	*******	2.80	0.43	0.06	0.00	0.00	0.00	
29	0.02	0.10	0.57	11.80	5.60	*******	2.23	0.40	0.04	0.00		0.00	
30	0.01	0.09	0.57	10.60	4.80	*******	1.87	0.36	0.03	0.00		0.00	
31		0.09		9.80	4.20		1.78		0.02	0.00		0.00	
TOTAL	0.70	1.96	6.83	821.36	256.39	*******	*******	31.20	6.31	0.06	0.00	0.00	******** CMSDAY
MEAN	0.02	0.06	0.23	26.50	8.27	*******	*******	1.04	0.20	0.00	0.00	0.00	******* CMS
MAX	0.07	0.11	0.57	82.40	17.20	410.00	410.00	1.96	0.34	0.02	0.00	0.00	410.00 CMS
MIN	0.00	0.00	0.05	0.65	1.38	*******	*******	0.36	0.02	0.00	0.00	0.00	******* CMS
RUNOFF	0.060	0.169	0.590	70.965	22.152	*******	*******	2.696	0.545	0.005	0.000	0.000	******** MCM

MOMENTARY PEAK ******** CMS, AT 3.38 M (A.D), AT 18.00 HOURS, ON OCT 3, 1978
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 5-TIME DAILY READINGS AT 06.00, 09.00, 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 39 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

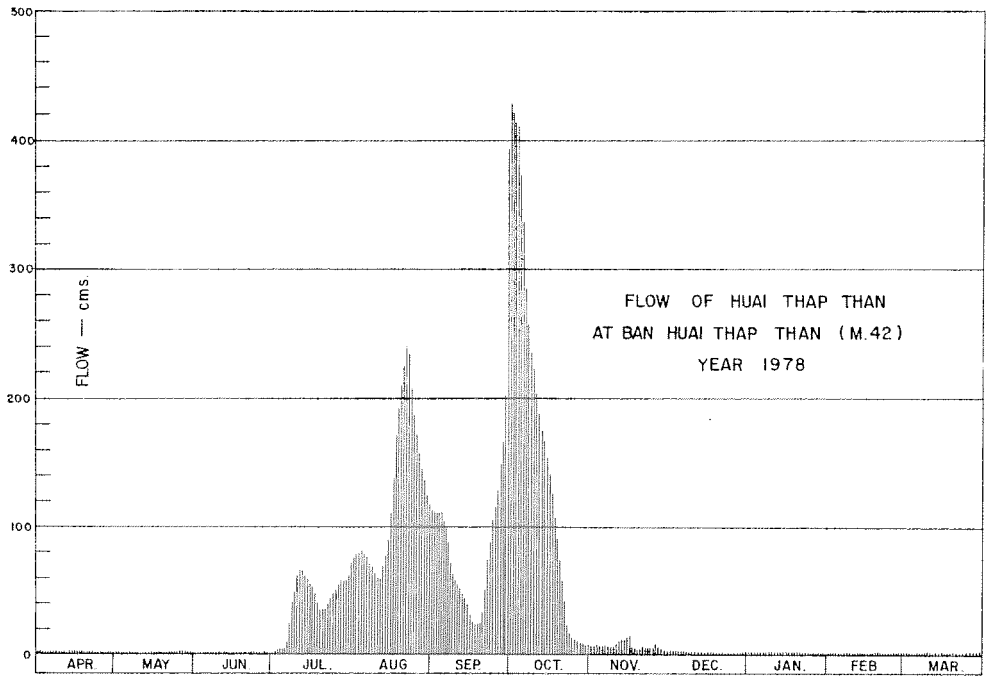
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.71	0.73	0.71	6.66	7.99	10.32	2.18	1.20	0.79	0.87	0.67	
2	0.61	0.69	0.70	1.32	6.86	7.95	10.29	2.12	1.15	0.78	0.87	0.67	
3	0.58	0.70	0.69	1.55	6.97	7.96	10.28	2.07	1.14	0.85	0.86	0.65	
4	0.58	0.69	0.67	1.61	7.01	7.94	10.27	2.07	1.12	0.85	0.78	0.63	
5	0.50	0.69	0.68	1.78	6.99	7.82	10.20	2.04	1.11	0.83	0.77	0.60	
6	0.51	0.71	0.69	2.05	6.87	7.57	10.08	2.02	1.08	0.80	0.77	0.60	
7	0.57	0.66	0.71	3.28	6.75	7.16	9.84	1.98	1.25	0.81	0.77	0.64	
8	0.59	0.65	0.66	4.69	6.56	6.65	9.65	1.91	1.18	0.80	0.75	0.60	
9	0.62	0.66	0.71	5.53	6.36	6.23	9.55	1.85	1.00	0.78	0.73	0.57	
10	0.59	0.69	0.69	5.93	6.19	5.94	9.41	2.03	0.93	0.77	0.70	0.60	
11	0.55	0.71	0.67	6.20	5.99	5.77	9.26	2.30	0.87	0.79	0.69	0.66	
12	0.65	0.70	0.70	6.32	6.07	5.57	9.14	2.48	0.84	0.81	0.68	0.73	
13	0.74	0.74	0.66	6.24	6.43	5.31	9.02	2.59	0.86	0.79	0.65	0.71	
14	0.64	0.71	0.65	6.07	6.87	4.98	8.88	2.67	0.91	0.77	0.64	0.71	
15	0.86	0.71	0.68	5.89	7.32	4.54	8.74	2.80	0.85	0.79	0.63	0.71	
16	0.74	0.70	0.69	5.73	7.86	4.24	8.55	2.92	0.84	0.79	0.63	0.71	
17	0.70	0.73	0.68	5.42	8.53	3.90	8.28	1.79	0.83	0.77	0.63	0.70	
18	0.60	0.72	0.69	5.09	9.04	3.87	7.93	1.55	0.83	0.74	0.62	0.69	
19	0.79	0.85	0.71	4.75	9.27	3.93	7.37	1.24	0.83	0.70	0.61	0.66	
20	0.75	0.83	0.76	4.57	9.38	4.31	6.67	1.15	0.85	0.83	0.61	0.60	
21	0.74	0.81	0.70	4.52	9.49	5.16	5.78	2.00	0.85	0.77	0.60	0.67	
22	0.72	0.78	0.72	4.67	9.57	6.28	4.77	1.84	0.85	0.74	0.58	0.67	
23	0.69	0.76	0.70	4.95	9.52	7.07	3.88	1.79	0.84	0.78	0.58	0.67	
24	0.68	0.76	0.70	5.27	9.33	7.58	3.30	1.67	0.85	0.81	0.60	0.67	
25	0.67	0.87	0.70	5.52	9.16	8.00	2.88	1.62	0.85	0.81	0.62	0.68	
26	0.69	0.86	0.71	5.69	8.97	8.21	2.60	1.98	0.84	0.85	0.62	0.66	
27	0.83	0.83	0.73	5.88	8.77	8.48	2.51	1.84	0.81	0.83	0.60	0.66	
28	0.74	0.79	0.73	5.96	8.58	8.87	2.38	1.61	0.79	0.78	0.60	0.68	
29	0.71	0.77	0.72	5.98	8.42	9.52	2.26	1.43	0.77	0.81		0.68	
30	0.69	0.76	0.69	6.10	8.26	10.22	2.13	1.27	0.78	0.88		0.68	
31		0.76		6.35	8.10		2.16		0.80	0.87		0.66	
MEAN	0.67	0.74	0.70	4.70	7.81	6.63	7.04	1.96	0.93	0.80	0.68	0.66	
MAX	0.86	0.87	0.76	6.35	9.57	10.22	10.32	2.92	1.25	0.88	0.87	0.73	10.32
MIN	0.50	0.65	0.65	0.71	5.99	3.87	2.13	1.15	0.77	0.70	0.58	0.57	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.32 M (A.D), AT 24.00 HOURS, ON SEP 30, 1978

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 1794 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	0.93	0.99	0.93	72.12	112.60	427.40	7.76	2.50	1.17	1.41	0.81	
2	0.63	0.87	0.90	2.98	76.58	111.00	416.50	7.34	2.30	1.14	1.41	0.81	
3	0.54	0.90	0.87	4.05	79.25	111.40	413.00	7.02	2.26	1.35	1.38	0.75	
4	0.54	0.87	0.81	4.35	80.25	110.60	409.50	7.02	2.18	1.35	1.14	0.69	
5	0.30	0.87	0.84	5.28	79.75	105.80	385.00	6.84	2.14	1.29	1.11	0.60	
6	0.33	0.93	0.87	6.90	76.81	96.78	348.00	6.72	2.04	1.20	1.11	0.60	
7	0.51	0.78	0.93	17.30	74.10	84.12	287.40	6.48	2.70	1.23	1.11	0.72	
8	0.57	0.75	0.78	36.25	69.96	71.90	252.00	6.06	2.42	1.20	1.05	0.60	
9	0.66	0.78	0.93	49.74	65.76	63.03	235.50	5.70	1.80	1.14	0.99	0.51	
10	0.57	0.87	0.87	56.94	61.35	57.12	216.30	6.78	1.59	1.11	0.90	0.60	
11	0.45	0.93	0.81	62.40	58.02	54.06	198.20	8.60	1.41	1.17	0.87	0.78	
12	0.75	0.90	0.90	64.92	59.67	50.46	185.60	9.86	1.32	1.23	0.84	0.99	
13	1.02	1.02	0.78	63.24	67.23	45.78	174.80	10.72	1.38	1.17	0.75	0.93	
14	0.72	0.93	0.75	59.67	76.81	40.60	163.50	11.43	1.53	1.11	0.72	0.93	
15	1.38	0.93	0.84	56.22	88.70	34.00	153.60	12.60	1.35	1.17	0.69	0.93	
16	1.02	0.90	0.87	53.34	107.40	29.50	141.50	13.70	1.32	1.17	0.69	0.93	
17	0.90	0.99	0.84	47.76	140.30	24.40	126.00	5.34	1.29	1.11	0.69	0.90	
18	0.60	0.96	0.87	42.25	176.60	24.01	110.20	4.05	1.29	1.02	0.66	0.87	
19	1.17	1.35	0.93	37.15	199.40	24.85	90.20	2.66	1.29	0.90	0.63	0.60	
20	1.05	1.29	1.08	34.45	212.60	30.55	72.34	2.30	1.35	1.29	0.63	0.60	
21	1.02	1.23	0.90	33.70	226.70	43.30	54.24	6.60	1.35	1.11	0.60	0.81	
22	0.96	1.14	0.96	35.95	238.50	64.08	37.45	5.64	1.35	1.02	0.54	0.81	
23	0.87	1.08	0.90	40.15	231.00	81.75	24.14	5.34	1.32	1.14	0.54	0.81	
24	0.84	1.08	0.90	45.09	206.60	97.12	17.50	4.65	1.35	1.23	0.60	0.81	
25	0.81	1.41	0.90	49.56	187.40	113.00	13.32	4.40	1.35	1.23	0.66	0.84	
26	0.87	1.38	0.93	52.62	170.60	122.50	10.80	6.48	1.32	1.35	0.66	0.78	
27	1.29	1.29	0.99	56.04	155.55	137.30	10.08	5.64	1.23	1.29	0.60	0.78	
28	1.02	1.17	0.99	57.48	143.30	162.75	9.16	4.35	1.17	1.14	0.60	0.84	
29	0.93	1.11	0.96	57.84	133.70	231.00	8.32	3.45	1.11	1.23		0.84	
30	0.87	1.08	0.87	60.30	125.00	392.00	7.41	2.78	1.14	1.44		0.84	
31		1.08		65.55	117.00		7.62		1.20	1.41		0.78	
TOTAL	23.94	31.80	26.76	1260.40	3858.01	2727.36	5006.57	198.31	49.35	37.11	23.58	24.09	13267.27 CMSDAY
MEAN	0.80	1.03	0.89	40.66	124.45	90.91	161.50	6.61	1.59	1.20	0.84	0.78	36.35 CMS
MAX	1.38	1.41	1.08	65.55	238.50	392.00	427.40	13.70	2.70	1.44	1.41	0.99	427.40 CMS
MIN	0.30	0.75	0.75	0.93	58.02	24.01	7.41	2.30	1.11	0.90	0.54	0.51	0.30 CMS
RUNOFF	2.068	2.748	2.312	108.898	333.332	235.644	432.568	17.134	4.264	3.206	2.037	2.081	1146.292 MCM

MOMENTARY PEAK 427.40 CMS, AT 10.32 M (A.D), AT 24.00 HOURS, ON SEP 30, 1978

RUNOFF YIELD 20.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 238.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +5.592 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

REMARKS — NO RECORDS ON FEB 1-MAR 31, 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

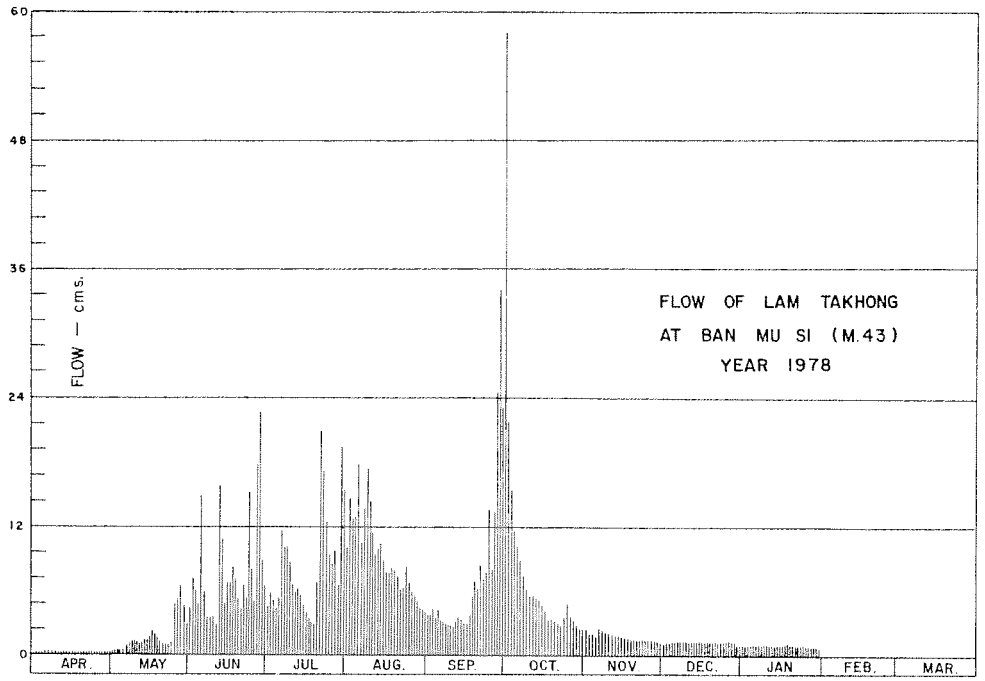
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	0.38	0.89	1.01	1.27	0.91	2.58	0.81	0.60	0.57	*******	*******	
2	0.26	0.51	1.13	0.96	1.48	0.91	1.83	0.79	0.60	0.57	*******	*******	
3	0.25	0.50	1.08	1.05	1.38	0.95	1.53	0.78	0.60	0.56	*******	*******	
4	0.24	0.48	0.98	1.00	1.40	0.89	1.38	0.78	0.60	0.56	*******	*******	
5	0.25	0.48	1.49	0.95	1.60	0.96	1.32	0.77	0.60	0.56	*******	*******	
6	0.25	0.54	1.09	1.03	1.31	0.89	1.28	0.79	0.60	0.57	*******	*******	
7	0.25	0.56	1.02	1.35	1.29	0.87	1.23	0.82	0.60	0.59	*******	*******	
8	0.23	0.63	0.89	1.27	1.44	0.86	1.17	0.80	0.61	0.59	*******	*******	
9	0.23	0.67	0.90	1.29	1.59	0.85	1.11	0.78	0.61	0.59	*******	*******	
10	0.21	0.67	0.91	1.19	1.47	0.84	1.05	0.77	0.62	0.58	*******	*******	
11	0.20	0.66	0.83	1.09	1.30	0.83	1.02	0.75	0.62	0.56	*******	*******	
12	0.19	0.61	0.92	1.06	1.24	0.84	1.02	0.75	0.62	0.57	*******	*******	
13	0.20	0.64	1.52	1.08	1.27	0.89	1.01	0.74	0.62	0.57	*******	*******	
14	0.21	0.70	1.19	1.05	1.30	0.88	1.00	0.72	0.62	0.57	*******	*******	
15	0.22	0.67	0.98	0.99	1.25	0.85	0.99	0.71	0.62	0.56	*******	*******	
16	0.22	0.67	1.11	0.95	1.17	0.84	0.95	0.70	0.62	0.57	*******	*******	
17	0.20	0.82	1.10	0.91	1.14	0.88	0.91	0.70	0.61	0.59	*******	*******	
18	0.18	0.77	1.18	0.88	1.18	1.00	0.88	0.70	0.61	0.61	*******	*******	
19	0.18	0.73	1.10	0.87	1.16	1.11	0.88	0.70	0.61	0.59	*******	*******	
20	0.19	0.68	1.01	1.02	1.15	1.07	0.88	0.68	0.60	0.58	*******	*******	
21	0.19	0.64	0.93	1.51	1.11	1.19	0.86	0.67	0.60	0.57	*******	*******	
22	0.18	0.61	1.09	1.70	1.06	1.16	0.84	0.68	0.60	0.56	*******	*******	
23	0.18	0.59	1.02	1.50	1.07	1.11	0.83	0.68	0.60	0.56	*******	*******	
24	0.17	0.57	1.50	1.41	1.18	1.16	0.88	0.68	0.60	0.55	*******	*******	
25	0.19	0.62	1.10	1.25	1.12	1.44	0.98	0.67	0.60	0.55	*******	*******	
26	0.22	0.96	1.00	1.19	1.05	1.17	0.90	0.66	0.60	0.55	*******	*******	
27	0.22	1.03	1.64	1.28	1.01	1.54	0.89	0.66	0.60	0.54	*******	*******	
28	0.20	1.08	1.75	1.15	1.02	1.76	0.86	0.64	0.60	0.54	*******	*******	
29	0.20	0.89	1.26	1.09	0.97	2.06	0.84	0.63	0.58	0.54		*******	
30	0.30	0.98	1.15	1.65	0.94	1.74	0.82	0.61	0.58	0.52		*******	
31		0.84		1.56	0.93		0.82		0.57	0.52		*******	
MEAN	0.22	0.68	1.13	1.17	1.22	1.08	1.08	0.72	0.60	0.56	*******	*******	
MAX	0.30	1.08	1.75	1.70	1.60	2.06	2.58	0.82	0.62	0.61	*******	*******	2.58
MIN	0.17	0.38	0.83	0.87	0.93	0.83	0.82	0.61	0.57	0.52	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.20 M (A.D), AT HOURS, ON OCT 1, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.38 M (A.D)

LEFT BANK ELEVATION 8.45 M (A.D)

RIGHT BANK ELEVATION 8.18 M (A.D), DRAINAGE AREA 235 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.18	3.47	5.17	9.90	3.74	58.04	2.43	1.00	0.85	*******	*******	
2	0.06	0.55	7.24	4.44	14.70	3.74	25.48	2.22	1.00	0.85	*******	*******	
3	0.05	0.50	6.36	5.85	12.26	4.30	15.98	2.14	1.00	0.80	*******	*******	
4	0.04	0.44	4.72	5.00	12.70	3.47	12.26	2.14	1.00	0.80	*******	*******	
5	0.05	0.44	14.95	4.30	17.80	4.44	10.94	2.06	1.00	0.80	*******	*******	
6	0.05	0.70	6.53	5.51	10.72	3.47	10.10	2.22	1.00	0.85	*******	*******	
7	0.05	0.80	5.34	11.60	10.30	3.21	9.10	2.56	1.00	0.95	*******	*******	
8	0.03	1.15	3.47	9.90	13.70	3.08	7.96	2.30	1.05	0.95	*******	*******	
9	0.03	1.35	3.60	10.30	17.54	2.95	6.88	2.14	1.05	0.95	*******	*******	
10	0.01	1.35	3.74	8.32	14.45	2.82	5.85	2.06	1.10	0.90	*******	*******	
11	0.00	1.30	2.69	6.53	10.50	2.69	5.34	1.90	1.10	0.80	*******	*******	
12	0.00	1.05	3.88	6.02	9.30	2.82	5.34	1.90	1.10	0.85	*******	*******	
13	0.00	1.20	15.72	6.36	9.90	3.47	5.17	1.82	1.10	0.85	*******	*******	
14	0.01	1.50	8.32	5.85	10.50	3.34	5.00	1.66	1.10	0.85	*******	*******	
15	0.02	1.35	4.72	4.86	9.50	2.95	4.86	1.58	1.10	0.80	*******	*******	
16	0.02	1.35	6.88	4.30	7.96	2.82	4.30	1.50	1.10	0.85	*******	*******	
17	0.00	2.56	6.70	3.74	7.42	3.34	3.74	1.50	1.05	0.95	*******	*******	
18	0.00	2.06	8.14	3.34	8.14	5.00	3.34	1.50	1.05	1.05	*******	*******	
19	0.00	1.74	6.70	3.21	8.14	6.88	3.34	1.50	1.05	0.95	*******	*******	
20	0.00	1.40	5.17	5.34	7.60	6.19	3.34	1.40	1.00	0.90	*******	*******	
21	0.00	1.20	4.02	15.46	6.88	8.32	3.08	1.35	1.00	0.85	*******	*******	
22	0.00	1.05	6.53	21.00	6.02	7.78	2.82	1.40	1.00	0.80	*******	*******	
23	0.00	0.95	5.34	15.20	6.19	6.88	2.69	1.40	1.00	0.80	*******	*******	
24	0.00	0.85	15.20	12.95	8.14	7.78	3.34	1.40	1.00	0.75	*******	*******	
25	0.00	1.10	6.70	9.50	7.06	13.70	4.72	1.35	1.00	0.75	*******	*******	
26	0.02	4.44	5.00	8.32	5.85	7.96	3.60	1.30	1.00	0.75	*******	*******	
27	0.02	5.51	19.08	10.10	5.17	16.24	3.47	1.30	1.00	0.70	*******	*******	
28	0.00	6.36	22.70	7.60	5.34	23.04	3.08	1.20	1.00	0.70	*******	*******	
29	0.00	3.47	9.70	6.53	4.58	34.20	2.82	1.15	0.90	0.70		*******	
30	0.10	4.72	7.60	19.40	4.16	22.36	2.56	1.05	0.90	0.60		*******	
31		2.82		16.76	4.02		2.56		0.85	0.60		*******	
TOTAL	0.65	55.44	230.21	262.76	286.44	222.98	241.10	51.43	31.60	25.55	*******	*******	******** CMSDAY
MEAN	0.02	1.79	7.67	8.48	9.24	7.43	7.78	1.71	1.02	0.82	*******	*******	******* CMS
MAX	0.10	6.36	22.70	21.00	17.80	34.20	58.04	2.56	1.10	1.05	*******	*******	58.04 CMS
MIN	0.00	0.18	2.69	3.21	4.02	2.69	2.56	1.05	0.85	0.60	*******	*******	******* CMS
RUNOFF	0.056	4.790	19.890	22.702	24.748	19.265	20.831	4.444	2.730	2.208	*******	*******	******** MCM

MOMENTARY PEAK 91.20 CMS, AT 3.20 M (A.D), AT HOURS, ON OCT 1, 1978

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 388.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

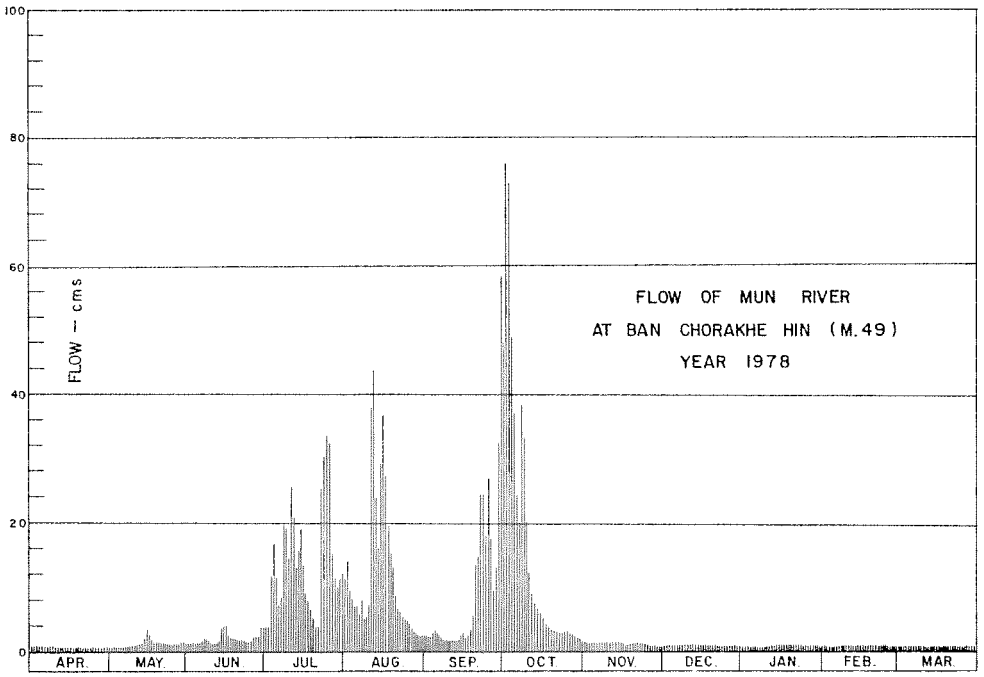
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.03	199.04	199.74	200.47	201.12	200.26	201.88	199.90	199.31	199.14	199.08	199.12	
2	199.04	199.04	199.70	200.39	200.90	200.25	202.23	199.89	199.30	199.14	199.13	199.15	
3	199.03	199.03	199.63	200.99	200.79	200.23	202.21	199.87	199.29	199.15	199.11	199.13	
4	199.03	199.03	199.62	201.22	200.72	200.43	201.84	199.85	199.29	199.16	199.15	199.05	
5	199.03	199.04	199.66	200.88	200.73	200.33	201.55	199.83	199.28	199.18	199.07	199.04	
6	199.02	199.03	199.96	200.74	200.61	200.22	201.36	199.84	199.27	199.15	199.15	199.06	
7	199.04	199.04	200.20	200.86	200.79	200.12	201.33	199.89	199.27	199.15	199.23	199.09	
8	199.05	199.05	200.03	201.33	200.56	200.07	201.76	199.90	199.26	199.18	199.29	199.12	
9	199.04	199.04	199.89	201.29	200.71	200.12	201.62	199.89	199.26	199.17	199.34	199.07	
10	199.02	199.03	199.79	201.12	201.72	200.10	201.11	199.83	199.26	199.13	199.36	199.06	
11	199.03	199.03	199.75	201.48	201.85	200.09	200.92	199.80	199.25	199.16	199.20	199.06	
12	199.03	199.06	199.82	201.18	201.44	200.11	200.80	199.77	199.28	199.23	199.26	199.07	
13	199.04	199.17	200.06	201.06	201.19	200.09	200.73	199.76	199.26	199.17	199.33	199.06	
14	199.04	199.75	200.45	201.31	201.58	200.28	200.69	199.76	199.26	199.30	199.37	199.02	
15	199.02	200.13	200.46	201.26	201.73	200.34	200.63	199.73	199.23	199.36	199.42	199.01	
16	199.03	200.40	200.29	200.91	201.56	200.17	200.54	199.70	199.25	199.39	199.43	199.01	
17	199.03	200.18	200.21	200.81	201.30	200.28	200.48	199.58	199.22	199.42	199.44	199.00	
18	199.03	199.94	200.15	200.73	201.17	200.39	200.41	199.49	199.21	199.46	199.43	199.00	
19	199.04	199.74	200.13	200.56	201.06	200.68	200.36	199.48	199.21	199.43	199.45	199.02	
20	199.05	199.67	200.07	200.43	200.85	201.08	200.33	199.55	199.19	199.40	199.46	199.04	
21	199.05	199.66	200.02	200.46	200.73	201.16	200.34	199.79	199.23	199.39	199.46	199.03	
22	199.05	199.59	200.10	201.47	200.66	201.45	200.38	199.82	199.28	199.38	199.45	199.02	
23	199.04	199.49	200.02	201.60	200.60	201.45	200.34	199.66	199.35	199.38	199.45	199.01	
24	199.04	199.43	199.98	201.67	200.56	201.26	200.34	199.59	199.20	199.24	199.40	199.01	
25	199.04	199.55	200.08	201.64	200.53	201.51	200.35	199.39	199.18	199.21	199.14	199.02	
26	199.03	199.65	200.24	201.23	200.44	201.13	200.35	199.37	199.17	199.23	199.11	199.02	
27	199.03	199.48	200.25	201.01	200.37	200.89	200.28	199.36	199.16	199.13	199.06	199.04	
28	199.03	199.44	200.14	200.89	200.34	201.06	200.15	199.34	199.16	199.12	199.07	199.07	
29	199.03	199.84	200.45	200.96	200.30	201.69	200.13	199.32	199.15	199.22		199.05	
30	199.02	200.00	200.42	201.03	200.29	202.07	200.09	199.31	199.14	199.26		199.03	
31		199.80		200.97	200.28		200.03		199.13	199.12		199.03	
MEAN	199.03	199.46	200.04	201.03	200.89	200.64	200.82	199.68	199.24	199.24	199.28	199.05	
MAX	199.05	200.40	200.46	201.67	201.85	202.07	202.23	199.90	199.35	199.46	199.46	199.15	202.23
MIN	199.02	199.03	199.62	200.39	200.28	200.07	200.03	199.31	199.13	199.12	199.06	199.00	199.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 202.35 M (MSL), AT 24.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 197.21 M (MSL), RIVER BED 197.76 M (MSL)
LEFT BANK ELEVATION 202.23 M (MSL)
RIGHT BANK ELEVATION 202.01 M (MSL), DRAINAGE AREA 474 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.73	1.28	4.13	14.28	2.50	45.34	1.40	0.94	0.81	0.76	0.79	
2	0.73	0.73	1.24	3.42	9.70	2.45	75.70	1.39	0.93	0.81	0.80	0.82	
3	0.72	0.72	1.19	11.50	7.87	2.35	72.90	1.38	0.93	0.82	0.79	0.80	
4	0.72	0.72	1.18	16.76	6.96	3.77	43.02	1.36	0.93	0.82	0.82	0.74	
5	0.72	0.73	1.21	9.36	7.09	2.94	28.50	1.35	0.92	0.84	0.75	0.73	
6	0.72	0.72	1.52	7.22	5.62	2.30	21.10	1.35	0.91	0.82	0.82	0.75	
7	0.73	0.73	2.20	9.02	7.87	1.88	20.05	1.39	0.91	0.82	0.88	0.77	
8	0.74	0.74	1.66	20.05	5.06	1.74	38.42	1.40	0.90	0.84	0.93	0.79	
9	0.73	0.73	1.39	18.72	6.83	1.88	31.40	1.39	0.90	0.83	0.96	0.75	
10	0.72	0.72	1.31	14.28	36.14	1.80	14.04	1.35	0.90	0.80	0.98	0.75	
11	0.72	0.72	1.28	25.70	43.60	1.78	10.10	1.32	0.89	0.82	0.86	0.75	
12	0.72	0.75	1.34	15.72	24.10	1.84	8.00	1.30	0.92	0.88	0.90	0.75	
13	0.73	0.83	1.72	12.96	15.96	1.78	7.09	1.29	0.90	0.83	0.96	0.75	
14	0.73	1.28	3.95	19.35	29.70	2.60	6.58	1.29	0.90	0.93	0.99	0.72	
15	0.72	1.92	4.04	17.88	36.71	3.02	5.86	1.27	0.88	0.98	1.03	0.71	
16	0.72	3.50	2.65	9.90	28.90	2.08	4.84	1.24	0.89	1.00	1.03	0.71	
17	0.72	2.12	2.25	8.17	19.00	2.60	4.22	1.15	0.87	1.03	1.04	0.70	
18	0.72	1.48	2.00	7.09	15.48	3.42	3.59	1.08	0.86	1.06	1.03	0.70	
19	0.73	1.28	1.92	5.06	12.96	6.46	3.18	1.07	0.86	1.03	1.05	0.72	
20	0.74	1.22	1.74	3.77	8.85	13.38	2.94	1.13	0.85	1.01	1.06	0.73	
21	0.74	1.21	1.64	4.04	7.09	15.24	3.02	1.31	0.88	1.00	1.06	0.72	
22	0.74	1.16	1.80	25.30	6.22	24.50	3.34	1.34	0.92	1.00	1.05	0.72	
23	0.73	1.08	1.64	30.50	5.50	24.50	3.02	1.21	0.97	1.00	1.05	0.71	
24	0.73	1.03	1.56	33.65	5.06	17.88	3.02	1.16	0.86	0.89	1.01	0.71	
25	0.73	1.13	1.76	32.30	4.73	26.90	3.10	1.00	0.84	0.86	0.81	0.72	
26	0.72	1.21	2.40	17.04	3.86	14.52	3.10	0.99	0.83	0.88	0.79	0.72	
27	0.72	1.07	2.45	11.91	3.26	9.53	2.60	0.98	0.82	0.80	0.75	0.73	
28	0.72	1.04	1.96	9.53	3.02	12.96	2.00	0.96	0.82	0.79	0.75	0.75	
29	0.72	1.35	3.95	10.90	2.70	34.55	1.92	0.95	0.82	0.87		0.74	
30	0.72	1.60	3.68	12.33	2.65	58.10	1.78	0.94	0.81	0.90		0.72	
31		1.32		11.10	2.60		1.66		0.80	0.79		0.72	
TOTAL	21.77	35.57	59.91	438.66	389.37	301.25	475.43	36.74	27.36	27.56	25.71	22.89	1862.22 CMSDAY
MEAN	0.73	1.15	2.00	14.15	12.56	10.04	15.34	1.22	0.88	0.89	0.92	0.74	5.10 CMS
MAX	0.74	3.50	4.04	33.65	43.60	58.10	75.70	1.40	0.97	1.06	1.06	0.82	75.70 CMS
MIN	0.72	0.72	1.18	3.42	2.60	1.74	1.66	0.94	0.80	0.79	0.75	0.70	0.70 CMS
RUNOFF	1.881	3.073	5.176	37.900	33.642	26.028	41.077	3.174	2.364	2.381	2.221	1.978	160.896 MCM

MOMENTARY PEAK 95.00 CMS, AT 202.35 M (MSL), AT 24.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 10.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 200.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

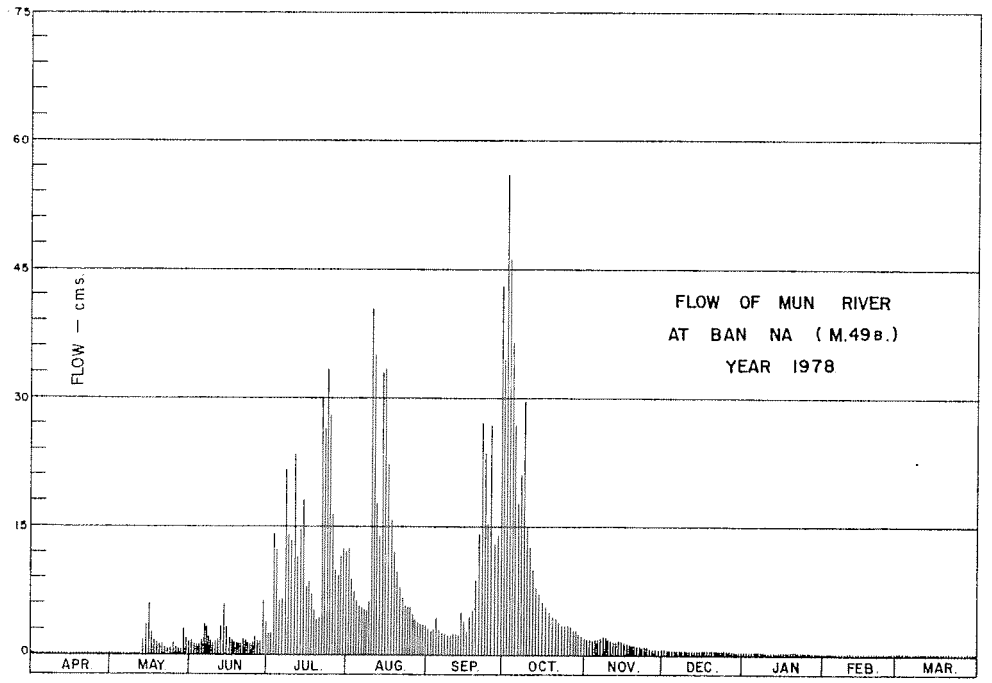
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +207.10 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 147 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	203.60	203.57	205.04	205.39	206.75	205.56	207.76	205.17	204.29	203.93	203.75	203.63	
2	203.61	203.57	204.82	205.40	206.46	205.45	208.35	205.16	204.28	203.92	203.74	203.62	
3	203.60	203.57	204.74	206.86	206.31	205.50	208.05	205.12	204.28	203.91	203.74	203.63	
4	203.60	203.58	204.68	206.74	206.20	205.81	207.76	205.08	204.26	203.91	203.73	203.63	
5	203.60	203.58	205.02	206.16	206.04	205.63	207.43	205.05	204.24	203.89	203.73	203.63	
6	203.67	203.58	205.70	206.11	205.99	205.46	207.15	205.07	204.21	203.91	203.72	203.63	
7	203.62	203.62	205.61	206.23	205.98	205.38	207.07	205.17	204.21	203.89	203.73	203.64	
8	203.61	203.63	205.23	207.28	205.96	205.31	207.59	205.24	204.18	203.88	203.72	203.61	
9	203.59	203.62	204.93	206.85	206.20	205.28	207.05	205.15	204.17	203.87	203.72	203.60	
10	203.59	203.61	204.81	206.81	207.93	205.24	206.78	205.05	204.16	203.87	203.77	203.63	
11	203.58	203.61	204.87	207.35	207.78	205.30	206.63	204.98	204.15	203.87	203.72	203.61	
12	203.58	203.82	205.25	206.77	207.19	205.28	206.41	204.93	204.14	203.86	203.71	203.61	
13	203.58	204.12	205.69	206.67	206.84	205.26	206.30	204.95	204.12	203.87	203.74	203.61	
14	203.58	205.45	206.06	207.11	207.70	205.91	206.21	204.91	204.09	203.87	203.71	203.60	
15	203.58	205.89	205.61	206.87	207.72	205.64	206.11	204.86	204.08	203.87	203.70	203.60	
16	203.58	206.05	205.22	206.32	207.46	205.44	206.03	204.81	204.07	203.89	203.70	203.59	
17	203.60	205.53	204.96	206.42	207.01	205.79	205.95	204.75	204.06	203.89	203.70	203.60	
18	203.60	205.27	204.88	206.33	206.91	205.95	205.88	204.72	204.04	203.88	203.70	203.60	
19	203.61	204.94	204.81	206.02	206.70	206.31	205.81	204.66	204.03	203.87	203.70	203.60	
20	203.61	204.84	204.79	205.76	206.46	206.87	205.81	204.63	204.02	203.86	203.69	203.59	
21	203.63	204.88	205.14	205.83	206.29	206.86	205.78	204.62	204.02	203.85	203.70	203.58	
22	203.63	204.61	205.15	207.60	206.16	207.50	205.67	204.58	204.01	203.84	203.70	203.56	
23	203.61	204.38	204.88	207.47	206.07	207.36	205.61	204.55	204.00	203.83	203.68	203.55	
24	203.60	204.30	204.75	207.72	206.02	206.95	205.64	204.49	204.00	203.83	203.68	203.55	
25	203.61	204.92	204.95	207.59	205.99	207.49	205.65	204.45	203.99	203.81	203.66	203.56	
26	203.61	204.54	205.31	207.24	205.86	206.81	205.64	204.42	203.97	203.80	203.66	203.55	
27	203.60	204.21	205.10	206.56	205.76	206.53	205.52	204.40	203.97	203.79	203.64	203.55	
28	203.60	204.21	204.95	206.39	205.71	206.88	205.42	204.35	203.96	203.79	203.65	203.55	
29	203.59	205.56	206.10	206.64	205.67	207.77	205.34	204.31	203.95	203.78		203.55	
30	203.58	205.28	205.75	206.74	205.62	208.01	205.26	204.30	203.94	203.79		203.55	
31		204.95		206.72	205.59		205.19		203.94	203.77		203.56	
MEAN	203.60	204.43	205.16	206.64	206.46	206.15	206.35	204.80	204.09	203.86	203.71	203.59	
MAX	203.67	206.05	206.10	207.72	207.93	208.01	208.35	205.24	204.29	203.93	203.77	203.64	208.35
MIN	203.58	203.57	204.68	205.39	205.59	205.24	205.19	204.30	203.94	203.77	203.64	203.55	203.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 208.38 M (A.D), AT 15.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 203.50 M (A.D), RIVER BED 203.47 M (A.D)
LEFT BANK ELEVATION 210.20 M (A.D)
RIGHT BANK ELEVATION 210.10 M (A.D), DRAINAGE AREA 434 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.02	1.82	2.62	12.50	3.19	34.49	2.06	0.72	0.36	0.18	0.06	
2	0.04	0.02	1.44	2.65	9.30	2.80	55.75	2.04	0.71	0.35	0.17	0.05	
3	0.03	0.02	1.31	13.99	7.89	2.95	44.20	1.96	0.71	0.34	0.17	0.06	
4	0.03	0.02	1.22	12.37	6.95	4.36	34.49	1.89	0.69	0.34	0.16	0.06	
5	0.03	0.02	1.78	6.65	5.78	3.48	25.25	1.84	0.67	0.32	0.16	0.06	
6	0.10	0.02	3.80	6.28	5.43	2.83	18.95	1.87	0.64	0.34	0.15	0.06	
7	0.05	0.05	3.40	7.20	5.37	2.59	17.42	2.06	0.64	0.32	0.16	0.07	
8	0.04	0.06	2.19	21.67	5.24	2.38	29.43	2.21	0.61	0.31	0.15	0.04	
9	0.03	0.05	1.63	13.85	6.95	2.30	17.07	2.02	0.60	0.30	0.15	0.03	
10	0.03	0.04	1.43	13.29	40.02	2.21	12.89	1.84	0.59	0.30	0.20	0.06	
11	0.02	0.04	1.53	23.30	35.12	2.35	11.08	1.72	0.58	0.30	0.15	0.04	
12	0.02	0.25	2.24	12.76	19.75	2.30	8.80	1.63	0.57	0.29	0.14	0.04	
13	0.02	0.55	3.75	11.52	13.71	2.26	7.80	1.66	0.55	0.30	0.17	0.04	
14	0.02	2.80	5.92	18.15	32.60	4.91	7.04	1.60	0.52	0.30	0.14	0.03	
15	0.02	4.79	3.40	14.13	33.23	3.53	6.28	1.51	0.51	0.30	0.13	0.03	
16	0.02	5.85	2.17	7.98	26.00	2.77	5.71	1.43	0.50	0.32	0.13	0.03	
17	0.03	3.07	1.68	8.90	16.37	4.25	5.17	1.33	0.49	0.32	0.13	0.03	
18	0.03	2.28	1.55	8.07	14.71	5.17	4.74	1.28	0.47	0.31	0.13	0.03	
19	0.04	1.65	1.43	5.64	11.85	7.89	4.36	1.19	0.46	0.30	0.13	0.03	
20	0.04	1.48	1.39	4.10	9.30	14.13	4.36	1.14	0.45	0.29	0.12	0.03	
21	0.06	1.55	2.00	4.46	7.71	13.99	4.20	1.13	0.45	0.28	0.13	0.02	
22	0.06	1.12	2.02	29.70	6.65	27.00	3.67	1.07	0.44	0.27	0.13	0.02	
23	0.04	0.83	1.55	26.25	5.99	23.54	3.40	1.03	0.43	0.26	0.11	0.01	
24	0.03	0.73	1.33	33.23	5.64	15.37	3.53	0.96	0.43	0.26	0.11	0.01	
25	0.04	1.61	1.66	29.43	5.43	26.75	3.58	0.91	0.42	0.24	0.09	0.02	
26	0.04	1.02	2.38	20.81	4.63	13.29	3.53	0.87	0.40	0.23	0.09	0.01	
27	0.03	0.64	1.92	10.33	4.10	10.02	3.03	0.85	0.40	0.22	0.07	0.01	
28	0.03	0.64	1.66	8.61	3.85	14.27	2.71	0.79	0.39	0.22	0.08	0.01	
29	0.03	3.19	6.20	11.19	3.67	34.81	2.47	0.74	0.38	0.21		0.01	
30	0.02	2.30	4.05	12.37	3.44	42.76	2.26	0.73	0.37	0.22		0.01	
31		1.66		12.11	3.31		2.10		0.37	0.20		0.02	
TOTAL	1.05	38.37	69.85	413.61	372.49	300.45	389.76	43.36	16.16	8.92	3.83	1.03	1658.88 CMSDAY
MEAN	0.03	1.24	2.33	13.34	12.02	10.01	12.57	1.45	0.52	0.29	0.14	0.03	4.54 CMS
MAX	0.10	5.85	6.20	33.23	40.02	42.76	55.75	2.21	0.72	0.36	0.20	0.07	55.75 CMS
MIN	0.02	0.02	1.22	2.62	3.31	2.21	2.10	0.73	0.37	0.20	0.07	0.01	0.01 CMS
RUNOFF	0.091	3.315	6.035	35.736	32.183	25.959	33.675	3.746	1.396	0.771	0.331	0.089	143.327 MCM

MOMENTARY PEAK 56.98 CMS, AT 208.38 M (A.D), AT 15.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 10.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 131.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

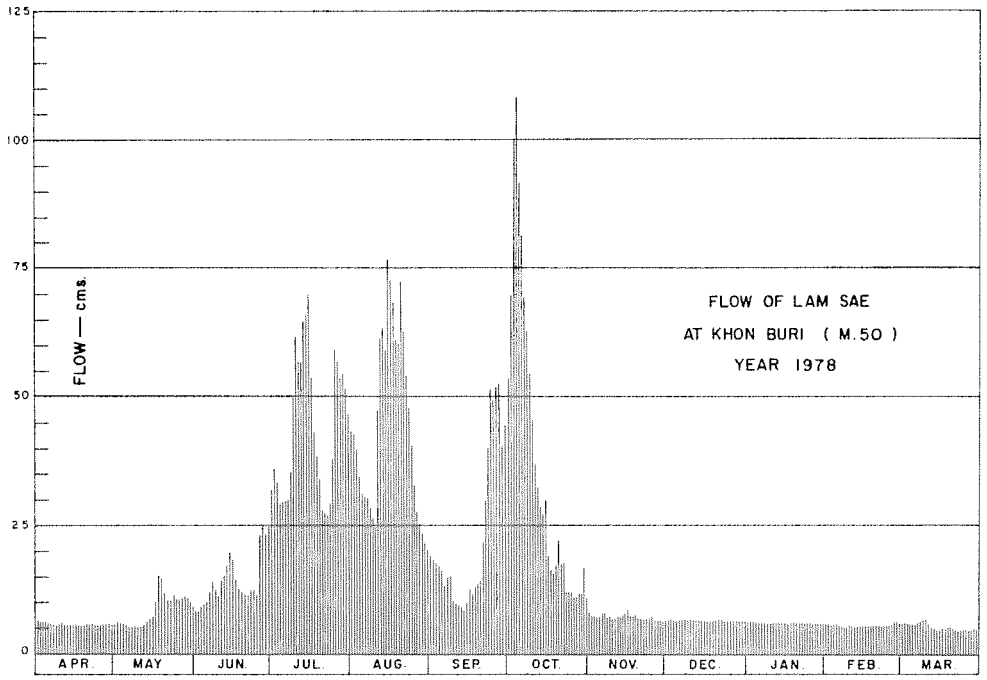
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.67	1.64	1.79	2.22	2.39	2.04	2.56	1.77	1.70	1.66	1.63	1.63	
2	1.66	1.67	1.76	2.30	2.38	2.03	2.63	1.73	1.70	1.66	1.64	1.65	
3	1.66	1.66	1.80	2.27	2.33	2.02	2.82	1.73	1.68	1.66	1.61	1.62	
4	1.65	1.63	1.81	2.21	2.29	2.00	2.88	1.71	1.67	1.66	1.64	1.63	
5	1.62	1.64	1.81	2.21	2.24	1.98	2.80	1.72	1.68	1.66	1.63	1.60	
6	1.62	1.58	1.83	2.22	2.23	1.91	2.71	1.75	1.68	1.65	1.60	1.63	
7	1.61	1.58	1.88	2.22	2.23	1.95	2.63	1.76	1.69	1.64	1.59	1.64	
8	1.58	1.59	1.94	2.23	2.21	1.96	2.55	1.72	1.69	1.64	1.59	1.66	
9	1.62	1.61	1.90	2.40	2.17	1.85	2.48	1.73	1.68	1.64	1.59	1.69	
10	1.65	1.60	1.87	2.56	2.14	1.82	2.40	1.70	1.69	1.64	1.60	1.69	
11	1.63	1.57	1.86	2.52	2.34	1.81	2.33	1.71	1.68	1.65	1.60	1.66	
12	1.62	1.62	1.94	2.52	2.56	1.81	2.26	1.74	1.67	1.65	1.59	1.58	
13	1.63	1.68	1.98	2.59	2.58	1.78	2.21	1.71	1.67	1.65	1.59	1.56	
14	1.58	1.71	2.01	2.60	2.54	1.76	2.18	1.75	1.67	1.65	1.59	1.54	
15	1.63	1.73	2.06	2.63	2.68	1.83	2.22	1.76	1.67	1.64	1.60	1.53	
16	1.60	1.83	2.03	2.57	2.66	1.91	2.11	1.79	1.67	1.63	1.60	1.52	
17	1.60	1.97	1.96	2.45	2.61	1.87	2.01	1.72	1.67	1.63	1.59	1.52	
18	1.60	1.96	1.91	2.36	2.56	1.91	1.97	1.72	1.66	1.64	1.59	1.54	
19	1.61	1.89	1.90	2.32	2.55	1.92	2.01	1.74	1.67	1.64	1.60	1.56	
20	1.63	1.85	1.88	2.22	2.65	1.94	2.10	1.72	1.68	1.64	1.59	1.57	
21	1.63	1.84	1.87	2.19	2.60	2.11	2.01	1.71	1.70	1.64	1.60	1.55	
22	1.64	1.85	1.87	2.18	2.51	2.21	2.02	1.70	1.70	1.65	1.58	1.52	
23	1.63	1.88	1.90	2.17	2.44	2.33	1.89	1.70	1.69	1.64	1.58	1.50	
24	1.61	1.84	1.90	2.23	2.36	2.47	1.89	1.70	1.69	1.63	1.59	1.50	
25	1.62	1.84	1.87	2.38	2.26	2.45	1.89	1.72	1.69	1.63	1.62	1.50	
26	1.63	1.85	1.96	2.54	2.19	2.47	1.86	1.73	1.67	1.63	1.61	1.52	
27	1.65	1.86	2.12	2.52	2.17	2.48	1.86	1.72	1.69	1.63	1.64	1.54	
28	1.63	1.85	2.15	2.49	2.15	2.41	1.88	1.70	1.68	1.63	1.67	1.52	
29	1.63	1.84	2.12	2.50	2.11	2.35	1.88	1.65	1.68	1.63		1.52	
30	1.62	1.84	2.14	2.46	2.08	2.40	2.00	1.70	1.68	1.63		1.53	
31		1.82		2.42	2.06		1.87		1.68	1.63		1.53	
MEAN	1.63	1.75	1.93	2.38	2.36	2.06	2.22	1.72	1.68	1.64	1.61	1.57	
MAX	1.67	1.97	2.15	2.63	2.68	2.48	2.88	1.79	1.70	1.66	1.67	1.69	2.88
MIN	1.58	1.57	1.76	2.17	2.06	1.76	1.86	1.65	1.66	1.63	1.58	1.50	1.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.91 M (A.D), AT 24.00 HOURS, ON OCT 3, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.41	6.02	8.87	30.18	43.75	18.96	61.50	8.41	6.80	6.28	5.89	5.89	
2	6.28	6.41	8.18	36.10	42.90	18.42	70.15	7.49	6.80	6.28	6.02	6.15	
3	6.28	6.28	9.10	33.88	38.65	17.88	98.40	7.49	6.54	6.28	5.63	5.76	
4	6.15	5.89	9.44	29.44	35.36	16.80	108.60	7.03	6.41	6.28	6.02	5.89	
5	5.76	6.02	9.44	29.44	31.66	15.94	95.00	7.26	6.54	6.28	5.89	5.50	
6	5.76	5.28	10.12	30.18	30.92	12.93	81.14	7.95	6.54	6.15	5.50	5.89	
7	5.63	5.28	11.82	30.18	30.92	14.65	70.15	8.18	6.67	6.02	5.39	6.02	
8	5.28	5.39	14.22	30.92	29.44	15.08	60.35	7.26	6.67	6.02	5.39	6.28	
9	5.76	5.63	12.50	44.60	26.75	10.80	52.60	7.49	6.54	6.02	5.39	6.67	
10	6.15	5.50	11.48	61.50	24.80	9.78	44.60	6.80	6.67	6.02	5.50	6.67	
11	5.89	5.17	11.14	56.90	39.50	9.44	38.65	7.03	6.54	6.15	5.50	6.28	
12	5.76	5.76	14.22	56.90	61.50	9.44	33.14	7.72	6.41	6.15	5.39	5.28	
13	5.89	6.54	15.94	64.95	63.80	8.64	29.44	7.03	6.41	6.15	5.39	5.06	
14	5.28	7.03	17.34	66.10	59.20	8.18	27.40	7.95	6.41	6.15	5.39	4.84	
15	5.89	7.49	20.04	70.15	76.90	10.12	30.18	8.18	6.41	6.02	5.50	4.73	
16	5.50	10.12	18.42	62.65	74.20	12.93	22.85	8.87	6.41	5.89	5.50	4.62	
17	5.50	15.51	15.08	49.60	67.45	11.48	17.34	7.26	6.41	5.89	5.39	4.62	
18	5.50	15.08	12.93	41.20	61.50	12.93	15.51	7.26	6.28	6.02	5.39	4.84	
19	5.63	12.16	12.50	37.80	60.35	13.36	17.34	7.72	6.41	6.02	5.50	5.06	
20	5.89	10.80	11.82	30.18	72.85	14.22	22.20	7.26	6.54	6.02	5.39	5.17	
21	5.89	10.46	11.48	28.05	66.10	22.85	17.34	7.03	6.80	6.02	5.50	4.95	
22	6.02	10.80	11.48	27.40	55.75	29.44	17.88	6.80	6.80	6.15	5.28	4.62	
23	5.89	11.82	12.50	26.75	48.60	38.65	12.16	6.80	6.67	6.02	5.28	4.40	
24	5.63	10.46	12.50	30.92	41.20	51.60	12.16	6.80	6.67	5.89	5.39	4.40	
25	5.76	10.46	11.48	42.90	33.14	49.60	12.16	7.26	6.67	5.89	5.76	4.40	
26	5.89	10.80	15.08	59.20	28.05	51.60	11.14	7.49	6.41	5.89	5.63	4.62	
27	6.15	11.14	23.50	56.90	26.75	52.60	11.14	7.26	6.67	5.89	6.02	4.84	
28	5.89	10.80	25.45	53.60	25.45	45.60	11.82	6.80	6.54	5.89	6.41	4.62	
29	5.89	10.46	23.50	54.60	22.85	40.35	11.82	6.15	6.54	5.89		4.62	
30	5.76	10.46	24.80	50.60	21.12	44.60	16.80	6.80	6.54	5.89		4.73	
31		9.78		46.60	20.04		11.48		6.54	5.89		4.73	
TOTAL	174.96	270.80	426.37	1370.37	1361.45	688.87	1142.44	220.83	203.26	187.40	156.23	162.15	6365.12 CMSDAY
MEAN	5.83	8.74	14.21	44.21	43.92	22.96	36.85	7.36	6.56	6.05	5.58	5.23	17.44 CMS
MAX	6.41	15.51	25.45	70.15	76.90	52.60	108.60	8.87	6.80	6.28	6.41	6.67	108.60 CMS
MIN	5.28	5.17	8.18	26.75	20.04	8.18	11.14	6.15	6.28	5.89	5.28	4.40	4.40 CMS
RUNOFF	15.117	23.397	36.838	118.400	117.629	59.518	98.707	19.080	17.562	16.191	13.498	14.010	549.946 MCM

MOMENTARY PEAK 113.80 CMS, AT 2.91 M (A.D), AT 24.00 HOURS, ON OCT 3, 1978

RUNOFF YIELD 19.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 130.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S. NO.1

LOCATION — AT THE FOOT OF THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +6.581 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1968, 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1968, 1972 TO DATE.

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

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +6.157 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

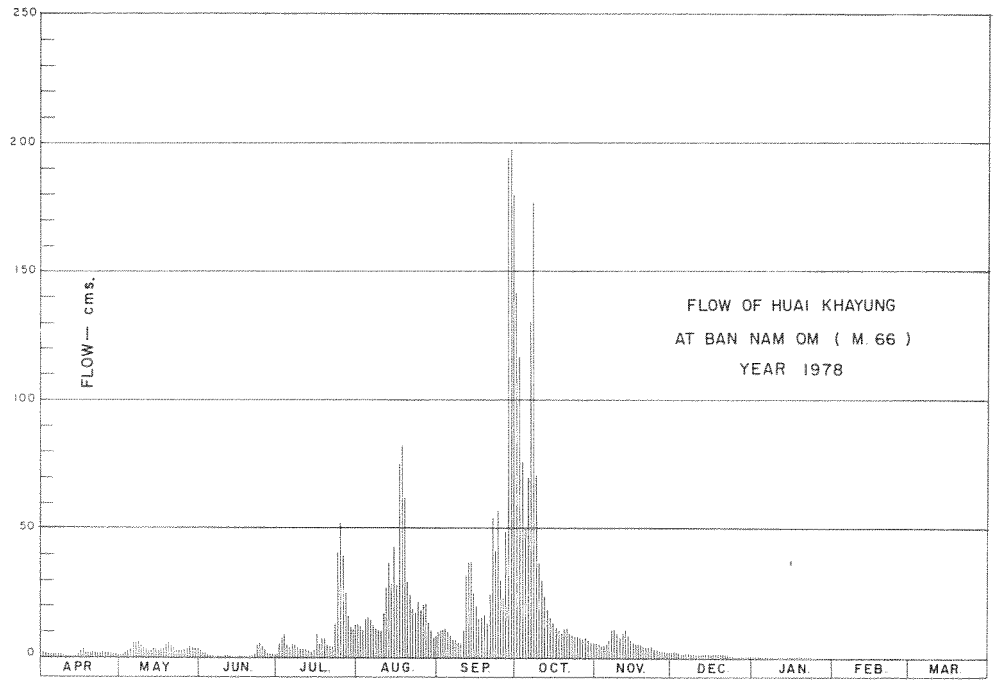
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.55	0.72	0.49	1.55	1.35	5.76	1.02	0.66	0.40	0.26	0.18	
2	0.60	0.53	0.61	1.00	1.48	1.41	5.46	1.00	0.65	0.41	0.25	0.18	
3	0.56	0.65	0.51	1.25	1.41	1.44	4.11	0.96	0.63	0.40	0.26	0.19	
4	0.58	0.78	0.42	1.01	1.73	1.43	3.29	0.94	0.62	0.38	0.27	0.23	
5	0.55	0.85	0.34	0.88	1.66	1.28	3.12	0.97	0.60	0.37	0.26	0.20	
6	0.52	0.98	0.31	0.77	1.59	1.18	3.75	1.11	0.60	0.37	0.25	0.19	
7	0.50	1.02	0.28	0.98	1.44	1.10	4.73	1.36	0.59	0.37	0.25	0.20	
8	0.47	1.11	0.26	0.93	1.35	1.12	4.69	1.44	0.57	0.37	0.25	0.20	
9	0.44	0.95	0.35	0.80	1.40	1.03	3.24	1.31	0.55	0.36	0.24	0.19	
10	0.39	0.83	0.43	0.75	1.40	1.01	2.65	1.25	0.53	0.34	0.24	0.19	
11	0.40	0.77	0.48	0.84	1.84	1.53	2.34	1.19	0.52	0.33	0.20	0.19	
12	0.42	0.72	0.40	0.80	2.28	2.50	2.11	1.44	0.52	0.32	0.22	0.17	
13	0.41	0.77	0.34	0.72	2.69	2.68	1.94	1.35	0.51	0.33	0.24	0.18	
14	0.42	0.84	0.30	0.63	2.34	2.70	1.78	1.21	0.50	0.32	0.23	0.17	
15	0.74	0.83	0.27	0.67	2.92	2.14	1.64	1.11	0.49	0.32	0.22	0.17	
16	0.86	0.74	0.24	1.33	2.31	1.80	1.56	1.05	0.49	0.32	0.23	0.19	
17	0.78	0.85	0.25	1.04	3.96	1.63	1.46	1.02	0.48	0.32	0.23	0.19	
18	0.62	0.86	0.24	1.19	4.16	1.77	1.38	0.98	0.50	0.33	0.22	0.18	
19	0.59	1.12	0.30	1.20	3.29	1.75	1.34	0.94	0.48	0.32	0.22	0.17	
20	0.58	1.02	0.35	0.99	2.38	1.58	1.46	0.92	0.47	0.30	0.22	0.17	
21	0.63	0.87	0.34	0.91	2.14	2.01	1.42	0.90	0.47	0.30	0.21	0.17	
22	0.53	0.77	0.48	0.86	1.92	3.28	1.30	0.87	0.46	0.30	0.21	0.16	
23	0.53	0.75	1.03	1.48	1.74	2.84	1.26	0.85	0.47	0.28	0.21	0.17	
24	0.72	0.72	1.02	2.84	2.04	3.06	1.27	0.81	0.46	0.27	0.20	0.16	
25	0.66	0.71	0.77	3.21	1.87	2.51	1.23	0.78	0.45	0.24	0.20	0.15	
26	0.62	0.81	0.65	2.79	1.94	2.05	1.20	0.75	0.43	0.26	0.20	0.14	
27	0.57	0.94	0.57	2.23	1.98	3.08	1.20	0.74	0.42	0.25	0.20	0.14	
28	0.59	0.89	0.53	1.78	1.64	6.76	1.19	0.72	0.43	0.27	0.20	0.13	
29	0.63	0.86	0.56	1.53	1.39	6.82	1.10	0.70	0.43	0.27		0.13	
30	0.59	0.83	0.51	1.44	1.26	6.49	1.04	0.67	0.42	0.27		0.14	
31		0.83		1.54	1.21		1.03		0.40	0.27		0.13	
MEAN	0.57	0.83	0.46	1.25	2.01	2.38	2.29	1.01	0.51	0.32	0.23	0.17	
MAX	0.86	1.12	1.03	3.21	4.16	6.82	5.76	1.44	0.66	0.41	0.27	0.23	6.82
MIN	0.39	0.53	0.24	0.49	1.21	1.01	1.03	0.67	0.40	0.24	0.20	0.13	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT — 7.09 M (A.D), AT 15.00 HOURS, ON SEP 28, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.96	1.50	2.76	1.15	13.20	10.05	144.36	5.64	2.28	0.70	0.32	0.16	
2	1.80	1.38	1.88	5.40	12.08	10.96	130.98	5.40	2.20	0.75	0.30	0.16	
3	1.56	2.20	1.26	8.60	10.96	11.44	80.84	4.96	2.04	0.70	0.32	0.18	
4	1.68	3.24	0.80	5.52	16.24	11.28	54.70	4.74	1.96	0.64	0.34	0.26	
5	1.50	3.85	0.52	4.12	15.02	9.02	49.60	5.07	1.80	0.61	0.32	0.20	
6	1.32	5.18	0.43	3.16	13.84	7.64	68.85	6.73	1.80	0.61	0.30	0.18	
7	1.20	5.64	0.36	5.18	11.44	6.60	177.51	10.20	1.74	0.61	0.30	0.20	
8	1.05	6.73	0.32	4.63	10.05	6.86	101.04	11.44	1.62	0.61	0.30	0.20	
9	0.90	4.85	0.55	3.40	10.80	5.76	53.20	9.45	1.50	0.58	0.28	0.18	
10	0.67	3.67	0.85	3.00	10.80	5.52	36.50	8.60	1.38	0.52	0.28	0.18	
11	0.70	3.16	1.10	3.76	18.26	12.88	28.92	7.77	1.32	0.49	0.20	0.18	
12	0.80	2.76	0.70	3.40	27.54	32.70	23.72	11.44	1.32	0.46	0.24	0.14	
13	0.75	3.16	0.52	2.76	37.54	37.28	20.20	10.05	1.26	0.49	0.28	0.16	
14	0.80	3.76	0.40	2.04	28.92	37.80	17.14	8.04	1.20	0.46	0.26	0.14	
15	2.92	3.67	0.34	2.36	43.78	24.38	14.68	6.73	1.15	0.46	0.24	0.14	
16	3.94	2.92	0.28	9.75	28.23	17.50	13.36	6.00	1.15	0.46	0.26	0.18	
17	3.24	3.85	0.30	5.88	75.78	14.51	11.76	5.64	1.10	0.46	0.26	0.18	
18	1.96	3.94	0.28	7.77	82.54	16.96	10.50	5.18	1.20	0.49	0.24	0.16	
19	1.74	6.86	0.40	7.90	54.70	16.60	9.90	4.74	1.10	0.46	0.24	0.14	
20	1.68	5.64	0.55	5.29	29.84	13.68	11.76	4.52	1.05	0.40	0.24	0.14	
21	2.04	4.03	0.52	4.41	24.38	21.61	11.12	4.30	1.05	0.40	0.22	0.14	
22	1.38	3.16	1.10	3.94	19.80	54.40	9.30	4.03	1.00	0.40	0.22	0.12	
23	1.38	3.00	5.76	12.08	16.42	41.58	8.74	3.85	1.05	0.36	0.22	0.14	
24	2.76	2.76	5.64	41.58	22.24	47.84	8.88	3.49	1.00	0.34	0.20	0.12	
25	2.28	2.68	3.16	52.30	18.83	32.95	8.32	3.24	0.95	0.28	0.20	0.10	
26	1.96	3.49	2.20	40.23	20.20	22.45	7.90	3.00	0.85	0.32	0.20	0.08	
27	1.62	4.74	1.62	26.39	21.00	48.42	7.90	2.92	0.80	0.30	0.20	0.08	
28	1.74	4.21	1.38	17.14	14.68	194.36	7.77	2.76	0.85	0.34	0.20	0.06	
29	2.04	3.94	1.56	12.88	10.65	197.76	6.60	2.60	0.85	0.34		0.06	
30	1.74	3.67	1.26	11.44	8.74	179.99	5.88	2.36	0.80	0.34		0.08	
31		3.67		13.04	8.04		5.76		0.70	0.34		0.06	
TOTAL	51.11	117.31	38.80	330.50	736.54	1150.78	1147.69	174.89	40.07	14.72	7.18	4.50	3814.08 CMSDAY
MEAN	1.70	3.78	1.29	10.66	23.76	38.36	37.02	5.83	1.29	0.47	0.26	0.15	10.45 CMS
MAX	3.94	6.86	5.76	52.30	82.54	197.76	177.51	11.44	2.28	0.75	0.34	0.26	197.76 CMS
MIN	0.67	1.38	0.28	1.15	8.04	5.52	5.76	2.36	0.70	0.28	0.20	0.06	0.06 CMS
RUNOFF	4.416	10.136	3.352	28.555	63.637	99.427	99.160	15.110	3.462	1.272	0.620	0.389	329.537 MCM

MOMENTARY PEAK 213.80 CMS, AT 7.09 M (A.D), AT 15.00 HOURS, ON SEP 28, 1978

RUNOFF YIELD 17.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 364.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 1969 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969 TO DATE.

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 74 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW IS EFFECTED BY BACKWATER OF MUN RIVER.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

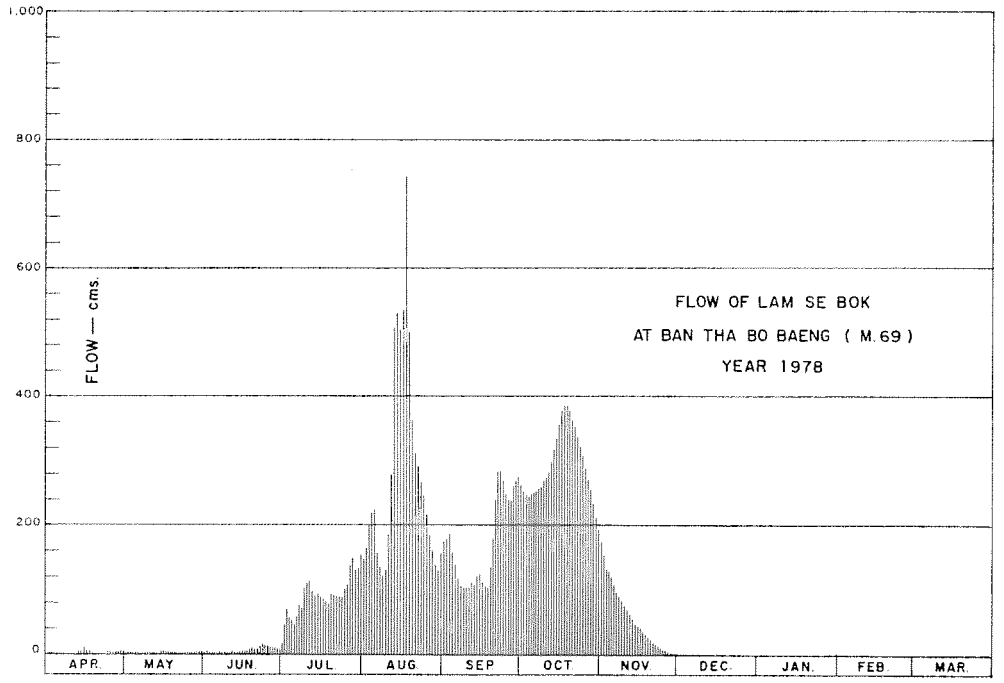
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.91	0.99	1.57	4.54	6.79	8.73	6.78	1.24	0.90	0.76	0.77	
2	0.64	0.86	1.02	2.48	4.58	6.78	8.53	6.37	1.20	0.88	0.78	0.77	
3	0.64	0.84	1.01	3.12	5.17	6.99	8.35	5.82	1.18	0.86	0.77	0.77	
4	0.64	0.83	0.98	2.67	5.75	6.70	8.27	5.78	1.16	0.84	0.77	0.78	
5	0.64	0.81	0.97	2.77	5.88	6.29	8.34	5.51	1.15	0.84	0.76	0.77	
6	0.65	0.79	0.97	2.38	5.23	5.83	8.45	5.29	1.15	0.84	0.77	0.79	
7	0.65	0.78	0.96	3.04	4.50	5.39	8.49	4.92	1.15	0.83	0.78	0.78	
8	0.65	0.77	1.00	3.13	4.25	5.26	8.53	4.84	1.14	0.83	0.80	0.79	
9	0.65	0.78	1.06	3.16	4.09	5.13	8.58	4.67	1.13	0.84	0.80	0.79	
10	0.63	0.79	1.04	3.75	4.24	5.12	8.68	4.48	1.12	0.86	0.80	0.79	
11	0.63	0.78	1.09	3.89	5.24	5.12	8.85	4.28	1.09	0.86	0.80	0.78	
12	0.86	0.77	1.01	3.74	7.45	5.32	9.04	4.08	1.09	0.86	0.79	0.78	
13	1.08	0.78	0.98	3.53	9.48	5.19	9.39	3.89	1.09	0.86	0.79	0.79	
14	1.07	0.79	0.97	3.38	9.67	5.56	9.71	3.70	1.05	0.85	0.79	0.79	
15	1.10	1.01	1.00	3.52	9.48	5.63	9.97	3.53	1.04	0.83	0.79	0.79	
16	1.03	1.09	1.04	3.39	9.76	5.37	10.17	3.50	1.03	0.82	0.78	0.79	
17	0.96	1.02	1.13	3.36	10.96	5.20	10.30	3.20	1.01	0.82	0.79	0.79	
18	0.88	1.00	1.24	3.32	11.00	5.16	10.36	3.03	0.99	0.82	0.80	0.80	
19	0.83	0.98	1.31	3.22	10.59	5.61	10.37	2.88	0.98	0.81	0.80	0.80	
20	0.83	0.94	1.24	3.13	10.12	6.18	10.30	2.73	0.98	0.81	0.80	0.80	
21	0.80	0.90	1.22	3.09	9.54	8.31	10.19	2.56	0.97	0.81	0.80	0.79	
22	0.82	0.87	1.45	3.08	9.35	9.09	10.03	2.36	0.96	0.81	0.79	0.80	
23	0.91	0.88	1.51	3.08	9.08	9.11	9.84	2.14	0.96	0.81	0.79	0.79	
24	1.04	0.88	1.47	3.25	8.56	8.88	9.63	1.93	0.95	0.80	0.79	0.78	
25	1.07	0.89	1.47	3.67	8.05	8.55	9.39	1.73	0.96	0.80	0.79	0.78	
26	1.01	0.91	1.42	3.83	7.68	8.20	9.10	1.58	0.96	0.80	0.78	0.78	
27	1.01	0.93	1.35	4.40	7.18	8.13	8.79	1.46	0.95	0.80	0.79	0.78	
28	1.10	0.99	1.31	4.60	6.51	8.37	8.44	1.38	0.94	0.80	0.78	0.77	
29	1.03	1.00	1.28	4.32	6.18	8.78	8.06	1.32	0.94	0.79		0.77	
30	0.97	0.98	1.26	4.33	5.74	8.88	7.64	1.27	0.93	0.79		0.76	
31		1.02		4.67	6.50		7.20		0.92	0.79		0.76	
MEAN	0.85	0.89	1.16	3.38	7.30	6.70	9.09	3.57	1.05	0.83	0.79	0.78	
MAX	1.10	1.09	1.51	4.67	11.00	9.11	10.37	6.78	1.24	0.90	0.80	0.80	11.00
MIN	0.63	0.77	0.96	1.57	4.09	5.12	7.20	1.27	0.92	0.79	0.76	0.76	0.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.07 M (A.D), AT 9.00 HOURS, ON AUG 18, 1978

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 2132 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	3.65	4.85	17.96	146.40	177.05	269.50	176.60	2.20	0.50	0.22	0.24	
2	0.40	2.90	5.40	47.32	148.80	176.60	259.50	158.15	2.00	0.46	0.26	0.24	
3	0.40	2.60	5.20	73.00	184.20	186.05	250.50	133.40	1.90	0.42	0.24	0.24	
4	0.40	2.45	4.70	53.95	219.00	173.00	246.50	131.60	1.80	0.38	0.24	0.26	
5	0.40	2.15	4.55	57.80	226.80	154.55	250.00	119.45	1.75	0.38	0.22	0.24	
6	0.50	1.90	4.55	43.92	187.80	133.85	255.50	110.60	1.75	0.38	0.24	0.28	
7	0.50	1.80	4.40	69.12	144.00	114.60	257.50	95.80	1.75	0.36	0.26	0.26	
8	0.50	1.70	5.00	73.50	130.25	109.40	259.50	92.60	1.70	0.36	0.30	0.28	
9	0.50	1.80	6.20	75.00	121.50	104.20	262.00	85.80	1.65	0.38	0.30	0.28	
10	0.30	1.90	5.80	104.50	129.70	103.80	267.00	78.20	1.60	0.42	0.30	0.28	
11	0.30	1.80	6.80	111.50	188.40	103.80	275.50	70.30	1.45	0.42	0.30	0.26	
12	2.90	1.70	5.20	104.00	330.50	111.80	285.00	63.30	1.45	0.42	0.28	0.26	
13	6.60	1.80	4.70	93.50	507.70	106.60	303.90	56.65	1.45	0.42	0.28	0.28	
14	6.40	1.90	4.55	86.00	530.25	121.70	325.36	50.00	1.25	0.40	0.28	0.28	
15	7.00	5.20	5.00	93.00	507.70	124.85	345.60	44.40	1.20	0.36	0.28	0.28	
16	5.60	6.80	5.80	86.50	541.80	113.80	364.00	43.50	1.15	0.34	0.26	0.28	
17	4.40	5.40	7.60	85.00	559.00	107.00	379.00	35.50	1.05	0.34	0.28	0.28	
18	3.20	5.00	9.84	83.00	585.00	105.40	386.80	30.97	0.95	0.34	0.30	0.30	
19	2.45	4.70	11.31	78.00	423.20	123.95	388.10	27.10	0.90	0.32	0.30	0.30	
20	2.45	4.10	9.84	73.50	359.00	149.60	379.00	24.10	0.90	0.32	0.30	0.30	
21	2.00	3.50	9.42	71.52	313.10	248.50	366.00	20.70	0.85	0.32	0.30	0.28	
22	2.30	3.05	14.60	71.04	301.50	287.50	350.70	16.70	0.80	0.32	0.28	0.30	
23	3.65	3.20	16.28	71.04	287.00	288.50	335.32	12.60	0.80	0.32	0.28	0.28	
24	5.80	3.20	15.16	79.50	261.00	277.00	319.28	9.86	0.75	0.30	0.28	0.26	
25	6.40	3.35	15.16	100.50	235.50	260.50	303.90	7.46	0.80	0.30	0.28	0.26	
26	5.20	3.65	13.76	108.50	217.10	243.00	288.00	5.66	0.80	0.30	0.26	0.26	
27	5.20	3.95	12.15	138.50	194.60	239.50	272.50	4.22	0.75	0.30	0.28	0.26	
28	7.00	4.85	11.31	150.00	164.45	251.50	255.00	3.30	0.70	0.30	0.26	0.24	
29	5.60	5.00	10.68	134.10	149.60	272.00	236.00	2.70	0.70	0.28		0.24	
30	4.55	4.70	10.26	134.65	129.80	277.00	215.30	2.35	0.65	0.28		0.22	
31		5.40		154.20	164.00		195.50		0.60	0.28		0.22	
TOTAL	93.30	105.10	250.07	2723.62	8588.65	5246.60	9147.25	1713.57	38.05	11.02	7.66	8.24	27933.11 CMSDAY
MEAN	3.11	3.39	8.34	87.86	277.05	174.89	295.07	57.12	1.23	0.36	0.27	0.27	76.53 CMS
MAX	7.00	6.80	16.28	154.20	585.00	288.50	388.10	176.60	2.20	0.50	0.30	0.30	585.00 CMS
MIN	0.30	1.70	4.40	17.96	121.50	103.80	195.50	2.35	0.60	0.28	0.22	0.22	0.22 CMS
RUNOFF	8.061	9.081	21.606	235.321	742.059	453.306	790.323	148.052	3.288	0.952	0.662	0.712	2413.420 MCM

MOMENTARY PEAK 690.00 CMS, AT 11.07 M (A.D), AT 9.00 HOURS, ON AUG 18, 1978

RUNOFF YIELD 35.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 323.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 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 11 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

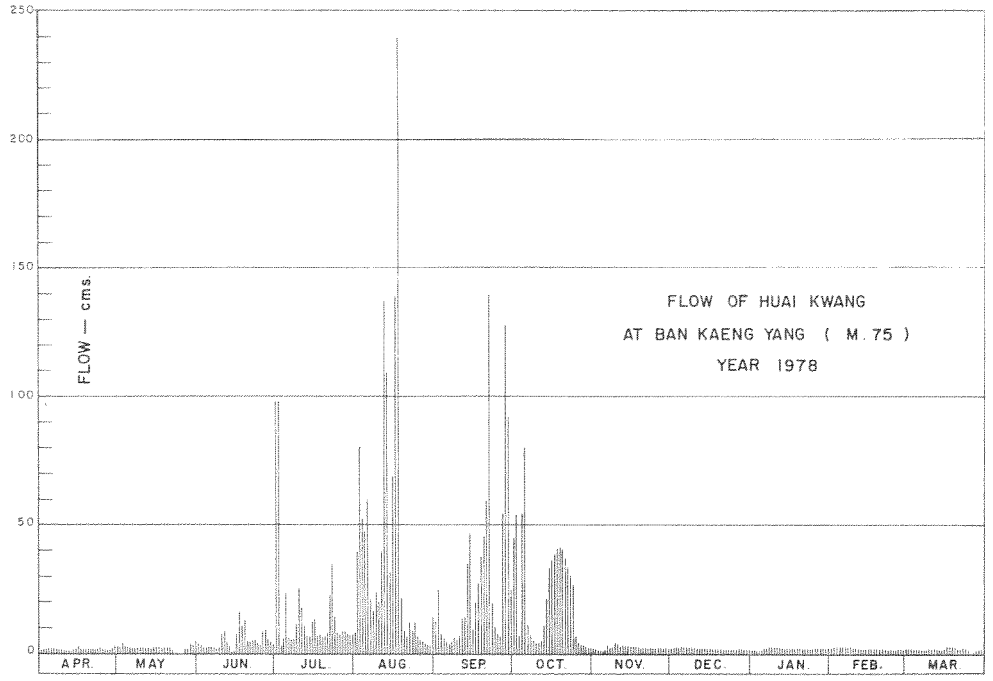
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.39	1.56	1.60	4.17	1.82	1.91	2.47	1.49	1.49	1.45	1.51	1.50	
2	1.41	1.55	1.57	4.17	3.64	2.19	2.90	1.44	1.50	1.44	1.53	1.50	
3	1.41	1.63	1.53	1.55	2.89	1.89	1.97	1.43	1.51	1.42	1.53	1.50	
4	1.41	1.56	1.52	1.71	2.70	1.74	1.77	1.35	1.51	1.43	1.53	1.50	
5	1.40	1.53	1.54	2.16	3.06	1.66	3.64	1.35	1.51	1.46	1.53	1.48	
6	1.39	1.52	1.57	1.83	2.31	1.62	2.38	1.55	1.52	1.50	1.53	1.52	
7	1.38	1.52	1.54	1.70	2.11	1.63	1.89	1.55	1.52	1.51	1.52	1.51	
8	1.37	1.50	1.50	1.67	2.02	1.75	1.74	1.53	1.52	1.52	1.51	1.53	
9	1.37	1.50	1.51	1.86	2.20	1.66	1.66	1.56	1.52	1.52	1.50	1.51	
10	1.36	1.48	1.72	2.21	2.10	1.78	1.63	1.65	1.50	1.52	1.49	1.46	
11	1.33	1.46	1.80	2.06	2.48	1.92	1.62	1.54	1.50	1.51	1.49	1.47	
12	1.28	1.46	1.62	1.90	5.27	1.96	1.71	1.55	1.50	1.51	1.49	1.42	
13	1.25	1.46	1.48	1.76	4.33	2.21	1.93	1.57	1.50	1.50	1.49	1.46	
14	1.42	1.46	1.18	1.73	2.32	2.69	2.14	1.55	1.49	1.53	1.48	1.42	
15	1.54	1.51	1.36	1.90	3.25	2.04	2.29	1.54	1.48	1.53	1.47	1.42	
16	1.50	1.51	1.71	1.96	6.06	1.84	2.40	1.54	1.49	1.52	1.50	1.53	
17	1.45	1.52	2.01	1.78	7.79	2.21	2.49	1.54	1.48	1.52	1.49	1.53	
18	1.46	1.53	1.86	1.80	3.97	2.30	2.54	1.53	1.48	1.52	1.49	1.53	
19	1.43	1.51	1.93	1.70	2.14	2.55	2.54	1.52	1.48	1.52	1.48	1.51	
20	1.41	1.51	1.69	1.73	1.83	2.81	2.50	1.52	1.48	1.50	1.49	1.44	
21	1.43	1.50	1.61	1.79	1.73	5.30	2.40	1.50	1.47	1.50	1.49	1.42	
22	1.46	1.47	1.69	2.17	1.91	3.06	2.27	1.52	1.48	1.49	1.48	1.52	
23	1.48	0.94	1.68	2.37	1.82	2.09	2.13	1.52	1.48	1.48	1.49	1.52	
24	1.51	0.81	1.62	1.97	1.91	1.90	2.06	1.51	1.48	1.48	1.46	1.49	
25	1.48	0.89	1.60	1.80	1.78	1.82	1.82	1.51	1.47	1.49	1.42	1.33	
26	1.44	1.00	1.80	1.73	1.70	1.75	1.64	1.49	1.46	1.50	1.48	1.11	
27	1.42	1.48	1.81	1.83	1.64	3.67	1.61	1.49	1.45	1.51	1.49	1.24	
28	1.42	1.48	1.70	1.83	1.60	5.01	1.56	1.48	1.46	1.51	1.49	1.40	
29	1.49	1.59	1.63	1.78	1.58	3.21	1.52	1.47	1.47	1.51		1.49	
30	1.60	1.57	1.58	1.75	1.55	2.22	1.47	1.48	1.47	1.51		1.50	
31		1.67		1.78	1.96		1.53		1.45	1.49		1.49	
MEAN	1.42	1.44	1.63	2.00	2.69	2.35	2.07	1.51	1.49	1.50	1.49	1.46	
MAX	1.60	1.67	2.01	4.17	7.79	5.30	3.64	1.65	1.52	1.53	1.53	1.53	7.79
MIN	1.25	0.81	1.18	1.55	1.55	1.62	1.47	1.35	1.45	1.42	1.42	1.11	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT — 9.12 M (A.D), AT 24.00 HOURS, ON AUG 16, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.45	3.40	4.00	98.95	8.80	12.40	39.45	2.40	2.40	2.00	2.65	2.50	
2	1.60	3.25	3.55	98.95	80.40	24.55	54.50	1.90	2.50	1.90	2.95	2.50	
3	1.60	4.60	2.95	3.25	54.15	11.60	14.80	1.80	2.65	1.70	2.95	2.50	
4	1.60	3.40	2.80	6.20	47.50	6.80	7.40	1.25	2.65	1.80	2.95	2.50	
5	1.50	2.95	3.10	23.20	60.10	5.20	80.40	1.25	2.65	2.10	2.95	2.30	
6	1.45	2.80	3.55	9.20	30.70	4.40	35.60	3.25	2.80	2.50	2.95	2.80	
7	1.40	2.80	3.10	6.00	20.95	4.60	11.60	3.25	2.80	2.65	2.80	2.65	
8	1.35	2.50	2.50	5.40	16.90	7.00	6.80	2.95	2.80	2.80	2.65	2.95	
9	1.35	2.50	2.65	10.40	25.00	5.20	5.20	3.40	2.80	2.80	2.50	2.65	
10	1.30	2.30	6.40	25.50	20.50	7.60	4.60	5.00	2.50	2.80	2.40	2.10	
11	1.15	2.10	8.00	18.70	39.80	12.80	4.40	3.10	2.50	2.65	2.40	2.20	
12	0.90	2.10	4.40	12.00	138.80	14.40	6.20	3.25	2.50	2.65	2.40	1.70	
13	0.75	2.10	2.30	7.20	104.55	25.50	13.20	3.55	2.50	2.50	2.40	2.10	
14	1.70	2.10	0.44	6.60	31.40	47.15	22.30	3.25	2.40	2.95	2.30	1.70	
15	3.10	2.65	1.30	12.00	66.75	17.80	29.50	3.10	2.30	2.95	2.20	1.70	
16	2.50	2.65	6.20	14.40	170.40	9.60	37.00	3.10	2.40	2.80	2.50	2.95	
17	2.00	2.80	16.45	7.60	239.60	25.50	40.15	3.10	2.30	2.80	2.40	2.95	
18	2.10	2.95	10.40	8.00	91.95	30.00	41.90	2.95	2.30	2.80	2.40	2.95	
19	1.80	2.65	13.20	6.00	22.30	42.25	41.90	2.80	2.30	2.80	2.30	2.65	
20	1.60	2.65	5.80	6.60	9.20	51.35	40.50	2.80	2.30	2.50	2.40	1.90	
21	1.80	2.50	4.20	7.80	6.60	140.00	37.00	2.50	2.20	2.50	2.40	1.70	
22	2.10	2.20	5.80	23.65	12.40	60.10	28.50	2.80	2.30	2.40	2.30	2.80	
23	2.30	0.00	5.60	34.90	8.80	20.05	21.85	2.80	2.30	2.30	2.40	2.80	
24	2.65	0.00	4.40	14.80	12.40	12.00	18.70	2.65	2.30	2.30	2.10	2.40	
25	2.30	0.00	4.00	8.00	7.60	8.80	8.80	2.65	2.20	2.40	1.70	1.15	
26	1.90	0.00	8.00	6.80	6.00	7.00	4.80	2.40	2.10	2.50	2.30	0.23	
27	1.70	2.30	8.40	9.20	4.80	81.45	4.20	2.40	2.00	2.65	2.40	0.70	
28	1.70	2.30	6.00	9.20	4.00	128.40	3.40	2.30	2.10	2.65	2.40	1.50	
29	2.40	3.85	4.60	7.60	3.70	65.35	2.80	2.20	2.20	2.65		2.40	
30	4.00	3.55	3.70	7.00	3.25	26.00	2.20	2.30	2.20	2.65		2.50	
31		5.40		7.60	14.40		2.95		2.00	2.40		2.40	
TOTAL	55.05	77.35	157.79	522.50	1363.70	914.85	672.60	82.45	74.25	77.85	69.45	68.83	4136.66 CMSDAY
MEAN	1.83	2.50	5.26	16.85	43.99	30.49	21.70	2.75	2.40	2.51	2.48	2.22	11.33 CMS
MAX	4.00	5.40	16.45	98.95	239.60	140.00	80.40	5.00	2.80	2.95	2.95	2.95	239.60 CMS
MIN	0.75	0.00	0.44	3.25	3.25	4.40	2.20	1.25	2.00	1.70	1.70	0.23	0.00 CMS
RUNOFF	4.756	6.683	13.633	45.144	117.823	79.043	58.113	7.124	6.415	6.726	6.000	5.947	357.408 MCM

MOMENTARY PEAK 298.90 CMS, AT 9.12 M'(A.D), AT 24.00 HOURS, ON AUG 16, 1978

RUNOFF YIELD 29.21 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 770.36 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +11.826 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

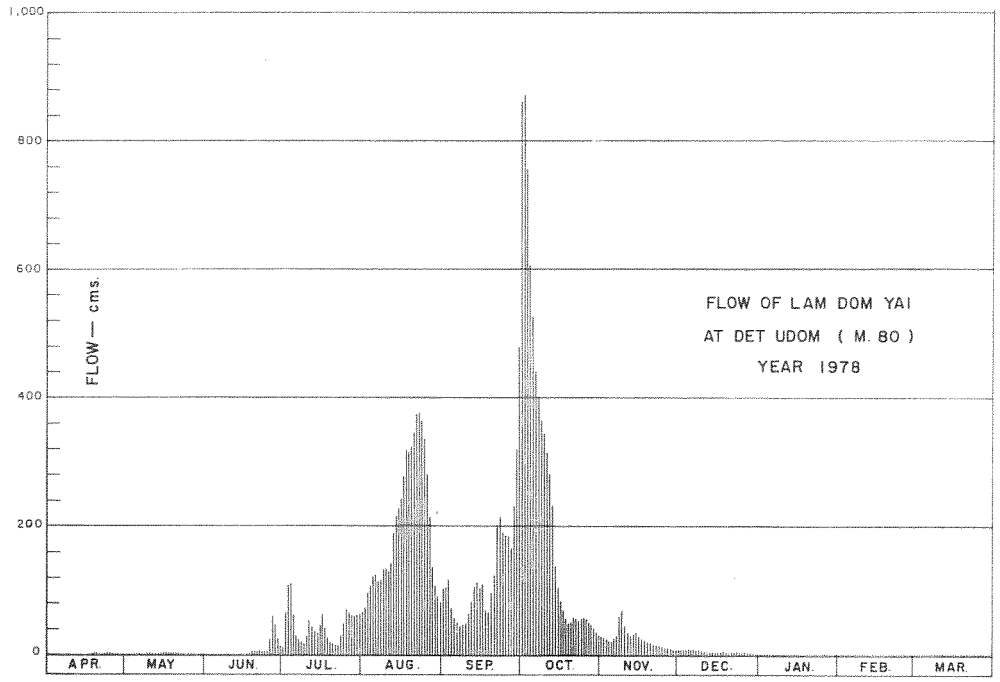
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.56	0.70	0.75	1.47	3.38	4.32	11.46	2.17	1.34	0.92	0.74	0.64	
2	0.56	0.69	0.83	3.22	3.59	4.35	11.48	2.07	1.32	0.91	0.74	0.64	
3	0.53	0.69	0.81	4.38	4.15	4.55	11.21	1.97	1.30	0.91	0.73	0.63	
4	0.55	0.68	0.77	4.45	4.42	3.56	10.82	1.91	1.28	0.91	0.74	0.62	
5	0.55	0.66	0.79	3.34	4.67	3.18	10.41	1.88	1.26	0.90	0.75	0.62	
6	0.54	0.67	0.85	2.26	4.78	2.92	9.99	2.05	1.24	0.90	0.74	0.63	
7	0.54	0.68	0.91	2.02	4.46	2.81	9.58	2.24	1.23	0.90	0.73	0.63	
8	0.53	0.77	0.80	1.80	4.55	2.74	9.20	3.18	1.20	0.90	0.72	0.62	
9	0.53	0.77	0.69	1.66	4.91	2.80	8.83	3.41	1.19	0.88	0.71	0.62	
10	0.53	0.77	0.69	1.81	4.93	2.86	8.49	2.76	1.17	0.87	0.71	0.62	
11	0.53	0.74	0.70	2.98	4.86	3.55	8.08	2.41	1.15	0.86	0.70	0.62	
12	0.55	0.77	0.70	2.66	5.19	3.95	7.45	2.29	1.13	0.86	0.70	0.62	
13	0.56	0.73	0.73	2.44	6.18	4.33	6.27	2.35	1.12	0.85	0.70	0.62	
14	0.59	0.72	0.75	2.32	6.59	4.47	5.07	2.39	1.12	0.88	0.69	0.61	
15	0.75	0.82	0.74	2.36	6.72	4.28	4.33	2.25	1.10	0.85	0.67	0.61	
16	0.73	0.83	0.71	3.25	6.95	4.37	3.94	2.12	1.09	0.83	0.70	0.60	
17	0.64	0.85	0.71	2.70	7.91	3.46	3.61	2.02	1.08	0.82	0.68	0.59	
18	0.71	0.85	0.72	2.15	8.23	3.36	3.15	1.92	1.07	0.81	0.67	0.60	
19	0.99	0.83	0.96	1.87	8.15	3.95	2.90	1.84	1.06	0.81	0.68	0.59	
20	0.85	0.86	1.19	1.73	8.30	4.31	2.96	1.77	1.05	0.80	0.67	0.59	
21	0.78	0.81	1.20	1.65	8.73	5.21	3.17	1.71	1.04	0.80	0.67	0.59	
22	0.78	0.79	1.18	1.57	9.05	6.23	3.12	1.65	1.04	0.79	0.67	0.58	
23	0.97	0.77	1.12	1.65	9.10	6.47	2.94	1.60	1.03	0.78	0.66	0.58	
24	0.94	0.74	1.05	2.39	8.77	6.02	3.02	1.56	1.02	0.77	0.65	0.58	
25	0.79	0.72	1.01	3.06	8.00	5.90	3.13	1.52	1.00	0.77	0.65	0.59	
26	0.71	0.73	2.07	3.56	6.85	5.91	3.00	1.48	0.97	0.76	0.65	0.58	
27	0.67	0.72	3.21	3.37	5.48	5.55	2.86	1.45	0.95	0.75	0.65	0.57	
28	0.66	0.74	2.83	3.18	4.66	6.25	2.75	1.42	0.94	0.75	0.64	0.57	
29	0.64	0.73	2.12	3.16	4.25	7.55	2.58	1.39	0.93	0.74		0.58	
30	0.67	0.73	1.61	3.26	3.92	9.65	2.33	1.36	0.93	0.77		0.58	
31		0.72		3.26	3.70		2.20		0.92	0.75		0.56	
MEAN	0.66	0.75	1.11	2.61	5.98	4.63	5.82	2.00	1.11	0.83	0.69	0.60	
MAX	0.99	0.86	3.21	4.45	9.10	9.65	11.48	3.41	1.34	0.92	0.75	0.64	11.48
MIN	0.53	0.66	0.69	1.47	3.38	2.74	2.20	1.36	0.92	0.74	0.64	0.56	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.59 M (A.D), AT 17.00 HOURS, ON OCT 1, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 13.60 M (A.D)
RIGHT BANK ELEVATION 12.50 M (A.D), DRAINAGE AREA 3363 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.56	1.60	2.00	12.90	68.30	106.40	860.00	29.25	10.30	3.80	1.92	1.12	
2	0.56	1.52	2.73	62.70	76.60	107.75	869.00	26.75	9.90	3.65	1.92	1.12	
3	0.38	1.52	2.51	109.10	99.00	116.75	756.90	24.25	9.50	3.65	1.84	1.04	
4	0.50	1.44	2.16	112.25	110.90	75.40	624.80	22.75	9.20	3.65	1.92	0.96	
5	0.50	1.28	2.32	66.90	122.15	61.30	528.90	22.00	8.90	3.50	2.00	0.96	
6	0.44	1.36	2.95	31.80	127.50	52.20	462.75	26.25	8.60	3.50	1.92	1.04	
7	0.44	1.44	3.65	25.50	112.70	48.35	418.20	31.20	8.45	3.50	1.84	1.04	
8	0.38	2.16	2.40	20.00	116.75	46.20	386.50	61.30	8.00	3.50	1.76	0.96	
9	0.38	2.16	1.52	16.70	134.00	48.00	360.10	69.40	7.85	3.28	1.68	0.96	
10	0.38	2.16	1.52	20.25	135.00	50.10	337.35	46.80	7.55	3.17	1.68	0.96	
11	0.38	1.92	1.60	54.30	131.50	75.00	310.80	36.30	7.25	3.06	1.60	0.96	
12	0.50	2.16	1.60	43.80	148.00	91.00	273.45	32.70	6.95	3.06	1.60	0.96	
13	0.56	1.84	1.84	37.20	200.90	106.85	205.85	34.50	6.80	2.95	1.60	0.96	
14	0.74	1.76	2.00	33.60	223.45	113.15	142.00	35.70	6.80	3.28	1.52	0.88	
15	2.00	2.62	1.92	34.80	230.96	104.60	106.85	31.50	6.50	2.95	1.36	0.88	
16	1.84	2.73	1.68	63.75	244.30	108.65	90.60	28.00	6.35	2.73	1.60	0.80	
17	1.12	2.95	1.68	45.00	300.60	71.40	77.40	25.50	6.20	2.62	1.44	0.74	
18	1.68	2.95	1.76	28.75	320.45	67.60	60.25	23.00	6.05	2.51	1.36	0.80	
19	4.85	2.73	4.40	21.75	315.25	91.00	51.50	21.00	5.90	2.51	1.44	0.74	
20	2.95	3.06	7.85	18.25	325.00	105.95	53.60	19.25	5.75	2.40	1.36	0.74	
21	2.24	2.51	8.00	16.50	353.10	149.00	60.95	17.75	5.60	2.40	1.36	0.74	
22	2.24	2.32	7.70	14.90	375.50	203.65	59.20	16.50	5.60	2.32	1.36	0.68	
23	4.55	2.16	6.80	16.50	379.00	216.85	52.90	15.50	5.45	2.24	1.28	0.68	
24	4.10	1.92	5.75	35.70	355.90	192.10	55.70	14.70	5.30	2.16	1.20	0.68	
25	2.32	1.76	5.15	57.10	306.00	185.50	59.55	13.90	5.00	2.16	1.20	0.74	
26	1.68	1.84	26.75	75.40	238.50	186.05	55.00	13.10	4.55	2.08	1.20	0.68	
27	1.36	1.76	62.35	67.95	162.50	166.25	50.10	12.50	4.25	2.00	1.20	0.62	
28	1.28	1.92	49.05	61.30	121.70	204.75	46.50	11.90	4.10	2.00	1.12	0.62	
29	1.12	1.84	28.00	60.60	103.25	279.35	41.40	11.30	3.95	1.92		0.68	
30	1.36	1.84	15.70	64.10	89.80	425.00	33.90	10.70	3.95	2.16		0.68	
31		1.76		64.10	81.00		30.00		3.80	2.00		0.56	
TOTAL	43.39	62.99	265.34	1393.45	6109.56	3856.15	7521.99	785.25	204.35	86.71	43.28	25.98	20398.42 CMSDAY
MEAN	1.45	2.03	8.84	44.95	197.08	128.54	242.64	26.17	6.59	2.80	1.55	0.84	55.89 CMS
MAX	4.85	3.06	62.35	112.25	379.00	425.00	869.00	69.40	10.30	3.80	2.00	1.12	869.00 CMS
MIN	0.38	1.28	1.52	12.90	68.30	46.20	30.00	10.70	3.80	1.92	1.12	0.56	0.38 CMS
RUNOFF	3.749	5.442	22.925	120.394	527.866	333.171	649.900	67.846	17.656	7.492	3.739	2.245	1762.423 MCM

MOMENTARY PEAK 921.20 CMS, AT 11.59 M (A.D), AT 17.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 16.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 273.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — BESIDE THE LADDER OF AUTOMATIC GAGE BUILDING.

ELEVATION — +216.857 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1970 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1970 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1970 TO DATE.

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

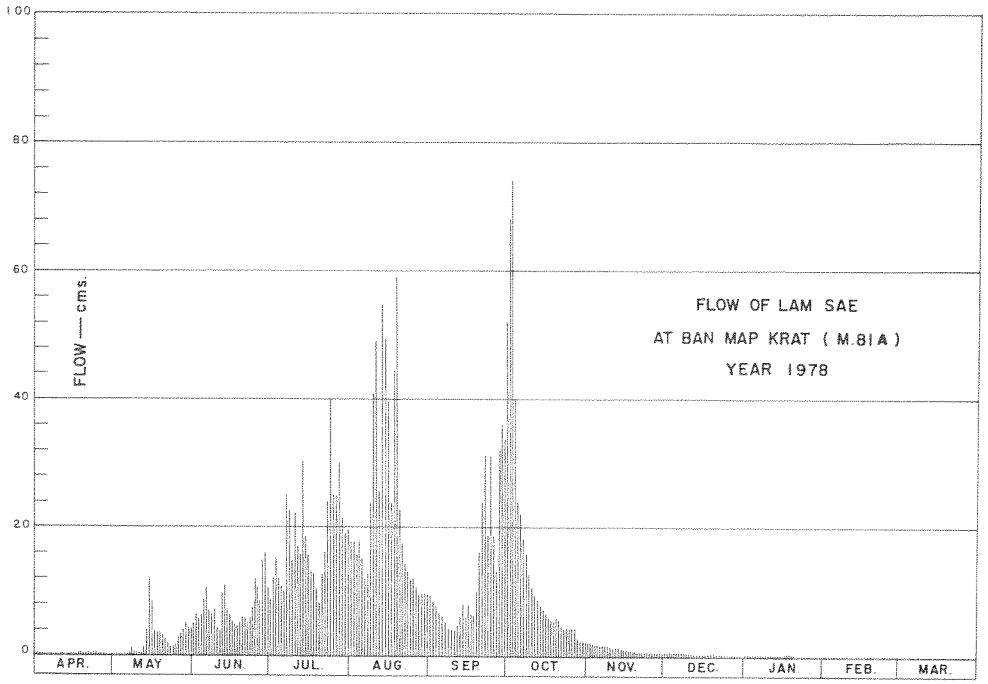
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 159 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	210.41	210.40	211.45	211.92	212.56	211.96	214.26	211.01	210.58	210.41	210.21	210.13	
2	210.42	210.42	211.65	212.21	212.57	211.90	214.64	210.98	210.60	210.41	210.31	210.19	
3	210.29	210.41	211.54	212.35	212.42	211.87	213.84	210.93	210.61	210.41	210.35	210.21	
4	210.26	210.39	211.64	212.20	212.58	211.77	213.26	210.90	210.61	210.41	210.36	210.24	
5	210.28	210.38	211.91	212.05	212.40	211.68	212.90	210.89	210.60	210.40	210.36	210.26	
6	210.31	210.33	212.04	211.99	212.24	211.59	212.78	210.89	210.58	210.39	210.36	210.28	
7	210.35	210.48	211.74	212.96	212.20	211.51	212.59	210.91	210.58	210.39	210.36	210.27	
8	210.36	210.82	211.63	212.82	212.27	211.39	212.42	210.93	210.57	210.39	210.34	210.27	
9	210.38	210.62	211.49	212.36	213.33	211.37	212.28	210.85	210.52	210.39	210.32	210.27	
10	210.40	210.54	211.40	212.79	213.87	211.36	212.15	210.82	210.51	210.37	210.31	210.26	
11	210.41	210.49	211.31	212.56	213.22	211.32	212.04	210.80	210.50	210.38	210.37	210.17	
12	210.44	210.53	212.00	212.43	212.99	211.44	211.96	210.81	210.50	210.40	210.37	209.99	
13	210.43	210.83	212.05	213.19	214.07	211.66	211.88	210.85	210.51	210.43	210.37	209.99	
14	210.43	211.33	211.74	212.69	213.96	211.85	211.80	210.79	210.52	210.45	210.38	209.98	
15	210.44	212.19	211.59	212.35	213.53	211.59	211.73	210.75	210.53	210.45	210.40	209.97	
16	210.49	211.72	211.49	212.25	213.14	211.84	211.66	210.72	210.53	210.49	210.41	209.97	
17	210.48	211.31	211.43	212.22	212.87	211.66	211.60	210.70	210.53	210.54	210.41	209.97	
18	210.48	211.29	211.41	212.05	214.19	211.62	211.54	210.68	210.53	210.52	210.41	209.96	
19	210.47	211.29	211.48	211.92	213.43	211.99	211.51	210.68	210.52	210.49	210.41	209.96	
20	210.49	211.26	211.59	211.84	212.86	212.43	211.55	210.65	210.51	210.45	210.30	209.96	
21	210.53	211.09	211.54	212.25	212.61	212.74	211.53	210.62	210.51	210.45	210.29	209.95	
22	210.51	210.95	211.45	212.50	212.40	213.23	211.41	210.61	210.51	210.44	210.31	209.95	
23	210.51	210.79	211.56	212.93	212.31	212.60	211.37	210.60	210.47	210.42	210.30	209.95	
24	210.51	210.83	211.81	213.59	212.21	213.24	211.36	210.58	210.43	210.39	210.13	209.94	
25	210.51	210.84	212.15	212.93	212.19	212.72	211.39	210.59	210.42	210.35	210.09	209.93	
26	210.50	211.11	212.01	212.94	212.10	212.43	211.38	210.62	210.42	210.30	210.06	209.91	
27	210.47	211.24	211.85	213.18	212.01	212.27	211.39	210.61	210.44	210.25	210.05	209.89	
28	210.44	211.37	212.35	212.78	211.92	213.29	211.18	210.59	210.45	210.21	210.12	209.88	
29	210.41	211.47	212.46	212.72	211.99	213.45	211.11	210.59	210.44	210.19		209.87	
30	210.40	211.35	212.06	212.64	211.99	213.37	211.04	210.51	210.43	210.15		209.86	
31		211.35		212.70	211.89		211.01		210.41	210.12		209.84	
MEAN	210.43	210.95	211.73	212.53	212.72	212.10	212.02	210.75	210.51	210.38	210.30	210.04	
MAX	210.53	212.19	212.46	213.59	214.19	213.45	214.64	211.01	210.61	210.54	210.41	210.28	214.64
MIN	210.26	210.33	211.31	211.84	211.89	211.32	211.01	210.51	210.41	210.12	210.05	209.84	209.84

ANNUAL MAX MOMENTARY GAGE HEIGHT 214.85 M (MSL), AT 12.00 HOURS, ON AUG 18, 1978
ZERO GAGE AT BOTTOM ELEVATION 209.77 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 433 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.31	0.30	5.00	9.04	17.96	9.52	61.24	2.24	0.61	0.31	0.11	0.10	
2	0.33	0.33	6.60	12.54	18.12	8.80	74.44	2.12	0.65	0.31	0.21	0.10	
3	0.19	0.31	5.72	14.60	15.72	8.50	47.68	1.92	0.69	0.31	0.25	0.11	
4	0.16	0.29	6.52	12.40	18.28	7.56	31.78	1.80	0.69	0.31	0.26	0.14	
5	0.18	0.28	8.92	10.60	15.40	6.84	24.20	1.76	0.65	0.30	0.26	0.16	
6	0.21	0.23	10.48	9.88	12.96	6.12	21.92	1.76	0.61	0.29	0.26	0.18	
7	0.25	0.42	7.32	25.40	12.40	5.48	18.44	1.84	0.61	0.29	0.26	0.17	
8	0.26	1.48	6.44	22.68	13.38	4.52	15.72	1.92	0.59	0.29	0.24	0.17	
9	0.28	0.72	5.32	14.76	33.45	4.36	13.52	1.60	0.49	0.29	0.22	0.17	
10	0.30	0.53	4.60	22.11	48.64	4.28	12.16	1.48	0.47	0.27	0.21	0.16	
11	0.31	0.43	3.88	17.96	30.86	3.96	10.48	1.40	0.45	0.28	0.27	0.10	
12	0.36	0.51	10.00	15.88	26.00	4.92	9.52	1.44	0.45	0.30	0.27	0.09	
13	0.34	1.52	10.60	30.18	55.04	6.68	8.60	1.60	0.47	0.34	0.27	0.09	
14	0.34	4.04	7.32	20.22	51.52	8.30	7.80	1.36	0.49	0.37	0.28	0.09	
15	0.36	12.28	6.12	14.60	38.64	6.12	7.24	1.20	0.51	0.37	0.30	0.09	
16	0.43	7.16	5.32	13.10	29.08	8.20	6.68	1.08	0.51	0.43	0.31	0.09	
17	0.42	3.88	4.84	12.68	23.63	6.68	6.20	1.00	0.51	0.53	0.31	0.09	
18	0.42	3.74	4.68	10.60	58.88	6.36	5.72	0.93	0.51	0.49	0.31	0.09	
19	0.40	3.74	5.24	9.04	35.98	9.88	5.48	0.93	0.49	0.43	0.31	0.09	
20	0.43	3.56	6.12	8.20	23.44	15.88	5.80	0.82	0.47	0.37	0.20	0.09	
21	0.51	2.56	5.72	13.10	18.78	21.16	5.64	0.72	0.47	0.37	0.19	0.09	
22	0.47	2.00	5.00	17.00	15.40	31.09	4.68	0.69	0.47	0.36	0.21	0.09	
23	0.47	1.36	5.88	24.80	13.96	18.60	4.36	0.65	0.40	0.33	0.20	0.09	
24	0.47	1.52	7.90	40.32	12.54	31.32	4.28	0.61	0.34	0.29	0.10	0.09	
25	0.47	1.56	11.80	24.80	12.28	20.78	4.52	0.63	0.33	0.25	0.09	0.09	
26	0.45	2.66	10.12	25.00	11.20	15.88	4.44	0.72	0.33	0.20	0.09	0.09	
27	0.40	3.44	8.30	29.96	10.12	13.38	4.52	0.69	0.36	0.15	0.09	0.00	
28	0.36	4.36	14.60	21.92	9.04	32.47	3.08	0.63	0.37	0.11	0.10	0.00	
29	0.31	5.16	16.36	20.78	9.88	36.50	2.66	0.63	0.36	0.10		0.00	
30	0.30	4.20	10.72	19.32	9.88	34.45	2.36	0.47	0.34	0.10		0.00	
31		4.20		20.40	8.70		2.24		0.31	0.10		0.00	
TOTAL	10.49	78.77	227.44	563.87	711.16	398.59	437.40	36.64	15.00	9.24	6.18	2.91	2497.68 CMSDAY
MEAN	0.35	2.54	7.58	18.19	22.94	13.29	14.11	1.22	0.48	0.30	0.22	0.09	6.84 CMS
MAX	0.51	12.28	16.36	40.32	58.88	36.50	74.44	2.24	0.69	0.53	0.31	0.18	74.44 CMS
MIN	0.16	0.23	3.88	8.20	8.70	3.96	2.24	0.47	0.31	0.10	0.09	0.00	0.00 CMS
RUNOFF	0.906	6.806	19.651	48.718	61.444	34.438	37.791	3.166	1.296	0.798	0.534	0.251	215.800 MCM

MOMENTARY PEAK 82.30 CMS, AT 214.85 M (MSL), AT 12.00 HOURS, ON AUG 18, 1978

RUNOFF YIELD 15.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 190.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

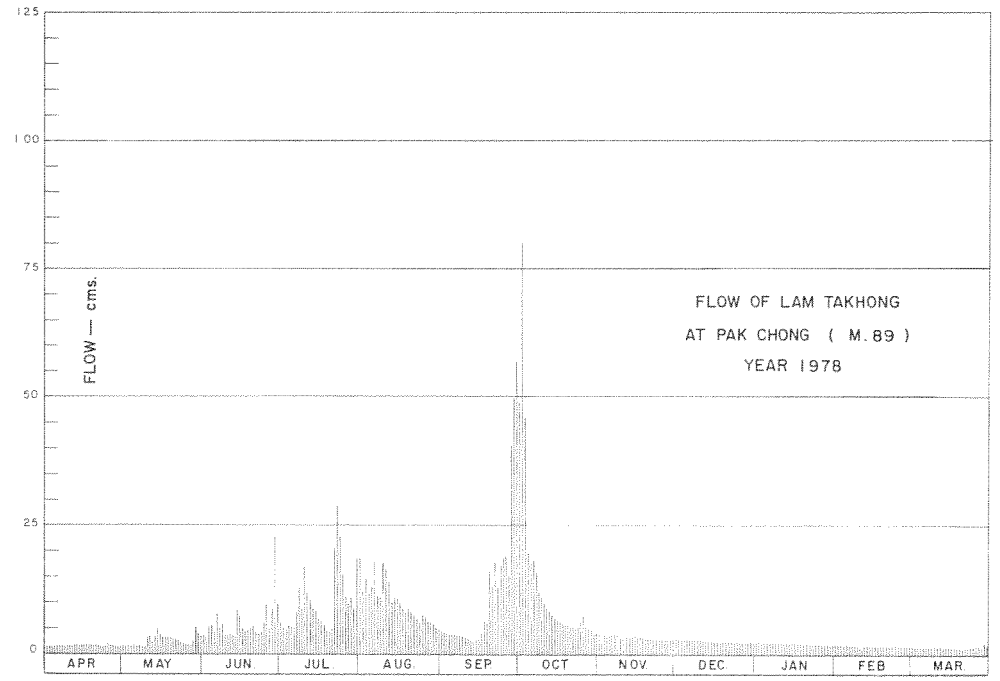
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.15	1.16	1.37	1.64	2.35	1.44	3.66	1.43	1.29	1.25	1.20	1.16	
2	1.15	1.16	1.32	1.52	1.94	1.42	4.74	1.40	1.28	1.25	1.20	1.16	
3	1.15	1.15	1.53	1.49	2.17	1.40	3.72	1.39	1.28	1.24	1.20	1.16	
4	1.16	1.17	1.55	1.55	1.99	1.39	2.68	1.37	1.28	1.24	1.20	1.16	
5	1.16	1.20	1.43	1.54	2.05	1.39	2.34	1.37	1.29	1.24	1.20	1.16	
6	1.16	1.17	1.71	1.50	2.31	1.38	2.27	1.38	1.29	1.24	1.20	1.16	
7	1.15	1.18	1.51	1.70	1.96	1.39	2.29	1.39	1.29	1.24	1.20	1.16	
8	1.15	1.17	1.55	2.05	1.89	1.36	2.18	1.40	1.29	1.24	1.19	1.16	
9	1.15	1.16	1.40	1.75	2.01	1.35	1.99	1.40	1.28	1.24	1.19	1.16	
10	1.16	1.35	1.34	2.23	2.28	1.35	1.90	1.38	1.27	1.24	1.19	1.16	
11	1.16	1.35	1.40	1.97	2.20	1.34	1.84	1.36	1.27	1.24	1.20	1.15	
12	1.16	1.24	1.38	1.90	1.95	1.32	1.80	1.35	1.27	1.24	1.19	1.15	
13	1.16	1.32	1.36	1.78	1.85	1.31	1.75	1.34	1.27	1.25	1.19	1.15	
14	1.17	1.52	1.75	1.75	1.90	1.33	1.70	1.35	1.27	1.25	1.18	1.15	
15	1.17	1.43	1.67	1.73	1.91	1.37	1.66	1.36	1.26	1.24	1.18	1.14	
16	1.17	1.32	1.50	1.63	1.86	1.35	1.63	1.35	1.26	1.24	1.18	1.14	
17	1.17	1.32	1.42	1.57	1.77	1.44	1.60	1.34	1.26	1.23	1.18	1.14	
18	1.17	1.34	1.47	1.52	1.71	1.58	1.58	1.34	1.26	1.23	1.18	1.13	
19	1.17	1.30	1.52	1.46	1.77	1.58	1.57	1.34	1.26	1.23	1.18	1.13	
20	1.19	1.30	1.56	1.42	1.73	2.22	1.57	1.33	1.26	1.22	1.18	1.14	
21	1.16	1.30	1.48	1.49	1.68	2.02	1.56	1.33	1.26	1.22	1.17	1.14	
22	1.15	1.27	1.39	2.46	1.65	2.29	1.54	1.32	1.26	1.22	1.17	1.13	
23	1.14	1.24	1.43	2.85	1.61	2.03	1.52	1.32	1.26	1.22	1.17	1.13	
24	1.17	1.21	1.46	2.51	1.59	2.24	1.51	1.31	1.26	1.22	1.17	1.14	
25	1.21	1.21	1.83	2.21	1.67	2.35	1.54	1.30	1.26	1.22	1.17	1.16	
26	1.19	1.20	1.61	1.97	1.66	2.37	1.68	1.30	1.25	1.22	1.16	1.17	
27	1.17	1.20	1.49	1.85	1.60	2.15	1.57	1.30	1.25	1.22	1.16	1.19	
28	1.16	1.28	1.78	1.90	1.57	3.15	1.51	1.30	1.25	1.22	1.16	1.20	
29	1.16	1.53	2.55	1.78	1.56	3.67	1.48	1.29	1.24	1.21		1.19	
30	1.17	1.40	1.83	1.73	1.51	3.96	1.45	1.29	1.25	1.20		1.19	
31		1.36		2.35	1.47		1.44		1.25	1.20		1.19	
MEAN	1.16	1.27	1.55	1.83	1.84	1.83	1.98	1.35	1.27	1.23	1.18	1.16	
MAX	1.21	1.53	2.55	2.85	2.35	3.96	4.74	1.43	1.29	1.25	1.20	1.20	4.74
MIN	1.14	1.15	1.32	1.42	1.47	1.31	1.44	1.29	1.24	1.20	1.16	1.13	1.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.17 M (A.D), AT 18.00 HOURS, ON OCT 2, 1978

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 6990 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	1.60	3.70	7.10	19.00	4.40	49.00	4.30	2.90	2.50	2.00	1.60	
2	1.50	1.60	3.20	5.30	11.60	4.20	80.20	4.00	2.80	2.50	2.00	1.60	
3	1.50	1.50	5.45	4.90	15.40	4.00	50.50	3.90	2.80	2.40	2.00	1.60	
4	1.60	1.70	5.75	5.75	12.35	3.90	25.60	3.70	2.80	2.40	2.00	1.60	
5	1.60	2.00	4.30	5.60	13.25	3.90	18.80	3.70	2.90	2.40	2.00	1.60	
6	1.60	1.70	8.15	5.00	18.20	3.80	17.40	3.80	2.90	2.40	2.00	1.60	
7	1.50	1.80	5.15	8.00	11.90	3.90	17.80	3.90	2.90	2.40	2.00	1.60	
8	1.50	1.70	5.75	13.25	10.85	3.60	15.60	4.00	2.90	2.40	1.90	1.60	
9	1.50	1.60	4.00	8.75	12.65	3.50	12.35	4.00	2.80	2.40	1.90	1.60	
10	1.60	3.50	3.40	16.60	17.60	3.50	11.00	3.80	2.70	2.40	1.90	1.60	
11	1.60	3.50	4.00	12.05	16.00	3.40	10.10	3.60	2.70	2.40	2.00	1.50	
12	1.60	2.40	3.80	11.00	11.75	3.20	9.50	3.50	2.70	2.40	1.90	1.50	
13	1.60	3.20	3.60	9.20	10.25	3.10	8.75	3.40	2.70	2.50	1.90	1.50	
14	1.70	5.30	8.75	8.75	11.00	3.30	8.00	3.50	2.70	2.50	1.80	1.50	
15	1.70	4.30	7.55	8.45	11.15	3.70	7.40	3.60	2.60	2.40	1.80	1.40	
16	1.70	3.20	5.00	6.95	10.40	3.50	6.95	3.50	2.60	2.40	1.80	1.40	
17	1.70	3.20	4.20	6.05	9.05	4.40	6.50	3.40	2.60	2.30	1.80	1.40	
18	1.70	3.40	4.70	5.30	8.15	6.20	6.20	3.40	2.60	2.30	1.80	1.30	
19	1.70	3.00	5.30	4.60	9.05	6.20	6.05	3.40	2.60	2.30	1.80	1.30	
20	1.90	3.00	5.90	4.20	8.45	16.40	6.05	3.30	2.60	2.20	1.80	1.40	
21	1.60	3.00	4.80	4.90	7.70	12.80	5.90	3.30	2.60	2.20	1.70	1.40	
22	1.50	2.70	3.90	21.20	7.25	17.80	5.60	3.20	2.60	2.20	1.70	1.30	
23	1.40	2.40	4.30	29.00	6.65	12.95	5.30	3.20	2.60	2.20	1.70	1.30	
24	1.70	2.10	4.60	22.20	6.35	16.80	5.15	3.10	2.60	2.20	1.70	1.40	
25	2.10	2.10	9.95	16.20	7.55	19.00	5.60	3.00	2.60	2.20	1.70	1.60	
26	1.90	2.00	6.65	12.05	7.40	19.40	7.70	3.00	2.50	2.20	1.60	1.70	
27	1.70	2.00	4.90	10.25	6.50	15.00	6.05	3.00	2.50	2.20	1.60	1.90	
28	1.60	2.80	9.20	11.00	6.05	36.25	5.15	3.00	2.50	2.20	1.60	2.00	
29	1.60	5.45	23.00	9.20	5.90	49.25	4.80	2.90	2.40	2.10		1.90	
30	1.70	4.00	9.95	8.45	5.15	56.80	4.50	2.90	2.50	2.00		1.90	
31		3.60		19.00	4.70		4.40		2.50	2.00		1.90	
TOTAL	49.10	85.35	182.90	320.25	319.25	348.15	433.90	104.30	82.70	71.60	51.40	48.50	2097.40 CMSDAY
MEAN	1.64	2.75	6.10	10.33	10.30	11.60	14.00	3.48	2.67	2.31	1.84	1.56	5.75 CMS
MAX	2.10	5.45	23.00	29.00	19.00	56.80	80.20	4.30	2.90	2.50	2.00	2.00	80.20 CMS
MIN	1.40	1.50	3.20	4.20	4.70	3.10	4.40	2.90	2.40	2.00	1.60	1.30	1.30 CMS
RUNOFF	4.242	7.374	15.803	27.670	27.583	30.080	37.489	9.012	7.145	6.186	4.441	4.190	181.215 MCM

MOMENTARY PEAK 93.10 CMS, AT 5.17 M (A.D), AT 18.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 0.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 AT BAN TAMUAN, TAMBON LALOM, AMPHOE KHU KHAN, 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.S.

LOCATION — ON RIGHT BANK ALONG MEASURING LINE.

ELEVATION — +8.051 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 126 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

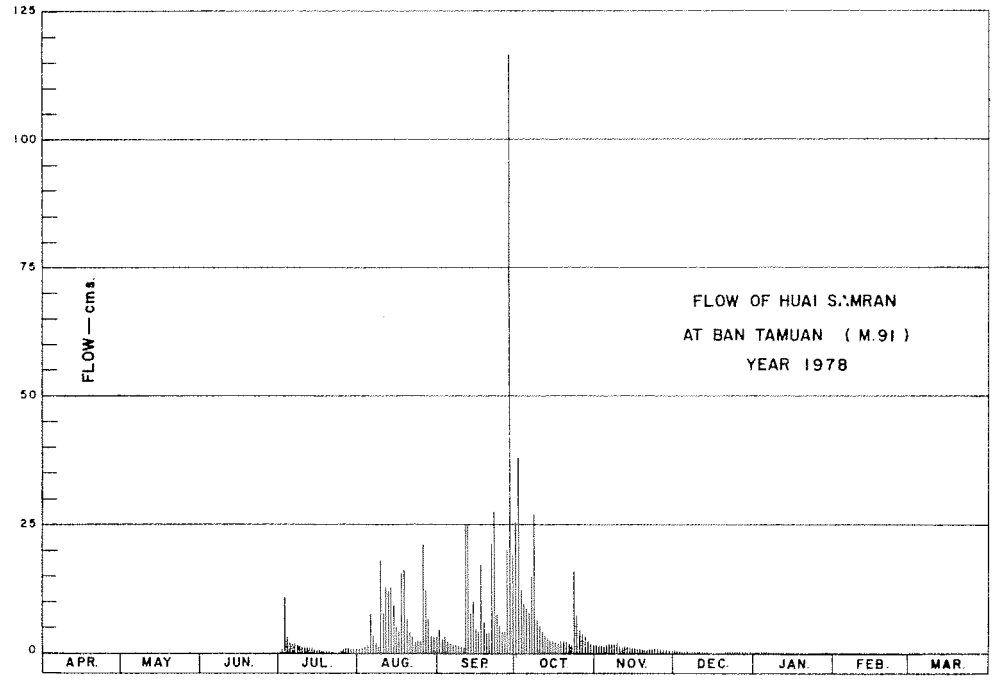
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.43	0.52	0.50	0.68	1.01	1.80	4.58	1.27	0.83	0.70	0.65	0.58	
2	0.43	0.53	0.49	0.91	1.04	1.54	3.69	1.22	0.81	0.71	0.65	0.57	
3	0.42	0.52	0.49	2.51	1.10	1.62	2.62	1.18	0.79	0.71	0.65	0.56	
4	0.41	0.52	0.48	1.66	1.17	1.43	2.36	1.18	0.79	0.71	0.65	0.56	
5	0.41	0.51	0.47	1.43	2.17	1.33	2.26	1.37	0.78	0.71	0.65	0.55	
6	0.40	0.51	0.46	1.29	1.63	1.26	2.20	1.33	0.76	0.71	0.64	0.54	
7	0.40	0.51	0.47	1.37	1.35	1.29	3.89	1.28	0.75	0.71	0.65	0.53	
8	0.40	0.51	0.47	1.28	1.21	1.23	2.45	1.42	0.75	0.70	0.65	0.54	
9	0.39	0.50	0.46	1.21	3.19	1.18	2.07	1.26	0.74	0.70	0.64	0.53	
10	0.38	0.50	0.46	1.16	2.22	1.15	1.87	1.19	0.74	0.70	0.65	0.52	
11	0.39	0.49	0.46	1.13	2.68	3.69	1.72	1.12	0.72	0.70	0.64	0.53	
12	0.39	0.51	0.46	1.15	2.62	3.73	1.63	1.25	0.71	0.70	0.64	0.48	
13	0.39	0.52	0.45	1.12	2.68	2.17	1.53	1.16	0.70	0.70	0.64	0.47	
14	0.39	0.52	0.45	1.00	2.44	2.43	1.47	1.06	0.68	0.69	0.63	0.46	
15	0.51	0.53	0.44	0.90	1.86	1.88	1.42	1.06	0.67	0.69	0.63	0.45	
16	0.51	0.53	0.43	0.94	1.77	1.71	1.36	1.04	0.66	0.69	0.63	0.44	
17	0.55	0.52	0.43	0.86	2.95	3.11	1.31	1.02	0.66	0.68	0.63	0.43	
18	0.55	0.52	0.45	0.83	3.01	1.95	1.42	1.01	0.65	0.68	0.63	0.43	
19	0.55	0.52	0.45	0.77	2.07	1.70	1.43	0.99	0.65	0.68	0.63	0.42	
20	0.55	0.52	0.48	0.73	1.82	1.70	1.40	0.97	0.66	0.68	0.63	0.42	
21	0.55	0.51	0.48	0.70	1.66	3.30	1.34	0.96	0.68	0.68	0.62	0.42	
22	0.55	0.50	0.60	0.69	1.51	3.89	1.25	0.94	0.69	0.67	0.61	0.41	
23	0.55	0.49	0.61	0.70	1.43	2.32	3.03	1.08	0.69	0.66	0.60	0.40	
24	0.55	0.48	0.61	0.76	1.46	1.97	2.14	0.93	0.69	0.66	0.60	0.39	
25	0.55	0.52	0.62	0.88	1.41	1.77	1.89	0.90	0.68	0.66	0.60	0.38	
26	0.54	0.53	0.62	1.00	3.45	1.72	1.67	0.88	0.68	0.66	0.60	0.37	
27	0.54	0.53	0.62	1.03	2.45	2.68	1.66	0.87	0.68	0.66	0.59	0.36	
28	0.53	0.52	0.62	0.95	1.81	6.64	1.50	0.86	0.67	0.65	0.59	0.36	
29	0.53	0.52	0.62	0.92	1.58	4.18	1.39	0.86	0.67	0.65		0.36	
30	0.52	0.51	0.61	0.94	1.58	3.24	1.31	0.84	0.66	0.65		0.37	
31		0.51		0.94	1.58		1.30		0.68	0.65		0.38	
MEAN	0.48	0.51	0.51	1.05	1.93	2.32	1.97	1.08	0.71	0.68	0.63	0.46	
MAX	0.55	0.53	0.62	2.51	3.45	6.64	4.58	1.42	0.83	0.71	0.65	0.58	6.64
MIN	0.38	0.48	0.43	0.68	1.01	1.15	1.25	0.84	0.65	0.65	0.59	0.36	0.36

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.86 M (A.D), AT 7.00 HOURS, ON SEP 28, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.08	0.05	0.32	0.93	4.70	37.90	1.78	0.56	0.35	0.27	0.17	
2	0.01	0.09	0.04	0.72	1.02	3.00	24.66	1.58	0.52	0.36	0.27	0.15	
3	0.01	0.08	0.04	11.00	1.20	3.44	12.10	1.44	0.48	0.36	0.27	0.14	
4	0.00	0.08	0.04	3.72	1.41	2.45	9.50	1.44	0.48	0.36	0.27	0.14	
5	0.00	0.06	0.03	2.45	7.63	2.02	8.50	2.18	0.47	0.36	0.27	0.12	
6	0.00	0.06	0.03	1.86	3.51	1.74	7.90	2.02	0.44	0.36	0.26	0.11	
7	0.00	0.06	0.03	2.18	2.10	1.86	27.55	1.82	0.42	0.36	0.27	0.09	
8	0.00	0.06	0.03	1.82	1.54	1.62	10.40	2.40	0.42	0.35	0.27	0.11	
9	0.00	0.05	0.03	1.54	18.29	1.44	6.76	1.74	0.41	0.35	0.26	0.09	
10	0.00	0.05	0.03	1.38	8.10	1.35	5.19	1.47	0.41	0.35	0.27	0.08	
11	0.00	0.04	0.03	1.29	12.70	24.66	4.14	1.26	0.38	0.35	0.26	0.09	
12	0.00	0.06	0.03	1.35	12.10	25.22	3.51	1.70	0.36	0.35	0.26	0.04	
13	0.00	0.08	0.02	1.26	12.70	7.63	2.95	1.38	0.35	0.35	0.26	0.03	
14	0.00	0.08	0.02	0.90	10.30	10.20	2.65	1.08	0.32	0.33	0.24	0.03	
15	0.06	0.09	0.02	0.70	5.12	5.26	2.40	1.08	0.30	0.33	0.24	0.02	
16	0.06	0.09	0.01	0.78	4.49	4.07	2.14	1.02	0.29	0.33	0.24	0.02	
17	0.12	0.08	0.01	0.62	15.65	17.41	1.94	0.96	0.29	0.32	0.24	0.01	
18	0.12	0.08	0.02	0.56	16.31	5.80	2.40	0.93	0.27	0.32	0.24	0.01	
19	0.12	0.08	0.02	0.45	6.52	4.00	2.45	0.88	0.27	0.32	0.24	0.01	
20	0.12	0.08	0.04	0.39	4.84	4.00	2.30	0.84	0.29	0.32	0.24	0.01	
21	0.12	0.06	0.04	0.35	3.72	19.60	2.06	0.82	0.32	0.32	0.23	0.01	
22	0.12	0.05	0.20	0.33	2.85	27.55	1.70	0.78	0.33	0.30	0.21	0.00	
23	0.12	0.04	0.21	0.35	2.45	9.10	16.53	1.14	0.33	0.29	0.20	0.00	
24	0.12	0.04	0.21	0.44	2.60	5.96	7.36	0.76	0.33	0.29	0.20	0.00	
25	0.12	0.08	0.23	0.66	2.35	4.49	5.33	0.70	0.32	0.29	0.20	0.00	
26	0.11	0.09	0.23	0.90	21.45	4.14	3.79	0.66	0.32	0.29	0.20	0.00	
27	0.11	0.09	0.23	0.99	10.40	12.70	3.72	0.64	0.32	0.29	0.18	0.00	
28	0.09	0.08	0.23	0.80	4.77	116.30	2.80	0.62	0.30	0.27	0.18	0.00	
29	0.09	0.08	0.23	0.74	3.20	31.90	2.26	0.62	0.30	0.27		0.00	
30	0.08	0.06	0.21	0.78	3.20	18.88	1.94	0.58	0.29	0.27		0.00	
31		0.06		0.78	3.20		1.90		0.32	0.27		0.00	
TOTAL	1.71	2.16	2.59	42.41	206.65	382.49	226.73	36.32	11.21	10.03	6.74	1.48	930.52 CMSDAY
MEAN	0.06	0.07	0.09	1.37	6.67	12.75	7.31	1.21	0.36	0.32	0.24	0.05	2.55 CMS
MAX	0.12	0.09	0.23	11.00	21.45	116.30	37.90	2.40	0.56	0.36	0.27	0.17	116.30 CMS
MIN	0.00	0.04	0.01	0.32	0.93	1.35	1.70	0.58	0.27	0.27	0.18	0.00	0.00 CMS
RUNOFF	0.148	0.187	0.224	3.664	17.855	33.047	19.589	3.138	0.969	0.867	0.582	0.128	80.397 MCM

MOMENTARY PEAK 126.20 CMS, AT 6.86 M (A.D), AT 7.00 HOURS, ON SEP 28, 1978

RUNOFF YIELD 20.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1034.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — TABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.94 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 149 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

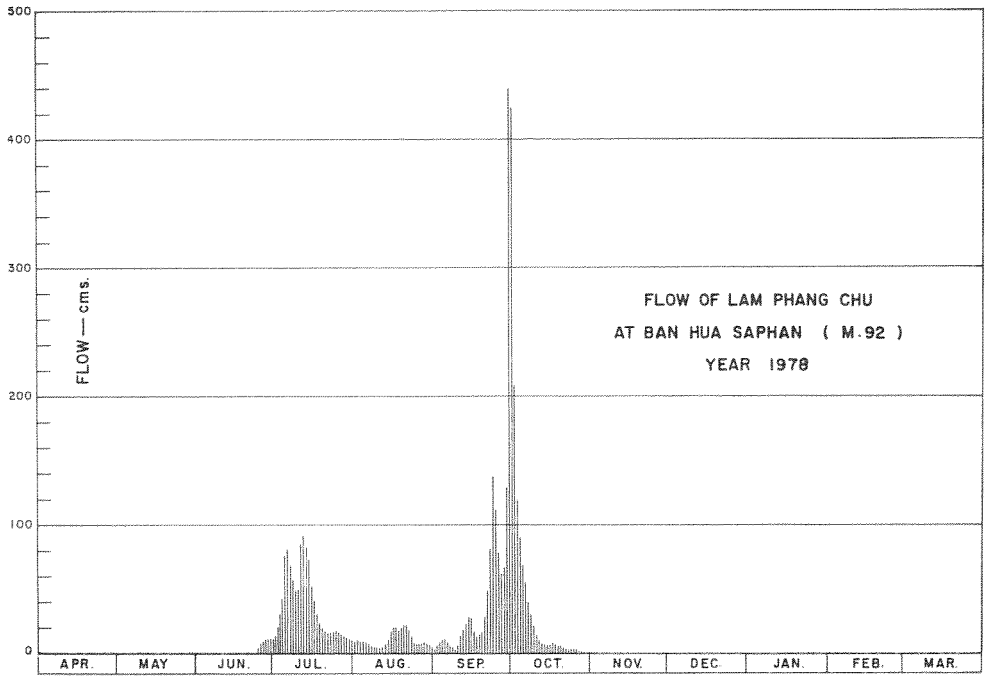
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.63	1.22	2.68	2.52	1.95	5.66	1.48	1.23	1.28	1.07	0.90	
2	0.71	0.63	1.21	2.97	2.56	2.21	5.22	1.47	1.23	1.27	1.07	0.91	
3	0.71	0.63	1.19	3.27	2.55	2.45	4.92	1.45	1.21	1.26	1.06	0.91	
4	0.71	0.63	1.17	3.88	2.50	2.57	4.71	1.44	1.22	1.25	1.06	0.90	
5	0.70	0.63	1.15	4.53	2.47	2.65	4.47	1.42	1.24	1.24	1.06	0.90	
6	0.70	0.63	1.14	4.57	2.44	2.44	4.22	1.44	1.23	1.23	1.06	0.89	
7	0.71	0.62	1.15	4.46	2.37	2.16	3.95	1.45	1.21	1.23	1.06	0.88	
8	0.70	0.62	1.14	4.23	2.16	1.99	3.63	1.46	1.20	1.22	1.05	0.88	
9	0.70	0.61	1.15	4.04	2.08	1.95	3.32	1.40	1.19	1.21	1.05	0.87	
10	0.69	0.60	1.14	4.04	2.06	2.37	2.94	1.34	1.17	1.21	1.04	0.86	
11	0.69	0.59	1.14	4.58	2.06	2.84	2.66	1.40	1.17	1.21	1.03	0.85	
12	0.68	0.58	1.13	4.66	2.14	3.01	2.53	1.42	1.17	1.20	1.03	0.84	
13	0.69	0.58	1.14	4.61	2.30	3.18	2.45	1.41	1.17	1.19	1.02	0.83	
14	0.68	0.69	1.14	4.56	2.59	3.37	2.18	1.39	1.17	1.19	1.02	0.83	
15	0.71	0.70	1.15	4.35	2.90	3.37	2.19	1.38	1.17	1.17	1.01	0.83	
16	0.70	0.71	1.17	4.05	3.12	3.07	2.28	1.36	1.15	1.16	0.99	0.82	
17	0.70	0.72	1.20	3.73	3.07	2.67	2.30	1.33	1.15	1.16	0.99	0.80	
18	0.69	0.80	1.21	3.35	2.97	2.81	2.31	1.32	1.15	1.15	0.98	0.81	
19	0.69	0.97	1.25	3.08	3.02	2.88	2.26	1.30	1.15	1.15	0.98	0.79	
20	0.69	1.10	1.30	2.97	3.13	2.95	2.23	1.28	1.16	1.14	0.97	0.79	
21	0.69	1.15	1.66	2.89	3.17	3.51	2.05	1.28	1.16	1.13	0.96	0.78	
22	0.68	1.16	1.54	2.85	3.03	4.14	1.90	1.26	1.39	1.13	0.96	0.78	
23	0.68	1.16	1.62	2.88	2.72	4.69	1.90	1.25	1.44	1.13	0.96	0.77	
24	0.67	1.16	1.65	2.94	2.37	4.91	1.90	1.24	1.38	1.12	0.95	0.77	
25	0.67	1.17	2.08	2.97	2.21	4.73	1.95	1.24	1.35	1.11	0.94	0.76	
26	0.66	1.16	2.43	2.91	2.27	4.50	1.85	1.24	1.33	1.10	0.94	0.75	
27	0.65	1.22	2.50	2.80	2.41	4.32	1.74	1.26	1.31	1.10	0.93	0.75	
28	0.65	1.24	2.60	2.73	2.50	4.40	1.59	1.27	1.31	1.09	0.93	0.74	
29	0.64	1.24	2.63	2.66	2.42	4.88	1.47	1.26	1.30	1.09		0.74	
30	0.63	1.24	2.64	2.61	2.28	5.69	1.45	1.24	1.29	1.08		0.73	
31		1.25		2.56	2.00		1.48		1.28	1.07		0.73	
MEAN	0.69	0.87	1.49	3.53	2.53	3.29	2.76	1.35	1.23	1.17	1.01	0.82	
MAX	0.72	1.25	2.64	4.66	3.17	5.69	5.66	1.48	1.44	1.28	1.07	0.91	5.69
MIN	0.63	0.58	1.13	2.56	2.00	1.95	1.45	1.24	1.15	1.07	0.93	0.73	0.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.77 M (A.D), AT 6.00 HOURS, ON OCT 1, 1978

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 1094 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.22	12.60	9.80	3.85	423.00	0.74	0.23	0.28	0.07	0.00	
2	0.00	0.00	0.21	18.40	10.40	6.30	225.40	0.71	0.23	0.27	0.07	0.00	
3	0.00	0.00	0.19	25.75	10.25	8.85	140.00	0.65	0.21	0.26	0.06	0.00	
4	0.00	0.00	0.17	43.40	9.50	10.55	98.80	0.62	0.22	0.25	0.06	0.00	
5	0.00	0.00	0.15	78.70	9.11	12.00	73.60	0.56	0.24	0.24	0.06	0.00	
6	0.00	0.00	0.14	82.30	8.72	8.72	57.60	0.62	0.23	0.23	0.06	0.00	
7	0.00	0.00	0.15	72.80	7.90	5.80	45.75	0.65	0.21	0.23	0.06	0.00	
8	0.00	0.00	0.14	58.15	5.80	4.21	35.90	0.68	0.20	0.22	0.05	0.00	
9	0.00	0.00	0.15	49.30	5.02	3.85	27.00	0.50	0.19	0.21	0.05	0.00	
10	0.00	0.00	0.14	49.30	4.84	7.90	17.80	0.38	0.17	0.21	0.04	0.00	
11	0.00	0.00	0.14	83.20	4.84	15.80	12.20	0.50	0.17	0.21	0.03	0.00	
12	0.00	0.00	0.13	92.20	5.60	19.25	9.95	0.56	0.17	0.20	0.03	0.00	
13	0.00	0.00	0.14	86.20	7.20	23.50	8.85	0.53	0.17	0.19	0.02	0.00	
14	0.00	0.00	0.14	81.40	10.85	28.25	6.00	0.48	0.17	0.19	0.02	0.00	
15	0.00	0.00	0.15	65.00	17.00	28.25	6.10	0.46	0.17	0.17	0.01	0.00	
16	0.00	0.00	0.17	49.75	22.00	20.75	7.00	0.42	0.15	0.16	0.00	0.00	
17	0.00	0.00	0.20	38.90	20.75	12.40	7.20	0.36	0.15	0.16	0.00	0.00	
18	0.00	0.00	0.21	27.75	18.40	15.20	7.30	0.34	0.15	0.15	0.00	0.00	
19	0.00	0.00	0.25	21.00	19.50	16.60	6.80	0.30	0.15	0.15	0.00	0.00	
20	0.00	0.10	0.30	18.40	22.25	18.00	6.50	0.28	0.16	0.14	0.00	0.00	
21	0.00	0.15	1.56	16.80	23.25	32.30	4.75	0.28	0.16	0.13	0.00	0.00	
22	0.00	0.16	0.96	16.00	19.75	53.80	3.40	0.26	0.48	0.13	0.00	0.00	
23	0.00	0.16	1.32	16.60	13.40	95.80	3.40	0.25	0.62	0.13	0.00	0.00	
24	0.00	0.16	1.50	17.80	7.90	137.50	3.40	0.24	0.46	0.12	0.00	0.00	
25	0.00	0.17	5.02	18.40	6.30	102.40	3.85	0.24	0.40	0.11	0.00	0.00	
26	0.00	0.16	8.59	17.20	6.90	76.00	2.95	0.24	0.36	0.10	0.00	0.00	
27	0.00	0.22	9.50	15.00	8.33	63.20	2.08	0.26	0.32	0.10	0.00	0.00	
28	0.00	0.24	11.00	13.60	9.50	68.00	1.16	0.27	0.32	0.09	0.00	0.00	
29	0.00	0.24	11.60	12.20	8.46	131.00	0.71	0.26	0.30	0.09		0.00	
30	0.00	0.24	11.80	11.20	7.00	439.50	0.65	0.24	0.29	0.08		0.00	
31		0.25		10.40	4.30		0.74		0.28	0.07		0.00	
TOTAL	0.00	2.25	66.34	1219.70	344.82	1469.53	1249.84	12.88	7.73	5.27	0.69	0.00	4379.04 CMSDAY
MEAN	0.00	0.07	2.21	39.35	11.12	48.98	40.32	0.43	0.25	0.17	0.02	0.00	12.00 CMS
MAX	0.00	0.25	11.80	92.20	23.25	439.50	423.00	0.74	0.62	0.28	0.07	0.00	439.50 CMS
MIN	0.00	0.00	0.13	10.40	4.30	3.85	0.65	0.24	0.15	0.07	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.194	5.732	105.382	29.792	126.967	107.986	1.113	0.668	0.455	0.060	0.000	378.349 MCM

MOMENTARY PEAK 487.00 CMS, AT 5.77 M (A.D), AT 6.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 10.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 445.16 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — 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 — 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 — OVERBANK FLOW STARTS AT ELEVATION +3.00 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 128 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

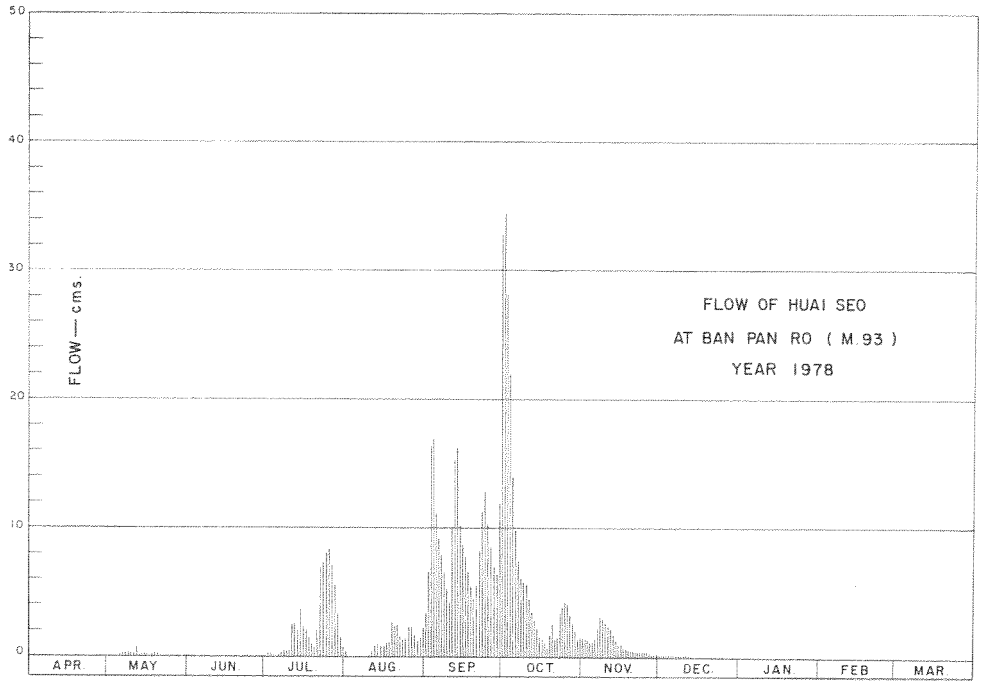
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.43	0.52	0.47	1.06	1.87	3.62	1.38	0.72	0.56	0.44	0.35	
2	0.42	0.42	0.51	0.68	0.79	2.61	3.63	1.41	0.72	0.55	0.44	0.34	
3	0.41	0.41	0.49	0.81	0.55	3.37	3.53	1.34	0.68	0.54	0.43	0.35	
4	0.40	0.40	0.50	0.64	0.56	3.39	3.42	1.24	0.63	0.55	0.43	0.35	
5	0.40	0.47	0.51	0.58	0.63	3.24	3.21	1.29	0.63	0.53	0.43	0.37	
6	0.40	0.73	0.53	0.57	0.59	2.99	2.96	1.41	0.67	0.52	0.43	0.35	
7	0.39	0.80	0.56	0.88	0.59	2.83	2.76	1.65	0.71	0.51	0.43	0.34	
8	0.39	0.81	0.53	0.90	0.58	2.71	2.51	1.80	0.70	0.50	0.43	0.33	
9	0.39	0.79	0.52	0.99	0.51	2.41	2.44	1.74	0.66	0.50	0.43	0.32	
10	0.39	0.78	0.56	0.89	0.60	2.12	2.41	1.65	0.72	0.48	0.43	0.30	
11	0.38	0.76	0.48	1.33	0.80	2.46	2.26	1.60	0.72	0.48	0.43	0.30	
12	0.38	0.88	0.47	1.64	1.13	3.33	2.02	1.57	0.71	0.47	0.41	0.29	
13	0.37	0.61	0.50	1.69	1.28	3.36	1.75	1.44	0.62	0.46	0.41	0.28	
14	0.36	0.68	0.50	1.54	1.20	3.18	1.68	1.32	0.60	0.45	0.40	0.28	
15	0.36	0.71	0.52	1.96	1.17	2.97	1.44	1.20	0.60	0.48	0.39	0.27	
16	0.35	0.58	0.50	1.65	1.17	2.80	1.39	1.25	0.57	0.48	0.39	0.26	
17	0.35	0.61	0.51	1.60	1.30	2.69	1.30	1.14	0.56	0.48	0.39	0.26	
18	0.35	0.78	0.52	1.42	1.28	2.47	1.05	1.09	0.58	0.48	0.36	0.26	
19	0.51	0.75	0.49	1.22	1.69	2.32	1.41	1.03	0.57	0.46	0.36	0.25	
20	0.52	0.72	0.48	1.12	1.61	2.15	1.65	1.02	0.60	0.50	0.37	0.24	
21	0.51	0.56	0.47	1.28	1.65	2.46	1.37	0.95	0.61	0.49	0.38	0.24	
22	0.52	0.52	0.48	2.08	1.52	2.78	1.35	0.91	0.63	0.45	0.38	0.23	
23	0.48	0.52	0.49	2.63	1.32	3.13	1.88	0.94	0.62	0.46	0.37	0.22	
24	0.48	0.51	0.51	2.74	1.32	3.22	2.00	0.92	0.66	0.45	0.37	0.22	
25	0.47	0.56	0.51	2.78	1.50	3.13	2.08	0.97	0.62	0.45	0.37	0.22	
26	0.48	0.54	0.51	2.82	1.62	2.95	2.04	0.93	0.61	0.45	0.36	0.22	
27	0.48	0.52	0.51	2.70	1.61	2.70	1.81	0.85	0.64	0.45	0.35	0.21	
28	0.46	0.54	0.51	2.40	1.42	2.58	1.68	0.82	0.57	0.47	0.35	0.20	
29	0.45	0.52	0.49	1.94	1.33	2.51	1.48	0.75	0.60	0.45		0.20	
30	0.44	0.51	0.49	1.43	1.42	2.87	1.40	0.73	0.65	0.44		0.19	
31		0.50		1.20	1.55		1.42		0.65	0.44		0.19	
MEAN	0.42	0.61	0.51	1.50	1.14	2.79	2.10	1.21	0.64	0.48	0.40	0.27	
MAX	0.52	0.88	0.56	2.82	1.69	3.39	3.63	1.80	0.72	0.56	0.44	0.37	3.63
MIN	0.35	0.40	0.47	0.47	0.51	1.87	1.05	0.73	0.56	0.44	0.35	0.19	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.65 M (A.D), AT 11.00 HOURS, ON OCT 1, 1978

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 329 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0 01	0.01	0.04	0.02	0.64	3.38	32.60	1.44	0.17	0.06	0.01	0.00	
2	0.01	0.01	0.03	0.14	0.24	6.86	34.40	1.54	0.17	0.05	0.01	0.00	
3	0.00	0.00	0.03	0.26	0.05	16.44	24.24	1.32	0.14	0.05	0.01	0.00	
4	0.00	0.00	0.03	0.11	0.06	17.08	18.36	1.02	0.10	0.05	0.01	0.00	
5	0.00	0.02	0.03	0.07	0.10	13.12	12.58	1.17	0.10	0.04	0.01	0.00	
6	0.00	0.18	0.04	0.06	0.07	9.72	9.48	1.54	0.13	0.04	0.01	0.00	
7	0.00	0.25	0.06	0.37	0.07	8.44	7.88	2.50	0.16	0.03	0.01	0.00	
8	0.00	0.26	0.04	0.40	0.07	7.48	6.26	3.10	0.15	0.03	0.01	0.00	
9	0.00	0.24	0.04	0.53	0.03	5.75	5.90	2.86	0.12	0.03	0.01	0.00	
10	0.00	0.23	0.06	0.39	0.08	4.38	5.75	2.50	0.17	0.02	0.01	0.00	
11	0.00	0.21	0.02	1.29	0.25	6.00	5.00	2.30	0.17	0.02	0.01	0.00	
12	0.00	0.37	0.02	2.46	0.76	15.16	3.98	2.18	0.16	0.02	0.00	0.00	
13	0.00	0.09	0.03	2.66	1.14	16.12	2.90	1.66	0.09	0.02	0.00	0.00	
14	0.00	0.14	0.03	2.06	0.90	12.08	2.62	1.26	0.08	0.01	0.00	0.00	
15	0.00	0.16	0.04	3.74	0.84	9.56	1.66	0.90	0.08	0.02	0.00	0.00	
16	0.00	0.07	0.03	2.50	0.84	8.20	1.47	1.05	0.06	0.02	0.00	0.00	
17	0.00	0.09	0.03	2.30	1.20	7.34	1.20	0.78	0.06	0.02	0.00	0.00	
18	0.00	0.23	0.04	1.58	1.14	6.05	0.62	0.68	0.07	0.02	0.00	0.00	
19	0.03	0.20	0.03	0.96	2.66	5.30	1.54	0.60	0.06	0.02	0.00	0.00	
20	0.04	0.17	0.02	0.74	2.34	4.50	2.50	0.58	0.08	0.03	0.00	0.00	
21	0.03	0.06	0.02	1.14	2.50	6.00	1.41	0.47	0.09	0.03	0.00	0.00	
22	0.04	0.04	0.02	4.22	1.98	8.04	1.35	0.42	0.10	0.01	0.00	0.00	
23	0.02	0.04	0.03	6.98	1.26	11.28	3.42	0.46	0.09	0.02	0.00	0.00	
24	0.02	0.03	0.03	7.72	1.26	12.76	3.90	0.43	0.12	0.01	0.00	0.00	
25	0.02	0.06	0.03	8.04	1.90	11.28	4.22	0.50	0.09	0.01	0.00	0.00	
26	0.02	0.05	0.03	8.36	2.38	9.40	4.06	0.44	0.09	0.01	0.00	0.00	
27	0.02	0.04	0.03	7.40	2.34	7.40	3.14	0.32	0.11	0.01	0.00	0.00	
28	0.02	0.05	0.03	5.70	1.58	6.68	2.62	0.28	0.06	0.02	0.00	0.00	
29	0.01	0.04	0.03	3.66	1.29	6.26	1.82	0.20	0.08	0.01		0.00	
30	0.01	0.03	0.03	1.62	1.58	8.76	1.50	0.18	0.12	0.01		0.00	
31		0.03		0.90	2.10		1.58		0.12	0.01		0.00	
TOTAL	0.30	3.40	0.97	78.38	33.65	270.82	209.96	34.68	3.39	0.75	0.11	0.00	636.41 CMSDAY
MEAN	0.01	0.11	0.03	2.53	1.09	9.03	6.77	1.16	0.11	0.02	0.00	0.00	1.74 CMS
MAX	0.04	0.37	0.06	8.36	2.66	17.08	34.40	3.10	0.17	0.06	0.01	0.00	34.40 CMS
MIN	0.00	0.00	0.02	0.02	0.03	3.38	0.62	0.18	0.06	0.01	0.00	0.00	0.00 CMS
RUNOFF	0.026	0.294	0.084	6.772	2.907	23.399	18.141	2.996	0.293	0.065	0.010	0.000	54.986 MCM

MOMENTARY PEAK 38.00 CMS, AT 3.65 M (A.D), AT 11.00 HOURS, ON OCT 1, 1978

RUNOFF YIELD 5.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 115.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

- LOCATION — NEAR THE GAGE SITE.
- ELEVATION — +6.02 M. (A.D.)

GAGE READING FREQUENCY — 3-7 TIME DAILY READINGS AT 01.00, 06.00, 09.00, 12.00, 15.00, 18.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3-7 READINGS.

PERIOD OF 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 22 DISCHARGE MEASUREMENTS MADE IN 1964.

REMARKS — OVERBANK FLOW ON OCT 1-7, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

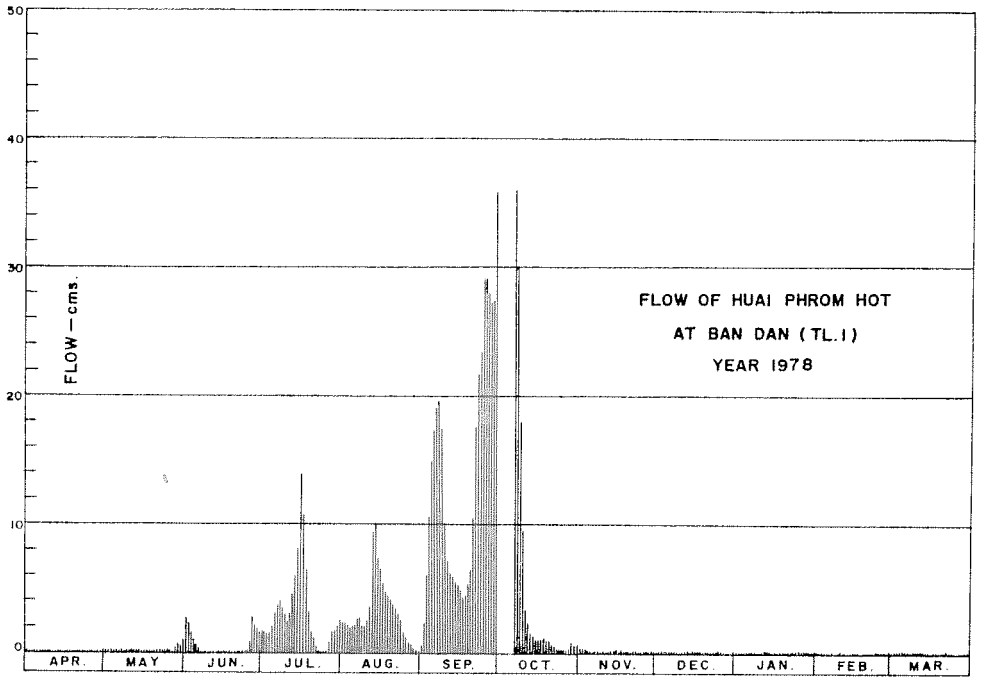
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.99	0.98	2.43	2.25	2.40	2.01	*******	1.80	0.95	0.95	0.91	0.87	
2	0.99	0.98	2.43	2.23	2.40	2.55	*******	1.80	0.95	0.95	0.91	0.87	
3	0.99	0.98	2.29	2.17	2.37	3.24	*******	1.79	1.00	0.95	0.91	0.87	
4	0.99	0.98	2.06	2.23	2.32	3.78	*******	1.76	1.00	0.95	0.99	0.87	
5	0.99	0.98	1.92	2.37	2.37	4.10	*******	1.67	1.00	0.95	0.99	0.87	
6	0.99	0.97	1.82	2.52	2.41	4.27	*******	1.60	1.00	0.95	0.99	0.87	
7	0.99	0.97	1.71	2.65	2.48	4.32	5.54	1.58	1.00	0.95	0.99	0.87	
8	0.99	0.97	1.60	2.69	2.48	4.10	5.06	1.53	1.00	0.95	0.97	0.87	
9	0.99	1.01	1.58	2.61	2.32	3.70	4.13	1.51	1.00	0.95	0.97	0.87	
10	0.99	1.01	1.53	2.49	2.38	3.23	3.15	1.50	1.00	0.95	0.97	0.87	
11	0.98	0.99	1.48	2.41	2.52	3.09	2.59	1.50	0.97	0.95	0.96	0.87	
12	0.98	1.01	1.40	2.59	2.83	2.98	2.27	1.47	0.97	0.95	0.96	0.88	
13	0.98	1.07	1.33	2.81	3.37	2.94	2.20	1.46	0.97	0.95	0.96	0.88	
14	0.98	1.06	1.23	3.02	3.44	2.90	2.13	1.43	0.95	0.95	0.96	0.88	
15	0.98	1.01	1.05	3.42	3.15	2.82	2.05	1.43	0.95	0.95	0.95	0.88	
16	0.98	1.04	1.00	3.79	2.97	2.80	2.06	1.41	0.95	0.95	0.94	0.88	
17	0.98	1.01	0.98	3.50	2.86	2.73	2.10	1.41	0.95	0.95	0.94	0.88	
18	0.98	1.15	1.00	2.92	2.78	2.76	2.11	1.36	0.93	0.95	0.93	0.88	
19	0.98	1.18	1.12	2.52	2.72	2.90	2.04	1.32	0.93	0.95	0.93	0.88	
20	0.98	1.14	1.37	2.28	2.68	3.12	1.98	1.30	0.93	0.93	0.92	0.87	
21	0.98	1.07	1.34	2.12	2.63	3.71	1.90	1.26	0.93	0.93	0.90	0.87	
22	0.98	0.98	1.34	1.91	2.58	4.45	1.84	1.07	0.93	0.93	0.90	0.87	
23	0.98	0.99	1.46	1.73	2.53	4.55	1.81	1.02	0.93	0.93	0.89	0.87	
24	0.98	1.10	1.53	1.64	2.42	4.77	1.80	1.25	0.93	0.93	0.88	0.87	
25	0.98	1.45	1.67	1.71	2.16	5.10	1.84	1.22	0.93	0.93	0.88	0.87	
26	0.98	1.49	2.00	1.82	2.04	5.09	1.83	1.21	0.93	0.91	0.87	0.87	
27	0.98	1.53	2.47	2.01	1.99	4.99	1.81	1.17	0.93	0.91	0.87	0.87	
28	0.98	1.87	2.34	2.28	1.92	4.95	1.94	1.05	0.93	0.91	0.87	0.87	
29	0.98	1.90	2.27	2.31	1.83	5.00	1.99	0.98	0.95	0.91		0.87	
30	0.98	1.85	2.17	2.37	1.78	5.54	1.89	0.95	0.95	0.91		0.87	
31		1.98		2.45	1.74		1.89		0.95	0.91		0.87	
MEAN	0.98	1.18	1.66	2.45	2.48	3.75	*******	1.39	0.96	0.94	0.93	0.87	
MAX	0.99	1.98	2.47	3.79	3.44	5.54	5.54	1.80	1.00	0.95	0.99	0.88	5.54
MIN	0.98	0.97	0.98	1.64	1.74	2.01	*******	0.95	0.93	0.91	0.87	0.87	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — M (A.D), AT HOURS, ON , 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	2.48	1.65	2.30	0.93	*******	0.30	0.00	0.00	0.00	0.00	
2	0.00	0.00	2.48	1.59	2.30	3.20	*******	0.30	0.00	0.00	0.00	0.00	
3	0.00	0.00	1.77	1.41	2.15	8.20	*******	0.27	0.00	0.00	0.00	0.00	
4	0.00	0.00	1.08	1.59	1.90	13.78	*******	0.18	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.66	2.15	2.15	17.30	*******	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.36	3.02	2.36	19.17	*******	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.03	3.80	2.78	19.72	35.92	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	4.04	2.78	17.30	28.68	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	3.56	1.90	12.90	17.63	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	2.84	2.20	8.10	7.40	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	2.36	3.02	6.92	3.44	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	3.44	5.01	6.06	1.71	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	4.87	9.50	5.78	1.50	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	6.36	10.20	5.50	1.29	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	10.00	7.40	4.94	1.05	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	13.89	5.99	4.80	1.08	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	10.80	5.22	4.31	1.20	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	5.64	4.66	4.52	1.23	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	3.02	4.24	5.50	1.02	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	1.74	3.98	7.16	0.84	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	1.26	3.68	13.01	0.60	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.63	3.38	21.15	0.42	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.09	3.08	22.30	0.33	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	2.42	24.94	0.30	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.03	1.38	29.20	0.42	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.90	0.36	1.02	29.07	0.39	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	2.72	0.93	0.87	27.77	0.33	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.51	2.00	1.74	0.66	27.25	0.72	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.60	1.71	1.85	0.39	27.90	0.87	0.00	0.00	0.00		0.00	
30	0.00	0.45	1.41	2.15	0.24	35.92	0.57	0.00	0.00	0.00		0.00	
31		0.84		2.60	0.12		0.57		0.00	0.00		0.00	
TOTAL	0.00	2.40	17.60	99.41	99.28	434.60	*******	1.05	0.00	0.00	0.00	0.00	******** CMSDAY
MEAN	0.00	0.08	0.59	3.21	3.20	14.49	*******	0.03	0.00	0.00	0.00	0.00	******* CMS
MAX	0.00	0.84	2.72	13.89	10.20	35.92	35.92	0.30	0.00	0.00	0.00	0.00	35.92 CMS
MIN	0.00	0.00	0.00	0.00	0.12	0.93	*******	0.00	0.00	0.00	0.00	0.00	******* CMS
RUNOFF	0.000	0.207	1.521	8.589	8.578	37.549	*******	0.091	0.000	0.000	0.000	0.000	******** MCM

MOMENTARY PEAK ********* CMS, AT ********* M (A.D), AT ********* HOURS, ON ********* , 1978

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

WATER YEAR 1978

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. (M.S.L.)

BENCH MARK — B.M.-H.S.

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 8 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

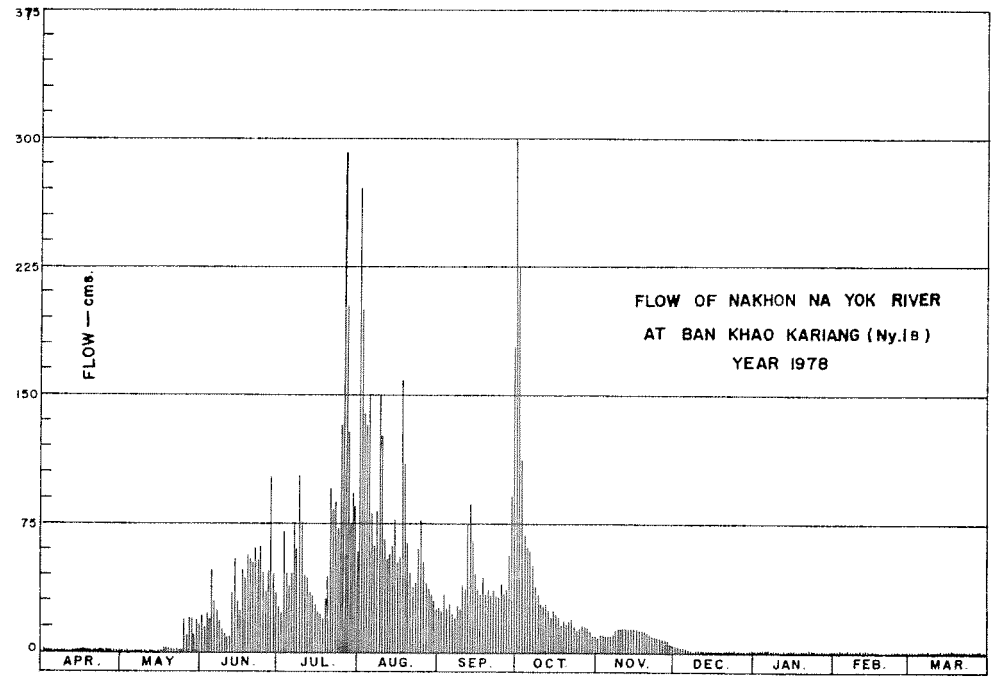
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.50	3.47	4.62	4.69	5.53	4.72	9.11	4.15	3.83	3.57	3.54	3.49	
2	3.50	3.47	4.40	4.70	8.79	4.74	7.87	4.19	3.80	3.57	3.53	3.49	
3	3.50	3.46	4.66	5.83	7.04	5.00	6.28	4.22	3.77	3.57	3.53	3.49	
4	3.49	3.46	4.56	5.28	6.90	4.76	5.69	4.22	3.75	3.57	3.53	3.49	
5	3.48	3.46	5.35	5.13	7.17	4.83	5.63	4.21	3.74	3.57	3.53	3.48	
6	3.48	3.46	4.79	5.29	6.13	4.68	5.58	4.25	3.73	3.57	3.52	3.48	
7	3.47	3.46	4.75	5.93	5.66	4.60	5.39	4.31	3.72	3.56	3.52	3.48	
8	3.47	3.46	4.46	5.63	6.04	4.81	5.11	4.38	3.69	3.56	3.52	3.48	
9	3.48	3.46	4.35	6.43	7.17	4.74	4.99	4.40	3.68	3.56	3.52	3.48	
10	3.49	3.46	4.22	5.78	6.83	5.15	4.86	4.40	3.67	3.56	3.52	3.48	
11	3.48	3.47	4.15	5.31	5.77	5.04	4.80	4.36	3.65	3.56	3.51	3.48	
12	3.47	3.56	4.17	5.30	5.48	6.01	4.77	4.33	3.64	3.56	3.51	3.48	
13	3.47	3.54	5.27	4.98	5.57	6.14	4.74	4.36	3.64	3.56	3.51	3.48	
14	3.47	3.54	5.50	4.95	5.74	5.70	4.61	4.38	3.64	3.56	3.50	3.47	
15	3.47	3.54	4.80	4.73	5.99	5.27	4.71	4.37	3.63	3.57	3.50	3.47	
16	3.48	3.56	4.61	4.69	5.45	5.05	4.59	4.34	3.63	3.60	3.50	3.47	
17	3.49	3.76	5.30	4.68	5.57	4.99	4.52	4.31	3.63	3.58	3.50	3.46	
18	3.48	3.80	5.24	4.54	7.28	5.24	4.48	4.30	3.63	3.58	3.50	3.46	
19	3.47	3.74	5.55	5.04	5.95	4.96	4.49	4.29	3.63	3.57	3.50	3.46	
20	3.47	3.65	5.50	5.49	5.53	5.08	4.45	4.25	3.63	3.57	3.50	3.46	
21	3.47	3.60	5.47	6.30	5.31	4.96	4.53	4.21	3.62	3.56	3.50	3.46	
22	3.47	3.57	5.65	6.10	5.10	5.05	4.44	4.19	3.62	3.55	3.50	3.45	
23	3.47	3.57	5.48	6.18	5.18	4.96	4.38	4.18	3.62	3.55	3.50	3.45	
24	3.50	3.58	5.69	5.87	5.74	4.93	4.35	4.16	3.61	3.55	3.50	3.45	
25	3.49	4.50	5.27	6.79	5.97	5.18	4.45	4.10	3.60	3.55	3.49	3.45	
26	3.48	4.21	5.05	7.46	5.43	4.97	4.44	4.06	3.60	3.55	3.49	3.45	
27	3.47	4.61	5.22	9.04	5.16	5.10	4.39	4.03	3.60	3.55	3.49	3.45	
28	3.47	4.57	6.40	6.57	5.07	5.67	4.35	3.98	3.58	3.55	3.49	3.44	
29	3.47	4.16	5.33	5.90	4.96	7.03	4.28	3.91	3.58	3.55		3.44	
30	3.47	4.53	4.97	6.23	4.82	7.66	4.23	3.86	3.58	3.55		3.43	
31		4.43		5.99	4.74		4.19		3.58	3.54		3.43	
MEAN	3.48	3.75	5.03	5.70	5.91	5.23	4.99	4.22	3.66	3.56	3.51	3.47	
MAX	3.50	4.61	6.40	9.04	8.79	7.66	9.11	4.40	3.83	3.60	3.54	3.49	9.11
MIN	3.47	3.46	4.15	4.54	4.74	4.60	4.19	3.86	3.58	3.54	3.49	3.43	3.43

ANNUAL MAX MOMENTARY GAGE HEIGHT — 9.90 M (MSL), AT 4.30 HOURS, ON JUL 27, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (MSL), RIVER BED — 2.45 M (MSL)

LEFT BANK ELEVATION — 9.65 M (MSL)

RIGHT BANK ELEVATION — 9.20 M (MSL), DRAINAGE AREA — 519 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	21.60	23.70	55.85	24.60	297.90	9.00	2.95	0.35	0.20	0.00	
2	0.00	0.00	15.00	24.00	270.70	25.20	199.40	9.80	2.50	0.35	0.15	0.00	
3	0.00	0.00	22.80	70.50	141.60	34.00	94.80	10.40	2.20	0.35	0.15	0.00	
4	0.00	0.00	19.80	45.20	132.50	25.80	63.50	10.40	2.00	0.35	0.15	0.00	
5	0.00	0.00	48.00	39.20	150.40	28.05	60.50	10.20	1.90	0.35	0.15	0.00	
6	0.00	0.00	26.70	45.60	85.80	23.40	58.10	11.00	1.80	0.35	0.10	0.00	
7	0.00	0.00	25.50	75.50	62.00	21.00	49.60	12.30	1.70	0.30	0.10	0.00	
8	0.00	0.00	16.80	60.50	81.00	27.35	38.40	14.40	1.40	0.30	0.10	0.00	
9	0.00	0.00	13.50	103.80	150.40	25.20	33.65	15.00	1.30	0.30	0.10	0.00	
10	0.00	0.00	10.40	68.00	127.95	40.00	29.10	15.00	1.20	0.30	0.10	0.00	
11	0.00	0.00	9.00	46.40	67.50	35.60	27.00	13.80	1.00	0.30	0.05	0.00	
12	0.00	0.30	9.40	46.00	53.60	79.50	26.10	12.90	0.90	0.30	0.05	0.00	
13	0.00	0.20	44.80	33.30	57.65	86.40	25.20	13.80	0.90	0.30	0.05	0.00	
14	0.00	0.20	54.50	32.25	66.00	64.00	21.30	14.40	0.90	0.30	0.00	0.00	
15	0.00	0.20	27.00	24.90	78.50	44.80	24.30	14.10	0.80	0.35	0.00	0.00	
16	0.00	0.30	21.30	23.70	52.25	36.00	20.70	13.20	0.80	0.50	0.00	0.00	
17	0.00	2.10	46.00	23.40	57.65	33.65	18.60	12.30	0.80	0.40	0.00	0.00	
18	0.00	2.50	43.60	19.20	158.10	43.60	17.40	12.00	0.80	0.40	0.00	0.00	
19	0.00	1.90	56.75	35.60	76.50	32.60	17.70	11.80	0.80	0.35	0.00	0.00	
20	0.00	1.00	54.50	54.05	55.85	37.20	16.50	11.00	0.80	0.35	0.00	0.00	
21	0.00	0.50	53.15	96.00	46.40	32.60	18.90	10.20	0.70	0.30	0.00	0.00	
22	0.00	0.35	61.50	84.00	38.00	36.00	16.20	9.80	0.70	0.25	0.00	0.00	
23	0.00	0.35	53.60	88.80	41.20	32.60	14.40	9.60	0.70	0.25	0.00	0.00	
24	0.00	0.40	63.50	72.50	66.00	31.55	13.50	9.20	0.60	0.25	0.00	0.00	
25	0.00	18.00	44.80	125.40	77.50	41.20	16.50	8.00	0.50	0.25	0.00	0.00	
26	0.00	10.20	36.00	170.70	51.35	32.95	16.20	7.20	0.50	0.25	0.00	0.00	
27	0.00	21.30	42.80	291.60	40.40	38.00	14.70	6.60	0.50	0.25	0.00	0.00	
28	0.00	20.10	102.00	112.20	36.80	62.50	13.50	5.60	0.40	0.25	0.00	0.00	
29	0.00	9.20	47.20	74.00	32.60	140.95	11.60	4.20	0.40	0.25		0.00	
30	0.00	18.90	32.95	91.80	27.70	184.70	10.60	3.40	0.40	0.25		0.00	
31		15.90		78.50	25.20		9.80		0.40	0.20		0.00	
TOTAL	0.00	123.90	1124.45	2180.30	2464.95	1401.00	1295.65	320.60	33.25	9.60	1.45	0.00	8955.14 CMSDAY
MEAN	0.00	4.00	37.48	70.33	79.51	46.70	41.80	10.69	1.07	0.31	0.05	0.00	24.53 CMS
MAX	0.00	21.30	102.00	291.60	270.70	184.70	297.90	15.00	2.95	0.50	0.20	0.00	297.90 CMS
MIN	0.00	0.00	9.00	19.20	25.20	21.00	9.80	3.40	0.40	0.20	0.00	0.00	0.00 CMS
RUNOFF	0.000	10.705	97.152	188.378	212.971	121.046	111.944	27.700	2.873	0.829	0.125	0.000	773.724 MCM

MOMENTARY PEAK 369.00 CMS, AT 9.90 M (MSL), AT 4.30 HOURS, ON JUL 27, 1978

RUNOFF YIELD 47.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 710.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

NAKHON NAYOK RIVER BASIN

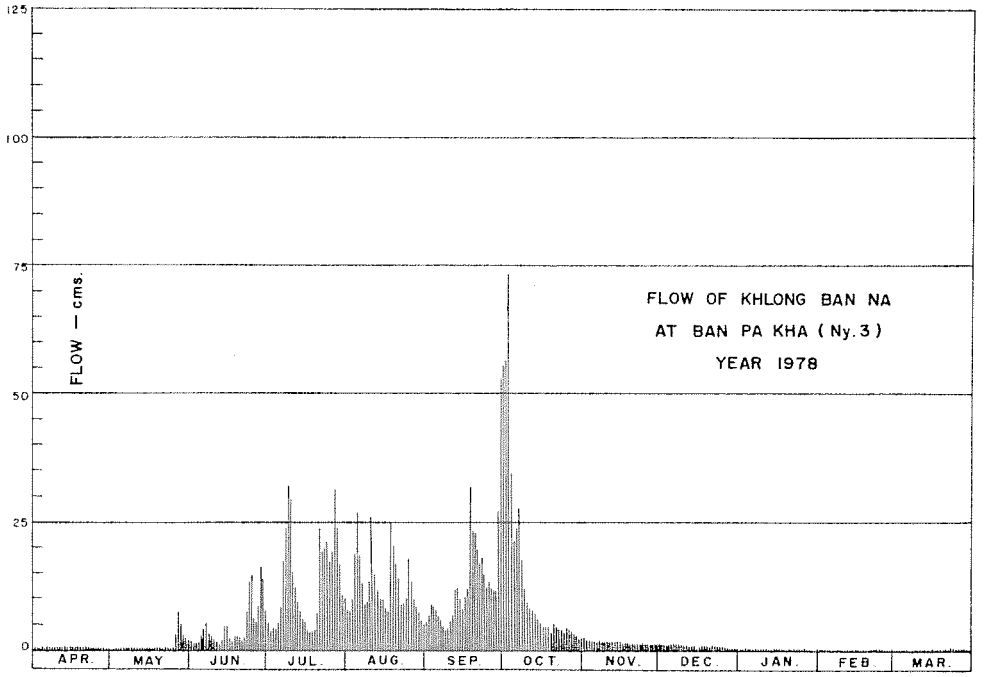
KHLONG BAN NA AT BAN PA KHA, NAKHON NAYOK (NY.3)

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 7 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.61	0.58	0.94	1.34	1.67	1.44	4.24	1.07	0.88	0.70	0.64	0.62	
2	0.61	0.58	0.85	1.25	1.67	1.57	4.82	1.04	0.87	0.69	0.63	0.61	
3	0.61	0.58	0.86	1.33	1.91	1.72	3.59	1.03	0.87	0.69	0.63	0.61	
4	0.60	0.58	0.87	1.31	2.74	1.65	2.78	1.01	0.86	0.68	0.64	0.61	
5	0.60	0.58	1.15	1.51	2.88	1.58	2.54	1.01	0.86	0.68	0.63	0.61	
6	0.60	0.57	1.32	1.77	2.34	1.50	2.93	0.99	0.85	0.68	0.63	0.62	
7	0.60	0.55	1.41	2.64	1.95	1.41	2.77	1.00	0.86	0.67	0.64	0.61	
8	0.60	0.55	1.15	2.81	1.75	1.33	2.22	0.99	0.87	0.68	0.63	0.58	
9	0.60	0.55	1.03	3.17	1.87	1.31	1.92	0.99	0.85	0.68	0.63	0.58	
10	0.60	0.55	0.98	2.99	2.83	1.42	1.74	0.97	0.82	0.67	0.63	0.58	
11	0.59	0.55	0.92	2.13	2.37	1.56	1.63	0.96	0.79	0.66	0.63	0.58	
12	0.62	0.56	0.92	1.86	2.00	1.99	1.62	0.97	0.79	0.68	0.63	0.58	
13	0.61	0.58	1.04	1.67	1.89	1.99	1.56	1.01	0.77	0.70	0.63	0.58	
14	0.61	0.59	1.38	1.49	1.85	1.76	1.48	0.99	0.75	0.64	0.61	0.58	
15	0.60	0.59	1.32	1.38	1.79	1.65	1.38	0.97	0.73	0.67	0.64	0.58	
16	0.60	0.59	1.08	1.29	1.66	1.89	1.32	0.96	0.75	0.69	0.63	0.57	
17	0.62	0.61	1.05	1.23	1.59	1.99	1.35	0.94	0.80	0.69	0.63	0.56	
18	0.60	0.64	1.15	1.23	2.78	3.17	1.26	0.92	0.81	0.68	0.62	0.56	
19	0.60	0.64	1.10	1.27	2.50	2.70	1.23	0.92	0.82	0.67	0.62	0.56	
20	0.60	0.62	1.05	1.41	2.32	2.67	1.40	0.93	0.82	0.66	0.62	0.54	
21	0.60	0.60	1.01	2.72	2.07	2.31	1.30	0.95	0.83	0.66	0.61	0.54	
22	0.60	0.60	1.16	2.44	1.82	2.37	1.25	0.92	0.84	0.66	0.61	0.54	
23	0.60	0.60	1.67	2.58	1.73	2.13	1.25	0.91	0.84	0.66	0.60	0.54	
24	0.60	0.59	2.10	2.46	1.91	1.98	1.20	0.91	0.81	0.65	0.61	0.53	
25	0.59	0.70	2.18	2.32	2.35	2.05	1.32	0.91	0.79	0.65	0.60	0.53	
26	0.59	1.09	1.54	2.72	2.10	1.94	1.24	0.90	0.74	0.65	0.60	0.53	
27	0.59	1.60	1.46	3.15	1.84	1.84	1.19	0.93	0.70	0.65	0.59	0.53	
28	0.59	1.41	2.24	2.75	1.68	2.02	1.15	0.92	0.70	0.64	0.63	0.51	
29	0.59	1.13	1.99	2.16	1.55	3.29	1.11	0.89	0.69	0.64		0.51	
30	0.58	1.05	1.57	1.92	1.44	4.20	1.08	0.88	0.70	0.65		0.51	
31		1.04		1.85	1.38		1.09		0.70	0.65		0.51	
MEAN	0.60	0.71	1.28	2.00	2.01	2.01	1.84	0.96	0.80	0.67	0.62	0.56	
MAX	0.62	1.60	2.24	3.17	2.88	4.20	4.82	1.07	0.88	0.70	0.64	0.62	4.82
MIN	0.58	0.55	0.85	1.23	1.38	1.31	1.08	0.88	0.69	0.64	0.59	0.51	0.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.08 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.25 M (A.D)
LEFT BANK ELEVATION 6.77 M (A.D)
RIGHT BANK ELEVATION 6.64 M (A.D), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.08	1.44	4.60	8.17	5.64	56.50	2.36	1.12	0.40	0.22	0.16	
2	0.13	0.08	1.00	3.80	8.17	7.07	73.30	2.12	1.08	0.37	0.19	0.13	
3	0.13	0.08	1.04	4.50	11.34	8.76	41.38	2.04	1.08	0.37	0.19	0.13	
4	0.10	0.08	1.08	4.30	24.18	7.95	24.86	1.88	1.04	0.34	0.22	0.13	
5	0.10	0.08	3.00	6.41	26.64	7.18	20.84	1.88	1.04	0.34	0.19	0.13	
6	0.10	0.07	4.40	9.41	17.64	6.30	27.60	1.74	1.00	0.34	0.19	0.16	
7	0.10	0.05	5.31	22.48	11.90	5.31	24.69	1.80	1.04	0.31	0.22	0.13	
8	0.10	0.05	3.00	25.38	9.15	4.50	15.80	1.74	1.08	0.34	0.19	0.08	
9	0.10	0.05	2.04	32.40	10.78	4.30	11.48	1.74	1.00	0.34	0.19	0.08	
10	0.10	0.05	1.68	28.80	25.74	5.42	9.02	1.62	0.88	0.31	0.19	0.08	
11	0.09	0.05	1.32	14.45	18.12	6.96	7.73	1.56	0.76	0.28	0.19	0.08	
12	0.16	0.06	1.32	10.64	12.60	12.46	7.62	1.62	0.76	0.34	0.19	0.08	
13	0.13	0.08	2.12	8.17	11.06	12.46	6.96	1.88	0.68	0.40	0.19	0.08	
14	0.13	0.09	5.00	6.19	10.50	9.28	6.08	1.74	0.60	0.22	0.13	0.08	
15	0.10	0.09	4.40	5.00	9.67	7.95	5.00	1.62	0.52	0.31	0.22	0.08	
16	0.10	0.09	2.44	4.12	8.06	11.06	4.40	1.56	0.60	0.37	0.19	0.07	
17	0.16	0.13	2.20	3.64	7.29	12.46	4.70	1.44	0.80	0.37	0.19	0.06	
18	0.10	0.22	3.00	3.64	24.86	32.40	3.88	1.32	0.84	0.34	0.16	0.06	
19	0.10	0.22	2.60	3.96	20.20	23.50	3.64	1.32	0.88	0.31	0.16	0.06	
20	0.10	0.16	2.20	5.31	17.32	22.99	5.20	1.38	0.88	0.28	0.16	0.04	
21	0.10	0.10	1.88	23.84	13.58	17.16	4.20	1.50	0.92	0.28	0.13	0.04	
22	0.10	0.10	3.08	19.24	10.08	18.12	3.80	1.32	0.96	0.28	0.13	0.04	
23	0.10	0.10	8.17	21.48	8.89	14.45	3.80	1.26	0.96	0.28	0.10	0.04	
24	0.10	0.09	14.00	19.56	11.34	12.32	3.40	1.26	0.84	0.25	0.13	0.03	
25	0.09	0.40	15.20	17.32	17.80	13.30	4.40	1.26	0.76	0.25	0.10	0.03	
26	0.09	2.52	6.74	23.84	14.00	11.76	3.72	1.20	0.56	0.25	0.10	0.03	
27	0.09	7.40	5.86	32.00	10.36	10.36	3.32	1.38	0.40	0.25	0.09	0.03	
28	0.09	5.31	16.10	24.35	8.28	12.88	3.00	1.32	0.40	0.22	0.19	0.01	
29	0.09	2.84	12.46	14.90	6.85	34.80	2.68	1.16	0.37	0.22		0.01	
30	0.08	2.20	7.07	11.48	5.64	55.50	2.44	1.12	0.40	0.25		0.01	
31		2.12		10.50	5.00		2.52		0.40	0.25		0.01	
TOTAL	3.19	25.04	141.15	425.71	405.21	414.60	397.96	47.14	24.65	9.46	4.74	2.18	1901.03 CMSDAY
MEAN	0.11	0.81	4.70	13.73	13.07	13.82	12.84	1.57	0.80	0.31	0.17	0.07	5.21 CMS
MAX	0.16	7.40	16.10	32.40	26.64	55.50	73.30	2.36	1.12	0.40	0.22	0.16	73.30 CMS
MIN	0.08	0.05	1.00	3.64	5.00	4.30	2.44	1.12	0.37	0.22	0.09	0.01	0.01 CMS
RUNOFF	0.276	2.163	12.195	36.781	35.010	35.821	34.384	4.073	2.130	0.817	0.410	0.188	164.249 MCM

MOMENTARY PEAK 81.10 CMS, AT 5.08 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 25.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 399.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

PRACHIN RIVER AT KABIN BURI, PRACHIN BURI (KGT.3)

LOCATION — LAT. 13°-59'-05" N., LONG. 101°-42'-32" E., ON LEFT BANK INFRONT OF 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

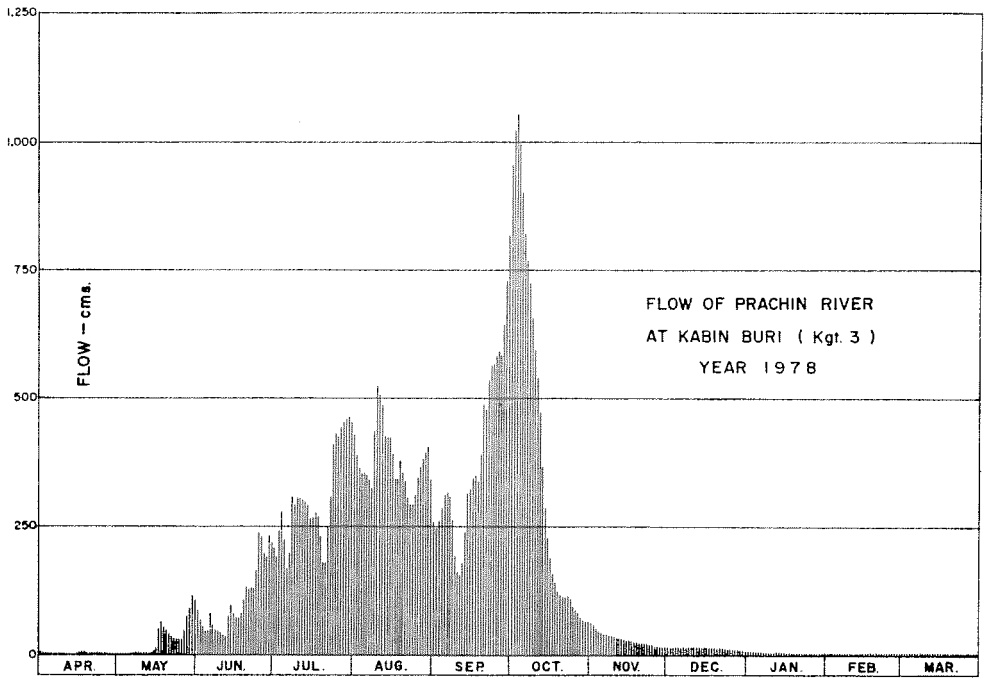
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +9.13 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.52	2.95	4.77	7.49	5.40	10.13	2.52	1.29	0.99	0.66	0.52	
2	0.62	0.51	2.64	4.55	7.10	5.27	10.43	2.38	1.27	0.96	0.65	0.52	
3	0.66	0.50	2.30	5.14	6.79	5.35	10.54	2.24	1.27	0.95	0.64	0.52	
4	0.61	0.49	2.12	5.69	6.65	5.82	10.38	2.16	1.27	0.93	0.64	0.51	
5	0.57	0.47	2.12	4.93	6.67	6.10	10.10	2.07	1.25	0.92	0.64	0.52	
6	0.54	0.49	2.83	4.20	6.61	6.16	9.86	2.04	1.28	0.90	0.64	0.51	
7	0.52	0.62	2.42	4.65	6.50	6.11	9.66	2.01	1.26	0.89	0.63	0.49	
8	0.51	0.57	2.14	6.06	6.29	5.51	9.46	1.97	1.25	0.86	0.63	0.48	
9	0.49	0.57	2.12	5.85	7.61	4.51	9.20	1.93	1.26	0.84	0.62	0.48	
10	0.48	0.56	2.05	6.04	8.45	4.08	8.92	1.91	1.28	0.82	0.62	0.48	
11	0.46	0.54	1.88	6.03	8.41	3.98	8.59	1.89	1.30	0.82	0.62	0.47	
12	0.46	0.57	1.82	5.97	8.06	4.34	7.91	1.84	1.28	0.85	0.61	0.46	
13	0.47	0.60	2.63	5.91	7.69	5.18	6.83	1.79	1.26	0.86	0.61	0.46	
14	0.46	0.65	3.11	5.86	7.63	6.10	5.80	1.75	1.24	0.86	0.60	0.45	
15	0.52	0.75	2.94	5.51	7.47	6.29	5.03	1.71	1.24	0.87	0.59	0.45	
16	0.51	1.15	2.66	5.51	7.12	6.54	4.48	1.68	1.24	0.84	0.58	0.44	
17	0.86	2.20	2.63	5.68	6.49	6.68	4.10	1.65	1.27	0.81	0.57	0.43	
18	0.84	2.52	2.79	5.60	6.54	6.47	3.78	1.60	1.25	0.79	0.57	0.43	
19	0.71	2.27	3.21	5.09	6.92	7.11	3.49	1.58	1.22	0.78	0.56	0.43	
20	0.64	2.10	3.65	4.37	6.65	8.11	3.39	1.54	1.21	0.76	0.58	0.42	
21	0.61	1.97	3.59	4.35	6.46	8.02	3.37	1.52	1.23	0.75	0.58	0.42	
22	0.58	1.86	3.62	5.31	5.96	8.53	3.32	1.50	1.19	0.74	0.57	0.41	
23	0.57	1.75	3.60	6.08	5.87	8.74	3.39	1.46	1.15	0.73	0.56	0.41	
24	0.73	1.63	4.11	7.31	5.88	8.75	3.18	1.44	1.13	0.72	0.55	0.41	
25	0.69	1.63	5.15	7.53	6.20	8.87	3.02	1.41	1.12	0.71	0.54	0.41	
26	0.64	1.90	5.01	7.47	6.67	8.92	2.95	1.38	1.11	0.70	0.54	0.41	
27	0.59	2.15	4.62	7.64	6.92	8.90	2.80	1.37	1.09	0.69	0.52	0.41	
28	0.56	2.72	4.49	7.74	7.02	9.18	2.70	1.34	1.06	0.68	0.52	0.41	
29	0.54	3.03	5.06	7.82	7.16	9.52	2.59	1.32	1.04	0.68		0.41	
30	0.53	3.36	4.91	7.87	7.27	9.85	2.54	1.30	1.03	0.67		0.41	
31		3.26		7.77	6.52		2.54		1.00	0.67		0.40	
MEAN	0.58	1.42	3.17	5.95	6.94	6.81	5.95	1.74	1.20	0.81	0.59	0.45	
MAX	0.86	3.36	5.15	7.87	8.45	9.85	10.54	2.52	1.30	0.99	0.66	0.52	10.54
MIN	0.46	0.47	1.82	4.20	5.87	3.98	2.54	1.30	1.00	0.67	0.52	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.55 M (MSL), AT 12.00 HOURS, ON OCT 3, 1978
ZERO GAGE AT BOTTOM ELEVATION -0.49 M (MSL), RIVER BED -6.60 M (MSL)
LEFT BANK ELEVATION 10.96 M (MSL)
RIGHT BANK ELEVATION 9.45 M (MSL), DRAINAGE AREA 7502 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.2	1.0	88.5	209.4	427.5	257.1	909.2	65.6	16.9	9.4	2.6	1.0	
2	2.0	0.9	71.6	193.5	391.8	247.1	1012.8	58.8	16.4	8.7	2.4	1.0	
3	2.6	0.8	55.0	237.1	364.9	253.2	1052.8	52.2	16.4	8.4	2.3	1.0	
4	1.8	0.7	46.9	279.4	353.4	289.4	995.0	48.6	16.4	8.0	2.3	0.9	
5	1.4	0.6	46.9	221.2	355.0	311.0	899.0	44.7	15.8	7.8	2.3	1.0	
6	1.2	0.7	81.7	169.0	350.3	315.6	822.7	43.5	16.7	7.3	2.3	0.9	
7	1.0	2.0	60.7	200.7	341.8	311.8	767.9	42.2	16.1	7.1	2.1	0.7	
8	0.9	1.4	47.8	307.9	325.6	265.6	713.7	40.6	15.8	6.5	2.1	0.6	
9	0.7	1.4	46.9	291.7	439.2	190.7	650.0	39.0	16.1	6.0	2.0	0.6	
10	0.6	1.3	43.9	306.4	524.6	160.8	590.8	38.2	16.7	5.6	2.0	0.6	
11	0.5	1.2	37.0	305.6	519.9	154.1	542.0	37.4	17.2	5.6	2.0	0.6	
12	0.5	1.4	34.8	301.0	482.9	178.7	468.3	35.5	16.7	6.2	1.8	0.5	
13	0.6	1.7	71.1	296.4	446.9	240.2	368.3	33.6	16.1	6.5	1.8	0.5	
14	0.5	2.4	97.9	292.5	441.1	311.0	287.9	32.1	15.6	6.5	1.7	0.4	
15	1.0	4.2	87.9	265.6	425.6	325.6	228.8	30.7	15.6	6.7	1.6	0.4	
16	0.9	13.2	72.7	265.6	393.6	344.9	188.6	29.6	15.6	6.0	1.5	0.3	
17	6.5	50.4	71.1	278.7	341.0	355.8	162.2	28.5	16.4	5.4	1.4	0.2	
18	6.0	65.6	79.5	272.5	344.9	339.5	140.7	26.7	15.8	5.0	1.4	0.2	
19	3.4	53.6	104.1	233.3	376.0	392.7	121.8	26.0	15.0	4.8	1.3	0.2	
20	2.3	46.0	132.0	180.8	353.4	487.8	115.5	24.7	14.8	4.4	1.5	0.2	
21	1.8	40.6	128.2	179.4	338.7	479.0	114.2	24.1	15.3	4.2	1.5	0.2	
22	1.5	36.3	130.1	250.2	300.2	534.3	111.1	23.4	14.2	4.0	1.4	0.1	
23	1.4	32.1	128.8	309.5	293.3	562.2	115.5	22.1	13.2	3.8	1.3	0.1	
24	3.8	27.8	162.9	410.5	294.1	563.7	102.3	21.5	12.7	3.6	1.2	0.1	
25	3.0	27.8	237.9	431.4	318.7	582.2	92.6	20.5	12.5	3.4	1.2	0.1	
26	2.3	37.8	227.3	425.6	355.0	590.8	88.5	19.6	12.2	3.2	1.2	0.1	
27	1.6	48.2	198.5	442.1	376.0	587.0	80.0	19.3	11.8	3.0	1.0	0.1	
28	1.3	75.8	189.3	451.8	384.8	645.4	74.7	18.4	11.0	2.9	1.0	0.1	
29	1.2	93.2	231.1	459.5	397.1	729.9	69.1	17.8	10.6	2.9		0.1	
30	1.1	113.6	219.7	464.4	406.9	819.9	66.6	17.2	10.3	2.7		0.1	
31		107.3		454.7	343.3		66.6		9.6	2.7		0.0	
TOTAL	54.6	891.0	3231.8	9387.4	11807.5	11827.0	12019.2	982.1	455.5	168.3	48.2	12.9	50885.4 CMSDAY
MEAN	1.8	28.7	107.7	302.8	380.9	394.2	387.7	32.7	14.7	5.4	1.7	0.4	139.4 CMS
MAX	6.5	113.6	237.9	464.4	524.6	819.9	1052.8	65.6	17.2	9.4	2.6	1.0	1052.8 CMS
MIN	0.5	0.6	34.8	169.0	293.3	154.1	66.6	17.2	9.6	2.7	1.0	0.0	0.0 CMS
RUNOFF	4.72	76.98	279.23	811.07	1020.17	1021.85	1038.46	84.85	39.36	14.54	4.16	1.11	4396.50 MCM

MOMENTARY PEAK 1056.50 CMS, AT 10.55 M (MSL), AT 12.00 HOURS, ON OCT 3, 1978

RUNOFF YIELD 18.58 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 140.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

PRACHIN RIVER AT SI MAHA PHOT, PRACHIN BURI (KGT.6)

LOCATION — LAT. 13°-58'-21" N., LONG. 101°-30'-57" E., ON LEFT BANK ABOUT 25 METERS SOUTH OF WAT PRATHUM, AMPHOE SI MAHA PHOT, PRACHIN BURI.

DRAINAGE AREA — 7,978 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — ON LEFT BANK ABOUT 10 METERS SOUTH OF WAT PRATHUM.

ELEVATION — +8.310 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

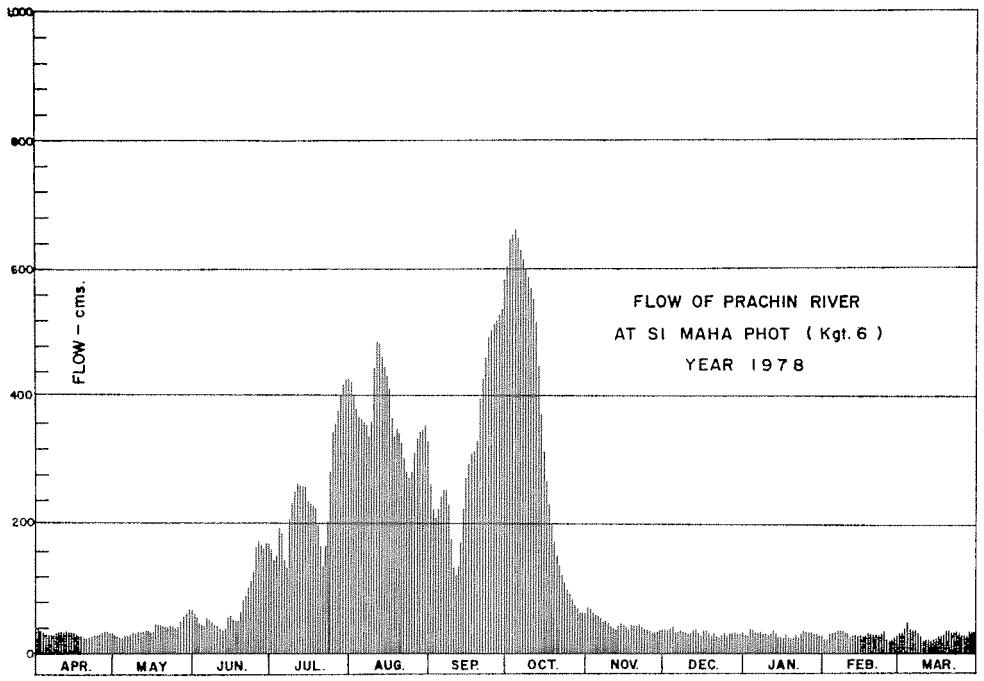
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.57	2.32	3.18	4.78	7.16	5.90	8.25	3.36	2.60	2.33	2.09	2.42	
2	2.48	2.28	3.01	4.55	7.03	5.53	8.46	3.34	2.53	2.34	2.09	2.38	
3	2.39	2.19	2.85	4.69	6.88	5.38	8.49	3.21	2.61	2.61	2.44	2.48	
4	2.29	2.14	2.78	5.20	6.78	5.52	8.53	3.15	2.69	2.57	2.45	2.87	
5	2.31	2.27	2.74	5.11	6.77	5.72	8.46	3.13	2.46	2.42	2.43	2.60	
6	2.28	2.25	3.00	4.60	6.72	5.81	8.37	3.06	2.48	2.43	2.55	2.58	
7	2.30	2.30	2.95	4.41	6.68	5.82	8.29	2.87	2.54	2.49	2.58	2.56	
8	2.41	2.43	2.84	5.35	6.54	5.60	8.22	2.92	2.48	2.42	2.50	2.46	
9	2.46	2.41	2.76	5.67	6.73	4.98	8.15	2.83	2.45	2.41	2.43	2.32	
10	2.48	2.44	2.73	5.80	7.30	4.41	8.05	2.69	2.38	2.37	2.38	2.06	
11	2.46	2.48	2.63	5.92	7.55	4.22	7.94	2.63	2.46	2.47	2.24	2.07	
12	2.47	2.48	2.58	5.91	7.54	4.45	7.74	2.62	2.58	2.52	2.30	2.09	
13	2.48	2.52	2.62	5.88	7.42	4.95	7.32	2.75	2.59	2.29	2.37	2.04	
14	2.44	2.52	3.05	5.88	7.32	5.69	6.80	2.82	2.43	2.20	2.30	2.08	
15	2.41	2.44	3.10	5.68	7.22	6.00	6.35	2.79	2.34	2.22	2.31	2.14	
16	2.36	2.48	2.98	5.60	7.09	6.18	5.95	2.73	2.53	2.21	2.25	2.23	
17	2.26	2.79	2.94	5.59	6.78	6.33	5.60	2.63	2.54	2.35	2.32	2.29	
18	2.26	2.79	2.96	5.54	6.55	6.36	5.27	2.79	2.47	2.18	2.41	2.34	
19	2.17	2.75	3.18	5.28	6.64	6.47	4.94	2.76	2.32	2.17	2.40	2.50	
20	2.06	2.74	3.58	4.78	6.58	6.97	4.66	2.78	2.38	2.18	2.36	2.50	
21	2.19	2.72	3.74	4.43	6.46	7.16	4.45	2.82	2.29	2.29	2.37	2.43	
22	2.22	2.68	3.93	4.85	6.22	7.35	4.22	2.71	2.21	2.23	2.33	2.45	
23	2.26	2.73	4.10	5.30	6.00	7.56	4.06	2.61	2.29	2.40	2.39	2.47	
24	2.29	2.69	4.31	6.09	6.00	7.63	3.87	2.60	2.39	2.49	2.50	2.37	
25	2.35	2.63	4.83	6.60	6.10	7.70	3.75	2.52	2.29	2.49	2.04	2.33	
26	2.43	2.76	4.98	6.72	6.34	7.72	3.60	2.43	2.36	2.43	1.96	2.25	
27	2.48	2.91	4.87	6.87	6.53	7.77	3.46	2.45	2.42	2.46	2.05	2.25	
28	2.45	3.08	4.78	7.02	6.60	7.81	3.35	2.45	2.44	2.40	2.22	2.48	
29	2.43	3.21	4.91	7.13	6.62	7.87	3.23	2.59	2.37	2.37		2.39	
30	2.42	3.31	4.90	7.19	6.68	8.12	3.23	2.60	2.39	2.30		2.45	
31		3.32		7.20	6.48		3.20		2.43	2.24		2.48	
MEAN	2.36	2.61	3.46	5.67	6.75	6.30	6.01	2.79	2.44	2.36	2.32	2.37	
MAX	2.57	3.32	4.98	7.20	7.55	8.12	8.53	3.36	2.69	2.61	2.58	2.87	8.53
MIN	2.06	2.14	2.58	4.41	6.00	4.22	3.20	2.43	2.21	2.17	1.96	2.04	1.96

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.53 M (A.D), AT 18.00 HOURS, ON OCT 4, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -1.59 M (A.D)

LEFT BANK ELEVATION — 8.82 M (A.D)

RIGHT BANK ELEVATION — 8.26 M (A.D), DRAINAGE AREA 7978 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	37.0	28.7	62.7	163.0	423.8	264.0	606.3	71.7	38.1	29.1	22.1	31.9	
2	33.9	27.5	55.0	145.6	404.3	226.8	645.9	70.5	35.6	29.4	22.1	30.7	
3	31.0	24.8	48.2	156.0	383.3	212.6	651.6	64.1	38.5	38.5	32.6	33.9	
4	27.8	23.5	45.4	196.5	369.8	225.9	659.2	61.3	41.7	37.0	32.9	49.1	
5	28.4	27.2	43.7	188.8	368.4	245.1	645.9	60.4	33.2	31.9	32.3	38.1	
6	27.5	26.6	54.6	149.2	361.7	254.5	628.8	57.2	33.9	32.3	36.3	37.4	
7	28.1	28.1	52.4	135.5	356.4	255.6	613.6	49.1	35.9	34.2	37.4	36.7	
8	31.6	32.3	47.8	209.7	338.5	233.5	600.7	51.2	33.9	31.9	34.5	33.2	
9	33.2	31.6	44.6	240.1	363.0	178.4	588.0	47.4	32.9	31.6	32.3	28.7	
10	33.9	32.6	43.3	253.5	445.5	135.5	570.2	41.7	30.7	30.3	30.7	21.4	
11	33.2	33.9	39.3	266.1	485.5	122.7	551.0	39.3	33.2	33.5	26.3	21.6	
12	33.5	33.9	37.4	265.0	483.9	138.4	516.6	38.9	37.4	35.2	28.1	22.1	
13	33.9	35.2	38.9	261.9	464.7	176.1	448.7	44.1	37.7	27.8	30.3	20.8	
14	32.6	35.2	56.8	261.9	448.7	242.0	372.5	47.0	32.3	25.1	28.1	21.9	
15	31.6	32.6	59.0	241.1	433.1	274.5	315.0	45.8	29.4	25.7	28.4	23.5	
16	30.0	33.9	53.7	233.5	413.0	294.7	269.2	43.3	35.6	25.4	26.6	26.0	
17	26.9	45.8	52.0	232.5	369.8	312.6	233.5	39.3	35.9	29.7	28.7	27.8	
18	26.9	45.8	52.9	227.8	339.7	316.2	202.5	45.8	33.5	24.6	31.6	29.4	
19	24.3	44.1	62.7	203.3	351.2	329.7	175.3	44.6	28.7	24.3	31.3	34.5	
20	21.4	43.7	83.2	163.0	343.5	395.8	153.8	45.4	30.7	24.6	30.0	34.5	
21	24.8	42.9	92.4	137.0	328.5	423.8	138.4	47.0	27.8	27.8	30.3	32.3	
22	25.7	41.3	103.9	168.3	299.4	453.5	122.7	42.5	25.4	26.0	29.1	32.9	
23	26.9	43.3	114.8	205.0	274.5	487.1	112.2	38.5	27.8	31.3	31.0	33.5	
24	27.8	41.7	128.7	284.3	274.5	498.4	100.2	38.1	31.0	34.2	34.5	30.3	
25	29.7	39.3	166.8	346.0	285.4	510.0	92.9	35.2	27.8	34.2	20.8	29.1	
26	32.3	44.6	178.4	361.7	313.8	513.3	84.2	32.3	30.0	32.3	18.8	26.6	
27	33.9	50.7	169.9	382.0	337.2	521.5	77.0	32.9	31.9	33.2	21.1	26.6	
28	32.9	58.1	163.0	402.9	346.0	528.2	71.1	32.9	32.6	31.3	25.7	33.9	
29	32.3	64.1	173.0	419.1	348.6	538.8	65.0	37.7	30.3	30.3		31.0	
30	31.9	68.8	172.2	428.5	356.4	582.6	65.0	38.1	31.0	28.1		32.9	
31		69.4		430.0	331.0		63.6		32.3	26.3		33.9	
TOTAL	904.9	1231.2	2496.7	7758.8	11443.1	9891.8	10440.6	1383.3	1016.7	937.1	813.9	946.2	49264.2 CMSDAY
MEAN	30.2	39.7	83.2	250.3	369.1	329.7	336.8	46.1	32.8	30.2	29.1	30.5	135.0 CMS
MAX	37.0	69.4	178.4	430.0	485.5	582.6	659.2	71.7	41.7	38.5	37.4	49.1	659.2 CMS
MIN	21.4	23.5	37.4	135.5	274.5	122.7	63.6	32.3	25.4	24.3	18.8	20.8	18.8 CMS
RUNOFF	78.18	106.38	215.71	670.36	988.68	854.65	902.07	119.52	87.84	80.97	70.32	81.75	4256.43 MCM

MOMENTARY PEAK 659.20 CMS, AT 8.53 M (A.D), AT 18.00 HOURS, ON OCT 4, 1978

RUNOFF YIELD 16.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

KHLONG PHRA SATHUNG AT BAN KHAO CHAKAN, PRACHIN BURI (KGT.9)

LOCATION — LAT. 13°-40'-10" N., LONG. 102°-04'-35" E., ON RIGHT BANK INFRONT OF WAT KHAO CHAKAN, BAN KHAO CHAKAN, AMPHOE 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.S.

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 271 DISCHARGE MEASUREMENTS MADE DURING 1969-1970.

REMARKS — ESTIMATE GAGE HEIGHT AND ANNUAL MAX MOMENTARY BY CORRELATION DURING SEPT 1-30, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

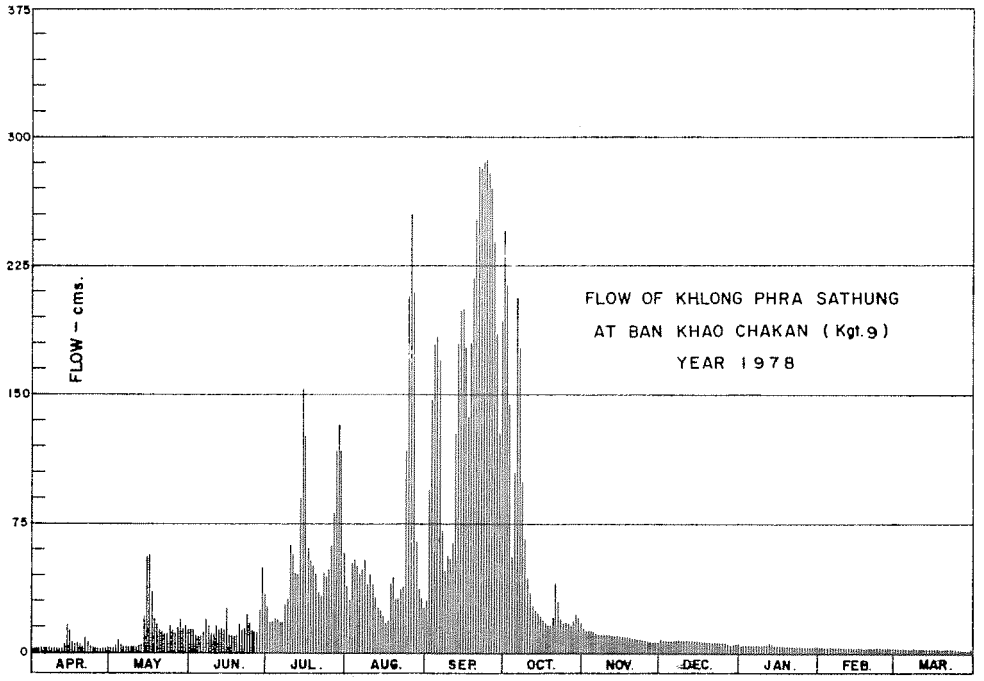
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.33	1.00	1.94	2.35	2.09	8.26	1.23	0.80	0.54	0.41	0.34	
2	0.29	0.34	1.00	1.44	2.04	4.41	7.31	1.16	0.78	0.53	0.41	0.34	
3	0.29	0.57	0.95	1.46	2.93	5.97	4.32	1.13	0.77	0.53	0.41	0.33	
4	0.30	0.71	0.89	1.56	3.02	6.81	3.13	1.09	0.77	0.52	0.41	0.33	
5	0.31	0.52	0.93	1.52	2.89	6.93	4.79	1.05	0.76	0.52	0.40	0.32	
6	0.31	0.50	1.10	1.44	2.68	6.60	7.48	1.04	0.75	0.51	0.40	0.32	
7	0.32	0.43	1.50	1.42	2.81	4.04	6.75	1.03	0.74	0.51	0.40	0.31	
8	0.33	0.48	1.20	1.91	3.04	2.72	4.24	1.02	0.74	0.50	0.40	0.31	
9	0.34	0.47	1.03	2.10	2.48	3.12	3.49	1.01	0.74	0.50	0.40	0.30	
10	0.35	0.43	1.00	3.36	2.73	3.05	2.58	0.98	0.74	0.51	0.39	0.30	
11	0.36	0.41	1.41	3.08	2.54	3.28	2.20	0.96	0.73	0.57	0.39	0.29	
12	0.38	0.55	1.16	2.68	2.17	5.26	1.97	0.94	0.73	0.58	0.39	0.29	
13	0.40	0.65	1.23	2.69	1.90	6.72	1.81	0.93	0.72	0.55	0.38	0.28	
14	1.33	1.68	1.21	4.82	1.76	7.30	1.67	0.94	0.71	0.53	0.38	0.28	
15	1.17	3.09	1.83	6.16	1.56	7.32	1.55	0.92	0.70	0.52	0.38	0.27	
16	0.77	3.15	1.25	4.88	1.42	6.65	1.45	0.89	0.69	0.51	0.37	0.27	
17	0.57	1.90	0.97	3.39	1.43	5.73	1.39	0.87	0.68	0.49	0.37	0.26	
18	0.60	1.43	0.92	2.90	2.45	7.00	1.32	0.86	0.67	0.48	0.37	0.26	
19	0.50	1.31	1.05	2.89	2.62	7.75	1.31	0.85	0.66	0.45	0.37	0.25	
20	0.47	1.16	1.37	2.74	2.07	8.41	1.63	0.83	0.66	0.44	0.36	0.25	
21	0.89	1.07	1.18	2.20	2.13	9.00	2.46	0.81	0.65	0.43	0.36	0.25	
22	0.67	1.01	1.24	2.13	2.35	8.98	1.96	0.79	0.64	0.42	0.36	0.24	
23	0.50	1.00	1.61	2.71	3.00	9.05	1.55	0.78	0.64	0.42	0.36	0.24	
24	0.43	1.32	1.35	2.58	5.63	9.07	1.41	0.77	0.63	0.42	0.36	0.24	
25	0.40	1.14	1.13	2.98	7.55	8.95	1.37	0.75	0.62	0.42	0.35	0.23	
26	0.38	1.04	1.07	3.44	8.48	8.72	1.35	0.74	0.60	0.43	0.35	0.23	
27	0.36	1.23	1.08	4.01	7.06	8.10	1.31	0.72	0.59	0.43	0.35	0.23	
28	0.35	1.52	1.74	5.23	3.40	6.71	1.42	0.72	0.58	0.43	0.35	0.25	
29	0.32	1.18	2.83	5.60	2.32	5.45	1.58	0.73	0.57	0.42		0.24	
30	0.33	1.28	2.18	4.71	2.03	7.03	1.60	0.76	0.56	0.42		0.27	
31		1.14		3.14	1.84		1.39		0.55	0.42		0.30	
MEAN	0.48	1.07	1.28	3.00	2.99	6.41	2.78	0.91	0.68	0.48	0.38	0.28	
MAX	1.33	3.15	2.83	6.16	8.48	9.07	8.26	1.23	0.80	0.58	0.41	0.34	9.07
MIN	0.28	0.33	0.89	1.42	1.42	2.09	1.31	0.72	0.55	0.42	0.35	0.23	0.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.07 M (A.D), AT HOURS, ON SEP 24, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.53 M (A.D)

LEFT BANK ELEVATION 10.82 M (A.D)

RIGHT BANK ELEVATION 9.94 M (A.D), DRAINAGE AREA 2279 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.84	2.30	10.60	27.88	37.20	31.18	243.60	14.28	7.80	4.48	3.10	2.40	
2	1.92	2.40	10.60	17.98	30.08	92.72	198.84	13.16	7.52	4.36	3.10	2.40	
3	1.92	4.84	9.90	18.38	51.25	145.86	89.84	12.68	7.38	4.36	3.10	2.30	
4	2.00	6.54	9.06	20.34	53.50	178.40	56.28	12.04	7.38	4.24	3.10	2.30	
5	2.10	4.24	9.62	19.55	50.25	183.20	104.88	11.40	7.24	4.24	3.00	2.20	
6	2.10	4.00	12.20	17.98	45.12	170.10	206.48	11.24	7.10	4.12	3.00	2.20	
7	2.20	3.30	19.16	17.59	48.25	81.20	176.00	11.08	6.96	4.12	3.00	2.10	
8	2.30	3.80	13.80	27.22	54.00	46.08	87.28	10.92	6.96	4.00	3.00	2.10	
9	2.40	3.70	11.08	31.40	40.32	56.02	65.73	10.76	6.96	4.00	3.00	2.00	
10	2.50	3.30	10.60	62.26	46.32	54.25	42.72	10.32	6.96	4.12	2.90	2.00	
11	2.60	3.10	17.40	55.00	41.76	60.18	33.60	10.04	6.82	4.84	2.90	1.92	
12	2.80	4.60	13.16	45.12	32.94	120.44	28.54	9.76	6.82	4.96	2.90	1.92	
13	3.00	5.80	14.28	45.36	27.00	174.80	25.24	9.62	6.68	4.60	2.80	1.84	
14	15.94	22.69	13.96	105.84	24.26	198.40	22.49	9.76	6.54	4.36	2.80	1.84	
15	13.32	55.25	25.63	153.08	20.34	199.28	20.14	9.48	6.40	4.24	2.80	1.76	
16	7.38	56.80	14.60	107.76	17.59	172.05	18.18	9.06	6.28	4.12	2.70	1.76	
17	4.84	27.00	10.18	63.04	17.79	136.97	17.02	8.78	6.16	3.90	2.70	1.68	
18	5.20	17.79	9.48	50.50	39.60	186.00	15.76	8.64	6.04	3.80	2.70	1.68	
19	4.00	15.58	11.40	50.25	43.68	219.00	15.58	8.50	5.92	3.50	2.70	1.60	
20	3.70	13.16	16.66	46.56	30.74	251.10	21.71	8.22	5.92	3.40	2.60	1.60	
21	9.06	11.72	13.48	33.60	32.06	282.20	39.84	7.94	5.80	3.30	2.60	1.60	
22	6.04	10.76	14.44	32.06	37.20	281.12	28.32	7.66	5.68	3.20	2.60	1.52	
23	4.00	10.60	21.32	45.84	53.00	284.90	20.14	7.52	5.68	3.20	2.60	1.52	
24	3.30	15.76	16.30	42.72	133.30	285.98	17.40	7.38	5.56	3.20	2.60	1.52	
25	3.00	12.84	12.68	52.50	209.70	279.50	16.66	7.10	5.44	3.20	2.50	1.44	
26	2.80	11.24	11.72	64.38	254.60	267.08	16.30	6.96	5.20	3.30	2.50	1.44	
27	2.60	14.28	11.88	80.30	188.40	235.80	15.58	6.68	5.08	3.30	2.50	1.44	
28	2.50	19.55	23.86	119.42	63.30	174.40	17.59	6.68	4.96	3.30	2.50	1.60	
29	2.20	13.48	48.75	132.20	36.48	126.95	20.73	6.82	4.84	3.20		1.52	
30	2.30	15.08	33.16	102.32	29.86	187.20	21.12	7.24	4.72	3.20		1.76	
31		12.84		56.54	25.82		17.02		4.60	3.20		2.00	
TOTAL	121.86	408.34	470.96	1744.97	1815.71	5162.35	1720.61	281.72	193.40	119.36	78.30	56.96	12174.53 CMSDAY
MEAN	4.06	13.17	15.70	56.29	58.57	172.08	55.50	9.39	6.24	3.85	2.80	1.84	33.35 CMS
MAX	15.94	56.80	48.75	153.08	254.60	285.98	243.60	14.28	7.80	4.96	3.10	2.40	285.98 CMS
MIN	1.84	2.30	9.06	17.59	17.59	31.18	15.58	6.68	4.60	3.20	2.50	1.44	1.44 CMS
RUNOFF	10.529	35.281	40.691	150.765	156.877	446.027	148.660	24.341	16.710	10.313	6.765	4.921	1051.879 MCM

MOMENTARY PEAK 285.98 CMS, AT 9.07 M (A.D), AT HOURS, ON SEP 24, 1978

RUNOFF YIELD 14.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 125.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

KHLONG PHRA SATHUNG AT BAN WANG KHIAN, PRACHIN BURI (KGT.10)

LOCATION — LAT. 13°-48'-29" N., LONG. 102°-03'-35" E., ON LEFT BANK NEAR SAHA CHAROEN 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.-H.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

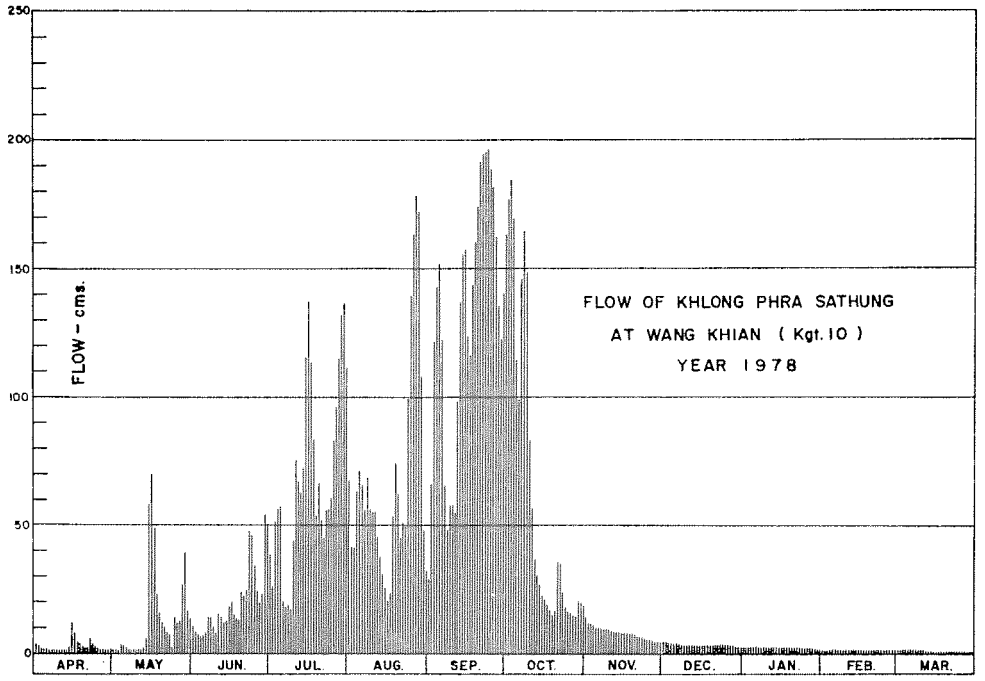
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +34.46 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 8 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.23	24.89	25.99	27.79	29.34	27.28	34.05	26.27	25.35	25.15	24.97	24.89	
2	25.07	24.87	25.78	27.10	28.02	29.37	34.65	26.13	25.35	25.14	24.97	24.89	
3	24.99	24.86	25.70	28.56	28.03	32.16	34.84	26.07	25.33	25.14	24.97	24.88	
4	24.94	25.27	25.59	28.81	29.22	33.14	34.25	26.00	25.33	25.13	24.97	24.88	
5	24.90	25.16	25.61	28.88	29.64	33.48	31.80	25.95	25.31	25.13	24.97	24.87	
6	24.88	25.05	25.74	26.67	29.37	32.18	31.10	25.91	25.30	25.13	24.96	24.88	
7	24.89	25.02	26.23	26.53	28.84	29.36	33.21	25.89	25.30	25.12	24.96	24.89	
8	24.87	24.95	26.29	26.65	29.48	28.41	34.06	25.88	25.29	25.09	24.96	24.89	
9	24.90	25.00	25.89	26.45	28.85	28.93	33.35	25.87	25.28	25.06	24.96	24.89	
10	24.90	24.97	25.66	28.18	28.80	28.94	30.26	25.84	25.27	25.06	24.95	24.89	
11	24.87	24.92	26.37	29.83	28.79	28.79	28.34	25.81	25.27	25.09	24.95	24.88	
12	24.87	24.91	26.23	29.42	28.27	31.02	27.76	25.79	25.26	25.14	24.94	24.87	
13	24.89	25.05	26.06	29.20	27.75	32.86	27.39	25.78	25.26	25.15	24.94	24.86	
14	24.99	25.42	26.18	29.66	27.43	33.65	27.14	25.77	25.26	25.11	24.94	24.86	
15	26.06	28.95	26.54	31.87	27.11	33.76	26.90	25.75	25.24	25.08	24.94	24.85	
16	25.67	29.56	26.68	32.87	26.76	32.24	26.74	25.72	25.22	25.07	24.94	24.84	
17	25.29	28.47	26.26	31.76	26.78	31.93	26.59	25.69	25.22	25.07	24.93	24.82	
18	25.23	26.88	26.24	30.27	28.70	33.13	26.48	25.67	25.21	25.08	24.92	24.81	
19	25.14	26.38	26.19	28.71	29.80	33.89	26.37	25.65	25.21	25.08	24.92	24.81	
20	25.06	26.08	26.93	29.35	29.10	34.47	26.47	25.64	25.20	25.08	24.94	24.82	
21	25.15	25.92	26.82	28.63	28.23	35.08	27.69	25.60	25.20	25.07	24.94	24.82	
22	25.53	25.78	27.03	28.24	28.57	35.16	27.63	25.58	25.20	25.06	24.95	24.82	
23	25.23	25.63	28.41	28.84	28.45	35.20	26.95	25.55	25.19	25.06	24.93	24.82	
24	25.15	25.09	28.30	28.86	31.10	35.24	26.52	25.52	25.18	25.06	24.92	24.82	
25	25.05	26.23	27.59	29.12	32.98	35.07	26.40	25.50	25.19	25.05	24.92	24.81	
26	25.01	26.11	26.98	30.24	34.01	34.74	26.33	25.50	25.20	25.05	24.92	24.81	
27	24.98	26.17	26.68	30.93	34.62	33.96	26.31	25.46	25.19	25.04	24.91	24.81	
28	24.94	27.14	26.87	31.88	34.40	32.76	26.29	25.40	25.18	25.04	24.90	24.80	
29	24.92	27.91	28.70	32.63	31.54	32.17	26.72	25.38	25.17	25.03		24.79	
30	24.89	26.45	28.53	32.82	28.42	33.01	26.70	25.36	25.16	24.99		24.80	
31		26.34		31.68	27.48		26.61		25.15	24.98		24.81	
MEAN	25.08	25.98	26.60	29.43	29.35	32.38	28.90	25.73	25.24	25.08	24.94	24.84	
MAX	26.06	29.56	28.70	32.87	34.62	35.24	34.84	26.27	25.35	25.15	24.97	24.89	35.24
MIN	24.87	24.86	25.59	26.45	26.76	27.28	26.29	25.36	25.15	24.98	24.90	24.79	24.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 35.26 M (MSL), AT 24.00 HOURS, ON SEP 24, 1978
ZERO GAGE AT BOTTOM ELEVATION 23.74 M (MSL), RIVER BED 24.25 M (MSL)
LEFT BANK ELEVATION 34.75 M (MSL)
RIGHT BANK ELEVATION 34.67 M (MSL), DRAINAGE AREA 2523 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.54	1.14	10.89	37.43	65.76	29.08	164.25	14.18	4.50	2.90	1.62	1.14	
2	2.29	1.02	8.60	26.20	41.34	66.33	179.05	12.43	4.50	2.82	1.62	1.14	
3	1.74	0.96	7.80	50.94	41.51	121.62	184.56	11.77	4.34	2.82	1.62	1.08	
4	1.44	3.86	6.70	55.69	63.48	143.32	168.85	11.00	4.34	2.74	1.62	1.08	
5	1.20	2.98	6.90	57.02	71.46	151.14	113.90	10.45	4.18	2.74	1.62	1.02	
6	1.08	2.15	8.20	19.78	66.33	122.06	99.30	10.01	4.10	2.74	1.56	1.08	
7	1.14	1.94	13.62	17.82	56.26	66.14	144.93	9.79	4.10	2.66	1.56	1.14	
8	1.02	1.50	14.46	19.50	68.42	48.09	164.48	9.68	4.02	2.43	1.56	1.14	
9	1.20	1.80	9.79	16.70	56.45	57.97	148.15	9.57	3.94	2.22	1.56	1.14	
10	1.20	1.62	7.40	44.06	55.50	58.16	83.24	9.24	3.86	2.22	1.50	1.14	
11	1.02	1.32	15.58	75.07	55.31	55.31	46.82	8.91	3.86	2.43	1.50	1.08	
12	1.02	1.26	13.62	67.28	45.59	97.70	36.92	8.70	3.78	2.82	1.44	1.02	
13	1.14	2.15	11.66	63.10	36.75	137.02	30.84	8.60	3.78	2.90	1.44	0.96	
14	1.74	5.08	12.98	71.84	31.48	155.05	26.84	8.50	3.78	2.58	1.44	0.96	
15	11.66	58.35	17.96	115.37	26.36	157.58	23.20	8.30	3.62	2.36	1.44	0.90	
16	7.50	69.94	19.92	137.24	21.10	123.38	20.80	8.00	3.46	2.29	1.44	0.84	
17	4.02	49.23	14.04	113.06	21.40	116.63	18.66	7.70	3.46	2.29	1.38	0.72	
18	3.54	22.90	13.76	83.43	53.60	143.09	17.12	7.50	3.38	2.36	1.32	0.66	
19	2.82	15.72	13.09	53.79	74.50	160.57	15.58	7.30	3.38	2.36	1.32	0.66	
20	2.22	11.88	23.65	65.95	61.20	173.98	16.98	7.20	3.30	2.36	1.44	0.72	
21	2.90	10.12	22.00	52.27	44.91	191.52	35.73	6.80	3.30	2.29	1.44	0.72	
22	6.10	8.60	25.15	45.08	51.13	193.84	34.71	6.60	3.30	2.22	1.50	0.72	
23	3.54	7.10	48.09	56.26	48.85	195.00	23.95	6.30	3.22	2.22	1.38	0.72	
24	2.90	2.43	46.10	56.64	99.30	196.16	17.68	6.00	3.14	2.22	1.32	0.72	
25	2.15	13.62	34.04	61.58	139.66	191.23	16.00	5.80	3.22	2.15	1.32	0.66	
26	1.87	12.21	24.40	82.86	163.33	181.66	15.02	5.80	3.30	2.15	1.32	0.66	
27	1.68	12.87	19.92	95.97	178.18	162.18	14.74	5.44	3.22	2.08	1.26	0.66	
28	1.44	26.84	22.75	115.58	172.30	134.82	14.46	4.90	3.14	2.08	1.20	0.60	
29	1.32	39.47	53.60	131.96	108.44	121.84	20.50	4.74	3.06	2.01		0.54	
30	1.14	16.70	50.37	136.14	48.28	140.33	20.20	4.58	2.98	1.74		0.60	
31		15.16		111.38	32.28		18.94		2.90	1.68		0.66	
TOTAL	77.57	421.92	597.04	2136.99	2100.46	3892.80	1936.40	245.79	112.46	73.88	40.74	26.88	11662.91 CMSDAY
MEAN	2.59	13.61	19.90	68.94	67.76	129.76	62.46	8.19	3.63	2.38	1.45	0.87	31.95 CMS
MAX	11.66	69.94	53.60	137.24	178.18	196.16	184.56	14.18	4.50	2.90	1.62	1.14	196.16 CMS
MIN	1.02	0.96	6.70	16.70	21.10	29.08	14.46	4.58	2.90	1.68	1.20	0.54	0.54 CMS
RUNOFF	6.702	36.454	51.584	184.636	181.480	336.338	167.305	21.236	9.717	6.383	3.520	2.322	1007.675 MCM

MOMENTARY PEAK 196.74 CMS, AT 35.26 M (MSL), AT 24.00 HOURS, ON SEP 24, 1978

RUNOFF YIELD 12.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 77.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

KHLONG PHRA PRONG AT BAN KAENG, PRACHIN BURI (KGT.12)

LOCATION — LAT. 13°-56'-02" N., LONG. 101°-58'-41" E., ON LEFT BANK NEAR 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.S.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +9.687 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 10 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

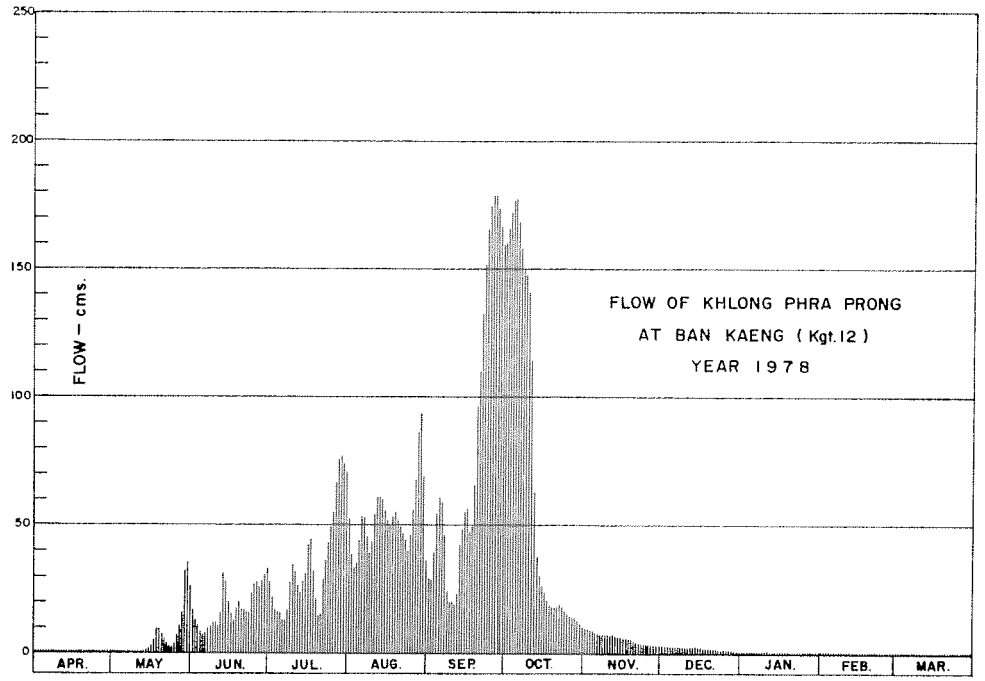
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.24	2.17	2.82	4.09	2.85	7.74	1.69	1.01	0.62	0.45	0.32	
2	0.29	0.21	1.91	2.43	3.32	2.83	7.88	1.64	0.97	0.62	0.45	0.31	
3	0.27	0.21	1.71	2.16	3.02	3.35	8.06	1.60	0.96	0.60	0.44	0.33	
4	0.26	0.20	1.52	2.09	3.13	4.03	8.22	1.55	0.96	0.59	0.44	0.33	
5	0.24	0.19	1.43	2.09	3.58	4.33	8.23	1.51	0.94	0.59	0.43	0.35	
6	0.22	0.20	1.48	1.91	3.99	4.25	7.99	1.49	0.94	0.59	0.44	0.34	
7	0.22	0.27	1.63	1.85	3.97	3.69	7.66	1.46	0.95	0.58	0.44	0.34	
8	0.22	0.44	1.71	2.15	3.60	2.69	7.46	1.44	0.94	0.57	0.42	0.33	
9	0.21	0.41	1.83	2.72	3.36	2.33	7.35	1.45	0.93	0.56	0.41	0.32	
10	0.21	0.34	1.83	3.12	3.51	2.30	7.13	1.47	0.95	0.55	0.38	0.32	
11	0.21	0.39	1.73	2.99	4.02	2.26	6.02	1.41	0.96	0.53	0.38	0.31	
12	0.21	0.45	2.08	2.70	4.31	2.52	4.42	1.43	0.94	0.54	0.37	0.31	
13	0.21	0.53	2.94	2.56	4.34	3.26	3.47	1.37	0.94	0.57	0.37	0.31	
14	0.21	0.76	2.78	2.76	4.27	3.77	3.01	1.35	0.94	0.57	0.37	0.31	
15	0.21	0.82	2.33	2.94	4.13	4.07	2.74	1.34	0.91	0.55	0.38	0.31	
16	0.19	0.95	2.08	3.48	3.95	4.12	2.55	1.30	0.88	0.53	0.40	0.23	
17	0.20	1.33	1.90	3.58	3.80	3.70	2.42	1.27	0.85	0.52	0.37	0.23	
18	0.20	1.60	2.18	3.12	3.96	3.83	2.29	1.24	0.81	0.51	0.35	0.27	
19	0.20	1.63	2.30	2.39	4.08	4.84	2.19	1.21	0.81	0.51	0.35	0.32	
20	0.22	1.42	2.15	1.98	3.99	5.50	2.19	1.18	0.83	0.51	0.35	0.30	
21	0.28	1.26	2.12	2.03	3.81	6.16	2.19	1.14	0.83	0.48	0.35	0.30	
22	0.30	1.09	2.05	2.74	3.72	6.89	2.26	1.12	0.80	0.48	0.35	0.29	
23	0.30	0.96	2.10	3.20	3.56	7.47	2.22	1.10	0.80	0.47	0.37	0.26	
24	0.30	0.89	2.50	3.51	3.38	7.87	2.14	1.09	0.79	0.45	0.37	0.24	
25	0.26	1.05	2.73	3.81	3.67	8.15	2.05	1.08	0.77	0.44	0.34	0.24	
26	0.23	1.43	2.76	4.07	4.13	8.27	1.99	1.05	0.76	0.47	0.33	0.26	
27	0.24	1.76	2.68	4.52	4.60	8.26	1.97	1.04	0.73	0.47	0.34	0.26	
28	0.26	2.10	2.77	4.91	5.32	8.14	1.92	1.03	0.70	0.46	0.34	0.26	
29	0.25	3.00	2.92	4.95	5.60	7.93	1.87	1.01	0.69	0.46		0.23	
30	0.25	3.13	3.05	4.85	4.65	7.72	1.84	1.01	0.67	0.46		0.23	
31		2.69		4.75	3.20		1.75		0.65	0.45		0.23	
MEAN	0.24	1.03	2.18	3.07	3.94	4.91	4.23	1.30	0.86	0.53	0.38	0.29	
MAX	0.30	3.13	3.05	4.95	5.60	8.27	8.23	1.69	1.01	0.62	0.45	0.35	8.27
MIN	0.19	0.19	1.43	1.85	3.02	2.26	1.75	1.01	0.65	0.44	0.33	0.23	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.28 M (A.D), AT 18.00 HOURS, ON SEP 26, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.40 M (A.D)

LEFT BANK ELEVATION — 9.60 M (A.D)

RIGHT BANK ELEVATION — 9.25 M (A.D), DRAINAGE AREA 1540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	17.52	28.88	55.67	29.45	159.87	10.57	3.28	0.70	0.10	0.00	
2	0.00	0.00	13.55	21.74	38.64	29.07	164.66	9.92	2.96	0.70	0.10	0.00	
3	0.00	0.00	10.83	17.36	32.68	39.30	170.81	9.40	2.88	0.60	0.08	0.00	
4	0.00	0.00	8.44	16.25	34.80	54.29	176.32	8.80	2.88	0.56	0.08	0.00	
5	0.00	0.00	7.36	16.25	44.31	61.32	176.68	8.32	2.72	0.56	0.06	0.00	
6	0.00	0.00	7.96	13.55	53.37	59.40	168.42	8.08	2.72	0.56	0.08	0.00	
7	0.00	0.00	9.79	12.70	52.91	46.65	157.18	7.72	2.80	0.52	0.08	0.00	
8	0.00	0.08	10.83	17.20	44.73	26.42	150.58	7.48	2.72	0.48	0.04	0.00	
9	0.00	0.02	12.42	26.98	39.52	20.08	146.95	7.60	2.64	0.44	0.02	0.00	
10	0.00	0.00	12.42	34.60	42.81	19.60	139.76	7.84	2.80	0.40	0.00	0.00	
11	0.00	0.00	11.09	32.11	54.06	18.96	105.38	7.12	2.88	0.32	0.00	0.00	
12	0.00	0.10	16.10	26.60	60.84	23.36	63.48	7.36	2.72	0.36	0.00	0.00	
13	0.00	0.32	31.16	24.08	61.56	37.40	41.94	6.70	2.72	0.48	0.00	0.00	
14	0.00	1.46	28.12	27.74	59.88	48.36	32.49	6.50	2.72	0.48	0.00	0.00	
15	0.00	1.84	20.08	31.16	56.59	55.21	27.36	6.40	2.48	0.40	0.00	0.00	
16	0.00	2.80	16.10	42.16	52.45	56.36	23.90	6.00	2.26	0.32	0.00	0.00	
17	0.00	6.30	13.40	44.31	49.00	46.87	21.56	5.70	2.05	0.28	0.00	0.00	
18	0.00	9.40	17.68	34.60	52.68	49.69	19.44	5.40	1.77	0.24	0.00	0.00	
19	0.00	9.79	19.60	21.04	55.44	73.70	17.84	5.10	1.77	0.24	0.00	0.00	
20	0.00	7.24	17.20	14.60	53.37	90.70	17.84	4.80	1.91	0.24	0.00	0.00	
21	0.00	5.60	16.72	15.35	49.23	109.44	17.84	4.40	1.91	0.16	0.00	0.00	
22	0.00	3.92	15.65	27.36	47.29	132.08	18.96	4.20	1.70	0.16	0.00	0.00	
23	0.00	2.88	16.40	36.20	43.88	150.91	18.32	4.00	1.70	0.14	0.00	0.00	
24	0.00	2.33	23.00	42.81	39.96	164.31	17.04	3.92	1.64	0.10	0.00	0.00	
25	0.00	3.60	27.17	49.23	46.23	173.89	15.65	3.84	1.52	0.08	0.00	0.00	
26	0.00	7.36	27.74	55.21	56.59	178.12	14.75	3.60	1.46	0.14	0.00	0.00	
27	0.00	11.48	26.24	65.88	67.80	177.76	14.45	3.52	1.28	0.14	0.00	0.00	
28	0.00	16.40	27.93	75.45	85.92	173.55	13.70	3.44	1.10	0.12	0.00	0.00	
29	0.00	32.30	30.78	76.45	93.40	166.37	12.98	3.28	1.05	0.12		0.00	
30	0.00	34.80	33.25	73.95	69.00	159.18	12.56	3.28	0.95	0.12		0.00	
31		26.42		71.45	36.20		11.35		0.85	0.10		0.00	
TOTAL	0.00	186.44	546.53	1093.25	1630.81	2471.80	2150.06	184.29	66.84	10.26	0.64	0.00	8340.91 CMSDAY
MEAN	0.00	6.01	18.22	35.27	52.61	82.39	69.36	6.14	2.16	0.33	0.02	0.00	22.85 CMS
MAX	0.00	34.80	33.25	76.45	93.40	178.12	176.68	10.57	3.28	0.70	0.10	0.00	178.12 CMS
MIN	0.00	0.00	7.36	12.70	32.68	18.96	11.35	3.28	0.85	0.08	0.00	0.00	0.00 CMS
RUNOFF	0.000	16.108	47.220	94.457	140.902	213.563	185.765	15.923	5.775	0.886	0.055	0.000	720.654 MCM

MOMENTARY PEAK 178.48 CMS, AT 8.28 M (A.D), AT 18.00 HOURS, ON SEP 26, 1978

RUNOFF YIELD 14.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 115.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN 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.S.

LOCATION — ON LEFT BANK NEAR THE GAGE SITE.

ELEVATION — +10.712 M. (M.S.L.)

GAGE READING FREQUENCY — 3-8 TIME DAILY READINGS AT 03.00, 06.00, 09.00, 12.00, 15.00, 18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3-8 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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

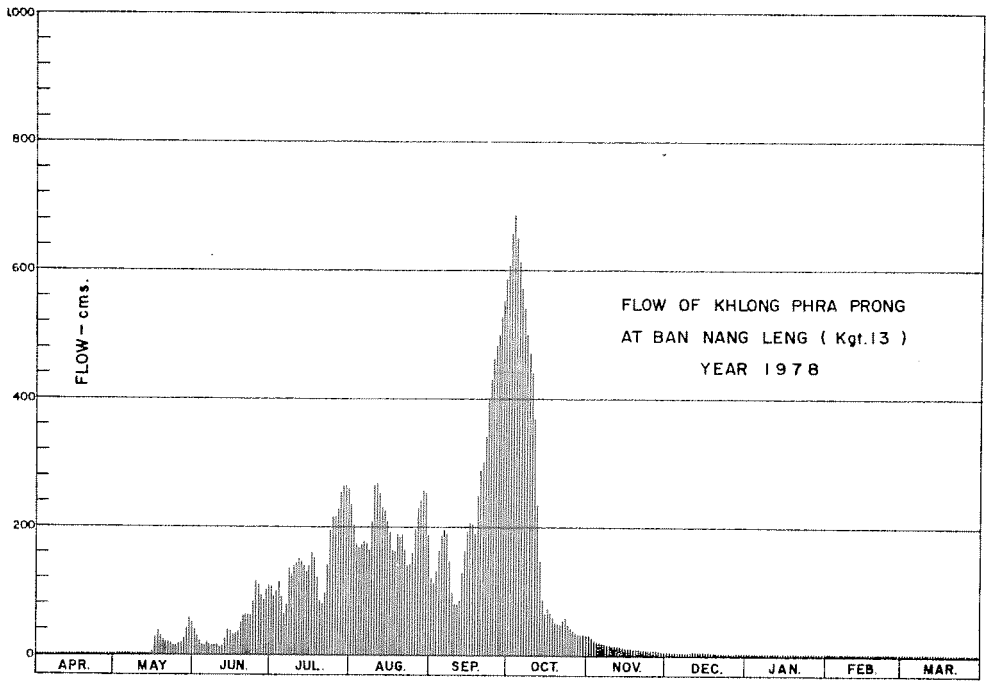
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +10.10 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 136 DISCHARGE MEASUREMENTS MADE DURING 1971-1976.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.30	1.25	3.78	5.72	8.33	6.05	10.84	3.46	2.15	1.74	1.45	1.34	
2	1.43	1.24	3.38	5.32	7.72	5.80	10.98	3.29	2.13	1.70	1.44	1.34	
3	1.49	1.21	3.00	5.54	7.16	6.22	11.04	3.16	2.10	1.70	1.43	1.32	
4	1.38	1.18	2.75	5.92	7.05	6.95	10.96	3.08	2.09	1.68	1.42	1.31	
5	1.31	1.18	2.67	5.30	7.19	7.45	10.83	2.95	2.07	1.66	1.43	1.31	
6	1.26	1.24	2.99	4.66	7.26	7.60	10.71	2.89	2.05	1.65	1.43	1.31	
7	1.21	1.40	2.77	5.00	7.21	7.49	10.61	2.85	2.04	1.63	1.41	1.30	
8	1.18	1.33	2.69	6.34	6.97	6.60	10.45	2.81	2.03	1.62	1.41	1.30	
9	1.17	1.31	2.84	6.16	7.84	5.45	10.33	2.77	2.05	1.61	1.41	1.30	
10	1.17	1.29	2.79	6.46	8.72	5.04	10.18	2.76	2.05	1.60	1.40	1.30	
11	1.15	1.28	2.63	6.58	8.76	5.00	9.80	2.75	2.07	1.58	1.40	1.29	
12	1.17	1.29	2.63	6.66	8.53	5.18	8.29	2.69	2.06	1.57	1.40	1.28	
13	1.17	1.30	3.24	6.57	8.20	6.20	6.40	2.66	2.05	1.62	1.39	1.27	
14	1.16	1.34	3.77	6.46	8.10	7.24	5.19	2.61	2.04	1.65	1.39	1.26	
15	1.18	1.47	3.72	6.24	7.88	7.59	4.61	2.57	2.04	1.66	1.38	1.26	
16	1.23	2.16	3.57	6.48	7.50	7.78	4.86	2.56	2.03	1.64	1.37	1.26	
17	1.81	3.44	3.65	6.82	6.91	7.77	4.69	2.51	2.06	1.59	1.37	1.26	
18	1.71	3.70	3.68	6.72	6.93	7.46	4.43	2.47	2.05	1.57	1.37	1.26	
19	1.52	3.34	4.17	6.04	7.43	8.07	4.22	2.43	2.00	1.56	1.37	1.25	
20	1.44	3.07	4.53	5.14	7.40	9.04	4.11	2.40	1.97	1.54	1.37	1.24	
21	1.41	2.99	4.51	5.00	7.10	9.21	4.09	2.37	1.96	1.53	1.36	1.24	
22	1.36	2.92	4.53	5.70	6.65	9.60	4.31	2.34	1.94	1.52	1.36	1.24	
23	1.34	2.80	4.50	6.44	6.49	9.99	4.42	2.32	1.91	1.51	1.36	1.24	
24	1.65	2.67	5.12	7.64	6.50	10.16	4.12	2.28	1.88	1.50	1.36	1.24	
25	1.52	2.70	5.91	7.96	6.91	10.30	3.89	2.26	1.88	1.49	1.36	1.24	
26	1.44	2.85	5.77	7.98	7.80	10.39	3.75	2.25	1.88	1.49	1.36	1.23	
27	1.37	2.98	5.37	8.28	8.20	10.45	3.64	2.22	1.86	1.48	1.35	1.23	
28	1.33	3.33	5.18	8.58	8.40	10.55	3.57	2.20	1.84	1.47	1.35	1.22	
29	1.29	3.88	5.55	8.72	8.62	10.65	3.51	2.17	1.82	1.46		1.22	
30	1.26	4.38	5.77	8.76	8.57	10.76	3.51	2.17	1.78	1.46		1.22	
31		4.21		8.66	7.42		3.52		1.75	1.46		1.22	
MEAN	1.35	2.28	3.92	6.58	7.60	7.93	6.64	2.61	1.99	1.58	1.39	1.27	
MAX	1.81	4.38	5.91	8.76	8.76	10.76	11.04	3.46	2.15	1.74	1.45	1.34	11.04
MIN	1.15	1.18	2.63	4.66	6.49	5.00	3.51	2.17	1.75	1.46	1.35	1.22	1.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.05 M (MSL), AT 24.00 HOURS, ON OCT 2, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.45	40.40	108.80	238.80	122.75	610.40	32.00	7.25	2.84	1.25	0.76	
2	1.15	0.42	30.00	92.80	203.10	112.00	657.80	27.80	6.95	2.60	1.20	0.76	
3	1.45	0.33	22.00	101.60	174.00	130.40	687.00	25.20	6.50	2.60	1.15	0.68	
4	0.92	0.24	17.00	116.90	168.50	163.50	650.60	23.60	6.37	2.48	1.10	0.64	
5	0.64	0.24	15.40	92.00	175.50	188.50	607.30	21.00	6.11	2.36	1.15	0.64	
6	0.48	0.42	21.80	67.60	179.00	196.50	571.00	19.80	5.85	2.30	1.15	0.64	
7	0.33	1.00	17.40	80.00	176.50	190.50	542.80	19.00	5.72	2.18	1.05	0.60	
8	0.24	0.72	15.80	135.80	164.50	147.50	499.50	18.20	5.59	2.12	1.05	0.60	
9	0.21	0.64	18.80	127.70	209.70	98.00	470.20	17.40	5.85	2.06	1.05	0.60	
10	0.21	0.57	17.80	141.20	265.40	81.60	435.00	17.20	5.85	2.00	1.00	0.60	
11	0.15	0.54	14.60	146.60	268.20	80.00	369.00	17.00	6.11	1.90	1.00	0.57	
12	0.21	0.57	14.60	150.20	252.10	87.20	236.40	15.80	5.98	1.85	1.00	0.54	
13	0.21	0.60	26.80	146.15	231.00	129.50	138.50	15.20	5.85	2.12	0.96	0.51	
14	0.18	0.76	40.10	141.20	225.00	178.00	87.60	14.20	5.72	2.30	0.96	0.48	
15	0.24	1.35	38.60	131.30	211.90	195.95	65.85	13.55	5.72	2.36	0.92	0.48	
16	0.39	7.40	34.75	142.10	191.00	206.40	74.60	13.40	5.59	2.24	0.88	0.48	
17	3.30	31.50	36.75	157.40	161.50	205.85	68.65	12.65	5.98	1.95	0.88	0.48	
18	2.66	38.00	37.50	152.90	162.50	189.00	59.90	12.05	5.85	1.85	0.88	0.48	
19	1.60	29.00	52.10	122.30	187.50	223.20	53.60	11.45	5.20	1.80	0.88	0.45	
20	1.20	23.40	63.05	85.60	186.00	288.20	50.30	11.00	4.90	1.70	0.88	0.42	
21	1.05	21.80	62.35	80.00	171.00	301.90	49.70	10.55	4.80	1.65	0.84	0.42	
22	0.84	20.40	63.05	108.00	149.75	342.00	56.30	10.10	4.60	1.60	0.84	0.42	
23	0.76	18.00	62.00	140.30	142.55	398.40	59.60	9.80	4.30	1.55	0.84	0.42	
24	2.30	15.40	84.80	198.70	143.00	431.00	50.60	9.20	4.00	1.50	0.84	0.42	
25	1.60	16.00	116.45	216.60	161.50	463.00	43.70	8.90	4.00	1.45	0.84	0.42	
26	1.20	19.00	110.80	217.80	207.50	484.60	39.50	8.75	4.00	1.45	0.84	0.39	
27	0.88	21.60	94.80	235.80	231.00	499.50	36.50	8.30	3.80	1.40	0.80	0.39	
28	0.72	28.75	87.20	255.60	243.00	526.00	34.75	8.00	3.60	1.35	0.80	0.36	
29	0.57	43.40	102.00	265.40	258.40	554.00	33.25	7.55	3.40	1.30		0.36	
30	0.48	58.40	110.80	268.20	254.90	586.00	33.25	7.55	3.08	1.30		0.36	
31		53.30		261.20	187.00		33.50		2.90	1.30		0.36	
TOTAL	26.77	454.20	1469.50	4687.75	6181.30	7800.95	7406.64	446.20	161.42	59.46	27.03	15.73	28736.93 CMSDAY
MEAN	0.89	14.65	48.98	151.22	199.40	260.03	238.92	14.87	5.21	1.92	0.97	0.51	78.73 CMS
MAX	3.30	58.40	116.45	268.20	268.20	586.00	687.00	32.00	7.25	2.84	1.25	0.76	687.00 CMS
MIN	0.15	0.24	14.60	67.60	142.55	80.00	33.25	7.55	2.90	1.30	0.80	0.36	0.15 CMS
RUNOFF	2.313	39.243	126.965	405.021	534.064	674.002	639.934	38.552	13.947	5.137	2.335	1.359	2482.870 MCM

MOMENTARY PEAK 692.50 CMS, AT 11.05 M (MSL), AT 24.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 14.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 129.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

HUAI YANG AT BAN THUNG FAEK, PRACHIN BURI (KGT.14)

LOCATION — LAT. 14°-09'-30" N., LONG. 101°-52'-52" E., ON LEFT BANK 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 — +34.61 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

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 — 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 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

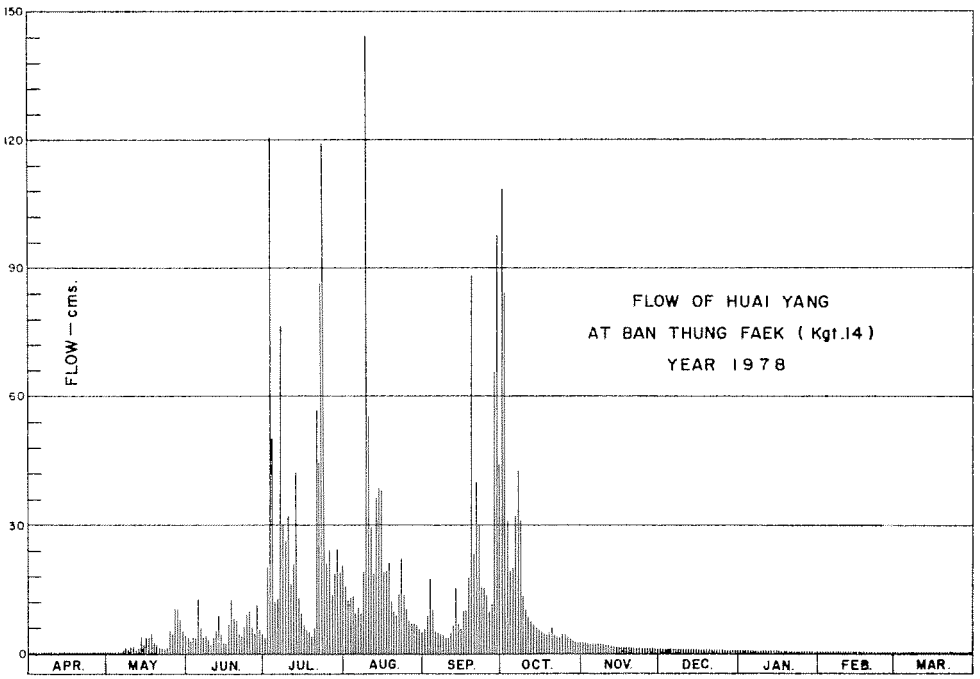
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	34.71	34.76	35.35	35.32	35.95	35.47	38.42	35.21	35.04	34.94	34.89	34.81	
2	34.70	34.75	35.23	36.15	35.80	35.63	37.91	35.21	35.03	34.94	34.88	34.80	
3	34.70	34.74	35.33	38.64	35.84	36.03	36.50	35.20	35.03	34.93	34.88	34.80	
4	34.69	34.74	35.33	36.57	35.86	35.71	36.10	35.19	35.02	34.93	34.89	34.80	
5	34.69	34.74	35.83	35.79	35.67	35.43	36.12	35.19	35.02	34.93	34.89	34.80	
6	34.72	34.77	35.54	35.83	35.74	35.43	36.44	35.19	35.01	34.93	34.89	34.81	
7	34.72	34.95	35.33	37.74	35.66	35.39	36.87	35.20	35.01	34.93	34.88	34.83	
8	34.71	35.09	35.36	36.46	36.10	35.36	36.41	35.20	35.00	34.92	34.87	34.83	
9	34.71	34.99	35.29	36.37	39.07	35.33	35.85	35.19	35.00	34.93	34.87	34.82	
10	34.70	35.10	35.19	36.54	37.23	35.32	35.72	35.18	35.00	34.97	34.87	34.81	
11	34.71	35.07	35.33	35.98	36.32	35.41	35.63	35.16	35.00	34.96	34.86	34.80	
12	34.75	34.99	35.47	36.16	36.08	35.53	35.57	35.15	35.00	34.94	34.86	34.79	
13	34.75	35.13	35.63	36.85	36.67	35.94	35.53	35.14	35.00	34.93	34.85	34.79	
14	34.80	35.33	35.38	35.88	36.75	35.55	35.49	35.13	34.99	34.93	34.85	34.79	
15	34.80	35.18	35.20	35.65	36.73	35.47	35.45	35.12	34.98	34.93	34.84	34.79	
16	34.78	35.32	35.22	35.53	36.09	35.69	35.41	35.12	34.98	34.92	34.84	34.79	
17	34.76	35.32	35.54	35.46	36.10	35.70	35.40	35.11	34.98	34.92	34.84	34.79	
18	34.74	35.39	35.81	35.40	36.19	36.03	35.38	35.11	34.97	34.92	34.84	34.80	
19	34.73	35.21	35.59	35.35	35.83	38.00	35.39	35.10	34.97	34.92	34.84	34.80	
20	34.71	35.12	35.58	35.47	35.72	36.25	35.49	35.09	34.97	34.90	34.84	34.79	
21	34.71	35.07	35.38	37.27	35.63	36.79	35.38	35.08	34.96	34.90	34.84	34.79	
22	34.70	35.08	35.34	36.93	35.88	36.47	35.34	35.08	34.96	34.90	34.84	34.78	
23	34.70	35.02	35.52	36.62	36.23	35.95	35.34	35.08	34.96	34.90	34.83	34.78	
24	34.69	35.06	35.66	37.14	35.87	35.94	35.39	35.07	34.96	34.89	34.83	34.77	
25	34.71	35.42	35.69	36.17	35.70	35.87	35.37	35.06	34.96	34.89	34.83	34.77	
26	34.72	35.37	35.47	36.29	35.58	35.68	35.32	35.06	34.96	34.89	34.82	34.77	
27	34.76	35.72	35.42	35.89	35.54	35.77	35.29	35.05	34.95	34.89	34.81	34.77	
28	34.78	35.71	35.77	36.07	35.55	37.19	35.26	35.05	34.95	34.89	34.81	34.77	
29	34.79	35.40	35.47	36.30	35.54	38.21	35.25	35.04	34.95	34.89		34.76	
30	34.78	35.48	35.39	36.08	35.45	36.92	35.22	35.04	34.95	34.89		34.76	
31		35.36		36.15	35.43		35.23		34.94	34.89		34.76	
MEAN	34.73	35.14	35.45	36.32	36.06	35.98	35.79	35.13	34.98	34.92	34.85	34.79	
MAX	34.80	35.72	35.83	38.64	39.07	38.21	38.42	35.21	35.04	34.97	34.89	34.83	39.07
MIN	34.69	34.74	35.19	35.32	35.43	35.32	35.22	35.04	34.94	34.89	34.81	34.76	34.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 39.81 M (MSL), AT 12.00 HOURS, ON AUG 9, 1978

ZERO GAGE AT BOTTOM ELEVATION 34.61 M (MSL), RIVER BED 33.40 M (MSL)

LEFT BANK ELEVATION 43.04 M (MSL)

RIGHT BANK ELEVATION 44.05 M (MSL), DRAINAGE AREA 366 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.12	4.15	3.76	15.65	5.78	108.54	2.51	1.20	0.70	0.47	0.23	
2	0.00	0.10	2.73	20.50	12.30	8.80	84.15	2.51	1.15	0.70	0.44	0.20	
3	0.00	0.08	3.89	120.06	13.18	17.52	30.70	2.40	1.15	0.65	0.44	0.20	
4	0.00	0.08	3.89	32.94	13.62	10.41	19.20	2.31	1.10	0.65	0.47	0.20	
5	0.00	0.08	12.96	12.09	9.60	5.22	19.72	2.31	1.10	0.65	0.47	0.20	
6	0.04	0.14	7.00	12.96	11.04	5.22	28.84	2.31	1.05	0.65	0.47	0.23	
7	0.04	0.75	3.89	76.66	9.40	4.67	42.71	2.40	1.05	0.65	0.44	0.29	
8	0.02	1.45	4.28	29.46	19.20	4.28	27.91	2.40	1.00	0.60	0.41	0.29	
9	0.02	0.95	3.39	26.67	144.16	3.89	13.40	2.31	1.00	0.65	0.41	0.26	
10	0.00	1.50	2.31	31.98	55.40	3.76	10.62	2.22	1.00	0.85	0.41	0.23	
11	0.02	1.35	3.89	16.34	25.12	4.94	8.80	2.04	1.00	0.80	0.38	0.20	
12	0.10	0.95	5.78	20.76	18.72	6.80	7.60	1.95	1.00	0.70	0.38	0.18	
13	0.10	1.77	8.80	42.05	36.14	15.42	6.80	1.86	1.00	0.65	0.35	0.18	
14	0.20	3.89	4.54	14.06	38.75	7.20	6.06	1.77	0.95	0.65	0.35	0.18	
15	0.20	2.22	2.40	9.20	38.09	5.78	5.50	1.68	0.90	0.65	0.32	0.18	
16	0.16	3.76	2.62	6.80	18.96	10.00	4.94	1.68	0.90	0.60	0.32	0.18	
17	0.12	3.76	7.00	5.64	19.20	10.20	4.80	1.59	0.90	0.60	0.32	0.18	
18	0.08	4.67	12.52	4.80	21.54	17.52	4.54	1.59	0.85	0.60	0.32	0.20	
19	0.06	2.51	8.00	4.15	12.96	88.20	4.67	1.50	0.85	0.60	0.32	0.20	
20	0.02	1.68	7.80	5.78	10.62	23.15	6.06	1.45	0.85	0.50	0.32	0.16	
21	0.02	1.35	4.54	57.00	8.80	40.07	4.54	1.40	0.80	0.50	0.32	0.18	
22	0.00	1.40	4.02	44.69	14.06	29.77	4.02	1.40	0.80	0.50	0.32	0.16	
23	0.00	1.10	6.60	118.98	22.61	15.65	4.02	1.40	0.80	0.50	0.29	0.16	
24	0.00	1.30	9.40	51.98	13.94	15.42	4.67	1.35	0.80	0.47	0.29	0.14	
25	0.02	5.08	10.00	21.02	10.20	13.84	4.41	1.30	0.80	0.47	0.29	0.14	
26	0.04	4.41	5.78	24.23	7.80	9.80	3.76	1.30	0.80	0.47	0.26	0.14	
27	0.12	10.62	5.08	14.28	7.00	11.67	3.39	1.25	0.75	0.47	0.23	0.14	
28	0.16	10.41	11.67	19.48	7.20	53.83	3.06	1.25	0.75	0.47	0.23	0.14	
29	0.18	4.80	5.78	24.50	7.00	98.00	2.95	1.20	0.75	0.47		0.12	
30	0.16	5.92	4.67	18.72	5.50	44.36	2.62	1.20	0.75	0.47		0.12	
31		4.28		20.50	5.22		2.73		0.70	0.47		0.12	
TOTAL	1.90	82.48	170.38	911.04	652.88	591.17	485.73	53.84	28.50	18.36	10.04	5.75	3021.06 CMSDAY
MEAN	0.06	2.66	5.98	29.39	21.06	19.71	15.67	1.79	0.92	0.59	0.36	0.19	8.28 CMS
MAX	0.20	10.62	12.96	120.06	144.16	98.00	108.54	2.51	1.20	0.85	0.47	0.29	144.16 CMS
MIN	0.00	0.08	2.31	3.76	5.22	3.76	2.62	1.20	0.70	0.47	0.23	0.12	0.00 CMS
RUNOFF	0.164	7.126	15.498	78.714	56.409	51.077	41.967	4.652	2.462	1.586	0.867	0.497	261.020 MCM

MOMENTARY PEAK 187.92 CMS, AT 39.81 M (MSL), AT 12.00 HOURS, ON AUG 9, 1978

RUNOFF YIELD 22.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 513.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

HUAI SAMONG AT BAN KAENG DIN SO, PRACHIN BURI (KGT.15A)

LOCATION — LAT. 14°-03'-46" N., LONG. 101°-55'-39" E., ON RIGHT BANK AT BAN KAENG DIN SO 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.-H.S.

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 88 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

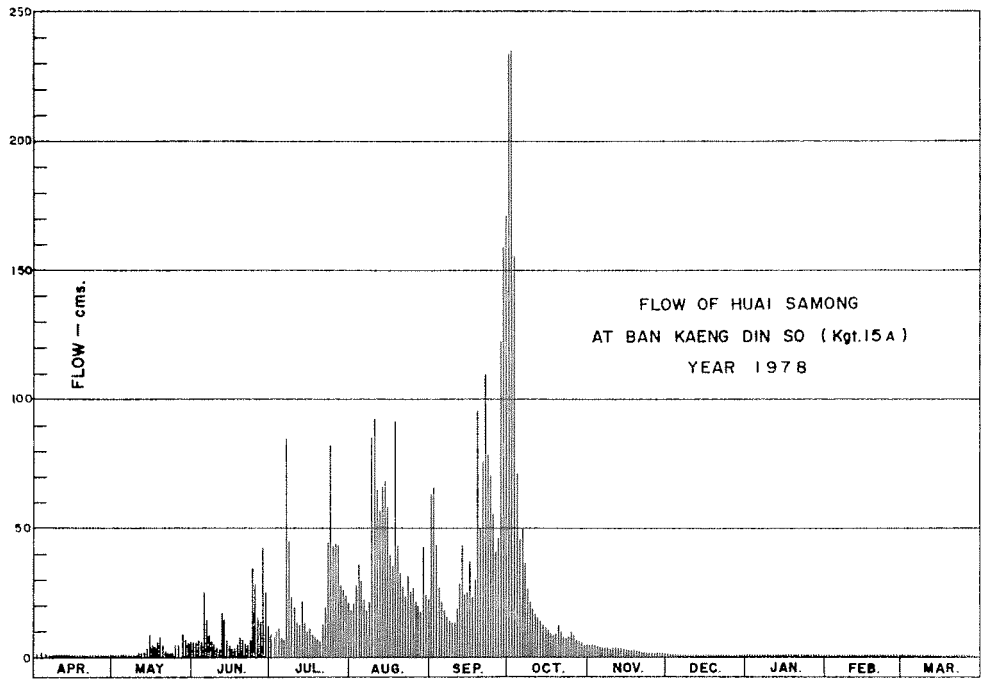
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.67	0.63	1.35	1.48	1.96	3.32	6.80	1.25	0.89	0.75	0.66	0.73	
2	0.65	0.63	1.38	1.43	2.05	3.38	6.82	1.25	0.87	0.75	0.66	0.67	
3	0.63	0.63	1.41	1.59	2.33	2.78	5.40	1.23	0.87	0.75	0.66	0.66	
4	0.63	0.62	1.38	1.62	2.58	2.30	3.52	1.19	0.87	0.75	0.66	0.66	
5	0.62	0.62	2.22	1.40	2.33	2.08	2.84	1.19	0.86	0.75	0.66	0.66	
6	0.61	0.71	1.77	1.38	2.02	1.95	2.97	1.18	0.86	0.75	0.66	0.66	
7	0.61	0.84	1.49	3.86	1.96	1.84	2.58	1.18	0.85	0.72	0.66	0.66	
8	0.60	0.74	1.34	2.85	2.07	1.77	2.25	1.19	0.83	0.72	0.66	0.65	
9	0.60	0.69	1.25	2.16	3.87	1.73	2.07	1.19	0.83	0.72	0.66	0.62	
10	0.60	0.74	1.15	2.03	4.03	1.72	1.93	1.16	0.82	0.71	0.66	0.62	
11	0.60	0.89	1.09	1.75	3.39	2.00	1.87	1.13	0.82	0.71	0.66	0.62	
12	0.60	0.88	1.89	1.66	3.18	2.31	1.83	1.13	0.81	0.71	0.66	0.62	
13	0.60	0.98	1.80	2.07	3.39	2.78	1.76	1.11	0.80	0.73	0.66	0.62	
14	0.62	1.11	1.37	1.75	3.45	2.17	1.69	1.10	0.80	0.73	0.66	0.62	
15	0.67	1.47	1.20	1.54	3.19	2.21	1.64	1.09	0.79	0.72	0.66	0.62	
16	0.67	1.22	1.08	1.64	2.68	2.61	1.58	1.06	0.78	0.72	0.65	0.64	
17	0.67	1.17	1.13	1.47	2.55	2.14	1.53	1.04	0.78	0.72	0.65	0.66	
18	0.66	1.31	1.28	1.40	4.00	2.35	1.50	1.03	0.78	0.72	0.65	0.66	
19	0.66	1.44	1.43	1.36	2.79	4.09	1.55	1.02	0.78	0.72	0.65	0.66	
20	0.65	1.23	1.37	1.32	2.46	2.99	1.66	1.01	0.78	0.70	0.65	0.66	
21	0.64	1.06	1.25	1.72	2.30	3.65	1.55	1.00	0.78	0.70	0.65	0.66	
22	0.63	0.98	1.23	2.00	2.13	4.41	1.46	0.98	0.77	0.69	0.64	0.66	
23	0.63	0.99	1.38	2.83	2.42	3.71	1.45	0.97	0.77	0.69	0.64	0.65	
24	0.63	0.94	2.52	3.80	2.22	3.49	1.48	0.96	0.76	0.69	0.64	0.60	
25	0.63	1.26	2.33	2.80	2.26	3.12	1.57	0.95	0.76	0.68	0.64	0.59	
26	0.63	1.24	1.82	2.82	2.05	2.72	1.46	0.94	0.76	0.68	0.64	0.58	
27	0.64	1.31	1.74	2.78	1.98	2.86	1.38	0.93	0.76	0.68	0.64	0.65	
28	0.69	1.52	2.77	2.33	1.89	4.70	1.34	0.91	0.75	0.67	0.75	0.63	
29	0.66	1.39	2.19	2.25	2.77	5.49	1.28	0.90	0.75	0.66		0.60	
30	0.64	1.27	1.67	2.20	2.17	5.80	1.25	0.89	0.75	0.66		0.60	
31		1.28		2.06	2.12		1.24		0.75	0.66		0.59	
MEAN	0.63	1.03	1.58	2.04	2.60	2.95	2.23	1.07	0.80	0.71	0.66	0.64	
MAX	0.69	1.52	2.77	3.86	4.03	5.80	6.82	1.25	0.89	0.75	0.75	0.73	6.82
MIN	0.60	0.62	1.08	1.32	1.89	1.72	1.24	0.89	0.75	0.66	0.64	0.58	0.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.02 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.65 M (A.D)

LEFT BANK ELEVATION 12.60 M (A.D)

RIGHT BANK ELEVATION 10.35 M (A.D), DRAINAGE AREA 530 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.41	0.29	6.25	8.20	18.50	62.80	233.50	4.75	1.16	0.65	0.38	0.59	
2	0.35	0.29	6.70	7.45	20.75	65.20	234.70	4.75	1.08	0.65	0.38	0.41	
3	0.29	0.29	7.15	10.30	28.40	42.80	155.00	4.45	1.08	0.65	0.38	0.38	
4	0.29	0.26	6.70	10.90	35.90	27.50	70.80	3.90	1.08	0.65	0.38	0.38	
5	0.26	0.26	25.10	7.00	28.40	21.50	44.90	3.90	1.04	0.65	0.38	0.38	
6	0.23	0.53	13.90	6.70	20.00	18.25	49.45	3.80	1.04	0.65	0.38	0.38	
7	0.23	0.96	8.35	84.70	18.50	15.50	35.90	3.80	1.00	0.56	0.38	0.38	
8	0.20	0.62	6.10	45.25	21.25	13.90	26.00	3.90	0.92	0.56	0.38	0.35	
9	0.20	0.47	4.75	23.50	85.15	13.10	21.25	3.90	0.92	0.56	0.38	0.26	
10	0.20	0.62	3.50	20.25	92.35	12.90	17.75	3.60	0.88	0.53	0.38	0.26	
11	0.20	1.16	2.90	13.50	65.60	19.50	16.25	3.30	0.88	0.53	0.38	0.26	
12	0.20	1.12	16.75	11.70	57.20	27.80	15.25	3.30	0.84	0.53	0.38	0.26	
13	0.20	1.84	14.50	21.25	65.60	42.80	13.70	3.10	0.80	0.59	0.38	0.26	
14	0.26	3.10	6.55	13.50	68.00	23.75	12.30	3.00	0.80	0.59	0.38	0.26	
15	0.41	3.05	4.00	9.30	57.60	24.80	11.30	2.90	0.77	0.56	0.38	0.26	
16	0.41	4.30	2.80	11.30	39.30	36.85	10.10	2.60	0.74	0.56	0.35	0.32	
17	0.41	3.70	3.30	8.05	35.00	23.00	9.10	2.40	0.74	0.56	0.35	0.38	
18	0.38	5.65	5.20	7.00	91.00	29.00	8.50	2.30	0.74	0.56	0.35	0.38	
19	0.38	7.50	7.45	6.40	43.15	95.05	9.50	2.20	0.74	0.56	0.35	0.38	
20	0.35	4.45	6.55	5.80	32.30	50.15	11.70	2.10	0.74	0.50	0.35	0.38	
21	0.32	2.60	4.75	12.90	27.50	76.00	9.50	2.00	0.74	0.50	0.35	0.38	
22	0.26	1.84	4.45	19.50	22.75	109.45	7.90	1.84	0.71	0.47	0.32	0.38	
23	0.29	1.92	6.70	44.55	31.10	78.40	7.75	1.76	0.71	0.47	0.32	0.35	
24	0.29	1.52	34.10	82.00	25.10	69.60	8.20	1.68	0.68	0.47	0.32	0.20	
25	0.29	4.90	28.40	43.50	26.30	54.80	9.90	1.60	0.68	0.44	0.32	0.18	
26	0.29	4.60	15.00	44.20	20.75	40.70	7.90	1.52	0.68	0.44	0.32	0.16	
27	0.32	5.65	13.30	42.80	19.00	45.60	6.70	1.44	0.68	0.44	0.32	0.35	
28	0.47	8.90	42.45	28.40	16.75	122.50	6.10	1.28	0.65	0.41	0.65	0.29	
29	0.38	6.85	24.25	26.00	42.45	159.50	5.20	1.20	0.65	0.38		0.20	
30	0.32	5.05	11.90	24.50	23.75	176.00	4.75	1.16	0.65	0.38		0.20	
31		5.20		21.00	22.50		4.60		0.65	0.38		0.18	
TOTAL	9.12	94.59	343.80	721.40	1201.00	1598.70	1085.45	83.43	25.47	16.43	10.37	9.78	5200.43 CMSDAY
MEAN	0.30	3.05	11.46	23.27	38.77	53.29	35.01	2.78	0.82	0.53	0.37	0.32	14.25 CMS
MAX	0.47	8.90	42.45	84.70	92.35	176.00	234.70	4.75	1.16	0.65	0.65	0.59	234.70 CMS
MIN	0.20	0.26	2.80	5.80	16.75	12.90	4.60	1.16	0.65	0.38	0.32	0.16	0.16 CMS
RUNOFF	0.783	8.173	29.704	62.329	103.844	138.128	93.783	7.208	2.201	1.420	0.896	0.845	449.317 MCM

MOMENTARY PEAK 246.70 CMS, AT 7.02 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 26.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 465.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN 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.S.

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.

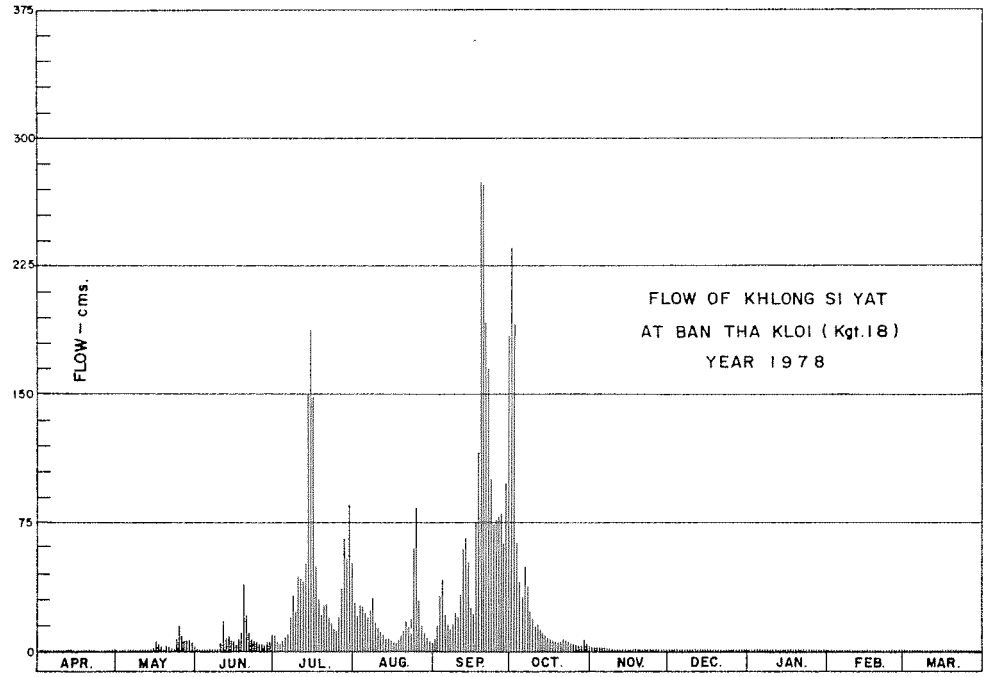
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 100 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.65	1.19	1.99	3.24	1.59	7.04	1.38	0.92	0.78	0.73	0.63	
2	0.70	0.67	1.11	1.72	2.84	2.40	6.67	1.34	0.92	0.78	0.73	0.63	
3	0.68	0.67	1.05	1.58	3.14	3.36	4.51	1.30	0.92	0.78	0.72	0.63	
4	0.68	0.66	1.02	1.76	3.11	3.80	3.75	1.27	0.92	0.79	0.72	0.63	
5	0.67	0.66	1.01	1.98	2.91	2.88	3.33	1.25	0.91	0.78	0.72	0.62	
6	0.66	0.66	1.00	2.07	2.74	2.61	4.04	1.24	0.90	0.77	0.72	0.62	
7	0.66	0.66	1.04	2.89	2.96	2.31	3.61	1.22	0.90	0.78	0.72	0.62	
8	0.65	0.66	1.04	3.39	3.34	2.53	3.05	1.22	0.90	0.77	0.72	0.62	
9	0.64	0.65	1.05	2.92	2.57	2.88	2.71	1.20	0.90	0.78	0.72	0.60	
10	0.64	0.67	1.59	3.81	2.37	2.78	2.46	1.18	0.89	0.78	0.71	0.60	
11	0.65	0.67	2.63	3.80	2.22	3.42	2.48	1.16	0.88	0.78	0.71	0.59	
12	0.70	0.67	1.88	3.75	2.06	4.38	2.32	1.15	0.87	0.77	0.70	0.57	
13	0.76	0.68	1.97	4.15	1.93	4.59	2.15	1.13	0.87	0.80	0.70	0.56	
14	0.74	0.69	1.66	5.30	1.86	4.09	2.01	1.11	0.87	0.83	0.70	0.56	
15	0.72	1.03	1.71	6.65	1.77	3.05	1.91	1.08	0.86	0.82	0.71	0.55	
16	0.70	1.68	1.48	6.25	1.68	2.85	1.83	1.07	0.85	0.81	0.71	0.55	
17	0.70	1.48	1.74	4.06	1.62	4.03	1.75	1.11	0.84	0.79	0.70	0.54	
18	0.69	1.30	2.18	3.35	1.86	5.82	1.70	1.02	0.84	0.77	0.70	0.54	
19	0.69	1.19	3.68	2.74	2.03	7.33	1.66	1.02	0.83	0.77	0.70	0.55	
20	0.68	1.42	2.83	3.15	2.23	7.32	1.76	1.02	0.82	0.76	0.69	0.53	
21	0.68	1.38	2.18	3.16	2.63	6.68	1.84	1.01	0.82	0.76	0.69	0.53	
22	0.68	1.24	1.86	2.77	2.38	6.42	1.71	1.01	0.82	0.75	0.68	0.52	
23	0.68	1.16	1.70	2.57	2.71	5.58	1.64	0.99	0.82	0.74	0.68	0.52	
24	0.68	1.86	1.72	2.37	4.40	4.88	1.58	0.98	0.82	0.74	0.68	0.50	
25	0.68	2.41	1.56	2.32	5.17	4.96	1.52	0.97	0.82	0.73	0.67	0.50	
26	0.68	1.89	1.46	2.76	3.27	5.03	1.47	0.96	0.81	0.73	0.66	0.49	
27	0.68	1.71	1.44	3.57	2.51	5.06	1.45	0.95	0.80	0.72	0.65	0.49	
28	0.68	1.80	1.68	4.59	2.16	4.49	1.51	0.94	0.80	0.72	0.64	0.49	
29	0.66	1.75	1.72	4.23	1.90	5.51	1.61	0.93	0.80	0.72		0.48	
30	0.65	1.55	2.06	5.22	1.73	6.61	1.53	0.92	0.80	0.72		0.48	
31		1.34		4.11	1.64		1.45		0.79	0.73		0.48	
MEAN	0.68	1.15	1.67	3.39	2.55	4.31	2.52	1.10	0.86	0.77	0.70	0.56	
MAX	0.76	2.41	3.68	6.65	5.17	7.33	7.04	1.38	0.92	0.83	0.73	0.63	7.33
MIN	0.64	0.65	1.00	1.58	1.62	1.59	1.45	0.92	0.79	0.72	0.64	0.48	0.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.53 M (A.D), AT 18.00 HOURS, ON SEP 19, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.17 M (A.D)
LEFT BANK ELEVATION 7.47 M (A.D)
RIGHT BANK ELEVATION 6.98 M (A.D), DRAINAGE AREA 951 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	1.45	9.08	29.30	4.90	236.20	2.94	0.18	0.01	0.00	0.00	
2	0.00	0.00	1.05	6.20	21.42	14.50	190.70	2.62	0.18	0.01	0.00	0.00	
3	0.00	0.00	0.75	4.80	27.30	31.70	63.30	2.30	0.18	0.01	0.00	0.00	
4	0.00	0.00	0.60	6.60	26.70	42.50	41.25	2.06	0.18	0.01	0.00	0.00	
5	0.00	0.00	0.55	8.96	22.70	22.14	31.10	1.90	0.14	0.01	0.00	0.00	
6	0.00	0.00	0.50	10.11	19.68	17.65	49.20	1.82	0.10	0.01	0.00	0.00	
7	0.00	0.00	0.70	22.32	23.70	13.24	37.75	1.66	0.10	0.01	0.00	0.00	
8	0.00	0.00	0.70	32.30	31.30	16.45	25.50	1.66	0.10	0.01	0.00	0.00	
9	0.00	0.00	0.75	22.90	17.05	22.14	19.17	1.50	0.10	0.01	0.00	0.00	
10	0.00	0.00	4.90	42.75	14.08	20.36	15.40	1.40	0.09	0.01	0.00	0.00	
11	0.00	0.00	17.95	42.50	12.06	33.00	15.70	1.30	0.08	0.01	0.00	0.00	
12	0.00	0.00	7.80	41.25	9.98	59.40	13.38	1.25	0.07	0.01	0.00	0.00	
13	0.01	0.00	8.84	52.50	8.36	65.70	11.15	1.15	0.07	0.01	0.00	0.00	
14	0.00	0.00	5.60	88.50	7.60	50.70	9.33	1.05	0.07	0.04	0.00	0.00	
15	0.00	0.65	6.10	188.50	6.70	25.50	8.12	0.90	0.06	0.03	0.00	0.00	
16	0.00	5.80	3.82	148.00	5.80	21.60	7.30	0.85	0.05	0.02	0.00	0.00	
17	0.00	3.82	6.40	49.80	5.20	48.90	6.50	1.05	0.05	0.01	0.00	0.00	
18	0.00	2.30	11.54	31.50	7.60	115.80	6.00	0.60	0.05	0.01	0.00	0.00	
19	0.00	1.45	39.50	19.68	9.59	273.90	5.60	0.60	0.04	0.01	0.00	0.00	
20	0.00	3.28	21.24	27.50	12.19	272.60	6.60	0.60	0.03	0.01	0.00	0.00	
21	0.00	2.94	11.54	27.70	17.95	191.80	7.40	0.55	0.03	0.01	0.00	0.00	
22	0.00	1.82	7.60	20.19	14.22	165.00	6.10	0.55	0.03	0.00	0.00	0.00	
23	0.00	1.30	6.00	17.05	19.17	101.50	5.40	0.46	0.03	0.00	0.00	0.00	
24	0.00	7.60	6.20	14.08	60.00	74.40	4.80	0.42	0.03	0.00	0.00	0.00	
25	0.00	14.65	4.60	13.38	83.95	76.80	4.20	0.38	0.03	0.00	0.00	0.00	
26	0.00	7.90	3.64	20.02	29.90	79.05	3.73	0.34	0.02	0.00	0.00	0.00	
27	0.00	6.10	3.46	36.75	16.15	80.10	3.55	0.30	0.01	0.00	0.00	0.00	
28	0.00	7.00	5.80	65.70	11.28	62.70	4.10	0.26	0.01	0.00	0.00	0.00	
29	0.00	6.50	6.20	54.90	8.00	98.00	5.10	0.22	0.01	0.00		0.00	
30	0.00	4.50	9.98	85.70	6.30	184.10	4.30	0.18	0.01	0.00		0.00	
31		2.62		51.30	5.40		3.55		0.01	0.00		0.00	
TOTAL	0.01	80.23	205.76	1262.52	590.63	2286.13	851.48	32.87	2.14	0.27	0.00	0.00	5312.03 CMSDAY
MEAN	0.00	2.59	6.86	40.73	19.05	76.20	27.47	1.10	0.07	0.01	0.00	0.00	14.55 CMS
MAX	0.01	14.65	39.50	188.50	83.95	273.90	236.20	2.94	0.18	0.04	0.00	0.00	273.90 CMS
MIN	0.00	0.00	0.50	4.80	5.20	4.90	3.55	0.18	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.001	6.932	17.778	109.082	51.030	197.521	73.568	2.840	0.185	0.023	0.000	0.000	458.960 MCM

MOMENTARY PEAK 301.20 CMS, AT 7.53 M (A.D), AT 18.00 HOURS, ON SEP 19, 1978

RUNOFF YIELD 15.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 316.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

KHLONG LUANG AT BAN MAI, CHON BURI (KGT.19)

LOCATION — LAT. 13°-23'-17" N., LONG. 101°-20'-40" E., ON LEFT BANK ABOUT 4 KILOMETERS EAST OF KHOK PHO MARKET AND 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 — +20.12 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

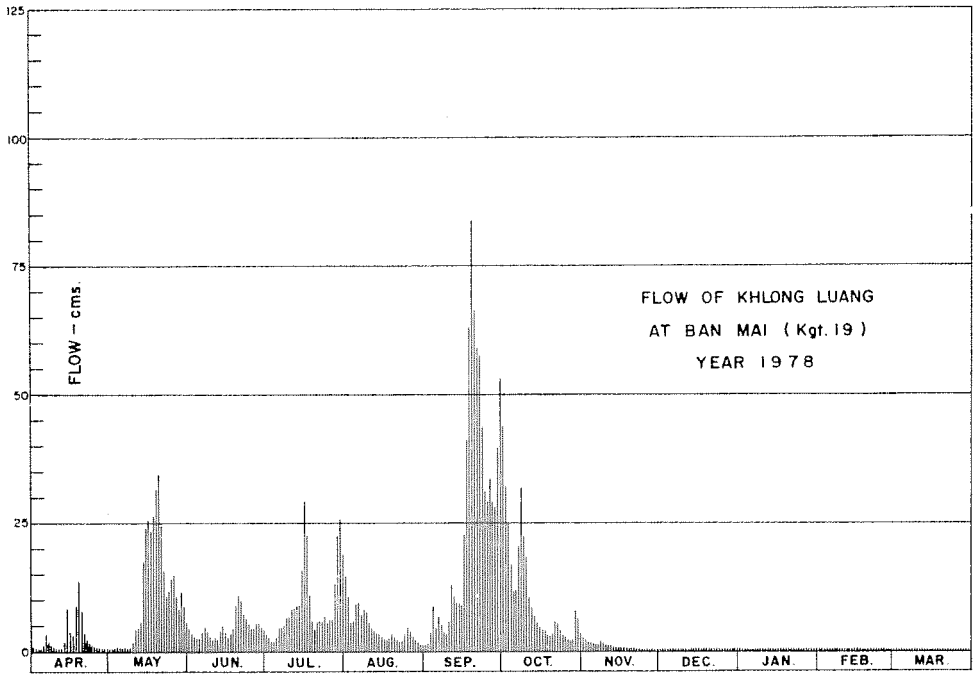
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +25.45 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 353 DISCHARGE MEASUREMENTS MADE DURING 1972-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	21.05	20.93	22.22	21.98	24.61	21.39	25.44	21.82	20.88	20.69	20.65	20.78	
2	20.93	20.97	22.02	21.77	23.60	21.53	25.27	21.70	20.89	20.67	20.67	20.75	
3	20.85	21.07	21.87	21.59	22.59	22.10	24.96	21.58	20.88	20.69	20.65	20.74	
4	20.80	21.13	21.74	21.54	22.71	23.30	24.44	21.53	20.82	20.67	20.65	20.74	
5	21.27	21.00	21.78	21.81	23.37	22.36	23.80	21.47	20.82	20.67	20.65	20.74	
6	22.01	21.02	22.12	22.35	23.45	22.85	23.86	21.41	20.84	20.68	20.62	20.73	
7	21.46	21.00	22.41	22.34	23.01	22.64	24.75	21.37	20.83	20.70	20.62	20.72	
8	21.24	20.89	22.17	22.48	23.21	22.17	25.30	21.62	20.85	20.70	20.64	20.72	
9	21.04	21.10	21.84	22.84	23.07	22.00	24.90	21.49	20.87	20.69	20.66	20.69	
10	20.95	21.41	21.71	22.76	22.55	22.61	24.59	21.36	20.86	20.68	20.64	20.68	
11	20.90	22.23	21.78	23.17	22.32	23.98	23.59	21.33	20.84	20.70	20.64	20.66	
12	20.85	22.33	21.68	23.21	22.17	23.60	23.27	21.33	20.82	20.69	20.64	20.64	
13	21.44	22.61	22.13	23.30	22.07	23.39	22.94	21.26	20.82	20.69	20.64	20.63	
14	23.16	24.50	22.40	23.35	22.02	23.37	22.66	21.19	20.82	20.69	20.63	20.62	
15	22.43	24.99	22.06	24.35	21.92	23.32	22.45	21.16	20.81	20.73	20.68	20.60	
16	21.71	25.06	21.75	25.22	21.81	24.55	22.27	21.13	20.78	20.86	20.65	20.60	
17	21.73	24.94	22.03	24.89	21.69	25.46	22.32	21.11	20.78	20.75	20.65	20.58	
18	23.32	25.10	22.29	23.62	21.80	25.62	22.02	21.10	20.77	20.70	20.65	20.56	
19	24.05	25.30	23.28	22.65	21.99	25.72	21.95	21.07	20.73	20.70	20.64	20.55	
20	23.10	25.36	23.64	22.29	21.88	25.64	22.08	21.10	20.75	20.73	20.64	20.54	
21	22.06	25.02	23.48	22.58	21.68	25.60	22.65	21.06	20.75	20.72	20.62	20.52	
22	21.64	24.30	22.94	22.74	21.60	25.59	22.57	21.05	20.75	20.70	20.61	20.54	
23	21.42	23.59	22.83	22.64	21.68	25.49	22.23	21.02	20.73	20.69	20.60	20.58	
24	21.24	23.80	22.61	22.86	22.08	25.29	21.97	21.02	20.73	20.69	20.58	20.58	
25	21.16	24.15	22.32	22.61	22.41	25.22	21.84	20.98	20.72	20.69	20.58	20.56	
26	21.08	24.22	22.35	22.78	22.21	25.34	21.74	20.97	20.72	20.66	20.59	20.56	
27	21.02	23.59	22.56	22.73	21.92	25.19	21.69	20.95	20.70	20.65	20.63	20.54	
28	20.98	23.11	22.54	24.04	21.67	25.18	21.78	20.93	20.69	20.64	20.72	20.53	
29	20.95	23.72	22.44	24.91	21.52	25.44	23.13	20.91	20.71	20.64		20.52	
30	20.98	23.28	22.28	25.07	21.40	25.56	22.85	20.89	20.70	20.64		20.51	
31		22.57		24.62	21.32		22.09		20.73	20.66		20.50	
MEAN	21.56	23.04	22.31	23.07	22.30	24.05	23.14	21.23	20.79	20.69	20.64	20.62	
MAX	24.05	25.36	23.64	25.22	24.61	25.72	25.44	21.82	20.89	20.86	20.72	20.78	25.72
MIN	20.80	20.89	21.68	21.54	21.32	21.39	21.69	20.89	20.69	20.64	20.58	20.50	20.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.79 M (MSL), AT 21.00 HOURS, ON SEP 18, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.39	4.03	3.18	18.52	1.38	39.52	2.66	0.33	0.15	0.13	0.23	
2	0.39	0.45	3.32	2.51	10.50	1.79	30.70	2.30	0.34	0.14	0.14	0.20	
3	0.30	0.64	2.81	1.97	5.51	3.60	23.52	1.94	0.33	0.15	0.13	0.19	
4	0.25	0.76	2.42	1.82	5.99	8.80	16.80	1.79	0.27	0.14	0.13	0.19	
5	1.07	0.50	2.54	2.63	9.18	4.59	11.75	1.61	0.27	0.14	0.13	0.19	
6	3.29	0.54	3.67	4.55	9.62	6.57	12.17	1.43	0.29	0.14	0.11	0.18	
7	1.58	0.50	4.79	4.51	7.35	5.71	20.30	1.33	0.28	0.15	0.11	0.17	
8	1.00	0.34	3.85	5.07	8.35	3.85	31.60	2.06	0.30	0.15	0.12	0.17	
9	0.58	0.70	2.72	6.53	7.65	3.25	22.50	1.67	0.32	0.15	0.13	0.15	
10	0.42	1.43	2.33	6.19	5.35	5.59	18.30	1.30	0.31	0.14	0.12	0.14	
11	0.35	4.07	2.54	8.15	4.43	13.01	10.44	1.23	0.29	0.15	0.12	0.13	
12	0.30	4.47	2.24	8.35	3.85	10.50	8.65	1.23	0.27	0.15	0.12	0.12	
13	1.52	5.59	3.70	8.80	3.50	9.29	7.00	1.05	0.27	0.15	0.12	0.12	
14	8.10	17.40	4.75	9.07	3.32	9.15	5.79	0.88	0.27	0.15	0.12	0.11	
15	4.87	24.03	3.46	15.95	2.97	9.91	4.95	0.82	0.26	0.18	0.14	0.10	
16	2.33	25.40	2.45	29.20	2.63	17.90	4.23	0.76	0.23	0.31	0.13	0.10	
17	2.39	23.18	3.36	22.35	2.27	41.18	4.43	0.72	0.23	0.20	0.13	0.09	
18	8.91	26.20	4.31	10.62	2.60	62.80	3.32	0.70	0.22	0.15	0.13	0.08	
19	13.50	31.60	8.70	5.75	3.22	84.00	3.07	0.64	0.18	0.15	0.12	0.08	
20	7.80	34.36	10.74	4.31	2.84	66.60	3.53	0.70	0.20	0.18	0.12	0.07	
21	3.46	24.60	9.79	5.47	2.24	59.00	5.75	0.62	0.20	0.17	0.11	0.06	
22	2.12	15.50	7.00	6.11	2.00	57.55	5.43	0.60	0.20	0.15	0.10	0.07	
23	1.46	10.44	6.48	5.71	2.24	43.67	4.07	0.54	0.18	0.15	0.10	0.09	
24	1.00	11.75	5.59	6.62	3.53	31.30	3.14	0.54	0.18	0.15	0.09	0.09	
25	0.82	14.25	4.43	5.59	4.79	29.20	2.72	0.47	0.17	0.15	0.09	0.08	
26	0.66	14.82	4.55	6.27	3.99	33.44	2.42	0.45	0.17	0.13	0.09	0.08	
27	0.54	10.44	5.39	6.07	2.97	28.36	2.27	0.42	0.15	0.13	0.12	0.07	
28	0.47	7.85	5.31	13.43	2.21	28.12	2.54	0.39	0.15	0.12	0.17	0.07	
29	0.42	11.23	4.91	22.67	1.76	39.52	7.95	0.37	0.16	0.12		0.06	
30	0.47	8.70	4.27	25.60	1.40	53.20	6.57	0.34	0.15	0.12		0.06	
31		5.43		18.64	1.20		3.56		0.18	0.13		0.05	
TOTAL	70.97	337.56	136.45	283.69	147.98	771.86	328.99	31.56	7.35	4.74	3.37	3.59	2128.11 CMSDAY
MEAN	2.37	10.89	4.55	9.15	4.77	25.73	10.61	1.05	0.24	0.15	0.12	0.12	5.83 CMS
MAX	13.50	34.36	10.74	29.20	18.52	84.00	39.52	2.66	0.34	0.31	0.17	0.23	84.00 CMS
MIN	0.25	0.34	2.24	1.82	1.20	1.38	2.27	0.34	0.15	0.12	0.09	0.05	0.05 CMS
RUNOFF	6.132	29.165	11.789	24.511	12.785	66.689	28.425	2.727	0.635	0.410	0.291	0.310	183.868 MCM

MOMENTARY PEAK 105.00 CMS, AT 25.79 M (MSL), AT 21.00 HOURS, ON SEP 18, 1978
RUNOFF YIELD 10.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 196.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN RIVER BASIN

PRACHIN 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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

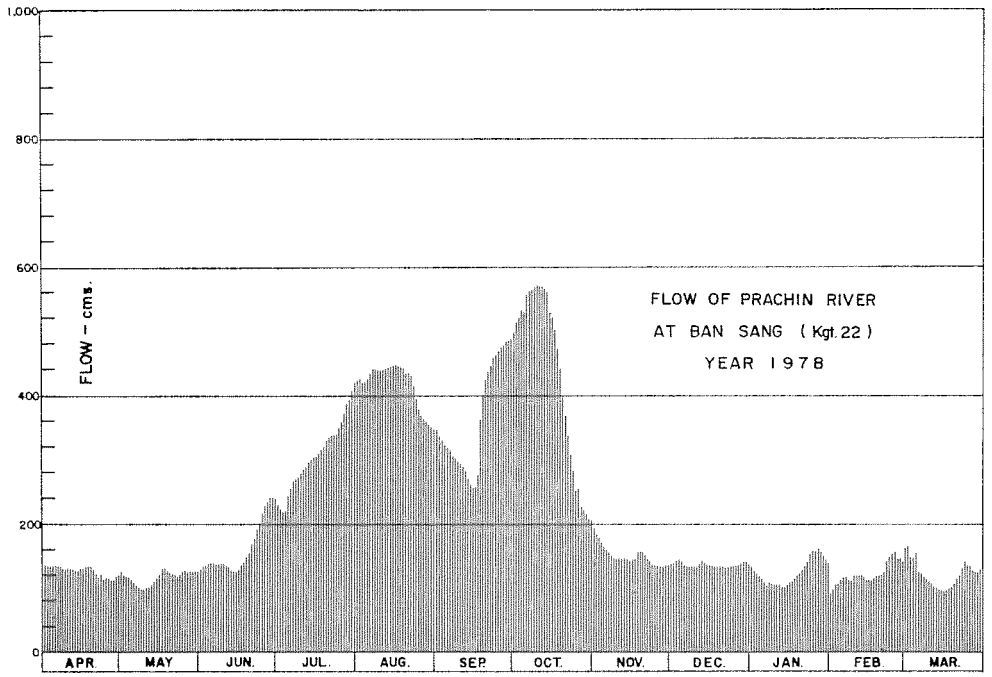
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.15	0.19	0.86	2.00	1.56	2.38	0.65	0.25	0.23	-0.12	0.43	
2	0.21	0.11	0.22	0.80	2.01	1.54	2.45	0.59	0.25	0.16	-0.06	0.46	
3	0.22	0.09	0.24	0.82	1.98	1.51	2.50	0.55	0.29	0.13	0.01	0.33	
4	0.20	0.09	0.25	0.83	1.99	1.47	2.54	0.49	0.33	0.13	0.01	0.31	
5	0.22	0.05	0.27	0.99	2.01	1.44	2.54	0.45	0.27	0.08	0.06	0.38	
6	0.21	0.02	0.27	1.06	2.06	1.42	2.66	0.41	0.24	0.05	0.09	0.16	
7	0.20	-0.02	0.26	1.14	2.09	1.35	2.68	0.37	0.21	-0.02	0.10	0.13	
8	0.18	-0.05	0.25	1.15	2.09	1.35	2.69	0.34	0.21	0.03	0.06	0.11	
9	0.18	-0.07	0.26	1.17	2.08	1.31	2.71	0.32	0.21	0.00	0.04	0.05	
10	0.19	-0.06	0.24	1.21	2.08	1.29	2.71	0.32	0.23	0.00	0.11	0.03	
11	0.19	-0.05	0.23	1.25	2.08	1.26	2.71	0.32	0.23	-0.01	0.11	0.00	
12	0.18	-0.03	0.21	1.26	2.09	1.22	2.71	0.30	0.24	0.00	0.11	-0.03	
13	0.16	0.01	0.18	1.31	2.10	1.13	2.70	0.31	0.28	-0.03	0.11	-0.05	
14	0.17	0.05	0.15	1.33	2.11	1.08	2.63	0.30	0.24	-0.03	0.11	-0.07	
15	0.19	0.09	0.15	1.35	2.12	1.05	2.54	0.29	0.23	-0.01	0.06	-0.08	
16	0.20	0.13	0.19	1.36	2.12	1.10	2.49	0.30	0.22	0.01	0.06	-0.09	
17	0.21	0.18	0.24	1.39	2.11	1.18	2.39	0.31	0.21	0.06	0.05	-0.07	
18	0.22	0.19	0.28	1.43	2.11	1.68	2.24	0.38	0.20	0.09	0.07	-0.05	
19	0.21	0.16	0.34	1.47	2.09	1.91	2.09	0.38	0.21	0.12	0.10	-0.03	
20	0.17	0.14	0.38	1.51	2.06	2.02	1.87	0.37	0.22	0.15	0.11	0.00	
21	0.13	0.13	0.48	1.52	2.06	2.08	1.72	0.35	0.21	0.19	0.12	0.07	
22	0.09	0.13	0.53	1.54	2.04	2.12	1.55	0.33	0.20	0.23	0.17	0.10	
23	0.14	0.11	0.62	1.55	1.96	2.18	1.38	0.27	0.20	0.30	0.29	0.18	
24	0.06	0.13	0.70	1.55	1.82	2.19	1.22	0.23	0.21	0.37	0.37	0.21	
25	0.08	0.16	0.81	1.60	1.76	2.22	1.03	0.22	0.21	0.40	0.38	0.22	
26	0.08	0.17	0.89	1.66	1.71	2.25	0.93	0.22	0.22	0.39	0.30	0.21	
27	0.05	0.15	0.92	1.74	1.68	2.28	0.87	0.22	0.24	0.42	0.32	0.16	
28	0.06	0.16	0.97	1.82	1.65	2.29	0.85	0.21	0.26	0.39	0.28	0.15	
29	0.11	0.15	0.98	1.87	1.63	2.30	0.80	0.22	0.27	0.37		0.15	
30	0.12	0.16	0.97	1.92	1.61	2.33	0.75	0.23	0.27	0.32		0.19	
31		0.16		1.98	1.59		0.72		0.24	0.26		0.22	
MEAN	0.16	0.09	0.42	1.37	1.96	1.67	2.00	0.34	0.24	0.15	0.12	0.12	
MAX	0.23	0.19	0.98	1.98	2.12	2.33	2.71	0.65	0.33	0.42	0.38	0.46	2.71
MIN	0.05	-0.07	0.15	0.80	1.59	1.05	0.72	0.21	0.20	-0.03	-0.12	-0.09	-0.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.71 M (MSL), AT 6.00 HOURS, ON OCT 10, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.5	124.1	129.3	225.0	423.0	340.8	499.0	193.5	137.1	134.5	91.0	162.0	
2	131.9	118.9	133.2	216.0	425.0	337.1	513.0	184.5	137.1	125.4	97.9	166.2	
3	133.2	116.3	135.8	219.0	419.0	331.5	523.2	178.8	142.4	121.5	106.2	148.0	
4	130.6	116.3	137.1	220.5	421.0	324.2	531.6	170.4	148.0	121.5	106.2	145.2	
5	133.2	111.2	139.7	244.6	425.0	319.0	531.6	164.8	139.7	115.0	112.5	155.0	
6	131.9	107.5	139.7	255.8	435.0	315.5	557.6	159.2	135.8	111.2	116.3	125.4	
7	130.6	102.5	138.4	268.6	441.0	303.4	562.0	153.6	131.9	102.5	117.6	121.5	
8	128.0	99.0	137.1	270.2	441.0	303.4	564.2	149.4	131.9	108.7	112.5	118.9	
9	128.0	96.7	138.4	273.4	439.0	296.6	568.6	146.6	131.9	105.0	110.0	111.2	
10	129.3	97.9	135.8	279.9	439.0	293.2	568.6	146.6	134.5	105.0	118.9	108.7	
11	129.3	99.0	134.5	286.5	439.0	288.2	568.6	146.6	134.5	103.7	118.9	105.0	
12	128.0	101.3	131.9	288.2	441.0	281.6	568.6	143.8	135.8	105.0	118.9	101.3	
13	125.4	106.2	128.0	296.6	443.0	267.0	566.4	145.2	141.0	101.3	118.9	99.0	
14	126.7	111.2	124.1	300.0	445.0	259.0	551.0	143.8	135.8	101.3	118.9	96.7	
15	129.3	116.3	124.1	303.4	447.0	254.2	531.6	142.4	134.5	103.7	112.5	95.6	
16	130.6	121.5	129.3	305.1	447.0	262.2	521.1	143.8	133.2	106.2	112.5	94.4	
17	131.9	128.0	135.8	310.2	445.0	275.0	501.0	145.2	131.9	112.5	111.2	96.7	
18	133.2	129.3	141.0	317.2	445.0	363.0	471.0	155.0	130.6	116.3	113.7	99.0	
19	131.9	125.4	149.4	324.2	441.0	405.7	441.0	155.0	131.9	120.2	117.6	101.3	
20	126.7	122.8	155.0	331.5	435.0	427.0	398.1	153.6	133.2	124.1	118.9	105.0	
21	121.5	121.5	169.0	333.4	435.0	439.0	370.4	150.8	131.9	129.3	120.2	113.7	
22	116.3	121.5	176.0	337.1	431.0	447.0	339.0	148.0	130.6	134.5	126.7	117.6	
23	122.8	118.9	189.0	339.0	415.2	459.0	308.5	139.7	130.6	143.8	142.4	128.0	
24	112.5	121.5	201.0	339.0	388.9	461.0	281.6	134.5	131.9	153.6	153.6	131.9	
25	115.0	125.4	217.5	348.2	377.8	467.0	251.0	133.2	131.9	157.8	155.0	133.2	
26	115.0	126.7	229.5	359.3	368.5	473.0	235.5	133.2	133.2	156.4	143.8	131.9	
27	111.2	124.1	234.0	374.1	363.0	479.0	226.5	133.2	135.8	160.6	146.6	125.4	
28	112.5	125.4	241.5	388.9	357.4	481.0	223.5	131.9	138.4	156.4	141.0	124.1	
29	118.9	124.1	243.0	398.1	353.7	483.0	216.0	133.2	139.7	153.6		124.1	
30	120.2	125.4	241.5	407.6	350.0	489.0	208.5	134.5	139.7	146.6		129.3	
31		125.4		419.0	346.3		204.0		135.8	138.4		133.2	
TOTAL	3770.1	3611.3	4859.6	9579.6	12922.8	10925.6	13402.3	4494.0	4192.2	3875.6	3380.4	3748.5	78761.9 CMSDAY
MEAN	125.7	116.5	162.0	309.0	416.9	364.2	432.3	149.8	135.2	125.0	120.7	120.9	215.8 CMS
MAX	134.5	129.3	243.0	419.0	447.0	489.0	568.6	193.5	148.0	160.6	155.0	166.2	568.6 CMS
MIN	111.2	96.7	124.1	216.0	346.3	254.2	204.0	131.9	130.6	101.3	91.0	94.4	91.0 CMS
RUNOFF	325.74	312.02	419.87	827.68	1116.53	943.97	1157.96	388.28	362.21	334.85	292.07	323.87	6805.03 MCM

MOMENTARY PEAK 568.60 CMS, AT 2.71 M (MSL), AT 6.00 HOURS, ON OCT 10, 1978

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

WATER YEAR 1978

PRACHIN RIVER BASIN

PRACHANTAKHAM AT BAN TAKHRO, PRACHIN BURI (KGT.24)

LOCATION — LAT. 14°-10'-34" N., LONG. 101°-35'-30" E., ON RIGHT BANK AT BAN TAKHRO, AMPHOE PRACHANTAKHAM, PRACHIN BURI.

DRAINAGE AREA — 121 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR 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 — OVERBANK FLOW STARTS AT ELEVATION +7.50 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 81 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY PRACHANTAKHAM DAM.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

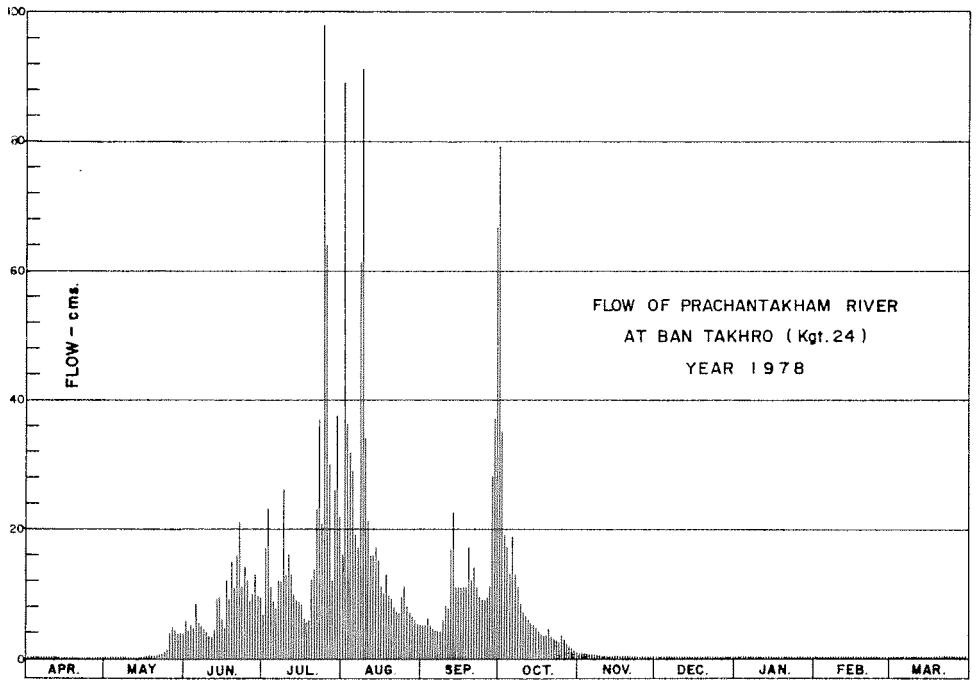
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.26	1.85	1.95	2.70	1.78	5.33	1.10	0.67	0.57	0.55	0.52	
2	0.24	0.26	1.71	2.71	5.62	1.80	3.69	1.09	0.66	0.56	0.55	0.52	
3	0.24	0.26	1.79	3.07	3.74	1.89	2.88	1.07	0.66	0.56	0.55	0.52	
4	0.25	0.26	1.75	2.35	3.57	1.78	2.74	1.04	0.65	0.56	0.55	0.55	
5	0.26	0.27	2.10	2.12	3.39	1.74	2.46	1.02	0.65	0.55	0.54	0.55	
6	0.25	0.27	1.85	2.11	2.88	1.74	2.83	1.00	0.65	0.55	0.54	0.54	
7	0.25	0.27	1.78	2.44	2.74	1.70	2.44	0.98	0.64	0.55	0.54	0.54	
8	0.25	0.27	1.72	2.40	4.08	1.69	2.32	0.96	0.63	0.55	0.54	0.54	
9	0.25	0.26	1.68	3.25	5.68	1.87	2.07	0.94	0.62	0.55	0.54	0.54	
10	0.25	0.26	1.64	2.50	3.63	2.07	1.98	0.92	0.62	0.57	0.53	0.54	
11	0.25	0.27	1.59	2.70	2.93	2.04	1.94	0.91	0.62	0.57	0.53	0.54	
12	0.25	0.27	1.72	2.48	2.69	2.75	1.89	0.88	0.61	0.57	0.53	0.54	
13	0.25	0.27	2.15	2.21	2.68	3.07	1.82	0.86	0.61	0.59	0.53	0.54	
14	0.25	0.32	2.18	2.15	2.76	2.32	1.77	0.84	0.61	0.59	0.53	0.54	
15	0.25	0.48	1.86	2.14	2.60	2.32	1.74	0.82	0.60	0.58	0.53	0.54	
16	0.25	0.47	1.73	2.10	2.34	2.32	1.69	0.81	0.60	0.58	0.53	0.54	
17	0.25	0.71	2.43	1.91	2.24	2.31	1.64	0.80	0.60	0.58	0.53	0.54	
18	0.25	0.84	2.16	1.84	2.47	2.35	1.62	0.80	0.60	0.58	0.53	0.54	
19	0.25	0.84	2.63	1.88	2.20	2.74	1.63	0.79	0.60	0.57	0.53	0.54	
20	0.25	0.85	2.33	2.38	2.17	2.39	1.74	0.79	0.60	0.56	0.53	0.54	
21	0.25	0.95	2.64	2.52	2.06	2.54	1.62	0.78	0.59	0.56	0.53	0.54	
22	0.25	0.95	2.96	3.08	1.99	2.33	1.55	0.75	0.59	0.56	0.53	0.54	
23	0.27	1.04	2.30	3.80	1.97	2.20	1.52	0.74	0.59	0.56	0.53	0.54	
24	0.28	1.11	2.55	2.95	2.20	2.16	1.49	0.75	0.58	0.56	0.53	0.54	
25	0.28	1.23	2.37	5.86	2.29	2.15	1.65	0.72	0.58	0.56	0.53	0.54	
26	0.28	1.65	2.14	4.83	2.07	2.18	1.53	0.71	0.58	0.55	0.53	0.54	
27	0.27	1.76	2.23	3.45	1.98	2.29	1.44	0.70	0.58	0.55	0.53	0.54	
28	0.27	1.72	2.48	2.40	1.93	3.35	1.36	0.70	0.58	0.55	0.52	0.54	
29	0.27	1.65	2.20	3.24	1.88	3.78	1.28	0.68	0.58	0.55		0.54	
30	0.27	1.66	2.19	3.81	1.81	4.96	1.19	0.67	0.58	0.55		0.54	
31		1.65		3.02	1.79		1.14		0.58	0.55		0.54	
MEAN	0.26	0.75	2.09	2.76	2.74	2.35	2.00	0.85	0.61	0.56	0.53	0.54	
MAX	0.28	1.76	2.96	5.86	5.68	4.96	5.33	1.10	0.67	0.59	0.55	0.55	5.86
MIN	0.24	0.26	1.59	1.84	1.79	1.69	1.14	0.67	0.58	0.55	0.52	0.52	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.46 M (A.D), AT 5.00 HOURS, ON JUL 25, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.16 M (A.D)

LEFT BANK ELEVATION — 7.85 M (A.D)

RIGHT BANK ELEVATION — 8.28 M (A.D), DRAINAGE AREA — 121 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.03	5.70	6.75	16.50	5.00	79.29	0.85	0.23	0.18	0.17	0.16	
2	0.02	0.03	4.30	16.66	89.02	5.20	34.99	0.82	0.23	0.18	0.17	0.16	
3	0.02	0.03	5.10	22.76	36.08	6.10	19.46	0.77	0.23	0.18	0.17	0.16	
4	0.03	0.03	4.70	11.55	32.50	5.00	17.14	0.70	0.22	0.18	0.17	0.17	
5	0.03	0.03	8.45	8.68	28.90	4.60	12.98	0.65	0.22	0.17	0.17	0.17	
6	0.03	0.03	5.70	8.56	19.46	4.60	18.61	0.60	0.22	0.17	0.17	0.17	
7	0.03	0.03	5.00	12.72	17.14	4.20	12.72	0.56	0.22	0.17	0.17	0.17	
8	0.03	0.03	4.40	12.20	43.64	4.11	11.16	0.52	0.21	0.17	0.17	0.17	
9	0.03	0.03	4.02	26.15	91.18	5.90	8.10	0.48	0.21	0.17	0.17	0.17	
10	0.03	0.03	3.66	13.50	33.73	8.10	7.08	0.44	0.21	0.18	0.16	0.17	
11	0.03	0.03	3.23	16.50	20.31	7.76	6.64	0.42	0.21	0.18	0.16	0.17	
12	0.03	0.03	4.40	13.24	16.35	17.30	6.10	0.38	0.20	0.18	0.16	0.17	
13	0.03	0.03	9.02	9.73	16.20	22.76	5.40	0.36	0.20	0.19	0.16	0.17	
14	0.03	0.06	9.37	9.02	17.46	11.16	4.90	0.34	0.20	0.19	0.16	0.17	
15	0.03	0.14	5.80	8.91	15.00	11.16	4.60	0.32	0.20	0.19	0.16	0.17	
16	0.03	0.13	4.50	8.45	11.42	11.16	4.11	0.31	0.20	0.19	0.16	0.17	
17	0.03	0.25	12.59	6.31	10.12	11.03	3.66	0.30	0.20	0.19	0.16	0.17	
18	0.03	0.34	9.14	5.60	13.11	11.55	3.48	0.30	0.20	0.19	0.16	0.17	
19	0.03	0.34	15.45	6.00	9.60	17.14	3.57	0.29	0.20	0.18	0.16	0.17	
20	0.03	0.35	11.29	11.94	9.25	12.07	4.60	0.29	0.20	0.18	0.16	0.17	
21	0.03	0.50	15.60	13.80	7.99	14.10	3.48	0.29	0.19	0.18	0.16	0.17	
22	0.03	0.50	20.82	22.94	7.19	11.29	2.95	0.27	0.19	0.18	0.16	0.17	
23	0.03	0.70	10.90	37.40	6.97	9.60	2.74	0.27	0.19	0.18	0.16	0.17	
24	0.04	0.88	14.25	20.65	9.60	9.14	2.55	0.27	0.19	0.18	0.16	0.17	
25	0.04	1.32	11.81	97.66	10.77	9.02	3.75	0.26	0.19	0.18	0.16	0.17	
26	0.04	3.75	8.91	63.70	8.10	9.37	2.81	0.25	0.19	0.17	0.16	0.17	
27	0.03	4.80	9.99	30.10	7.08	10.77	2.30	0.25	0.19	0.17	0.16	0.17	
28	0.03	4.40	13.24	12.20	6.53	28.10	1.90	0.25	0.19	0.17	0.16	0.17	
29	0.03	3.75	9.60	25.96	6.00	36.96	1.52	0.24	0.19	0.17		0.17	
30	0.03	3.84	9.48	37.62	5.30	67.66	1.16	0.23	0.19	0.17		0.17	
31		3.75		21.86	5.10		0.99		0.19	0.17		0.17	
TOTAL	0.90	30.19	260.42	619.12	627.60	391.91	294.74	12.28	6.30	5.53	4.57	5.24	2258.80 CMSDAY
MEAN	0.03	0.97	8.68	19.97	20.25	13.06	9.51	0.41	0.20	0.18	0.16	0.17	6.19 CMS
MAX	0.04	4.80	20.82	97.66	91.18	67.66	79.29	0.85	0.23	0.19	0.17	0.17	97.66 CMS
MIN	0.02	0.03	3.23	5.60	5.10	4.11	0.99	0.23	0.19	0.17	0.16	0.16	0.02 CMS
RUNOFF	0.078	2.608	22.500	53.492	54.225	33.861	25.465	1.061	0.544	0.478	0.395	0.453	195.160 MCM

MOMENTARY PEAK 280.00 CMS, AT 8.46 M (A.D), AT 5.00 HOURS, ON JUL 25, 1978

RUNOFF YIELD 51.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2314.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRACHIN 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.S.

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 +4.80 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 125 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS STREAM GAGING BEGAN ON MAY 1, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

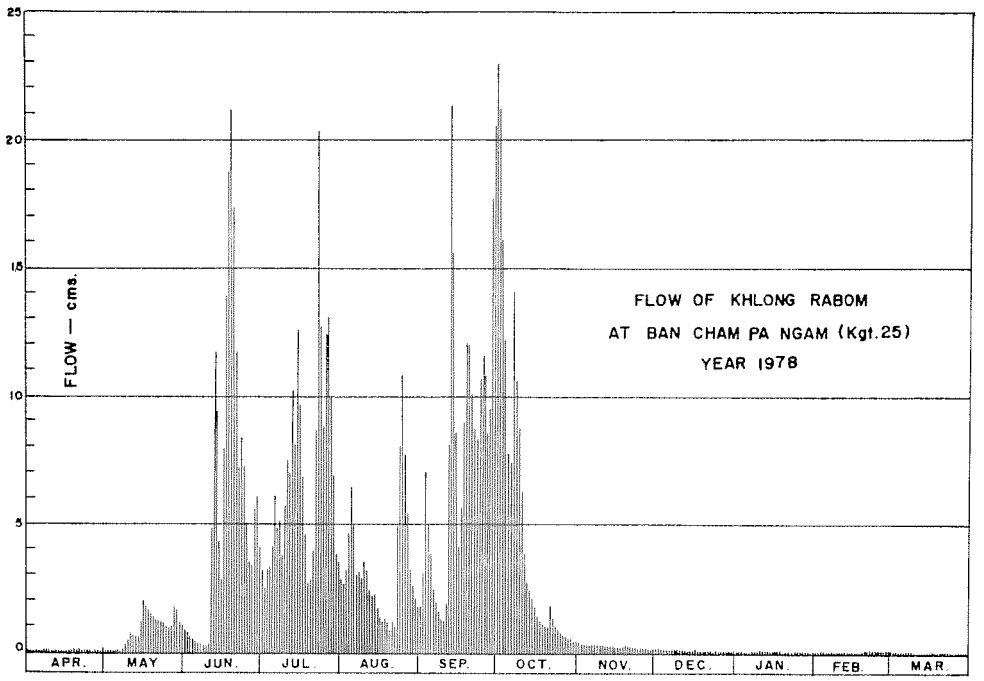
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.33	1.08	2.25	2.06	1.68	4.98	0.72	0.43	0.33	0.30	0.29	
2	*******	0.34	0.97	1.93	2.01	2.24	4.85	0.69	0.43	0.33	0.30	0.29	
3	*******	0.36	0.87	2.20	2.32	3.21	4.36	0.67	0.42	0.32	0.30	0.29	
4	*******	0.37	0.74	2.22	2.98	2.68	3.80	0.66	0.42	0.32	0.29	0.29	
5	*******	0.38	0.69	2.58	3.11	2.39	3.33	0.65	0.41	0.32	0.29	0.29	
6	*******	0.38	0.66	3.01	2.28	1.94	3.33	0.64	0.41	0.32	0.29	0.29	
7	*******	0.40	0.63	2.68	2.10	1.74	4.27	0.62	0.40	0.32	0.29	0.30	
8	*******	0.47	0.57	2.76	2.17	1.57	3.91	0.64	0.40	0.33	0.29	0.30	
9	*******	0.68	0.54	2.35	2.08	1.41	3.31	0.62	0.40	0.34	0.29	0.30	
10	*******	0.88	0.61	3.04	2.27	1.32	2.76	0.61	0.40	0.34	0.29	0.30	
11	*******	1.06	2.49	3.33	2.16	1.84	2.27	0.59	0.39	0.34	0.29	0.31	
12	*******	0.99	3.53	3.21	1.89	4.36	1.97	0.58	0.39	0.34	0.30	0.31	
13	*******	0.90	4.02	3.84	1.82	4.87	1.91	0.57	0.39	0.34	0.30	0.31	
14	*******	0.99	2.59	3.46	1.85	4.01	1.77	0.56	0.39	0.35	0.30	0.31	
15	*******	1.38	2.02	4.13	1.64	3.03	1.58	0.55	0.38	0.36	0.30	0.31	
16	*******	1.75	3.48	3.59	1.47	2.49	1.45	0.52	0.38	0.34	0.30	0.31	
17	*******	1.61	4.27	2.98	1.33	3.11	1.32	0.52	0.38	0.34	0.30	0.30	
18	*******	1.54	4.72	2.38	1.36	3.91	1.25	0.51	0.37	0.33	0.30	0.30	
19	*******	1.45	4.86	1.97	1.36	4.07	1.15	0.51	0.37	0.33	0.30	0.30	
20	*******	1.35	4.45	2.09	1.13	4.06	1.23	0.50	0.37	0.33	0.30	0.30	
21	*******	1.33	4.02	2.51	1.35	3.79	1.66	0.49	0.37	0.33	0.30	0.30	
22	*******	1.31	3.30	3.76	1.26	3.59	1.41	0.48	0.36	0.32	0.29	0.30	
23	*******	1.28	3.51	4.80	2.51	3.47	1.22	0.47	0.35	0.32	0.29	0.30	
24	*******	1.24	3.21	3.99	3.55	3.87	1.11	0.47	0.35	0.32	0.29	0.30	
25	*******	1.19	2.62	3.61	3.91	3.95	1.02	0.46	0.35	0.31	0.29	0.30	
26	*******	1.15	2.26	4.15	3.29	4.01	0.96	0.45	0.34	0.31	0.29	0.31	
27	*******	1.37	2.21	4.18	2.78	3.56	0.90	0.45	0.34	0.31	0.29	0.31	
28	*******	1.64	2.89	3.63	2.24	3.88	0.86	0.44	0.34	0.31	0.29	0.31	
29	*******	1.57	3.01	2.91	1.94	4.63	0.81	0.44	0.33	0.30		0.31	
30	*******	1.32	2.54	2.43	1.78	4.80	0.77	0.43	0.33	0.30		0.31	
31		1.23		2.27	1.60		0.74		0.33	0.30		0.31	
MEAN	*******	1.04	2.45	3.04	2.12	3.18	2.14	0.55	0.38	0.33	0.29	0.30	
MAX	*******	1.75	4.86	4.80	3.91	4.87	4.98	0.72	0.43	0.36	0.30	0.31	4.98
MIN	*******	0.33	0.54	1.93	1.13	1.32	0.74	0.43	0.33	0.30	0.29	0.29	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.00 M (A.D), AT 6.00 HOURS, ON SEP 5, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.08 M (A.D)

LEFT BANK ELEVATION 5.65 M (A.D)

RIGHT BANK ELEVATION 5.54 M (A.D), DRAINAGE AREA 243 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.06	0.82	3.45	2.88	1.86	22.90	0.42	0.13	0.06	0.05	0.04	
2	*******	0.07	0.67	2.49	2.73	3.42	21.00	0.39	0.13	0.06	0.05	0.04	
3	*******	0.08	0.57	3.30	3.66	6.94	14.90	0.37	0.12	0.06	0.05	0.04	
4	*******	0.08	0.44	3.36	6.02	4.82	10.00	0.36	0.12	0.06	0.04	0.04	
5	*******	0.09	0.39	4.44	6.54	3.87	7.45	0.35	0.11	0.06	0.04	0.04	
6	*******	0.09	0.36	6.14	3.54	2.52	7.45	0.34	0.11	0.06	0.04	0.04	
7	*******	0.10	0.33	4.82	3.00	1.98	14.00	0.32	0.10	0.06	0.04	0.05	
8	*******	0.17	0.27	5.14	3.21	1.64	10.78	0.34	0.10	0.06	0.04	0.05	
9	*******	0.38	0.24	3.75	2.94	1.32	7.35	0.32	0.10	0.07	0.04	0.05	
10	*******	0.58	0.31	6.26	3.51	1.18	5.14	0.31	0.10	0.07	0.04	0.05	
11	*******	0.79	4.17	7.45	3.18	2.22	3.51	0.29	0.09	0.07	0.04	0.05	
12	*******	0.69	8.45	6.94	2.37	14.90	2.61	0.28	0.09	0.07	0.05	0.05	
13	*******	0.60	11.66	10.28	2.16	21.28	2.43	0.27	0.09	0.07	0.05	0.05	
14	*******	0.69	4.47	8.10	2.25	11.58	2.04	0.26	0.09	0.07	0.05	0.05	
15	*******	1.27	2.76	12.60	1.78	6.22	1.66	0.25	0.09	0.08	0.05	0.05	
16	*******	2.00	8.20	8.75	1.44	4.17	1.40	0.22	0.09	0.07	0.05	0.05	
17	*******	1.72	14.00	6.02	1.19	6.54	1.18	0.22	0.09	0.07	0.05	0.05	
18	*******	1.58	19.26	3.84	1.24	10.78	1.07	0.21	0.08	0.06	0.05	0.05	
19	*******	1.40	21.14	2.61	1.24	12.06	0.92	0.21	0.08	0.06	0.05	0.05	
20	*******	1.22	15.90	2.97	0.89	11.98	1.04	0.20	0.08	0.06	0.05	0.05	
21	*******	1.19	11.66	4.23	1.22	9.94	1.82	0.19	0.08	0.06	0.05	0.05	
22	*******	1.16	7.30	9.76	1.09	8.75	1.32	0.18	0.08	0.06	0.04	0.05	
23	*******	1.12	8.35	20.30	4.23	8.15	1.03	0.17	0.07	0.06	0.04	0.05	
24	*******	1.06	6.94	11.42	8.55	10.49	0.86	0.17	0.07	0.06	0.04	0.05	
25	*******	0.98	4.58	8.86	10.78	11.10	0.73	0.16	0.07	0.05	0.04	0.05	
26	*******	0.92	3.48	12.80	7.26	11.58	0.66	0.15	0.07	0.05	0.04	0.05	
27	*******	1.25	3.33	13.10	5.22	8.60	0.60	0.15	0.07	0.05	0.04	0.05	
28	*******	1.78	5.66	8.98	3.42	10.56	0.56	0.14	0.07	0.05	0.04	0.05	
29	*******	1.64	6.14	5.74	2.52	18.09	0.51	0.14	0.06	0.05		0.05	
30	*******	1.18	4.32	3.99	2.06	20.30	0.47	0.13	0.06	0.05		0.05	
31		1.04		3.51	1.70		0.44		0.06	0.05		0.05	
TOTAL	*******	26.98	176.17	215.40	103.82	248.84	147.83	7.51	2.75	1.89	1.25	1.49	******** CMSDAY
MEAN	*******	0.87	5.87	6.95	3.35	8.29	4.77	0.25	0.09	0.06	0.04	0.05	******* CMS
MAX	*******	2.00	21.14	20.30	10.78	21.28	22.90	0.42	0.13	0.08	0.05	0.05	22.90 CMS
MIN	*******	0.06	0.24	2.49	0.89	1.18	0.44	0.13	0.06	0.05	0.04	0.04	******* CMS
RUNOFF	*******	2.331	15.221	18.611	8.970	21.500	12.772	0.649	0.238	0.163	0.108	0.129	******** MCM

MOMENTARY PEAK 23.20 CMS, AT 5.00 M (A.D), AT 6.00 HOURS, ON SEP 5, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 95.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

RAYONG RIVER BASIN

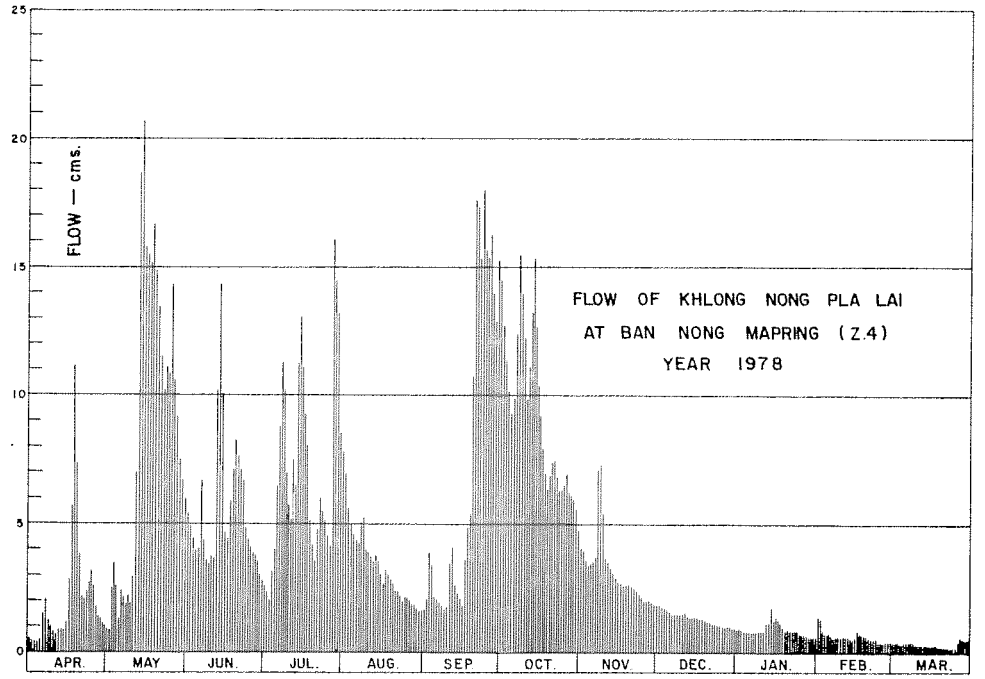
KHLONG NONG PLA LAI AT BAN NONG MAPRING, RAYONG (Z.4)

LOCATION	LAT. 12°-54'-40" N., LONG. 101°-17'-37" E., ON LEFT BANK AT BAN NONG MAPRING, AMPHOE BAN KHAI, RAYONG.
DRAINAGE AREA	429 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.S.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+5.270 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
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 +2.50 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 326 DISCHARGE MEASUREMENTS MADE DURING 1972-1974.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.39	1.48	0.86	1.90	0.60	2.77	1.19	0.67	0.40	0.55	0.21	
2	0.22	0.38	1.34	0.78	1.72	0.60	2.65	1.16	0.65	0.39	0.50	0.20	
3	0.20	0.91	1.24	0.70	1.48	1.00	2.48	1.08	0.64	0.37	0.35	0.20	
4	0.19	1.05	1.17	1.01	1.37	1.15	2.24	1.05	0.62	0.36	0.33	0.19	
5	0.20	0.75	1.10	1.08	1.29	0.79	2.14	1.07	0.59	0.36	0.34	0.19	
6	0.52	0.50	1.67	1.50	1.27	0.74	2.21	1.03	0.58	0.36	0.33	0.21	
7	0.71	0.82	1.34	2.02	1.21	0.74	2.58	1.15	0.58	0.35	0.31	0.21	
8	0.52	0.67	1.10	2.43	1.36	0.65	2.86	1.77	0.57	0.35	0.31	0.21	
9	0.39	0.75	1.05	2.20	1.40	0.64	2.73	1.78	0.57	0.35	0.29	0.20	
10	0.37	0.69	1.15	1.56	1.17	0.63	2.64	1.26	0.56	0.35	0.29	0.19	
11	0.33	0.92	1.07	1.40	1.12	0.90	2.22	1.11	0.56	0.40	0.29	0.18	
12	0.37	1.30	2.21	1.81	1.10	1.19	2.42	1.06	0.55	0.49	0.28	0.17	
13	0.35	2.40	2.36	1.64	1.07	0.88	2.77	1.01	0.55	0.48	0.28	0.16	
14	0.38	3.17	2.76	2.25	1.10	0.79	2.85	0.96	0.54	0.67	0.27	0.16	
15	0.35	3.25	2.19	2.65	1.02	0.72	2.60	0.92	0.54	0.48	0.27	0.16	
16	0.53	2.87	1.31	2.40	0.89	0.67	2.19	0.89	0.53	0.54	0.34	0.15	
17	1.44	2.86	1.25	2.18	0.88	0.95	1.92	0.89	0.52	0.48	0.35	0.15	
18	2.40	2.83	1.63	1.90	1.00	1.30	1.74	0.87	0.51	0.43	0.32	0.15	
19	1.91	2.96	1.80	1.31	0.94	1.44	1.64	0.87	0.50	0.41	0.31	0.14	
20	1.43	2.83	1.94	1.19	0.90	1.82	1.70	0.86	0.49	0.40	0.29	0.14	
21	0.76	2.68	1.81	1.06	0.82	3.03	1.81	0.84	0.48	0.39	0.27	0.14	
22	0.70	2.56	1.75	1.37	0.82	3.01	1.82	0.83	0.47	0.38	0.26	0.14	
23	0.79	2.28	1.66	1.57	0.76	2.85	1.70	0.80	0.46	0.37	0.25	0.13	
24	0.88	2.40	1.32	1.47	0.72	3.06	1.61	0.78	0.45	0.36	0.24	0.13	
25	0.98	2.38	1.24	1.37	0.76	2.89	1.63	0.74	0.44	0.34	0.23	0.13	
26	0.79	2.76	1.16	1.27	0.73	2.85	1.65	0.71	0.44	0.33	0.22	0.13	
27	0.64	2.32	1.14	1.20	0.71	2.92	1.73	0.70	0.43	0.32	0.22	0.28	
28	0.53	2.08	1.11	2.90	0.68	2.78	1.61	0.70	0.42	0.31	0.21	0.25	
29	0.48	1.78	0.98	2.80	0.66	2.63	1.56	0.69	0.42	0.31		0.24	
30	0.43	1.63	0.94	2.65	0.61	2.84	1.55	0.68	0.41	0.30		0.24	
31		1.55		2.01	0.60		1.32		0.41	0.30		0.23	
MEAN	0.67	1.83	1.48	1.69	1.03	1.57	2.11	0.98	0.52	0.39	0.30	0.18	
MAX	2.40	3.25	2.76	2.90	1.90	3.06	2.86	1.78	0.67	0.67	0.55	0.28	3.25
MIN	0.19	0.38	0.94	0.70	0.60	0.60	1.32	0.68	0.41	0.30	0.21	0.13	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.30 M (A.D), AT 15.00 HOURS, ON MAY 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.25 M (A.D)
LEFT BANK ELEVATION 3.02 M (A.D)
RIGHT BANK ELEVATION 4.02 M (A.D), DRAINAGE AREA 429 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.92	5.60	2.64	7.90	1.65	14.37	4.15	1.89	0.95	1.47	0.42	
2	0.45	0.89	4.90	2.32	6.91	1.65	13.10	4.00	1.82	0.92	1.30	0.40	
3	0.40	2.84	4.40	2.00	5.60	3.20	11.65	3.60	1.79	0.86	0.80	0.40	
4	0.38	3.45	4.05	3.25	5.05	3.95	9.96	3.45	1.72	0.83	0.74	0.38	
5	0.40	2.20	3.70	3.60	4.65	2.36	9.31	3.55	1.61	0.83	0.77	0.38	
6	1.37	1.30	4.63	5.70	4.55	2.16	9.76	3.35	1.58	0.83	0.74	0.42	
7	2.04	2.48	4.90	8.57	4.25	2.16	12.44	3.95	1.58	0.80	0.68	0.42	
8	1.37	1.89	3.70	11.27	5.00	1.82	15.42	7.18	1.54	0.80	0.68	0.42	
9	0.92	2.20	3.45	9.70	5.20	1.79	13.93	7.24	1.54	0.80	0.62	0.40	
10	0.86	1.96	3.95	6.03	4.05	1.75	13.00	4.50	1.51	0.80	0.62	0.38	
11	0.74	2.88	3.55	5.20	3.80	2.80	9.83	3.75	1.51	0.95	0.62	0.36	
12	0.86	4.70	9.76	7.40	3.70	4.15	11.20	3.50	1.47	1.26	0.60	0.34	
13	0.80	11.05	10.77	6.47	3.55	2.72	14.37	3.25	1.47	1.23	0.60	0.32	
14	0.89	19.48	14.26	10.02	3.70	2.36	15.30	3.04	1.44	1.89	0.57	0.32	
15	0.80	20.65	9.63	13.10	3.30	2.08	12.60	2.88	1.44	1.23	0.57	0.32	
16	1.40	15.54	4.75	11.05	2.76	1.89	9.63	2.76	1.40	1.44	0.77	0.30	
17	5.40	15.42	4.45	9.57	2.72	3.00	8.01	2.76	1.37	1.23	0.80	0.30	
18	11.05	15.06	6.41	7.90	3.20	4.70	7.02	2.68	1.33	1.05	0.71	0.30	
19	7.95	16.68	7.35	4.75	2.96	5.40	6.47	2.68	1.30	0.98	0.68	0.28	
20	5.35	15.06	8.12	4.15	2.80	7.46	6.80	2.64	1.26	0.95	0.62	0.28	
21	2.24	13.40	7.40	3.50	2.48	17.59	7.40	2.56	1.23	0.92	0.57	0.28	
22	2.00	12.28	7.07	5.05	2.48	17.33	7.46	2.52	1.19	0.89	0.55	0.28	
23	2.36	10.22	6.58	6.08	2.24	15.30	6.80	2.40	1.16	0.86	0.52	0.26	
24	2.72	11.05	4.80	5.55	2.08	17.98	6.30	2.32	1.12	0.83	0.50	0.26	
25	3.12	10.91	4.40	5.05	2.24	15.78	6.41	2.16	1.09	0.77	0.47	0.26	
26	2.36	14.26	4.00	4.55	2.12	15.30	6.52	2.04	1.09	0.74	0.45	0.26	
27	1.79	10.49	3.90	4.20	2.04	16.16	6.96	2.00	1.05	0.71	0.45	0.60	
28	1.40	8.93	3.75	15.90	1.93	14.48	6.30	2.00	1.02	0.68	0.42	0.52	
29	1.23	7.24	3.12	14.70	1.86	12.90	6.03	1.96	1.02	0.68		0.50	
30	1.05	6.41	2.96	13.10	1.68	15.18	5.97	1.93	0.98	0.65		0.50	
31		5.97		8.51	1.65		4.80		0.98	0.65		0.47	
TOTAL	64.20	267.81	172.31	220.88	108.45	217.05	295.12	96.80	42.50	29.01	18.89	11.33	1544.35 CMSDAY
MEAN	2.14	8.64	5.74	7.13	3.50	7.23	9.52	3.23	1.37	0.94	0.67	0.37	4.23 CMS
MAX	11.05	20.65	14.26	15.90	7.90	17.98	15.42	7.24	1.89	1.89	1.47	0.60	20.65 CMS
MIN	0.38	0.89	2.96	2.00	1.65	1.65	4.80	1.93	0.98	0.65	0.42	0.26	0.26 CMS
RUNOFF	5.547	23.139	14.888	19.084	9.370	18.753	25.498	8.364	3.672	2.506	1.632	0.979	133.432 MCM

MOMENTARY PEAK 21.40 CMS, AT 3.30 M (A.D), AT 15.00 HOURS, ON MAY 14, 1978

RUNOFF YIELD 9.86 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 49.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

RAYONG RIVER BASIN

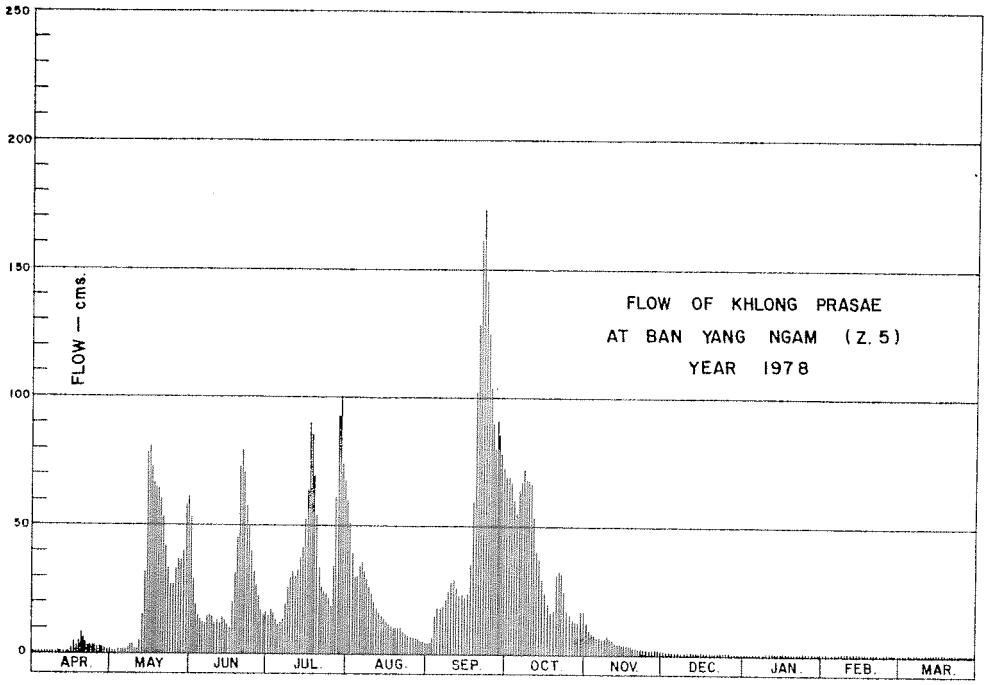
KHLONG PRASAE AT BAN YANG NGAM, RAYONG (Z.5)

LOCATION	LAT. 12°-53'-03" N., LONG. 101°-35'-58" E., ON LEFT BANK AT BAN YANG NGAM, AMPHOE KLAENG, RAYONG.
DRAINAGE AREA	1,164 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.S.
LOCATION	INFRONT OF 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 +4.352 M.(A.D.) AND IS INCLUDED
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 103 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.77	0.95	5.17	2.79	5.47	1.67	5.78	2.58	1.14	0.87	0.78	0.70	
2	0.76	0.92	3.90	2.90	5.11	1.79	5.78	2.29	1.13	0.86	0.77	0.70	
3	0.77	0.99	2.99	2.89	4.42	2.11	5.75	2.15	1.11	0.86	0.77	0.70	
4	0.75	1.04	2.71	2.67	3.90	2.77	5.64	2.03	1.10	0.85	0.76	0.70	
5	0.73	1.00	2.57	2.52	3.92	2.99	5.31	1.96	1.08	0.85	0.76	0.69	
6	0.72	1.03	2.43	2.45	4.24	3.02	5.56	1.89	1.07	0.84	0.75	0.69	
7	0.71	1.08	2.50	2.63	4.28	3.28	5.74	1.94	1.06	0.83	0.75	0.69	
8	0.73	1.27	2.73	2.97	3.95	3.26	5.85	1.88	1.06	0.83	0.75	0.69	
9	0.72	1.57	2.73	3.67	3.65	3.47	5.75	1.94	1.04	0.83	0.75	0.69	
10	0.74	1.34	2.48	3.97	3.51	3.70	5.76	1.87	1.03	0.83	0.74	0.69	
11	0.80	1.16	2.61	4.01	3.19	3.83	5.71	1.76	1.02	0.83	0.74	0.69	
12	0.78	1.23	2.52	3.93	3.01	3.57	5.27	1.70	1.01	0.83	0.74	0.69	
13	0.76	2.14	2.67	4.11	2.87	3.37	4.64	1.66	1.00	0.84	0.74	0.68	
14	0.74	3.99	2.70	4.58	2.77	3.45	4.32	1.61	0.98	0.84	0.73	0.68	
15	0.77	5.95	2.52	4.82	2.68	3.33	3.88	1.55	0.98	0.83	0.74	0.68	
16	1.33	6.05	2.30	5.46	2.57	3.25	3.49	1.50	0.97	0.83	0.74	0.68	
17	1.55	5.80	2.74	6.23	2.46	3.75	3.18	1.48	0.96	0.83	0.73	0.67	
18	1.39	5.67	3.90	6.16	2.37	4.50	2.95	1.46	0.95	0.85	0.72	0.67	
19	1.82	5.66	4.83	5.76	2.32	5.77	2.81	1.42	0.94	0.85	0.72	0.67	
20	2.13	5.58	5.88	5.08	2.27	6.61	3.81	1.40	0.94	0.84	0.72	0.67	
21	1.72	5.37	6.01	3.86	2.33	7.13	3.95	1.37	0.94	0.84	0.72	0.67	
22	1.49	4.86	5.71	3.64	2.30	7.31	4.05	1.34	0.93	0.82	0.72	0.67	
23	1.37	4.20	5.27	3.48	2.14	7.10	3.84	1.32	0.93	0.82	0.72	0.67	
24	1.49	3.69	4.66	3.38	2.04	6.85	3.19	1.29	0.92	0.81	0.71	0.67	
25	1.41	3.67	4.16	3.27	1.94	6.57	2.86	1.27	0.91	0.80	0.71	0.67	
26	1.34	4.14	3.92	3.04	1.91	6.22	2.74	1.24	0.91	0.79	0.71	0.66	
27	1.30	4.38	3.44	4.50	1.90	6.03	2.63	1.21	0.90	0.79	0.71	0.66	
28	1.12	4.35	3.00	6.23	1.83	6.24	2.56	1.19	0.89	0.79	0.71	0.66	
29	1.03	4.59	2.79	6.38	1.74	6.08	2.57	1.18	0.89	0.78		0.66	
30	0.98	5.33	2.94	6.00	1.68	5.92	2.93	1.15	0.88	0.78		0.66	
31		5.54		5.71	1.64		2.92		0.87	0.78		0.66	
MEAN	1.09	3.37	3.49	4.16	2.92	4.50	4.23	1.62	0.99	0.83	0.74	0.68	
MAX	2.13	6.05	6.01	6.38	5.47	7.31	5.85	2.58	1.14	0.87	0.78	0.70	7.31
MIN	0.71	0.92	2.30	2.45	1.64	1.67	2.56	1.15	0.87	0.78	0.71	0.66	0.66

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.31 M (A.D), AT 24.00 HOURS, ON SEP 21, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.05 M (A.D)
LEFT BANK ELEVATION 6.56 M (A.D)
RIGHT BANK ELEVATION 4.52 M (A.D), DRAINAGE AREA 1164 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.85	51.84	15.49	59.09	4.89	69.04	13.18	1.64	0.61	0.36	0.20	
2	0.32	0.76	30.10	16.80	50.52	5.82	69.04	10.11	1.58	0.58	0.34	0.20	
3	0.34	0.97	17.88	16.68	37.72	8.49	67.90	8.85	1.46	0.58	0.34	0.20	
4	0.30	1.16	14.61	14.17	30.10	15.27	64.08	7.77	1.40	0.55	0.32	0.20	
5	0.26	1.00	13.07	12.52	30.38	17.88	55.04	7.18	1.32	0.55	0.32	0.18	
6	0.24	1.12	11.53	11.75	35.00	18.24	61.64	6.62	1.28	0.52	0.30	0.18	
7	0.22	1.32	12.30	13.73	35.60	21.54	67.52	7.02	1.24	0.49	0.30	0.18	
8	0.26	2.42	14.83	17.64	30.80	21.28	71.90	6.54	1.24	0.49	0.30	0.18	
9	0.24	4.22	14.83	26.88	26.60	24.08	67.90	7.02	1.16	0.49	0.30	0.18	
10	0.28	2.84	12.08	31.08	24.64	27.30	68.28	6.46	1.12	0.49	0.28	0.18	
11	0.40	1.76	13.51	31.64	20.37	29.12	66.38	5.58	1.08	0.49	0.28	0.18	
12	0.36	2.18	12.52	30.52	18.12	25.48	54.11	5.10	1.04	0.49	0.28	0.18	
13	0.32	8.76	14.17	33.05	16.44	22.71	41.32	4.82	1.00	0.52	0.28	0.16	
14	0.28	31.36	14.50	40.28	15.27	23.80	36.20	4.47	0.94	0.52	0.26	0.16	
15	0.34	76.15	12.52	44.68	14.28	22.19	29.82	4.10	0.94	0.49	0.28	0.16	
16	2.78	80.75	10.20	58.82	13.07	21.15	24.36	3.80	0.91	0.49	0.28	0.16	
17	4.10	69.80	14.94	90.26	11.86	28.00	20.24	3.68	0.88	0.49	0.26	0.14	
18	3.14	65.04	30.10	86.32	10.90	39.00	17.40	3.56	0.85	0.55	0.24	0.14	
19	6.06	64.72	44.87	68.28	10.40	68.66	15.72	3.32	0.82	0.55	0.24	0.14	
20	8.67	62.22	73.16	49.88	9.93	114.52	28.84	3.20	0.82	0.52	0.24	0.14	
21	5.26	56.48	78.79	29.54	10.50	156.50	30.80	3.02	0.82	0.52	0.24	0.14	
22	3.74	45.44	66.38	26.46	10.20	172.92	32.20	2.84	0.79	0.46	0.24	0.14	
23	3.02	34.40	54.11	24.22	8.76	153.80	29.26	2.72	0.79	0.46	0.24	0.14	
24	3.74	27.16	41.68	22.84	7.86	132.50	20.37	2.54	0.76	0.43	0.22	0.14	
25	3.26	26.88	33.80	21.41	7.02	111.76	16.32	2.42	0.73	0.40	0.22	0.14	
26	2.84	33.50	30.38	18.48	6.78	89.64	14.94	2.24	0.73	0.38	0.22	0.12	
27	2.60	37.10	23.66	39.00	6.70	79.77	13.73	2.06	0.70	0.38	0.22	0.12	
28	1.52	36.65	18.00	90.26	6.14	90.88	12.96	1.94	0.67	0.38	0.22	0.12	
29	1.12	40.44	15.49	99.56	5.42	82.22	13.07	1.88	0.67	0.36		0.12	
30	0.94	55.52	17.28	78.30	4.96	74.86	17.16	1.70	0.64	0.36		0.12	
31		61.06		66.38	4.68		17.04		0.61	0.36		0.12	
TOTAL	57.29	934.03	813.13	1226.92	580.11	1704.27	1214.58	145.74	30.63	14.95	7.62	4.86	6734.12 CMSDAY
MEAN	1.91	30.13	27.10	39.58	18.71	56.81	39.18	4.86	0.99	0.48	0.27	0.16	18.45 CMS
MAX	8.67	80.75	78.79	99.56	59.09	172.92	71.90	13.18	1.64	0.61	0.36	0.20	172.92 CMS
MIN	0.22	0.76	10.20	11.75	4.68	4.89	12.96	1.70	0.61	0.36	0.22	0.12	0.12 CMS
RUNOFF	4.950	80.700	70.254	106.006	50.121	147.249	104.940	12.592	2.646	1.292	0.658	0.420	581.828 MCM

MOMENTARY PEAK 172.92 CMS, AT 7.31 M (A.D), AT 24.00 HOURS, ON SEP 21, 1978

RUNOFF YIELD 15.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 148.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

RAYONG RIVER BASIN

KHLONG TA NOT AT BAN THAP CHUM, CHANTHABURI (Z.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.S.

LOCATION — ALONG THE MEASURING LINE.

ELEVATION — +8.953 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

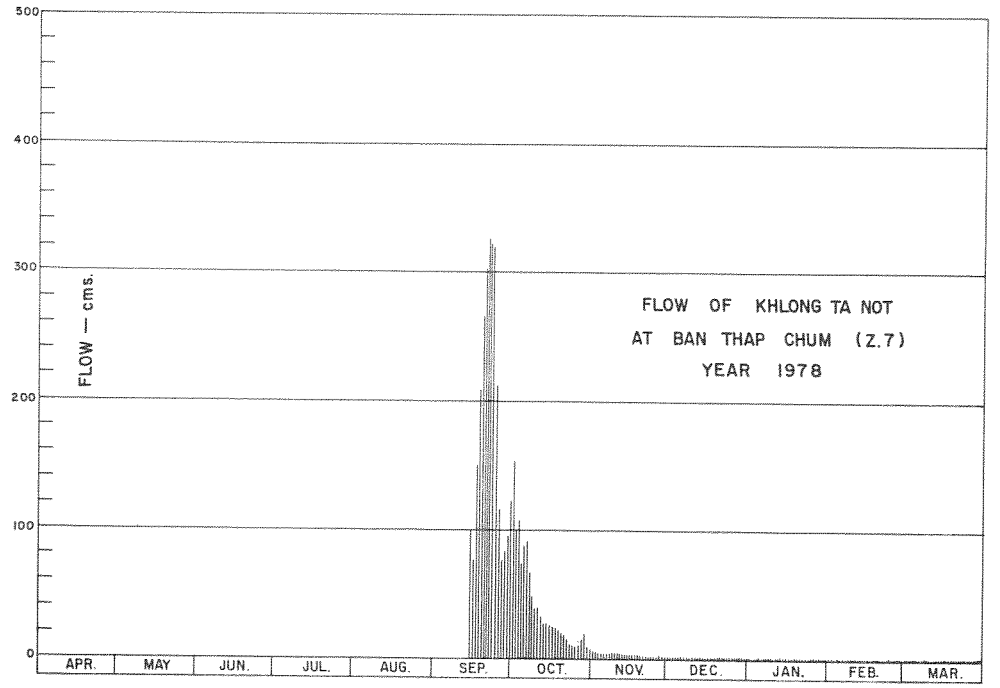
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 819 DISCHARGE MEASUREMENTS MADE DURING 1965-1970.

REMARKS — STREAM GAGING BEGAN ON SEPT 15, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	*******	*******	*******	8.75	3.79	3.01	2.75	2.67	2.56	
2	*******	*******	*******	*******	*******	*******	8.91	3.71	3.00	2.75	2.67	2.56	
3	*******	*******	*******	*******	*******	*******	7.54	3.65	2.99	2.75	2.67	2.55	
4	*******	*******	*******	*******	*******	*******	7.73	3.61	2.97	2.75	2.64	2.54	
5	*******	*******	*******	*******	*******	*******	6.81	3.57	2.96	2.74	2.64	2.54	
6	*******	*******	*******	*******	*******	*******	7.21	3.55	2.94	2.74	2.64	2.54	
7	*******	*******	*******	*******	*******	*******	7.25	3.55	2.93	2.73	2.65	2.54	
8	*******	*******	*******	*******	*******	*******	6.52	3.59	2.92	2.73	2.65	2.54	
9	*******	*******	*******	*******	*******	*******	5.98	3.58	2.92	2.73	2.65	2.53	
10	*******	*******	*******	*******	*******	*******	5.55	3.58	2.91	2.73	2.64	2.53	
11	*******	*******	*******	*******	*******	*******	5.66	3.57	2.89	2.73	2.64	2.52	
12	*******	*******	*******	*******	*******	*******	5.51	3.53	2.89	2.73	2.64	2.51	
13	*******	*******	*******	*******	*******	*******	5.10	3.50	2.88	2.73	2.63	2.50	
14	*******	*******	*******	*******	*******	*******	5.06	3.48	2.87	2.73	2.63	2.50	
15	*******	*******	*******	*******	*******	7.52	5.02	3.44	2.86	2.73	2.63	2.49	
16	*******	*******	*******	*******	*******	6.81	5.00	3.39	2.86	2.73	2.63	2.48	
17	*******	*******	*******	*******	*******	8.73	4.96	3.34	2.84	2.73	2.63	2.44	
18	*******	*******	*******	*******	*******	9.74	4.89	3.29	2.84	2.72	2.62	2.41	
19	*******	*******	*******	*******	*******	10.41	4.82	3.24	2.83	2.72	2.62	2.37	
20	*******	*******	*******	*******	*******	10.96	4.72	3.20	2.83	2.71	2.62	2.36	
21	*******	*******	*******	*******	*******	11.27	4.58	3.16	2.82	2.71	2.61	2.34	
22	*******	*******	*******	*******	*******	11.24	4.56	3.14	2.81	2.71	2.60	2.33	
23	*******	*******	*******	*******	*******	11.17	4.31	3.12	2.81	2.71	2.60	2.32	
24	*******	*******	*******	*******	*******	10.84	4.12	3.11	2.80	2.70	2.60	2.28	
25	*******	*******	*******	*******	*******	9.65	4.07	3.10	2.79	2.69	2.60	2.26	
26	*******	*******	*******	*******	*******	7.86	3.96	3.08	2.78	2.69	2.58	2.26	
27	*******	*******	*******	*******	*******	7.02	3.88	3.06	2.78	2.69	2.58	2.25	
28	*******	*******	*******	*******	*******	6.86	4.21	3.04	2.77	2.68	2.57	2.23	
29	*******	*******	*******	*******	*******	7.31	4.63	3.03	2.76	2.68		2.20	
30	*******	*******	*******	*******	*******	7.47	4.19	3.02	2.76	2.67		2.16	
31		*******		*******	*******		3.92		2.76	2.66		2.00	
MEAN	*******	*******	*******	*******	*******	*******	5.47	3.37	2.86	2.72	2.63	2.41	
MAX	*******	*******	*******	*******	*******	11.27	8.91	3.79	3.01	2.75	2.67	2.56	11.27
MIN	*******	*******	*******	*******	*******	*******	3.88	3.02	2.76	2.66	2.57	2.00	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.30 M (A.D), AT 12.00 HOURS, ON SEP 21, 1978
ZERO GAGE AT BOTTOM ELEVATION 2.00 M (A.D), RIVER BED 1.25 M (A.D)
LEFT BANK ELEVATION 10.66 M (A.D)
RIGHT BANK ELEVATION 11.45 M (A.D), DRAINAGE AREA 1318 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	*******	*******	*******	146.75	7.56	1.34	0.70	0.54	0.32	
2	*******	*******	*******	*******	*******	*******	153.95	6.62	1.30	0.70	0.54	0.32	
3	*******	*******	*******	*******	*******	*******	99.40	5.95	1.27	0.70	0.54	0.30	
4	*******	*******	*******	*******	*******	*******	106.05	5.51	1.21	0.70	0.48	0.28	
5	*******	*******	*******	*******	*******	*******	74.80	5.10	1.18	0.68	0.48	0.28	
6	*******	*******	*******	*******	*******	*******	87.85	4.90	1.12	0.68	0.48	0.28	
7	*******	*******	*******	*******	*******	*******	89.25	4.90	1.09	0.66	0.50	0.28	
8	*******	*******	*******	*******	*******	*******	66.10	5.30	1.06	0.66	0.50	0.28	
9	*******	*******	*******	*******	*******	*******	49.90	5.20	1.06	0.66	0.50	0.26	
10	*******	*******	*******	*******	*******	*******	38.75	5.20	1.03	0.66	0.48	0.26	
11	*******	*******	*******	*******	*******	*******	41.50	5.10	0.98	0.66	0.48	0.24	
12	*******	*******	*******	*******	*******	*******	37.75	4.70	0.98	0.66	0.48	0.22	
13	*******	*******	*******	*******	*******	*******	28.50	4.40	0.96	0.66	0.46	0.20	
14	*******	*******	*******	*******	*******	*******	27.70	4.24	0.94	0.66	0.46	0.20	
15	*******	*******	*******	*******	*******	98.70	26.90	3.92	0.92	0.66	0.46	0.18	
16	*******	*******	*******	*******	*******	74.80	26.50	3.52	0.92	0.66	0.46	0.16	
17	*******	*******	*******	*******	*******	145.85	25.70	3.12	0.88	0.66	0.46	0.08	
18	*******	*******	*******	*******	*******	198.60	24.30	2.74	0.88	0.64	0.44	0.02	
19	*******	*******	*******	*******	*******	245.75	22.90	2.44	0.86	0.64	0.44	0.00	
20	*******	*******	*******	*******	*******	293.50	20.90	2.20	0.86	0.62	0.44	0.00	
21	*******	*******	*******	*******	*******	326.25	18.20	2.00	0.84	0.62	0.42	0.00	
22	*******	*******	*******	*******	*******	322.50	17.90	1.90	0.82	0.62	0.40	0.00	
23	*******	*******	*******	*******	*******	314.50	14.15	1.80	0.82	0.62	0.40	0.00	
24	*******	*******	*******	*******	*******	282.25	11.46	1.75	0.80	0.60	0.40	0.00	
25	*******	*******	*******	*******	*******	193.00	10.85	1.70	0.78	0.58	0.40	0.00	
26	*******	*******	*******	*******	*******	110.90	9.55	1.62	0.76	0.58	0.36	0.00	
27	*******	*******	*******	*******	*******	81.20	8.61	1.54	0.76	0.58	0.36	0.00	
28	*******	*******	*******	*******	*******	76.30	12.65	1.46	0.74	0.56	0.34	0.00	
29	*******	*******	*******	*******	*******	91.35	19.10	1.42	0.72	0.56		0.00	
30	*******	*******	*******	*******	*******	96.95	12.37	1.38	0.72	0.54		0.00	
31		*******		*******	*******		9.08		0.72	0.52		0.00	
TOTAL	*******	*******	*******	*******	*******	*******	1339.37	109.19	29.32	19.70	12.70	4.16	******** CMSDAY
MEAN	*******	*******	*******	*******	*******	*******	43.21	3.64	0.95	0.64	0.45	0.13	******* CMS
MAX	*******	*******	*******	*******	*******	326.25	153.95	7.56	1.34	0.70	0.54	0.32	326.25 CMS
MIN	*******	*******	*******	*******	*******	*******	8.61	1.38	0.72	0.52	0.34	0.00	******* CMS
RUNOFF	*******	*******	*******	*******	*******	*******	115.721	9.434	2.533	1.702	1.097	0.359	******** MCM

MOMENTARY PEAK 330.00 CMS, AT 11.30 M (A.D), AT 12.00 HOURS, ON SEP 21, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 250.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

RAYONG RIVER BASIN

KHLONG YAI AT BAN SI BUA THONG, TRAT (Z.10)

LOCATION — LAT. 12°-28'-28" N., LONG. 102°-28'-52" E., ON RIGHT BANK AT BAN PONG SCHOOL, TAMBON WANG TA KHIAN, AMPHOE KHAO SAMING, TRAT.

DRAINAGE AREA — 920 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +11.280 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 READING.

PERIOD OF AVAILABLE GAGE RECORDS — 1970 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1973-1978

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973-1978

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 158 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

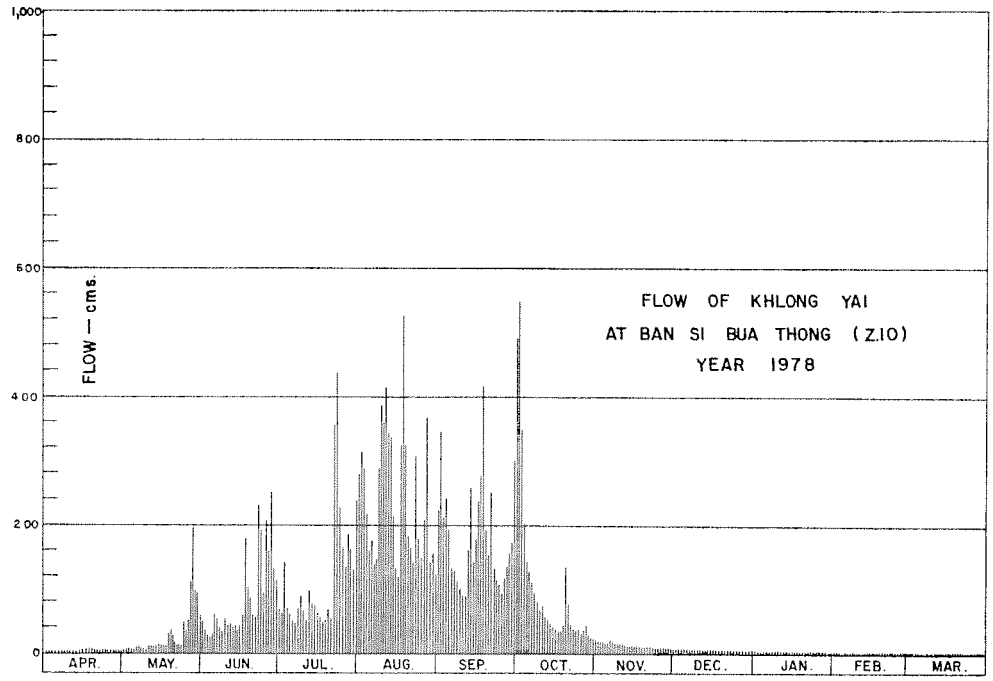
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.06	1.14	3.04	3.51	7.20	8.10	9.66	2.12	1.51	1.26	1.07	0.94	
2	1.06	1.27	2.55	3.31	7.66	8.00	10.62	2.09	1.49	1.22	1.08	0.94	
3	1.03	1.36	2.33	5.03	7.15	6.16	8.66	2.02	1.51	1.22	1.06	0.92	
4	1.03	1.36	2.24	3.91	6.05	6.63	5.70	2.02	1.46	1.21	1.06	0.92	
5	1.09	1.35	2.49	3.43	5.28	5.45	5.13	2.00	1.44	1.21	1.05	0.90	
6	1.04	1.30	3.27	3.12	5.62	4.81	4.84	1.97	1.42	1.20	1.05	0.90	
7	1.06	1.80	3.17	2.94	4.90	4.74	4.49	2.08	1.44	1.19	1.06	0.90	
8	1.01	1.50	2.61	2.90	5.18	4.35	4.08	1.97	1.43	1.17	1.07	0.90	
9	1.00	1.50	2.48	3.99	8.67	4.13	3.84	1.90	1.42	1.18	1.03	0.90	
10	0.94	1.36	3.16	3.82	8.26	4.00	3.46	1.87	1.40	1.26	1.03	0.90	
11	0.99	1.72	2.78	3.14	8.98	3.82	3.66	1.87	1.40	1.24	1.04	0.90	
12	1.00	1.68	2.96	2.95	8.14	4.81	3.23	1.83	1.38	1.22	1.02	0.89	
13	1.06	1.64	2.75	4.14	7.97	6.87	3.08	1.81	1.37	1.20	1.02	0.88	
14	1.27	1.52	2.76	3.74	6.04	5.02	2.92	1.79	1.34	1.21	1.01	0.87	
15	1.25	1.74	2.59	3.61	4.97	4.94	2.79	1.75	1.36	1.21	1.03	0.86	
16	1.26	1.70	2.85	3.30	4.47	6.49	2.68	1.72	1.34	1.23	1.11	0.85	
17	1.21	1.70	3.41	3.09	6.67	7.10	2.60	1.71	1.33	1.19	1.12	0.82	
18	1.47	1.75	5.64	2.90	10.39	9.02	2.54	1.73	1.33	1.17	1.08	0.83	
19	1.36	2.54	3.86	3.04	8.41	6.22	2.85	1.63	1.33	1.17	1.07	0.83	
20	1.27	2.73	3.84	3.48	5.71	5.16	4.84	1.64	1.33	1.15	1.05	0.82	
21	1.29	2.00	3.17	3.02	5.44	6.76	4.00	1.64	1.32	1.16	1.04	0.80	
22	1.17	1.81	4.11	7.98	4.90	5.42	3.04	1.63	1.30	1.14	0.99	0.79	
23	1.08	1.77	6.48	9.17	7.59	4.47	2.76	1.59	1.29	1.13	0.99	0.85	
24	1.31	1.72	5.08	6.96	5.64	4.41	2.60	1.59	1.28	1.12	0.97	0.90	
25	1.17	3.01	3.93	5.72	5.11	4.01	2.65	1.58	1.28	1.11	0.95	0.91	
26	1.18	2.55	6.24	5.32	6.00	4.27	2.46	1.57	1.28	1.12	0.95	0.91	
27	1.20	4.10	5.33	4.80	8.40	4.72	2.63	1.56	1.27	1.13	0.95	0.88	
28	1.20	5.91	6.76	5.73	6.02	5.28	2.83	1.55	1.26	1.12	0.95	0.88	
29	1.04	4.09	4.75	5.19	4.97	4.81	2.39	1.53	1.26	1.11		0.85	
30	1.15	4.02	4.30	4.73	5.29	6.67	2.23	1.50	1.25	1.12		0.81	
31		3.28		6.53	4.62		2.16		1.23	1.09		0.85	
MEAN	1.14	2.16	3.70	4.34	6.51	5.55	3.92	1.78	1.36	1.18	1.03	0.87	
MAX	1.47	5.91	6.76	9.17	10.39	9.02	10.62	2.12	1.51	1.26	1.12	0.94	10.62
MIN	0.94	1.14	2.24	2.90	4.47	3.82	2.16	1.50	1.23	1.09	0.95	0.79	0.79

ANNUAL MAX MOMENTARY GAGE HEIGHT — 10.73 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.10 M (A.D)

LEFT BANK ELEVATION — 12.40 M (A.D)

RIGHT BANK ELEVATION — 11.30 M (A.D), DRAINAGE AREA — 920 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.60	2.40	50.10	69.45	281.00	345.10	465.80	20.60	7.98	3.90	1.70	0.64	
2	1.60	4.05	33.85	60.90	313.46	337.90	544.80	19.75	7.62	3.30	1.80	0.64	
3	1.30	5.40	27.03	143.49	277.50	209.98	387.72	18.00	7.98	3.30	1.60	0.52	
4	1.30	5.40	24.24	87.45	203.15	241.10	182.00	18.00	7.08	3.15	1.60	0.52	
5	1.90	5.25	31.99	65.85	156.90	167.00	148.79	17.50	6.72	3.15	1.50	0.40	
6	1.40	4.50	59.30	53.30	177.20	132.11	133.64	16.81	6.36	3.00	1.50	0.40	
7	1.60	13.20	55.30	46.40	136.70	128.54	115.79	19.50	6.72	2.90	1.60	0.40	
8	1.10	7.80	35.71	45.00	151.44	108.65	95.10	16.81	6.54	2.70	1.70	0.40	
9	1.00	7.80	31.68	91.05	388.49	97.50	84.30	15.20	6.36	2.80	1.30	0.40	
10	0.64	5.40	54.90	83.40	356.92	91.50	67.20	14.60	6.00	3.90	1.30	0.40	
11	0.94	11.76	41.06	54.10	412.36	83.40	76.20	14.60	6.00	3.60	1.40	0.40	
12	1.00	11.04	47.10	46.75	347.98	132.11	57.70	13.80	5.70	3.30	1.20	0.36	
13	1.60	10.32	40.10	98.00	335.74	257.90	51.70	13.40	5.55	3.00	1.20	0.32	
14	4.05	8.16	40.42	79.80	202.54	142.96	45.70	13.02	5.10	3.15	1.10	0.28	
15	3.75	12.12	35.09	73.95	140.34	138.78	41.38	12.30	5.40	3.15	1.30	0.24	
16	3.90	11.40	43.35	60.50	114.77	231.35	37.88	11.76	5.10	3.45	2.10	0.20	
17	3.15	11.40	64.95	52.10	243.90	274.00	35.40	11.58	4.95	2.90	2.20	0.08	
18	7.26	12.30	178.40	45.00	524.20	415.44	33.54	11.94	4.95	2.70	1.80	0.12	
19	5.40	33.54	85.20	50.10	368.47	213.80	43.35	10.14	4.95	2.70	1.70	0.12	
20	4.05	39.46	84.30	68.10	182.60	150.38	133.64	10.32	4.95	2.50	1.50	0.08	
21	4.35	17.50	55.30	49.30	166.40	250.20	91.50	10.32	4.80	2.60	1.40	0.00	
22	2.70	13.40	96.50	336.46	136.70	165.20	50.10	10.14	4.50	2.40	0.94	0.00	
23	1.80	12.66	230.70	426.99	308.49	114.77	40.42	9.42	4.35	2.30	0.94	0.20	
24	4.65	11.76	146.14	264.20	178.40	111.71	35.40	9.42	4.20	2.20	0.82	0.40	
25	2.70	48.90	88.35	183.20	147.73	91.95	36.95	9.24	4.20	2.10	0.70	0.46	
26	2.80	33.85	215.10	159.20	200.10	104.57	31.06	9.06	4.20	2.20	0.70	0.46	
27	3.00	96.00	159.80	131.60	367.70	127.52	36.33	8.88	4.05	2.30	0.70	0.32	
28	3.00	194.61	250.20	183.80	201.32	156.90	42.69	8.70	3.90	2.20	0.70	0.32	
29	1.40	95.55	129.05	151.97	140.34	132.11	28.89	8.34	3.90	2.10		0.20	
30	2.50	92.40	106.10	128.03	157.45	243.90	23.93	7.80	3.75	2.20		0.04	
31		59.70		234.10	122.42		21.80		3.45	1.90		0.20	
TOTAL	77.44	899.03	2541.31	3623.54	7442.70	5398.32	3220.69	390.95	167.31	87.05	38.00	9.52	23895.85 CMSDAY
MEAN	2.58	29.00	84.71	116.89	240.09	179.94	103.89	13.03	5.40	2.81	1.36	0.31	65.47 CMS
MAX	7.26	194.61	250.20	426.99	524.20	415.44	544.80	20.60	7.98	3.90	2.20	0.64	544.80 CMS
MIN	0.64	2.40	24.24	45.00	114.77	83.40	21.80	7.80	3.45	1.90	0.70	0.00	0.00 CMS
RUNOFF	6.691	77.676	219.569	313.073	643.049	466.415	278.268	33.778	14.456	7.521	3.283	0.823	2064.601 MCM

MOMENTARY PEAK 554.70 CMS, AT 10.73 M (A.D), AT 6.00 HOURS, ON OCT 2, 1978
RUNOFF YIELD 71.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 602.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

RAYONG RIVER BASIN

CHANTHABURI RIVER AT BAN PUK, CHANTHABURI (Z.13)

LOCATION — LAT. 12°-45'-40" N., LONG. 102°-18'-35" E., ON LEFT BANK INFRONT OF WAT BAN PUK, AMPHOE MAKHAM, CHANTHABURI.

DRAINAGE AREA — 671 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +8.109 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

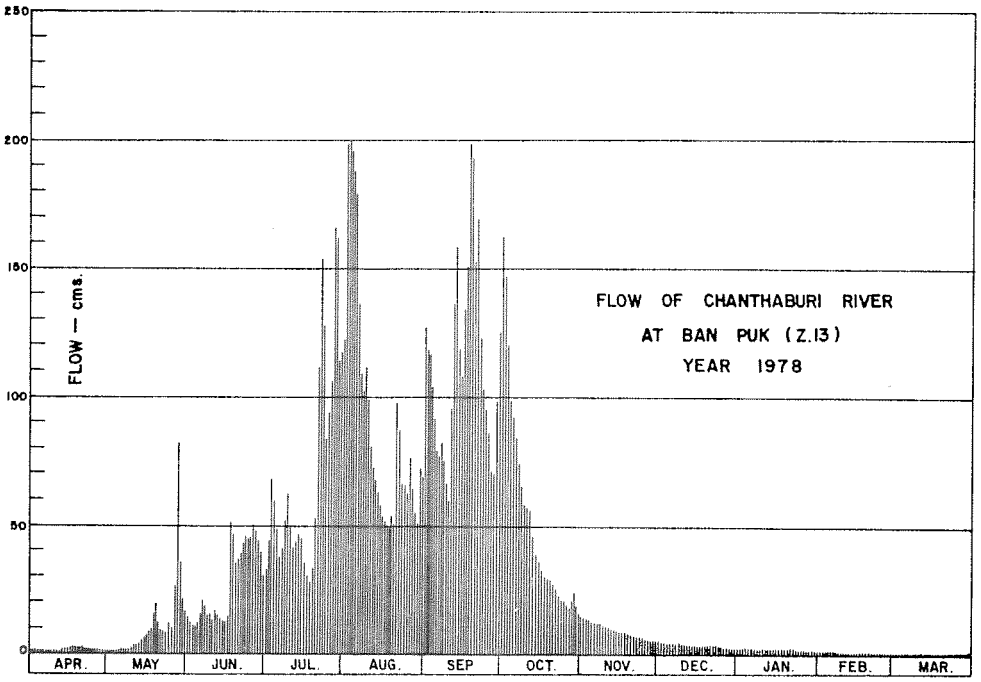
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING MAR 15-31, 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.31	1.10	1.60	4.71	3.98	4.78	1.13	0.66	0.46	0.35	0.20	
2	0.28	0.30	1.02	1.71	5.58	3.79	4.52	1.10	0.65	0.46	0.35	0.19	
3	0.27	0.31	0.97	2.61	5.63	3.74	3.97	1.07	0.64	0.45	0.34	0.17	
4	0.27	0.30	0.92	2.49	5.39	3.42	3.35	1.04	0.63	0.45	0.33	0.16	
5	0.27	0.33	1.00	2.13	5.16	2.89	3.26	1.03	0.63	0.45	0.33	0.16	
6	0.27	0.35	1.17	1.99	4.46	2.79	3.12	1.02	0.62	0.44	0.32	0.20	
7	0.27	0.36	1.31	1.83	3.70	2.89	2.90	1.00	0.61	0.43	0.32	0.21	
8	0.26	0.36	1.18	1.97	3.43	2.93	2.64	0.98	0.61	0.43	0.31	0.24	
9	0.26	0.39	1.09	2.28	3.62	2.65	2.45	0.96	0.61	0.43	0.30	0.22	
10	0.25	0.42	1.11	2.45	3.26	2.37	2.31	0.94	0.59	0.43	0.29	0.20	
11	0.23	0.53	1.05	2.06	2.92	2.70	2.30	0.93	0.58	0.43	0.28	0.91	
12	0.25	0.52	1.21	1.93	2.63	3.99	2.13	0.91	0.58	0.43	0.28	0.17	
13	0.31	0.51	1.11	1.99	2.51	4.70	1.99	0.89	0.57	0.44	0.28	0.20	
14	0.34	0.64	1.07	2.04	2.38	3.92	1.87	0.88	0.57	0.45	0.28	0.13	
15	0.38	0.72	1.00	2.01	2.23	3.54	1.77	0.86	0.55	0.47	0.27	0.13	
16	0.38	0.73	1.08	1.76	2.18	4.04	1.69	0.84	0.54	0.45	0.28	0.13	
17	0.41	0.81	1.60	1.65	2.16	4.48	1.63	0.83	0.54	0.44	0.29	0.13	
18	0.41	0.88	2.16	1.52	2.12	5.30	1.58	0.82	0.53	0.43	0.30	0.13	
19	0.40	1.16	1.93	1.60	2.22	5.60	1.56	0.80	0.53	0.42	0.30	0.13	
20	0.41	1.28	1.74	1.82	2.17	4.56	1.58	0.78	0.53	0.41	0.30	0.13	
21	0.44	0.97	1.81	2.90	3.31	4.95	1.53	0.77	0.52	0.41	0.29	0.13	
22	0.39	0.83	1.87	4.40	2.91	4.27	1.46	0.75	0.51	0.40	0.26	0.13	
23	0.37	0.83	2.02	4.57	2.53	3.75	1.40	0.73	0.51	0.39	0.26	0.13	
24	0.35	0.81	2.02	3.48	2.54	3.34	1.34	0.72	0.50	0.38	0.24	0.13	
25	0.35	0.99	2.00	2.98	2.47	3.22	1.33	0.71	0.49	0.37	0.23	0.13	
26	0.34	0.89	2.08	3.33	2.79	2.91	1.28	0.70	0.49	0.37	0.23	0.13	
27	0.34	1.52	2.15	3.53	2.55	2.65	1.25	0.69	0.48	0.37	0.21	0.13	
28	0.33	2.93	2.05	4.86	2.25	2.64	1.31	0.68	0.48	0.37	0.21	0.13	
29	0.33	1.77	1.94	4.77	2.11	3.41	1.42	0.67	0.48	0.36		0.13	
30	0.32	1.38	1.83	3.68	2.68	3.75	1.22	0.66	0.48	0.36		0.13	
31		1.21		3.80	2.61		1.16		0.47	0.36		0.13	
MEAN	0.33	0.82	1.49	2.64	3.14	3.64	2.13	0.86	0.55	0.42	0.29	0.18	
MAX	0.44	2.93	2.16	4.86	5.63	5.60	4.78	1.13	0.66	0.47	0.35	0.91	5.63
MIN	0.23	0.30	0.92	1.52	2.11	2.37	1.16	0.66	0.47	0.36	0.21	0.13	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.84 M (A.D), AT 18.00 HOURS, ON AUG 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.25 M (A.D)
LEFT BANK ELEVATION 7.50 M (A.D)
RIGHT BANK ELEVATION 1.62 M (A.D), DRAINAGE AREA 671 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	1.10	14.50	30.00	158.45	126.60	161.60	15.25	5.20	2.60	1.50	0.00	
2	0.80	1.00	12.50	33.85	197.60	118.55	150.40	14.50	5.00	2.60	1.50	0.00	
3	0.70	1.10	11.40	68.90	199.85	116.30	126.15	13.75	4.80	2.50	1.40	0.00	
4	0.70	1.00	10.40	64.10	189.05	102.50	99.00	13.00	4.60	2.50	1.30	0.00	
5	0.70	1.30	12.00	49.70	178.70	80.10	94.90	12.75	4.60	2.50	1.30	0.00	
6	0.70	1.50	16.25	44.10	147.70	76.10	89.30	12.50	4.40	2.40	1.20	0.00	
7	0.70	1.60	20.30	38.05	114.50	80.10	80.50	12.00	4.20	2.30	1.20	0.10	
8	0.60	1.60	16.50	43.30	103.00	81.70	70.10	11.60	4.20	2.30	1.10	0.40	
9	0.60	1.90	14.25	55.70	111.30	70.50	62.50	11.20	4.20	2.30	1.00	0.20	
10	0.50	2.20	14.75	62.50	94.90	59.30	56.90	10.80	3.90	2.30	0.90	0.00	
11	0.30	3.30	13.25	46.90	81.30	72.50	56.50	10.60	3.80	2.30	0.80	10.20	
12	0.50	3.20	17.30	41.70	69.70	127.05	49.70	10.20	3.80	2.30	0.80	0.00	
13	1.10	3.10	14.75	44.10	64.90	158.00	44.10	9.80	3.70	2.40	0.80	0.00	
14	1.40	4.80	13.75	46.10	59.70	123.90	39.45	9.60	3.70	2.50	0.80	0.00	
15	1.80	6.40	12.00	44.90	53.70	108.10	35.95	9.20	3.50	2.70	0.70	0.00	
16	1.80	6.60	14.00	35.60	51.70	129.30	33.15	8.80	3.40	2.50	0.80	0.00	
17	2.10	8.20	30.00	31.75	50.90	148.60	31.05	8.60	3.40	2.40	0.90	0.00	
18	2.10	9.60	50.90	27.20	49.30	185.00	29.30	8.40	3.30	2.30	1.00	0.00	
19	2.00	16.00	41.70	30.00	53.30	198.50	28.60	8.00	3.30	2.20	1.00	0.00	
20	2.10	19.40	34.90	37.70	51.30	152.20	29.30	7.60	3.30	2.10	1.00	0.00	
21	2.40	11.40	37.35	80.50	97.00	169.25	27.55	7.40	3.20	2.10	0.90	0.00	
22	1.90	8.60	39.45	145.00	80.90	139.15	25.10	7.00	3.10	2.00	0.60	0.00	
23	1.70	8.60	45.30	152.65	65.70	116.75	23.00	6.60	3.10	1.90	0.60	0.00	
24	1.50	8.20	45.30	105.50	66.10	98.50	21.20	6.40	3.00	1.80	0.40	0.00	
25	1.50	11.80	44.50	83.70	63.30	93.30	20.90	6.20	2.90	1.70	0.30	0.00	
26	1.40	9.80	47.70	98.00	76.10	80.90	19.40	6.00	2.90	1.70	0.30	0.00	
27	1.40	27.20	50.50	107.70	66.50	70.50	18.50	5.80	2.80	1.70	0.10	0.00	
28	1.30	81.70	46.50	165.20	54.50	70.10	20.30	5.60	2.80	1.70	0.10	0.00	
29	1.30	35.95	42.10	161.15	48.90	102.00	23.70	5.40	2.80	1.60		0.00	
30	1.20	22.40	38.05	113.70	71.70	116.75	17.60	5.20	2.80	1.60		0.00	
31		17.30		119.00	68.90		16.00		2.70	1.60		0.00	
TOTAL	37.60	337.85	822.15	2208.25	2840.45	3372.10	1601.70	279.75	112.40	67.40	24.30	10.90	11714.83 CMSDAY
MEAN	1.25	10.90	27.40	71.23	91.63	112.40	51.67	9.32	3.63	2.17	0.87	0.35	32.10 CMS
MAX	2.40	81.70	50.90	165.20	199.85	198.50	161.60	15.25	5.20	2.70	1.50	10.20	199.85 CMS
MIN	0.30	1.00	10.40	27.20	48.90	59.30	16.00	5.20	2.70	1.60	0.10	0.00	0.00 CMS
RUNOFF	3.249	29.190	71.034	190.793	245.415	291.349	138.387	24.170	9.711	5.823	2.100	0.942	1012.161 MCM

MOMENTARY PEAK 209.30 CMS, AT 5.84 M (A.D), AT 18.00 HOURS, ON AUG 2, 1978

RUNOFF YIELD 47.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 311.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

RAYONG RIVER BASIN

KHLONG YAI AT BAN PAK PHRAEK, RAYONG (Z.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.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

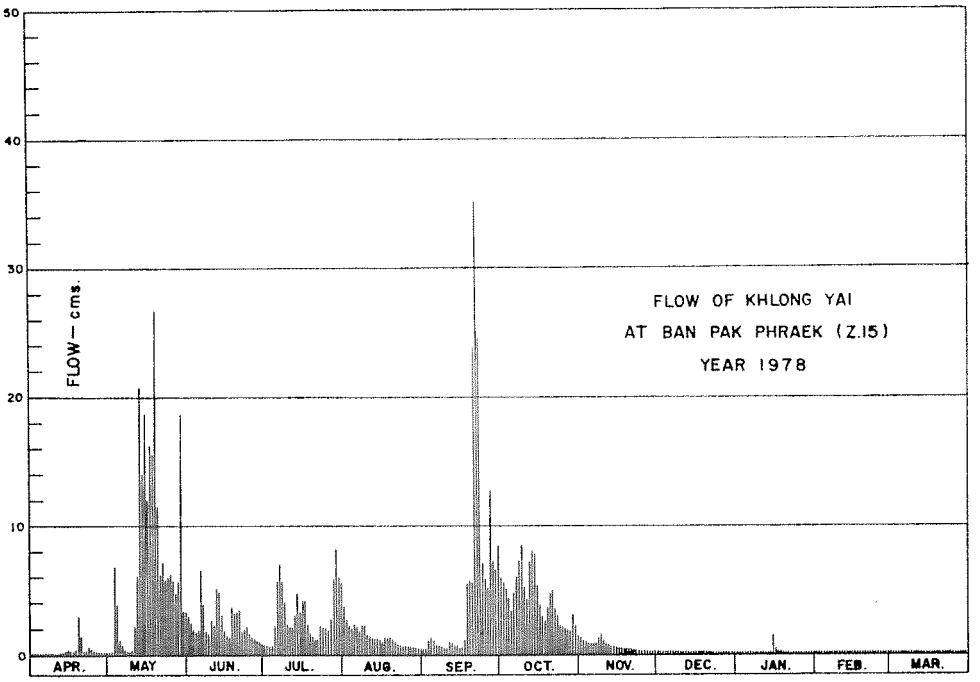
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 133 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.64	1.83	1.08	2.03	0.91	2.43	1.30	0.79	0.66	0.62	0.52	
2	0.55	0.68	1.59	1.06	1.74	0.92	2.33	1.27	0.79	0.65	0.60	0.52	
3	0.54	2.50	1.49	1.04	1.60	1.22	2.29	1.22	0.79	0.65	0.60	0.51	
4	0.54	2.11	1.44	1.07	1.51	1.29	2.06	1.17	0.77	0.65	0.59	0.53	
5	0.55	1.22	1.48	1.51	1.58	1.22	1.90	1.15	0.76	0.65	0.58	0.52	
6	0.55	1.13	2.47	2.35	1.57	1.09	2.19	1.15	0.78	0.64	0.56	0.52	
7	0.58	0.95	1.94	2.51	1.45	1.04	2.39	1.16	0.77	0.64	0.56	0.50	
8	0.57	0.87	1.46	2.34	1.59	1.98	2.54	1.29	0.76	0.62	0.55	0.47	
9	0.55	0.82	1.37	2.00	1.58	0.95	2.60	1.39	0.76	0.62	0.50	0.46	
10	0.54	0.89	1.69	1.61	1.37	0.93	2.28	1.18	0.75	0.63	0.47	0.48	
11	0.54	1.50	1.60	1.56	1.32	1.14	2.05	1.13	0.74	0.63	0.46	0.46	
12	0.55	2.33	2.26	1.53	1.29	1.19	2.50	1.09	0.74	0.64	0.46	0.45	
13	0.74	2.90	2.22	1.82	1.28	1.05	2.56	1.07	0.73	0.65	0.54	0.45	
14	0.77	2.76	1.82	2.21	1.28	1.02	2.57	1.05	0.72	0.64	0.57	0.45	
15	0.88	2.86	1.48	1.86	1.23	0.97	2.42	1.03	0.71	1.37	0.53	0.46	
16	0.80	2.71	1.33	2.07	1.19	0.96	2.05	0.99	0.70	0.94	0.63	0.46	
17	0.75	2.81	1.31	2.05	1.27	1.17	1.81	0.98	0.70	0.80	0.73	0.45	
18	0.84	2.80	1.95	1.52	1.26	2.32	1.69	0.99	0.70	0.75	0.68	0.45	
19	1.74	2.99	1.83	1.40	1.28	2.37	1.96	0.98	0.71	0.72	0.65	0.46	
20	1.30	2.66	1.86	1.28	1.20	2.36	2.19	0.96	0.70	0.70	0.60	0.45	
21	0.87	2.44	1.89	1.23	1.15	3.09	2.25	0.94	0.70	0.68	0.59	0.45	
22	0.85	2.52	1.46	1.26	1.08	2.98	1.96	0.90	0.69	0.67	0.58	0.45	
23	1.00	2.37	1.47	1.54	1.05	2.71	1.74	0.89	0.69	0.65	0.56	0.47	
24	0.84	2.42	1.57	1.54	1.03	2.52	1.61	0.89	0.69	0.65	0.48	0.43	
25	0.80	2.43	1.37	1.51	1.02	2.37	1.58	0.88	0.68	0.65	0.45	0.42	
26	0.76	2.36	1.27	1.45	1.01	2.27	1.52	0.86	0.68	0.64	0.47	0.42	
27	0.74	2.21	1.23	1.70	0.99	2.73	1.48	0.84	0.67	0.63	0.49	0.42	
28	0.71	2.36	1.18	2.83	0.97	2.53	1.49	0.82	0.68	0.63	0.53	0.42	
29	0.69	2.86	1.15	2.59	0.95	2.48	1.79	0.81	0.68	0.63		0.42	
30	0.67	1.86	1.11	2.44	0.95	2.60	1.58	0.80	0.66	0.62		0.43	
31		1.86		2.38	0.91		1.37		0.66	0.62		0.43	
MEAN	0.75	2.06	1.60	1.75	1.28	1.75	2.04	1.04	0.72	0.69	0.56	0.46	
MAX	1.74	2.99	2.47	2.83	2.03	3.09	2.60	1.39	0.79	1.37	0.73	0.53	3.09
MIN	0.54	0.64	1.11	1.04	0.91	0.91	1.37	0.80	0.66	0.62	0.46	0.42	0.42

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.12 M (A.D), AT 8.00 HOURS, ON SEP 21, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.25 M (A.D)
LEFT BANK ELEVATION 3.15 M (A.D)
RIGHT BANK ELEVATION 3.10 M (A.D), DRAINAGE AREA 244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.10	3.22	0.76	4.02	0.42	6.17	1.35	0.24	0.12	0.09	0.01	
2	0.03	0.13	2.31	0.72	2.86	0.44	5.48	1.26	0.24	0.11	0.07	0.01	
3	0.03	6.80	1.96	0.68	2.35	1.11	5.24	1.11	0.24	0.11	0.07	0.01	
4	0.03	4.34	1.79	0.74	2.03	1.32	4.14	0.97	0.22	0.11	0.06	0.02	
5	0.03	1.11	1.93	2.03	2.28	1.11	3.50	0.92	0.21	0.11	0.06	0.01	
6	0.03	0.87	6.53	5.60	2.24	0.78	4.66	0.92	0.23	0.10	0.04	0.01	
7	0.06	0.50	3.66	6.96	1.82	0.68	5.84	0.95	0.22	0.10	0.04	0.00	
8	0.05	0.35	1.86	5.54	2.31	3.82	7.44	1.32	0.21	0.09	0.03	0.00	
9	0.03	0.28	1.56	3.90	2.28	0.50	8.40	1.62	0.21	0.09	0.00	0.00	
10	0.03	0.38	2.66	2.38	1.56	0.46	5.18	1.00	0.20	0.09	0.00	0.00	
11	0.03	2.00	2.35	2.21	1.41	0.90	4.10	0.87	0.19	0.09	0.00	0.00	
12	0.03	5.48	5.06	2.10	1.32	1.02	6.80	0.78	0.19	0.10	0.00	0.00	
13	0.19	20.70	4.82	3.18	1.29	0.70	8.08	0.74	0.18	0.11	0.03	0.00	
14	0.22	14.02	3.18	4.76	1.29	0.64	7.92	0.70	0.17	0.10	0.05	0.00	
15	0.37	18.70	1.93	3.34	1.14	0.54	6.08	0.66	0.16	1.56	0.02	0.00	
16	0.25	11.92	1.44	4.18	1.02	0.52	4.10	0.58	0.15	0.48	0.09	0.00	
17	0.20	16.20	1.38	4.10	1.26	0.97	3.14	0.56	0.15	0.25	0.18	0.00	
18	0.31	15.70	3.70	2.07	1.23	5.42	2.66	0.58	0.15	0.20	0.13	0.00	
19	2.86	26.64	3.22	1.65	1.29	5.72	3.74	0.56	0.16	0.17	0.11	0.00	
20	1.35	10.26	3.34	1.29	1.05	5.66	4.66	0.52	0.15	0.15	0.07	0.00	
21	0.35	6.26	3.46	1.14	0.92	34.95	5.00	0.48	0.15	0.13	0.06	0.00	
22	0.32	7.12	1.86	1.23	0.76	25.98	3.74	0.40	0.14	0.13	0.06	0.00	
23	0.60	5.72	1.89	2.14	0.70	11.92	2.86	0.38	0.14	0.11	0.04	0.00	
24	0.31	6.08	2.24	2.14	0.66	7.12	2.38	0.38	0.14	0.11	0.00	0.00	
25	0.25	6.17	1.56	2.03	0.64	5.72	2.28	0.37	0.13	0.11	0.00	0.00	
26	0.21	5.66	1.26	1.82	0.62	5.12	2.07	0.34	0.13	0.10	0.00	0.00	
27	0.19	4.76	1.14	2.70	0.58	12.76	1.93	0.31	0.13	0.09	0.00	0.00	
28	0.16	5.66	1.00	17.20	0.54	7.28	1.96	0.28	0.13	0.09	0.02	0.00	
29	0.14	18.70	0.92	8.24	0.50	6.62	3.06	0.26	0.13	0.09		0.00	
30	0.13	3.34	0.82	6.26	0.50	8.40	2.28	0.25	0.12	0.09		0.00	
31		3.34		5.78	0.42		1.56		0.12	0.09		0.00	
TOTAL	8.82	229.29	74.05	108.87	42.89	158.60	136.45	21.42	5.33	5.38	1.32	0.07	792.49 CMSDAY
MEAN	0.29	7.40	2.47	3.51	1.38	5.29	4.40	0.71	0.17	0.17	0.05	0.00	2.17 CMS
MAX	2.86	26.64	6.53	17.20	4.02	34.95	8.40	1.62	0.24	1.56	0.18	0.02	34.95 CMS
MIN	0.03	0.10	0.82	0.68	0.42	0.42	1.56	0.25	0.12	0.09	0.00	0.00	0.00 CMS
RUNOFF	0.762	19.811	6.398	9.406	3.706	13.703	11.789	1.851	0.461	0.465	0.114	0.006	68.471 MCM

MOMENTARY PEAK 37.82 CMS, AT 3.12 M (A,D), AT 8.00 HOURS, ON SEP 21, 1978
RUNOFF YIELD 8.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 155.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 45 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

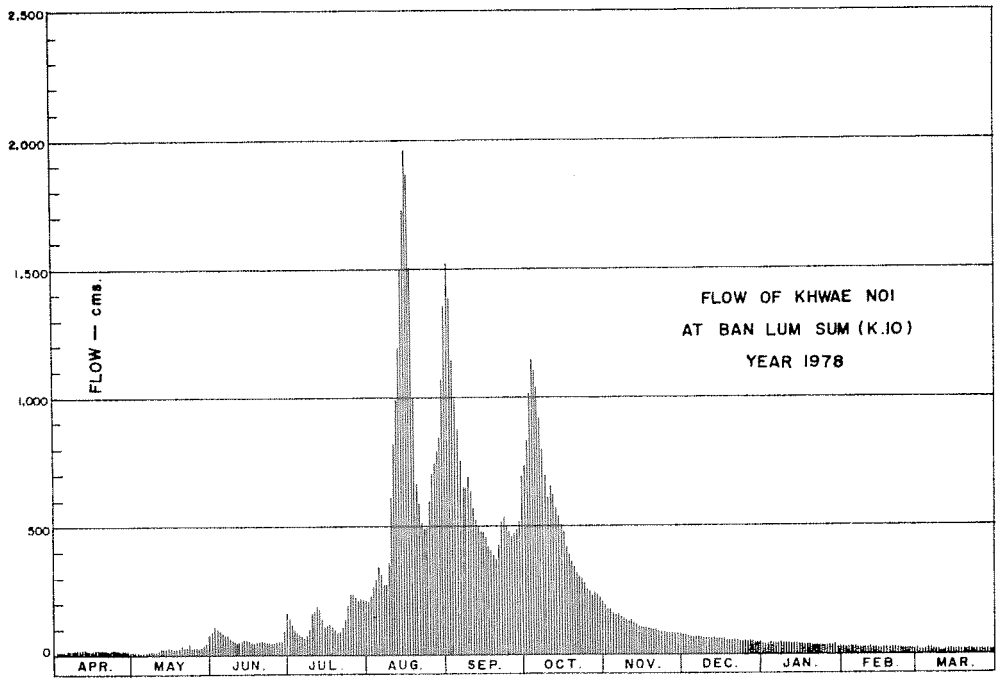
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	31.00	30.91	32.34	33.07	33.80	43.64	39.10	33.47	32.03	31.57	31.29	31.14	
2	30.99	30.91	32.66	32.72	34.14	42.47	40.25	33.37	32.01	31.55	31.28	31.13	
3	30.99	30.93	32.37	32.36	34.50	41.26	41.23	33.28	31.98	31.53	31.28	31.13	
4	30.98	30.92	32.38	32.15	34.78	40.79	41.61	33.19	31.96	31.52	31.27	31.14	
5	30.97	30.92	32.17	32.03	35.41	39.89	41.33	33.10	31.93	31.51	31.27	31.16	
6	30.97	30.94	32.06	31.97	35.14	39.11	40.66	33.04	31.92	31.50	31.26	31.13	
7	30.96	30.95	31.98	31.94	34.48	38.36	39.81	32.98	31.90	31.49	31.26	31.12	
8	30.96	30.95	31.79	32.09	34.55	38.31	39.10	32.94	31.89	31.48	31.25	31.11	
9	30.95	30.93	31.69	32.60	35.42	38.71	38.56	32.88	31.88	31.48	31.25	31.10	
10	30.95	30.98	31.61	33.24	38.68	38.25	38.02	32.83	31.85	31.47	31.25	31.09	
11	30.95	31.05	31.54	33.36	39.91	37.62	38.37	32.76	31.85	31.46	31.24	31.08	
12	30.95	31.11	31.58	33.52	40.79	37.22	38.10	32.70	31.82	31.45	31.25	31.08	
13	30.97	31.20	31.70	33.39	42.31	37.04	37.65	32.64	31.80	31.44	31.23	31.07	
14	30.96	31.27	31.68	32.92	43.97	36.73	37.36	32.59	31.78	31.44	31.22	31.06	
15	30.99	31.21	31.61	32.56	45.05	36.60	37.08	32.54	31.77	31.43	31.22	31.06	
16	30.98	31.15	31.60	32.61	45.77	36.42	36.79	32.50	31.75	31.42	31.21	31.05	
17	30.99	31.10	31.56	32.66	44.66	36.06	36.36	32.46	31.73	31.41	31.20	31.04	
18	31.01	31.12	31.56	32.46	41.36	35.95	35.91	32.42	31.71	31.40	31.20	31.04	
19	31.00	31.12	31.63	32.30	39.16	35.75	35.60	32.39	31.70	31.40	31.19	31.04	
20	30.98	31.24	31.69	32.21	38.37	35.74	35.32	32.37	31.69	31.40	31.20	31.03	
21	30.96	31.32	31.61	32.39	37.68	36.96	35.08	32.33	31.68	31.39	31.19	31.03	
22	30.96	31.30	31.55	32.70	37.05	37.40	34.91	32.29	31.67	31.38	31.18	31.03	
23	30.95	31.27	31.54	33.23	36.70	37.31	34.81	32.25	31.66	31.36	31.17	31.02	
24	30.98	31.26	31.52	33.88	37.33	36.97	34.59	32.22	31.65	31.35	31.16	31.02	
25	30.95	31.16	31.53	34.23	38.57	36.66	34.38	32.19	31.64	31.34	31.15	31.01	
26	30.93	31.15	31.64	34.17	39.02	36.54	34.21	32.16	31.63	31.34	31.15	31.01	
27	30.93	31.19	31.71	33.86	39.21	36.69	34.07	32.13	31.61	31.33	31.14	31.01	
28	30.94	31.24	31.75	33.75	39.62	36.93	34.12	32.10	31.60	31.33	31.14	31.00	
29	30.94	31.37	32.17	33.93	39.95	37.28	34.12	32.08	31.58	31.32		31.00	
30	30.92	31.94	33.15	33.81	41.57	38.76	33.82	32.05	31.58	31.31		30.99	
31		32.04		33.74	43.50		33.63		31.57	31.31		30.99	
MEAN	30.97	31.17	31.85	32.96	38.79	37.91	36.97	32.61	31.77	31.42	31.22	31.06	
MAX	31.01	32.04	33.15	34.23	45.77	43.64	41.61	33.47	32.03	31.57	31.29	31.16	45.77
MIN	30.92	30.91	31.52	31.94	33.80	35.74	33.63	32.05	31.57	31.31	31.14	30.99	30.91

ANNUAL MAX MOMENTARY GAGE HEIGHT — 45.83 M (MSL), AT 18.00 HOURS, ON AUG 16, 1978

ZERO GAGE AT BOTTOM ELEVATION — 30.40 M (MSL), RIVER BED — 28.87 M (MSL)

LEFT BANK ELEVATION — 51.95 M (MSL)

RIGHT BANK ELEVATION — 48.30 M (MSL), DRAINAGE AREA — 7008 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.0	6.6	92.8	149.6	208.0	1529.0	748.0	181.6	73.8	46.2	29.4	20.4	
2	11.4	6.6	116.8	121.6	235.2	1300.6	915.5	173.6	72.6	45.0	28.8	19.8	
3	11.4	7.8	94.9	94.2	265.0	1082.8	1077.4	166.4	70.8	43.8	28.8	19.8	
4	10.8	7.2	95.6	81.0	290.3	1002.3	1145.8	159.2	69.6	43.2	28.2	20.4	
5	10.2	7.2	82.2	73.8	347.2	861.5	1095.4	152.0	67.8	42.6	28.2	21.6	
6	10.2	8.4	75.6	70.2	322.8	749.4	980.2	147.2	67.2	42.0	27.6	19.8	
7	9.6	9.0	70.8	68.4	263.2	651.2	849.5	142.4	66.0	41.4	27.6	19.2	
8	9.6	9.0	59.4	77.4	269.5	645.2	748.0	139.2	65.4	40.8	27.0	18.6	
9	9.0	7.8	53.4	112.0	348.1	695.3	675.8	134.4	64.8	40.8	27.0	18.0	
10	9.0	10.8	48.6	163.2	691.4	638.0	610.4	130.4	63.0	40.2	27.0	17.4	
11	9.0	15.0	44.4	172.8	864.5	566.2	652.4	124.8	63.0	39.6	26.4	16.8	
12	9.0	18.6	46.8	185.6	1002.3	525.1	620.0	120.0	61.2	39.0	27.0	16.8	
13	10.2	24.0	54.0	175.2	1271.8	507.1	569.5	115.2	60.0	38.4	25.8	16.2	
14	9.6	28.2	52.8	137.6	1595.0	476.2	539.0	111.2	58.8	38.4	25.2	15.6	
15	11.4	24.6	48.6	108.8	1811.0	463.2	511.1	107.2	58.2	37.8	25.2	15.6	
16	10.8	21.0	48.0	112.8	1959.7	445.2	482.2	104.0	57.0	37.2	24.6	15.0	
17	11.4	18.0	45.6	116.8	1733.0	409.3	439.3	101.2	55.8	36.6	24.0	14.4	
18	12.6	19.2	45.6	101.2	1100.8	398.3	394.4	98.4	54.6	36.0	24.0	14.4	
19	12.0	19.2	49.8	90.0	756.4	378.4	364.4	96.3	54.0	36.0	23.4	14.4	
20	10.8	26.4	53.4	84.6	652.4	377.4	339.1	94.9	53.4	36.0	24.0	13.8	
21	9.6	31.2	48.6	96.3	572.8	499.1	317.4	92.1	52.8	35.4	23.4	13.8	
22	9.6	30.0	45.0	120.0	508.1	543.0	302.1	89.4	52.2	34.8	22.8	13.8	
23	9.0	28.2	44.4	162.4	473.2	534.0	293.0	87.0	51.6	33.6	22.2	13.2	
24	10.8	27.6	43.2	214.4	536.0	500.1	273.2	85.2	51.0	33.0	21.6	13.2	
25	9.0	21.6	43.8	242.4	677.1	469.2	254.4	83.4	50.4	32.4	21.0	12.6	
26	7.8	21.0	50.4	237.6	736.8	457.2	240.6	81.6	49.8	32.4	21.0	12.6	
27	7.8	23.4	54.6	212.8	763.4	472.2	229.6	79.8	48.6	31.8	20.4	12.6	
28	8.4	26.4	57.0	204.0	821.0	496.1	233.6	78.0	48.0	31.8	20.4	12.0	
29	8.4	34.2	82.2	218.4	870.5	531.0	233.6	76.8	46.8	31.2		12.0	
30	7.2	68.4	156.0	208.8	1138.6	701.8	209.6	75.0	46.8	30.6		11.4	
31		74.4		203.2	1501.0		194.4		46.2	30.6		11.4	
TOTAL	297.6	681.0	1904.3	4417.1	24586.1	18905.4	16539.1	3427.9	1801.2	1158.6	702.0	486.6	74906.8 CMSDAY
MEAN	9.9	22.0	63.5	142.5	793.1	630.2	533.5	114.3	58.1	37.4	25.1	15.7	205.2 CMS
MAX	12.6	74.4	156.0	242.4	1959.7	1529.0	1145.8	181.6	73.8	46.2	29.4	21.6	1959.7 CMS
MIN	7.2	6.6	43.2	68.4	208.0	377.4	194.4	75.0	46.2	30.6	20.4	11.4	6.6 CMS
RUNOFF	25.71	58.84	164.53	381.64	2124.24	1633.42	1428.98	296.17	155.62	100.10	60.65	42.04	6471.94 MCM

MOMENTARY PEAK 1972.30 CMS, AT 45.83 M (MSL), AT 18.00 HOURS, ON AUG 16, 1978

RUNOFF YIELD 29.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 281.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 — +11.93 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 56 DISCHARGE MEASUREMENTS MADE IN 1978. 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, 1978 TO MARCH 31, 1979

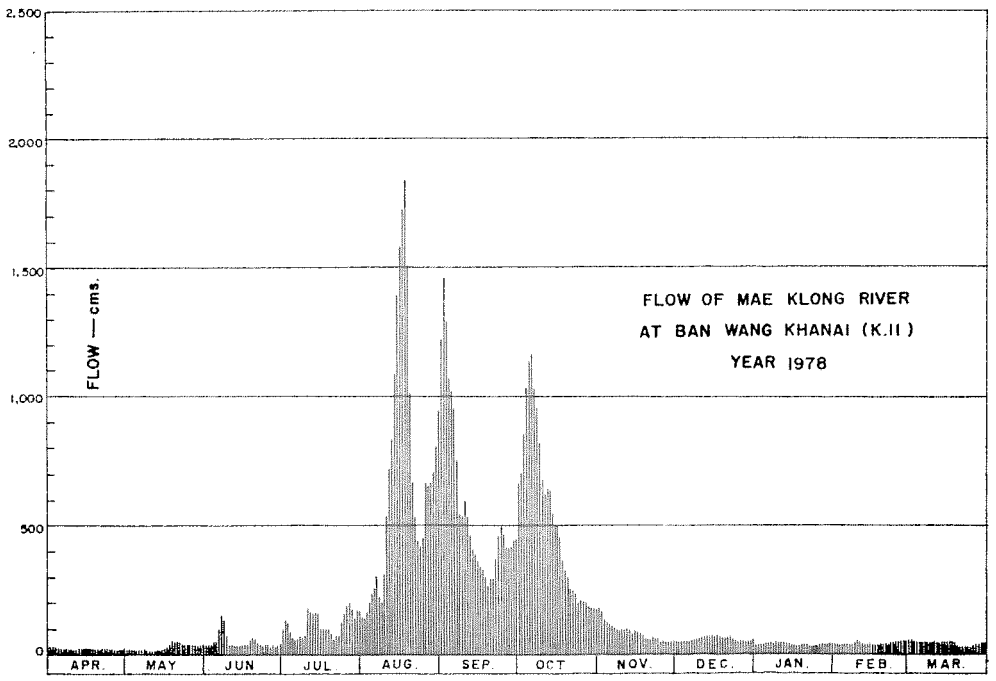
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.90	11.89	12.06	12.68	12.79	16.68	14.98	12.98	12.14	12.04	12.01	12.17	
2	11.90	11.90	12.08	12.77	12.81	16.90	15.03	12.94	12.16	12.04	12.01	12.17	
3	11.90	11.91	12.12	12.65	12.92	16.53	15.59	12.75	12.16	12.06	12.01	12.15	
4	11.90	11.91	12.15	12.38	13.19	15.97	16.04	12.64	12.16	12.07	11.99	12.12	
5	11.90	11.91	12.17	12.18	13.29	15.87	16.23	12.62	12.16	12.06	11.98	12.12	
6	11.89	11.92	12.59	12.23	13.57	15.63	16.23	12.58	12.16	12.07	11.99	12.14	
7	11.89	11.92	12.83	12.31	13.41	15.04	15.87	12.49	12.21	12.09	11.99	12.16	
8	11.89	11.92	12.76	12.26	13.07	14.48	15.63	12.47	12.23	12.09	11.99	12.16	
9	11.88	11.91	12.20	12.28	13.14	14.45	15.26	12.48	12.24	12.09	12.05	12.16	
10	11.88	11.92	12.01	12.51	13.78	14.69	14.92	12.50	12.26	12.08	12.14	12.15	
11	11.91	11.93	12.00	12.99	14.93	14.48	14.73	12.50	12.29	12.07	12.06	12.15	
12	11.96	11.92	12.00	12.88	15.23	14.17	14.82	12.50	12.30	12.08	12.06	12.14	
13	11.96	11.92	12.00	12.90	15.69	13.96	14.81	12.43	12.29	12.08	12.06	12.14	
14	11.96	11.92	12.00	12.90	16.37	13.93	14.46	12.36	12.29	12.05	12.05	12.14	
15	11.95	11.94	12.00	12.64	16.99	13.81	14.30	12.45	12.30	12.02	12.06	12.14	
16	11.96	11.96	12.02	12.47	17.24	13.71	14.30	12.39	12.29	12.01	12.06	12.13	
17	11.95	12.02	12.05	12.49	17.63	13.69	14.06	12.39	12.29	12.01	12.06	12.13	
18	11.92	12.09	12.19	12.50	17.69	13.54	13.78	12.32	12.29	12.01	12.06	12.07	
19	11.92	12.10	12.27	12.53	16.41	13.37	13.67	12.24	12.29	12.01	12.06	12.03	
20	11.92	12.10	12.15	12.39	15.05	13.55	13.51	12.24	12.29	12.01	12.06	11.96	
21	11.92	12.10	12.07	12.21	14.74	13.58	13.31	12.24	12.28	12.00	12.06	11.93	
22	11.92	12.09	12.08	12.36	14.32	14.08	13.32	12.26	12.28	12.01	12.08	11.93	
23	11.92	12.04	12.00	12.36	14.07	14.19	13.27	12.25	12.21	12.01	12.09	11.93	
24	11.92	12.04	12.00	12.74	14.03	14.32	13.06	12.18	12.15	12.01	12.13	11.93	
25	11.92	12.03	11.97	12.92	14.22	14.20	13.11	12.09	12.15	12.01	12.13	11.95	
26	11.91	12.02	11.96	13.08	14.90	13.98	13.06	12.09	12.16	12.02	12.15	12.01	
27	11.90	12.02	11.95	13.11	14.82	13.99	13.06	12.09	12.16	12.01	12.17	12.04	
28	11.89	12.02	11.99	12.97	14.99	14.02	13.01	12.08	12.16	12.01	12.17	12.09	
29	11.89	12.02	12.02	12.78	15.19	14.14	13.00	12.09	12.16	12.02		12.10	
30	11.89	12.02	12.04	12.94	15.42	14.14	13.00	12.10	12.16	12.02		12.11	
31		12.02		12.97	15.98		12.99		12.20	12.02		12.11	
MEAN	11.91	11.98	12.12	12.63	14.77	14.50	14.27	12.39	12.22	12.04	12.06	12.09	
MAX	11.96	12.10	12.83	13.11	17.69	16.90	16.23	12.98	12.30	12.09	12.17	12.17	17.69
MIN	11.88	11.89	11.95	12.18	12.79	13.37	12.99	12.08	12.14	12.00	11.98	11.93	11.88

ANNUAL MAX MOMENTARY GAGE HEIGHT — 17.83 M (MSL), AT 8.00 HOURS, ON AUG 18, 1978

ZERO GAGE AT BOTTOM ELEVATION — 11.93 M (MSL), RIVER BED — 10.64 M (MSL)

LEFT BANK ELEVATION — 21.56 M (MSL)

RIGHT BANK ELEVATION — 22.86 M (MSL), DRAINAGE AREA — 26449 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	17.0	16.4	37.6	121.0	138.4	1350.4	693.6	176.0	46.8	35.4	32.1	50.4	
2	17.0	17.0	39.8	155.2	142.0	1456.0	709.6	168.0	49.2	35.4	32.1	50.4	
3	17.0	17.8	44.4	116.5	164.0	1279.8	912.2	132.0	49.2	37.6	32.1	48.0	
4	17.0	17.8	48.0	76.4	218.0	1056.6	1083.2	115.0	49.2	38.7	30.1	44.4	
5	17.0	17.8	50.4	51.6	238.0	1018.6	1155.4	112.0	49.2	37.6	29.2	44.4	
6	16.4	18.6	107.5	57.6	295.4	927.4	1155.4	106.0	49.2	38.7	30.1	46.8	
7	16.4	18.6	146.0	67.3	262.0	712.8	1018.6	92.5	55.2	40.9	30.1	49.2	
8	16.4	18.6	133.6	61.2	194.0	542.4	927.4	89.5	57.6	40.9	30.1	49.2	
9	15.8	17.8	54.0	63.6	208.0	534.0	787.6	91.0	58.8	40.9	36.5	49.2	
10	15.8	18.6	32.1	95.5	348.8	603.0	674.4	94.0	61.2	39.8	46.8	48.0	
11	17.8	19.4	31.0	178.0	677.6	542.4	615.0	94.0	64.8	38.7	37.6	48.0	
12	21.8	18.6	31.0	156.0	776.8	455.6	642.4	94.0	66.0	39.8	37.6	46.8	
13	21.8	18.6	31.0	160.0	950.2	396.8	639.2	83.5	64.8	39.8	37.6	46.8	
14	21.8	18.6	31.0	160.0	1210.0	388.4	536.8	73.8	64.8	36.5	36.5	46.8	
15	21.0	20.2	31.0	115.0	1499.2	356.6	492.0	86.5	66.0	33.2	37.6	46.8	
16	21.8	21.8	33.2	89.5	1619.2	330.6	492.0	77.7	64.8	32.1	37.6	45.6	
17	21.0	33.2	36.5	92.5	1806.4	325.4	424.8	77.7	64.8	32.1	37.6	45.6	
18	18.6	40.9	52.8	94.0	1835.2	288.8	348.8	68.6	64.8	32.1	37.6	38.7	
19	18.6	42.0	62.4	98.5	1226.4	254.0	320.2	58.8	64.8	32.1	37.6	34.3	
20	18.6	42.0	48.0	77.7	716.0	291.0	282.2	58.8	64.8	32.1	37.6	27.4	
21	18.6	42.0	38.7	55.2	618.0	297.6	242.0	58.8	63.6	31.0	37.6	24.7	
22	18.6	40.9	39.8	73.8	497.6	430.4	244.0	61.2	63.6	32.1	39.8	24.7	
23	18.6	35.4	31.0	73.8	427.6	461.2	234.0	60.0	55.2	32.1	40.9	24.7	
24	18.6	35.4	31.0	130.4	416.4	497.6	192.0	51.6	48.0	32.1	45.6	24.7	
25	18.6	34.3	28.3	164.0	469.6	464.0	202.0	40.9	48.0	32.1	45.6	26.5	
26	17.8	33.2	27.4	196.0	668.0	402.4	192.0	40.9	49.2	33.2	48.0	32.1	
27	17.0	33.2	26.5	202.0	642.4	405.2	192.0	40.9	49.2	32.1	50.4	35.4	
28	16.4	33.2	30.1	174.0	696.8	413.6	182.0	39.8	49.2	32.1	50.4	40.9	
29	16.4	33.2	33.2	136.8	762.6	447.2	180.0	40.9	49.2	33.2		42.0	
30	16.4	33.2	35.4	168.0	847.6	447.2	180.0	42.0	49.2	33.2		43.2	
31		33.2		174.0	1060.4		178.0		54.0	33.2		43.2	
TOTAL	545.6	841.5	1402.7	3615.1	21632.6	17377.0	16128.8	2426.4	1754.4	1090.8	1062.4	1268.9	69146.1 CMSDAY
MEAN	18.2	27.1	46.8	116.6	697.8	579.2	520.3	80.9	56.6	35.2	37.9	40.9	189.4 CMS
MAX	21.8	42.0	146.0	202.0	1835.2	1456.0	1155.4	176.0	66.0	40.9	50.4	50.4	1835.2 CMS
MIN	15.8	16.4	26.5	51.6	138.4	254.0	178.0	39.8	46.8	31.0	29.2	24.7	15.8 CMS
RUNOFF	47.14	72.71	121.19	312.34	1869.65	1501.37	1393.53	209.64	151.58	94.25	91.79	109.63	5974.22 MCM

MOMENTARY PEAK 1902.40 CMS, AT 17.83 M (MSL), AT 8.00 HOURS, ON AUG 18, 1978

RUNOFF YIELD 7.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 71.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — AT THE CORNER OF SALA WAT THUNG NA NANG ROK.

ELEVATION — +9.260 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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, SHIFTING ADJUSTMENT IS INCLUDED FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 168 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

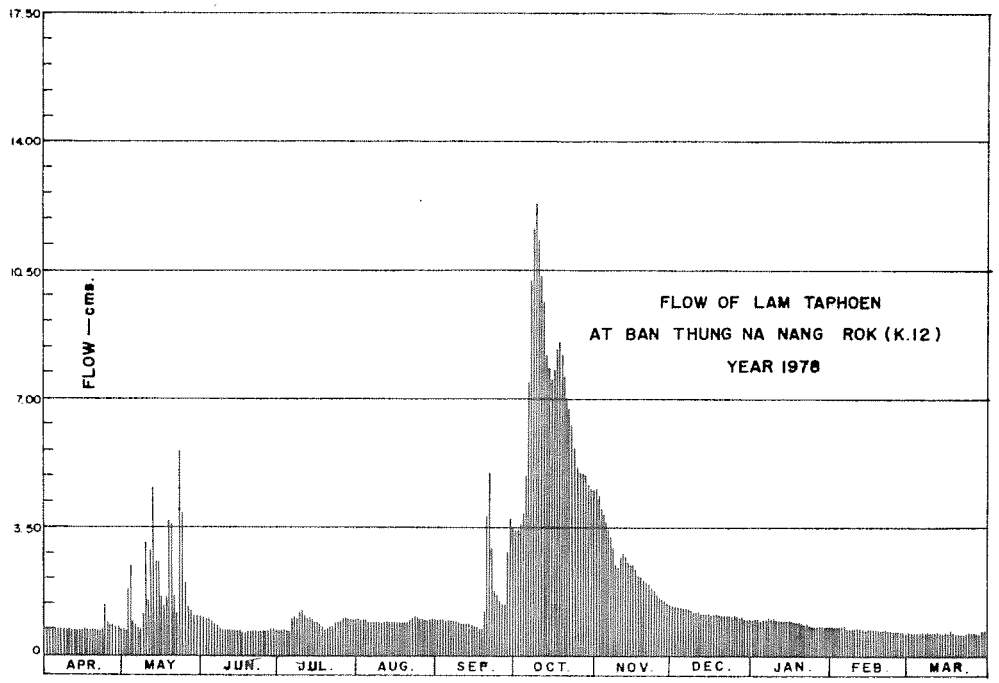
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.61	0.72	0.60	0.70	0.70	1.35	1.58	0.82	0.70	0.64	0.57	
2	0.61	0.61	0.72	0.60	0.70	0.70	1.35	1.54	0.81	0.69	0.64	0.57	
3	0.61	0.98	0.72	0.60	0.70	0.70	1.40	1.50	0.81	0.69	0.63	0.57	
4	0.61	1.10	0.70	0.60	0.69	0.69	1.47	1.44	0.80	0.69	0.63	0.57	
5	0.61	0.69	0.69	0.60	0.68	0.69	1.75	1.40	0.80	0.69	0.63	0.57	
6	0.61	0.64	0.67	0.73	0.69	0.69	2.15	1.37	0.79	0.69	0.63	0.57	
7	0.61	0.63	0.63	0.73	0.69	0.69	2.48	1.32	0.79	0.69	0.62	0.57	
8	0.61	0.62	0.62	0.70	0.69	0.68	2.67	1.26	0.78	0.69	0.61	0.57	
9	0.61	0.74	0.62	0.77	0.69	0.66	2.73	1.13	0.77	0.69	0.61	0.57	
10	0.61	1.28	0.61	0.79	0.69	0.64	2.63	1.10	0.77	0.69	0.61	0.57	
11	0.61	0.84	0.61	0.72	0.69	0.64	2.45	1.19	0.76	0.69	0.61	0.57	
12	0.61	1.59	0.61	0.72	0.69	0.64	2.36	1.19	0.76	0.69	0.60	0.57	
13	0.61	1.31	0.60	0.71	0.69	0.64	2.18	1.18	0.75	0.69	0.60	0.57	
14	0.61	1.13	0.60	0.70	0.69	0.64	2.13	1.14	0.74	0.69	0.60	0.57	
15	0.62	1.14	0.60	0.69	0.69	0.63	2.08	1.12	0.74	0.67	0.60	0.57	
16	0.62	0.90	0.60	0.69	0.69	0.63	2.13	1.10	0.73	0.67	0.60	0.57	
17	0.61	0.82	0.59	0.66	0.69	0.62	2.21	1.07	0.73	0.67	0.60	0.57	
18	0.61	0.95	0.59	0.62	0.69	0.62	2.23	1.04	0.74	0.66	0.60	0.57	
19	0.62	1.40	0.59	0.61	0.68	0.86	2.17	1.03	0.73	0.66	0.60	0.57	
20	0.61	1.35	0.60	0.61	0.69	1.54	2.06	1.02	0.72	0.65	0.60	0.57	
21	0.61	0.91	0.60	0.63	0.70	1.66	1.99	1.00	0.72	0.65	0.60	0.57	
22	0.61	0.77	0.60	0.66	0.72	1.00	1.90	0.98	0.72	0.65	0.60	0.57	
23	0.64	1.77	0.60	0.69	0.72	0.93	1.82	0.96	0.72	0.64	0.60	0.57	
24	0.87	1.56	0.60	0.71	0.72	0.93	1.74	0.94	0.72	0.64	0.59	0.57	
25	0.67	1.07	0.60	0.71	0.71	0.87	1.68	0.91	0.72	0.64	0.59	0.57	
26	0.65	0.84	0.60	0.72	0.71	0.83	1.66	0.88	0.71	0.64	0.58	0.57	
27	0.65	0.80	0.60	0.72	0.71	0.86	1.67	0.87	0.71	0.64	0.58	0.58	
28	0.64	0.74	0.60	0.71	0.71	1.34	1.64	0.86	0.71	0.64	0.58	0.59	
29	0.63	0.73	0.60	0.70	0.71	1.42	1.59	0.85	0.70	0.64		0.60	
30	0.63	0.73	0.60	0.70	0.71	1.31	1.57	0.83	0.70	0.64		0.62	
31		0.73		0.70	0.71		1.56		0.70	0.64		0.62	
MEAN	0.63	0.97	0.62	0.68	0.70	0.85	1.96	1.13	0.75	0.67	0.61	0.58	
MAX	0.87	1.77	0.72	0.79	0.72	1.66	2.73	1.58	0.82	0.70	0.64	0.62	2.73
MIN	0.60	0.61	0.59	0.60	0.68	0.62	1.35	0.83	0.70	0.64	0.58	0.57	0.57

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.74 M (A.D.), AT 12.00 HOURS, ON OCT 9, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED — 0.35 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	0.73	1.06	0.70	1.00	1.00	3.45	4.60	1.36	1.00	0.82	0.64	
2	0.73	0.73	1.06	0.70	1.00	1.00	3.45	4.40	1.33	0.97	0.82	0.64	
3	0.73	1.92	1.06	0.70	1.00	1.00	3.70	4.20	1.33	0.97	0.79	0.64	
4	0.73	2.40	1.00	0.70	0.97	0.97	4.05	3.90	1.30	0.97	0.79	0.64	
5	0.73	0.97	0.97	0.70	0.94	0.97	5.52	3.70	1.30	0.97	0.79	0.64	
6	0.73	0.82	0.91	1.09	0.97	0.97	8.05	3.55	1.27	0.97	0.79	0.64	
7	0.73	0.79	0.79	1.09	0.97	0.97	10.40	3.30	1.27	0.97	0.76	0.64	
8	0.73	0.76	0.76	1.00	0.97	0.94	11.86	3.04	1.24	0.97	0.73	0.64	
9	0.73	1.12	0.76	1.21	0.97	0.88	12.34	2.52	1.21	0.97	0.73	0.64	
10	0.73	3.12	0.73	1.27	0.97	0.82	11.54	2.40	1.21	0.97	0.73	0.64	
11	0.73	1.42	0.73	1.06	0.97	0.82	10.17	2.76	1.18	0.97	0.73	0.64	
12	0.73	4.65	0.73	1.06	0.97	0.82	9.52	2.76	1.18	0.97	0.70	0.64	
13	0.73	3.25	0.70	1.03	0.97	0.82	8.26	2.72	1.15	0.97	0.70	0.64	
14	0.73	2.52	0.70	1.00	0.97	0.82	7.91	2.56	1.12	0.97	0.70	0.64	
15	0.76	2.56	0.70	0.97	0.97	0.79	7.57	2.48	1.12	0.91	0.70	0.64	
16	0.76	1.60	0.70	0.97	0.97	0.79	7.91	2.40	1.09	0.91	0.70	0.64	
17	0.73	1.36	0.68	0.88	0.97	0.76	8.47	2.28	1.09	0.91	0.70	0.64	
18	0.73	1.80	0.68	0.76	0.97	0.76	8.61	2.16	1.12	0.88	0.70	0.64	
19	0.76	3.70	0.68	0.73	0.94	1.48	8.19	2.12	1.09	0.88	0.70	0.64	
20	0.73	3.45	0.70	0.73	0.97	4.40	7.44	2.08	1.06	0.85	0.70	0.64	
21	0.73	1.64	0.70	0.79	1.00	5.03	6.98	2.00	1.06	0.85	0.70	0.64	
22	0.73	1.21	0.70	0.88	1.06	2.00	6.40	1.92	1.06	0.85	0.70	0.64	
23	0.82	5.63	0.70	0.97	1.06	1.72	5.92	1.84	1.06	0.82	0.70	0.64	
24	1.51	4.50	0.70	1.03	1.06	1.72	5.47	1.76	1.06	0.82	0.68	0.64	
25	0.91	2.28	0.70	1.03	1.03	1.51	5.14	1.64	1.06	0.82	0.68	0.64	
26	0.85	1.42	0.70	1.06	1.03	1.39	5.03	1.54	1.03	0.82	0.66	0.64	
27	0.85	1.30	0.70	1.06	1.03	1.48	5.08	1.51	1.03	0.82	0.66	0.66	
28	0.82	1.12	0.70	1.03	1.03	3.40	4.92	1.48	1.03	0.82	0.66	0.68	
29	0.79	1.09	0.70	1.00	1.03	3.80	4.65	1.45	1.00	0.82		0.70	
30	0.79	1.09	0.70	1.00	1.03	3.25	4.55	1.39	1.00	0.82		0.76	
31		1.09		1.00	1.03		4.50		1.00	0.82		0.76	
TOTAL	23.46	62.04	23.10	29.20	30.82	47.08	217.05	76.46	35.41	28.03	20.22	20.20	613.07 CMSDAY
MEAN	0.78	2.00	0.77	0.94	0.99	1.57	7.00	2.55	1.14	0.90	0.72	0.65	1.68 CMS
MAX	1.51	5.63	1.06	1.27	1.06	5.03	12.34	4.60	1.36	1.00	0.82	0.76	12.34 CMS
MIN	0.70	0.73	0.68	0.70	0.94	0.76	3.45	1.39	1.00	0.82	0.66	0.64	0.64 CMS
RUNOFF	2.027	5.360	1.996	2.523	2.663	4.068	18.753	6.606	3.059	2.422	1.747	1.745	52.969 MCM

MOMENTARY PEAK 12.42 CMS, AT 2.74 M (A.D), AT 12.00 HOURS, ON OCT 9, 1978

RUNOFF YIELD 0.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 5.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — ON RIGHT BANK NEAR K.13 STATION OFFICE.

ELEVATION — +97.165 M. (M.S.L.)

GAGE READING FREQUENCY — 16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1971

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1971

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

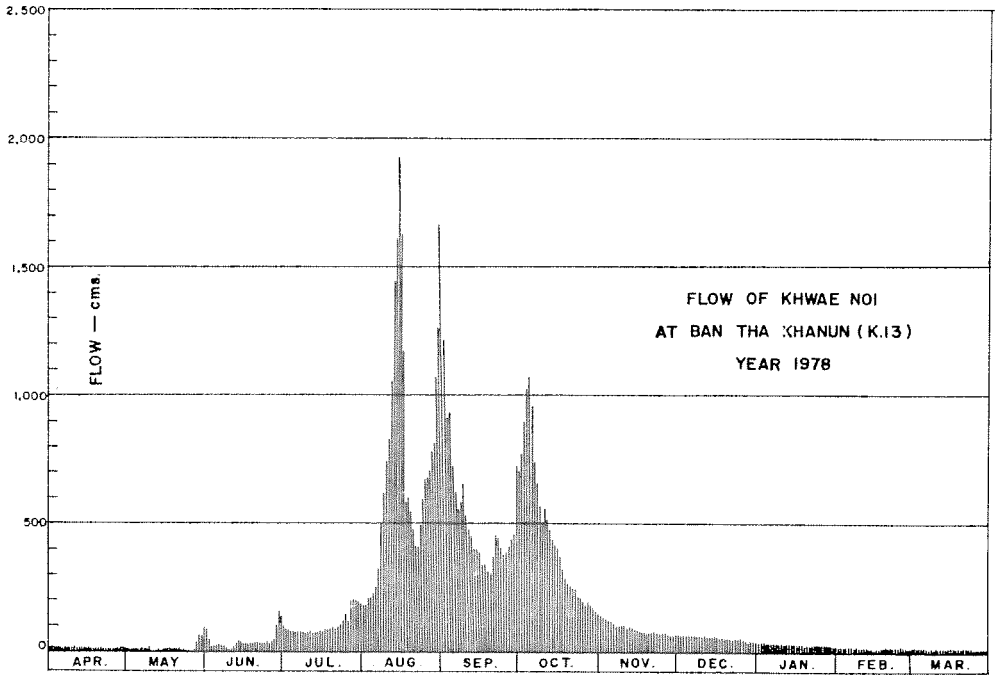
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 789 DISCHARGE MEASUREMENTS MADE DURING 1966-1970.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	75.52	75.47	76.69	76.87	77.79	83.60	82.27	77.41	76.49	76.13	75.86	75.74	
2	75.51	75.46	75.81	76.71	77.92	82.79	83.30	77.32	76.48	76.12	75.86	75.74	
3	75.50	75.46	75.95	76.69	78.12	82.94	83.71	77.29	76.47	76.10	75.85	75.73	
4	75.50	75.46	75.96	76.70	78.17	81.86	83.21	77.24	76.47	76.09	75.85	75.73	
5	75.50	75.47	75.94	76.70	78.40	81.39	82.46	77.14	76.46	76.08	75.85	75.73	
6	75.49	75.47	75.81	76.71	78.60	80.73	81.57	77.11	76.46	76.07	75.84	75.72	
7	75.49	75.48	75.70	76.71	80.00	80.91	81.26	77.06	76.45	76.05	75.84	75.72	
8	75.49	75.49	75.64	76.72	81.12	81.32	80.82	77.04	76.44	76.04	75.84	75.71	
9	75.49	75.50	75.58	76.73	81.61	80.72	80.42	77.04	76.43	76.04	75.84	75.71	
10	75.49	75.49	75.49	76.73	82.19	80.32	80.77	77.01	76.42	76.02	75.84	75.70	
11	75.49	75.47	76.04	76.74	82.74	80.05	80.30	76.97	76.41	76.02	75.83	75.69	
12	75.49	75.47	76.14	76.74	84.95	79.96	80.08	76.92	76.40	76.01	75.83	75.68	
13	75.49	75.46	76.15	76.74	86.28	79.67	79.90	76.87	76.39	76.00	75.83	75.67	
14	75.49	75.48	76.11	76.75	87.84	79.69	79.76	76.82	76.38	75.99	75.83	75.66	
15	75.49	75.48	76.04	76.89	87.70	79.52	79.62	76.79	76.37	75.98	75.82	75.65	
16	75.49	75.49	76.05	76.74	83.78	79.19	79.28	76.78	76.35	75.97	75.82	75.64	
17	75.49	75.50	76.09	76.94	80.90	79.20	78.98	76.75	76.33	75.97	75.82	75.64	
18	75.49	75.51	76.10	76.94	81.01	78.99	78.78	76.74	76.32	75.96	75.82	75.64	
19	75.49	75.52	76.12	76.94	80.71	78.88	78.62	76.73	76.31	75.96	75.81	75.63	
20	75.49	75.51	76.14	76.94	80.26	79.81	78.47	76.72	76.30	75.95	75.80	75.63	
21	75.48	75.50	76.15	76.94	79.84	80.02	78.39	76.71	76.28	75.93	75.79	75.62	
22	75.48	75.49	76.12	76.94	79.63	79.94	78.32	76.69	76.26	75.92	75.79	75.61	
23	75.48	75.43	76.10	77.06	80.38	79.59	78.18	76.67	76.23	75.91	75.78	75.60	
24	75.47	75.43	76.09	77.27	81.39	79.46	78.04	76.65	76.21	75.90	75.77	75.59	
25	75.47	75.53	76.11	77.50	81.45	79.56	77.93	76.62	76.20	75.89	75.76	75.58	
26	75.47	75.57	76.19	77.25	81.57	79.78	77.86	76.59	76.19	75.88	75.75	75.57	
27	75.47	75.67	76.38	78.02	82.13	79.98	77.99	76.56	76.17	75.87	75.74	75.57	
28	75.47	76.30	77.30	78.09	82.18	80.10	77.88	76.53	76.14	75.87	75.74	75.56	
29	75.47	76.63	77.65	78.09	84.62	81.76	77.68	76.50	76.14	75.87		75.54	
30	75.47	76.42	77.24	77.91	86.66	81.62	77.54	76.49	76.14	75.86		75.53	
31		76.96		77.83	84.73		77.44		76.14	75.86		75.52	
MEAN	75.49	75.63	76.16	77.05	81.76	80.44	79.70	76.86	76.33	75.98	75.81	75.65	
MAX	75.52	76.96	77.65	78.09	87.84	83.60	83.71	77.41	76.49	76.13	75.86	75.74	87.84
MIN	75.47	75.43	75.49	76.69	77.79	78.88	77.44	76.49	76.14	75.86	75.74	75.52	75.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 88.49 M (MSL), AT 24.00 HOURS, ON AUG 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 73.64 M (MSL), RIVER BED 74.27 M (MSL)
LEFT BANK ELEVATION 95.56 M (MSL)
RIGHT BANK ELEVATION 96.52 M (MSL), DRAINAGE AREA 4047 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.4	9.4	76.3	89.6	179.0	1055.0	814.6	141.0	62.3	37.1	19.6	14.8	
2	10.2	9.2	16.6	77.7	192.0	908.2	1000.0	132.0	61.6	36.4	19.6	14.8	
3	10.0	9.2	25.0	76.3	213.2	935.2	1075.9	129.0	60.9	35.0	19.0	14.6	
4	10.0	9.2	25.6	77.0	218.7	740.8	983.8	124.0	60.9	34.3	19.0	14.6	
5	10.0	9.4	24.4	77.0	244.0	664.4	852.4	114.0	60.2	33.6	19.0	14.6	
6	9.8	9.4	16.6	77.7	268.0	558.8	693.2	111.0	60.2	32.9	18.4	14.4	
7	9.8	9.6	14.0	77.7	450.0	587.6	643.6	106.0	59.5	31.5	18.4	14.4	
8	9.8	9.8	12.8	78.4	621.2	653.2	573.2	104.0	58.8	30.8	18.4	14.2	
9	9.8	10.0	11.6	79.1	699.6	557.2	509.2	104.0	58.1	30.8	18.4	14.2	
10	9.8	9.8	9.8	79.1	800.2	494.8	565.2	101.0	57.4	29.4	18.4	14.0	
11	9.8	9.4	30.8	79.8	899.2	457.0	492.0	97.6	56.7	29.4	17.8	13.8	
12	9.8	9.4	37.8	79.8	1322.0	444.4	461.2	93.6	56.0	28.7	17.8	13.6	
13	9.8	9.2	38.5	79.8	1588.0	403.8	436.0	89.6	55.3	28.0	17.8	13.4	
14	9.8	9.6	35.7	80.5	1920.8	406.6	416.4	85.6	54.6	27.4	17.8	13.2	
15	9.8	9.6	30.8	91.2	1890.0	382.8	396.8	83.3	53.9	26.8	17.2	13.0	
16	9.8	9.8	31.5	79.8	1089.2	338.8	350.4	82.6	52.5	26.2	17.2	12.8	
17	9.8	10.0	34.3	95.2	586.0	340.0	313.6	80.5	51.1	26.2	17.2	12.8	
18	9.8	10.2	35.0	95.2	603.6	314.8	289.6	79.8	50.4	25.6	17.2	12.8	
19	9.8	10.4	36.4	95.2	555.6	301.6	270.4	79.1	49.7	25.6	16.6	12.6	
20	9.8	10.2	37.8	95.2	486.4	423.4	252.4	78.4	49.0	25.0	16.0	12.6	
21	9.6	10.0	38.5	95.2	427.6	452.8	242.9	77.7	47.6	23.8	15.8	12.4	
22	9.6	9.8	36.4	95.2	398.2	441.6	235.2	76.3	46.2	23.2	15.8	12.2	
23	9.6	8.6	35.0	106.0	503.2	392.6	219.8	74.9	44.1	22.6	15.6	12.0	
24	9.4	8.6	34.3	127.0	664.4	374.4	204.4	73.5	42.7	22.0	15.4	11.8	
25	9.4	10.6	35.7	150.0	674.0	388.4	193.0	71.4	42.0	21.4	15.2	11.6	
26	9.4	11.4	41.3	125.0	693.2	419.2	186.0	69.3	41.3	20.8	15.0	11.4	
27	9.4	13.4	54.6	202.2	789.4	447.2	199.0	67.2	39.9	20.2	14.8	11.4	
28	9.4	49.0	130.0	209.9	798.4	464.0	188.0	65.1	37.8	20.2	14.8	11.2	
29	9.4	72.1	165.0	209.9	1256.0	723.6	168.0	63.0	37.8	20.2		10.8	
30	9.4	57.4	124.0	191.0	1664.6	701.2	154.0	62.3	37.8	19.6		10.6	
31		96.8		183.0	1278.0		144.0		37.8	19.6		10.4	
TOTAL	292.2	540.5	1276.1	3355.7	23973.7	15773.4	13524.2	2716.8	1584.1	834.3	483.2	401.0	64755.1 CMSDAY
MEAN	9.7	17.4	42.5	108.2	773.3	525.8	436.3	90.6	51.1	26.9	17.3	12.9	177.4 CMS
MAX	10.4	96.8	165.0	209.9	1920.8	1055.0	1075.9	141.0	62.3	37.1	19.6	14.8	1920.8 CMS
MIN	9.4	8.6	9.8	76.3	179.0	301.6	144.0	62.3	37.8	19.6	14.8	10.4	8.6 CMS
RUNOFF	25.25	46.70	110.25	289.93	2071.33	1362.82	1168.49	234.73	136.87	72.08	41.75	34.65	5594.84 MCM

MOMENTARY PEAK 2064.02 CMS, AT 88.49 M (MSL), AT 24.00 HOURS, ON AUG 14, 1978

RUNOFF YIELD 43.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 510.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KLONG RIVER BASIN

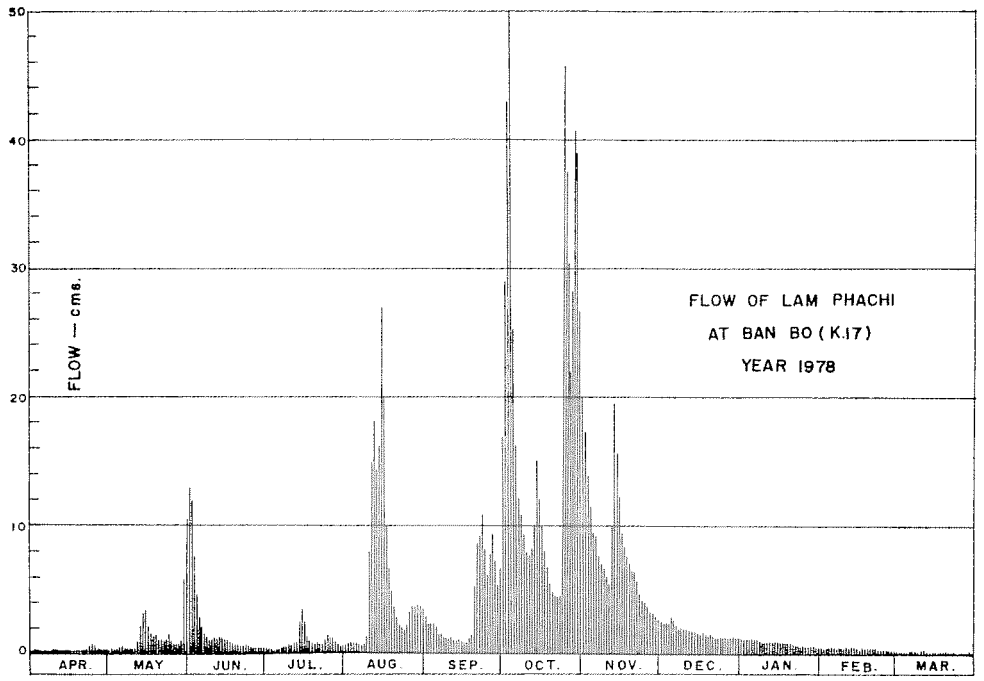
LAM PHACHI AT BAN BO, RATCHABURI (K.17)

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.S.
LOCATION	ALONG THE MEASURING LINE.
ELEVATION	+11.799 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 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 211 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.08	-0.11	1.06	-0.04	0.02	0.35	1.45	1.28	0.32	0.09	-0.05	-0.11	
2	-0.09	-0.09	0.98	-0.06	0.04	0.31	2.09	1.13	0.31	0.08	-0.04	-0.12	
3	-0.12	-0.07	0.65	-0.06	0.05	0.27	2.32	1.02	0.30	0.09	-0.05	-0.12	
4	-0.14	-0.07	0.47	-0.08	0.04	0.28	1.75	0.92	0.30	0.08	-0.05	-0.12	
5	-0.16	-0.06	0.32	-0.08	0.02	0.23	1.30	0.84	0.35	0.07	-0.05	-0.13	
6	-0.17	-0.04	0.24	-0.03	0.00	0.18	1.11	0.83	0.30	0.06	-0.05	-0.12	
7	-0.17	-0.07	0.17	-0.05	-0.01	0.14	1.01	0.73	0.27	0.05	-0.05	-0.11	
8	-0.13	-0.10	0.12	0.00	0.02	0.12	0.94	0.70	0.25	0.05	-0.05	-0.12	
9	-0.10	-0.10	0.08	-0.01	0.16	0.11	0.84	0.66	0.25	0.05	-0.06	-0.11	
10	-0.07	-0.10	0.09	0.00	0.77	0.10	0.76	0.61	0.24	0.04	-0.06	-0.12	
11	-0.19	-0.08	0.11	0.03	1.20	0.09	0.74	0.57	0.23	0.04	-0.06	-0.12	
12	-0.19	0.13	0.11	0.07	1.28	0.07	0.75	0.89	0.22	0.04	-0.06	-0.13	
13	-0.11	0.31	0.10	0.08	1.12	0.06	0.91	1.34	0.21	0.04	-0.05	-0.14	
14	-0.15	0.41	0.09	0.33	1.22	0.06	1.15	1.14	0.20	0.04	-0.06	-0.14	
15	-0.15	0.41	0.06	0.42	1.59	0.05	1.06	0.95	0.18	0.03	-0.07	-0.15	
16	-0.12	0.23	0.05	0.24	1.12	0.06	0.88	0.84	0.17	0.02	-0.07	-0.16	
17	-0.13	0.16	0.02	0.14	0.80	0.06	0.76	0.76	0.16	0.02	-0.05	-0.16	
18	-0.15	0.13	0.00	0.07	0.62	0.16	0.67	0.73	0.16	0.02	-0.06	-0.16	
19	-0.14	0.14	-0.01	0.03	0.50	0.18	0.58	0.69	0.15	0.01	-0.07	-0.16	
20	-0.15	0.07	-0.02	0.00	0.41	0.60	0.56	0.65	0.14	0.01	-0.07	-0.17	
21	-0.10	0.09	-0.02	0.00	0.34	0.83	0.51	0.66	0.14	0.00	-0.08	-0.17	
22	-0.08	0.05	-0.01	0.01	0.27	0.84	0.50	0.56	0.13	0.00	-0.08	-0.17	
23	0.02	0.08	0.01	0.01	0.23	0.93	0.51	0.51	0.13	-0.01	-0.09	-0.18	
24	0.00	0.18	-0.01	0.10	0.22	0.69	1.13	0.48	0.12	-0.01	-0.09	-0.18	
25	-0.04	0.04	-0.03	0.16	0.33	0.62	2.12	0.46	0.13	-0.01	-0.10	-0.18	
26	-0.09	0.00	-0.04	0.13	0.45	0.78	1.78	0.44	0.12	-0.02	-0.11	-0.19	
27	-0.07	0.02	-0.05	0.11	0.43	0.84	1.42	0.40	0.11	-0.03	-0.11	-0.20	
28	-0.09	0.05	-0.06	0.06	0.45	0.66	1.86	0.38	0.11	-0.03	-0.10	-0.12	
29	-0.10	0.10	-0.06	0.02	0.44	0.56	1.99	0.36	0.11	-0.03		-0.14	
30	-0.10	0.64	-0.03	0.00	0.43	0.73	1.69	0.34	0.10	-0.04		-0.15	
31		0.99		-0.01	0.41		1.43		0.09	-0.04		-0.15	
MEAN	-0.11	0.11	0.15	0.05	0.48	0.37	1.18	0.73	0.19	0.02	-0.07	-0.15	
MAX	0.02	0.99	1.06	0.42	1.59	0.93	2.32	1.34	0.35	0.09	-0.04	-0.11	2.32
MIN	-0.19	-0.11	-0.06	-0.08	-0.01	0.05	0.50	0.34	0.09	-0.04	-0.11	-0.20	-0.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.53 M (A.D), AT 12.00 HOURS, ON OCT 25, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.28	13.20	0.54	0.80	2.95	22.70	18.12	2.68	1.15	0.50	0.28	
2	0.34	0.34	11.66	0.46	0.90	2.59	44.51	14.66	2.59	1.10	0.54	0.26	
3	0.26	0.42	6.50	0.46	0.95	2.29	53.82	12.40	2.50	1.15	0.50	0.26	
4	0.22	0.42	4.17	0.38	0.90	2.36	32.10	10.64	2.50	1.10	0.50	0.26	
5	0.18	0.46	2.68	0.38	0.80	2.01	18.60	9.34	2.95	1.05	0.50	0.24	
6	0.16	0.54	2.08	0.58	0.70	1.68	14.22	9.18	2.50	1.00	0.50	0.26	
7	0.16	0.42	1.62	0.50	0.66	1.44	12.20	7.65	2.29	0.95	0.50	0.28	
8	0.24	0.30	1.32	0.70	0.80	1.32	10.98	7.20	2.15	0.95	0.50	0.26	
9	0.30	0.30	1.10	0.66	1.56	1.26	9.34	6.64	2.15	0.95	0.46	0.28	
10	0.42	0.30	1.15	0.70	8.25	1.20	8.10	5.94	2.08	0.90	0.46	0.26	
11	0.12	0.38	1.26	0.85	16.20	1.15	7.80	5.41	2.01	0.90	0.46	0.26	
12	0.12	1.38	1.26	1.05	18.12	1.05	7.95	10.14	1.94	0.90	0.46	0.24	
13	0.28	2.59	1.20	1.10	14.44	1.00	10.47	19.68	1.87	0.90	0.50	0.22	
14	0.20	3.51	1.15	2.77	16.68	1.00	15.10	14.88	1.80	0.90	0.46	0.22	
15	0.20	3.51	1.00	3.62	26.80	0.95	13.20	11.15	1.68	0.85	0.42	0.20	
16	0.26	2.01	0.95	2.08	14.44	1.00	9.98	9.34	1.62	0.80	0.42	0.18	
17	0.24	1.56	0.80	1.44	8.70	1.00	8.10	8.10	1.56	0.80	0.50	0.18	
18	0.20	1.38	0.70	1.05	6.08	1.56	6.78	7.65	1.56	0.80	0.46	0.18	
19	0.22	1.44	0.66	0.85	4.50	1.68	5.54	7.06	1.50	0.75	0.42	0.18	
20	0.20	1.05	0.62	0.70	3.51	5.80	5.28	6.50	1.44	0.75	0.42	0.16	
21	0.30	1.15	0.62	0.70	2.86	9.18	4.63	6.64	1.44	0.70	0.38	0.16	
22	0.38	0.95	0.66	0.75	2.29	9.34	4.50	5.28	1.38	0.70	0.38	0.16	
23	0.80	1.10	0.75	0.75	2.01	10.81	4.63	4.63	1.38	0.66	0.34	0.14	
24	0.70	1.68	0.66	1.20	1.94	7.06	14.66	4.28	1.32	0.66	0.34	0.14	
25	0.54	0.90	0.58	1.56	2.77	6.08	45.70	4.06	1.38	0.66	0.30	0.14	
26	0.34	0.70	0.54	1.38	2.95	8.40	33.12	3.84	1.32	0.62	0.28	0.12	
27	0.42	0.80	0.50	1.26	3.73	9.34	21.86	3.40	1.26	0.58	0.28	0.10	
28	0.34	0.95	0.46	1.00	3.95	6.64	35.90	3.22	1.26	0.58	0.30	0.26	
29	0.30	1.20	0.46	0.80	3.84	5.28	40.63	3.04	1.26	0.58		0.22	
30	0.30	6.36	0.58	0.70	3.73	7.65	30.07	2.86	1.20	0.54		0.20	
31		11.83		0.66	3.51		22.14		1.15	0.54		0.20	
TOTAL	9.12	50.21	60.89	31.63	180.37	115.07	574.61	242.93	55.72	25.47	12.08	6.50	1364.60 CMSDAY
MEAN	0.30	1.62	2.03	1.02	5.82	3.84	18.54	8.10	1.80	0.82	0.43	0.21	3.74 CMS
MAX	0.80	11.83	13.20	3.62	26.80	10.81	53.82	19.68	2.95	1.15	0.54	0.28	53.82 CMS
MIN	0.12	0.28	0.46	0.38	0.66	0.95	4.50	2.86	1.15	0.54	0.28	0.10	0.10 CMS
RUNOFF	0.788	4.338	5.261	2.733	15.584	9.942	49.646	20.989	4.814	2.201	1.044	0.562	117.901 MCM

MOMENTARY PEAK 62.59 CMS, AT 2.53 M (A.D), AT 12.00 HOURS, ON OCT 25, 1978

RUNOFF YIELD 2.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 46.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

MAE KLONG RIVER BASIN

KHWAE YAI AT BAN THA THONG MON, KANCHANABURI (K.20)

LOCATION — LAT. 14°-20'-52" N., LONG. 99°-10'-45" E., ON RIGHT BANK AT BAN THA THUNG MON, TAMBON THA KRADAN, AMPHOE SI SAWAT, KANCHANABURI.

DRAINAGE AREA — 11,184 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +44.50M.(M.S.L.)

BENCH MARK — B.M.-H.S.

LOCATION — ON RIGHT BANK ALONG GAGE LINE.

ELEVATION — +60.932 M.(M.S.L.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 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 — 1966-1976

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966-1976

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

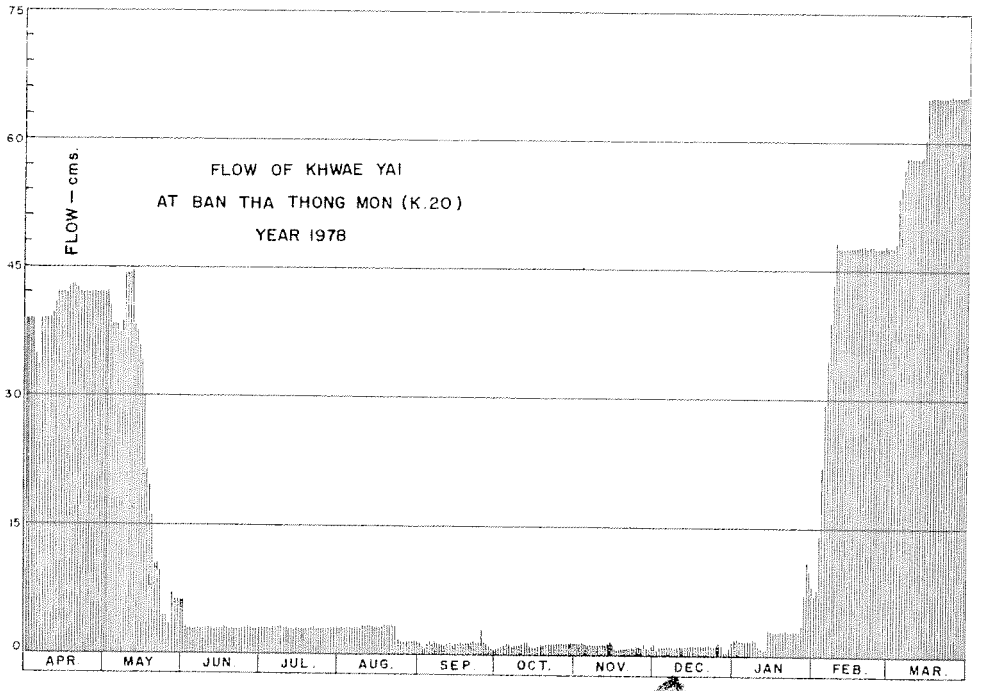
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 862 DISCHARGE MEASUREMENTS MADE DURING 1966-1970.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	45.65	45.70	45.01	44.85	44.85	44.72	44.69	44.73	44.73	44.80	45.04	45.77	
2	45.65	45.70	44.84	44.85	44.85	44.71	44.71	44.73	44.67	44.78	45.09	45.77	
3	45.62	45.67	44.84	44.85	44.85	44.67	44.71	44.72	44.70	44.78	45.32	45.78	
4	45.56	45.64	44.84	44.85	44.85	44.74	44.73	44.72	44.70	44.77	45.48	45.84	
5	45.56	45.64	44.84	44.85	44.85	44.74	44.73	44.72	44.70	44.78	45.51	45.86	
6	45.65	45.64	44.85	44.85	44.85	44.74	44.73	44.71	44.71	44.78	45.63	45.90	
7	45.65	45.62	44.85	44.85	44.85	44.73	44.70	44.71	44.71	44.78	45.68	45.90	
8	45.65	45.66	44.85	44.85	44.85	44.72	44.71	44.71	44.71	44.80	45.74	45.90	
9	45.65	45.73	44.85	44.85	44.85	44.71	44.71	44.71	44.71	44.78	45.78	45.90	
10	45.65	45.73	44.85	44.85	44.86	44.71	44.73	44.71	44.71	44.72	45.77	45.90	
11	45.67	45.73	44.85	44.86	44.86	44.71	44.73	44.71	44.71	44.69	45.77	45.90	
12	45.70	45.73	44.85	44.85	44.86	44.75	44.75	44.71	44.71	44.66	45.77	45.90	
13	45.70	45.63	44.85	44.85	44.86	44.74	44.76	44.72	44.71	44.67	45.77	45.90	
14	45.70	45.63	44.84	44.85	44.86	44.70	44.71	44.73	44.71	44.84	45.77	45.90	
15	45.70	45.59	44.84	44.85	44.86	44.73	44.70	44.75	44.71	44.84	45.77	45.90	
16	45.70	45.56	44.84	44.85	44.86	44.74	44.71	44.71	44.71	44.84	45.77	45.90	
17	45.71	45.41	44.86	44.85	44.86	44.74	44.72	44.66	44.71	44.84	45.77	45.90	
18	45.71	45.33	44.85	44.85	44.87	44.74	44.72	44.69	44.71	44.84	45.77	45.90	
19	45.71	45.33	44.85	44.85	44.87	44.74	44.72	44.70	44.71	44.84	45.77	45.92	
20	45.71	45.24	44.85	44.85	44.87	44.75	44.72	44.70	44.71	44.84	45.77	45.99	
21	45.71	45.13	44.85	44.85	44.87	44.77	44.73	44.70	44.71	44.84	45.77	45.99	
22	45.70	45.13	44.85	44.85	44.87	44.77	44.74	44.70	44.71	44.84	45.77	45.99	
23	45.70	45.11	44.85	44.85	44.87	44.75	44.73	44.70	44.71	44.84	45.77	45.99	
24	45.70	44.92	44.85	44.85	44.75	44.75	44.73	44.71	44.71	44.84	45.77	45.99	
25	45.70	44.92	44.85	44.85	44.75	44.85	44.73	44.71	44.76	44.84	45.77	45.99	
26	45.70	44.84	44.85	44.85	44.75	44.77	44.73	44.71	44.73	44.84	45.77	45.99	
27	45.70	45.04	44.85	44.85	44.75	44.73	44.73	44.77	44.72	44.90	45.77	45.99	
28	45.70	45.01	44.85	44.85	44.75	44.70	44.73	44.73	44.62	45.12	45.77	45.99	
29	45.70	45.01	44.85	44.85	44.75	44.67	44.73	44.67	44.65	45.15		45.99	
30	45.70	45.01	44.85	44.85	44.75	44.66	44.75	44.73	44.72	45.26		45.99	
31		45.01		44.85	44.75		44.75		44.78	45.04		45.99	
MEAN	45.68	45.39	44.85	44.85	44.83	44.73	44.72	44.71	44.71	44.84	45.67	45.92	
MAX	45.71	45.73	45.01	44.86	44.87	44.85	44.76	44.77	44.78	45.26	45.78	45.99	45.99
MIN	45.56	44.84	44.84	44.85	44.75	44.66	44.69	44.66	44.62	44.66	45.04	45.77	44.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 45.99 M (MSL), AT 18.00 HOURS, ON MAR 31, 1978
ZERO GAGE AT BOTTOM ELEVATION 44.50 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 11184 SQUARE KILOMETERS

SWSA 2013



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	39.00	42.00	6.30	3.00	3.00	1.20	0.90	1.30	1.30	2.00	7.20	47.60	
2	39.00	42.00	2.80	3.00	3.00	1.10	1.10	1.30	0.70	1.80	8.70	47.60	
3	37.20	40.20	2.80	3.00	3.00	0.70	1.10	1.20	1.00	1.80	19.20	48.40	
4	33.60	38.40	2.80	3.00	3.00	1.40	1.30	1.20	1.00	1.70	28.80	53.20	
5	33.60	38.40	2.80	3.00	3.00	1.40	1.30	1.20	1.00	1.80	30.60	54.80	
6	39.00	38.40	3.00	3.00	3.00	1.40	1.30	1.10	1.10	1.80	37.80	58.00	
7	39.00	37.20	3.00	3.00	3.00	1.30	1.00	1.10	1.10	1.80	40.80	58.00	
8	39.00	39.60	3.00	3.00	3.00	1.20	1.10	1.10	1.10	2.00	45.20	58.00	
9	39.00	44.40	3.00	3.00	3.00	1.10	1.10	1.10	1.10	1.80	48.40	58.00	
10	39.00	44.40	3.00	3.00	3.20	1.10	1.30	1.10	1.10	1.20	47.60	58.00	
11	40.20	44.40	3.00	3.20	3.20	1.10	1.30	1.10	1.10	0.90	47.60	58.00	
12	42.00	44.40	3.00	3.00	3.20	1.50	1.50	1.10	1.10	0.60	47.60	58.00	
13	42.00	37.80	3.00	3.00	3.20	1.40	1.60	1.20	1.10	0.70	47.60	58.00	
14	42.00	37.80	2.80	3.00	3.20	1.00	1.10	1.30	1.10	2.80	47.60	58.00	
15	42.00	35.40	2.80	3.00	3.20	1.30	1.00	1.50	1.10	2.80	47.60	58.00	
16	42.00	33.60	2.80	3.00	3.20	1.40	1.10	1.10	1.10	2.80	47.60	58.00	
17	42.80	24.60	3.20	3.00	3.20	1.40	1.20	0.60	1.10	2.80	47.60	58.00	
18	42.80	19.80	3.00	3.00	3.40	1.40	1.20	0.90	1.10	2.80	47.60	58.00	
19	42.80	19.80	3.00	3.00	3.40	1.40	1.20	1.00	1.10	2.80	47.60	59.60	
20	42.80	15.00	3.00	3.00	3.40	1.50	1.20	1.00	1.10	2.80	47.60	65.20	
21	42.80	10.20	3.00	3.00	3.40	1.70	1.30	1.00	1.10	2.80	47.60	65.20	
22	42.00	10.20	3.00	3.00	3.40	1.70	1.40	1.00	1.10	2.80	47.60	65.20	
23	42.00	9.40	3.00	3.00	3.40	1.50	1.30	1.00	1.10	2.80	47.60	65.20	
24	42.00	4.40	3.00	3.00	1.50	1.50	1.30	1.10	1.10	2.80	47.60	65.20	
25	42.00	4.40	3.00	3.00	1.50	3.00	1.30	1.10	1.60	2.80	47.60	65.20	
26	42.00	2.80	3.00	3.00	1.50	1.70	1.30	1.10	1.30	2.80	47.60	65.20	
27	42.00	7.20	3.00	3.00	1.50	1.30	1.30	1.70	1.20	4.00	47.60	65.20	
28	42.00	6.30	3.00	3.00	1.50	1.00	1.30	1.30	0.20	9.80	47.60	65.20	
29	42.00	6.30	3.00	3.00	1.50	0.70	1.30	0.70	0.50	11.00		65.20	
30	42.00	6.30	3.00	3.00	1.50	0.60	1.50	1.30	1.20	16.00		65.20	
31		6.30		3.00	1.50		1.50		1.80	7.20		65.20	
TOTAL	1219.60	791.40	92.10	93.20	85.00	40.00	38.70	33.80	33.70	104.30	1171.10	1847.60	5550.49 CMSDAY
MEAN	40.65	25.53	3.07	3.01	2.74	1.33	1.25	1.13	1.09	3.36	41.82	59.60	15.21 CMS
MAX	42.80	44.40	6.30	3.20	3.40	3.00	1.60	1.70	1.80	16.00	48.40	65.20	65.20 CMS
MIN	33.60	2.80	2.80	3.00	1.50	0.60	0.90	0.60	0.20	0.60	7.20	47.60	0.20 CMS
RUNOFF	105.373	68.377	7.957	8.052	7.344	3.456	3.344	2.920	2.912	9.012	101.183	159.633	479.563 MCM

MOMENTARY PEAK 65.20 CMS, AT 45.99 M (MSL), AT 18.00 HOURS, ON MAR 31, 1978

RUNOFF YIELD 1.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 5.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — NEAR THE METEOROLOGICAL STATION.

ELEVATION — +76.874 M. (M.S.L.)

GAGE READING FREQUENCY — 16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969 TO DATE.

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

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +72.10 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 64 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

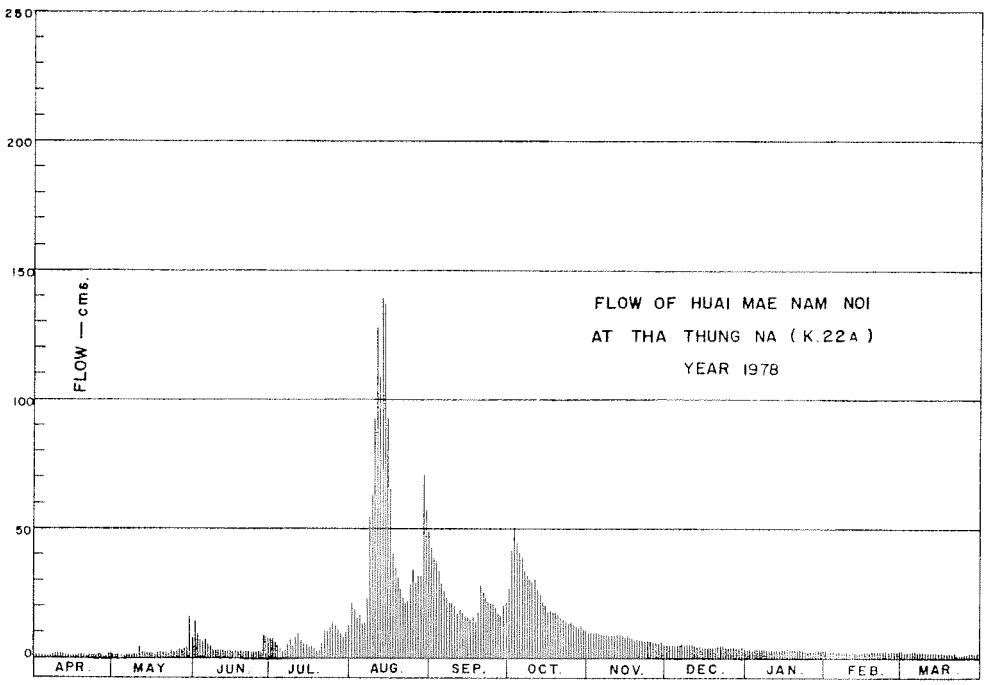
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	67.13	67.11	67.87	67.58	68.12	68.84	68.42	67.68	67.44	67.35	67.29	67.23	
2	67.13	67.11	67.62	67.46	68.06	68.75	68.94	67.67	67.44	67.35	67.29	67.23	
3	67.13	67.11	67.50	67.37	67.90	68.68	69.10	67.66	67.44	67.35	67.29	67.23	
4	67.13	67.11	67.45	67.35	67.97	68.55	68.90	67.65	67.44	67.35	67.29	67.23	
5	67.13	67.13	67.52	67.26	67.88	68.37	68.83	67.64	67.43	67.35	67.28	67.23	
6	67.13	67.13	67.41	67.33	67.81	68.32	68.76	67.63	67.43	67.35	67.28	67.23	
7	67.13	67.13	67.34	67.39	68.10	68.22	68.57	67.62	67.43	67.35	67.28	67.23	
8	67.13	67.13	67.30	67.51	69.28	68.14	68.53	67.61	67.43	67.34	67.28	67.23	
9	67.13	67.13	67.28	67.37	69.53	68.13	68.45	67.61	67.43	67.34	67.27	67.22	
10	67.12	67.13	67.27	67.60	70.45	68.04	68.41	67.61	67.42	67.34	67.27	67.22	
11	67.12	67.36	67.26	67.64	71.15	67.99	68.45	67.60	67.42	67.33	67.26	67.21	
12	67.13	67.24	67.25	67.49	70.64	68.00	68.31	67.60	67.42	67.33	67.26	67.21	
13	67.13	67.19	67.25	67.44	71.42	67.99	68.24	67.60	67.41	67.33	67.26	67.21	
14	67.13	67.18	67.25	67.41	71.36	67.94	68.14	67.59	67.40	67.32	67.26	67.21	
15	67.13	67.17	67.25	67.38	70.04	67.90	68.08	67.58	67.40	67.32	67.25	67.21	
16	67.13	67.17	67.23	67.35	69.23	67.90	68.02	67.57	67.39	67.32	67.25	67.21	
17	67.13	67.17	67.23	67.32	68.80	67.94	68.00	67.55	67.39	67.32	67.25	67.21	
18	67.13	67.25	67.23	67.38	68.63	67.86	67.98	67.53	67.38	67.32	67.25	67.21	
19	67.13	67.26	67.23	67.27	68.41	68.02	67.95	67.52	67.38	67.32	67.25	67.21	
20	67.13	67.23	67.26	67.36	68.30	68.39	67.92	67.51	67.38	67.31	67.25	67.21	
21	67.13	67.21	67.25	67.65	68.21	68.28	67.89	67.50	67.38	67.31	67.25	67.21	
22	67.13	67.20	67.24	67.72	68.13	68.17	67.87	67.49	67.38	67.31	67.25	67.21	
23	67.13	67.23	67.25	67.69	68.17	68.15	67.84	67.49	67.37	67.31	67.25	67.21	
24	67.13	67.29	67.25	67.83	68.54	68.14	67.83	67.48	67.37	67.30	67.25	67.21	
25	67.12	67.32	67.25	67.80	68.60	68.14	67.80	67.47	67.37	67.30	67.24	67.21	
26	67.12	67.32	67.35	67.74	68.43	68.03	67.78	67.46	67.37	67.30	67.24	67.21	
27	67.12	67.27	67.28	67.59	68.54	67.94	67.78	67.46	67.37	67.30	67.23	67.21	
28	67.11	67.33	67.57	67.61	68.47	67.94	67.75	67.45	67.36	67.30	67.23	67.21	
29	67.11	67.36	67.53	67.57	69.66	68.12	67.72	67.44	67.36	67.29		67.21	
30	67.11	67.98	67.47	67.71	69.35	68.13	67.69	67.44	67.35	67.29		67.21	
31		67.56		67.77	68.99		67.69		67.35	67.29		67.21	
MEAN	67.13	67.24	67.35	67.51	68.97	68.17	68.18	67.56	67.40	67.32	67.26	67.22	
MAX	67.13	67.98	67.87	67.83	71.42	68.84	69.10	67.68	67.44	67.35	67.29	67.23	71.42
MIN	67.11	67.11	67.23	67.26	67.81	67.86	67.69	67.44	67.35	67.29	67.23	67.21	67.11

ANNUAL MAX MOMENTARY GAGE HEIGHT — 72.12 M (MSL), AT 24.00 HOURS, ON AUG 13, 1978

ZERO GAGE AT BOTTOM ELEVATION — 66.70 M (MSL), RIVER BED — 67.13 M (MSL)

LEFT BANK ELEVATION — 74.71 M (MSL)

RIGHT BANK ELEVATION — 70.56 M (MSL), DRAINAGE AREA — 321 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.90	0.70	14.48	8.00	20.72	41.88	29.08	10.16	5.20	3.60	2.68	1.96	
2	0.90	0.70	8.84	5.60	19.16	39.00	45.08	9.94	5.20	3.60	2.68	1.96	
3	0.90	0.70	6.40	3.92	15.20	36.78	50.30	9.72	5.20	3.60	2.68	1.96	
4	0.90	0.70	5.40	3.60	16.88	32.85	43.80	9.50	5.20	3.60	2.68	1.96	
5	0.90	0.90	6.80	2.32	14.72	27.63	41.56	9.28	5.00	3.60	2.56	1.96	
6	0.90	0.90	4.60	3.28	13.04	26.18	39.32	9.06	5.00	3.60	2.56	1.96	
7	0.90	0.90	3.44	4.24	20.20	23.36	33.43	8.84	5.00	3.60	2.56	1.96	
8	0.90	0.90	2.80	6.60	56.32	21.24	32.27	8.62	5.00	3.44	2.56	1.96	
9	0.90	0.90	2.56	3.92	65.05	20.98	29.95	8.62	5.00	3.44	2.44	1.84	
10	0.80	0.90	2.44	8.40	99.35	18.64	28.79	8.62	4.80	3.44	2.44	1.84	
11	0.80	3.76	2.32	9.28	127.60	17.36	29.95	8.40	4.80	3.28	2.32	1.72	
12	0.90	2.08	2.20	6.20	106.90	17.60	25.89	8.40	4.80	3.28	2.32	1.72	
13	0.90	1.50	2.20	5.20	139.21	17.36	23.92	8.40	4.60	3.28	2.32	1.72	
14	0.90	1.40	2.20	4.60	136.62	16.16	21.24	8.20	4.40	3.12	2.32	1.72	
15	0.90	1.30	2.20	4.08	83.52	15.20	19.68	8.00	4.40	3.12	2.20	1.72	
16	0.90	1.30	1.96	3.60	54.62	15.20	18.12	7.80	4.24	3.12	2.20	1.72	
17	0.90	1.30	1.96	3.12	40.60	16.16	17.60	7.40	4.24	3.12	2.20	1.72	
18	0.90	2.20	1.96	4.08	35.23	14.24	17.12	7.00	4.08	3.12	2.20	1.72	
19	0.90	2.32	1.96	2.44	28.79	18.12	16.40	6.80	4.08	3.12	2.20	1.72	
20	0.90	1.96	2.32	3.76	25.60	28.21	15.68	6.60	4.08	2.96	2.20	1.72	
21	0.90	1.72	2.20	9.50	23.08	25.04	14.96	6.40	4.08	2.96	2.20	1.72	
22	0.90	1.60	2.08	11.04	20.98	22.02	14.48	6.20	4.08	2.96	2.20	1.72	
23	0.90	1.96	2.20	10.38	22.02	21.50	13.76	6.20	3.92	2.96	2.20	1.72	
24	0.90	2.68	2.20	13.52	32.56	21.24	13.52	6.00	3.92	2.80	2.20	1.72	
25	0.80	3.12	2.20	12.80	34.30	21.24	12.80	5.80	3.92	2.80	2.08	1.72	
26	0.80	3.12	3.60	11.48	29.37	18.38	12.36	5.60	3.92	2.80	2.08	1.72	
27	0.80	2.44	2.56	8.20	32.56	16.16	12.36	5.60	3.92	2.80	1.96	1.72	
28	0.70	3.28	7.80	8.62	30.53	16.16	11.70	5.40	3.76	2.80	1.96	1.72	
29	0.70	3.76	7.00	7.80	69.60	20.72	11.04	5.20	3.76	2.68		1.72	
30	0.70	17.12	5.80	10.82	58.75	20.98	10.38	5.20	3.60	2.68		1.72	
31		7.60		12.14	46.68		10.38		3.60	2.68		1.72	
TOTAL	25.90	75.72	116.68	212.54	1510.76	667.59	716.92	226.96	136.80	97.96	65.20	55.48	3917.50 CMSDAY
MEAN	0.86	2.44	3.89	6.86	49.02	22.25	23.13	7.57	4.41	3.16	2.33	1.79	10.73 CMS
MAX	0.90	17.12	14.48	13.52	139.21	41.88	50.30	10.16	5.20	3.60	2.68	1.96	139.21 CMS
MIN	0.70	0.70	1.96	2.32	13.04	14.24	10.38	5.20	3.60	2.68	1.96	1.72	0.70 CMS
RUNOFF	2.238	6.542	10.081	18.363	131.307	57.680	61.942	19.609	11.820	8.464	5.633	4.793	338.472 MCM

MOMENTARY PEAK 170.32 CMS, AT 72.12 M (MSL), AT 24.00 HOURS, ON AUG 13, 1978

RUNOFF YIELD 33.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 530.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 FAIR. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

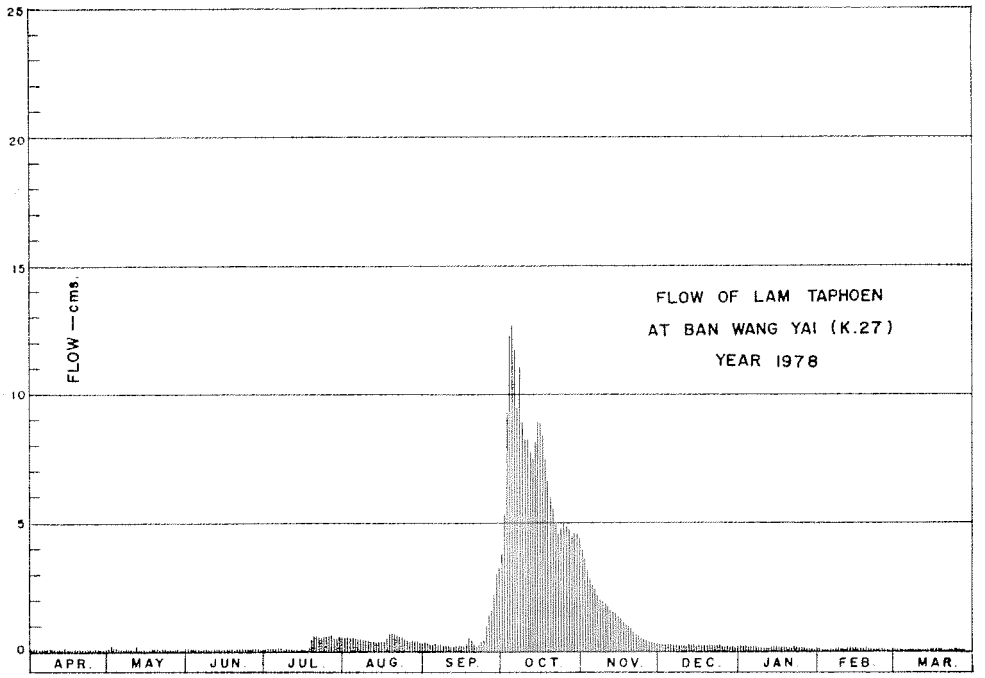
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.61	0.62	0.68	0.69	1.07	0.95	2.22	2.27	0.93	0.80	0.68	0.63	
2	0.61	0.62	0.68	0.71	1.07	0.95	2.48	2.15	0.92	0.80	0.68	0.63	
3	0.61	0.62	0.68	0.72	1.06	0.93	3.35	2.05	0.92	0.80	0.68	0.63	
4	0.61	0.69	0.68	0.72	1.04	0.92	4.02	1.98	0.91	0.79	0.68	0.62	
5	0.61	0.67	0.68	0.71	1.03	0.92	4.09	1.89	0.90	0.79	0.67	0.63	
6	0.61	0.67	0.68	0.73	1.03	0.90	3.92	1.81	0.89	0.78	0.67	0.63	
7	0.61	0.67	0.68	0.73	1.01	0.89	3.69	1.75	0.88	0.78	0.66	0.63	
8	0.61	0.67	0.69	0.73	1.00	0.88	3.53	1.69	0.88	0.78	0.66	0.62	
9	0.61	0.67	0.69	0.71	0.99	0.87	3.38	1.64	0.88	0.77	0.65	0.62	
10	0.61	0.69	0.69	0.73	0.98	0.86	3.28	1.59	0.87	0.77	0.65	0.62	
11	0.61	0.67	0.68	0.73	0.97	0.84	3.28	1.54	0.86	0.77	0.65	0.62	
12	0.61	0.80	0.69	0.71	0.97	0.84	3.18	1.50	0.85	0.76	0.65	0.63	
13	0.61	0.71	0.69	0.70	0.97	0.84	3.13	1.47	0.85	0.77	0.65	0.62	
14	0.61	0.73	0.69	0.70	0.96	0.83	3.31	1.43	0.85	0.77	0.64	0.62	
15	0.61	0.70	0.69	0.71	0.96	0.83	3.43	1.40	0.84	0.75	0.63	0.62	
16	0.61	0.69	0.69	0.70	0.98	0.84	3.42	1.35	0.84	0.74	0.64	0.63	
17	0.61	0.69	0.69	0.70	1.02	0.93	3.28	1.32	0.84	0.74	0.65	0.62	
18	0.61	0.71	0.70	0.74	1.13	1.05	3.07	1.29	0.83	0.73	0.65	0.62	
19	0.61	0.73	0.70	1.06	1.15	1.00	2.87	1.26	0.83	0.73	0.64	0.62	
20	0.61	0.69	0.70	1.08	1.12	0.85	2.77	1.21	0.83	0.73	0.64	0.62	
21	0.61	0.66	0.70	1.09	1.09	0.85	2.66	1.17	0.83	0.72	0.63	0.63	
22	0.60	0.72	0.69	1.09	1.07	0.95	2.50	1.13	0.83	0.72	0.63	0.62	
23	0.61	0.74	0.70	1.08	1.06	1.04	2.44	1.09	0.83	0.71	0.63	0.61	
24	0.61	0.67	0.69	1.07	1.04	1.01	2.48	1.06	0.83	0.71	0.63	0.61	
25	0.61	0.67	0.70	1.06	1.03	1.28	2.54	1.02	0.83	0.71	0.63	0.61	
26	0.61	0.68	0.69	1.05	1.02	1.47	2.49	1.01	0.83	0.71	0.63	0.61	
27	0.61	0.69	0.70	1.05	1.00	1.54	2.44	0.99	0.82	0.71	0.63	0.61	
28	0.61	0.68	0.70	1.04	1.00	1.78	2.41	0.97	0.82	0.70	0.63	0.62	
29	0.61	0.68	0.70	1.06	0.99	2.04	2.43	0.96	0.82	0.70		0.62	
30	0.62	0.68	0.70	1.09	0.97	2.10	2.43	0.95	0.81	0.69		0.62	
31		0.68		1.08	0.96		2.36		0.81	0.68		0.61	
MEAN	0.61	0.69	0.69	0.86	1.02	1.07	3.00	1.43	0.85	0.75	0.65	0.62	
MAX	0.62	0.80	0.70	1.09	1.15	2.10	4.09	2.27	0.93	0.80	0.68	0.63	4.09
MIN	0.60	0.62	0.68	0.69	0.96	0.83	2.22	0.95	0.81	0.68	0.63	0.61	0.60

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.14 M (A.D), AT 24.00 HOURS, ON OCT 4, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.50 M (A.D)

LEFT BANK ELEVATION — 6.30 M (A.D)

RIGHT BANK ELEVATION — 7.48 M (A.D), DRAINAGE AREA — 1921 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.06	0.09	0.09	0.59	0.37	3.78	3.98	0.34	0.20	0.09	0.07	
2	0.05	0.06	0.09	0.11	0.59	0.37	4.82	3.50	0.33	0.20	0.09	0.07	
3	0.05	0.06	0.09	0.12	0.57	0.34	8.55	3.15	0.33	0.20	0.09	0.07	
4	0.05	0.09	0.09	0.12	0.53	0.33	12.22	2.94	0.31	0.19	0.09	0.06	
5	0.05	0.08	0.09	0.11	0.51	0.33	12.64	2.67	0.30	0.19	0.08	0.07	
6	0.05	0.08	0.09	0.13	0.51	0.30	11.62	2.43	0.29	0.18	0.08	0.07	
7	0.05	0.08	0.09	0.13	0.47	0.29	10.25	2.25	0.28	0.18	0.08	0.07	
8	0.05	0.08	0.09	0.13	0.45	0.28	9.45	2.07	0.28	0.18	0.08	0.06	
9	0.05	0.08	0.09	0.11	0.43	0.27	8.70	1.95	0.28	0.17	0.07	0.06	
10	0.05	0.09	0.09	0.13	0.42	0.26	8.20	1.82	0.27	0.17	0.07	0.06	
11	0.05	0.08	0.09	0.13	0.40	0.24	8.20	1.70	0.26	0.17	0.07	0.06	
12	0.05	0.20	0.09	0.11	0.40	0.24	7.70	1.60	0.25	0.16	0.07	0.07	
13	0.05	0.11	0.09	0.10	0.40	0.24	7.45	1.52	0.25	0.17	0.07	0.06	
14	0.05	0.13	0.09	0.10	0.39	0.23	8.35	1.42	0.25	0.17	0.07	0.06	
15	0.05	0.10	0.09	0.11	0.39	0.23	8.95	1.35	0.24	0.15	0.07	0.06	
16	0.05	0.09	0.09	0.10	0.42	0.24	8.90	1.23	0.24	0.14	0.07	0.07	
17	0.05	0.09	0.09	0.10	0.49	0.34	8.20	1.15	0.24	0.14	0.07	0.06	
18	0.05	0.11	0.10	0.14	0.71	0.55	7.18	1.08	0.23	0.13	0.07	0.06	
19	0.05	0.13	0.10	0.57	0.75	0.45	6.38	1.00	0.23	0.13	0.07	0.06	
20	0.05	0.09	0.10	0.61	0.69	0.25	5.98	0.87	0.23	0.13	0.07	0.06	
21	0.05	0.08	0.10	0.63	0.63	0.25	5.54	0.79	0.23	0.12	0.07	0.07	
22	0.05	0.12	0.09	0.63	0.59	0.37	4.90	0.71	0.23	0.12	0.07	0.06	
23	0.05	0.14	0.10	0.61	0.57	0.53	4.66	0.63	0.23	0.11	0.07	0.05	
24	0.05	0.08	0.09	0.59	0.53	0.47	4.82	0.57	0.23	0.11	0.07	0.05	
25	0.05	0.08	0.10	0.57	0.51	1.05	5.06	0.49	0.23	0.11	0.07	0.05	
26	0.05	0.09	0.09	0.55	0.49	1.52	4.86	0.47	0.23	0.11	0.07	0.05	
27	0.05	0.09	0.10	0.55	0.45	1.70	4.66	0.43	0.22	0.11	0.07	0.05	
28	0.05	0.09	0.10	0.53	0.45	2.34	4.54	0.40	0.22	0.10	0.07	0.06	
29	0.05	0.09	0.10	0.57	0.43	3.12	4.62	0.39	0.22	0.10		0.06	
30	0.06	0.09	0.10	0.63	0.40	3.30	4.62	0.37	0.21	0.09		0.06	
31		0.09		0.61	0.39		4.34		0.21	0.09		0.05	
TOTAL	1.51	2.93	2.80	9.72	15.55	20.80	220.14	44.93	7.89	4.52	2.08	1.89	334.76 CMSDAY
MEAN	0.05	0.09	0.09	0.31	0.50	0.69	7.10	1.50	0.25	0.15	0.07	0.06	0.92 CMS
MAX	0.06	0.20	0.10	0.63	0.75	3.30	12.64	3.98	0.34	0.20	0.09	0.07	12.64 CMS
MIN	0.05	0.06	0.09	0.09	0.39	0.23	3.78	0.37	0.21	0.09	0.07	0.05	0.05 CMS
RUNOFF	0.130	0.253	0.242	0.840	1.344	1.797	19.020	3.882	0.682	0.391	0.180	0.163	28.923 MCM

MOMENTARY PEAK 12.94 CMS, AT 4.14 M (A.D), AT 24.00 HOURS, ON OCT 4, 1978

RUNOFF YIELD 0.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 6.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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 WITH VARIABLE WATER SURFACE SLOPE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

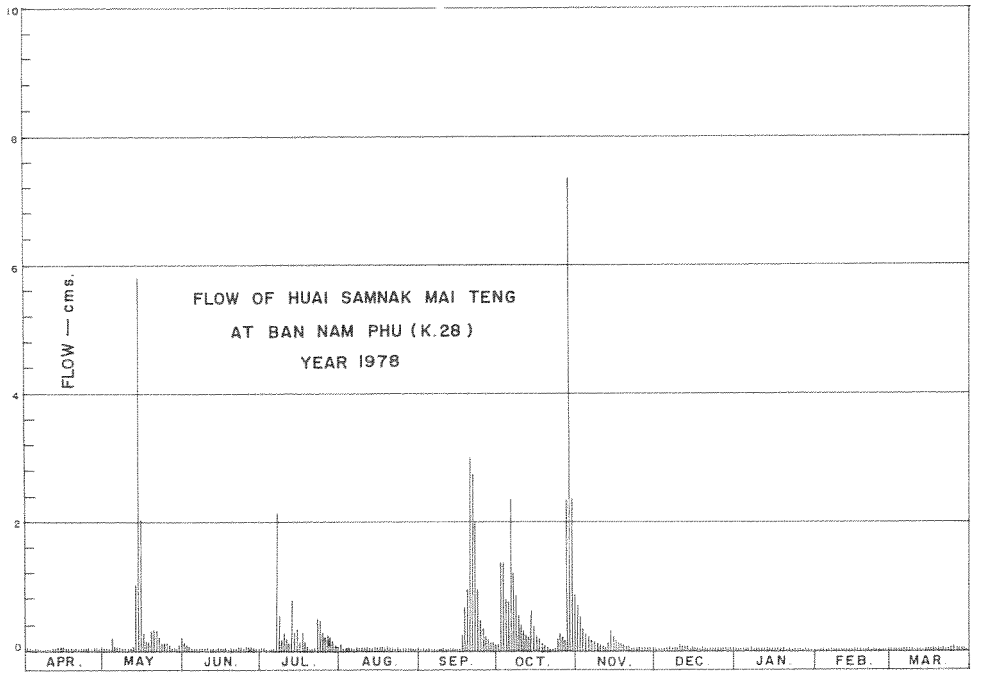
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	0.58	0.82	0.69	0.81	0.73	0.84	1.06	0.75	0.72	0.54	0.28	
2	0.53	0.57	0.78	0.69	0.80	0.73	1.28	0.99	0.75	0.72	0.53	0.27	
3	0.51	0.66	0.76	0.72	0.79	0.73	1.28	0.93	0.75	0.73	0.53	0.27	
4	0.49	0.87	0.75	0.72	0.78	0.73	1.12	0.89	0.75	0.73	0.52	0.26	
5	0.47	0.74	0.74	0.76	0.78	0.72	1.11	0.86	0.75	0.73	0.51	0.25	
6	0.46	0.72	0.74	0.78	0.77	0.72	1.49	0.85	0.74	0.73	0.50	0.25	
7	0.44	0.73	0.75	1.41	0.77	0.71	1.22	0.84	0.74	0.73	0.49	0.24	
8	0.43	0.72	0.75	1.06	0.76	0.71	1.15	0.83	0.74	0.73	0.48	0.24	
9	0.41	0.71	0.73	0.87	0.77	0.71	1.04	0.82	0.75	0.73	0.47	0.23	
10	0.40	0.71	0.72	0.92	0.77	0.72	0.97	0.81	0.75	0.72	0.46	0.22	
11	0.39	0.72	0.72	0.84	0.77	0.73	0.92	0.80	0.75	0.72	0.45	0.19	
12	0.37	0.73	0.72	0.85	0.77	0.73	0.90	0.80	0.74	0.72	0.43	0.19	
13	0.37	1.30	0.72	1.12	0.77	0.73	0.88	0.93	0.74	0.72	0.42	0.18	
14	0.36	2.01	0.71	0.90	0.77	0.73	1.09	0.92	0.74	0.72	0.41	0.17	
15	0.38	1.08	0.71	0.94	0.77	0.73	0.95	0.87	0.74	0.72	0.40	0.16	
16	0.37	0.91	0.71	0.85	0.76	0.76	0.89	0.85	0.73	0.72	0.39	0.15	
17	0.36	0.84	0.71	0.92	0.76	0.92	0.85	0.83	0.73	0.71	0.38	0.14	
18	0.34	0.82	0.71	0.84	0.76	1.15	0.83	0.81	0.73	0.71	0.37	0.14	
19	0.33	0.94	0.72	0.79	0.76	1.20	0.81	0.80	0.73	0.70	0.36	0.12	
20	0.32	0.93	0.72	0.76	0.76	1.62	0.80	0.79	0.72	0.70	0.35	0.11	
21	0.31	0.93	0.72	0.75	0.75	1.57	0.80	0.79	0.72	0.68	0.34	0.09	
22	0.48	0.87	0.72	0.80	0.75	1.28	0.79	0.79	0.72	0.67	0.33	0.08	
23	0.73	0.81	0.72	1.03	0.74	1.13	0.83	0.78	0.72	0.65	0.32	0.08	
24	0.70	0.83	0.72	1.01	0.74	1.02	0.92	0.78	0.72	0.64	0.31	0.07	
25	0.68	0.82	0.72	0.88	0.74	0.94	0.90	0.77	0.72	0.62	0.30	0.06	
26	0.65	0.78	0.71	0.89	0.74	0.89	0.88	0.76	0.72	0.61	0.30	0.05	
27	0.63	0.76	0.71	0.89	0.74	0.86	0.86	0.76	0.72	0.60	0.29	0.04	
28	0.62	0.75	0.71	0.85	0.74	0.83	2.20	0.76	0.72	0.59	0.28	0.15	
29	0.60	0.75	0.70	0.82	0.73	0.82	1.47	0.76	0.72	0.58		0.70	
30	0.59	0.83	0.70	0.80	0.73	0.81	1.23	0.75	0.72	0.56		0.63	
31		0.87		0.81	0.73		1.12		0.72	0.55		0.59	
MEAN	0.48	0.85	0.73	0.87	0.76	0.89	1.05	0.83	0.73	0.68	0.41	0.21	
MAX	0.73	2.01	0.82	1.41	0.81	1.62	2.20	1.06	0.75	0.73	0.54	0.70	2.20
MIN	0.31	0.57	0.70	0.69	0.73	0.71	0.79	0.75	0.72	0.55	0.28	0.04	0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.20 M (A.D), AT 6.00 HOURS, ON OCT 28, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.72 M (A.D)
LEFT BANK ELEVATION 5.36 M (A.D)
RIGHT BANK ELEVATION 5.77 M (A.D), DRAINAGE AREA 183 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.09	0.00	0.07	0.01	0.13	0.60	0.03	0.01	0.00	0.00	
2	0.00	0.00	0.04	0.00	0.05	0.01	1.37	0.43	0.03	0.01	0.00	0.00	
3	0.00	0.00	0.03	0.01	0.04	0.01	1.37	0.31	0.03	0.01	0.00	0.00	
4	0.00	0.19	0.03	0.01	0.04	0.01	0.77	0.23	0.03	0.01	0.00	0.00	
5	0.00	0.02	0.02	0.03	0.04	0.01	0.73	0.17	0.03	0.01	0.00	0.00	
6	0.00	0.01	0.02	0.04	0.04	0.01	2.35	0.15	0.02	0.01	0.00	0.00	
7	0.00	0.01	0.03	1.95	0.04	0.00	1.13	0.13	0.02	0.01	0.00	0.00	
8	0.00	0.01	0.03	0.60	0.03	0.00	0.87	0.11	0.02	0.01	0.00	0.00	
9	0.00	0.00	0.01	0.19	0.04	0.00	0.55	0.09	0.03	0.01	0.00	0.00	
10	0.00	0.00	0.01	0.29	0.04	0.01	0.39	0.07	0.03	0.01	0.00	0.00	
11	0.00	0.01	0.01	0.13	0.04	0.01	0.29	0.05	0.03	0.01	0.00	0.00	
12	0.00	0.01	0.01	0.15	0.04	0.01	0.25	0.05	0.02	0.01	0.00	0.00	
13	0.00	1.45	0.01	0.77	0.04	0.01	0.21	0.31	0.02	0.01	0.00	0.00	
14	0.00	5.78	0.00	0.25	0.04	0.01	0.67	0.29	0.02	0.01	0.00	0.00	
15	0.00	0.65	0.00	0.33	0.04	0.01	0.35	0.19	0.02	0.01	0.00	0.00	
16	0.00	0.27	0.00	0.15	0.03	0.03	0.23	0.15	0.01	0.01	0.00	0.00	
17	0.00	0.13	0.00	0.29	0.03	0.29	0.15	0.11	0.01	0.00	0.00	0.00	
18	0.00	0.09	0.00	0.13	0.03	0.87	0.11	0.07	0.01	0.00	0.00	0.00	
19	0.00	0.33	0.01	0.04	0.03	1.05	0.07	0.05	0.01	0.00	0.00	0.00	
20	0.00	0.31	0.01	0.03	0.03	3.02	0.05	0.04	0.01	0.00	0.00	0.00	
21	0.00	0.31	0.01	0.03	0.03	2.75	0.05	0.04	0.01	0.00	0.00	0.00	
22	0.00	0.19	0.01	0.05	0.03	1.37	0.04	0.04	0.01	0.00	0.00	0.00	
23	0.01	0.07	0.01	0.52	0.02	0.80	0.11	0.04	0.01	0.00	0.00	0.00	
24	0.00	0.11	0.01	0.47	0.02	0.50	0.29	0.04	0.01	0.00	0.00	0.00	
25	0.00	0.09	0.01	0.21	0.02	0.33	0.25	0.04	0.01	0.00	0.00	0.00	
26	0.00	0.04	0.00	0.23	0.02	0.23	0.21	0.03	0.01	0.00	0.00	0.00	
27	0.00	0.03	0.00	0.23	0.02	0.17	0.17	0.03	0.01	0.00	0.00	0.00	
28	0.00	0.03	0.00	0.15	0.02	0.11	7.35	0.03	0.01	0.00	0.00	0.00	
29	0.00	0.03	0.00	0.09	0.01	0.09	2.25	0.03	0.01	0.00		0.00	
30	0.00	0.11	0.00	0.05	0.01	0.07	1.17	0.03	0.01	0.00		0.00	
31		0.19		0.07	0.01		0.77		0.01	0.00		0.00	
TOTAL	0.01	10.47	0.41	7.49	0.99	11.80	24.70	3.95	0.54	0.16	0.00	0.00	60.52 CMSDAY
MEAN	0.00	0.34	0.01	0.24	0.03	0.39	0.80	0.13	0.02	0.01	0.00	0.00	0.17 CMS
MAX	0.01	5.78	0.09	1.95	0.07	3.02	7.35	0.60	0.03	0.01	0.00	0.00	7.35 CMS
MIN	0.00	0.00	0.00	0.00	0.01	0.00	0.04	0.03	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.001	0.905	0.035	0.647	0.086	1.020	2.134	0.341	0.047	0.014	0.000	0.000	5.229 MCM

MOMENTARY PEAK 7.35 CMS, AT 2.20 M (A.D), AT 6.00 HOURS, ON OCT 28, 1978
RUNOFF YIELD 0.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 40.16 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PHET RIVER BASIN

PHET 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.S.

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.

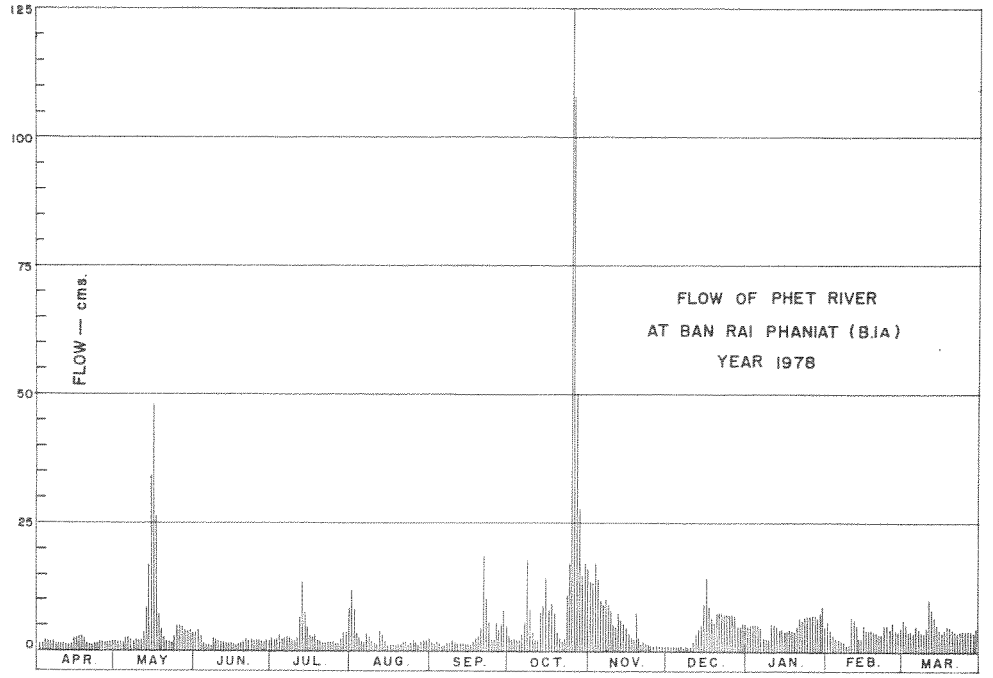
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 112 DISCHARGE MEASUREMENTS MADE DURING 1965-1970. FLOW REGULATED BY KAENG KRACHAN RESERVOIR AND PHET DIVERSION DAM FOR IRRIGATION OF ABOUT 27,800 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.90	0.91	1.05	0.95	1.54	0.90	0.96	1.63	0.81	1.10	1.20	1.20	
2	0.89	0.90	1.10	0.95	1.40	0.88	0.94	1.60	0.81	1.13	1.07	1.13	
3	0.92	0.90	1.03	0.95	1.04	0.93	0.93	1.80	0.81	1.11	0.98	1.04	
4	0.94	0.90	0.88	1.03	0.93	0.87	0.95	1.62	0.81	1.11	0.95	1.04	
5	0.92	0.99	0.85	0.94	0.91	0.84	0.97	1.45	0.81	1.11	0.92	1.04	
6	0.91	0.96	0.85	0.99	0.93	0.89	1.07	1.39	0.81	1.10	0.91	1.11	
7	0.91	0.92	0.88	1.00	1.05	0.91	1.29	1.47	0.81	0.96	0.88	1.04	
8	0.89	0.90	0.97	0.97	0.97	0.92	1.81	1.42	0.81	0.96	0.81	1.02	
9	0.89	0.96	0.93	0.94	0.92	0.92	1.23	1.32	0.81	0.95	0.81	1.02	
10	0.88	0.94	0.92	0.94	0.91	0.89	1.00	1.15	0.81	1.15	1.24	1.22	
11	0.86	0.96	0.91	1.02	0.92	0.89	0.94	1.08	0.96	1.12	1.22	1.44	
12	0.87	1.08	0.91	1.33	1.09	0.89	0.94	1.28	1.04	1.08	1.19	1.30	
13	0.87	1.60	0.91	1.63	1.00	0.87	1.33	1.20	1.13	1.07	0.93	1.24	
14	0.89	1.98	0.92	1.28	0.91	0.83	1.41	1.18	1.21	1.07	1.00	1.09	
15	0.96	2.70	0.91	1.06	0.87	0.83	1.66	1.12	1.49	1.07	1.14	1.04	
16	0.94	2.84	0.88	1.01	0.87	0.88	1.32	1.03	1.66	1.07	1.07	1.04	
17	1.02	1.57	0.87	1.00	0.88	0.96	1.43	1.02	1.32	1.08	1.08	1.05	
18	1.02	1.22	0.89	1.04	0.88	0.97	1.29	0.88	1.20	1.07	1.06	1.10	
19	0.94	1.04	0.91	0.94	0.88	1.00	1.13	1.31	1.21	1.07	1.06	1.08	
20	0.88	0.94	0.94	0.92	0.88	1.23	1.00	0.95	1.30	1.16	1.03	1.04	
21	0.87	0.91	0.93	0.91	0.91	1.85	0.94	0.87	1.30	1.25	1.03	1.04	
22	0.87	0.90	0.93	0.90	0.90	1.37	0.94	0.84	1.27	1.20	1.04	1.03	
23	0.87	0.90	0.93	0.91	0.85	1.08	1.41	0.84	1.28	1.25	1.14	1.03	
24	0.87	1.01	0.94	0.91	0.91	0.94	1.61	0.82	1.27	1.25	1.13	1.03	
25	0.90	1.14	0.94	0.94	0.93	0.98	4.30	0.81	1.26	1.26	1.07	1.05	
26	0.91	1.13	0.94	0.92	0.88	1.20	4.86	0.81	1.26	1.27	1.04	1.04	
27	0.91	1.11	0.91	0.91	0.89	1.10	3.01	0.81	1.26	1.26	1.05	1.04	
28	0.91	1.08	0.91	1.02	0.93	1.21	1.86	0.81	1.12	1.22	1.06	1.04	
29	0.91	1.03	0.94	1.08	0.93	1.35	1.67	0.81	1.14	1.34		1.03	
30	0.91	1.10	0.94	1.06	0.93	1.12	1.80	0.81	1.15	1.38		1.39	
31		1.06		1.39	0.93		1.75		1.12	1.12		1.20	
MEAN	0.91	1.18	0.93	1.03	0.96	1.02	1.54	1.14	1.10	1.14	1.04	1.10	
MAX	1.02	2.84	1.10	1.63	1.54	1.85	4.86	1.80	1.66	1.38	1.24	1.44	4.86
MIN	0.86	0.90	0.85	0.90	0.85	0.83	0.93	0.81	0.81	0.95	0.81	1.02	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.17 M (MSL), AT 6.00 HOURS, ON OCT 26, 1978
ZERO GAGE AT BOTTOM ELEVATION -0.06 M (MSL), RIVER BED -0.52 M (MSL)
LEFT BANK ELEVATION 5.22 M (MSL)
RIGHT BANK ELEVATION 5.06 M (MSL), DRAINAGE AREA 4188 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.70	1.83	3.70	2.35	12.00	1.70	2.48	13.80	0.89	4.40	6.00	6.00	
2	1.61	1.70	4.40	2.35	9.20	1.52	2.22	13.20	0.89	4.88	3.98	4.88	
3	1.96	1.70	3.42	2.35	3.56	2.09	2.09	17.50	0.89	4.56	2.74	3.56	
4	2.22	1.70	1.52	3.42	2.09	1.43	2.35	13.60	0.89	4.56	2.35	3.56	
5	1.96	2.87	1.25	2.22	1.83	1.16	2.61	10.20	0.89	4.56	1.96	3.56	
6	1.83	2.48	1.25	2.87	2.09	1.61	3.98	9.04	0.89	4.40	1.83	4.56	
7	1.83	1.96	1.52	3.00	3.70	1.83	7.44	10.60	0.89	2.48	1.52	3.56	
8	1.61	1.70	2.61	2.61	2.61	1.96	17.73	9.60	0.89	2.48	0.89	3.28	
9	1.61	2.48	2.09	2.22	1.96	1.96	6.48	7.92	0.89	2.35	0.89	3.28	
10	1.52	2.22	1.96	2.22	1.83	1.61	3.00	5.20	0.89	5.20	6.64	6.32	
11	1.34	2.48	1.83	3.28	1.96	1.61	2.22	4.12	2.48	4.72	6.32	10.00	
12	1.43	4.12	1.83	8.08	4.26	1.61	2.22	7.28	3.56	4.12	5.84	7.60	
13	1.43	13.20	1.83	13.80	3.00	1.43	8.08	6.00	4.88	3.98	2.09	6.64	
14	1.61	21.80	1.96	7.28	1.83	1.07	9.40	5.68	6.16	3.98	3.00	4.26	
15	2.48	43.00	1.83	3.84	1.43	1.07	14.40	4.72	11.00	3.98	5.04	3.56	
16	2.22	47.90	1.52	3.14	1.43	1.52	7.92	3.42	14.40	3.98	3.98	3.56	
17	3.28	12.60	1.43	3.00	1.52	2.48	9.80	3.28	7.92	4.12	4.12	3.70	
18	3.28	6.32	1.61	3.56	1.52	2.61	7.44	1.52	6.00	3.98	3.84	4.40	
19	2.22	3.56	1.83	2.22	1.52	3.00	4.88	7.76	6.16	3.98	3.84	4.12	
20	1.52	2.22	2.22	1.96	1.52	6.48	3.00	2.35	7.60	5.36	3.42	3.56	
21	1.43	1.83	2.09	1.83	1.83	18.65	2.22	1.43	7.60	6.80	3.42	3.56	
22	1.43	1.70	2.09	1.70	1.70	8.72	2.22	1.16	7.12	6.00	3.56	3.42	
23	1.43	1.70	2.09	1.83	1.25	4.12	9.40	1.16	7.28	6.80	5.04	3.42	
24	1.43	3.14	2.22	1.83	1.83	2.22	13.40	0.98	7.12	6.80	4.88	3.42	
25	1.70	5.04	2.22	2.22	2.09	2.74	109.40	0.89	6.96	6.96	3.98	3.70	
26	1.83	4.88	2.22	1.96	1.52	6.00	136.30	0.89	6.96	7.12	3.56	3.56	
27	1.83	4.56	1.83	1.83	1.61	4.40	54.00	0.89	6.96	6.96	3.70	3.56	
28	1.83	4.12	1.83	3.28	2.09	6.16	18.88	0.89	4.72	6.32	3.84	3.56	
29	1.83	3.42	2.22	4.12	2.09	8.40	14.60	0.89	5.04	8.24		3.42	
30	1.83	4.40	2.22	3.84	2.09	4.72	17.50	0.89	5.20	8.88		9.04	
31		3.84		9.04	2.09		16.35		4.72	4.72		6.00	
TOTAL	55.23	216.47	62.64	109.25	81.05	105.88	514.01	166.86	148.74	157.67	102.27	140.62	1860.69 CMSDAY
MEAN	1.84	6.98	2.09	3.52	2.61	3.53	16.58	5.56	4.80	5.09	3.65	4.54	5.10 CMS
MAX	3.28	47.90	4.40	13.80	12.00	18.65	136.30	17.50	14.40	8.88	6.64	10.00	136.30 CMS
MIN	1.34	1.70	1.25	1.70	1.25	1.07	2.09	0.89	0.89	2.35	0.89	3.28	0.89 CMS
RUNOFF	4.772	18.703	5.412	9.439	7.003	9.148	44.410	14.417	12.851	13.623	8.836	12.150	160.763 MCM

MOMENTARY PEAK 151.80 CMS, AT 5.17 M (MSL), AT 6.00 HOURS, ON OCT 26, 1978

RUNOFF YIELD 1.22 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 36.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PHET RIVER BASIN

PHET 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.S.

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 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960-1961, 1965 TO DATE.

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1978. 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, 1978 TO MARCH 31, 1979

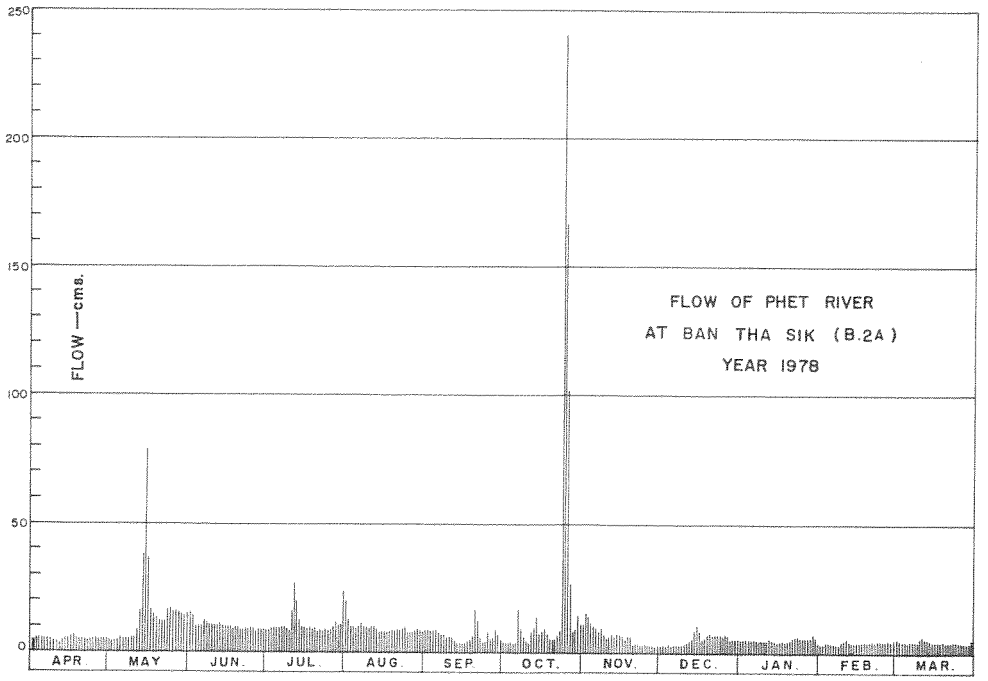
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.25	12.22	12.77	12.50	12.93	12.47	12.16	12.63	12.10	12.24	12.14	12.26	
2	12.25	12.22	12.75	12.50	12.65	12.51	12.16	12.78	12.10	12.25	12.16	12.18	
3	12.27	12.23	12.59	12.55	12.55	12.47	12.17	12.71	12.10	12.25	12.15	12.18	
4	12.30	12.27	12.58	12.51	12.55	12.46	12.18	12.60	12.10	12.24	12.14	12.18	
5	12.26	12.26	12.58	12.54	12.57	12.47	12.16	12.53	12.10	12.24	12.13	12.20	
6	12.25	12.25	12.58	12.55	12.62	12.41	12.20	12.52	12.10	12.24	12.12	12.19	
7	12.22	12.24	12.65	12.55	12.63	12.34	12.81	12.48	12.10	12.24	12.12	12.18	
8	12.20	12.28	12.61	12.53	12.56	12.34	12.46	12.52	12.10	12.22	12.12	12.18	
9	12.20	12.29	12.60	12.50	12.53	12.27	12.25	12.37	12.10	12.23	12.28	12.22	
10	12.20	12.30	12.58	12.52	12.55	12.27	12.21	12.29	12.13	12.25	12.29	12.35	
11	12.20	12.31	12.58	12.87	12.62	12.25	12.13	12.36	12.19	12.22	12.23	12.33	
12	12.21	12.63	12.58	13.12	12.61	12.17	12.43	12.43	12.26	12.21	12.16	12.21	
13	12.32	13.03	12.58	12.83	12.49	12.16	12.56	12.27	12.35	12.21	12.15	12.19	
14	12.31	13.49	12.57	12.58	12.47	12.15	12.73	12.41	12.46	12.20	12.21	12.18	
15	12.30	14.26	12.55	12.52	12.47	12.15	12.38	12.31	12.60	12.21	12.21	12.18	
16	12.39	12.98	12.53	12.53	12.47	12.17	12.44	12.27	12.47	12.21	12.19	12.19	
17	12.33	12.75	12.52	12.52	12.47	12.20	12.52	12.23	12.27	12.21	12.18	12.19	
18	12.24	12.74	12.52	12.54	12.47	12.25	12.39	12.33	12.28	12.21	12.18	12.19	
19	12.22	12.69	12.54	12.50	12.47	12.31	12.26	12.35	12.36	12.23	12.18	12.18	
20	12.22	12.67	12.50	12.50	12.50	12.83	12.24	12.14	12.38	12.31	12.18	12.18	
21	12.22	12.65	12.50	12.50	12.52	12.67	12.23	12.13	12.36	12.30	12.17	12.18	
22	12.22	12.64	12.50	12.50	12.52	12.21	12.39	12.13	12.36	12.30	12.19	12.18	
23	12.22	12.71	12.51	12.50	12.53	12.15	12.52	12.10	12.36	12.31	12.21	12.18	
24	12.24	12.85	12.52	12.52	12.53	12.17	14.14	12.10	12.36	12.30	12.18	12.18	
25	12.24	12.82	12.52	12.50	12.48	12.41	16.24	12.12	12.36	12.30	12.18	12.18	
26	12.23	12.80	12.47	12.50	12.47	12.28	13.70	12.12	12.35	12.30	12.18	12.17	
27	12.23	12.80	12.48	12.54	12.48	12.31	12.74	12.12	12.25	12.30	12.18	12.17	
28	12.22	12.76	12.50	12.63	12.51	12.50	12.50	12.10	12.22	12.34	12.23	12.17	
29	12.22	12.75	12.50	12.58	12.50	12.39	12.59	12.10	12.25	12.39		12.28	
30	12.22	12.74	12.50	12.70	12.50	12.21	12.74	12.10	12.24	12.25		12.26	
31		12.75		13.02	12.48		12.62		12.24	12.14		12.19	
MEAN	12.25	12.66	12.56	12.59	12.54	12.33	12.62	12.32	12.26	12.25	12.18	12.20	
MAX	12.39	14.26	12.77	13.12	12.93	12.83	16.24	12.78	12.60	12.39	12.29	12.35	16.24
MIN	12.20	12.22	12.47	12.50	12.47	12.15	12.13	12.10	12.10	12.14	12.12	12.17	12.10

ANNUAL MAX MOMENTARY GAGE HEIGHT — 16.65 M (MSL), AT 15.00 HOURS, ON OCT 25, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.25	4.80	15.60	9.00	20.55	8.55	3.90	11.75	3.00	5.10	3.60	5.40	
2	5.25	4.80	15.00	9.00	12.25	9.20	3.90	15.90	3.00	5.25	3.90	4.20	
3	5.55	4.95	10.80	10.00	10.00	8.55	4.05	13.80	3.00	5.25	3.75	4.20	
4	6.00	5.55	10.60	9.20	10.00	8.40	4.20	11.00	3.00	5.10	3.60	4.20	
5	5.40	5.40	10.60	9.80	10.40	8.55	3.90	9.60	3.00	5.10	3.45	4.50	
6	5.25	5.25	10.60	10.00	11.50	7.65	4.50	9.40	3.00	5.10	3.30	4.35	
7	4.80	5.10	12.25	10.00	11.75	6.60	16.80	8.70	3.00	5.10	3.30	4.20	
8	4.50	5.70	11.25	9.60	10.00	6.60	8.40	9.40	3.00	4.80	3.30	4.20	
9	4.50	5.85	11.00	9.00	9.60	5.55	5.25	7.05	3.00	4.95	5.70	4.80	
10	4.50	6.00	10.60	9.40	10.00	5.55	4.65	5.85	3.45	5.25	5.85	6.75	
11	4.50	6.15	10.60	18.60	11.50	5.25	3.45	6.90	4.35	4.80	4.95	6.45	
12	4.65	11.75	10.60	27.20	11.25	4.05	7.95	7.95	5.40	4.65	3.90	4.65	
13	6.30	24.05	10.60	17.40	8.85	3.90	10.20	5.55	6.75	4.65	3.75	4.35	
14	6.15	41.60	10.40	10.60	8.55	3.75	14.40	7.65	8.40	4.50	4.65	4.20	
15	6.00	81.60	10.00	9.40	8.55	3.75	7.20	6.15	11.00	4.65	4.65	4.20	
16	7.35	22.30	9.60	9.60	8.55	4.05	8.10	5.55	8.55	4.65	4.35	4.35	
17	6.45	15.00	9.40	9.40	8.55	4.50	9.40	4.95	5.55	4.65	4.20	4.35	
18	5.10	14.70	9.40	9.80	8.55	5.25	7.35	6.45	5.70	4.65	4.20	4.35	
19	4.80	13.25	9.80	9.00	8.55	6.15	5.40	6.75	6.90	4.95	4.20	4.20	
20	4.80	12.75	9.00	9.00	9.00	17.40	5.10	3.60	7.20	6.15	4.20	4.20	
21	4.80	12.25	9.00	9.00	9.40	12.75	4.95	3.45	6.90	6.00	4.05	4.20	
22	4.80	12.00	9.00	9.00	9.40	4.65	7.35	3.45	6.90	6.00	4.35	4.20	
23	4.80	13.80	9.20	9.00	9.60	3.75	9.40	3.00	6.90	6.15	4.65	4.20	
24	5.10	18.00	9.40	9.40	9.60	4.05	74.70	3.00	6.90	6.00	4.20	4.20	
25	5.10	17.10	9.40	9.00	8.70	7.65	240.00	3.30	6.90	6.00	4.20	4.20	
26	4.95	16.50	8.55	9.00	8.55	5.70	51.00	3.30	6.75	6.00	4.20	4.05	
27	4.95	16.50	8.70	9.80	8.70	6.15	14.70	3.30	5.25	6.00	4.20	4.05	
28	4.80	15.30	9.00	11.75	9.20	9.00	9.00	3.00	4.80	6.60	4.95	4.05	
29	4.80	15.00	9.00	10.60	9.00	7.35	10.80	3.00	5.25	7.35		5.70	
30	4.80	14.70	9.00	13.50	9.00	4.65	14.70	3.00	5.10	5.25		5.40	
31		15.00		23.70	8.70		11.50		5.10	3.60		4.35	
TOTAL	156.00	462.70	307.95	348.75	307.80	198.95	586.20	195.75	167.00	164.25	117.60	140.70	3153.65 CMSDAY
MEAN	5.20	14.93	10.26	11.25	9.93	6.63	18.91	6.52	5.39	5.30	4.20	4.54	8.64 CMS
MAX	7.35	81.60	15.60	27.20	20.55	17.40	240.00	15.90	11.00	7.35	5.85	6.75	240.00 CMS
MIN	4.50	4.80	8.55	9.00	8.55	3.75	3.45	3.00	3.00	3.60	3.30	4.05	3.00 CMS
RUNOFF	13.478	39.977	26.607	30.132	26.594	17.189	50.648	16.913	14.429	14.191	10.161	12.156	272.475 MCM

MOMENTARY PEAK 281.00 CMS, AT 16.65 M (MSL), AT 15.00 HOURS, ON OCT 25, 1978

RUNOFF YIELD 2.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 69.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PHET RIVER BASIN

PHET RIVER AT BAN SONG PHI NONG, PHETCHABURI (B.3)

LOCATION — LAT. 12°-52'-04" N., LONG. 99°-40'-40" E., ON LEFT BANK AT BAN SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.

DRAINAGE AREA — 2,244 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +40.998 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 5 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY KAENG KRACHAN RESERVOIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

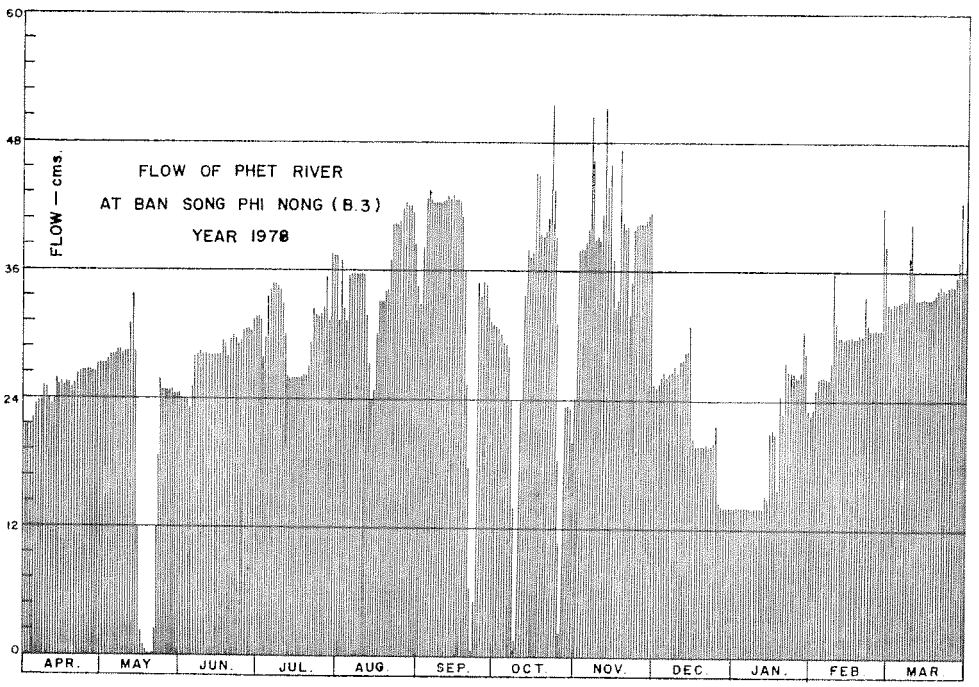
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	42.45	42.61	42.52	42.73	42.72	42.78	42.70	42.70	42.55	42.23	42.52	42.76	
2	42.45	42.61	42.52	42.72	42.87	42.76	42.70	42.90	42.55	42.23	42.57	42.76	
3	42.46	42.62	42.51	42.63	42.75	42.94	42.68	42.90	42.56	42.23	42.58	42.77	
4	42.47	42.63	42.49	42.78	42.72	43.03	42.66	42.90	42.58	42.23	42.58	42.77	
5	42.50	42.63	42.55	42.79	42.84	43.04	42.66	42.92	42.59	42.23	42.58	42.77	
6	42.51	42.64	42.63	42.81	42.84	43.01	42.62	42.99	42.58	42.23	42.57	42.78	
7	42.51	42.64	42.63	42.81	42.84	43.01	42.37	43.21	42.59	42.23	42.58	42.78	
8	42.55	42.64	42.64	42.81	42.84	43.01	41.85	42.92	42.59	42.23	42.72	42.77	
9	42.55	42.63	42.63	42.80	42.84	43.01	42.18	42.93	42.60	42.23	42.86	42.96	
10	42.52	42.64	42.63	42.80	42.84	43.01	42.50	42.92	42.59	42.23	42.68	42.96	
11	42.50	42.64	42.63	42.71	42.84	43.02	42.75	43.00	42.62	42.23	42.68	42.85	
12	42.52	42.77	42.63	42.57	42.71	43.03	42.86	43.23	42.62	42.23	42.68	42.78	
13	42.57	42.79	42.63	42.57	42.52	43.02	42.90	43.04	42.64	42.27	42.67	42.78	
14	42.55	42.48	42.63	42.57	42.52	43.03	42.88	43.10	42.64	42.25	42.68	42.78	
15	42.56	41.97	42.65	42.57	42.61	43.02	42.90	42.95	42.71	42.44	42.68	42.78	
16	42.55	41.86	42.65	42.57	42.77	43.02	43.08	42.75	42.42	42.44	42.68	42.78	
17	42.56	41.83	42.67	42.57	42.77	43.02	43.08	42.79	42.40	42.43	42.68	42.78	
18	42.56	41.81	42.67	42.58	42.77	42.91	42.93	43.14	42.40	42.28	42.68	42.78	
19	42.54	41.80	42.62	42.58	42.80	42.68	42.93	42.95	42.40	42.53	42.69	42.79	
20	42.56	41.77	42.67	42.58	42.80	42.42	42.95	42.95	42.40	42.48	42.69	42.80	
21	42.58	41.78	42.68	42.64	42.88	41.89	42.98	42.95	42.40	42.62	42.79	42.81	
22	42.59	42.23	42.67	42.75	42.96	41.78	43.24	42.74	42.40	42.59	42.70	42.80	
23	42.59	42.56	42.66	42.74	42.96	42.22	43.10	42.95	42.40	42.59	42.70	42.80	
24	42.59	42.54	42.67	42.73	42.96	42.82	42.89	42.96	42.40	42.59	42.70	42.81	
25	42.59	42.54	42.70	42.74	42.98	42.78	42.26	42.96	42.45	42.58	42.70	42.81	
26	42.59	42.54	42.70	42.76	43.01	42.82	41.86	42.96	42.24	42.58	42.70	42.81	
27	42.59	42.54	42.70	42.83	43.01	42.82	42.13	42.96	42.23	42.59	42.70	42.83	
28	42.59	42.54	42.69	42.72	43.00	42.77	42.50	42.97	42.23	42.70	43.00	42.84	
29	42.61	42.53	42.73	42.89	43.00	42.71	42.50	42.98	42.23	42.64		43.01	
30	42.61	42.53	42.73	42.89	42.98	42.71	42.49	42.99	42.23	42.48		42.83	
31		42.53		42.88	42.89		42.40		42.23	42.48		42.82	
MEAN	42.55	42.42	42.64	42.71	42.83	42.80	42.66	42.95	42.47	42.40	42.68	42.81	
MAX	42.61	42.79	42.73	42.89	43.01	43.04	43.24	43.23	42.71	42.70	43.00	43.01	43.24
MIN	42.45	41.77	42.49	42.57	42.52	41.78	41.85	42.70	42.23	42.23	42.52	42.76	41.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 43.29 M (MSL), AT 6.00 HOURS, ON NOV 12, 1978

ZERO GAGE AT BOTTOM ELEVATION 41.00 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 2244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	21.60	27.36	24.12	31.68	31.32	33.48	30.60	30.60	25.20	14.02	24.12	32.76	
2	21.60	27.36	24.12	31.32	36.86	32.76	30.60	38.00	25.20	14.02	25.92	32.76	
3	21.96	27.72	23.76	28.08	32.40	39.56	29.88	38.00	25.56	14.02	26.28	33.12	
4	22.32	28.08	23.04	33.48	31.32	43.10	29.16	38.00	26.28	14.02	26.28	33.12	
5	23.40	28.08	25.20	33.84	35.72	43.50	29.16	38.78	26.64	14.02	26.28	33.12	
6	23.76	28.44	28.08	34.58	35.72	42.30	27.72	41.51	26.28	14.02	25.92	33.48	
7	23.76	28.44	28.08	34.58	35.72	42.30	18.78	50.42	26.64	14.02	26.28	33.48	
8	25.20	28.44	28.44	34.58	35.72	42.30	1.60	38.78	26.64	14.02	31.32	33.12	
9	25.20	28.08	28.08	34.20	35.72	42.30	12.32	39.17	27.00	14.02	36.48	40.34	
10	24.12	28.44	28.08	34.20	35.72	42.30	23.40	38.78	26.64	14.02	29.88	40.34	
11	23.40	28.44	28.08	30.96	35.72	42.70	32.40	41.90	27.72	14.02	29.88	36.10	
12	24.12	33.12	28.08	25.92	30.96	43.10	36.48	51.26	27.72	14.02	29.88	33.48	
13	25.92	33.84	28.08	25.92	24.12	42.70	38.00	43.50	28.44	15.38	29.52	33.48	
14	25.20	22.68	28.08	25.92	24.12	43.10	37.24	45.90	28.44	14.70	29.88	33.48	
15	25.56	5.44	28.80	25.92	27.36	42.70	38.00	39.95	30.96	21.24	29.88	33.48	
16	25.20	1.92	28.80	25.92	33.12	42.70	45.10	32.40	20.52	21.24	29.88	33.48	
17	25.56	0.96	29.52	25.92	33.12	42.70	45.10	33.84	19.80	20.88	29.88	33.48	
18	25.56	0.32	29.52	26.28	33.12	38.39	39.17	47.54	19.80	15.72	29.88	33.48	
19	24.84	0.00	27.72	26.28	34.20	29.88	39.17	39.95	19.80	24.48	30.24	33.84	
20	25.56	0.00	29.52	26.28	34.20	20.52	39.95	39.95	19.80	22.68	30.24	34.20	
21	26.28	0.00	29.88	28.44	37.24	2.88	41.12	39.95	19.80	27.72	33.84	34.58	
22	26.64	14.02	29.52	32.40	40.34	0.00	51.68	32.04	19.80	26.64	30.60	34.20	
23	26.64	25.56	29.16	32.04	40.34	13.68	45.90	39.95	19.80	26.64	30.60	34.20	
24	26.64	24.84	29.52	31.68	40.34	34.96	37.62	40.34	19.80	26.64	30.60	34.58	
25	26.64	24.84	30.60	32.04	41.12	33.48	15.04	40.34	21.60	26.28	30.60	34.58	
26	26.64	24.84	30.60	32.76	42.30	34.96	1.92	40.34	14.36	26.28	30.60	34.58	
27	26.64	24.84	30.60	35.34	42.30	34.96	10.62	40.34	14.02	26.64	30.60	35.34	
28	26.64	24.84	30.24	31.32	41.90	33.12	23.40	40.73	14.02	30.60	41.90	35.72	
29	27.36	24.48	31.68	37.62	41.90	30.96	23.40	41.12	14.02	28.44		42.30	
30	27.36	24.48	31.68	37.62	41.12	30.96	23.04	41.51	14.02	22.68		35.34	
31		24.48		37.24	37.62		19.80		14.02	22.68		34.96	
TOTAL	751.32	644.38	850.68	964.36	1102.78	1042.35	917.37	1204.89	690.34	615.80	837.26	1074.52	10696.03 CMSDAY
MEAN	25.04	20.79	28.36	31.11	35.57	34.74	29.59	40.16	22.27	19.86	29.90	34.66	29.30 CMS
MAX	27.36	33.84	31.68	37.62	42.30	43.50	51.68	51.26	30.96	30.60	41.90	42.30	51.68 CMS
MIN	21.60	0.00	23.04	25.92	24.12	0.00	1.60	30.60	14.02	14.02	24.12	32.76	0.00 CMS
RUNOFF	64.914	55.674	73.499	83.321	95.280	90.059	79.261	104.102	59.645	53.205	72.339	92.838	924.137 MCM

MOMENTARY PEAK 53.78 CMS, AT 43.29 M (MSL), AT 6.00 HOURS, ON NOV 12, 1978

RUNOFF YIELD 13.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PHET RIVER BASIN

PHET 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 — +48.48 M. (M.S.L.)

BENCH MARK — B.M.-H.S. 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.

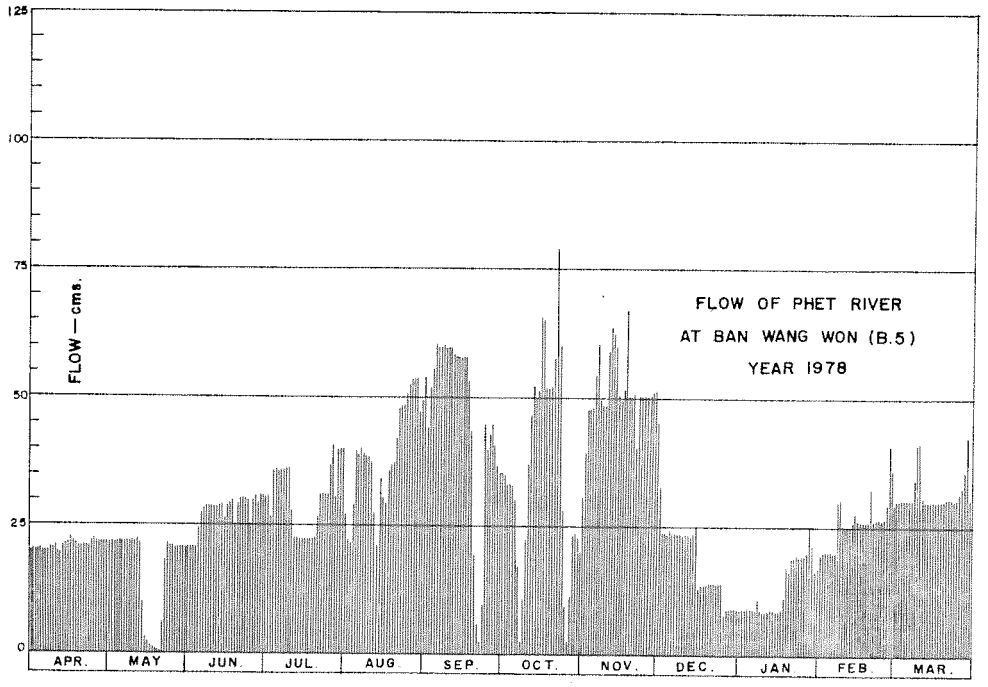
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1978. FLOW REGULATED BY KAENG KRACHAN RESERVOIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	49.02	49.07	49.04	49.34	49.26	49.85	49.45	49.48	49.38	48.42	49.01	49.31	
2	49.03	49.08	49.03	49.35	49.08	49.64	49.43	49.55	49.13	48.43	49.02	49.32	
3	49.03	49.07	49.04	49.22	49.08	49.82	49.40	49.73	49.14	48.43	49.02	49.32	
4	49.02	49.08	49.04	49.47	49.36	49.88	49.40	49.73	49.14	48.44	49.03	49.32	
5	49.02	49.08	49.18	49.47	49.56	49.95	49.40	49.74	49.14	48.43	49.03	49.33	
6	49.02	49.08	49.27	49.46	49.54	49.94	49.29	49.95	49.13	48.44	49.02	49.33	
7	49.03	49.07	49.28	49.47	49.57	49.95	48.63	50.05	49.13	48.44	49.03	49.33	
8	49.03	49.07	49.29	49.47	49.54	49.95	47.82	49.74	49.13	48.57	49.32	49.38	
9	49.04	49.07	49.28	49.47	49.53	49.94	48.67	49.74	49.13	48.43	49.31	49.58	
10	49.05	49.09	49.28	49.47	49.53	49.94	49.09	49.75	49.13	48.42	49.18	49.59	
11	48.99	49.08	49.29	49.26	49.50	49.94	49.54	49.95	49.13	48.42	49.19	49.40	
12	49.05	49.09	49.28	49.10	49.23	49.92	49.70	50.02	49.12	48.43	49.19	49.31	
13	49.06	49.08	49.30	49.10	49.03	49.91	49.81	49.99	49.13	48.43	49.19	49.32	
14	49.07	48.27	49.30	49.09	49.28	49.91	49.76	49.92	49.16	48.44	49.21	49.32	
15	49.08	47.80	49.20	49.09	49.42	49.91	49.80	49.76	49.19	48.41	49.26	49.32	
16	49.09	47.73	49.30	49.09	49.24	49.91	50.05	49.76	48.69	48.43	49.21	49.32	
17	49.07	47.66	49.31	49.10	49.42	49.91	49.95	49.85	48.71	48.43	49.21	49.32	
18	49.05	47.64	49.32	49.10	49.48	49.77	49.80	50.07	48.74	48.61	49.21	49.32	
19	49.04	47.63	49.16	49.10	49.50	49.50	49.81	49.77	48.72	48.91	49.21	49.32	
20	49.05	47.63	49.30	49.11	49.50	48.76	49.81	49.78	48.74	48.86	49.21	49.33	
21	49.05	47.62	49.32	49.26	49.63	48.01	49.91	49.78	48.73	48.98	49.38	49.33	
22	49.05	48.51	49.32	49.35	49.74	47.81	50.26	49.56	48.73	48.98	49.21	49.34	
23	49.04	49.05	49.32	49.35	49.74	48.94	49.98	49.77	48.72	48.99	49.22	49.33	
24	49.09	49.06	49.33	49.34	49.74	49.67	49.42	49.77	48.74	48.99	49.22	49.32	
25	49.09	49.05	49.19	49.36	49.79	49.56	48.40	49.77	48.73	48.99	49.22	49.33	
26	49.08	49.05	49.33	49.48	49.83	49.65	47.83	49.77	48.37	48.99	49.24	49.38	
27	49.07	49.03	49.34	49.58	49.83	49.66	48.58	49.78	48.46	49.05	49.33	49.40	
28	49.06	49.04	49.30	49.34	49.84	49.54	49.13	49.78	48.44	49.19	49.58	49.48	
29	49.08	49.05	49.35	49.57	49.84	49.46	49.13	49.79	48.43	49.05		49.62	
30	49.07	49.04	49.34	49.57	49.71	49.45	49.12	49.79	48.43	48.86		49.32	
31		49.03		49.56	49.76		49.01		47.98	48.89		49.32	
MEAN	49.05	48.71	49.25	49.33	49.52	49.60	49.33	49.80	48.86	48.67	49.19	49.36	
MAX	49.09	49.09	49.35	49.58	49.84	49.95	50.26	50.07	49.38	49.19	49.58	49.62	50.26
MIN	48.99	47.62	49.03	49.09	49.03	47.81	47.82	49.48	47.98	48.41	49.01	49.31	47.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 50.27 M (MSL), AT 1.00 HOURS, ON OCT 22, 1978
ZERO GAGE AT BOTTOM ELEVATION 48.48 M (MSL), RIVER BED 46.76 M (MSL)
LEFT BANK ELEVATION 58.05 M (MSL)
RIGHT BANK ELEVATION 54.22 M (MSL), DRAINAGE AREA 2207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	20.10	21.60	20.70	30.86	27.90	54.55	35.25	36.48	32.42	8.60	19.80	29.69	
2	20.40	21.90	20.40	31.25	21.90	43.68	34.43	39.55	23.49	8.75	20.10	30.08	
3	20.40	21.60	20.70	26.50	21.90	52.90	33.20	48.09	23.82	8.75	20.10	30.08	
4	20.10	21.90	20.70	36.07	31.64	56.20	33.20	48.09	23.82	8.90	20.40	30.08	
5	20.10	21.90	25.14	36.07	40.00	60.15	33.20	48.62	23.82	8.75	20.40	30.47	
6	20.10	21.90	28.25	35.66	39.10	59.58	28.95	60.15	23.49	8.90	20.10	30.47	
7	20.40	21.60	28.60	36.07	40.45	60.15	11.94	65.95	23.49	8.90	20.40	30.47	
8	20.40	21.60	28.95	36.07	39.10	60.15	2.46	48.62	23.49	10.92	30.08	32.42	
9	20.70	21.60	28.60	36.07	38.65	59.58	12.66	48.62	23.49	8.75	29.69	40.90	
10	21.00	22.20	28.60	36.07	38.65	59.58	22.20	49.15	23.49	8.60	25.14	41.35	
11	19.25	21.90	28.95	27.90	37.30	59.58	39.10	60.15	23.49	8.60	25.47	33.20	
12	21.00	22.20	28.60	22.50	26.85	58.44	46.50	64.18	23.16	8.75	25.47	29.69	
13	21.30	21.90	29.30	22.50	20.40	57.87	52.35	62.43	23.49	8.75	25.47	30.08	
14	21.60	6.70	29.30	22.20	28.60	57.87	49.68	58.44	24.48	8.90	26.15	30.08	
15	21.90	2.30	25.80	22.20	34.02	57.87	51.80	49.68	25.47	8.45	27.90	30.08	
16	22.20	1.74	29.30	22.20	27.20	57.87	65.95	49.68	13.02	8.75	26.15	30.08	
17	21.60	1.18	29.69	22.50	34.02	57.87	60.15	54.55	13.38	8.75	26.15	30.08	
18	21.00	1.02	30.08	22.50	36.48	50.21	51.80	67.13	13.92	11.58	26.15	30.08	
19	20.70	0.94	24.48	22.50	37.30	37.30	52.35	50.21	13.56	17.25	26.15	30.08	
20	21.00	0.94	29.30	22.83	37.30	14.28	52.35	50.74	13.92	16.20	26.15	30.47	
21	21.00	0.86	30.08	27.90	43.21	4.10	57.87	50.74	13.74	19.00	32.42	30.47	
22	21.00	9.96	30.08	31.25	48.62	2.38	78.84	40.00	13.74	19.00	26.15	30.86	
23	20.70	21.00	30.08	31.25	48.62	18.00	61.86	50.21	13.56	19.25	26.50	30.47	
24	22.20	21.30	30.47	30.86	48.62	45.09	34.02	50.21	13.92	19.25	26.50	30.08	
25	22.20	21.00	25.47	31.64	51.27	40.00	8.30	50.21	13.74	19.25	26.50	30.47	
26	21.90	21.00	30.47	36.48	53.45	44.15	2.54	50.21	7.91	19.25	27.20	32.42	
27	21.60	20.40	30.86	40.90	53.45	44.62	11.08	50.74	9.20	21.00	30.47	33.20	
28	21.30	20.70	29.30	30.86	54.00	39.10	23.49	50.74	8.90	25.47	40.90	36.48	
29	21.90	21.00	31.25	40.45	54.00	35.66	23.49	51.27	8.75	21.00		42.74	
30	21.60	20.70	30.86	40.45	47.03	35.25	23.16	51.27	8.75	16.20		30.08	
31		20.40		40.00	49.68		19.80		3.82	16.80		30.08	
TOTAL	630.65	496.94	834.36	952.56	1210.71	1384.03	1113.97	1556.11	548.74	411.27	724.06	987.28	10850.66 CMSDAY
MEAN	21.02	16.03	27.81	30.73	39.06	46.13	35.93	51.87	17.70	13.27	25.86	31.85	29.73 CMS
MAX	22.20	22.20	31.25	40.90	54.00	60.15	78.84	67.13	32.42	25.47	40.90	42.74	78.84 CMS
MIN	19.25	0.86	20.40	22.20	20.40	2.38	2.46	36.48	3.82	8.45	19.80	29.69	0.86 CMS
RUNOFF	54.488	42.936	72.089	82.301	104.605	119.580	96.247	134.448	47.411	35.534	62.559	85.301	937.497 MCM

MOMENTARY PEAK 79.48 CMS, AT 50.27 M (MSL), AT 1.00 HOURS, ON OCT 22, 1978

RUNOFF YIELD 13.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 36.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PHET 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 — +22.71 M. (M.S.L.)

BENCH MARK — B.M.-H.S.

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 — 1941-1942, 1961 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1961 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1961 TO DATE.

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

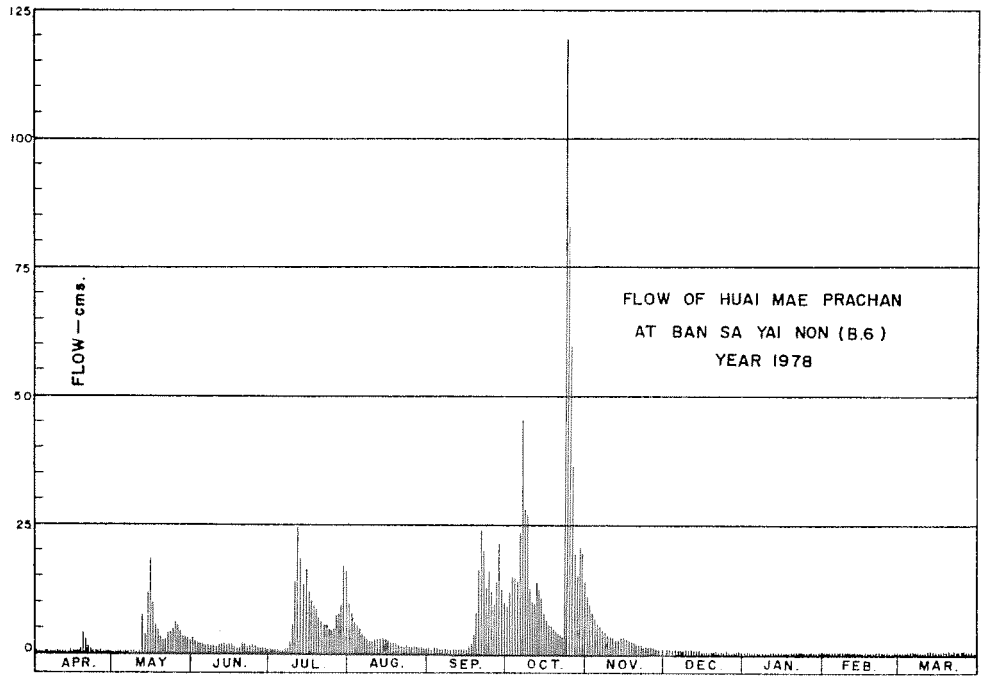
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 52 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	23.24	23.50	23.89	23.67	24.38	23.70	24.32	24.41	23.76	23.53	23.44	23.32	
2	23.24	23.45	23.86	23.67	24.24	23.70	24.44	24.32	23.72	23.52	23.44	23.31	
3	23.24	23.44	23.85	23.69	24.15	23.67	24.56	24.26	23.70	23.52	23.43	23.31	
4	23.24	23.44	23.84	23.70	24.13	23.66	24.55	24.19	23.69	23.51	23.43	23.31	
5	23.23	23.43	23.81	23.66	24.07	23.64	24.51	24.15	23.69	23.51	23.43	23.30	
6	23.23	23.41	23.80	23.68	24.01	23.61	24.88	24.11	23.69	23.51	23.43	23.30	
7	23.23	23.41	23.82	23.74	23.98	23.64	25.42	24.08	23.69	23.50	23.42	23.30	
8	23.23	23.41	23.80	23.78	23.95	23.62	24.99	24.04	23.67	23.50	23.42	23.29	
9	23.23	23.39	23.78	23.93	23.92	23.65	24.70	24.00	23.65	23.50	23.42	23.29	
10	23.23	23.39	23.78	24.29	23.92	23.66	24.46	23.98	23.62	23.50	23.41	23.28	
11	23.22	23.69	23.84	24.83	23.94	23.64	24.35	23.96	23.61	23.48	23.41	23.28	
12	23.43	24.24	23.85	24.89	23.96	23.66	24.35	23.93	23.59	23.48	23.41	23.28	
13	23.57	23.95	23.84	24.67	23.96	23.65	24.52	23.92	23.59	23.48	23.40	23.28	
14	23.52	24.40	23.78	24.48	23.95	23.64	24.42	23.97	23.59	23.47	23.40	23.27	
15	23.52	24.69	23.86	24.63	23.93	23.69	24.30	23.99	23.59	23.46	23.40	23.27	
16	23.49	24.41	23.81	24.47	23.91	23.81	24.21	23.93	23.59	23.46	23.39	23.26	
17	23.51	24.18	23.79	24.39	23.89	23.84	24.16	23.91	23.58	23.45	23.39	23.26	
18	23.63	24.08	23.76	24.35	23.87	24.05	24.11	23.88	23.58	23.45	23.39	23.25	
19	24.05	24.03	23.74	24.30	23.85	24.32	24.05	23.85	23.58	23.45	23.39	23.25	
20	23.89	23.93	23.83	24.23	23.84	24.68	24.03	23.83	23.57	23.45	23.38	23.24	
21	23.77	23.92	23.81	24.18	23.82	24.88	24.01	23.81	23.57	23.45	23.38	23.24	
22	23.69	24.04	23.77	24.13	23.81	24.74	23.99	23.79	23.57	23.45	23.36	23.24	
23	23.61	24.05	23.81	24.09	23.80	24.49	23.98	23.77	23.56	23.44	23.35	23.23	
24	23.57	24.08	23.85	24.05	23.79	24.59	26.66	23.75	23.56	23.44	23.34	23.23	
25	23.53	24.17	23.80	24.03	23.78	24.45	26.05	23.76	23.56	23.44	23.34	23.22	
26	23.48	24.10	23.76	24.09	23.77	24.34	25.27	23.76	23.56	23.44	23.33	23.22	
27	23.46	24.03	23.74	24.26	23.76	24.63	24.76	23.75	23.55	23.45	23.33	23.22	
28	23.43	23.99	23.72	24.26	23.75	24.77	24.56	23.74	23.55	23.45	23.32	23.22	
29	23.49	23.95	23.70	24.35	23.74	24.46	24.79	23.72	23.54	23.45		23.21	
30	23.56	23.94	23.68	24.63	23.73	24.33	24.74	23.69	23.54	23.44		23.21	
31		23.91		24.62	23.73		24.53		23.54	23.44		23.21	
MEAN	23.46	23.87	23.80	24.19	23.91	24.04	24.60	23.94	23.61	23.47	23.39	23.26	
MAX	24.05	24.69	23.89	24.89	24.38	24.88	26.66	24.41	23.76	23.53	23.44	23.32	26.66
MIN	23.22	23.39	23.68	23.66	23.73	23.61	23.98	23.69	23.54	23.44	23.32	23.21	23.21

ANNUAL MAX MOMENTARY GAGE HEIGHT 28.19 M (MSL), AT 17.00 HOURS, ON OCT 24, 1978
ZERO GAGE AT BOTTOM ELEVATION 22.71 M (MSL), RIVER BED 22.41 M (MSL)
LEFT BANK ELEVATION 30.50 M (MSL)
RIGHT BANK ELEVATION 29.54 M (MSL), DRAINAGE AREA 1015 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.20	2.31	0.75	10.56	8.85	9.24	11.24	1.24	0.29	0.09	0.01	
2	0.00	0.11	2.04	0.75	7.60	0.85	11.96	9.24	0.98	0.26	0.09	0.01	
3	0.00	0.09	1.95	0.82	5.90	0.75	14.96	8.00	0.85	0.26	0.07	0.01	
4	0.00	0.09	1.86	0.85	5.54	0.71	14.70	6.62	0.82	0.23	0.07	0.01	
5	0.00	0.07	1.59	0.71	4.58	0.64	13.66	5.90	0.82	0.23	0.07	0.01	
6	0.00	0.04	1.50	0.78	3.74	0.53	24.16	5.18	0.82	0.23	0.07	0.01	
7	0.00	0.04	1.68	1.11	3.36	0.64	45.56	4.72	0.82	0.20	0.06	0.01	
8	0.00	0.04	1.50	1.37	3.00	0.57	28.04	4.16	0.75	0.20	0.06	0.01	
9	0.00	0.02	1.37	2.76	2.64	0.67	18.60	3.60	0.67	0.20	0.06	0.01	
10	0.00	0.02	1.37	8.60	2.64	0.71	12.44	3.36	0.57	0.20	0.04	0.01	
11	0.00	0.82	1.86	22.56	2.88	0.64	9.90	3.12	0.53	0.16	0.04	0.01	
12	0.07	7.68	1.95	24.48	3.12	0.71	9.90	2.76	0.47	0.16	0.04	0.01	
13	0.41	3.00	1.86	17.82	3.12	0.67	13.92	2.64	0.47	0.16	0.02	0.01	
14	0.26	11.00	1.37	12.92	3.00	0.64	11.48	3.24	0.47	0.15	0.02	0.01	
15	0.26	18.34	2.04	16.78	2.76	0.82	8.80	3.48	0.47	0.13	0.02	0.01	
16	0.18	11.24	1.59	12.68	2.52	1.59	7.00	2.76	0.47	0.13	0.02	0.01	
17	0.23	6.44	1.43	10.78	2.31	1.86	6.08	2.52	0.44	0.11	0.02	0.01	
18	0.60	4.72	1.24	9.90	2.13	4.30	5.18	2.22	0.44	0.11	0.02	0.00	
19	4.30	4.02	1.11	8.80	1.95	9.24	4.30	1.95	0.44	0.11	0.02	0.00	
20	2.31	2.76	1.77	7.40	1.86	18.08	4.02	1.77	0.41	0.11	0.02	0.00	
21	1.30	2.64	1.59	6.44	1.68	24.16	3.74	1.59	0.41	0.11	0.02	0.00	
22	0.82	4.16	1.30	5.54	1.59	19.80	3.48	1.43	0.41	0.11	0.02	0.00	
23	0.53	4.30	1.59	4.86	1.50	13.16	3.36	1.30	0.38	0.09	0.01	0.00	
24	0.41	4.72	1.95	4.30	1.43	15.74	119.32	1.17	0.38	0.09	0.01	0.00	
25	0.29	6.26	1.50	4.02	1.37	12.20	79.80	1.24	0.38	0.09	0.01	0.00	
26	0.16	5.00	1.24	4.86	1.30	9.68	38.74	1.24	0.38	0.09	0.01	0.00	
27	0.13	4.02	1.11	8.00	1.24	16.78	20.40	1.17	0.35	0.11	0.01	0.00	
28	0.07	3.48	0.98	8.00	1.17	20.70	14.96	1.11	0.35	0.11	0.01	0.00	
29	0.18	3.00	0.85	9.90	1.11	12.44	21.30	0.98	0.32	0.11		0.00	
30	0.38	2.88	0.78	16.78	1.04	9.46	19.80	0.82	0.32	0.09		0.00	
31		2.52		16.52	1.04		14.18		0.32	0.09		0.00	
TOTAL	12.89	113.64	46.28	251.84	89.68	199.59	612.96	100.53	16.95	4.72	1.02	0.17	1450.29 CMSDAY
MEAN	0.43	3.67	1.54	8.12	2.89	6.65	19.77	3.35	0.55	0.15	0.04	0.01	3.97 CMS
MAX	4.30	18.34	2.31	24.48	10.56	24.16	119.32	11.24	1.24	0.29	0.09	0.01	119.32 CMS
MIN	0.00	0.02	0.78	0.71	1.04	0.53	3.36	0.82	0.32	0.09	0.01	0.00	0.00 CMS
RUNOFF	1.114	9.818	3.999	21.759	7.748	17.245	52.961	8.686	1.464	0.408	0.088	0.015	125.305 MCM

MOMENTARY PEAK 276.72 CMS, AT 28.19 M (MSL), AT 17.00 HOURS, ON OCT 24, 1978

RUNOFF YIELD 3.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 272.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PHET 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.S.

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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 107 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

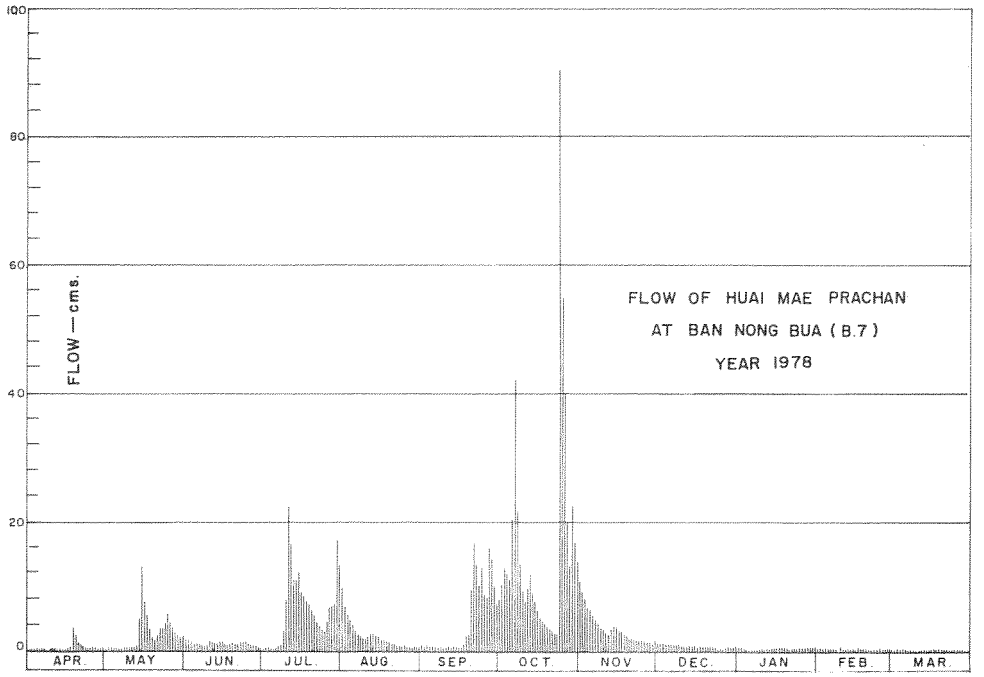
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.69	1.17	0.82	2.16	0.95	2.16	2.41	1.17	0.86	0.88	0.64	
2	0.56	0.68	1.16	0.80	1.91	0.94	2.44	2.26	1.11	0.85	0.87	0.68	
3	0.55	0.68	1.13	0.79	1.78	0.93	2.64	2.10	1.09	0.84	0.87	0.69	
4	0.55	0.67	1.10	0.80	1.74	0.92	2.54	1.97	1.09	0.84	0.86	0.63	
5	0.56	0.66	1.06	0.84	1.58	0.90	2.46	1.86	1.08	0.84	0.85	0.63	
6	0.56	0.65	1.04	0.96	1.46	0.89	3.64	1.78	1.07	0.84	0.85	0.63	
7	0.57	0.64	1.03	1.05	1.38	0.87	4.30	1.70	1.04	0.83	0.85	0.67	
8	0.57	0.64	0.99	1.13	1.31	0.88	3.20	1.64	1.02	0.83	0.85	0.72	
9	0.58	0.79	0.98	1.53	1.28	0.91	2.63	1.59	1.97	0.84	0.85	0.73	
10	0.56	0.97	1.11	2.27	1.29	0.94	2.32	1.52	1.94	0.84	0.82	0.74	
11	0.56	0.82	1.10	3.36	1.36	0.95	2.12	1.47	0.93	0.84	0.73	0.71	
12	0.56	0.92	1.09	2.86	1.39	0.91	2.35	1.42	0.92	0.84	0.71	0.72	
13	0.58	1.03	1.00	2.47	1.40	0.88	2.53	1.51	0.95	0.83	0.69	0.70	
14	0.58	1.87	1.17	2.41	1.38	0.87	2.24	1.62	0.95	0.82	0.78	0.65	
15	0.60	2.61	1.13	2.57	1.34	0.87	2.04	1.55	0.95	0.82	0.67	0.63	
16	0.60	2.19	1.07	2.24	1.28	0.88	1.88	1.47	0.95	0.84	0.66	0.64	
17	0.63	1.73	1.02	2.15	1.24	1.16	1.77	1.41	0.95	0.85	0.66	0.68	
18	1.58	1.45	0.98	2.11	1.20	1.44	1.67	1.33	0.96	0.87	0.65	0.67	
19	1.37	1.29	1.12	2.03	1.16	1.43	1.57	1.34	0.94	0.86	0.65	0.62	
20	1.07	1.21	1.09	1.90	1.14	2.69	1.52	1.30	0.92	0.84	0.66	0.62	
21	0.90	1.40	1.02	1.81	1.11	2.97	1.52	1.28	0.92	0.79	0.66	0.63	
22	0.81	1.58	1.10	1.67	1.08	2.68	1.43	1.25	0.91	0.81	0.65	0.63	
23	0.75	1.52	1.21	1.57	1.05	2.37	1.36	1.23	0.91	0.81	0.65	0.63	
24	0.73	1.72	1.11	1.53	1.04	2.65	5.57	1.21	0.92	0.84	0.65	0.64	
25	0.71	1.87	1.03	1.48	1.03	2.23	4.77	1.18	0.89	0.86	0.64	0.63	
26	0.70	1.61	0.99	1.90	1.01	2.20	3.60	1.16	0.89	0.87	0.66	0.63	
27	0.78	1.47	0.94	2.05	1.00	2.90	2.81	1.15	0.89	0.89	0.68	0.64	
28	0.86	1.40	0.90	2.01	0.99	2.84	2.65	1.14	0.88	0.88	0.64	0.63	
29	0.75	1.31	0.87	2.12	0.98	2.28	3.38	1.12	0.86	0.88		0.63	
30	0.70	1.25	0.84	2.98	0.97	2.06	3.01	1.20	0.87	0.89		0.63	
31		1.23		2.57	0.96		2.62		0.86	0.89		0.63	
MEAN	0.72	1.24	1.05	1.83	1.29	1.55	2.60	1.51	1.03	0.85	0.74	0.66	
MAX	1.58	2.61	1.21	3.36	2.16	2.97	5.57	2.41	1.97	0.89	0.88	0.74	5.57
MIN	0.55	0.64	0.84	0.79	0.96	0.87	1.36	1.12	0.86	0.79	0.64	0.62	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.09 M (A.D), AT 11.00 HOURS, ON OCT 24, 1978

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 846 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.13	1.38	0.33	8.14	0.57	8.14	10.60	1.38	0.39	0.42	0.06	
2	0.00	0.12	1.34	0.30	6.08	0.55	10.90	9.10	1.14	0.37	0.40	0.12	
3	0.00	0.12	1.22	0.28	5.06	0.52	12.90	7.60	1.06	0.36	0.40	0.13	
4	0.00	0.11	1.10	0.30	4.78	0.50	11.90	6.56	1.06	0.36	0.39	0.05	
5	0.00	0.09	0.94	0.36	3.68	0.45	11.10	5.68	1.02	0.36	0.37	0.05	
6	0.00	0.08	0.86	0.60	2.96	0.43	26.96	5.06	0.98	0.36	0.37	0.05	
7	0.00	0.06	0.82	0.90	2.48	0.40	42.20	4.50	0.86	0.34	0.37	0.11	
8	0.00	0.06	0.67	1.22	2.06	0.42	19.80	4.08	0.78	0.34	0.37	0.18	
9	0.00	0.28	0.65	3.38	1.90	0.47	12.80	3.74	6.56	0.36	0.37	0.19	
10	0.00	0.62	1.14	9.20	1.95	0.55	9.70	3.32	6.32	0.36	0.33	0.21	
11	0.00	0.33	1.10	22.16	2.36	0.57	7.78	3.02	0.52	0.36	0.19	0.16	
12	0.00	0.50	1.06	15.32	2.54	0.47	10.00	2.72	0.50	0.36	0.16	0.18	
13	0.00	0.82	0.70	11.20	2.60	0.42	11.80	3.26	0.57	0.34	0.13	0.15	
14	0.00	5.76	1.38	10.60	2.48	0.40	8.90	3.94	0.57	0.33	0.27	0.08	
15	0.00	12.60	1.22	12.20	2.24	0.40	7.12	3.50	0.57	0.33	0.11	0.05	
16	0.00	8.41	0.98	8.90	1.90	0.42	5.84	3.02	0.57	0.36	0.09	0.06	
17	0.05	4.71	0.78	8.05	1.70	1.34	4.99	2.66	0.57	0.37	0.09	0.12	
18	3.68	2.90	0.65	7.69	1.50	2.84	4.29	2.18	0.60	0.40	0.08	0.11	
19	2.42	1.95	1.18	7.04	1.34	2.78	3.62	2.24	0.55	0.39	0.08	0.03	
20	0.98	1.55	1.06	6.00	1.26	13.40	3.32	2.00	0.50	0.36	0.09	0.03	
21	0.45	2.60	0.78	5.28	1.14	16.64	3.32	1.90	0.50	0.28	0.09	0.05	
22	0.31	3.68	1.10	4.29	1.02	13.30	2.78	1.75	0.47	0.31	0.08	0.05	
23	0.23	3.32	1.55	3.62	0.90	10.20	2.36	1.65	0.47	0.31	0.08	0.05	
24	0.19	4.64	1.14	3.38	0.86	13.00	90.02	1.55	0.50	0.36	0.08	0.06	
25	0.16	5.76	0.82	3.08	0.82	8.80	57.12	1.42	0.43	0.39	0.06	0.05	
26	0.15	3.87	0.67	6.00	0.74	8.50	26.20	1.34	0.43	0.40	0.09	0.05	
27	0.27	3.02	0.55	7.20	0.70	15.80	14.72	1.30	0.43	0.43	0.12	0.06	
28	0.39	2.60	0.45	6.88	0.67	15.08	13.00	1.26	0.42	0.42	0.06	0.05	
29	0.23	2.06	0.40	7.78	0.65	9.30	22.48	1.18	0.39	0.42		0.05	
30	0.15	1.75	0.36	16.76	0.62	7.28	17.14	1.50	0.40	0.43		0.05	
31		1.65		12.20	0.60		12.70		0.39	0.43		0.05	
TOTAL	9.66	76.15	28.05	202.50	67.73	145.80	495.90	103.63	31.51	11.38	5.74	2.69	1180.74 CMSDAY
MEAN	0.32	2.46	0.93	6.53	2.18	4.86	16.00	3.45	1.02	0.37	0.20	0.09	3.23 CMS
MAX	3.68	12.60	1.55	22.16	8.14	16.64	90.02	10.60	6.56	0.43	0.42	0.21	90.02 CMS
MIN	0.00	0.06	0.36	0.28	0.60	0.40	2.36	1.18	0.39	0.28	0.06	0.03	0.00 CMS
RUNOFF	0.835	6.579	2.424	17.496	5.852	12.597	42.846	8.954	2.722	0.983	0.496	0.232	102.016 MCM

MOMENTARY PEAK 272.40 CMS, AT 8.09 M (A.D), AT 11.00 HOURS, ON OCT 24, 1978

RUNOFF YIELD 3.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 321.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PHET 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.S.

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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

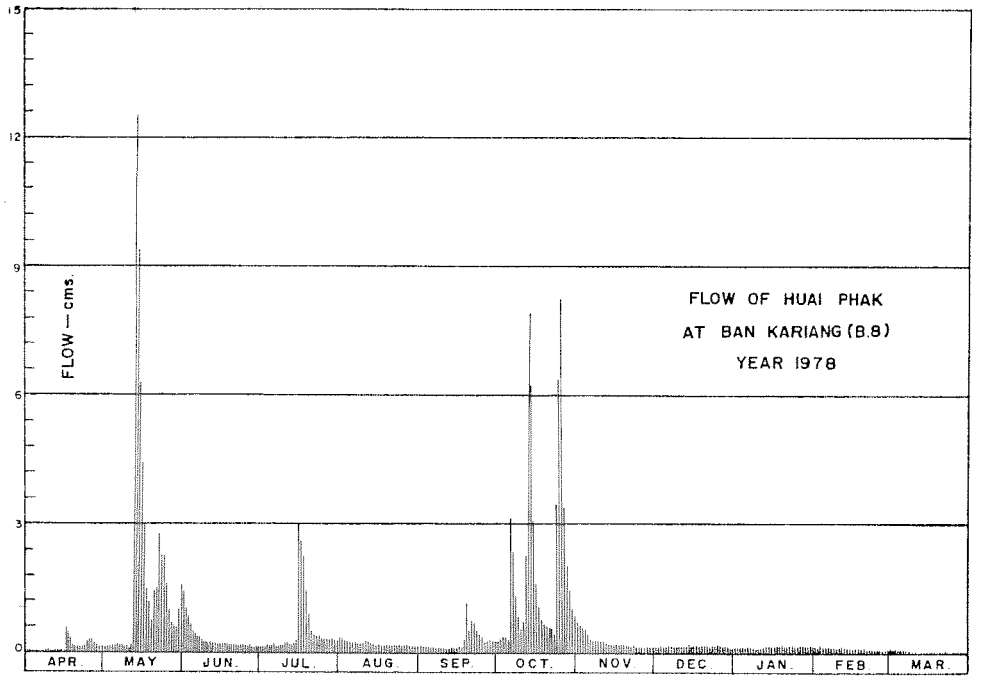
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.63	1.77	2.13	1.76	1.87	1.73	1.85	1.98	1.75	1.72	1.74	1.67	
2	1.63	1.77	2.05	1.76	1.85	1.73	1.87	1.96	1.75	1.72	1.74	1.66	
3	1.63	1.76	1.99	1.75	1.84	1.72	1.90	1.94	1.75	1.73	1.74	1.65	
4	1.63	1.76	1.94	1.76	1.82	1.72	1.89	1.92	1.75	1.72	1.74	1.65	
5	1.63	1.76	1.91	1.76	1.80	1.71	1.87	1.89	1.75	1.72	1.75	1.65	
6	1.63	1.76	1.89	1.76	1.80	1.71	2.45	1.87	1.75	1.73	1.75	1.65	
7	1.63	1.73	1.86	1.76	1.80	1.71	2.26	1.86	1.75	1.72	1.75	1.65	
8	1.63	1.72	1.85	1.74	1.80	1.71	2.08	1.85	1.75	1.72	1.75	1.65	
9	1.62	1.71	1.84	1.76	1.80	1.72	2.00	1.85	1.76	1.71	1.75	1.58	
10	1.62	1.70	1.82	1.76	1.81	1.72	1.94	1.84	1.76	1.71	1.75	1.55	
11	1.60	1.71	1.82	1.83	1.82	1.71	1.99	1.84	1.77	1.72	1.74	1.55	
12	1.59	1.82	1.81	1.80	1.80	1.71	2.75	1.82	1.77	1.73	1.72	1.55	
13	1.58	2.79	1.81	1.78	1.80	1.71	3.06	1.81	1.78	1.76	1.70	1.55	
14	1.59	3.46	1.81	1.79	1.79	1.71	2.56	1.81	1.81	1.76	1.69	1.55	
15	1.83	2.96	1.80	1.85	1.78	1.72	2.27	1.80	1.79	1.76	1.69	1.50	
16	1.95	2.45	1.79	2.44	1.78	1.75	2.13	1.80	1.78	1.76	1.70	1.49	
17	1.91	2.21	1.80	2.33	1.78	1.74	2.04	1.79	1.78	1.76	1.70	1.49	
18	1.76	2.09	1.78	2.30	1.77	1.88	1.99	1.78	1.78	1.76	1.71	1.48	
19	1.74	1.99	1.77	2.10	1.77	2.09	1.96	1.78	1.78	1.75	1.70	1.47	
20	1.74	1.98	1.77	1.99	1.77	1.93	1.95	1.77	1.78	1.75	1.70	1.46	
21	1.74	2.17	1.77	1.93	1.77	2.00	1.96	1.76	1.78	1.74	1.69	1.46	
22	1.73	2.18	1.78	1.89	1.77	1.97	1.93	1.76	1.77	1.74	1.68	1.46	
23	1.75	2.40	1.78	1.87	1.77	1.92	1.91	1.76	1.76	1.74	1.68	1.46	
24	1.85	2.31	1.78	1.86	1.77	1.89	3.03	1.75	1.77	1.74	1.67	1.46	
25	1.84	2.16	1.77	1.86	1.75	1.85	3.10	1.77	1.76	1.73	1.66	1.46	
26	1.87	2.02	1.76	1.85	1.75	1.83	2.56	1.76	1.76	1.73	1.66	1.46	
27	1.82	1.98	1.76	1.85	1.75	1.84	2.36	1.76	1.75	1.74	1.66	1.46	
28	1.80	1.96	1.76	1.85	1.74	1.86	2.21	1.75	1.73	1.75	1.67	1.44	
29	1.78	1.96	1.76	1.86	1.74	1.83	2.13	1.74	1.72	1.75		1.44	
30	1.78	2.07	1.76	1.84	1.73	1.83	2.06	1.74	1.71	1.75		1.44	
31		2.19		1.84	1.73		2.00		1.71	1.75		1.45	
MEAN	1.72	2.07	1.83	1.88	1.78	1.80	2.20	1.82	1.76	1.74	1.71	1.53	
MAX	1.95	3.46	2.13	2.44	1.87	2.09	3.10	1.98	1.81	1.76	1.75	1.67	3.46
MIN	1.58	1.70	1.76	1.74	1.73	1.71	1.85	1.74	1.71	1.71	1.66	1.44	1.44

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.37 M (A.D), AT 18.00 HOURS, ON OCT 24, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.59 M (A.D)

LEFT BANK ELEVATION — 8.48 M (A.D)

RIGHT BANK ELEVATION — 8.62 M (A.D), DRAINAGE AREA — 264 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.17	1.32	0.16	0.34	0.13	0.30	0.72	0.15	0.12	0.14	0.07	
2	0.03	0.17	1.00	0.16	0.30	0.13	0.34	0.64	0.15	0.12	0.14	0.06	
3	0.03	0.16	0.76	0.15	0.28	0.12	0.40	0.56	0.15	0.13	0.14	0.05	
4	0.03	0.16	0.56	0.16	0.24	0.12	0.38	0.48	0.15	0.12	0.14	0.05	
5	0.03	0.16	0.44	0.16	0.20	0.11	0.34	0.38	0.15	0.12	0.15	0.05	
6	0.03	0.16	0.38	0.16	0.20	0.11	3.10	0.34	0.15	0.13	0.15	0.05	
7	0.03	0.13	0.32	0.16	0.20	0.11	1.96	0.32	0.15	0.12	0.15	0.05	
8	0.03	0.12	0.30	0.14	0.20	0.11	1.12	0.30	0.15	0.12	0.15	0.05	
9	0.02	0.11	0.28	0.16	0.20	0.12	0.80	0.30	0.16	0.11	0.15	0.00	
10	0.02	0.10	0.24	0.16	0.22	0.12	0.56	0.28	0.16	0.11	0.15	0.00	
11	0.00	0.11	0.24	0.26	0.24	0.11	0.76	0.28	0.17	0.12	0.14	0.00	
12	0.00	0.24	0.22	0.20	0.20	0.11	5.20	0.24	0.17	0.13	0.12	0.00	
13	0.00	5.52	0.22	0.18	0.20	0.11	7.90	0.22	0.18	0.16	0.10	0.00	
14	0.00	12.52	0.22	0.19	0.19	0.11	3.76	0.22	0.22	0.16	0.09	0.00	
15	0.26	6.94	0.20	0.30	0.18	0.12	2.02	0.20	0.19	0.16	0.09	0.00	
16	0.60	3.10	0.19	3.04	0.18	0.15	1.32	0.20	0.18	0.16	0.10	0.00	
17	0.44	1.66	0.20	2.38	0.18	0.14	0.96	0.19	0.18	0.16	0.10	0.00	
18	0.16	1.16	0.18	2.20	0.17	0.36	0.76	0.18	0.18	0.16	0.11	0.00	
19	0.14	0.76	0.17	1.20	0.17	1.16	0.64	0.18	0.18	0.15	0.10	0.00	
20	0.14	0.72	0.17	0.76	0.17	0.52	0.60	0.17	0.18	0.15	0.10	0.00	
21	0.14	1.48	0.17	0.52	0.17	0.80	0.64	0.16	0.18	0.14	0.09	0.00	
22	0.13	1.52	0.18	0.38	0.17	0.68	0.52	0.16	0.17	0.14	0.08	0.00	
23	0.15	2.80	0.18	0.34	0.17	0.48	0.44	0.16	0.16	0.14	0.08	0.00	
24	0.30	2.26	0.18	0.32	0.17	0.38	7.60	0.15	0.17	0.14	0.07	0.00	
25	0.28	1.44	0.17	0.32	0.15	0.30	8.30	0.17	0.16	0.13	0.06	0.00	
26	0.34	0.88	0.16	0.30	0.15	0.26	3.76	0.16	0.16	0.13	0.06	0.00	
27	0.24	0.72	0.16	0.30	0.15	0.28	2.56	0.16	0.15	0.14	0.06	0.00	
28	0.20	0.64	0.16	0.30	0.14	0.32	1.66	0.15	0.13	0.15	0.07	0.00	
29	0.18	0.64	0.16	0.32	0.14	0.26	1.32	0.14	0.12	0.15		0.00	
30	0.18	1.08	0.16	0.28	0.13	0.26	1.04	0.14	0.11	0.15		0.00	
31		1.56		0.28	0.13		0.80		0.11	0.15		0.00	
TOTAL	4.16	49.19	9.29	15.94	5.93	8.09	61.86	7.95	4.97	4.27	3.08	0.43	175.16 CMSDAY
MEAN	0.14	1.59	0.31	0.51	0.19	0.27	2.00	0.26	0.16	0.14	0.11	0.01	0.48 CMS
MAX	0.60	12.52	1.32	3.04	0.34	1.16	8.30	0.72	0.22	0.16	0.15	0.07	12.52 CMS
MIN	0.00	0.10	0.16	0.14	0.13	0.11	0.30	0.14	0.11	0.11	0.06	0.00	0.00 CMS
RUNOFF	0.359	4.250	0.803	1.377	0.512	0.699	5.345	0.687	0.429	0.369	0.266	0.037	15.134 MCM

MOMENTARY PEAK 26.66 CMS, AT 4.37 M (A.D), AT 18.00 HOURS, ON OCT 24, 1978

RUNOFF YIELD 1.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 100.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRAN RIVER BASIN

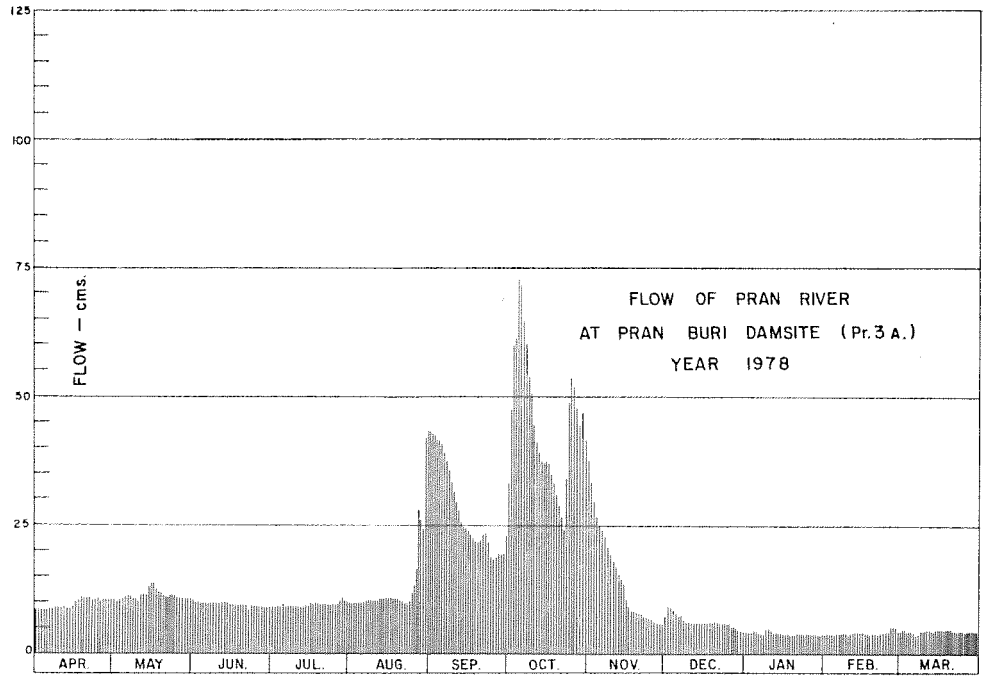
PRAN RIVER AT PRAN BURI DAMSITE, PRACHUAP KHIRI KHAN (PR.3A)

LOCATION	LAT. 12°-23'-59" N., LONG. 99°-48'-37" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS DOWNSTREAM FROM PRAN DAMSITE, AMPHOE PRAN BURI, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	2,067 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+13.80 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+26.267 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 106 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.95	16.09	16.07	16.02	16.07	17.73	17.14	17.56	15.88	15.60	15.57	15.61	
2	15.95	16.09	16.07	16.02	16.06	17.70	17.70	17.41	16.00	15.60	15.57	15.64	
3	15.95	16.09	16.06	16.03	16.06	17.67	18.30	17.22	15.98	15.60	15.56	15.59	
4	15.95	16.11	16.06	16.03	16.07	17.66	18.38	17.05	15.95	15.61	15.56	15.59	
5	15.95	16.11	16.05	16.03	16.06	17.62	18.75	16.95	15.92	15.62	15.56	15.59	
6	15.95	16.13	16.05	16.04	16.07	17.57	18.71	16.92	15.85	15.58	15.56	15.53	
7	15.96	16.14	16.04	16.03	16.08	17.50	18.54	16.87	15.87	15.54	15.56	15.53	
8	15.97	16.12	16.04	16.02	16.08	17.39	18.35	16.79	15.77	15.54	15.56	15.60	
9	15.97	16.09	16.03	16.02	16.08	17.30	18.15	16.70	15.77	15.64	15.56	15.61	
10	15.97	16.09	16.05	16.02	16.10	17.23	17.97	16.63	15.77	15.67	15.56	15.61	
11	15.97	16.10	16.06	16.02	16.10	17.12	17.82	16.57	15.77	15.57	15.56	15.61	
12	15.98	16.17	16.05	16.02	16.12	17.04	17.66	16.50	15.77	15.57	15.56	15.60	
13	15.98	16.17	16.05	16.02	16.12	16.97	17.56	16.43	15.77	15.57	15.56	15.58	
14	15.99	16.23	16.03	16.02	16.12	16.93	17.49	16.38	15.77	15.57	15.56	15.61	
15	16.01	16.30	16.02	16.03	16.13	16.89	17.47	16.29	15.77	15.57	15.56	15.61	
16	16.05	16.32	16.03	16.03	16.11	16.86	17.48	16.01	15.77	15.57	15.56	15.61	
17	16.08	16.23	16.03	16.04	16.11	16.82	17.44	15.98	15.77	15.57	15.56	15.61	
18	16.12	16.19	16.02	16.05	16.11	16.78	17.35	15.96	15.77	15.57	15.56	15.61	
19	16.12	16.16	16.03	16.05	16.11	16.76	17.25	15.94	15.77	15.57	15.56	15.61	
20	16.10	16.14	16.03	16.04	16.11	16.78	17.16	15.92	15.76	15.57	15.56	15.61	
21	16.12	16.13	16.04	16.04	16.09	16.82	17.06	15.90	15.76	15.57	15.56	15.58	
22	16.08	16.14	15.93	16.04	16.04	16.86	16.97	15.88	15.76	15.57	15.56	15.58	
23	16.08	16.15	16.03	16.05	16.04	16.85	16.89	15.87	15.76	15.57	15.59	15.58	
24	16.09	16.14	16.02	16.05	16.06	16.70	17.40	15.85	15.76	15.57	15.69	15.58	
25	16.09	16.11	16.01	16.05	16.12	16.58	18.08	15.83	15.76	15.57	15.69	15.58	
26	16.07	16.11	16.02	16.05	16.33	16.62	18.11	15.81	15.73	15.57	15.69	15.58	
27	16.10	16.10	16.01	16.05	16.74	16.66	17.98	15.79	15.68	15.57	15.69	15.58	
28	16.10	16.10	16.01	16.09	17.08	16.64	17.85	15.77	15.68	15.57	15.58	15.58	
29	16.09	16.09	16.02	16.13	16.88	16.66	17.78	15.76	15.61	15.57		15.58	
30	16.09	16.09	16.02	16.10	17.68	16.76	17.87	15.74	15.60	15.56		15.58	
31		16.08		16.07	17.73		17.72		15.60	15.57		15.58	
MEAN	16.03	16.14	16.03	16.04	16.28	17.05	17.75	16.34	15.78	15.58	15.58	15.59	
MAX	16.12	16.32	16.07	16.13	17.73	17.73	18.75	17.56	16.00	15.67	15.69	15.64	18.75
MIN	15.95	16.08	15.93	16.02	16.04	16.58	16.89	15.74	15.60	15.54	15.56	15.53	15.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 18.81 M (MSL), AT 23.00 HOURS, ON OCT 5, 1978
ZERO GAGE AT BOTTOM ELEVATION 13.80 M (MSL), RIVER BED 14.25 M (MSL)
LEFT BANK ELEVATION 26.90 M (MSL)
RIGHT BANK ELEVATION 25.56 M (MSL), DRAINAGE AREA 2067 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.30	10.26	9.98	9.28	9.98	43.18	29.12	39.04	7.36	4.20	3.90	4.30	
2	8.30	10.26	9.98	9.28	9.84	42.40	42.40	35.44	9.00	4.20	3.90	4.60	
3	8.30	10.26	9.84	9.42	9.84	41.68	59.00	30.96	8.72	4.20	3.80	4.10	
4	8.30	10.54	9.84	9.42	9.98	41.44	61.40	27.10	8.30	4.30	3.80	4.10	
5	8.30	10.54	9.70	9.42	9.84	40.48	72.50	25.00	7.88	4.40	3.80	4.10	
6	8.30	10.82	9.70	9.56	9.98	39.28	71.30	24.40	7.00	4.00	3.80	3.50	
7	8.44	10.96	9.56	9.42	10.12	37.60	66.20	23.43	7.24	3.60	3.80	3.50	
8	8.58	10.68	9.56	9.28	10.12	34.96	60.50	21.91	6.04	3.60	3.80	4.20	
9	8.58	10.26	9.42	9.28	10.12	32.80	54.50	20.20	6.04	4.60	3.80	4.30	
10	8.58	10.26	9.70	9.28	10.40	31.19	49.42	18.94	6.04	4.90	3.80	4.30	
11	8.58	10.40	9.84	9.28	10.40	28.66	45.52	17.86	6.04	3.90	3.80	4.30	
12	8.72	11.38	9.70	9.28	10.68	26.88	41.44	16.60	6.04	3.90	3.80	4.20	
13	8.72	11.38	9.70	9.28	10.68	25.40	39.04	15.34	6.04	3.90	3.80	4.00	
14	8.86	12.22	9.42	9.28	10.68	24.60	37.36	14.48	6.04	3.90	3.80	4.30	
15	9.14	13.20	9.28	9.42	10.82	23.81	36.88	13.06	6.04	3.90	3.80	4.30	
16	9.70	13.52	9.42	9.42	10.54	23.24	37.12	9.14	6.04	3.90	3.80	4.30	
17	10.12	12.22	9.42	9.56	10.54	22.48	36.16	8.72	6.04	3.90	3.80	4.30	
18	10.68	11.66	9.28	9.70	10.54	21.72	34.00	8.44	6.04	3.90	3.80	4.30	
19	10.68	11.24	9.42	9.70	10.54	21.34	31.65	8.16	6.04	3.90	3.80	4.30	
20	10.40	10.96	9.42	9.56	10.54	21.72	29.58	7.88	5.92	3.90	3.80	4.30	
21	10.68	10.82	9.56	9.56	10.26	22.48	27.32	7.60	5.92	3.90	3.80	4.00	
22	10.12	10.96	8.02	9.56	9.56	23.24	25.40	7.36	5.92	3.90	3.80	4.00	
23	10.12	11.10	9.42	9.70	9.56	23.05	23.81	7.24	5.92	3.90	4.10	4.00	
24	10.26	10.96	9.28	9.70	9.84	20.20	35.20	7.00	5.92	3.90	5.10	4.00	
25	10.26	10.54	9.14	9.70	10.68	18.04	52.44	6.76	5.92	3.90	5.10	4.00	
26	9.98	10.54	9.28	9.70	13.68	18.76	53.30	6.52	5.56	3.90	5.10	4.00	
27	10.40	10.40	9.14	9.70	20.96	19.48	49.68	6.28	5.00	3.90	5.10	4.00	
28	10.40	10.40	9.14	10.26	27.76	19.12	46.30	6.04	5.00	3.90	4.00	4.00	
29	10.26	10.26	9.28	10.82	23.62	19.48	44.48	5.92	4.30	3.90		4.00	
30	10.26	10.26	9.28	10.40	41.92	21.34	46.82	5.68	4.20	3.80		4.00	
31		10.12		9.98	43.18		42.92		4.20	3.90		4.00	
TOTAL	282.32	339.38	283.72	297.20	427.20	830.05	1382.76	452.50	191.76	123.80	112.30	127.60	4850.58 CMSDAY
MEAN	9.41	10.95	9.46	9.59	13.78	27.67	44.61	15.08	6.19	3.99	4.01	4.12	13.29 CMS
MAX	10.68	13.52	9.98	10.82	43.18	43.18	72.50	39.04	9.00	4.90	5.10	4.60	72.50 CMS
MIN	8.30	10.12	8.02	9.28	9.56	18.04	23.81	5.68	4.20	3.60	3.80	3.50	3.50 CMS
RUNOFF	24.392	29.322	24.513	25.678	36.910	71.716	119.470	39.096	16.568	10.696	9.703	11.025	419.090 MCM

MOMENTARY PEAK 74.32 CMS, AT 18.81 M (MSL), AT 23.00 HOURS, ON OCT 5, 1978

RUNOFF YIELD 6.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

PRAN RIVER BASIN

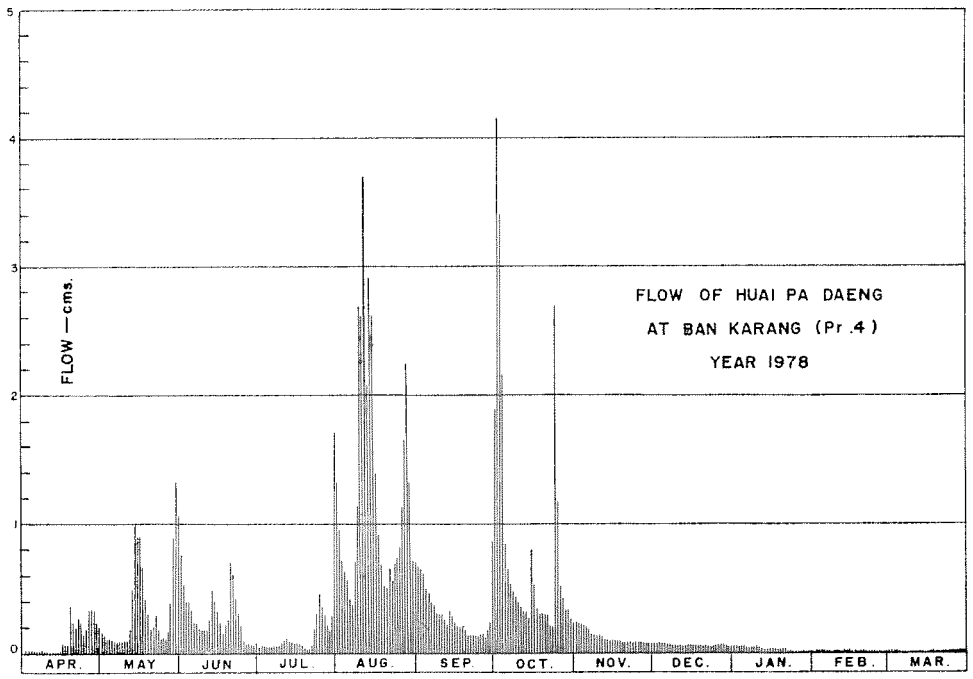
HUAI PA DAENG AT BAN KARANG, PHETCHABURI (PR.4)

LOCATION	LAT. 12°-35'-00" N., LONG. 99°-31'-51" E., ON LEFT BANK AT BAN KARANG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	38 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+148.50 M. (M.S.L.)
BENCH MARK	B.M.-H.S./R.I.D.-9.
LOCATION	AT PHRA RATCHATHAN HUAI PHA THENG SCHOOL.
ELEVATION	162.867 M. (M.S.L.)
GAGE READING FREQUENCY	12-TIME DAILY READING AT 07.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 12 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 82 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	148.62	148.81	148.92	148.75	149.00	148.93	149.18	148.83	148.77	148.74	148.69	148.61	
2	148.61	148.80	148.90	148.74	148.95	148.93	149.33	148.83	148.77	148.74	148.69	148.61	
3	148.58	148.79	148.87	148.75	148.93	148.92	149.25	148.83	148.77	148.73	148.69	148.61	
4	148.53	148.79	148.87	148.74	148.92	148.90	149.02	148.83	148.77	148.73	148.69	148.61	
5	148.52	148.78	148.85	148.74	148.89	148.89	148.95	148.82	148.77	148.73	148.69	148.61	
6	148.53	148.78	148.83	148.74	148.87	148.87	148.92	148.82	148.77	148.73	148.69	148.62	
7	148.62	148.78	148.83	148.74	148.93	148.87	148.90	148.81	148.76	148.73	148.69	148.62	
8	148.60	148.78	148.82	148.74	148.97	148.85	148.89	148.81	148.76	148.73	148.69	148.62	
9	148.54	148.80	148.82	148.74	149.20	148.85	148.88	148.81	148.76	148.73	148.68	148.62	
10	148.52	148.79	148.82	148.77	149.19	148.85	148.87	148.81	148.76	148.73	148.68	148.62	
11	148.52	148.80	148.82	148.80	149.29	148.84	148.86	148.80	148.76	148.73	148.68	148.62	
12	148.52	148.83	148.85	148.79	149.13	148.83	148.85	148.80	148.76	148.72	148.68	148.62	
13	148.52	148.94	148.90	148.78	149.22	148.86	148.86	148.80	148.76	148.72	148.67	148.62	
14	148.70	149.00	148.87	148.77	149.19	148.85	148.84	148.80	148.76	148.72	148.67	148.62	
15	148.72	148.98	148.85	148.77	149.07	148.84	148.96	148.79	148.75	148.72	148.67	148.62	
16	148.77	148.98	148.83	148.77	148.99	148.83	148.89	148.79	148.75	148.72	148.66	148.62	
17	148.75	148.93	148.81	148.76	148.95	148.83	148.86	148.79	148.75	148.72	148.66	148.63	
18	148.75	148.87	148.83	148.73	148.91	148.83	148.85	148.79	148.75	148.72	148.66	148.63	
19	148.87	148.85	148.84	148.72	148.90	148.82	148.85	148.78	148.75	148.72	148.65	148.63	
20	148.83	148.82	148.94	148.72	148.92	148.81	148.85	148.78	148.75	148.72	148.64	148.63	
21	148.82	148.83	148.93	148.75	148.93	148.81	148.85	148.78	148.75	148.72	148.64	148.63	
22	148.84	148.85	148.87	148.78	148.91	148.81	148.83	148.78	148.75	148.72	148.63	148.63	
23	148.83	148.82	148.85	148.83	148.95	148.81	148.83	148.78	148.75	148.72	148.63	148.63	
24	148.81	148.80	148.84	148.87	148.95	148.81	149.20	148.78	148.75	148.72	148.62	148.63	
25	148.83	148.80	148.79	148.89	148.97	148.81	148.98	148.78	148.75	148.71	148.62	148.63	
26	148.86	148.79	148.78	148.86	149.07	148.81	148.90	148.78	148.75	148.71	148.61	148.63	
27	148.86	148.84	148.77	148.85	149.15	148.80	148.88	148.77	148.75	148.71	148.61	148.63	
28	148.85	148.92	148.77	148.83	149.07	148.83	148.86	148.77	148.75	148.71	148.61	148.62	
29	148.83	149.03	148.76	148.82	149.01	148.84	148.86	148.77	148.74	148.71		148.62	
30	148.82	149.04	148.77	148.89	148.94	149.00	148.84	148.77	148.74	148.71		148.62	
31		149.00		149.09	148.94		148.83		148.74	148.70		148.62	
MEAN	148.70	148.86	148.84	148.79	149.01	148.85	148.93	148.80	148.76	148.72	148.66	148.62	
MAX	148.87	149.04	148.94	149.09	149.29	149.00	149.33	148.83	148.77	148.74	148.69	148.63	149.33
MIN	148.52	148.78	148.76	148.72	148.87	148.80	148.83	148.77	148.74	148.70	148.61	148.61	148.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 149.40 M (MSL), AT 7.00 HOURS, ON OCT 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 148.50 M (MSL), RIVER BED 148.40 M (MSL)
LEFT BANK ELEVATION 160.00 M (MSL)
RIGHT BANK ELEVATION 151.60 M (MSL), DRAINAGE AREA 38 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.14	0.60	0.05	1.00	0.65	2.52	0.22	0.07	0.04	0.00	0.00	
2	0.00	0.10	0.50	0.04	0.75	0.65	4.16	0.22	0.07	0.04	0.00	0.00	
3	0.00	0.09	0.38	0.05	0.65	0.60	3.25	0.22	0.07	0.03	0.00	0.00	
4	0.00	0.09	0.38	0.04	0.60	0.50	1.16	0.22	0.07	0.03	0.00	0.00	
5	0.00	0.08	0.30	0.04	0.46	0.46	0.75	0.18	0.07	0.03	0.00	0.00	
6	0.00	0.08	0.22	0.04	0.38	0.38	0.60	0.18	0.07	0.03	0.00	0.00	
7	0.00	0.08	0.22	0.04	0.65	0.38	0.50	0.14	0.06	0.03	0.00	0.00	
8	0.00	0.08	0.18	0.04	0.85	0.30	0.46	0.14	0.06	0.03	0.00	0.00	
9	0.00	0.10	0.18	0.04	2.70	0.30	0.42	0.14	0.06	0.03	0.00	0.00	
10	0.00	0.09	0.18	0.07	2.61	0.30	0.38	0.14	0.06	0.03	0.00	0.00	
11	0.00	0.10	0.18	0.19	3.69	0.26	0.34	0.10	0.06	0.03	0.00	0.00	
12	0.00	0.22	0.30	0.09	2.07	0.22	0.30	0.10	0.06	0.02	0.00	0.00	
13	0.00	0.70	0.50	0.08	2.92	0.34	0.34	0.10	0.06	0.02	0.00	0.00	
14	0.00	1.00	0.38	0.07	2.61	0.30	0.26	0.10	0.06	0.02	0.00	0.00	
15	0.02	0.90	0.30	0.07	1.56	0.26	0.80	0.09	0.05	0.02	0.00	0.00	
16	0.07	0.90	0.22	0.07	0.95	0.22	0.46	0.09	0.05	0.02	0.00	0.00	
17	0.05	0.65	0.14	0.06	0.75	0.22	0.34	0.09	0.05	0.02	0.00	0.00	
18	0.05	0.38	0.22	0.03	0.55	0.22	0.30	0.09	0.05	0.02	0.00	0.00	
19	0.38	0.30	0.26	0.02	0.50	0.18	0.30	0.08	0.05	0.02	0.00	0.00	
20	0.22	0.18	0.70	0.02	0.60	0.14	0.30	0.08	0.05	0.02	0.00	0.00	
21	0.18	0.22	0.65	0.05	0.65	0.14	0.30	0.08	0.05	0.02	0.00	0.00	
22	0.26	0.30	0.38	0.08	0.56	0.14	0.22	0.08	0.05	0.02	0.00	0.00	
23	0.22	0.18	0.30	0.22	0.75	0.14	0.22	0.08	0.05	0.02	0.00	0.00	
24	0.14	0.10	0.26	0.38	0.75	0.14	2.70	0.08	0.05	0.02	0.00	0.00	
25	0.22	0.10	0.09	0.46	0.85	0.14	0.90	0.08	0.05	0.01	0.00	0.00	
26	0.34	0.09	0.08	0.34	1.56	0.14	0.50	0.08	0.05	0.01	0.00	0.00	
27	0.34	0.26	0.07	0.30	2.25	0.10	0.42	0.07	0.05	0.01	0.00	0.00	
28	0.30	0.60	0.07	0.22	1.56	0.22	0.34	0.07	0.05	0.01	0.00	0.00	
29	0.22	1.24	0.06	0.18	1.08	0.26	0.34	0.07	0.04	0.01		0.00	
30	0.18	1.32	0.07	0.46	0.70	1.00	0.26	0.07	0.04	0.01		0.00	
31		1.00		1.72	0.70		0.22		0.04	0.00		0.00	
TOTAL	3.19	11.67	8.37	5.47	38.25	9.30	24.36	3.48	1.72	0.67	0.00	0.00	106.48 CMSDAY
MEAN	0.11	0.38	0.28	0.18	1.23	0.31	0.79	0.12	0.06	0.02	0.00	0.00	0.29 CMS
MAX	0.38	1.32	0.70	1.72	3.69	1.00	4.16	0.22	0.07	0.04	0.00	0.00	4.16 CMS
MIN	0.00	0.08	0.06	0.02	0.38	0.10	0.22	0.07	0.04	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.276	1.008	0.723	0.473	3.305	0.804	2.105	0.301	0.149	0.058	0.000	0.000	9.200 MCM

MOMENTARY PEAK 5.00 CMS, AT 149.40 M (MSL), AT 7.00 HOURS, ON OCT 2, 1978

RUNOFF YIELD 7.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 131.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

TRIBUTARIES TO THE GULF OF THAILAND

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.S.

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 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 104 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

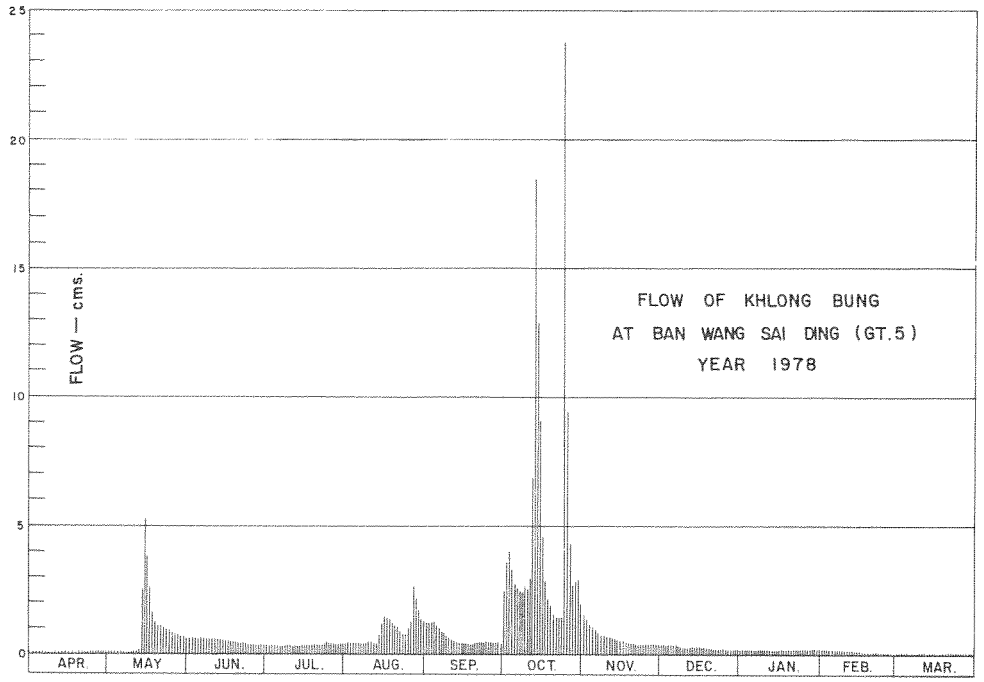
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.02	2.02	1.95	1.98	2.17	2.08	2.23	1.95	1.90	1.88	1.80	
2	0.04	0.02	2.03	1.95	1.98	2.16	2.43	2.19	1.95	1.90	1.88	1.80	
3	0.04	0.02	2.03	1.95	1.98	2.17	2.50	2.16	1.94	1.90	1.88	1.79	
4	0.04	0.02	2.03	1.95	1.98	2.17	2.46	2.14	1.94	1.89	1.87	1.79	
5	0.04	0.02	2.03	1.95	1.98	2.14	2.40	2.12	1.94	1.89	1.87	1.78	
6	0.04	0.15	2.03	1.95	1.98	2.11	2.38	2.10	1.94	1.89	1.87	1.77	
7	0.04	0.29	2.03	1.95	1.98	2.08	2.36	2.08	1.94	1.89	1.87	1.75	
8	0.04	0.45	2.03	1.95	1.98	2.06	2.36	2.06	1.93	1.89	1.87	1.69	
9	0.04	0.63	2.03	1.95	1.99	2.04	2.38	2.06	1.93	1.89	1.87	1.62	
10	0.04	0.74	2.02	1.95	1.99	2.03	2.36	2.05	1.93	1.89	1.87	1.57	
11	0.04	0.84	2.02	1.95	1.99	2.01	2.41	2.04	1.93	1.89	1.86	1.53	
12	0.04	0.95	2.02	1.95	1.99	2.01	2.54	2.04	1.92	1.89	1.86	1.46	
13	0.04	1.44	2.01	1.95	1.99	2.00	3.12	2.03	1.92	1.89	1.86	1.38	
14	0.04	2.42	2.01	1.95	2.03	1.99	2.94	2.02	1.92	1.89	1.86	1.30	
15	0.04	2.58	2.00	1.95	2.16	1.99	2.80	2.01	1.92	1.89	1.86	1.25	
16	0.04	2.43	2.00	1.95	2.21	1.98	2.54	2.00	1.92	1.89	1.85	1.20	
17	0.04	2.31	2.00	1.96	2.19	1.98	2.41	1.99	1.92	1.89	1.85	1.14	
18	0.04	2.23	2.00	1.96	2.18	1.97	2.33	1.99	1.92	1.89	1.85	1.01	
19	0.04	2.17	1.99	1.96	2.16	1.97	2.29	1.98	1.91	1.89	1.84	0.78	
20	0.04	2.13	1.98	1.96	2.14	1.99	2.25	1.98	1.91	1.89	1.84	0.61	
21	0.04	2.13	1.98	1.96	2.12	1.99	2.22	1.98	1.91	1.89	1.83	0.38	
22	0.04	2.11	1.98	1.96	2.10	1.99	2.20	1.98	1.91	1.89	1.83	0.15	
23	0.04	2.10	1.97	1.96	2.07	1.99	2.20	1.98	1.91	1.89	1.83	0.01	
24	0.04	2.08	1.96	1.96	2.07	2.00	3.24	1.97	1.91	1.88	1.82	0.01	
25	0.04	2.06	1.96	1.97	2.11	1.99	3.02	1.97	1.91	1.88	1.82	0.01	
26	0.04	2.05	1.96	1.97	2.17	1.98	2.63	1.97	1.90	1.88	1.81	0.01	
27	0.04	2.05	1.96	1.97	2.38	1.98	2.47	1.96	1.90	1.88	1.81	0.01	
28	0.04	2.05	1.95	1.97	2.34	1.98	2.38	1.96	1.90	1.88	1.81	0.01	
29	0.04	2.03	1.95	1.97	2.26	1.98	2.41	1.96	1.90	1.88		0.01	
30	0.04	2.03	1.95	1.97	2.20	1.98	2.34	1.95	1.90	1.88		0.01	
31		2.02		1.97	2.18		2.28		1.90	1.88		0.01	
MEAN	0.04	1.44	2.00	1.96	2.09	2.03	2.48	2.03	1.92	1.89	1.85	0.96	
MAX	0.04	2.58	2.03	1.97	2.38	2.17	3.24	2.23	1.95	1.90	1.88	1.80	3.24
MIN	0.04	0.02	1.95	1.95	1.98	1.97	2.08	1.95	1.90	1.88	1.81	0.01	0.01

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.75 M (A.D), AT 12.00 HOURS, ON OCT 24, 1978

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 — 5.61 M (A.D); DRAINAGE AREA 141 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.58	0.35	0.44	1.25	0.82	1.58	0.35	0.20	0.16	0.00	
2	0.00	0.00	0.62	0.35	0.44	1.20	3.16	1.35	0.35	0.20	0.16	0.00	
3	0.00	0.00	0.62	0.35	0.44	1.25	4.00	1.20	0.32	0.20	0.16	0.00	
4	0.00	0.00	0.62	0.35	0.44	1.25	3.52	1.10	0.32	0.18	0.14	0.00	
5	0.00	0.00	0.62	0.35	0.44	1.10	2.80	1.00	0.32	0.18	0.14	0.00	
6	0.00	0.00	0.62	0.35	0.44	0.95	2.64	0.90	0.32	0.18	0.14	0.00	
7	0.00	0.00	0.62	0.35	0.44	0.82	2.48	0.82	0.32	0.18	0.14	0.00	
8	0.00	0.00	0.62	0.35	0.44	0.74	2.48	0.74	0.29	0.16	0.14	0.00	
9	0.00	0.00	0.62	0.35	0.47	0.66	2.64	0.74	0.29	0.18	0.14	0.00	
10	0.00	0.00	0.58	0.35	0.47	0.62	2.48	0.70	0.29	0.18	0.14	0.00	
11	0.00	0.00	0.58	0.35	0.47	0.54	2.92	0.66	0.29	0.18	0.12	0.00	
12	0.00	0.00	0.58	0.35	0.47	0.54	4.56	0.66	0.26	0.18	0.12	0.00	
13	0.00	0.00	0.54	0.35	0.47	0.50	18.44	0.62	0.26	0.18	0.12	0.00	
14	0.00	3.04	0.54	0.35	0.62	0.47	12.60	0.58	0.26	0.18	0.12	0.00	
15	0.00	5.12	0.50	0.35	1.20	0.47	9.20	0.54	0.26	0.18	0.12	0.00	
16	0.00	3.16	0.50	0.35	1.46	0.44	4.56	0.50	0.26	0.18	0.10	0.00	
17	0.00	2.08	0.50	0.38	1.35	0.44	2.92	0.47	0.26	0.18	0.10	0.00	
18	0.00	1.58	0.50	0.38	1.30	0.41	2.24	0.47	0.26	0.18	0.10	0.00	
19	0.00	1.25	0.47	0.38	1.20	0.41	1.94	0.44	0.23	0.18	0.08	0.00	
20	0.00	1.05	0.44	0.38	1.10	0.47	1.70	0.44	0.23	0.18	0.08	0.00	
21	0.00	1.05	0.44	0.38	1.00	0.47	1.52	0.44	0.23	0.18	0.06	0.00	
22	0.00	0.95	0.44	0.38	0.90	0.47	1.40	0.44	0.23	0.18	0.06	0.00	
23	0.00	0.90	0.41	0.38	0.78	0.47	1.40	0.44	0.23	0.18	0.06	0.00	
24	0.00	0.82	0.38	0.38	0.78	0.50	23.72	0.41	0.23	0.16	0.04	0.00	
25	0.00	0.74	0.38	0.41	0.95	0.47	15.04	0.41	0.23	0.16	0.04	0.00	
26	0.00	0.70	0.38	0.41	1.25	0.44	5.94	0.41	0.20	0.16	0.02	0.00	
27	0.00	0.70	0.38	0.41	2.64	0.44	3.64	0.38	0.20	0.16	0.02	0.00	
28	0.00	0.70	0.35	0.41	2.32	0.44	2.64	0.38	0.20	0.16	0.02	0.00	
29	0.00	0.62	0.35	0.41	1.76	0.44	2.92	0.38	0.20	0.16		0.00	
30	0.00	0.62	0.35	0.41	1.40	0.44	2.32	0.35	0.20	0.16		0.00	
31		0.58		0.41	1.30		1.88		0.20	0.16		0.00	
TOTAL	0.00	25.66	15.13	11.51	29.18	19.11	150.52	19.55	8.09	5.48	2.84	0.00	287.07 CMSDAY
MEAN	0.00	0.83	0.50	0.37	0.94	0.64	4.86	0.65	0.26	0.18	0.10	0.00	0.79 CMS
MAX	0.00	5.12	0.62	0.41	2.64	1.25	23.72	1.58	0.35	0.20	0.16	0.00	23.72 CMS
MIN	0.00	0.00	0.35	0.35	0.44	0.41	0.82	0.35	0.20	0.16	0.02	0.00	0.00 CMS
RUNOFF	0.000	2.217	1.307	0.994	2.521	1.651	13.005	1.689	0.699	0.473	0.245	0.000	24.803 MCM

MOMENTARY PEAK 162.70 CMS, AT 4.75 M (A.D), AT 12.00 HOURS, ON OCT 24, 1978
RUNOFF YIELD 5.58 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1153.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

TRIBUTARIES TO THE GULF OF THAILAND

HUAI 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.S.

LOCATION — ON LEFT BANK NEAR THE METEOROLOGICAL STATION.

ELEVATION — +15.345 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 119 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

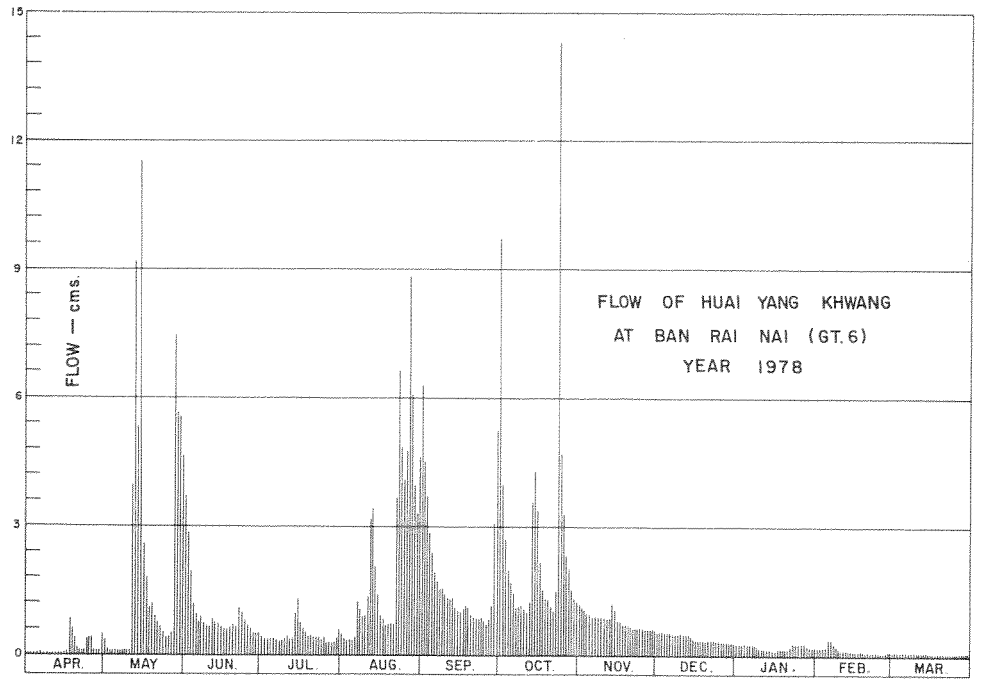
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.64	1.11	0.68	0.68	1.33	1.55	0.83	0.71	0.64	0.62	0.56	
2	*******	0.60	1.02	0.67	0.67	1.23	1.23	0.82	0.71	0.64	0.62	0.56	
3	*******	0.60	0.96	0.67	0.66	1.13	1.05	0.81	0.71	0.64	0.62	0.55	
4	*******	0.58	0.86	0.67	0.66	1.04	0.96	0.79	0.71	0.64	0.62	0.55	
5	*******	0.58	0.82	0.67	0.66	0.97	0.92	0.79	0.71	0.64	0.67	0.55	
6	*******	0.57	0.78	0.67	0.68	0.94	0.91	0.78	0.71	0.64	0.67	0.55	
7	*******	0.59	0.78	0.66	0.84	0.91	0.85	0.78	0.70	0.64	0.64	0.55	
8	*******	0.60	0.75	0.66	0.81	0.89	0.81	0.78	0.70	0.64	0.63	0.55	
9	*******	0.58	0.74	0.67	0.78	0.89	0.83	0.78	0.70	0.61	0.61	0.55	
10	*******	0.58	0.73	0.68	0.79	0.86	0.82	0.77	0.70	0.61	0.60	0.55	
11	*******	0.65	0.73	0.68	0.87	0.85	0.80	0.77	0.70	0.61	0.60	0.54	
12	*******	1.52	0.76	0.67	1.06	0.85	0.80	0.77	0.69	0.61	0.59	0.54	
13	*******	1.26	0.74	0.67	1.09	0.85	0.83	0.77	0.69	0.61	0.59	0.54	
14	*******	1.65	0.74	0.79	0.93	0.82	1.11	0.83	0.68	0.61	0.59	0.54	
15	*******	1.22	0.73	0.85	0.86	0.81	1.17	0.77	0.67	0.60	0.59	0.53	
16	*******	1.00	0.72	0.75	0.79	0.80	1.09	0.76	0.66	0.60	0.59	0.53	
17	0.77	0.91	0.72	0.73	0.77	0.82	0.95	0.75	0.66	0.62	0.58	0.53	
18	0.73	0.82	0.72	0.70	0.74	0.83	0.88	0.74	0.66	0.62	0.58	0.53	
19	0.68	0.83	0.73	0.68	0.74	0.82	0.85	0.74	0.66	0.61	0.56	0.53	
20	0.61	0.78	0.74	0.69	0.75	0.79	0.85	0.74	0.66	0.61	0.55	0.53	
21	0.60	0.76	0.72	0.68	0.74	0.78	0.82	0.73	0.66	0.61	0.55	0.53	
22	0.59	0.74	0.82	0.68	1.10	0.77	0.80	0.73	0.66	0.62	0.55	0.53	
23	0.59	0.71	0.80	0.68	1.42	0.77	0.89	0.73	0.66	0.64	0.55	0.53	
24	0.67	0.69	0.75	0.66	1.23	0.78	1.80	0.73	0.66	0.64	0.55	0.53	
25	0.68	0.68	0.74	0.67	1.15	0.77	1.31	0.78	0.66	0.64	0.55	0.53	
26	0.61	0.69	0.72	0.65	1.29	0.74	1.08	0.72	0.65	0.64	0.55	0.53	
27	0.59	0.76	0.72	0.65	1.50	0.75	0.98	0.72	0.65	0.64	0.55	0.53	
28	0.58	1.41	0.70	0.65	1.37	0.82	0.94	0.72	0.65	0.63	0.56	0.53	
29	0.59	1.29	0.70	0.65	1.16	0.90	0.89	0.72	0.65	0.62		0.54	
30	0.69	1.28	0.70	0.68	1.08	1.10	0.85	0.72	0.65	0.62		0.55	
31		1.22		0.71	1.14		0.84		0.64	0.62		0.55	
MEAN	*******	0.86	0.77	0.69	0.94	0.89	0.98	0.76	0.68	0.62	0.59	0.54	
MAX	0.77	1.65	1.11	0.85	1.50	1.33	1.80	0.83	0.71	0.64	0.67	0.56	1.80
MIN	*******	0.57	0.70	0.65	0.66	0.74	0.80	0.72	0.64	0.60	0.55	0.53	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.24 M (A.D), AT 6.00 HOURS, ON OCT 24, 1978

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 37 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.26	3.61	0.42	0.42	6.25	9.70	1.18	0.55	0.26	0.18	0.06	
2	*******	0.10	2.70	0.38	0.38	4.96	4.96	1.12	0.55	0.26	0.18	0.06	
3	*******	0.10	2.14	0.38	0.34	3.83	3.00	1.06	0.55	0.26	0.18	0.05	
4	*******	0.08	1.36	0.38	0.34	2.90	2.14	0.95	0.55	0.26	0.18	0.05	
5	*******	0.08	1.12	0.38	0.34	2.23	1.78	0.95	0.55	0.26	0.38	0.05	
6	*******	0.07	0.90	0.38	0.42	1.96	1.69	0.90	0.55	0.26	0.38	0.05	
7	*******	0.09	0.90	0.34	1.24	1.69	1.30	0.90	0.50	0.26	0.26	0.05	
8	*******	0.10	0.75	0.34	1.06	1.54	1.06	0.90	0.50	0.26	0.22	0.05	
9	*******	0.08	0.70	0.38	0.90	1.54	1.18	0.90	0.50	0.14	0.14	0.05	
10	*******	0.08	0.65	0.42	0.95	1.36	1.12	0.85	0.50	0.14	0.10	0.05	
11	*******	0.30	0.65	0.42	1.42	1.30	1.00	0.85	0.50	0.14	0.10	0.04	
12	*******	9.16	0.80	0.38	3.10	1.30	1.00	0.85	0.46	0.14	0.09	0.04	
13	*******	5.32	0.70	0.38	3.40	1.30	1.18	0.85	0.46	0.14	0.09	0.04	
14	*******	11.50	0.70	0.95	1.87	1.12	3.61	1.18	0.42	0.14	0.09	0.04	
15	*******	4.84	0.65	1.30	1.36	1.06	4.27	0.85	0.38	0.10	0.09	0.03	
16	*******	2.50	0.60	0.75	0.95	1.00	3.40	0.80	0.34	0.10	0.09	0.03	
17	0.85	1.69	0.60	0.65	0.85	1.12	2.05	0.75	0.34	0.18	0.08	0.03	
18	0.65	1.12	0.60	0.50	0.70	1.18	1.48	0.70	0.34	0.18	0.08	0.03	
19	0.42	1.18	0.65	0.42	0.70	1.12	1.30	0.70	0.34	0.14	0.06	0.03	
20	0.14	0.90	0.70	0.46	0.75	0.95	1.30	0.70	0.34	0.14	0.05	0.03	
21	0.10	0.80	0.60	0.42	0.70	0.90	1.12	0.65	0.34	0.14	0.05	0.03	
22	0.09	0.70	1.12	0.42	3.50	0.85	1.00	0.65	0.34	0.18	0.05	0.03	
23	0.09	0.55	1.00	0.42	7.60	0.85	1.54	0.65	0.34	0.26	0.05	0.03	
24	0.38	0.46	0.75	0.34	4.96	0.90	14.30	0.65	0.34	0.26	0.05	0.03	
25	0.42	0.42	0.70	0.38	4.05	0.85	5.95	0.90	0.34	0.26	0.05	0.03	
26	0.14	0.46	0.60	0.30	5.68	0.70	3.30	0.60	0.30	0.26	0.05	0.03	
27	0.09	0.80	0.60	0.30	8.80	0.75	2.32	0.60	0.30	0.26	0.05	0.03	
28	0.08	7.45	0.50	0.30	6.85	1.12	1.96	0.60	0.30	0.22	0.06	0.03	
29	0.09	5.68	0.50	0.30	4.16	1.60	1.54	0.60	0.30	0.18		0.04	
30	0.46	5.56	0.50	0.42	3.30	3.50	1.30	0.60	0.30	0.18		0.05	
31		4.84		0.55	3.94		1.24		0.26	0.18		0.05	
TOTAL	*******	67.27	28.35	14.16	75.03	51.73	84.09	24.44	12.68	6.14	3.43	1.24	******** CMSDAY
MEAN	*******	2.17	0.94	0.46	2.42	1.72	2.71	0.81	0.41	0.20	0.12	0.04	******* CMS
MAX	0.85	11.50	3.61	1.30	8.80	6.25	14.30	1.18	0.55	0.26	0.38	0.06	14.30 CMS
MIN	*******	0.07	0.50	0.30	0.34	0.70	1.00	0.60	0.26	0.10	0.05	0.03	******* CMS
RUNOFF	*******	5.812	2.449	1.223	6.483	4.469	7.265	2.112	1.096	0.530	0.296	0.107	******** MCM

MOMENTARY PEAK 23.76 CMS, AT 2.24 M (A.D), AT 6.00 HOURS, ON OCT 24, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 642.16 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

KHLONG RAP RO AT BAN THA KHAM, 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.-H.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 168 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

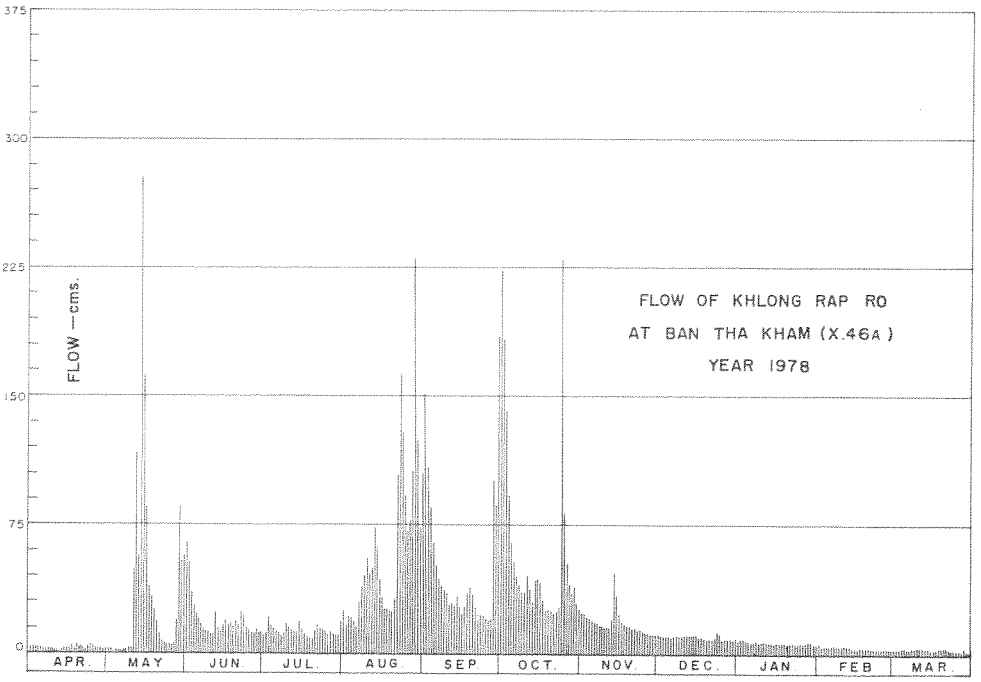
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.95	0.91	2.37	1.34	1.71	3.50	4.22	1.69	1.34	1.20	1.08	0.94	
2	0.97	0.89	2.23	1.46	1.51	3.08	3.77	1.65	1.33	1.20	1.07	0.93	
3	0.91	0.88	1.91	1.64	1.62	2.84	2.94	1.62	1.32	1.19	1.07	0.93	
4	0.89	0.86	1.73	1.48	1.56	2.55	2.64	1.59	1.32	1.19	1.08	0.94	
5	0.88	0.85	1.63	1.45	1.49	2.31	2.37	1.57	1.32	1.19	1.07	0.94	
6	0.87	0.89	1.59	1.40	1.45	2.14	2.20	1.56	1.31	1.18	1.07	0.94	
7	0.87	0.99	1.48	1.36	1.87	2.03	2.07	1.55	1.31	1.18	1.06	0.94	
8	0.93	1.00	1.44	1.35	2.00	1.99	1.97	1.53	1.30	1.17	1.05	1.03	
9	0.88	1.04	1.37	1.40	2.11	1.92	1.90	1.51	1.30	1.17	1.05	0.95	
10	0.87	0.97	1.33	1.54	2.16	1.85	1.95	1.49	1.29	1.17	1.03	0.93	
11	0.85	1.63	1.37	1.46	2.11	1.79	2.08	1.48	1.29	1.17	1.03	0.92	
12	0.85	3.06	1.71	1.47	2.22	1.80	1.90	1.47	1.28	1.16	1.02	0.91	
13	0.84	2.20	1.45	1.37	2.53	1.80	1.81	1.64	1.27	1.16	1.01	0.89	
14	1.00	4.72	1.43	1.38	2.17	1.87	2.05	2.08	1.27	1.15	1.00	0.88	
15	1.06	3.45	1.46	1.57	2.07	1.75	2.04	1.81	1.26	1.15	1.00	0.86	
16	1.00	2.34	1.58	1.40	1.85	1.71	2.01	1.61	1.25	1.15	1.00	0.86	
17	1.25	2.03	1.52	1.32	1.73	1.81	1.82	1.55	1.25	1.14	1.07	0.85	
18	1.03	1.87	1.57	1.27	1.74	1.94	1.74	1.53	1.24	1.13	1.04	0.90	
19	1.09	1.74	1.49	1.28	1.71	1.96	1.74	1.49	1.24	1.13	1.02	0.96	
20	1.00	1.60	1.57	1.28	1.77	1.81	1.73	1.46	1.23	1.13	1.01	0.91	
21	1.06	1.39	1.46	1.51	2.10	1.71	1.72	1.45	1.23	1.12	1.00	0.87	
22	0.97	1.22	1.70	1.53	2.99	1.66	1.71	1.42	1.22	1.12	0.99	0.85	
23	1.13	1.15	1.67	1.43	3.63	1.66	1.78	1.41	1.25	1.12	0.98	0.83	
24	1.09	1.12	1.50	1.40	2.88	1.63	4.28	1.40	1.36	1.11	0.97	0.83	
25	0.98	1.11	1.43	1.39	2.73	1.60	2.73	1.39	1.25	1.15	0.96	0.82	
26	0.94	1.10	1.38	1.31	2.48	1.57	2.35	1.38	1.24	1.12	0.95	0.82	
27	0.95	1.15	1.38	1.39	2.72	1.59	2.06	1.37	1.23	1.11	0.95	0.81	
28	0.93	1.85	1.44	1.34	4.31	2.87	1.91	1.36	1.22	1.11	0.94	0.81	
29	0.93	2.67	1.38	1.33	3.14	2.69	1.96	1.35	1.22	1.10		0.81	
30	0.92	2.21	1.41	1.44	2.67	3.92	1.79	1.35	1.21	1.09		0.87	
31		2.26		1.57	2.53		1.72		1.21	1.09		0.92	
MEAN	0.96	1.65	1.57	1.41	2.24	2.11	2.22	1.53	1.27	1.15	1.02	0.89	
MAX	1.25	4.72	2.37	1.64	4.31	3.92	4.28	2.08	1.36	1.20	1.08	1.03	4.72
MIN	0.84	0.85	1.33	1.27	1.45	1.57	1.71	1.35	1.21	1.09	0.94	0.81	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.35 M (A.D), AT 6.00 HOURS, ON MAY 14, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.22 M (A.D)

LEFT BANK ELEVATION — 11.80 M (A.D)

RIGHT BANK ELEVATION — 11.16 M (A.D), DRAINAGE AREA — 617 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.40	1.92	62.90	11.20	24.53	152.00	222.00	23.60	11.20	7.00	4.60	2.28	
2	2.64	1.72	53.90	14.80	16.40	116.40	177.00	22.00	10.90	7.00	4.40	2.16	
3	1.92	1.64	35.18	21.60	20.80	98.80	105.80	20.80	10.60	6.80	4.40	2.16	
4	1.72	1.48	25.59	15.40	18.40	75.50	82.20	19.60	10.60	6.80	4.60	2.28	
5	1.64	1.40	21.20	14.50	15.70	58.70	62.90	18.80	10.60	6.80	4.40	2.28	
6	1.56	1.72	19.60	13.00	14.50	48.64	52.15	18.40	10.30	6.60	4.40	2.28	
7	1.56	2.88	15.40	11.80	33.01	42.20	44.54	18.00	10.30	6.60	4.20	2.28	
8	2.16	3.00	14.20	11.50	40.45	39.86	38.69	17.20	10.00	6.40	4.00	3.60	
9	1.64	3.80	12.10	13.00	46.88	35.77	34.60	16.40	10.00	6.40	4.00	2.40	
10	1.56	2.64	10.90	17.60	49.81	31.95	37.52	15.70	9.70	6.40	3.60	2.16	
11	1.40	21.20	12.10	14.80	46.88	28.77	45.13	15.40	9.70	6.40	3.60	2.04	
12	1.40	114.80	24.53	15.10	53.32	29.30	34.60	15.10	9.40	6.20	3.40	1.92	
13	1.32	52.15	14.50	12.10	74.10	29.30	29.83	21.60	9.10	6.20	3.20	1.72	
14	3.00	276.40	13.90	12.40	50.39	33.01	43.37	45.13	9.10	6.00	3.00	1.64	
15	4.20	147.50	14.80	18.80	44.54	26.65	42.79	29.83	8.80	6.00	3.00	1.48	
16	3.00	60.80	19.20	13.00	31.95	24.53	41.03	20.40	8.50	6.00	3.00	1.48	
17	8.50	42.20	16.80	10.60	25.59	29.83	30.36	18.00	8.50	5.80	4.40	1.40	
18	3.60	33.01	18.80	9.10	26.12	36.94	26.12	17.20	8.20	5.60	3.80	1.80	
19	4.80	26.12	15.70	9.40	24.53	38.11	26.12	15.70	8.20	5.60	3.40	2.52	
20	3.00	20.00	18.80	9.40	27.71	29.83	25.59	14.80	7.90	5.60	3.20	1.92	
21	4.20	12.70	14.80	16.40	46.30	24.53	25.06	14.50	7.90	5.40	3.00	1.56	
22	2.64	7.60	24.00	17.20	109.30	22.40	24.53	13.60	7.60	5.40	2.88	1.40	
23	5.60	6.00	22.80	13.90	163.70	22.40	28.24	13.30	8.50	5.40	2.76	1.24	
24	4.80	5.40	16.00	13.00	101.60	21.20	228.00	13.00	11.80	5.20	2.64	1.24	
25	2.76	5.20	13.90	12.70	89.70	20.00	89.70	12.70	8.50	6.00	2.52	1.16	
26	2.28	5.00	12.40	10.30	70.60	18.80	61.50	12.40	8.20	5.40	2.40	1.16	
27	2.40	6.00	12.40	12.70	88.80	19.60	43.96	12.10	7.90	5.20	2.40	1.08	
28	2.16	31.95	14.20	11.20	231.00	100.90	35.18	11.80	7.60	5.20	2.28	1.08	
29	2.16	84.60	12.40	10.90	121.20	86.20	38.11	11.50	7.60	5.00		1.08	
30	2.04	52.73	13.30	14.20	84.60	192.00	28.77	11.50	7.30	4.80		1.56	
31		55.66		18.80	74.10		25.06		7.30	4.80		2.04	
TOTAL	84.06	1089.22	596.30	420.40	1866.51	1534.12	1830.45	530.06	281.80	184.00	97.48	56.40	8570.78 CMSDAY
MEAN	2.80	35.14	19.88	13.56	60.21	51.14	59.05	17.67	9.09	5.94	3.48	1.82	23.48 CMS
MAX	8.50	276.40	62.90	21.60	231.00	192.00	228.00	45.13	11.80	7.00	4.60	3.60	276.40 CMS
MIN	1.32	1.40	10.90	9.10	14.50	18.80	24.53	11.50	7.30	4.80	2.28	1.08	1.08 CMS
RUNOFF	7.263	94.109	51.520	36.323	161.266	132.548	158.151	45.797	24.347	15.898	8.422	4.873	740.516 MCM

MOMENTARY PEAK 484.00 CMS, AT 6.35 M (A.D), AT 6.00 HOURS, ON MAY 14, 1978

RUNOFF YIELD 38.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 784.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 183 DISCHARGE MEASUREMENTS MADE IN 1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

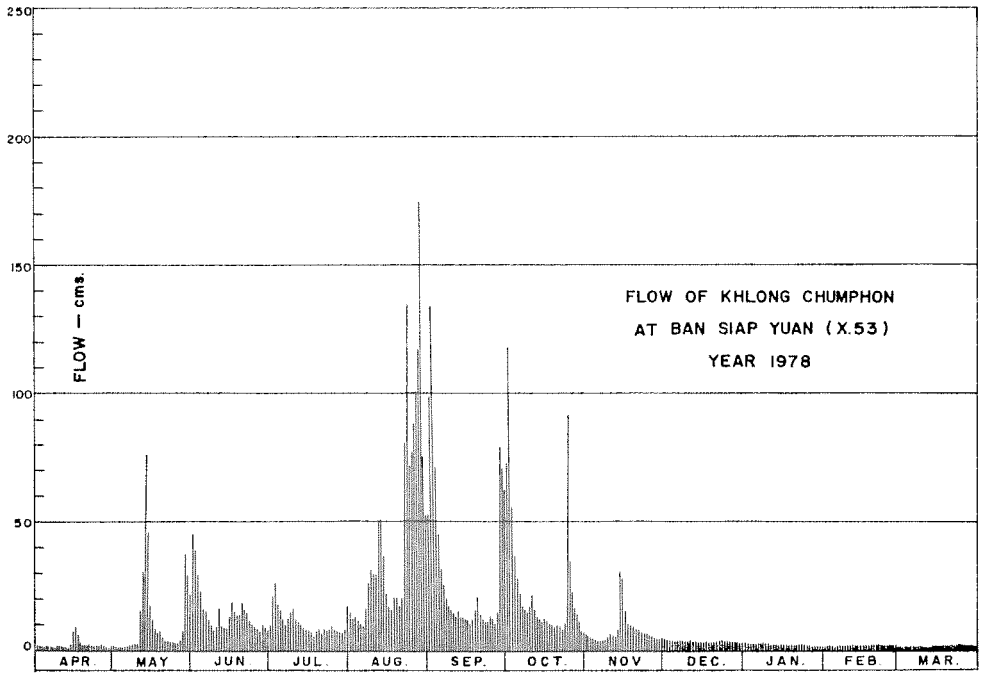
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.58	2.22	1.17	1.35	3.95	3.69	0.93	0.83	0.70	0.62	0.56	
2	0.67	0.57	1.97	1.65	1.25	3.22	2.88	0.89	0.82	0.70	0.62	0.56	
3	0.59	0.56	1.75	1.73	1.25	2.81	2.24	0.86	0.80	0.70	0.62	0.58	
4	0.59	0.56	1.53	1.45	1.20	2.39	1.94	0.83	0.80	0.70	0.62	0.59	
5	0.59	0.56	1.38	1.31	1.13	1.99	1.73	0.81	0.80	0.70	0.62	0.58	
6	0.57	0.60	1.36	1.20	1.14	1.73	1.55	0.80	0.80	0.70	0.62	0.58	
7	0.56	0.66	1.21	1.15	1.35	1.57	1.42	0.79	0.79	0.69	0.62	0.57	
8	0.56	0.71	1.12	1.31	1.74	1.46	1.37	0.91	0.78	0.69	0.61	0.56	
9	0.56	0.72	1.02	1.43	1.85	1.40	1.38	0.96	0.77	0.68	0.61	0.56	
10	0.56	0.67	1.13	1.38	1.83	1.34	1.59	0.94	0.76	0.68	0.60	0.56	
11	0.56	1.28	1.43	1.25	1.77	1.28	1.46	0.92	0.76	0.68	0.60	0.56	
12	0.56	1.85	1.11	1.17	2.37	1.34	1.31	0.92	0.76	0.67	0.60	0.55	
13	0.57	1.78	1.07	1.10	2.38	1.25	1.25	1.09	0.75	0.66	0.60	0.55	
14	0.69	2.91	1.09	1.05	1.85	1.26	1.20	1.87	0.75	0.66	0.60	0.55	
15	1.04	1.41	1.34	1.02	1.59	1.21	1.26	1.70	0.75	0.66	0.60	0.55	
16	1.10	1.10	1.51	0.97	1.44	1.16	1.24	1.27	0.75	0.66	0.60	0.55	
17	0.98	0.99	1.38	0.94	1.38	1.17	1.15	1.14	0.75	0.66	0.62	0.55	
18	0.76	0.95	1.30	0.93	1.54	1.30	1.13	1.11	0.75	0.66	0.61	0.55	
19	0.69	1.00	1.35	1.04	1.55	1.55	1.10	1.08	0.75	0.65	0.61	0.56	
20	0.70	0.89	1.48	0.98	1.45	1.36	1.14	1.03	0.75	0.65	0.61	0.56	
21	0.70	0.82	1.37	0.98	1.49	1.25	1.13	0.99	0.75	0.64	0.61	0.56	
22	0.67	0.78	1.34	1.09	3.04	1.20	1.07	0.97	0.75	0.64	0.59	0.56	
23	0.64	0.75	1.22	1.03	3.97	1.20	1.18	0.95	0.75	0.64	0.58	0.55	
24	0.69	0.72	1.13	1.06	2.83	1.30	3.23	0.92	0.75	0.64	0.58	0.54	
25	0.64	0.71	1.06	1.14	3.01	1.27	2.12	0.91	0.75	0.64	0.58	0.54	
26	0.60	0.69	1.03	1.04	3.33	1.17	1.65	0.89	0.74	0.64	0.58	0.53	
27	0.59	0.80	1.04	1.00	3.55	1.40	1.35	0.87	0.72	0.64	0.57	0.53	
28	0.59	1.17	1.14	1.00	4.56	2.98	1.19	0.85	0.71	0.63	0.57	0.54	
29	0.58	2.02	1.05	1.02	3.12	2.87	1.10	0.84	0.71	0.62		0.54	
30	0.58	1.73	1.05	1.09	2.42	2.64	1.02	0.84	0.70	0.62		0.54	
31		1.56		1.45	2.39		0.97		0.70	0.62		0.59	
MEAN	0.66	1.04	1.31	1.17	2.10	1.73	1.55	1.00	0.76	0.66	0.60	0.56	
MAX	1.10	2.91	2.22	1.73	4.56	3.95	3.69	1.87	0.83	0.70	0.62	0.59	4.56
MIN	0.56	0.56	1.02	0.93	1.13	1.16	0.97	0.79	0.70	0.62	0.57	0.53	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.60 M (A.D), AT 24.00 HOURS, ON AUG 22, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.14 M (A.D)

LEFT BANK ELEVATION 12.53 M (A.D)

RIGHT BANK ELEVATION 10.91 M (A.D), DRAINAGE AREA 223 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	0.90	44.30	10.40	14.75	133.50	117.90	5.60	3.95	2.00	1.20	0.80	
2	1.70	0.85	34.45	23.50	12.25	91.10	74.00	4.85	3.80	2.00	1.20	0.80	
3	0.95	0.80	26.75	26.05	12.25	70.50	45.10	4.40	3.50	2.00	1.20	0.90	
4	0.95	0.80	19.90	17.50	11.00	51.10	33.40	3.95	3.50	2.00	1.20	0.95	
5	0.95	0.80	15.50	13.75	9.60	35.15	26.05	3.65	3.50	2.00	1.20	0.90	
6	0.85	1.00	15.00	11.00	9.80	26.05	20.50	3.50	3.50	2.00	1.20	0.90	
7	0.80	1.60	11.25	10.00	14.75	21.10	16.60	3.35	3.35	1.90	1.20	0.85	
8	0.80	2.15	9.40	13.75	26.40	17.80	15.25	5.20	3.20	1.90	1.10	0.80	
9	0.80	2.30	7.40	16.90	30.25	16.00	15.50	6.20	3.05	1.80	1.10	0.80	
10	0.80	1.70	9.60	15.50	29.55	14.50	21.70	5.80	2.90	1.80	1.00	0.80	
11	0.80	13.00	16.90	12.25	27.45	13.00	17.80	5.40	2.90	1.80	1.00	0.80	
12	0.80	30.25	9.20	10.40	50.30	14.50	13.75	5.40	2.90	1.70	1.00	0.75	
13	0.85	27.80	8.40	9.00	50.70	12.25	12.25	8.80	2.75	1.60	1.00	0.75	
14	1.90	75.50	8.80	8.00	30.25	12.50	11.00	30.95	2.75	1.60	1.00	0.75	
15	7.80	16.30	14.50	7.40	21.70	11.25	12.50	25.00	2.75	1.60	1.00	0.75	
16	9.00	9.00	19.30	6.40	17.20	10.20	12.00	12.75	2.75	1.60	1.00	0.75	
17	6.60	6.80	15.50	5.80	15.50	10.40	10.00	9.80	2.75	1.60	1.20	0.75	
18	2.90	6.00	13.50	5.60	20.20	13.50	9.60	9.20	2.75	1.60	1.10	0.75	
19	1.90	7.00	14.75	7.80	20.50	20.50	9.00	8.60	2.75	1.50	1.10	0.80	
20	2.00	4.85	18.40	6.60	17.50	15.00	9.80	7.60	2.75	1.50	1.10	0.80	
21	2.00	3.80	15.25	6.60	18.70	12.25	9.60	6.80	2.75	1.40	1.10	0.80	
22	1.70	3.20	14.50	8.80	82.00	11.00	8.40	6.40	2.75	1.40	0.95	0.80	
23	1.40	2.75	11.50	7.60	134.70	11.00	10.60	6.00	2.75	1.40	0.90	0.75	
24	1.90	2.30	9.60	8.20	71.50	13.50	91.65	5.40	2.75	1.40	0.90	0.70	
25	1.40	2.15	8.20	9.80	80.50	12.75	40.30	5.20	2.75	1.40	0.90	0.70	
26	1.00	1.90	7.60	7.80	97.15	10.40	23.50	4.85	2.60	1.40	0.90	0.65	
27	0.95	3.50	7.80	7.00	109.50	16.00	14.75	4.55	2.30	1.40	0.85	0.65	
28	0.95	10.40	9.80	7.00	174.00	79.00	10.80	4.25	2.15	1.30	0.85	0.70	
29	0.90	36.30	8.00	7.40	86.00	73.50	9.00	4.10	2.15	1.20		0.70	
30	0.90	26.05	8.00	8.80	52.40	62.30	7.40	4.10	2.00	1.20		0.70	
31		20.80		17.50	51.10		6.40		2.00	1.20		0.95	
TOTAL	57.45	322.55	433.05	334.10	1399.45	911.60	736.10	221.65	89.00	50.20	29.45	24.25	4608.84 CMSDAY
MEAN	1.91	10.40	14.43	10.78	45.14	30.39	23.75	7.39	2.87	1.62	1.05	0.78	12.63 CMS
MAX	9.00	75.50	44.30	26.05	174.00	133.50	117.90	30.95	3.95	2.00	1.20	0.95	174.00 CMS
MIN	0.80	0.80	7.40	5.60	9.60	10.20	6.40	3.35	2.00	1.20	0.85	0.65	0.65 CMS
RUNOFF	4.964	27.868	37.415	28.866	120.912	78.762	63.599	19.151	7.690	4.337	2.544	2.095	398.204 MCM

MOMENTARY PEAK 259.00 CMS, AT 5.60 M (A.D), AT 24.00 HOURS, ON AUG 22, 1978

RUNOFF YIELD 56.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1161.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-M.S.

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 — OVERBANK FLOW STARTS AT ELEVATION +6.06 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 354 DISCHARGE MEASUREMENTS MADE DURING 1974-1975.

REMARKS — NO RECORDS ON SEPT 1-30, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR.APRIL 1, 1978 TO MARCH 31, 1979

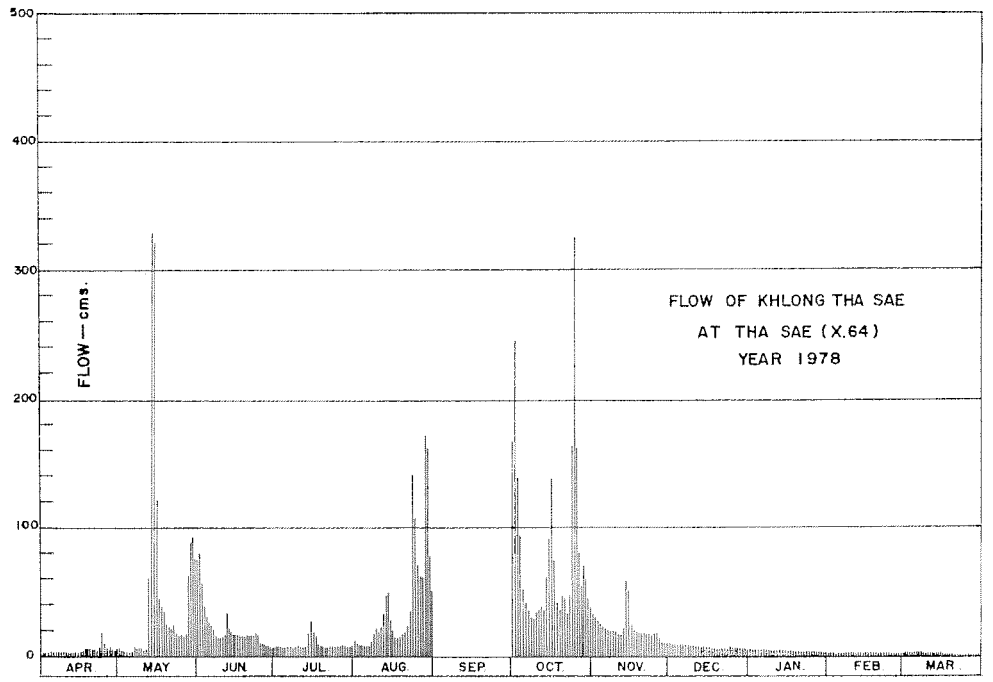
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.73	3.06	0.82	0.99	*******	4.97	1.80	0.93	0.71	0.60	0.60	
2	0.58	0.63	2.48	0.84	0.91	*******	6.18	1.66	0.90	0.71	0.60	0.60	
3	0.58	0.58	1.93	0.82	0.88	*******	4.41	1.59	0.89	0.70	0.60	0.60	
4	0.58	0.58	1.67	0.81	0.85	*******	3.41	1.51	0.88	0.70	0.60	0.60	
5	0.58	0.54	1.52	0.80	0.84	*******	2.35	1.44	0.88	0.69	0.60	0.60	
6	0.58	0.53	1.44	0.81	0.84	*******	2.07	1.39	0.87	0.69	0.60	0.60	
7	0.58	0.77	1.32	0.82	0.88	*******	1.82	1.35	0.86	0.68	0.60	0.60	
8	0.58	0.71	1.13	0.76	1.14	*******	1.65	1.30	0.84	0.67	0.60	0.60	
9	0.58	0.78	1.11	0.81	1.34	*******	1.58	1.28	0.83	0.67	0.60	0.60	
10	0.58	0.65	1.11	0.83	1.29	*******	1.79	1.24	0.82	0.66	0.60	0.60	
11	0.58	0.68	1.19	0.83	1.42	*******	1.84	1.20	0.81	0.66	0.60	0.60	
12	0.58	2.60	1.77	0.80	1.76	*******	1.95	1.18	0.81	0.66	0.60	0.60	
13	0.58	5.66	1.36	0.81	2.22	*******	1.79	1.32	0.80	0.66	0.60	0.60	
14	0.58	7.18	1.22	1.23	2.27	*******	2.60	2.52	0.79	0.66	0.60	0.60	
15	0.58	7.11	1.18	1.59	1.59	*******	3.16	2.27	0.78	0.65	0.60	0.60	
16	0.58	3.98	1.18	1.30	1.16	*******	4.37	1.54	0.76	0.65	0.60	0.60	
17	0.67	2.11	1.17	1.15	1.10	*******	2.92	1.35	0.75	0.64	0.60	0.45	
18	0.76	1.90	1.16	0.91	1.08	*******	2.09	1.29	0.74	0.64	0.60	0.45	
19	0.73	1.73	1.16	0.82	1.22	*******	1.89	1.24	0.74	0.63	0.60	0.45	
20	0.66	1.47	1.16	0.80	1.26	*******	2.19	1.23	0.74	0.62	0.60	0.45	
21	0.69	1.35	1.16	0.80	1.39	*******	2.13	1.22	0.72	0.62	0.60	0.45	
22	0.67	1.48	1.15	0.80	1.83	*******	1.77	1.22	0.72	0.61	0.60	0.45	
23	0.74	1.24	1.23	0.80	4.44	*******	2.18	1.22	0.75	0.60	0.60	0.45	
24	1.26	1.17	1.18	0.80	3.73	*******	4.89	1.20	0.74	0.60	0.60	0.45	
25	0.87	1.17	0.92	0.80	2.86	*******	7.13	1.20	0.84	0.60	0.60	0.45	
26	0.72	1.16	0.91	0.81	2.66	*******	4.89	1.20	0.79	0.60	0.60	0.45	
27	0.81	1.18	0.86	0.83	2.64	*******	3.09	1.16	0.75	0.60	0.60	0.45	
28	0.74	2.64	0.85	0.81	5.03	*******	2.40	0.97	0.75	0.60	0.60	0.44	
29	0.66	3.29	0.83	0.79	4.84	*******	2.82	0.95	0.75	0.60		0.44	
30	0.71	3.37	0.82	0.79	3.02	*******	2.30	0.94	0.75	0.60		0.43	
31		2.94		0.82	2.32		1.96		0.73	0.60		0.42	
MEAN	0.67	2.00	1.31	0.88	1.93	*******	2.92	1.37	0.80	0.64	0.60	0.53	
MAX	1.26	7.18	3.06	1.59	5.03	*******	7.13	2.52	0.93	0.71	0.60	0.60	7.18
MIN	0.58	0.53	0.82	0.76	0.84	*******	1.58	0.94	0.72	0.60	0.60	0.42	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 7.91 M (A.D), AT 24.00 HOURS, ON MAY 14, 1978

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 — 7.40 M (A.D), DRAINAGE AREA — 957 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.70	5.60	78.40	7.40	11.25	*******	166.50	33.50	9.75	5.20	3.00	3.00	
2	2.70	3.60	55.80	7.80	9.25	*******	244.00	29.30	9.00	5.20	3.00	3.00	
3	2.70	2.70	37.40	7.40	8.60	*******	138.50	27.20	8.80	5.00	3.00	3.00	
4	2.70	2.70	29.60	7.20	8.00	*******	92.45	24.80	8.60	5.00	3.00	3.00	
5	2.70	2.10	25.10	7.00	7.80	*******	51.25	22.70	8.60	4.80	3.00	3.00	
6	2.70	1.95	22.70	7.20	7.80	*******	41.60	21.25	8.40	4.80	3.00	3.00	
7	2.70	6.40	19.50	7.40	8.60	*******	34.10	20.25	8.20	4.60	3.00	3.00	
8	2.70	5.20	14.75	6.20	15.00	*******	29.00	19.00	7.80	4.40	3.00	3.00	
9	2.70	6.60	14.25	7.20	20.00	*******	26.90	18.50	7.60	4.40	3.00	3.00	
10	2.70	4.00	14.25	7.60	18.75	*******	33.20	17.50	7.40	4.20	3.00	3.00	
11	2.70	4.60	16.25	7.60	22.10	*******	34.70	16.50	7.20	4.20	3.00	3.00	
12	2.70	60.00	32.60	7.00	32.30	*******	38.00	16.00	7.20	4.20	3.00	3.00	
13	2.70	207.40	20.50	7.20	46.70	*******	33.20	19.50	7.00	4.20	3.00	3.00	
14	2.70	328.20	17.00	17.25	48.45	*******	60.00	57.20	6.80	4.20	3.00	3.00	
15	2.70	321.90	16.00	27.20	27.20	*******	82.40	48.45	6.60	4.00	3.00	3.00	
16	2.70	118.10	16.00	19.00	15.50	*******	136.50	25.70	6.20	4.00	3.00	3.00	
17	4.40	42.85	15.75	15.25	14.00	*******	72.80	20.25	6.00	3.80	3.00	0.75	
18	6.20	36.50	15.50	9.25	13.50	*******	42.20	18.75	5.80	3.80	3.00	0.75	
19	5.60	31.40	15.50	7.40	17.00	*******	36.20	17.50	5.80	3.60	3.00	0.75	
20	4.20	23.60	15.50	7.00	18.00	*******	45.65	17.25	5.80	3.40	3.00	0.75	
21	4.80	20.25	15.50	7.00	21.25	*******	43.55	17.00	5.40	3.40	3.00	0.75	
22	4.40	23.90	15.25	7.00	34.40	*******	32.60	17.00	5.40	3.20	3.00	0.75	
23	5.80	17.50	17.25	7.00	140.00	*******	45.30	17.00	6.00	3.00	3.00	0.75	
24	18.00	15.75	16.00	7.00	106.85	*******	162.50	16.50	5.80	3.00	3.00	0.75	
25	8.40	15.75	9.50	7.00	70.40	*******	323.70	16.50	7.80	3.00	3.00	0.75	
26	5.40	15.50	9.25	7.20	62.40	*******	162.50	16.50	6.80	3.00	3.00	0.75	
27	7.20	16.00	8.20	7.60	61.60	*******	79.60	15.50	6.00	3.00	3.00	0.75	
28	5.80	61.60	8.00	7.20	169.65	*******	53.00	10.75	6.00	3.00	3.00	0.60	
29	4.20	87.60	7.60	6.80	160.00	*******	68.80	10.25	6.00	3.00		0.60	
30	5.20	90.80	7.40	6.80	76.80	*******	49.50	10.00	6.00	3.00		0.45	
31		73.60		7.40	50.20		38.30		5.60	3.00		0.30	
TOTAL	132.80	1653.65	606.30	274.55	1323.35	*******	2498.50	638.10	215.35	120.60	84.00	58.20	******* CMSDAY
MEAN	4.43	53.34	20.21	8.86	42.69	*******	80.60	21.27	6.95	3.89	3.00	1.88	******* CMS
MAX	18.00	328.20	78.40	27.20	169.65	*******	323.70	57.20	9.75	5.20	3.00	3.00	328.20 CMS
MIN	2.70	1.95	7.40	6.20	7.80	*******	26.90	10.00	5.40	3.00	3.00	0.30	******* CMS
RUNOFF	11.474	142.875	52.384	23.721	114.337	*******	215.870	55.132	18.606	10.420	7.258	5.028	******* MCM

MOMENTARY PEAK 400.55 CMS, AT 7.91 M (A.D), AT 24.00 HOURS, ON MAY 14, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 418.55 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

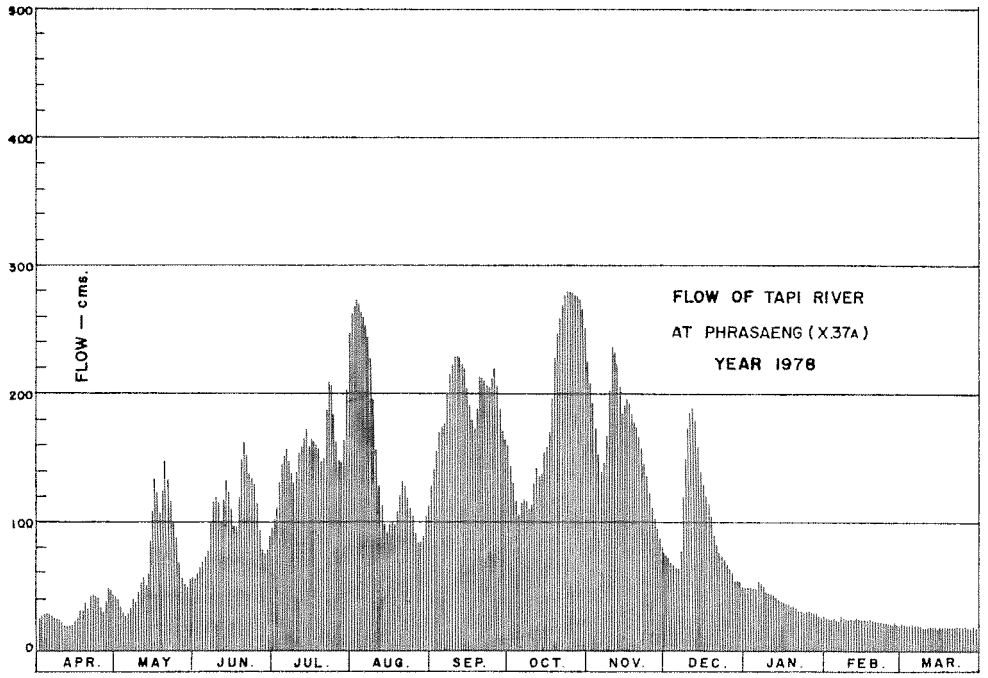
TAPI RIVER AT PHRASAENG, SURAT THANI (X.37A)

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	+4.833 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
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 8 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.63	6.07	6.42	7.26	9.65	7.76	8.27	9.15	6.79	6.28	5.71	5.49	
2	5.69	5.97	6.52	7.37	9.80	8.02	8.06	8.83	6.77	6.27	5.70	5.47	
3	5.71	5.83	6.63	7.59	9.82	8.22	7.81	8.61	6.67	6.26	5.69	5.46	
4	5.73	5.75	6.68	7.95	9.75	8.42	7.56	8.33	6.63	6.26	5.68	5.46	
5	5.68	5.71	6.73	8.10	9.67	8.50	7.40	8.08	6.61	6.26	5.67	5.46	
6	5.63	5.77	6.88	8.21	9.60	8.55	7.54	7.96	6.61	6.38	5.66	5.44	
7	5.63	5.88	7.21	8.13	9.44	8.88	7.59	8.07	6.92	6.35	5.65	5.43	
8	5.61	6.06	7.57	7.95	9.19	9.10	7.55	8.38	7.92	6.28	5.64	5.46	
9	5.53	6.03	7.60	7.82	8.88	9.18	7.49	8.92	8.46	6.21	5.63	5.45	
10	5.49	6.14	7.50	7.88	8.52	9.24	7.54	9.24	8.65	6.17	5.63	5.44	
11	5.45	6.33	7.26	8.15	8.14	9.24	7.79	9.31	8.70	6.13	5.62	5.45	
12	5.43	6.45	7.61	8.24	7.77	9.21	7.96	9.18	8.59	6.09	5.61	5.44	
13	5.43	6.33	7.82	8.33	7.47	9.16	7.89	8.89	8.38	6.07	5.59	5.42	
14	5.50	6.64	7.66	8.45	7.24	9.05	7.94	8.65	8.10	6.03	5.59	5.41	
15	5.61	7.39	7.36	8.22	7.13	8.85	8.21	8.75	7.89	6.00	5.60	5.40	
16	5.73	7.86	7.18	8.31	7.23	8.67	8.30	8.79	7.67	5.97	5.61	5.39	
17	5.85	7.67	7.18	8.30	7.29	8.54	8.62	8.73	7.57	5.94	5.60	5.39	
18	5.87	7.38	7.59	8.26	7.25	8.47	9.08	8.61	7.43	5.91	5.60	5.39	
19	5.93	7.63	8.15	8.21	7.45	8.76	9.35	8.52	7.23	5.89	5.61	5.39	
20	5.86	8.05	8.29	8.07	7.70	9.05	9.53	8.49	7.06	5.87	5.58	5.39	
21	6.06	8.07	8.11	8.12	7.84	9.01	9.69	8.33	6.88	5.86	5.57	5.39	
22	6.13	7.72	7.89	8.63	7.75	8.97	9.81	8.16	6.81	5.84	5.55	5.38	
23	6.08	7.41	7.85	8.98	7.57	8.93	9.89	8.01	6.73	5.83	5.54	5.38	
24	6.08	7.19	7.77	8.91	7.49	8.95	9.92	7.82	6.67	5.82	5.52	5.38	
25	5.89	6.89	7.52	8.59	7.33	9.11	9.91	7.61	6.64	5.82	5.51	5.37	
26	5.78	6.60	7.22	8.27	7.15	9.05	9.89	7.43	6.57	5.81	5.50	5.35	
27	5.99	6.41	6.95	8.03	7.01	8.83	9.87	7.28	6.49	5.79	5.49	5.35	
28	6.23	6.28	6.79	8.05	7.05	8.60	9.85	7.09	6.41	5.77	5.48	5.35	
29	6.21	6.26	6.87	8.33	7.14	8.40	9.77	6.99	6.37	5.75		5.34	
30	6.13	6.41	7.11	8.91	7.42	8.32	9.67	6.89	6.32	5.74		5.38	
31		6.45		9.39	7.60		9.49		6.28	5.73		5.39	
MEAN	5.79	6.67	7.33	8.23	8.08	8.77	8.69	8.30	7.19	6.01	5.60	5.41	
MAX	6.23	8.07	8.29	9.39	9.82	9.24	9.92	9.31	8.70	6.38	5.71	5.49	9.92
MIN	5.43	5.71	6.42	7.26	7.01	7.76	7.40	6.89	6.28	5.73	5.48	5.34	5.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.92 M (MSL), AT 12.00 HOURS, ON OCT 24, 1978
ZERO GAGE AT BOTTOM ELEVATION 4.83 M (MSL), RIVER BED 4.38 M (MSL)
LEFT BANK ELEVATION 12.73 M (MSL)
RIGHT BANK ELEVATION 12.82 M (MSL), DRAINAGE AREA 5200 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.05	40.80	56.00	99.30	260.25	128.60	160.05	222.75	74.50	49.60	26.85	19.70	
2	26.15	36.80	61.00	105.35	271.50	144.20	146.60	198.75	73.50	49.15	26.50	19.10	
3	26.85	31.20	66.50	118.40	273.00	156.80	131.60	183.20	68.50	48.70	26.15	18.80	
4	27.55	28.25	69.00	140.00	267.75	169.90	116.60	163.95	66.50	48.70	25.80	18.80	
5	25.80	26.85	71.50	149.00	261.75	175.50	107.00	147.80	65.50	48.70	25.45	18.80	
6	24.05	28.95	79.00	156.15	256.50	179.00	115.40	140.60	65.50	54.10	25.10	18.20	
7	24.05	33.20	96.55	150.95	244.50	202.50	118.40	147.20	81.00	52.75	24.75	17.90	
8	23.35	40.40	117.20	140.00	225.75	219.00	116.00	167.20	138.20	49.60	24.40	18.80	
9	20.90	39.20	119.00	132.20	202.50	225.00	112.40	205.50	172.70	46.45	24.05	18.50	
10	19.70	43.60	113.00	135.80	176.90	229.50	115.40	229.50	186.00	44.80	24.05	18.20	
11	18.50	51.85	99.30	152.25	151.60	229.50	130.40	234.75	189.50	43.20	23.70	18.50	
12	17.90	57.50	119.60	158.10	129.20	227.25	140.60	225.00	181.80	41.60	23.35	18.20	
13	17.90	51.85	132.20	163.95	111.20	223.50	136.40	203.25	167.20	40.80	22.70	17.60	
14	20.00	67.00	122.60	172.00	98.20	215.25	139.40	186.00	149.00	39.20	22.70	17.30	
15	23.35	106.45	104.80	156.80	92.15	200.25	156.15	193.00	136.40	38.00	23.00	17.00	
16	27.55	134.60	94.90	162.65	97.65	187.40	162.00	195.80	123.20	36.80	23.35	16.70	
17	32.00	123.20	94.90	162.00	100.95	178.30	183.90	191.60	117.20	35.60	23.00	16.70	
18	32.80	105.90	118.40	159.40	98.75	173.40	217.50	183.20	108.80	34.40	23.00	16.70	
19	35.20	120.80	152.25	156.15	110.00	193.70	237.75	176.90	97.65	33.60	23.35	16.70	
20	32.40	146.00	161.35	147.20	125.00	215.25	251.25	174.80	88.30	32.80	22.40	16.70	
21	40.40	147.20	149.65	150.30	133.40	212.25	263.25	163.95	79.00	32.40	22.10	16.70	
22	43.20	126.20	136.40	184.60	128.00	209.25	272.25	152.90	75.50	31.60	21.50	16.40	
23	41.20	107.60	134.00	210.00	117.20	206.25	278.25	143.60	71.50	31.20	21.20	16.40	
24	41.20	95.45	129.20	204.75	112.40	207.75	280.50	132.20	68.50	30.80	20.60	16.40	
25	33.60	79.50	114.20	181.80	103.15	219.75	279.75	119.60	67.00	30.80	20.30	16.10	
26	29.30	65.00	97.10	160.05	93.25	215.25	278.25	108.80	63.50	30.40	20.00	15.50	
27	37.60	55.50	82.50	144.80	85.55	198.75	276.75	100.40	59.50	29.65	19.70	15.50	
28	47.35	49.60	74.50	146.00	87.75	182.50	275.25	89.95	55.50	28.95	19.40	15.50	
29	46.45	48.70	78.50	163.95	92.70	168.50	269.25	84.50	53.65	28.25		15.20	
30	43.20	55.50	91.05	204.75	108.20	163.30	261.75	79.50	51.40	27.90		16.40	
31		57.50		240.75	119.00		248.25		49.60	27.55		16.70	
TOTAL	903.55	2202.15	3136.15	4909.40	4735.70	5857.35	5978.30	4946.15	3045.60	1198.05	648.45	535.70	38096.51 CMSDAY
MEAN	30.12	71.04	104.54	158.37	152.76	195.24	192.85	164.87	98.25	38.65	23.16	17.28	104.37 CMS
MAX	47.35	147.20	161.35	240.75	273.00	229.50	280.50	234.75	189.50	54.10	26.85	19.70	280.50 CMS
MIN	17.90	26.85	56.00	99.30	85.55	128.60	107.00	79.50	49.60	27.55	19.40	15.20	15.20 CMS
RUNOFF	78.067	190.266	270.963	424.172	409.164	506.075	516.525	427.347	263.140	103.511	56.026	46.284	3291.538 MCM

MOMENTARY PEAK 280.50 CMS, AT 9.92 M (MSL), AT 12.00 HOURS, ON OCT 24, 1978

RUNOFF YIELD 20.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 53.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

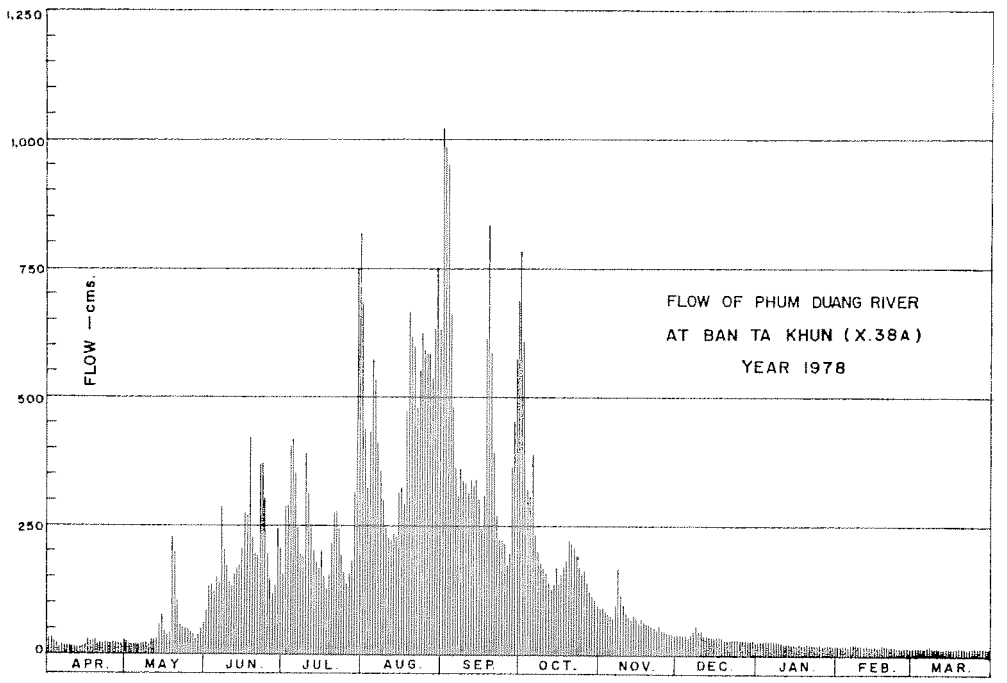
PHUM DUANG AT BAN TA KHUN, SURAT THANI (X.38A)

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	+3.51 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
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	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 135 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.77	4.68	5.79	6.50	10.44	12.69	11.33	5.71	4.94	4.62	4.42	4.32	
2	4.76	4.55	6.27	7.85	8.77	12.53	9.93	5.71	4.93	4.62	4.41	4.32	
3	4.55	4.53	6.30	7.89	8.14	12.31	8.57	5.63	4.91	4.62	4.41	4.31	
4	4.47	4.53	6.13	8.80	9.05	10.79	8.05	5.55	4.91	4.65	4.42	4.31	
5	4.45	4.47	6.46	8.87	9.99	9.33	8.05	5.53	4.89	4.65	4.41	4.31	
6	4.49	4.47	6.27	8.20	9.63	8.30	8.61	5.49	5.01	4.67	4.40	4.31	
7	4.47	4.54	7.88	7.33	8.76	8.01	7.24	5.76	5.15	4.65	4.39	4.30	
8	4.41	4.53	7.09	6.97	8.37	8.47	7.02	6.69	5.21	4.61	4.39	4.34	
9	4.39	4.53	6.91	6.94	7.86	8.27	6.73	6.07	5.04	4.58	4.38	4.31	
10	4.35	4.53	6.36	8.65	7.39	8.23	6.66	5.79	4.95	4.57	4.38	4.31	
11	4.34	4.88	6.29	8.11	7.25	8.03	6.57	5.61	4.90	4.55	4.40	4.29	
12	4.33	4.75	6.50	7.48	7.27	8.29	6.35	5.50	4.87	4.55	4.39	4.29	
13	4.33	4.83	6.65	7.03	7.36	8.19	6.23	5.45	4.85	4.54	4.37	4.28	
14	4.45	5.33	6.79	6.79	7.29	8.29	6.37	5.55	4.81	4.54	4.37	4.28	
15	4.62	5.55	7.09	6.63	8.07	7.91	6.65	5.45	4.80	4.53	4.38	4.28	
16	4.69	5.05	7.74	7.06	8.15	7.45	6.33	5.39	4.79	4.52	4.37	4.29	
17	4.62	4.91	7.66	6.55	7.83	8.15	6.61	5.47	4.77	4.51	4.31	4.29	
18	4.69	4.99	9.01	6.23	9.47	11.43	6.70	5.37	4.75	4.49	4.41	4.33	
19	4.54	7.32	7.36	6.51	10.61	11.62	6.87	5.32	4.75	4.49	4.40	4.36	
20	4.52	6.94	6.97	7.23	10.29	9.70	7.23	5.29	4.73	4.48	4.37	4.35	
21	4.55	5.77	6.93	7.73	10.14	8.35	7.14	5.22	4.71	4.48	4.35	4.31	
22	4.53	5.25	8.52	7.76	9.35	7.67	7.07	5.17	4.71	4.47	4.35	4.29	
23	4.59	5.18	8.60	7.29	10.33	7.25	6.93	5.13	4.71	4.47	4.34	4.28	
24	4.51	5.08	7.65	6.83	10.99	7.21	6.66	5.25	4.72	4.46	4.33	4.28	
25	4.60	5.02	6.83	6.51	10.71	7.16	6.52	5.07	4.71	4.45	4.33	4.27	
26	4.55	4.94	6.37	6.31	10.64	6.71	6.72	5.04	4.68	4.45	4.32	4.27	
27	4.53	4.85	6.13	6.57	10.57	7.03	6.33	5.01	4.67	4.44	4.32	4.26	
28	4.53	4.79	6.34	6.97	10.33	8.81	6.16	4.99	4.65	4.44	4.32	4.26	
29	4.51	4.97	7.44	8.29	11.46	9.51	6.01	4.97	4.65	4.43		4.26	
30	4.67	5.19	7.03	11.11	11.63	10.61	5.95	4.95	4.64	4.43		4.31	
31		5.31		11.89	10.93		5.79		4.63	4.42		4.31	
MEAN	4.53	5.04	6.98	7.58	9.32	8.94	7.08	5.44	4.82	4.53	4.37	4.30	
MAX	4.77	7.32	9.01	11.89	11.63	12.69	11.33	6.69	5.21	4.67	4.42	4.36	12.69
MIN	4.33	4.47	5.79	6.23	7.25	6.71	5.79	4.95	4.63	4.42	4.31	4.26	4.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 14.00 M (MSL), AT 7:00 HOURS, ON SEP 2, 1978
ZERO GAGE AT BOTTOM ELEVATION 3.50 M (MSL), RIVER BED 2.90 M (MSL)
LEFT BANK ELEVATION 19.74 M (MSL)
RIGHT BANK ELEVATION 22.07 M (MSL), DRAINAGE AREA 2706 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	30.8	27.2	94.2	154.0	570.4	1021.2	785.1	87.8	39.0	24.8	16.8	12.8	
2	30.4	22.0	133.3	290.5	403.8	992.4	562.5	87.8	38.5	24.8	16.4	12.8	
3	22.0	21.2	136.0	294.9	323.8	952.8	377.4	82.1	37.5	24.8	16.4	12.4	
4	18.8	21.2	121.4	407.7	440.7	697.9	313.0	76.5	37.5	26.0	16.8	12.4	
5	18.0	18.8	150.4	417.0	571.5	477.6	313.0	75.1	36.5	26.0	16.4	12.4	
6	19.6	18.8	133.3	331.0	518.2	343.0	382.7	72.3	42.6	26.8	16.0	12.4	
7	18.8	21.6	293.8	233.3	402.5	308.2	224.0	91.8	51.0	26.0	15.6	12.0	
8	16.4	21.2	209.0	197.0	351.4	364.2	202.0	171.1	54.6	24.4	15.6	13.6	
9	15.6	21.2	191.0	194.0	291.6	339.4	174.7	116.6	44.4	23.2	15.2	12.4	
10	14.0	21.2	141.4	388.0	239.9	334.6	168.4	94.2	39.5	22.8	15.2	12.4	
11	13.6	36.0	135.1	320.2	225.0	310.6	160.3	80.7	37.0	22.0	16.0	11.6	
12	13.2	30.0	154.0	249.8	227.0	341.8	140.5	73.0	35.5	22.0	15.6	11.6	
13	13.2	33.5	167.5	203.0	236.6	329.8	129.7	69.5	34.5	21.6	14.8	11.2	
14	18.0	61.8	180.1	180.1	229.0	341.8	142.3	76.5	32.5	21.6	14.8	11.2	
15	24.8	76.5	209.0	165.7	315.4	297.1	167.5	69.5	32.0	21.2	15.2	11.2	
16	27.6	45.0	278.4	256.0	325.0	246.5	138.7	65.4	31.6	20.8	14.8	11.6	
17	24.8	37.5	269.6	158.5	288.3	325.0	163.9	70.9	30.8	20.4	12.4	11.6	
18	27.6	41.5	435.4	129.7	496.0	802.1	172.0	64.2	30.0	19.6	16.4	13.2	
19	21.6	232.2	236.6	154.0	669.0	834.4	187.3	61.2	30.0	19.6	16.0	14.4	
20	20.8	194.0	197.0	223.0	617.5	528.0	223.0	59.4	29.2	19.2	14.8	14.0	
21	22.0	92.6	193.0	277.3	594.0	349.0	214.0	55.2	28.4	19.2	14.0	12.4	
22	21.2	57.0	370.8	280.6	480.2	270.7	207.0	52.2	28.4	18.8	14.0	11.6	
23	23.6	52.8	381.4	229.0	564.5	225.0	193.0	49.8	28.4	18.8	13.6	11.2	
24	20.4	46.0	268.5	183.7	624.7	221.0	168.4	57.0	28.8	18.4	13.2	11.2	
25	24.0	43.2	193.7	154.9	591.1	216.0	155.8	46.2	28.4	18.0	13.2	10.8	
26	22.0	39.0	142.3	136.9	584.6	172.9	173.8	44.4	27.2	18.0	12.8	10.8	
27	21.2	34.5	121.4	160.3	578.9	203.0	138.7	42.6	26.8	17.6	12.8	10.4	
28	21.2	31.6	139.6	197.0	564.5	409.0	123.8	41.5	26.0	17.6	12.8	10.4	
29	20.4	40.5	245.4	341.8	702.0	501.4	111.8	40.5	26.0	17.2		10.4	
30	26.8	53.4	203.0	749.4	740.4	669.0	107.0	39.5	25.6	17.2		12.4	
31		50.6		817.0	616.9		94.2		25.2	16.8		12.4	
TOTAL	632.4	1554.4	6115.6	8426.2	14384.4	13425.4	6815.5	2114.5	1043.4	655.2	417.6	371.2	55955.7 CMSDAY
MEAN	21.1	50.1	203.9	271.8	464.0	447.5	219.9	70.5	33.7	21.1	14.9	12.0	153.3 CMS
MAX	30.8	232.2	435.4	817.0	740.4	1021.2	785.1	171.1	54.6	26.8	16.8	14.4	1021.2 CMS
MIN	13.2	18.8	94.2	129.7	225.9	172.9	94.2	39.5	25.2	16.8	12.4	10.4	10.4 CMS
RUNOFF	54.64	134.30	528.39	728.02	1242.81	1159.95	588.86	182.69	90.15	56.61	36.08	32.07	4834.57 MCM

MOMENTARY PEAK 1257.00 CMS, AT 14.00 M (MSL), AT 7.00 HOURS, ON SEP 2, 1978

RUNOFF YIELD 56.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 464.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

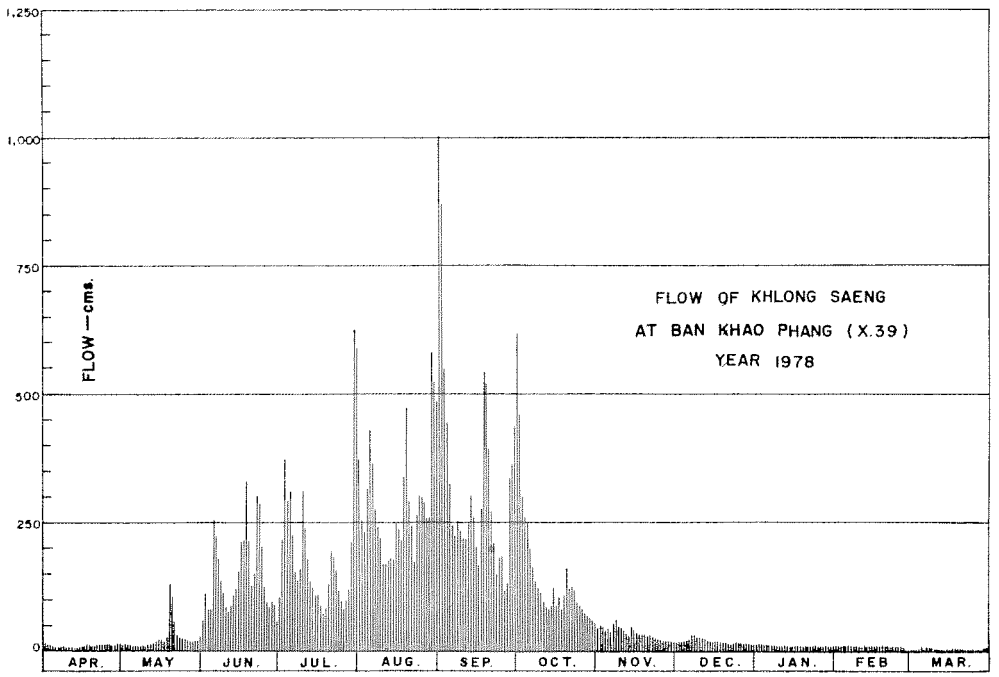
KHLONG SAENG AT BAN KHAO PHANG, SURAT THANI (X.39)

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.S.
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	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 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.38	9.37	10.39	11.32	13.31	17.35	15.23	10.11	9.56	9.37	9.26	9.19	
2	9.36	9.37	10.98	13.17	12.44	16.56	13.81	10.19	9.55	9.37	9.26	9.19	
3	9.28	9.35	10.59	13.44	12.24	14.78	12.74	10.05	9.55	9.37	9.25	9.19	
4	9.24	9.34	10.64	12.78	13.08	13.67	12.51	9.99	9.55	9.37	9.25	9.19	
5	9.22	9.27	11.03	12.93	13.90	12.73	12.40	10.03	9.55	9.36	9.25	9.19	
6	9.23	9.23	12.42	12.08	13.21	12.27	12.02	9.97	9.70	9.36	9.25	9.19	
7	9.23	9.28	11.72	11.49	12.65	12.16	11.58	10.20	9.81	9.36	9.24	9.18	
8	9.21	9.30	11.17	11.30	12.33	12.41	11.27	10.34	9.79	9.35	9.24	9.18	
9	9.22	9.28	11.03	11.55	12.05	12.22	11.06	10.15	9.61	9.34	9.24	9.18	
10	9.21	9.29	10.62	12.93	11.66	12.08	10.97	10.04	9.57	9.34	9.24	9.18	
11	9.21	9.35	10.54	12.19	11.65	12.14	10.87	9.98	9.55	9.33	9.23	9.18	
12	9.20	9.35	10.74	11.62	11.72	12.51	10.72	9.90	9.55	9.33	9.23	9.18	
13	9.19	9.32	10.96	11.24	11.76	12.87	10.62	9.88	9.52	9.33	9.23	9.18	
14	9.21	9.50	11.11	11.08	11.75	12.55	10.74	10.08	9.51	9.32	9.23	9.18	
15	9.32	9.66	11.55	10.92	12.40	12.11	11.10	9.89	9.49	9.32	9.23	9.18	
16	9.41	9.50	12.07	10.94	12.28	11.52	10.68	9.86	9.49	9.31	9.23	9.17	
17	9.41	9.46	12.09	10.69	12.08	12.60	10.95	9.85	9.47	9.30	9.24	9.17	
18	9.39	9.78	13.11	10.55	13.80	14.73	10.69	9.79	9.47	9.30	9.24	9.20	
19	9.28	11.23	11.69	10.71	14.23	14.53	11.09	9.80	9.47	9.30	9.24	9.20	
20	9.30	10.93	11.16	11.22	12.74	13.22	11.56	9.75	9.45	9.30	9.23	9.20	
21	9.33	10.04	11.47	11.88	12.27	12.41	11.13	9.73	9.44	9.30	9.22	9.19	
22	9.31	9.73	12.88	11.78	11.57	11.95	11.13	9.70	9.43	9.29	9.21	9.18	
23	9.28	9.63	12.72	11.39	12.77	11.42	11.02	9.67	9.44	9.29	9.21	9.17	
24	9.33	9.62	11.69	11.06	12.87	11.76	10.77	9.65	9.44	9.28	9.20	9.17	
25	9.39	9.60	11.10	10.83	12.83	11.77	10.71	9.63	9.43	9.28	9.19	9.16	
26	9.29	9.53	10.78	10.67	12.74	11.06	10.64	9.62	9.41	9.28	9.19	9.15	
27	9.27	9.47	10.69	10.93	12.49	11.34	10.46	9.60	9.40	9.28	9.19	9.15	
28	9.32	9.45	10.81	11.29	12.48	13.21	10.42	9.59	9.40	9.27	9.19	9.15	
29	9.38	9.56	10.71	12.51	14.99	13.47	10.32	9.58	9.39	9.27		9.16	
30	9.36	9.65	10.28	15.26	14.52	14.40	10.30	9.57	9.38	9.26		9.18	
31		9.82		14.99	14.28		10.16		9.38	9.26		9.19	
MEAN	9.29	9.59	11.29	11.83	12.74	12.93	11.28	9.87	9.51	9.32	9.23	9.18	
MAX	9.41	11.23	13.11	15.26	14.99	17.35	15.23	10.34	9.81	9.37	9.26	9.20	17.35
MIN	9.19	9.23	10.28	10.55	11.57	11.06	10.16	9.57	9.38	9.26	9.19	9.15	9.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 17.91 M (MSL), AT 20.00 HOURS, ON SEP 1, 1978
ZERO GAGE AT BOTTOM ELEVATION 8.55 M (MSL), RIVER BED 8.40 M (MSL)
LEFT BANK ELEVATION 22.63 M (MSL)
RIGHT BANK ELEVATION 18.35 M (MSL), DRAINAGE AREA 1437 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.20	12.80	66.30	141.80	358.20	1000.50	618.50	48.60	20.40	12.80	8.40	5.70	
2	12.40	12.80	111.40	341.40	257.40	841.40	420.30	53.40	20.00	12.80	8.40	5.70	
3	9.20	12.00	80.30	373.80	235.40	553.20	290.40	45.00	20.00	12.80	8.00	5.70	
4	7.60	11.60	84.20	294.80	330.60	402.10	265.10	41.50	20.00	12.80	8.00	5.70	
5	6.80	8.80	115.70	312.60	432.00	289.30	253.00	43.80	20.00	12.40	8.00	5.70	
6	7.20	7.20	255.20	217.80	346.20	238.70	211.20	40.50	27.00	12.40	8.00	5.70	
7	7.20	9.20	181.00	158.00	280.50	226.60	167.00	54.00	32.50	12.40	7.60	5.40	
8	6.40	10.00	128.30	140.00	245.30	254.10	137.30	62.80	31.50	12.00	7.60	5.40	
9	6.80	9.20	115.70	164.00	214.50	233.20	118.40	51.00	22.50	11.60	7.60	5.40	
10	6.40	9.60	82.60	312.60	175.00	217.80	110.60	44.40	20.80	11.60	7.60	5.40	
11	6.40	12.00	76.80	229.90	174.00	224.40	102.60	41.00	20.00	11.20	7.20	5.40	
12	6.00	12.00	92.20	171.00	181.00	265.10	90.60	37.00	20.00	11.20	7.20	5.40	
13	5.70	10.80	109.80	134.60	185.00	305.40	82.60	36.00	18.80	11.20	7.20	5.40	
14	6.40	18.00	122.90	120.20	184.00	269.50	92.20	46.80	18.40	10.80	7.20	5.40	
15	10.80	25.00	164.00	106.60	253.00	221.10	122.00	36.50	17.60	10.80	7.20	5.40	
16	14.40	18.00	216.70	108.20	239.80	161.00	87.40	35.00	17.60	10.40	7.20	5.10	
17	14.40	16.40	218.90	88.20	217.80	275.00	109.00	34.50	16.80	10.00	7.60	5.10	
18	13.60	31.00	334.20	77.50	419.00	546.20	88.20	31.50	16.80	10.00	7.60	6.00	
19	9.20	133.70	178.00	89.80	476.20	518.20	121.10	32.00	16.80	10.00	7.60	6.00	
20	10.00	107.40	127.40	132.80	290.40	347.40	165.00	29.50	16.00	10.00	7.20	6.00	
21	11.20	44.40	156.00	197.00	238.70	254.10	124.70	28.50	15.60	10.00	6.80	5.70	
22	10.40	28.50	306.60	187.00	166.00	204.00	124.70	27.00	15.20	9.60	6.40	5.40	
23	9.20	23.50	288.20	148.10	293.70	151.00	114.80	25.50	15.60	9.60	6.40	5.10	
24	11.20	23.00	178.00	118.40	305.40	185.00	94.60	24.50	15.60	9.20	6.00	5.10	
25	13.60	22.00	122.00	99.40	300.60	186.00	89.80	23.50	15.20	9.20	5.70	4.80	
26	9.60	19.20	95.40	86.60	290.40	118.40	84.20	23.00	14.40	9.20	5.70	4.50	
27	8.80	16.80	88.20	107.40	262.90	143.60	71.20	22.00	14.00	9.20	5.70	4.50	
28	10.80	16.00	97.80	139.10	261.80	346.20	68.40	21.60	14.00	8.80	5.70	4.50	
29	13.20	20.40	89.80	265.10	582.60	377.40	61.40	21.20	13.60	8.80		4.80	
30	12.40	24.50	58.80	623.00	516.80	500.00	60.00	20.80	13.20	8.40		5.40	
31		33.00		582.60	483.20		51.60		13.20	8.40		5.70	
TOTAL	290.50	758.80	4342.40	6269.29	9197.39	9855.89	4597.89	1082.40	573.10	329.60	200.80	166.50	37664.53 CMSDAY
MEAN	9.68	24.48	144.75	202.24	296.69	328.53	148.32	36.08	18.49	10.63	7.17	5.37	103.19 CMS
MAX	14.40	133.70	334.20	623.00	582.60	1000.50	618.50	62.80	32.50	12.80	8.40	6.00	1000.50 CMS
MIN	5.70	7.20	58.80	77.50	166.00	118.40	51.60	20.80	13.20	8.40	5.70	4.50	4.50 CMS
RUNOFF	25.099	65.560	375.183	541.667	794.655	851.549	397.258	93.519	49.516	28.477	17.349	14.386	3254.215 MCM

MOMENTARY PEAK 1122.20 CMS, AT 17.91 M (MSL), AT 20.00 HOURS, ON SEP 1, 1978

RUNOFF YIELD 71.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 780.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

KHLONG SOK AT BAN SONG PI NONG, SURAT THANI (X.51)

LOCATION — LAT. 8°-50'-39" N., LONG. 98°-44'-39" E., ON LEFT BANK AT BAN SONG PI NONG, AMPHOE PHANOM, SURAT THANI.

DRAINAGE AREA — 431 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — B.M.1 ON LEFT BANK NEAR THE STAFF GAGE, B.M.2 ON LEFT BANK UNDER THE CEIBA TREE.

ELEVATION — B.M.1=+9.199 M.(A.D.), B.M.2=+9.516 M.(A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1972-1978

RATING OPERATION

PERIOD OF RATING — 1972-1977

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972-1977

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 9 DISCHARGE MEASUREMENTS MADE IN 1976.

REMARKS — ENDING RECORD ON DEC 1, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

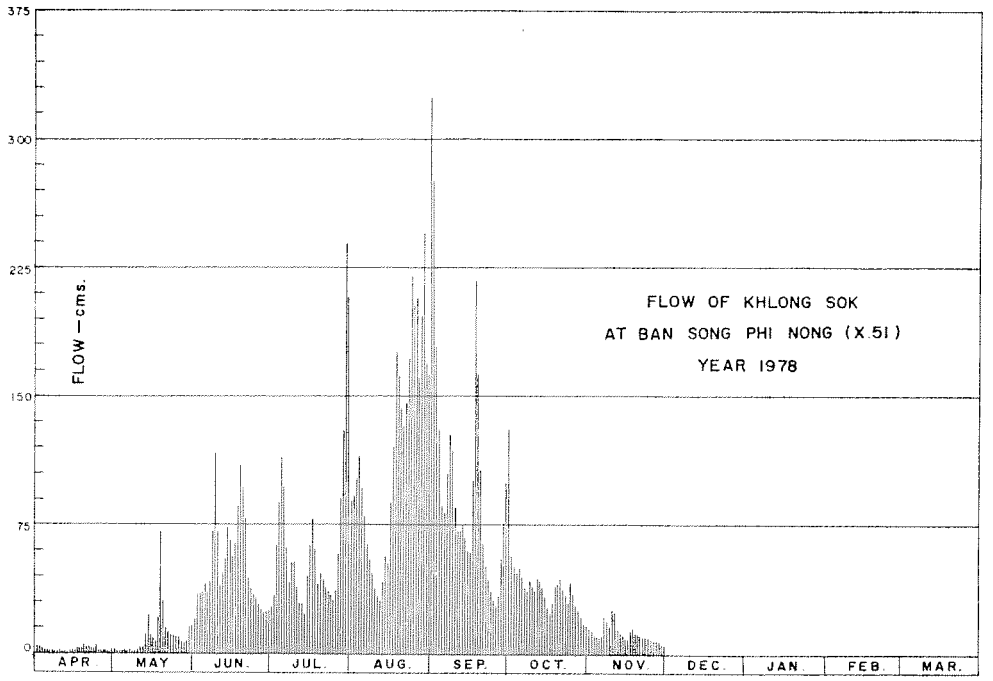
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.25	1.16	1.41	2.86	6.48	3.66	0.89	*******	*******	*******	*******	
2	0.31	0.22	1.56	1.64	2.93	5.09	2.21	0.82	*******	*******	*******	*******	
3	0.26	0.19	1.59	2.51	3.19	3.98	2.03	0.73	*******	*******	*******	*******	
4	0.20	0.14	1.67	3.10	3.38	3.44	1.93	0.63	*******	*******	*******	*******	
5	0.15	0.17	1.77	3.35	3.00	2.77	1.98	0.66	*******	*******	*******	*******	
6	0.12	0.20	1.63	2.60	2.69	2.74	1.79	0.73	*******	*******	*******	*******	
7	0.10	0.16	1.75	2.16	2.34	3.34	1.70	1.17	*******	*******	*******	*******	
8	0.09	0.17	2.26	1.76	2.15	3.64	1.63	1.08	*******	*******	*******	*******	
9	0.08	0.16	3.41	1.70	1.84	3.37	1.83	1.03	*******	*******	*******	*******	
10	0.06	0.16	2.31	1.72	1.67	2.82	1.73	1.31	*******	*******	*******	*******	
11	0.05	0.23	1.75	1.49	1.55	2.50	1.63	1.21	*******	*******	*******	*******	
12	0.05	0.41	1.93	1.43	1.47	2.53	1.87	0.89	*******	*******	*******	*******	
13	0.05	0.81	2.23	1.45	1.80	2.57	1.76	0.86	*******	*******	*******	*******	
14	0.17	1.17	2.57	1.23	2.19	2.42	1.66	0.76	*******	*******	*******	*******	
15	0.23	0.71	2.36	1.97	2.10	2.25	1.50	0.72	*******	*******	*******	*******	
16	0.25	0.58	2.15	2.40	2.51	2.22	1.32	0.65	*******	*******	*******	*******	
17	0.26	0.55	2.36	2.65	3.37	2.87	1.24	0.89	*******	*******	*******	*******	
18	0.32	1.20	2.80	2.10	4.41	4.98	1.53	0.95	*******	*******	*******	*******	
19	0.45	2.49	3.27	1.77	4.24	3.79	1.74	0.80	*******	*******	*******	*******	
20	0.35	1.33	2.91	1.92	3.85	2.79	1.76	0.78	*******	*******	*******	*******	
21	0.46	0.90	2.38	1.83	3.71	2.22	1.86	0.75	*******	*******	*******	*******	
22	0.33	0.79	1.81	1.73	3.97	1.94	1.61	0.73	*******	*******	*******	*******	
23	0.30	0.69	1.70	1.64	4.42	1.77	1.56	0.71	*******	*******	*******	*******	
24	0.44	0.69	1.62	1.56	5.04	1.58	1.43	0.67	*******	*******	*******	*******	
25	0.21	0.65	1.52	1.51	4.79	1.47	1.76	0.60	*******	*******	*******	*******	
26	0.33	0.56	1.43	1.68	4.86	1.41	1.45	0.55	*******	*******	*******	*******	
27	0.24	0.48	1.32	2.29	4.18	1.84	1.32	0.53	*******	*******	*******	*******	
28	0.16	0.49	1.27	2.91	4.87	2.31	1.23	0.49	*******	*******	*******	*******	
29	0.21	0.78	1.27	3.85	5.38	2.84	1.11	0.47	*******	*******		*******	
30	0.28	0.99	1.32	5.32	4.32	3.32	1.03	0.46	*******	*******		*******	
31		1.03		4.05	4.20		0.94		*******	*******		*******	
MEAN	0.23	0.62	1.97	2.22	3.33	2.91	1.67	0.78	*******	*******	*******	*******	
MAX	0.46	2.49	3.41	5.32	5.38	6.48	3.66	1.31	*******	*******	*******	*******	6.48
MIN	0.05	0.14	1.16	1.23	1.47	1.41	0.94	0.46	*******	*******	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.39 M (A.D), AT 18.00 HOURS, ON SEP 1, 1978

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

LEFT BANK ELEVATION — 10.04 M.(A.D)

RIGHT BANK ELEVATION — 9.21 M (A.D), DRAINAGE AREA — 431 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.55	2.00	21.15	28.35	89.50	325.40	130.60	13.80	*******	*******	*******	*******	
2	2.65	1.70	33.60	36.40	93.00	224.30	58.45	12.40	*******	*******	*******	*******	
3	2.10	1.43	34.65	72.00	106.00	149.80	50.70	10.60	*******	*******	*******	*******	
4	1.50	1.08	37.45	101.50	115.50	118.50	46.70	8.60	*******	*******	*******	*******	
5	1.15	1.29	40.95	114.00	96.50	85.00	48.70	9.20	*******	*******	*******	*******	
6	0.94	1.50	36.05	76.50	81.00	83.50	41.65	10.60	*******	*******	*******	*******	
7	0.80	1.22	40.25	56.20	64.30	113.50	38.50	21.42	*******	*******	*******	*******	
8	0.74	1.29	60.70	40.60	55.75	129.40	36.05	18.95	*******	*******	*******	*******	
9	0.68	1.22	117.00	38.50	43.40	115.00	43.05	17.57	*******	*******	*******	*******	
10	0.56	1.22	62.95	39.20	37.45	87.50	39.55	25.30	*******	*******	*******	*******	
11	0.50	1.80	40.25	31.15	33.25	71.50	36.05	22.52	*******	*******	*******	*******	
12	0.50	4.20	46.70	29.05	30.45	73.00	44.45	13.80	*******	*******	*******	*******	
13	0.50	12.20	59.35	29.75	42.00	75.00	40.60	13.20	*******	*******	*******	*******	
14	1.29	21.42	75.00	23.07	57.55	67.90	37.10	11.20	*******	*******	*******	*******	
15	1.80	10.20	65.20	48.30	53.50	60.25	31.50	10.40	*******	*******	*******	*******	
16	2.00	7.60	55.75	67.00	72.00	58.90	25.60	9.00	*******	*******	*******	*******	
17	2.10	7.00	65.20	79.00	115.00	90.00	23.35	13.80	*******	*******	*******	*******	
18	2.80	22.25	86.50	53.50	176.70	216.60	32.55	15.37	*******	*******	*******	*******	
19	5.00	71.05	110.00	40.95	165.40	138.40	39.90	12.00	*******	*******	*******	*******	
20	3.25	25.90	92.00	46.30	142.00	86.00	40.60	11.60	*******	*******	*******	*******	
21	5.20	14.00	66.10	43.05	133.60	58.90	44.10	11.00	*******	*******	*******	*******	
22	2.95	11.80	42.35	39.55	149.20	47.10	35.35	10.60	*******	*******	*******	*******	
23	2.50	9.80	38.50	36.40	177.40	40.95	33.60	10.20	*******	*******	*******	*******	
24	4.80	9.80	35.70	33.60	220.80	34.30	29.05	9.40	*******	*******	*******	*******	
25	1.60	9.00	32.20	31.85	203.30	30.45	40.60	8.00	*******	*******	*******	*******	
26	2.95	7.20	29.05	37.80	208.20	28.35	29.75	7.00	*******	*******	*******	*******	
27	1.90	5.60	25.60	62.05	161.80	43.40	25.60	6.60	*******	*******	*******	*******	
28	1.22	5.80	24.17	92.00	208.90	62.95	23.07	5.80	*******	*******	*******	*******	
29	1.60	11.60	24.17	142.00	244.60	88.50	19.77	5.40	*******	*******		*******	
30	2.30	16.47	25.60	240.40	170.40	112.50	17.57	5.20	*******	*******		*******	
31		17.57		154.00	163.00		15.10		*******	*******		*******	
TOTAL	61.43	316.21	1524.14	1964.02	3711.45	2916.85	1199.21	360.53	*******	*******	*******	*******	******** CMSDAY
MEAN	2.05	10.20	50.80	63.36	119.72	97.23	38.68	12.02	*******	*******	*******	*******	******* CMS
MAX	5.20	71.05	117.00	240.40	244.60	325.40	130.60	25.30	*******	*******	*******	*******	325.40 CMS
MIN	0.50	1.08	21.15	23.07	30.45	28.35	15.10	5.20	*******	*******	*******	*******	******* CMS
RUNOFF	5.308	27.321	131.686	169.691	320.669	252.016	103.612	31.150	*******	*******	*******	*******	******** MCM

MOMENTARY PEAK 318.20 CMS, AT 6.39 M (A.D), AT 18.00 HOURS, ON SEP 1, 1978

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 738.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 13 DISCHARGE MEASUREMENTS MADE IN 1975.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

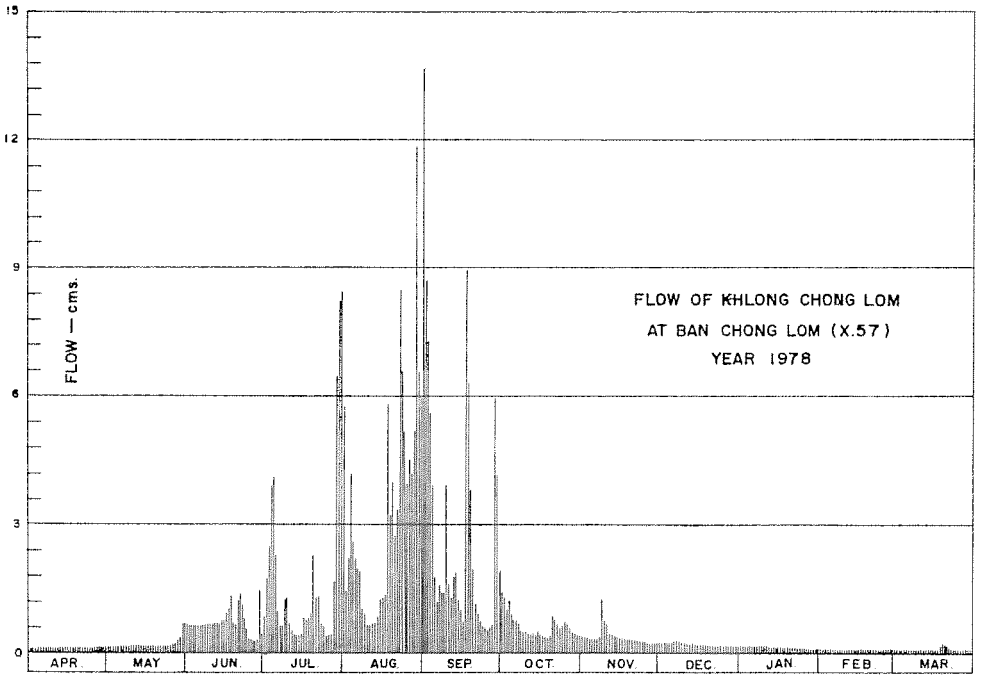
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	0.35	0.83	0.84	2.92	4.38	1.27	0.62	0.49	0.37	0.31	0.29	
2	0.29	0.35	0.83	1.38	1.26	3.42	1.15	0.61	0.50	0.37	0.31	0.29	
3	0.29	0.35	0.83	1.68	1.67	2.67	1.04	0.59	0.50	0.37	0.31	0.29	
4	0.31	0.35	0.83	2.20	2.28	2.19	1.12	0.58	0.48	0.37	0.31	0.29	
5	0.31	0.36	0.82	2.28	1.60	1.39	0.93	0.56	0.48	0.37	0.31	0.30	
6	0.31	0.36	0.82	1.10	1.48	1.11	0.87	0.56	0.53	0.39	0.31	0.30	
7	0.31	0.36	0.82	0.90	1.45	1.31	0.87	0.58	0.55	0.38	0.31	0.30	
8	0.32	0.36	0.81	0.78	1.06	1.22	0.75	1.18	0.54	0.38	0.31	0.30	
9	0.32	0.36	0.83	1.15	0.96	2.18	0.71	0.89	0.51	0.37	0.30	0.29	
10	0.32	0.36	0.83	1.16	0.81	1.45	0.69	0.84	0.48	0.37	0.30	0.29	
11	0.32	0.38	0.84	0.86	0.80	1.16	0.70	0.70	0.47	0.37	0.30	0.29	
12	0.32	0.38	0.85	0.69	0.87	1.39	0.66	0.64	0.46	0.35	0.30	0.29	
13	0.33	0.38	0.85	0.66	0.83	1.43	0.68	0.63	0.45	0.35	0.30	0.29	
14	0.33	0.38	0.87	0.65	0.94	1.21	0.64	0.62	0.44	0.35	0.30	0.29	
15	0.33	0.38	0.90	0.65	1.16	1.06	0.68	0.60	0.43	0.35	0.30	0.29	
16	0.33	0.40	0.98	0.68	1.18	0.88	0.64	0.59	0.43	0.35	0.30	0.29	
17	0.32	0.40	1.03	0.94	1.23	1.30	0.63	0.58	0.42	0.35	0.29	0.29	
18	0.32	0.40	1.20	0.85	2.73	3.48	0.59	0.56	0.42	0.35	0.29	0.29	
19	0.32	0.38	0.88	0.98	1.94	2.16	0.59	0.56	0.42	0.34	0.29	0.46	
20	0.32	0.38	0.81	1.60	2.22	1.49	0.82	0.55	0.41	0.34	0.29	0.43	
21	0.32	0.37	1.19	1.20	1.77	1.07	0.95	0.54	0.41	0.34	0.29	0.34	
22	0.33	0.37	1.23	1.18	2.01	0.96	0.86	0.53	0.40	0.34	0.29	0.29	
23	0.33	0.37	1.06	0.88	3.39	0.86	0.80	0.52	0.40	0.33	0.29	0.29	
24	0.31	0.40	0.74	0.80	2.54	0.79	0.76	0.50	0.40	0.33	0.29	0.29	
25	0.32	0.40	0.56	0.65	2.21	0.77	0.88	0.50	0.40	0.33	0.29	0.29	
26	0.33	0.41	0.54	0.64	2.37	0.72	0.87	0.49	0.40	0.33	0.29	0.29	
27	0.35	0.42	0.53	0.66	2.27	0.83	0.77	0.49	0.40	0.32	0.29	0.29	
28	0.35	0.50	0.53	1.36	2.56	1.32	0.71	0.49	0.38	0.32	0.29	0.29	
29	0.35	0.59	1.25	2.89	4.05	2.76	0.69	0.48	0.38	0.32		0.29	
30	0.35	0.82	0.52	3.28	2.91	2.18	0.66	0.48	0.37	0.32		0.29	
31		0.87		3.37	2.76		0.65		0.37	0.31		0.35	
MEAN	0.32	0.42	0.85	1.26	1.88	1.64	0.79	0.60	0.44	0.35	0.30	0.30	
MAX	0.35	0.87	1.25	3.37	4.05	4.38	1.27	1.18	0.55	0.39	0.31	0.46	4.38
MIN	0.29	0.35	0.52	0.64	0.80	0.72	0.59	0.48	0.37	0.31	0.29	0.29	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.40 M (A.D.), AT 12.00 HOURS, ON SEP 1, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.12	0.64	0.66	6.54	13.63	1.44	0.36	0.23	0.14	0.10	0.08	
2	0.08	0.12	0.64	1.69	1.42	8.64	1.20	0.35	0.24	0.14	0.10	0.08	
3	0.08	0.12	0.64	2.45	2.42	5.57	0.98	0.33	0.24	0.14	0.10	0.08	
4	0.10	0.12	0.64	3.92	4.18	3.89	1.14	0.32	0.22	0.14	0.10	0.08	
5	0.10	0.13	0.63	4.18	2.24	1.72	0.79	0.30	0.22	0.14	0.10	0.09	
6	0.10	0.13	0.63	1.10	1.93	1.12	0.70	0.30	0.27	0.15	0.10	0.09	
7	0.10	0.13	0.63	0.74	1.86	1.52	0.70	0.32	0.29	0.15	0.10	0.09	
8	0.10	0.13	0.61	0.57	1.02	1.34	0.53	1.26	0.28	0.15	0.10	0.09	
9	0.10	0.13	0.64	1.20	0.84	3.86	0.47	0.73	0.25	0.14	0.09	0.08	
10	0.10	0.13	0.64	1.22	0.61	1.86	0.45	0.66	0.22	0.14	0.09	0.08	
11	0.10	0.15	0.66	0.68	0.60	1.22	0.46	0.46	0.22	0.14	0.09	0.08	
12	0.10	0.15	0.67	0.45	0.70	1.72	0.41	0.39	0.21	0.12	0.09	0.08	
13	0.11	0.15	0.67	0.41	0.64	1.81	0.44	0.38	0.20	0.12	0.09	0.08	
14	0.11	0.15	0.70	0.40	0.80	1.32	0.39	0.36	0.19	0.12	0.09	0.08	
15	0.11	0.15	0.74	0.40	1.22	1.02	0.44	0.34	0.18	0.12	0.09	0.08	
16	0.11	0.16	0.87	0.44	1.26	0.71	0.39	0.33	0.18	0.12	0.09	0.08	
17	0.10	0.16	0.96	0.80	1.36	1.50	0.38	0.32	0.18	0.12	0.08	0.08	
18	0.10	0.16	1.30	0.67	5.79	8.92	0.33	0.30	0.18	0.12	0.08	0.08	
19	0.10	0.15	0.71	0.87	3.15	3.80	0.33	0.30	0.18	0.12	0.08	0.21	
20	0.10	0.15	0.61	2.24	3.98	1.96	0.63	0.29	0.17	0.12	0.08	0.18	
21	0.10	0.14	1.28	1.30	2.68	1.04	0.82	0.28	0.17	0.12	0.08	0.12	
22	0.11	0.14	1.36	1.26	3.35	0.84	0.68	0.27	0.16	0.12	0.08	0.08	
23	0.11	0.14	1.02	0.71	8.50	0.68	0.60	0.26	0.16	0.11	0.08	0.08	
24	0.10	0.16	0.52	0.60	5.10	0.59	0.54	0.24	0.16	0.11	0.08	0.08	
25	0.10	0.16	0.30	0.40	3.95	0.56	0.71	0.24	0.16	0.11	0.08	0.08	
26	0.11	0.17	0.28	0.39	4.49	0.49	0.70	0.23	0.16	0.11	0.08	0.08	
27	0.12	0.18	0.27	0.41	4.14	0.64	0.56	0.23	0.16	0.10	0.08	0.08	
28	0.12	0.24	0.27	1.64	5.18	1.55	0.47	0.23	0.15	0.10	0.08	0.08	
29	0.12	0.33	1.40	6.42	11.81	5.91	0.45	0.22	0.15	0.10		0.08	
30	0.12	0.63	0.26	8.01	6.50	3.86	0.41	0.22	0.14	0.10		0.08	
31		0.70		8.41	5.91		0.40		0.14	0.10		0.12	
TOTAL	3.09	5.78	21.19	54.64	104.17	83.29	18.94	10.82	6.06	3.83	2.48	2.83	317.12 CMSDAY
MEAN	0.10	0.19	0.71	1.76	3.36	2.78	0.61	0.36	0.20	0.12	0.09	0.09	0.87 CMS
MAX	0.12	0.70	1.40	8.41	11.81	13.63	1.44	1.26	0.29	0.15	0.10	0.21	13.63 CMS
MIN	0.08	0.12	0.26	0.39	0.60	0.49	0.33	0.22	0.14	0.10	0.08	0.08	0.08 CMS
RUNOFF	0.267	0.499	1.831	4.721	9.000	7.196	1.636	0.935	0.524	0.331	0.214	0.245	27.399 MCM

MOMENTARY PEAK 13.74 CMS, AT 4.40 M (A.D), AT 12.00 HOURS, ON SEP 1, 1978

RUNOFF YIELD 108.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1717.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

LOCATION — B.M.1 ON RIGHT BANK UNDER TACK FRUIT TREE, B.M.2 ON RIGHT BANK UNDER ROSS 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 — FAIRLY 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 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

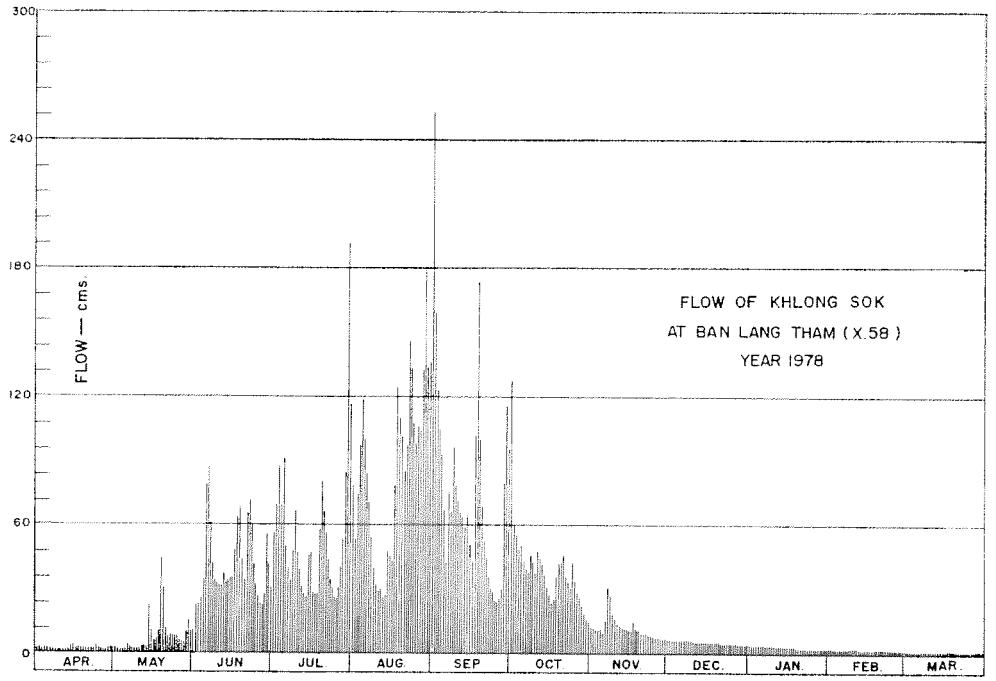
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.36	1.22	1.46	2.62	5.84	3.66	0.88	0.64	0.47	0.35	0.27	
2	0.37	0.31	1.21	2.43	2.08	4.26	2.21	0.85	0.63	0.46	0.35	0.26	
3	0.31	0.30	1.30	2.81	2.54	3.56	2.03	0.83	0.61	0.46	0.35	0.26	
4	0.36	0.27	1.54	2.42	3.40	3.14	1.93	0.83	0.62	0.49	0.35	0.25	
5	0.36	0.34	2.62	2.90	3.40	2.36	1.98	0.82	0.61	0.46	0.34	0.25	
6	0.31	0.37	2.80	2.07	2.76	1.76	1.79	0.81	0.64	0.50	0.34	0.25	
7	0.29	0.32	2.23	1.67	2.46	2.56	1.70	1.08	0.65	0.46	0.33	0.25	
8	0.25	0.32	1.74	1.54	2.06	2.34	1.63	1.44	0.65	0.45	0.33	0.25	
9	0.24	0.32	1.54	1.90	1.68	2.99	1.83	1.10	0.62	0.44	0.33	0.25	
10	0.22	0.42	1.47	2.34	1.49	2.60	1.73	0.99	0.62	0.44	0.40	0.25	
11	0.22	0.50	1.47	1.86	1.42	2.37	1.63	0.97	0.59	0.43	0.37	0.25	
12	0.22	0.40	1.64	1.56	1.45	2.28	1.67	0.89	0.58	0.43	0.34	0.25	
13	0.25	0.44	1.52	1.39	1.30	2.17	1.76	0.85	0.57	0.43	0.33	0.24	
14	0.45	1.18	1.57	1.32	1.36	2.32	1.66	0.84	0.56	0.43	0.32	0.24	
15	0.53	0.81	1.73	1.87	1.88	1.99	1.50	0.83	0.56	0.42	0.32	0.23	
16	0.35	0.60	1.91	1.89	1.79	1.78	1.32	0.80	0.56	0.42	0.33	0.23	
17	0.43	0.68	2.29	1.39	2.63	3.14	1.24	0.96	0.56	0.41	0.36	0.28	
18	0.39	0.99	2.39	1.37	3.61	4.50	1.53	0.83	0.55	0.40	0.35	0.28	
19	0.40	1.77	1.78	2.05	3.30	3.09	1.74	0.83	0.54	0.39	0.34	0.24	
20	0.37	1.44	1.53	2.66	3.13	2.39	1.76	0.77	0.54	0.39	0.34	0.24	
21	0.31	0.84	2.34	2.33	2.78	1.95	1.86	0.77	0.53	0.38	0.33	0.24	
22	0.38	0.71	2.48	2.13	3.05	1.69	1.61	0.76	0.53	0.38	0.32	0.23	
23	0.30	0.75	2.21	1.75	4.00	1.50	1.56	0.74	0.52	0.38	0.29	0.23	
24	0.46	0.73	1.72	1.49	3.51	1.38	1.43	0.71	0.52	0.38	0.28	0.22	
25	0.33	0.72	1.40	1.34	3.07	1.27	1.76	0.70	0.52	0.37	0.28	0.22	
26	0.32	0.64	1.24	1.29	3.38	1.27	1.45	0.69	0.52	0.37	0.28	0.22	
27	0.29	0.59	1.22	1.71	3.31	1.44	1.32	0.68	0.51	0.37	0.27	0.22	
28	0.27	0.57	1.35	2.03	3.78	2.17	1.23	0.67	0.48	0.37	0.27	0.22	
29	0.44	0.84	2.09	2.78	4.63	3.42	1.11	0.66	0.48	0.36		0.28	
30	0.39	0.95	1.45	4.83	3.79	3.00	1.03	0.66	0.47	0.36		0.23	
31		0.79		3.45	3.85		0.94		0.46	0.36		0.22	
MEAN	0.34	0.65	1.77	2.07	2.76	2.55	1.67	0.84	0.56	0.41	0.33	0.24	
MAX	0.53	1.77	2.80	4.83	4.63	5.84	3.66	1.44	0.65	0.50	0.40	0.28	5.84
MIN	0.22	0.27	1.21	1.29	1.30	1.27	0.94	0.66	0.46	0.36	0.27	0.22	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.25 M (A.D), AT 5.00 HOURS, ON SEP 1, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.29 M (A.D)

LEFT BANK ELEVATION — 8.93 M (A.D)

RIGHT BANK ELEVATION — 8.99 M (A.D), DRAINAGE AREA 312 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	2.10	22.60	30.60	77.90	252.60	127.10	12.40	6.30	3.55	2.00	1.20	
2	2.20	1.60	22.30	69.35	54.30	159.30	59.45	11.50	6.10	3.40	2.00	1.10	
3	1.60	1.50	25.00	86.45	74.30	122.17	52.34	10.90	5.70	3.40	2.00	1.10	
4	2.10	1.20	33.40	68.90	114.29	101.47	48.42	10.90	5.90	3.85	2.00	1.00	
5	2.10	1.90	77.90	90.50	114.29	66.20	50.38	10.60	5.70	3.40	1.90	1.00	
6	1.60	2.20	86.00	53.91	84.20	41.77	42.94	10.30	6.30	4.00	1.90	1.00	
7	1.40	1.70	60.35	38.24	70.70	75.20	39.42	18.40	6.50	3.40	1.80	1.00	
8	1.00	1.70	40.98	33.40	53.52	65.30	36.67	29.90	6.50	3.25	1.80	1.00	
9	0.90	1.70	33.40	47.25	38.63	94.55	44.51	19.00	5.90	3.10	1.80	1.00	
10	0.70	2.80	30.95	65.30	31.65	77.00	40.59	15.70	5.90	3.10	2.50	1.00	
11	0.70	4.00	30.95	45.68	29.20	66.65	36.67	15.10	5.35	2.95	2.20	1.00	
12	0.70	2.50	37.07	34.10	30.25	62.60	46.07	12.70	5.20	2.95	1.90	1.00	
13	1.00	3.10	32.70	28.15	25.00	57.82	41.77	11.50	5.05	2.95	1.80	0.90	
14	3.25	21.40	34.45	25.70	27.10	64.40	37.85	11.20	4.90	2.95	1.70	0.90	
15	4.45	10.30	40.59	46.07	46.47	50.77	32.00	10.90	4.90	2.80	1.70	0.80	
16	2.00	5.50	47.64	46.86	42.94	42.55	25.70	10.00	4.90	2.80	1.90	0.80	
17	2.95	7.10	63.05	28.15	78.35	101.47	23.20	14.80	4.90	2.65	2.10	1.30	
18	2.40	15.70	67.55	27.45	124.64	172.50	33.05	10.90	4.75	2.50	2.00	1.30	
19	2.50	42.16	42.55	53.12	109.36	99.05	40.98	10.90	4.60	2.40	1.90	0.90	
20	2.20	29.90	33.05	79.70	100.98	67.55	41.77	9.25	4.60	2.40	1.90	0.90	
21	1.60	11.20	65.30	64.85	85.10	49.21	45.68	9.25	4.45	2.30	1.80	0.90	
22	2.30	7.75	71.60	56.26	97.25	39.02	35.89	9.00	4.45	2.30	1.70	0.80	
23	1.50	8.75	59.45	41.37	145.00	32.00	34.10	8.50	4.30	2.30	1.40	0.80	
24	3.40	8.25	40.20	31.65	119.71	27.80	29.55	7.75	4.30	2.30	1.30	0.70	
25	1.80	8.00	28.50	26.40	98.15	24.10	41.77	7.50	4.30	2.20	1.30	0.70	
26	1.70	6.30	23.20	24.70	113.30	24.10	30.25	7.30	4.30	2.20	1.30	0.70	
27	1.40	5.35	22.60	39.61	109.85	29.90	25.70	7.10	4.15	2.20	1.20	0.70	
28	1.20	5.05	26.75	52.34	133.01	57.82	22.90	6.90	3.70	2.20	1.20	0.70	
29	3.10	11.20	54.69	85.10	179.80	115.27	19.30	6.70	3.70	2.10		1.30	
30	2.40	14.50	30.25	191.80	133.51	95.00	16.90	6.70	3.55	2.10		0.80	
31		9.75		116.75	136.75		14.20		3.40	2.10		0.70	
TOTAL	57.65	256.16	1285.02	1729.91	2679.50	2335.14	1217.12	343.55	154.55	86.10	49.90	29.00	10223.58 CMSDAY
MEAN	1.92	8.26	42.83	55.80	86.44	77.84	39.26	11.45	4.99	2.78	1.78	0.94	28.01 CMS
MAX	4.45	42.16	86.00	191.80	179.80	252.60	127.10	29.90	6.50	4.00	2.50	1.30	252.60 CMS
MIN	0.70	1.20	22.30	24.70	25.00	24.10	14.20	6.70	3.40	2.10	1.20	0.70	0.70 CMS
RUNOFF	4.981	22.132	111.026	149.464	231.509	201.756	105.159	29.683	13.353	7.439	4.311	2.506	883.317 MCM

MOMENTARY PEAK 279.25 CMS, AT 6.25 M (A.D), AT 5.00 HOURS, ON SEP 1, 1978

RUNOFF YIELD 89.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 895.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

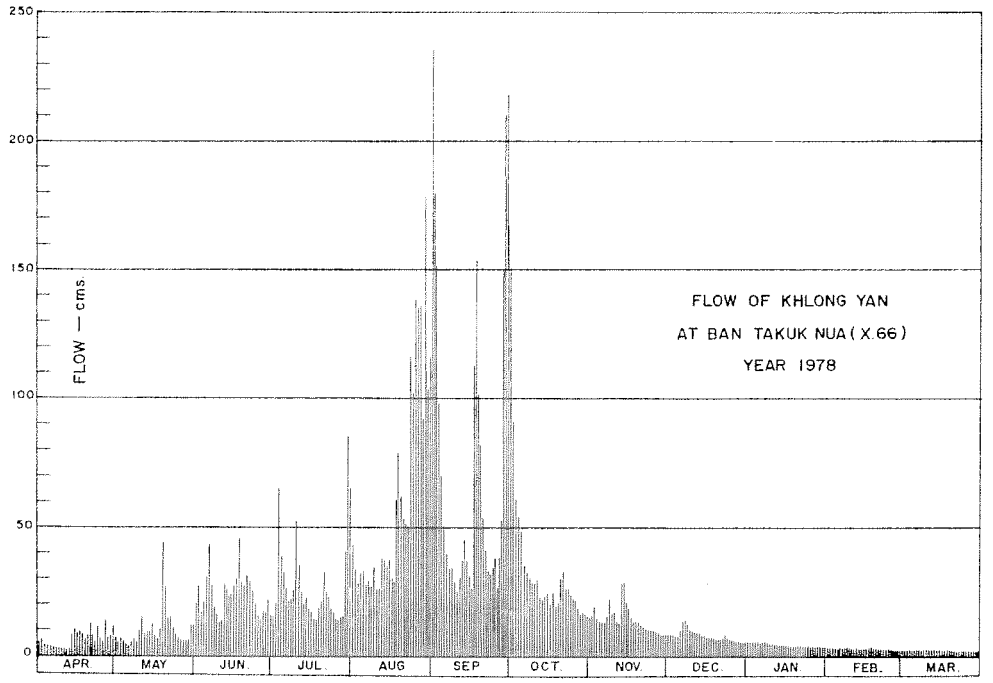
KHLONG YAN AT BAN TAKUK NUA, SURAT THANI (X.66)

LOCATION	LAT. 9°-18'-27" N., LONG. 98°-51'-52" E., ON LEFT BANK AT BAN TAKUK NUA, AMPHOE KHIRI RATTHANIKHOM, SURAT THANI.
DRAINAGE AREA	661 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+53.070 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+64.675 M.(M.S.L.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 165 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	53.69	53.76	54.18	54.05	54.69	56.63	55.95	54.06	53.84	53.72	53.60	53.53	
2	53.78	53.71	54.36	54.19	54.48	55.95	55.35	54.18	53.84	53.72	53.60	53.53	
3	53.65	53.77	54.12	55.01	54.37	55.43	54.95	54.05	53.84	53.73	53.60	53.53	
4	53.62	53.72	54.21	54.63	54.46	55.08	54.84	54.01	53.83	53.72	53.59	53.53	
5	53.62	53.65	54.42	54.45	54.48	54.80	54.72	54.02	53.81	53.72	53.59	53.53	
6	53.60	53.62	54.66	54.34	54.37	54.60	54.55	53.99	53.93	53.70	53.59	53.53	
7	53.57	53.71	54.35	54.22	54.42	54.51	54.46	54.06	54.03	53.73	53.58	53.52	
8	53.56	53.76	54.16	54.24	54.36	54.50	54.43	54.24	53.99	53.71	53.59	53.52	
9	53.56	53.70	54.09	54.33	54.50	54.39	54.39	54.09	53.93	53.69	53.59	53.52	
10	53.57	53.88	54.00	54.82	54.33	54.31	54.37	54.11	53.89	53.68	53.58	53.52	
11	53.56	54.06	54.01	54.51	54.34	54.43	54.40	54.01	53.87	53.67	53.57	53.51	
12	53.54	53.85	54.36	54.32	54.57	54.56	54.28	53.97	53.86	53.67	53.57	53.51	
13	53.55	53.88	54.34	54.21	54.56	54.70	54.23	54.38	53.86	53.66	53.57	53.51	
14	53.83	53.88	54.27	54.26	54.52	54.56	54.27	54.37	53.82	53.66	53.57	53.50	
15	53.89	53.97	54.31	54.14	54.57	54.44	54.30	54.19	53.82	53.65	53.57	53.50	
16	53.83	53.83	54.35	54.12	54.44	54.34	54.18	54.09	53.80	53.65	53.58	53.50	
17	53.86	53.77	54.40	54.04	54.40	55.59	54.30	54.03	53.79	53.64	53.58	53.50	
18	53.84	53.89	54.70	54.01	55.18	55.97	54.16	54.01	53.80	53.64	53.59	53.50	
19	53.75	54.67	54.38	54.17	54.98	55.24	54.20	54.02	53.79	53.64	53.57	53.50	
20	53.84	54.33	54.36	54.24	54.96	54.86	54.41	53.97	53.77	53.63	53.56	53.50	
21	53.97	54.04	54.44	54.46	54.81	54.63	54.47	53.95	53.76	53.63	53.56	53.49	
22	5 .78	54.05	54.39	54.30	54.80	54.48	54.34	53.93	53.80	53.63	53.55	53.49	
23	3.72	53.94	54.32	54.26	55.62	54.45	54.33	53.91	53.84	53.64	53.54	53.49	
24	.3.92	53.85	54.19	54.14	55.48	54.51	54.33	53.90	53.80	53.64	53.54	53.49	
25	53.78	53.80	54.10	54.09	55.84	54.57	54.25	53.89	53.78	53.63	53.54	53.49	
26	53.71	53.76	54.05	54.03	55.81	54.35	54.23	53.88	53.75	53.62	53.54	53.49	
27	54.01	53.73	54.13	54.06	55.82	54.83	54.15	53.86	53.74	53.62	53.54	53.48	
28	53.80	53.75	54.10	54.07	55.37	55.95	54.11	53.85	53.73	53.61	53.54	53.48	
29	53.83	53.74	54.22	54.62	56.18	56.43	54.12	53.84	53.73	53.61		53.48	
30	53.94	53.95	54.09	55.28	55.49	56.50	54.10	53.84	53.72	53.61		53.48	
31		53.94		55.02	55.62		54.05		53.72	53.60		53.48	
MEAN	53.74	53.87	54.27	54.34	54.90	54.99	54.43	54.02	53.82	53.66	53.57	53.50	
MAX	54.01	54.67	54.70	55.28	56.18	56.63	55.95	54.38	54.03	53.73	53.60	53.53	56.63
MIN	53.54	53.62	54.00	54.01	54.33	54.31	54.05	53.84	53.72	53.60	53.54	53.48	53.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 57.14 M (MSL), AT 14.00 HOURS, ON SEP 28, 1978
ZERO GAGE AT BOTTOM ELEVATION 53.07 M (MSL), RIVER BED 51.43 M (MSL)
LEFT BANK ELEVATION 64.08 M (MSL)
RIGHT BANK ELEVATION 60.62 M (MSL), DRAINAGE AREA 661 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.82	6.20	19.20	14.50	44.40	235.20	151.00	14.80	8.20	5.40	3.20	2.36	
2	6.60	5.20	27.00	19.60	33.00	151.00	91.00	19.20	8.20	5.40	3.20	2.36	
3	4.10	6.40	16.80	64.70	27.50	97.70	60.50	14.50	8.20	5.60	3.20	2.36	
4	3.56	5.40	20.40	40.80	32.00	69.60	53.40	13.30	7.90	5.40	3.08	2.36	
5	3.56	4.10	30.00	31.50	33.00	51.00	46.20	13.60	7.30	5.40	3.08	2.36	
6	3.20	3.56	42.60	26.00	27.50	39.00	36.50	12.70	10.90	5.00	3.08	2.36	
7	2.84	5.20	26.50	20.80	30.00	34.50	32.00	14.80	13.90	5.60	2.96	2.24	
8	2.72	6.20	18.40	21.60	27.00	34.00	30.50	21.60	12.70	5.20	3.08	2.24	
9	2.72	5.00	15.70	25.50	34.00	28.50	28.50	15.70	10.90	4.82	3.08	2.24	
10	2.84	9.40	13.00	52.20	25.50	24.50	27.50	16.40	9.70	4.64	2.96	2.24	
11	2.72	14.80	13.30	34.50	26.00	30.50	29.00	13.30	9.10	4.46	2.84	2.12	
12	2.48	8.50	27.00	25.00	37.50	37.00	23.20	12.10	8.80	4.46	2.84	2.12	
13	2.60	9.40	26.00	20.40	37.00	45.00	21.20	28.00	8.80	4.28	2.84	2.12	
14	7.90	9.40	22.80	22.40	35.00	37.00	22.80	27.50	7.50	4.28	2.84	2.00	
15	9.70	12.10	24.50	17.60	37.50	31.00	24.00	19.60	7.60	4.10	2.84	2.00	
16	7.90	7.90	26.50	16.80	31.00	26.00	19.20	15.70	7.00	4.10	2.96	2.00	
17	8.80	6.40	29.00	14.20	29.00	113.00	24.00	13.90	6.80	3.92	2.96	2.00	
18	8.20	9.70	45.00	13.30	77.40	153.40	18.40	13.30	7.00	3.92	3.08	2.00	
19	6.00	43.20	28.00	18.80	62.60	82.20	20.00	13.60	6.80	3.92	2.84	2.00	
20	8.20	25.50	27.00	21.60	61.20	54.60	29.50	12.10	6.40	3.74	2.72	2.00	
21	12.10	14.20	31.00	32.00	51.60	40.80	32.50	11.50	6.20	3.74	2.72	1.88	
22	6.60	14.50	28.50	24.00	51.00	33.00	26.00	10.90	7.00	3.74	2.60	1.88	
23	5.40	11.20	25.00	22.40	116.00	31.50	25.50	10.30	8.20	3.92	2.48	1.88	
24	10.60	8.50	19.60	17.60	102.20	34.50	25.50	10.00	7.00	3.92	2.48	1.88	
25	6.60	7.00	16.00	15.70	138.40	37.50	22.00	9.70	6.60	3.74	2.48	1.88	
26	5.20	6.20	14.50	13.90	135.10	26.50	21.20	9.40	6.00	3.56	2.48	1.88	
27	13.30	5.60	17.20	14.80	136.20	52.80	18.00	8.80	5.80	3.56	2.48	1.76	
28	7.00	6.00	16.00	15.10	92.60	151.00	16.40	8.50	5.60	3.38	2.48	1.76	
29	7.90	5.80	20.80	40.20	178.60	208.90	16.80	8.20	5.60	3.38		1.76	
30	11.20	11.50	15.70	85.40	103.10	218.00	16.00	8.20	5.40	3.38		1.76	
31		11.20		65.40	116.00		14.50		5.40	3.20		1.76	
TOTAL	187.36	305.26	703.00	868.30	1968.90	2209.20	1022.80	421.20	242.60	133.16	79.88	63.56	8205.21 CMSDAY
MEAN	6.25	9.85	23.43	28.01	63.51	73.64	32.99	14.04	7.83	4.30	2.85	2.05	22.48 CMS
MAX	13.30	43.20	45.00	85.40	178.60	235.20	151.00	28.00	13.90	5.60	3.20	2.36	235.20 CMS
MIN	2.48	3.56	13.00	13.30	25.50	24.50	14.50	8.20	5.40	3.20	2.48	1.76	1.76 CMS
RUNOFF	16.188	26.374	60.739	75.021	170.113	190.875	88.370	36.392	20.961	11.505	6.902	5.492	708.930 MCM

MOMENTARY PEAK 309.00 CMS, AT 57.14 M (MSL), AT 14.00 HOURS, ON SEP 28, 1978

RUNOFF YIELD 34.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 467.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

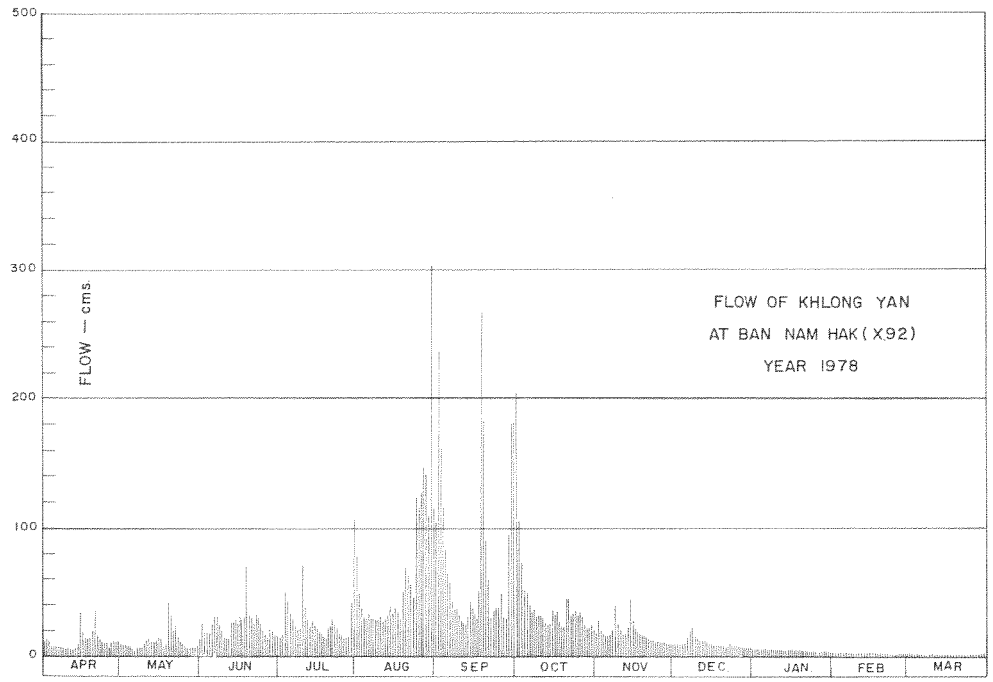
KHLONG YAN AT BAN NAM HAK, SURAT THANI (X.92)

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.-M.S.
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 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 193 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	0.97	1.35	1.15	1.81	3.80	3.53	1.23	0.98	0.87	0.77	0.71	
2	1.02	0.94	1.24	1.16	1.58	3.13	2.55	1.40	0.98	0.86	0.77	0.70	
3	0.89	0.98	1.25	1.82	1.44	2.64	2.11	1.24	0.98	0.88	0.76	0.70	
4	0.80	0.92	1.21	1.69	1.45	2.22	1.86	1.19	1.00	0.88	0.76	0.70	
5	0.83	0.85	1.35	1.54	1.50	1.90	1.80	1.17	0.98	0.87	0.76	0.70	
6	0.81	0.83	1.46	1.42	1.43	1.69	1.64	1.18	1.10	0.86	0.76	0.70	
7	0.79	0.91	1.48	1.33	1.44	1.58	1.54	1.27	1.23	0.86	0.76	0.40	
8	0.77	0.90	1.30	1.29	1.43	1.60	1.57	1.66	1.30	0.86	0.76	0.40	
9	0.76	0.91	1.23	1.28	1.50	1.47	1.44	1.40	1.20	0.85	0.76	0.70	
10	0.75	1.06	1.13	2.10	1.40	1.40	1.50	1.28	1.13	0.84	0.76	0.69	
11	0.74	1.12	1.08	1.60	1.40	1.36	1.45	1.23	1.08	0.84	0.75	0.69	
12	0.74	1.08	1.40	1.43	1.48	1.46	1.40	1.18	1.06	0.83	0.74	0.69	
13	0.73	1.02	1.38	1.33	1.63	1.69	1.36	1.32	1.08	0.83	0.74	0.68	
14	0.91	1.05	1.42	1.40	1.51	1.63	1.36	1.71	1.02	0.82	0.74	0.68	
15	1.45	1.14	1.37	1.33	1.62	1.52	1.56	1.48	1.00	0.82	0.73	0.68	
16	1.16	1.14	1.48	1.31	1.54	1.42	1.47	1.34	0.98	0.82	0.73	0.67	
17	1.02	0.96	1.41	1.24	1.43	1.99	1.54	1.24	0.96	0.81	0.73	0.67	
18	1.04	0.94	2.06	1.18	1.80	4.06	1.35	1.20	0.97	0.81	0.73	0.67	
19	0.99	1.67	1.53	1.12	2.05	2.36	1.30	1.19	0.96	0.81	0.74	0.67	
20	1.21	1.47	1.45	1.31	1.98	1.95	1.72	1.16	0.95	0.80	0.73	0.67	
21	1.48	1.26	1.37	1.35	1.89	1.42	1.71	1.13	0.93	0.80	0.72	0.67	
22	1.05	1.32	1.50	1.40	1.72	1.57	1.48	1.11	0.93	0.80	0.72	0.67	
23	0.99	1.13	1.44	1.33	2.77	1.61	1.53	1.08	0.99	0.80	0.72	0.67	
24	0.92	1.02	1.34	1.25	2.66	1.63	1.57	1.06	0.98	0.80	0.72	0.67	
25	1.00	0.98	1.22	1.19	2.80	1.77	1.50	1.04	0.95	0.80	0.72	0.67	
26	0.93	0.93	1.17	1.15	2.99	1.46	1.52	1.03	0.93	0.49	0.71	0.66	
27	1.01	0.90	1.12	1.13	2.90	1.44	1.39	1.01	0.91	0.78	0.71	0.66	
28	1.08	0.88	1.28	1.16	2.60	2.42	1.31	1.00	0.90	0.78	0.71	0.66	
29	1.07	0.91	1.23	1.65	4.34	3.32	1.30	0.99	0.89	0.78		0.66	
30	1.01	0.88	1.20	2.55	2.67	3.33	1.36	0.98	0.88	0.78		0.66	
31		1.05		2.19	2.56		1.25		0.88	0.77		0.66	
MEAN	0.96	1.04	1.35	1.43	1.98	2.03	1.61	1.22	1.00	0.81	0.74	0.66	
MAX	1.48	1.67	2.06	2.55	4.34	4.06	3.53	1.71	1.30	0.88	0.77	0.71	4.34
MIN	0.73	0.83	1.08	1.12	1.40	1.36	1.25	0.98	0.88	0.49	0.71	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.91 M (A.D.), AT 8.00 HOURS, ON AUG 29, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.54 M (A.D.)
LEFT BANK ELEVATION 11.49 M (A.D.)
RIGHT BANK ELEVATION 10.23 M (A.D.), DRAINAGE AREA 1001 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.80	9.10	24.50	15.00	49.70	235.00	203.30	18.50	9.40	6.10	3.40	2.20	
2	13.80	8.20	19.00	15.40	36.00	160.00	105.00	27.00	9.40	5.80	3.40	2.00	
3	9.75	9.40	19.50	50.40	29.00	112.60	70.70	19.00	9.40	6.40	3.20	2.00	
4	7.50	7.60	17.50	42.40	29.50	78.60	53.20	16.60	10.00	6.40	3.20	2.00	
5	8.25	5.50	24.50	34.00	32.00	56.00	49.00	15.80	9.40	6.10	3.20	2.00	
6	7.75	4.90	30.00	28.00	28.50	42.40	39.40	16.20	13.00	5.80	3.20	2.00	
7	7.25	7.30	31.00	23.50	29.00	36.00	34.00	20.50	18.50	5.80	3.20	0.00	
8	6.75	7.00	22.00	21.50	28.50	37.00	35.50	46.60	22.00	5.80	3.20	0.00	
9	6.50	7.30	18.50	21.00	32.00	30.50	29.00	27.00	17.00	5.50	3.20	2.00	
10	6.25	11.80	14.20	70.00	27.00	27.00	32.00	21.00	14.20	5.20	3.20	1.90	
11	6.00	13.80	12.40	37.00	27.00	25.00	29.50	18.50	12.40	5.20	3.00	1.90	
12	6.00	12.40	27.00	28.50	31.00	30.00	27.00	16.20	11.80	4.90	2.80	1.90	
13	5.75	10.60	26.00	23.50	38.80	42.40	25.00	23.00	12.40	4.90	2.80	1.80	
14	10.30	11.50	28.00	27.00	32.50	38.80	25.00	43.60	10.60	4.60	2.80	1.80	
15	32.50	14.60	25.50	23.50	38.20	33.00	35.00	31.00	10.00	4.60	2.60	1.80	
16	19.40	14.60	31.00	22.50	34.00	28.00	30.50	24.00	9.40	4.60	2.60	1.70	
17	13.80	8.80	27.50	19.00	28.50	62.30	34.00	19.00	8.80	4.30	2.60	1.70	
18	14.60	8.20	67.20	16.20	49.00	266.20	24.50	17.00	9.10	4.30	2.60	1.70	
19	12.70	41.20	33.50	13.80	66.50	89.80	22.00	16.60	8.80	4.30	2.80	1.70	
20	21.40	30.50	29.50	22.50	61.60	59.50	44.20	15.40	8.50	4.00	2.80	1.70	
21	34.00	20.00	25.50	24.50	55.30	28.00	43.60	14.20	7.90	4.00	2.40	1.70	
22	15.00	23.00	32.00	27.00	44.20	35.50	31.00	13.40	7.90	4.00	2.40	1.70	
23	12.70	14.20	29.00	23.50	124.30	37.60	33.50	12.40	9.70	4.00	2.40	1.70	
24	10.60	10.60	24.00	19.50	114.40	38.80	35.50	11.80	9.40	4.00	2.40	1.70	
25	10.00	9.40	18.00	16.60	127.00	47.20	32.00	11.20	8.50	4.00	2.40	1.70	
26	7.90	7.90	15.80	15.00	146.00	30.00	33.00	10.90	7.90	0.00	2.20	1.60	
27	10.30	7.00	13.80	14.20	137.00	29.00	26.50	10.30	7.30	3.60	2.20	1.60	
28	12.40	6.40	21.00	15.40	109.00	94.60	22.50	10.00	7.00	3.60	2.20	1.60	
29	12.10	7.30	18.50	40.00	302.60	180.20	22.00	9.70	6.70	3.60		1.60	
30	10.30	6.40	17.00	105.00	115.30	181.30	25.00	9.40	6.40	3.60		1.60	
31		11.50		76.30	105.80		19.50		6.40	3.40		1.60	
TOTAL	363.35	368.00	742.90	931.70	2109.20	2192.30	1271.90	559.80	319.20	142.40	78.20	51.90	9130.84 CMSDAY
MEAN	12.11	11.87	24.76	30.05	68.04	73.08	41.03	18.66	10.30	4.59	2.79	1.67	25.02 CMS
MAX	34.00	41.20	67.20	105.00	302.60	266.20	203.30	43.60	22.00	6.40	3.40	2.20	302.60 CMS
MIN	5.75	4.90	12.40	13.80	27.00	25.00	19.50	9.40	6.40	0.00	2.20	0.00	0.00 CMS
RUNOFF	31.393	31.795	64.187	80.499	182.235	189.415	109.892	48.367	27.579	12.303	6.756	4.484	788.904 MCM

MOMENTARY PEAK 382.50 CMS, AT 4.91 M (A.D), AT 8.30 HOURS, ON AUG 29, 1978

RUNOFF YIELD 24.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 382.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 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 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

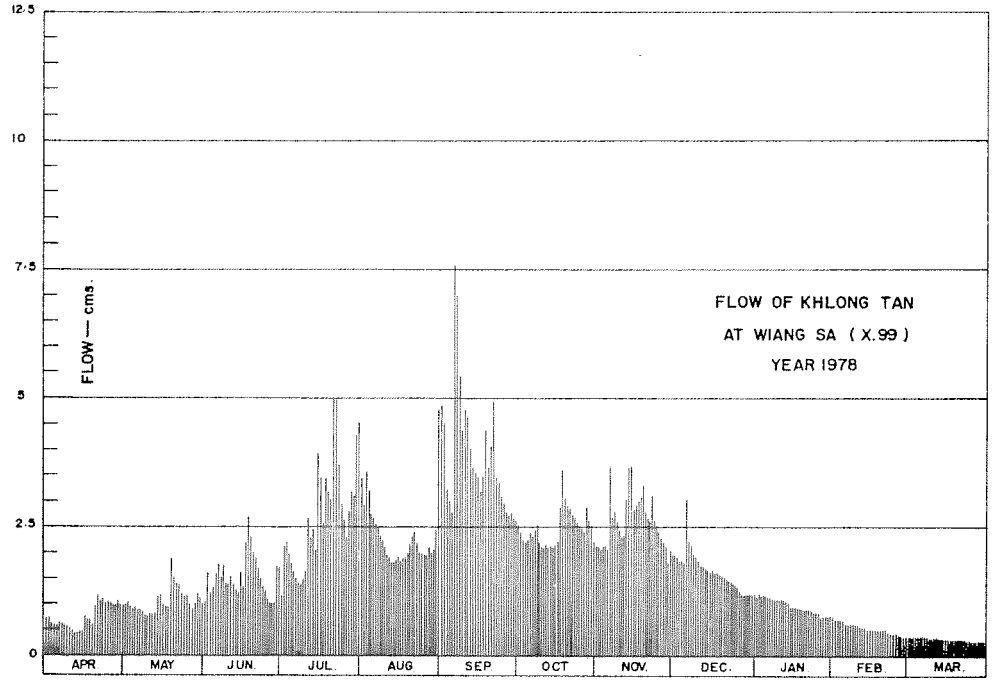
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.79	0.84	0.85	0.88	1.26	1.47	1.13	1.06	1.03	0.88	0.79	0.69	
2	0.79	0.85	0.96	1.07	1.21	1.43	1.10	1.06	1.02	0.87	0.78	0.69	
3	0.76	0.83	0.88	1.08	1.30	1.25	1.08	1.05	1.01	0.88	0.78	0.69	
4	0.75	0.83	0.90	1.03	1.24	1.22	1.08	1.07	1.01	0.87	0.78	0.69	
5	0.77	0.83	0.95	1.00	1.17	1.18	1.12	1.05	1.00	0.88	0.77	0.69	
6	0.76	0.82	0.99	0.95	1.16	1.77	1.10	1.31	1.22	0.87	0.76	0.69	
7	0.76	0.82	0.95	0.94	1.13	1.71	1.12	1.16	1.08	0.87	0.76	0.69	
8	0.75	0.81	0.98	0.92	1.12	1.54	1.14	1.18	1.06	0.86	0.76	0.69	
9	0.74	0.80	0.93	0.93	1.08	1.41	1.07	1.15	1.03	0.86	0.76	0.67	
10	0.73	0.80	0.92	0.96	1.06	1.46	1.06	1.12	1.01	0.86	0.75	0.68	
11	0.72	0.81	0.95	1.16	1.03	1.44	1.08	1.10	1.00	0.86	0.75	0.68	
12	0.71	0.81	0.92	1.10	1.02	1.36	1.06	1.11	0.99	0.86	0.74	0.68	
13	0.72	0.81	0.90	1.12	1.00	1.31	1.07	1.31	0.98	0.85	0.74	0.67	
14	0.72	0.87	0.89	1.05	1.01	1.29	1.06	1.31	0.97	0.85	0.73	0.67	
15	0.80	0.87	0.97	1.35	1.02	1.28	1.07	1.22	0.96	0.84	0.73	0.67	
16	0.78	0.84	0.91	1.28	1.01	1.24	1.08	1.19	0.97	0.83	0.73	0.67	
17	0.78	0.83	1.08	1.15	1.02	1.28	1.20	1.21	0.96	0.83	0.73	0.67	
18	0.75	0.83	1.16	1.28	1.02	1.41	1.18	1.23	0.96	0.83	0.73	0.67	
19	0.83	1.01	1.10	1.24	1.04	1.31	1.30	1.26	0.95	0.83	0.73	0.67	
20	0.88	0.95	1.04	1.22	1.09	1.37	1.22	1.19	0.95	0.82	0.73	0.67	
21	0.86	0.92	1.02	1.49	1.12	1.49	1.20	1.16	0.94	0.82	0.73	0.67	
22	0.85	0.91	0.97	1.49	1.10	1.35	1.19	1.15	0.93	0.82	0.72	0.66	
23	0.86	0.88	0.93	1.31	1.05	1.27	1.17	1.23	0.93	0.82	0.71	0.66	
24	0.84	0.87	0.91	1.22	1.03	1.24	1.15	1.15	0.92	0.81	0.71	0.66	
25	0.86	0.87	0.88	1.16	1.04	1.22	1.14	1.13	0.91	0.81	0.71	0.65	
26	0.84	0.84	0.85	1.10	1.03	1.18	1.13	1.10	0.90	0.81	0.70	0.65	
27	0.84	0.82	0.85	1.18	1.06	1.17	1.11	1.08	0.88	0.79	0.70	0.65	
28	0.86	0.84	0.85	1.24	1.04	1.18	1.20	1.06	0.88	0.79	0.69	0.65	
29	0.84	0.89	0.99	1.23	1.06	1.16	1.15	1.00	0.88	0.79		0.65	
30	0.84	0.86	0.98	1.40	1.12	1.15	1.13	1.04	0.88	0.79		0.65	
31		0.84		1.43	1.46		1.08		0.88	0.79		0.65	
MEAN	0.79	0.85	0.95	1.16	1.10	1.34	1.13	1.15	0.97	0.84	0.74	0.67	
MAX	0.88	1.01	1.16	1.49	1.46	1.77	1.30	1.31	1.22	0.88	0.79	0.69	1.77
MIN	0.71	0.80	0.85	0.88	1.00	1.15	1.06	1.00	0.88	0.79	0.69	0.65	0.65

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.25 M (A.D), AT 18.00 HOURS, ON AUG 31, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.13 M (A.D)

LEFT BANK ELEVATION — 4.93 M (A.D)

RIGHT BANK ELEVATION — 5.76 M (A.D), DRAINAGE AREA — 105 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	1.00	1.05	1.20	3.46	4.86	2.48	2.10	1.95	1.20	0.76	0.38	
2	0.76	1.05	1.60	2.15	2.97	4.54	2.30	2.10	1.90	1.15	0.72	0.38	
3	0.64	0.95	1.20	2.20	3.60	3.25	2.20	2.05	1.85	1.20	0.72	0.38	
4	0.60	0.95	1.30	1.95	3.18	3.04	2.20	2.15	1.85	1.15	0.72	0.38	
5	0.68	0.95	1.55	1.80	2.72	2.78	2.42	2.05	1.80	1.20	0.68	0.38	
6	0.64	0.90	1.75	1.55	2.66	7.53	2.30	3.67	3.04	1.15	0.64	0.38	
7	0.64	0.90	1.55	1.50	2.48	6.99	2.42	2.66	2.20	1.15	0.64	0.38	
8	0.60	0.85	1.70	1.40	2.42	5.46	2.54	2.78	2.10	1.10	0.64	0.38	
9	0.56	0.80	1.45	1.45	2.20	4.38	2.15	2.60	1.95	1.10	0.64	0.34	
10	0.52	0.80	1.40	1.60	2.10	4.78	2.10	2.42	1.85	1.10	0.60	0.36	
11	0.48	0.85	1.55	2.66	1.95	4.62	2.20	2.30	1.80	1.10	0.60	0.36	
12	0.44	0.85	1.40	2.30	1.90	4.02	2.10	2.36	1.75	1.10	0.56	0.36	
13	0.48	0.85	1.30	2.42	1.80	3.67	2.15	3.67	1.70	1.05	0.56	0.34	
14	0.48	1.15	1.25	2.05	1.85	3.53	2.10	3.67	1.65	1.05	0.52	0.34	
15	0.80	1.15	1.65	3.95	1.90	3.46	2.15	3.04	1.60	1.00	0.52	0.34	
16	0.72	1.00	1.35	3.46	1.85	3.18	2.20	2.84	1.65	0.95	0.52	0.34	
17	0.72	0.95	2.20	2.60	1.90	3.46	2.90	2.97	1.60	0.95	0.52	0.34	
18	0.60	0.95	2.66	3.46	1.90	4.38	2.78	3.11	1.60	0.95	0.52	0.34	
19	0.95	1.85	2.30	3.18	2.00	3.67	3.60	3.32	1.55	0.95	0.52	0.34	
20	1.20	1.55	2.00	3.04	2.25	4.09	3.04	2.84	1.55	0.90	0.52	0.34	
21	1.10	1.40	1.90	5.02	2.42	5.02	2.90	2.66	1.50	0.90	0.52	0.34	
22	1.05	1.35	1.65	5.02	2.30	3.95	2.84	2.60	1.45	0.90	0.48	0.32	
23	1.10	1.20	1.45	3.67	2.05	3.39	2.72	3.11	1.45	0.90	0.44	0.32	
24	1.00	1.15	1.35	3.04	1.95	3.18	2.60	2.60	1.40	0.85	0.44	0.32	
25	1.10	1.15	1.20	2.66	2.00	3.04	2.54	2.48	1.35	0.85	0.44	0.30	
26	1.00	1.00	1.05	2.30	1.95	2.78	2.48	2.30	1.30	0.85	0.40	0.30	
27	1.00	0.90	1.05	2.78	2.10	2.72	2.36	2.20	1.20	0.76	0.40	0.30	
28	1.10	1.00	1.05	3.18	2.00	2.78	2.90	2.10	1.20	0.76	0.38	0.30	
29	1.00	1.25	1.75	3.11	2.10	2.66	2.60	1.80	1.20	0.76		0.30	
30	1.00	1.10	1.70	4.30	2.42	2.60	2.48	2.00	1.20	0.76		0.30	
31		1.00		4.54	4.78		2.20		1.20	0.76		0.30	
TOTAL	23.72	32.80	46.36	85.54	73.16	117.81	76.95	78.55	51.39	30.55	15.62	10.58	643.03 CMSDAY
MEAN	0.79	1.06	1.55	2.76	2.36	3.93	2.48	2.62	1.66	0.99	0.56	0.34	1.76 CMS
MAX	1.20	1.85	2.66	5.02	4.78	7.53	3.60	3.67	3.04	1.20	0.76	0.38	7.53 CMS
MIN	0.44	0.80	1.05	1.20	1.80	2.60	2.10	1.80	1.20	0.76	0.38	0.30	0.30 CMS
RUNOFF	2.049	2.834	4.005	7.391	6.321	10.179	6.648	6.787	4.440	2.640	1.350	0.914	55.558 MCM

MOMENTARY PEAK 12.65 CMS, AT 2.25 M (A.D), AT 18.00 HOURS, ON AUG 31, 1978

RUNOFF YIELD 16.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 120.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 149 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — STREAM GAGING BEGAN ON MAY 14, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 197[illegible]

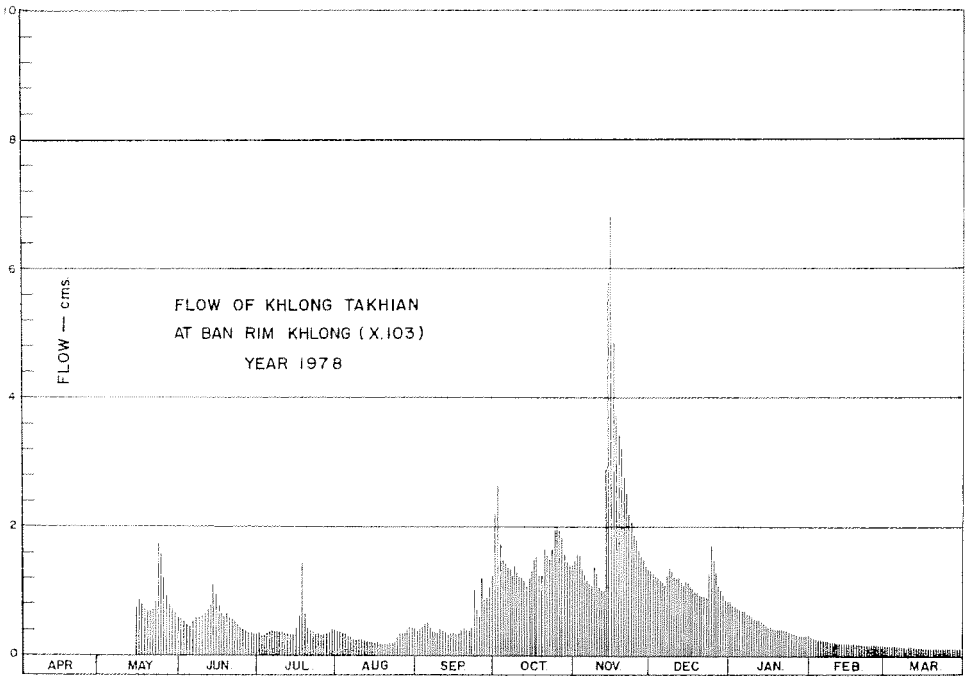
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.45	0.37	0.38	0.38	0.74	0.66	0.63	0.51	0.32	0.22	
2	*******	*******	0.44	0.35	0.37	0.39	0.85	0.69	0.62	0.50	0.32	0.22	
3	*******	*******	0.43	0.35	0.37	0.41	0.74	0.68	0.61	0.50	0.31	0.22	
4	*******	*******	0.42	0.37	0.36	0.43	0.68	0.64	0.61	0.49	0.31	0.22	
5	*******	*******	0.41	0.38	0.34	0.43	0.66	0.62	0.60	0.49	0.30	0.22	
6	*******	*******	0.45	0.40	0.34	0.40	0.65	0.60	0.59	0.48	0.29	0.21	
7	*******	*******	0.46	0.39	0.32	0.38	0.64	0.59	0.62	0.47	0.28	0.21	
8	*******	*******	0.46	0.39	0.32	0.37	0.62	0.58	0.64	0.46	0.28	0.20	
9	*******	*******	0.46	0.37	0.32	0.37	0.65	0.64	0.63	0.45	0.28	0.20	
10	*******	*******	0.47	0.37	0.32	0.40	0.62	0.60	0.61	0.44	0.27	0.20	
11	*******	*******	0.49	0.37	0.31	0.38	0.62	0.57	0.61	0.43	0.27	0.19	
12	*******	*******	0.51	0.36	0.31	0.38	0.61	0.56	0.60	0.43	0.26	0.19	
13	*******	*******	0.60	0.35	0.30	0.35	0.59	0.68	0.59	0.42	0.26	0.19	
14	*******	0.50	0.54	0.36	0.30	0.37	0.58	1.21	0.60	0.41	0.25	0.19	
15	*******	0.52	0.56	0.36	0.29	0.37	0.63	1.30	0.59	0.40	0.25	0.18	
16	*******	0.54	0.51	0.41	0.28	0.36	0.67	1.18	0.58	0.40	0.25	0.18	
17	*******	0.50	0.47	0.48	0.29	0.36	0.68	1.04	0.56	0.39	0.25	0.18	
18	*******	0.50	0.46	0.66	0.27	0.39	0.63	0.96	0.56	0.39	0.25	0.18	
19	*******	0.49	0.47	0.48	0.28	0.40	0.61	0.93	0.55	0.38	0.24	0.18	
20	*******	0.49	0.46	0.40	0.27	0.39	0.68	0.88	0.55	0.38	0.24	0.18	
21	*******	0.50	0.45	0.39	0.27	0.38	0.70	0.85	0.54	0.37	0.24	0.18	
22	*******	0.54	0.44	0.38	0.28	0.40	0.67	0.81	0.54	0.37	0.23	0.18	
23	*******	0.72	0.42	0.37	0.29	0.58	0.68	0.78	0.61	0.36	0.23	0.18	
24	*******	0.70	0.41	0.36	0.32	0.50	0.75	0.75	0.71	0.36	0.23	0.17	
25	*******	0.66	0.40	0.35	0.36	0.46	0.76	0.73	0.67	0.35	0.23	0.17	
26	*******	0.57	0.39	0.35	0.37	0.62	0.75	0.70	0.63	0.35	0.22	0.17	
27	*******	0.54	0.37	0.36	0.37	0.56	0.74	0.68	0.59	0.34	0.22	0.17	
28	*******	0.51	0.37	0.37	0.38	0.57	0.69	0.67	0.54	0.34	0.22	0.17	
29	*******	0.49	0.36	0.38	0.41	0.58	0.66	0.65	0.56	0.33		0.17	
30	*******	0.48	0.35	0.40	0.41	0.63	0.65	0.64	0.53	0.33		0.17	
31		0.46		0.39	0.40		0.65		0.53	0.33		0.17	
MEAN	*******	*******	0.45	0.39	0.33	0.43	0.67	0.76	0.59	0.41	0.26	0.19	
MAX	*******	0.72	0.60	0.66	0.41	0.63	0.85	1.30	0.71	0.51	0.32	0.22	1.30
MIN	*******	*******	0.35	0.35	0.27	0.35	0.58	0.56	0.53	0.33	0.22	0.17	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.31 M (A.D), AT 7.00 HOURS, ON NOV 15, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.13 M (A.D)

LEFT BANK ELEVATION 8.69 M (A.D)

RIGHT BANK ELEVATION 8.60 M (A.D), DRAINAGE AREA 180 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.55	0.34	0.36	0.36	1.84	1.40	1.25	0.74	0.24	0.12	
2	*******	*******	0.52	0.30	0.34	0.38	2.60	1.55	1.20	0.70	0.24	0.12	
3	*******	*******	0.49	0.30	0.34	0.43	1.84	1.50	1.15	0.70	0.22	0.12	
4	*******	*******	0.46	0.34	0.32	0.49	1.50	1.30	1.15	0.67	0.22	0.12	
5	*******	*******	0.43	0.36	0.28	0.49	1.40	1.20	1.10	0.67	0.20	0.12	
6	*******	*******	0.55	0.40	0.28	0.40	1.35	1.10	1.06	0.64	0.19	0.11	
7	*******	*******	0.58	0.38	0.24	0.36	1.30	1.06	1.20	0.61	0.18	0.11	
8	*******	*******	0.58	0.38	0.24	0.34	1.20	1.02	1.30	0.58	0.18	0.10	
9	*******	*******	0.58	0.34	0.24	0.34	1.35	1.30	1.25	0.55	0.18	0.10	
10	*******	*******	0.61	0.34	0.24	0.40	1.20	1.10	1.15	0.52	0.17	0.10	
11	*******	*******	0.67	0.34	0.22	0.36	1.20	0.98	1.15	0.49	0.17	0.09	
12	*******	*******	0.74	0.32	0.22	0.36	1.15	0.94	1.10	0.49	0.16	0.09	
13	*******	*******	1.10	0.30	0.20	0.30	1.06	1.50	1.06	0.46	0.16	0.09	
14	*******	0.70	0.86	0.32	0.20	0.34	1.02	5.81	1.10	0.43	0.15	0.09	
15	*******	0.78	0.94	0.32	0.19	0.34	1.25	6.80	1.06	0.40	0.15	0.08	
16	*******	0.86	0.74	0.43	0.18	0.32	1.45	5.50	1.02	0.40	0.15	0.08	
17	*******	0.70	0.61	0.64	0.19	0.32	1.50	4.16	0.94	0.38	0.15	0.08	
18	*******	0.70	0.58	1.40	0.17	0.38	1.25	3.48	0.94	0.38	0.15	0.08	
19	*******	0.67	0.61	0.64	0.18	0.40	1.15	3.24	0.90	0.36	0.14	0.08	
20	*******	0.67	0.58	0.40	0.17	0.38	1.50	2.84	0.90	0.36	0.14	0.08	
21	*******	0.70	0.55	0.38	0.17	0.36	1.60	2.60	0.86	0.34	0.14	0.08	
22	*******	0.86	0.52	0.36	0.18	0.40	1.45	2.28	0.86	0.34	0.13	0.08	
23	*******	1.72	0.46	0.34	0.19	1.02	1.50	2.08	1.15	0.32	0.13	0.08	
24	*******	1.60	0.43	0.32	0.24	0.70	1.90	1.90	1.66	0.32	0.13	0.07	
25	*******	1.40	0.40	0.30	0.32	0.58	1.96	1.78	1.45	0.30	0.13	0.07	
26	*******	0.98	0.38	0.30	0.34	1.20	1.90	1.60	1.25	0.30	0.12	0.07	
27	*******	0.86	0.34	0.32	0.34	0.94	1.84	1.50	1.06	0.28	0.12	0.07	
28	*******	0.74	0.34	0.34	0.36	0.98	1.55	1.45	0.86	0.28	0.12	0.07	
29	*******	0.67	0.32	0.36	0.43	1.02	1.40	1.35	0.94	0.26		0.07	
30	*******	0.64	0.30	0.40	0.43	1.25	1.35	1.30	0.82	0.26		0.07	
31		0.58		0.38	0.40		1.35		0.82	0.26		0.07	
TOTAL	*******	*******	16.82	12.39	8.20	15.94	45.91	65.62	33.71	13.79	4.56	2.76	******** CMSDAY
MEAN	*******	*******	0.56	0.40	0.26	0.53	1.48	2.19	1.09	0.44	0.16	0.09	******* CMS
MAX	*******	1.72	1.10	1.40	0.43	1.25	2.60	6.80	1.66	0.74	0.24	0.12	6.80 CMS
MIN	*******	*******	0.30	0.30	0.17	0.30	1.02	0.94	0.82	0.26	0.12	0.07	******* CMS
RUNOFF	*******	*******	1.453	1.070	0.708	1.377	3.967	5.670	2.913	1.191	0.394	0.238	******** MCM

MOMENTARY PEAK 6.92 CMS, AT 1.31 M (A.D), AT 7.00 HOURS, ON NOV 15, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 38.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

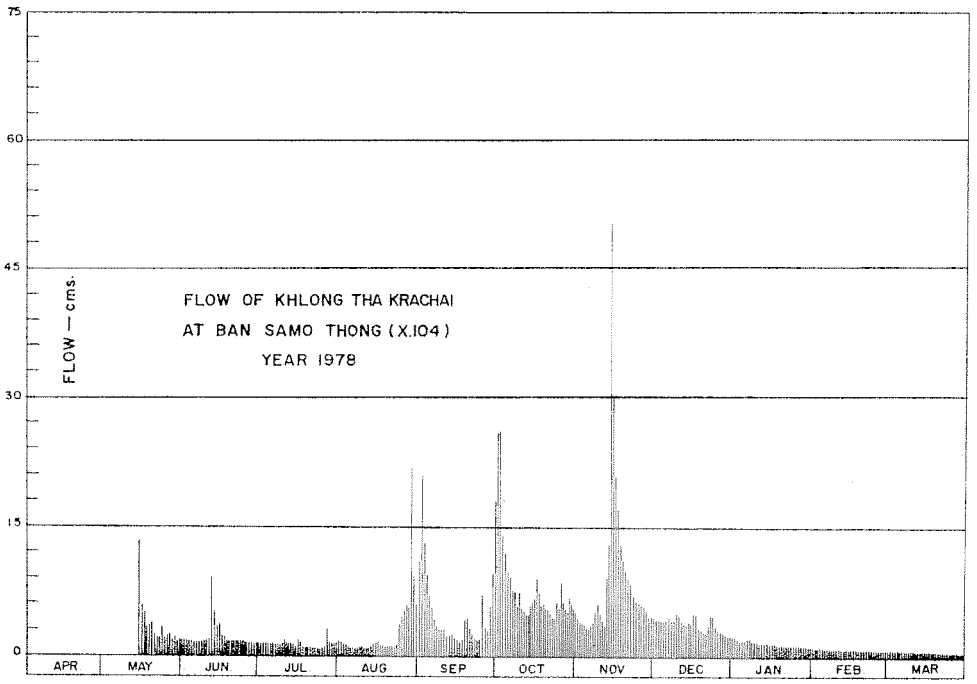
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 52 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — STREAM GAGING BEGAN ON MAY 15, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.60	0.57	0.60	1.09	1.67	0.76	0.76	0.62	0.52	0.48	
2	*******	*******	0.60	0.57	0.59	1.50	1.68	0.74	0.75	0.61	0.52	0.48	
3	*******	*******	0.59	0.57	0.56	1.19	1.25	0.73	0.75	0.60	0.52	0.48	
4	*******	*******	0.59	0.57	0.54	1.01	1.14	0.71	0.74	0.60	0.52	0.48	
5	*******	*******	0.58	0.57	0.53	0.89	1.04	0.70	0.73	0.60	0.51	0.48	
6	*******	*******	0.58	0.57	0.52	0.83	1.00	0.69	0.75	0.61	0.51	0.47	
7	*******	*******	0.58	0.56	0.52	0.75	0.93	0.72	0.76	0.62	0.51	0.47	
8	*******	*******	0.58	0.56	0.51	0.70	0.92	0.79	0.74	0.60	0.51	0.47	
9	*******	*******	0.59	0.55	0.53	0.68	0.84	0.85	0.74	0.59	0.51	0.47	
10	*******	*******	0.60	0.57	0.53	0.69	0.91	0.78	0.79	0.59	0.51	0.47	
11	*******	*******	0.60	0.60	0.51	0.65	0.82	0.73	0.76	0.57	0.50	0.46	
12	*******	*******	1.00	0.57	0.51	0.63	0.80	0.71	0.73	0.57	0.50	0.46	
13	*******	*******	0.80	0.56	0.53	0.64	0.79	1.17	0.71	0.57	0.50	0.46	
14	*******	*******	0.70	0.56	0.57	0.64	0.86	2.46	0.74	0.57	0.50	0.46	
15	*******	1.19	0.73	0.53	0.58	0.61	0.88	1.80	0.72	0.57	0.50	0.45	
16	*******	0.84	0.63	0.60	0.58	0.60	1.00	1.50	0.79	0.56	0.50	0.45	
17	*******	0.79	0.63	0.56	0.55	0.59	0.91	1.36	0.78	0.56	0.50	0.45	
18	*******	0.69	0.60	0.53	0.54	0.75	0.84	1.18	0.69	0.55	0.50	0.45	
19	*******	0.71	0.60	0.52	0.53	0.75	0.85	1.12	0.68	0.55	0.49	0.44	
20	*******	0.72	0.60	0.52	0.54	0.69	0.82	1.04	0.67	0.55	0.49	0.44	
21	*******	0.64	0.60	0.52	0.54	0.66	0.81	1.00	0.66	0.55	0.49	0.44	
22	*******	0.62	0.60	0.52	0.53	0.61	0.78	0.95	0.71	0.55	0.49	0.44	
23	*******	0.62	0.60	0.52	0.53	0.61	0.75	0.90	0.78	0.55	0.49	0.44	
24	*******	0.70	0.60	0.51	0.72	0.60	0.86	0.87	0.76	0.55	0.49	0.43	
25	*******	0.63	0.58	0.51	0.77	0.91	0.82	0.86	0.69	0.55	0.48	0.43	
26	*******	0.64	0.58	0.51	0.81	0.72	0.97	0.85	0.67	0.54	0.48	0.43	
27	*******	0.64	0.58	0.70	0.84	0.67	0.85	0.83	0.66	0.54	0.48	0.42	
28	*******	0.60	0.58	0.59	0.83	0.83	0.80	0.80	0.65	0.54	0.48	0.42	
29	*******	0.62	0.58	0.56	1.54	1.02	0.88	0.77	0.64	0.54		0.41	
30	*******	0.60	0.57	0.57	1.04	1.39	0.85	0.77	0.63	0.53		0.41	
31		0.60		0.59	0.88		0.80		0.63	0.53		0.40	
MEAN	*******	*******	0.62	0.56	0.64	0.80	0.94	0.97	0.72	0.57	0.50	0.45	
MAX	*******	1.19	1.00	0.70	1.54	1.50	1.68	2.46	0.79	0.62	0.52	0.48	2.46
MIN	*******	*******	0.57	0.51	0.51	0.59	0.75	0.69	0.63	0.53	0.48	0.40	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.70 M (A.D), AT 6.00 HOURS, ON NOV 14, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.12 M (A.D)
LEFT BANK ELEVATION 10.83 M (A.D)
RIGHT BANK ELEVATION 10.61 M (A.D), DRAINAGE AREA 354 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	1.80	1.50	1.80	10.89	26.97	4.34	4.34	2.11	1.00	0.70	
2	*******	*******	1.80	1.50	1.70	21.00	26.38	4.01	4.17	1.95	1.00	0.70	
3	*******	*******	1.70	1.50	1.40	13.08	14.50	3.84	4.17	1.80	1.00	0.70	
4	*******	*******	1.70	1.50	1.20	9.21	11.98	3.51	4.01	1.80	1.00	0.70	
5	*******	*******	1.60	1.50	1.10	6.80	9.84	3.35	3.84	1.80	0.90	0.70	
6	*******	*******	1.60	1.50	1.00	5.60	9.00	3.19	4.17	1.95	0.90	0.65	
7	*******	*******	1.60	1.40	1.00	4.17	7.60	3.68	4.34	2.11	0.90	0.65	
8	*******	*******	1.60	1.40	0.90	3.35	7.40	4.83	4.01	1.80	0.90	0.65	
9	*******	*******	1.70	1.30	1.10	3.04	5.80	6.00	4.01	1.70	0.90	0.65	
10	*******	*******	1.80	1.50	1.10	3.19	7.20	4.67	4.83	1.70	0.90	0.65	
11	*******	*******	1.80	1.80	0.90	2.58	5.40	3.84	4.34	1.50	0.80	0.60	
12	*******	*******	9.00	1.50	0.90	2.27	5.00	3.51	3.84	1.50	0.80	0.60	
13	*******	*******	5.00	1.40	1.10	2.42	4.83	12.64	3.51	1.50	0.80	0.60	
14	*******	*******	3.35	1.40	1.50	2.42	6.20	53.60	4.01	1.50	0.80	0.60	
15	*******	13.08	3.84	1.10	1.60	1.95	6.60	30.10	3.68	1.50	0.80	0.55	
16	*******	5.80	2.27	1.80	1.60	1.80	9.00	21.00	4.83	1.40	0.80	0.55	
17	*******	4.83	2.27	1.40	1.30	1.70	7.20	17.26	4.67	1.40	0.80	0.55	
18	*******	3.19	1.80	1.10	1.20	4.17	5.80	12.86	3.19	1.30	0.80	0.55	
19	*******	3.51	1.80	1.00	1.10	4.17	6.00	11.54	3.04	1.30	0.75	0.50	
20	*******	3.68	1.80	1.00	1.20	3.19	5.40	9.84	2.88	1.30	0.75	0.50	
21	*******	2.42	1.80	1.00	1.20	2.73	5.20	9.00	2.73	1.30	0.75	0.50	
22	*******	2.11	1.80	1.00	1.10	1.95	4.67	8.00	3.51	1.30	0.75	0.50	
23	*******	2.11	1.80	1.00	1.10	1.95	4.17	7.00	4.67	1.30	0.75	0.50	
24	*******	3.35	1.80	0.90	3.68	1.80	6.20	6.40	4.34	1.30	0.75	0.45	
25	*******	2.27	1.60	0.90	4.50	7.20	5.40	6.20	3.19	1.30	0.70	0.45	
26	*******	2.42	1.60	0.90	5.20	3.68	8.40	6.00	2.88	1.20	0.70	0.45	
27	*******	2.42	1.60	3.35	5.80	2.88	6.00	5.60	2.73	1.20	0.70	0.40	
28	*******	1.80	1.60	1.70	5.60	5.60	5.00	5.00	2.58	1.20	0.70	0.40	
29	*******	2.11	1.60	1.40	22.16	9.42	6.60	4.50	2.42	1.20		0.35	
30	*******	1.80	1.50	1.50	9.84	18.04	6.00	4.50	2.27	1.10		0.35	
31		1.80		1.70	6.60		5.00		2.27	1.10		0.30	
TOTAL	*******	*******	66.53	43.45	91.48	162.25	249.84	279.81	113.47	46.42	23.10	17.00	******** CMSDAY
MEAN	*******	*******	2.22	1.40	2.95	5.41	8.06	9.33	3.66	1.50	0.82	0.55	******* CMS
MAX	*******	13.08	9.00	3.35	22.16	21.00	26.38	53.60	4.83	2.11	1.00	0.70	53.60 CMS
MIN	*******	*******	1.50	0.90	0.90	1.70	4.17	3.19	2.27	1.10	0.70	0.30	******* CMS
RUNOFF	*******	*******	5.748	3.754	7.904	14.018	21.586	24.176	9.804	4.011	1.996	1.469	******** MCM

MOMENTARY PEAK 63.60 CMS, AT 2.70 M (A.D), AT 6.00 HOURS, ON NOV 14, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 179.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — STREAM GAGING BEGAN ON JUN 1, 1978. NO RECORDS DURING AUG 1-SEPT 30, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

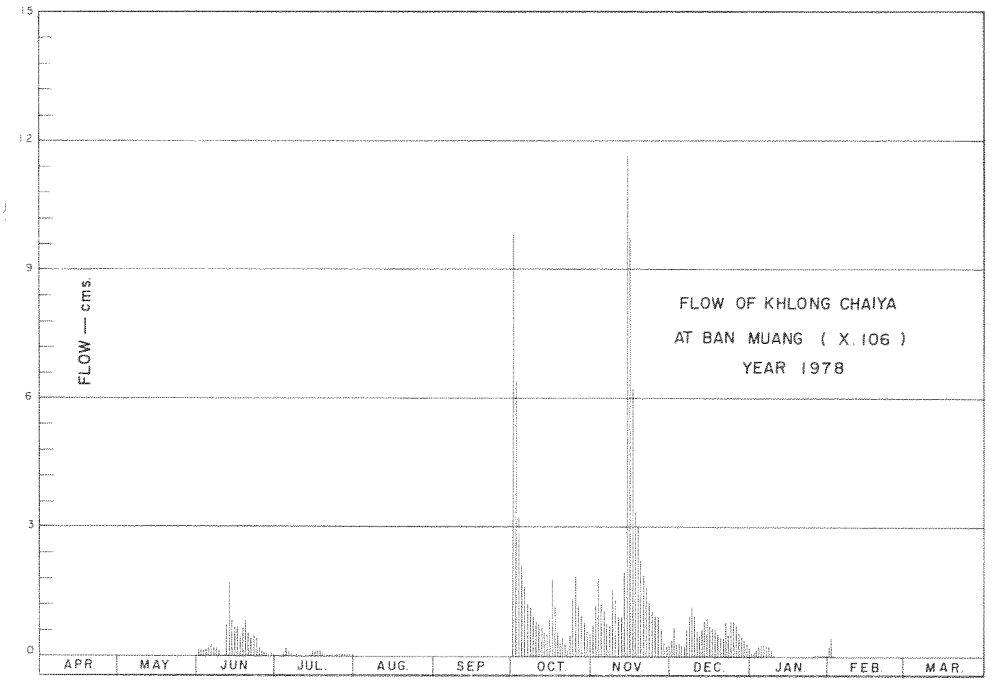
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.40	0.30	*******	*******	1.64	0.55	0.42	0.35	0.48	0.29	
2	*******	*******	0.39	0.30	*******	*******	1.25	0.64	0.55	0.35	0.31	0.29	
3	*******	*******	0.38	0.31	*******	*******	1.00	0.76	0.45	0.38	0.31	0.29	
4	*******	*******	0.39	0.36	*******	*******	0.84	0.67	0.42	0.43	0.31	0.28	
5	*******	*******	0.39	0.39	*******	*******	0.74	0.64	0.44	0.42	0.31	0.28	
6	*******	*******	0.42	0.34	*******	*******	0.70	0.63	0.40	0.43	0.31	0.28	
7	*******	*******	0.40	0.32	*******	*******	0.66	0.56	0.53	0.43	0.30	0.28	
8	*******	*******	0.40	0.31	*******	*******	0.65	0.55	0.60	0.42	0.30	0.28	
9	*******	*******	0.36	0.32	*******	*******	0.62	0.73	0.65	0.37	0.30	0.28	
10	*******	*******	0.31	0.30	*******	*******	0.58	0.68	0.61	0.32	0.30	0.28	
11	*******	*******	0.29	0.31	*******	*******	0.57	0.61	0.55	0.29	0.30	0.27	
12	*******	*******	0.48	0.32	*******	*******	0.56	0.60	0.49	0.28	0.30	0.27	
13	*******	*******	0.75	0.32	*******	*******	0.52	0.79	0.54	0.27	0.30	0.27	
14	*******	*******	0.59	0.32	*******	*******	0.50	1.81	0.58	0.27	0.30	0.27	
15	*******	*******	0.54	0.36	*******	*******	0.56	1.50	0.60	0.27	0.30	0.27	
16	*******	*******	0.55	0.36	*******	*******	0.76	1.22	0.56	0.27	0.29	0.27	
17	*******	*******	0.50	0.37	*******	*******	0.70	0.96	0.54	0.27	0.29	0.27	
18	*******	*******	0.48	0.37	*******	*******	0.57	0.93	0.56	0.29	0.29	0.27	
19	*******	*******	0.58	0.36	*******	*******	0.44	0.86	0.52	0.29	0.29	0.27	
20	*******	*******	0.51	0.32	*******	*******	0.49	0.81	0.49	0.29	0.29	0.27	
21	*******	*******	0.48	0.32	*******	*******	0.47	0.77	0.48	0.29	0.29	0.27	
22	*******	*******	0.50	0.32	*******	*******	0.39	0.73	0.58	0.29	0.29	0.27	
23	*******	*******	0.49	0.32	*******	*******	0.53	0.68	0.50	0.29	0.29	0.27	
24	*******	*******	0.40	0.31	*******	*******	0.69	0.65	0.59	0.29	0.29	0.27	
25	*******	*******	0.38	0.36	*******	*******	0.76	0.62	0.59	0.29	0.29	0.27	
26	*******	*******	0.35	0.33	*******	*******	0.68	0.61	0.58	0.33	0.29	0.27	
27	*******	*******	0.34	0.31	*******	*******	0.63	0.60	0.53	0.33	0.29	0.27	
28	*******	*******	0.31	0.32	*******	*******	0.60	0.46	0.50	0.33	0.29	0.27	
29	*******	*******	0.31	0.33	*******	*******	0.55	0.44	0.47	0.33		0.27	
30	*******	*******	0.34	0.32	*******	*******	0.52	0.42	0.45	0.33		0.27	
31		*******		0.32	0.00		0.51		0.43	0.33		0.00	
MEAN	*******	*******	0.43	0.33	*******	*******	0.67	0.75	0.52	0.33	0.30	0.27	
MAX	*******	*******	0.75	0.39	0.00	*******	1.64	1.81	0.65	0.43	0.48	0.29	1.81
MIN	*******	*******	0.29	0.30	*******	*******	0.39	0.42	0.40	0.27	0.29	0.00	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.89 M (A.D), AT 12.00 HOURS, ON NOV 14, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.21 M (A.D)

LEFT BANK ELEVATION — 5.06 M (A.D)

RIGHT BANK ELEVATION — 5.06 M (A.D), DRAINAGE AREA — 309 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.20	0.00	*******	*******	9.84	0.70	0.26	0.10	0.44	0.00	
2	*******	*******	0.18	0.00	*******	*******	5.90	1.10	0.70	0.10	0.02	0.00	
3	*******	*******	0.16	0.02	*******	*******	3.70	1.82	0.35	0.16	0.02	0.00	
4	*******	*******	0.18	0.12	*******	*******	2.42	1.25	0.26	0.29	0.02	0.00	
5	*******	*******	0.18	0.18	*******	*******	1.68	1.10	0.32	0.26	0.02	0.00	
6	*******	*******	0.26	0.08	*******	*******	1.40	1.05	0.20	0.29	0.02	0.00	
7	*******	*******	0.20	0.04	*******	*******	1.20	0.74	0.62	0.29	0.00	0.00	
8	*******	*******	0.20	0.02	*******	*******	1.15	0.70	0.90	0.26	0.00	0.00	
9	*******	*******	0.12	0.04	*******	*******	1.00	1.61	1.15	0.14	0.00	0.00	
10	*******	*******	0.02	0.00	*******	*******	0.82	1.30	0.95	0.04	0.00	0.00	
11	*******	*******	0.00	0.02	*******	*******	0.78	0.95	0.70	0.00	0.00	0.00	
12	*******	*******	0.44	0.04	*******	*******	0.74	0.90	0.47	0.00	0.00	0.00	
13	*******	*******	1.75	0.04	*******	*******	0.58	2.03	0.66	0.00	0.00	0.00	
14	*******	*******	0.86	0.04	*******	*******	0.50	11.71	0.82	0.00	0.00	0.00	
15	*******	*******	0.66	0.12	*******	*******	0.74	8.40	0.90	0.00	0.00	0.00	
16	*******	*******	0.70	0.12	*******	*******	1.82	5.60	0.74	0.00	0.00	0.00	
17	*******	*******	0.50	0.14	*******	*******	1.40	3.38	0.66	0.00	0.00	0.00	
18	*******	*******	0.44	0.14	*******	*******	0.78	3.14	0.74	0.00	0.00	0.00	
19	*******	*******	0.82	0.12	*******	*******	0.32	2.58	0.58	0.00	0.00	0.00	
20	*******	*******	0.54	0.04	*******	*******	0.47	2.18	0.47	0.00	0.00	0.00	
21	*******	*******	0.44	0.04	*******	*******	0.41	1.89	0.44	0.00	0.00	0.00	
22	*******	*******	0.50	0.04	*******	*******	0.18	1.61	0.82	0.00	0.00	0.00	
23	*******	*******	0.47	0.04	*******	*******	0.62	1.30	0.50	0.00	0.00	0.00	
24	*******	*******	0.20	0.02	*******	*******	1.35	1.15	0.86	0.00	0.00	0.00	
25	*******	*******	0.16	0.12	*******	*******	1.82	1.00	0.86	0.00	0.00	0.00	
26	*******	*******	0.10	0.06	*******	*******	1.30	0.95	0.82	0.06	0.00	0.00	
27	*******	*******	0.08	0.02	*******	*******	1.05	0.90	0.62	0.06	0.00	0.00	
28	*******	*******	0.02	0.04	*******	*******	0.90	0.38	0.50	0.06	0.00	0.00	
29	*******	*******	0.02	0.06	*******	*******	0.70	0.32	0.41	0.06		0.00	
30	*******	*******	0.08	0.04	*******	*******	0.58	0.26	0.35	0.06		0.00	
31		*******		0.04	0.00		0.54		0.29	0.06		0.00	
TOTAL	*******	*******	10.48	1.84	*******	*******	46.69	62.00	18.92	2.29	0.54	0.00	******** CMSDAY
MEAN	*******	*******	0.35	0.06	*******	*******	1.51	2.07	0.61	0.07	0.02	0.00	******* CMS
MAX	*******	*******	1.75	0.18	0.00	*******	9.84	11.71	1.15	0.29	0.44	0.00	11.71 CMS
MIN	*******	*******	0.00	0.00	*******	*******	0.18	0.26	0.20	0.00	0.00	0.00	******* CMS
RUNOFF	*******	*******	0.905	0.159	*******	*******	4.034	5.357	1.635	0.198	0.047	0.000	******** MCM

MOMENTARY PEAK 12.59 CMS, AT 1.89 M (A.D), AT 12.00 HOURS, ON NOV 14, 1978

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 40.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

KHLONG THA DI AT BAN NA KAM, NAKHON SI THAMMARAT (X.55)

LOCATION — LAT. 8°-23'-53" N., LONG. 99°-50'-15" E., ON LEFT BANK ABOUT 450 METERS DOWNSTREAM FROM THE BRIDGE OF KARAM ROAD AT BAN NA KAM, AMPHOE LAN SAKA, NAKHON SI THAMMARAT.

DRAINAGE AREA — 105 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-M.S.

LOCATION — 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 — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 541 DISCHARGE MEASUREMENTS MADE DURING 1967-1971.

REMARKS — NO RECORDS ON JUN 1-30, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

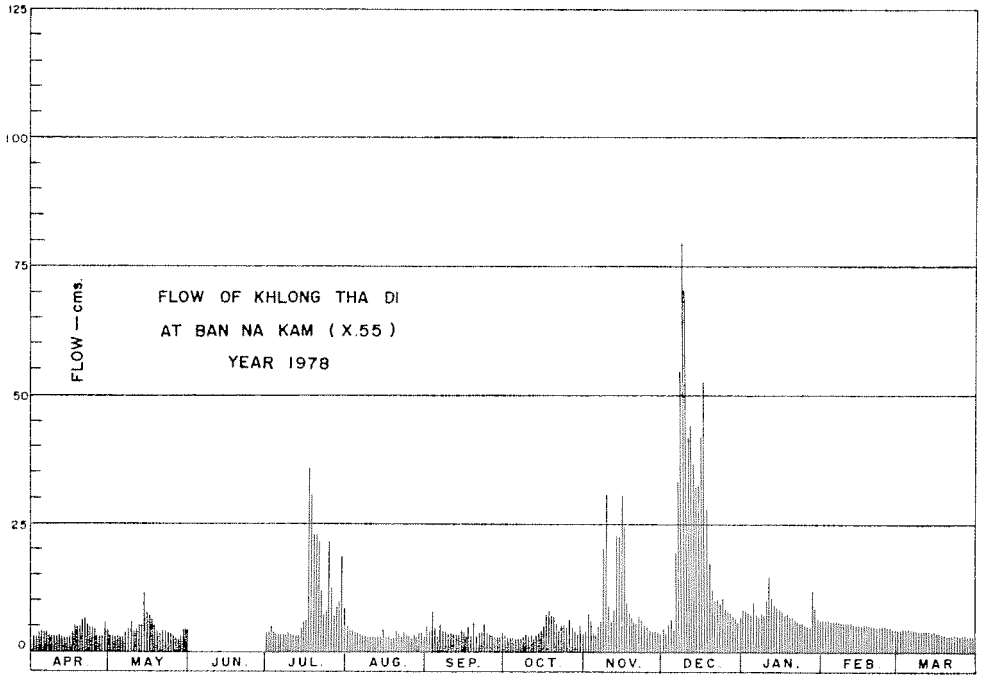
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.49	0.52	*******	0.53	0.62	0.64	0.51	0.58	0.62	0.84	0.72	0.59	
2	0.49	0.51	*******	0.53	0.58	0.55	0.50	0.82	0.54	0.82	0.72	0.59	
3	0.55	0.50	*******	0.62	0.57	0.83	0.49	0.63	0.69	0.80	0.71	0.58	
4	0.54	0.49	*******	0.52	0.55	0.58	0.49	0.54	0.74	0.79	0.71	0.58	
5	0.53	0.49	*******	0.52	0.54	0.52	0.48	0.53	0.60	0.91	0.70	0.57	
6	0.53	0.48	*******	0.52	0.53	0.67	0.50	0.63	1.96	0.80	0.70	0.57	
7	0.51	0.56	*******	0.51	0.52	0.55	0.48	0.75	2.77	0.78	0.69	0.57	
8	0.51	0.59	*******	0.51	0.51	0.54	0.47	1.58	3.46	0.81	0.69	0.56	
9	0.50	0.69	*******	0.54	0.51	0.53	0.54	1.89	2.90	0.79	0.68	0.56	
10	0.50	0.57	*******	0.49	0.50	0.53	0.49	0.81	2.23	0.94	0.68	0.56	
11	0.50	0.59	*******	0.49	0.50	0.52	0.50	0.71	2.39	1.16	0.67	0.55	
12	0.49	0.66	*******	0.48	0.49	0.52	0.47	0.88	2.20	0.92	0.67	0.55	
13	0.48	0.66	*******	0.48	0.49	0.51	0.47	1.54	1.93	0.88	0.67	0.55	
14	0.51	1.03	*******	0.63	0.48	0.58	0.56	1.51	1.97	0.86	0.66	0.54	
15	0.50	0.82	*******	0.72	0.60	0.53	0.59	1.87	2.25	0.83	0.66	0.54	
16	0.53	0.79	*******	0.74	0.49	0.52	0.66	1.44	2.69	0.81	0.65	0.54	
17	0.65	0.70	*******	2.08	0.48	0.64	0.81	0.90	1.95	0.79	0.65	0.53	
18	0.64	0.61	*******	1.89	0.47	0.52	0.82	0.78	1.59	0.77	0.65	0.53	
19	0.65	0.56	*******	1.54	0.47	0.69	0.77	0.74	1.27	0.75	0.64	0.53	
20	0.73	0.53	*******	1.56	0.58	0.52	0.77	0.71	1.04	0.73	0.64	0.53	
21	0.75	0.58	*******	1.41	0.53	0.59	0.65	0.71	0.95	0.72	0.63	0.52	
22	0.67	0.56	*******	1.03	0.52	0.57	0.59	0.82	0.95	0.69	0.63	0.52	
23	0.62	0.56	*******	0.80	0.58	0.67	0.67	0.68	0.92	0.71	0.63	0.52	
24	0.62	0.52	*******	0.86	0.52	0.53	0.67	0.65	0.98	0.68	0.62	0.52	
25	0.56	0.50	*******	1.50	0.50	0.52	0.61	0.62	0.85	0.66	0.61	0.51	
26	0.50	0.48	*******	0.95	0.49	0.52	0.74	0.59	0.80	0.63	0.61	0.51	
27	0.48	0.48	*******	0.78	0.55	0.51	0.59	0.57	0.77	0.62	0.60	0.51	
28	0.51	0.47	*******	0.93	0.52	0.50	0.56	0.56	0.75	1.06	0.60	0.50	
29	0.68	0.60	*******	0.95	0.54	0.50	0.52	0.55	0.73	0.85		0.50	
30	0.53	0.61	*******	1.37	0.58	0.56	0.65	0.54	0.72	0.74		0.50	
31		0.58		0.85	0.49		0.51		0.76	0.73		0.49	
MEAN	0.56	0.59	*******	0.88	0.53	0.57	0.58	0.87	1.45	0.80	0.66	0.54	
MAX	0.75	1.03	*******	2.08	0.62	0.83	0.82	1.89	3.46	1.16	0.72	0.59	3.46
MIN	0.48	0.47	*******	0.48	0.47	0.50	0.47	0.53	0.54	0.62	0.60	0.49	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.92 M (A.D), AT 6.00 HOURS, ON DEC 8, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.10	3.48	*******	3.62	4.88	5.16	3.34	4.32	4.88	8.32	6.32	4.46	
2	3.10	3.34	*******	3.62	4.32	3.90	3.20	7.96	3.76	7.96	6.32	4.46	
3	3.90	3.20	*******	4.88	4.18	8.14	3.10	5.02	5.86	7.60	6.16	4.32	
4	3.76	3.10	*******	3.48	3.90	4.32	3.10	3.76	6.64	7.44	6.16	4.32	
5	3.62	3.10	*******	3.48	3.76	3.48	3.00	3.62	4.60	9.58	6.00	4.18	
6	3.62	3.00	*******	3.48	3.62	5.58	3.20	5.02	32.96	7.60	6.00	4.18	
7	3.34	4.04	*******	3.34	3.48	3.90	3.00	6.80	55.30	7.28	5.86	4.18	
8	3.34	4.46	*******	3.34	3.34	3.76	2.90	23.72	79.28	7.78	5.86	4.04	
9	3.20	5.86	*******	3.76	3.34	3.62	3.76	31.16	59.20	7.44	5.72	4.04	
10	3.20	4.18	*******	3.10	3.20	3.62	3.10	7.78	40.04	10.12	5.72	4.04	
11	3.20	4.46	*******	3.10	3.20	3.48	3.20	6.16	44.52	14.40	5.58	3.90	
12	3.10	5.44	*******	3.00	3.10	3.48	2.90	9.04	39.20	9.76	5.58	3.90	
13	3.00	5.44	*******	3.00	3.10	3.34	2.90	22.76	32.18	9.04	5.58	3.90	
14	3.34	11.80	*******	5.02	3.00	4.32	4.04	22.04	33.22	8.68	5.44	3.76	
15	3.20	7.96	*******	6.32	4.60	3.62	4.46	30.68	40.60	8.14	5.44	3.76	
16	3.62	7.44	*******	6.64	5.10	3.48	5.44	20.42	52.92	7.78	5.30	3.76	
17	5.30	6.00	*******	36.08	3.00	5.16	7.78	9.40	32.70	7.44	5.30	3.62	
18	5.16	4.74	*******	31.16	2.90	3.48	7.96	7.28	23.96	7.12	5.30	3.62	
19	5.30	4.04	*******	22.76	2.90	5.86	7.12	6.64	16.60	6.80	5.16	3.62	
20	6.48	3.62	*******	23.24	4.32	3.48	7.12	6.16	12.00	6.48	5.16	3.62	
21	6.80	4.32	*******	19.73	3.62	4.46	5.30	6.16	10.30	6.32	5.02	3.48	
22	5.58	4.04	*******	11.80	3.48	4.18	4.46	7.96	10.30	5.86	5.02	3.48	
23	4.88	4.04	*******	7.60	4.32	5.58	5.58	5.72	9.76	6.16	5.02	3.48	
24	4.88	3.48	*******	8.68	3.48	3.62	5.58	5.30	10.84	5.72	4.88	3.48	
25	4.04	3.20	*******	21.80	3.20	3.48	4.74	4.88	8.50	5.44	4.74	3.34	
26	3.20	3.00	*******	10.30	3.10	3.48	6.64	4.46	7.60	5.02	4.74	3.34	
27	3.00	3.00	*******	7.28	3.90	3.34	4.46	4.18	7.12	4.88	4.60	3.34	
28	3.34	2.90	*******	9.94	3.48	3.20	4.04	4.04	6.80	12.40	4.60	3.20	
29	5.72	4.60	*******	10.30	3.76	3.20	3.48	3.90	6.48	8.50		3.20	
30	3.62	4.74	*******	18.81	4.32	4.04	5.30	3.76	6.32	6.64		3.20	
31		4.32		8.50	3.10		3.34		6.96	6.48		3.10	
TOTAL	120.94	140.34	*******	311.16	111.00	123.76	137.54	290.10	711.40	240.18	152.58	116.32	******** CMSDAY
MEAN	4.03	4.53	*******	10.04	3.58	4.13	4.44	9.67	22.95	7.75	5.45	3.75	******* CMS
MAX	6.80	11.80	*******	36.08	4.88	8.14	7.96	31.16	79.28	14.40	6.32	4.46	79.28 CMS
MIN	3.00	2.90	*******	3.00	2.90	3.20	2.90	3.62	3.76	4.88	4.60	3.10	******* CMS
RUNOFF	10.449	12.125	*******	26.884	9.590	10.693	11.883	25.065	61.465	20.752	13.183	10.050	******** MCM

MOMENTARY PEAK 110.40 CMS, AT 3.92 M (A.D), AT 6.00 HOURS, ON DEC 8, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1051.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

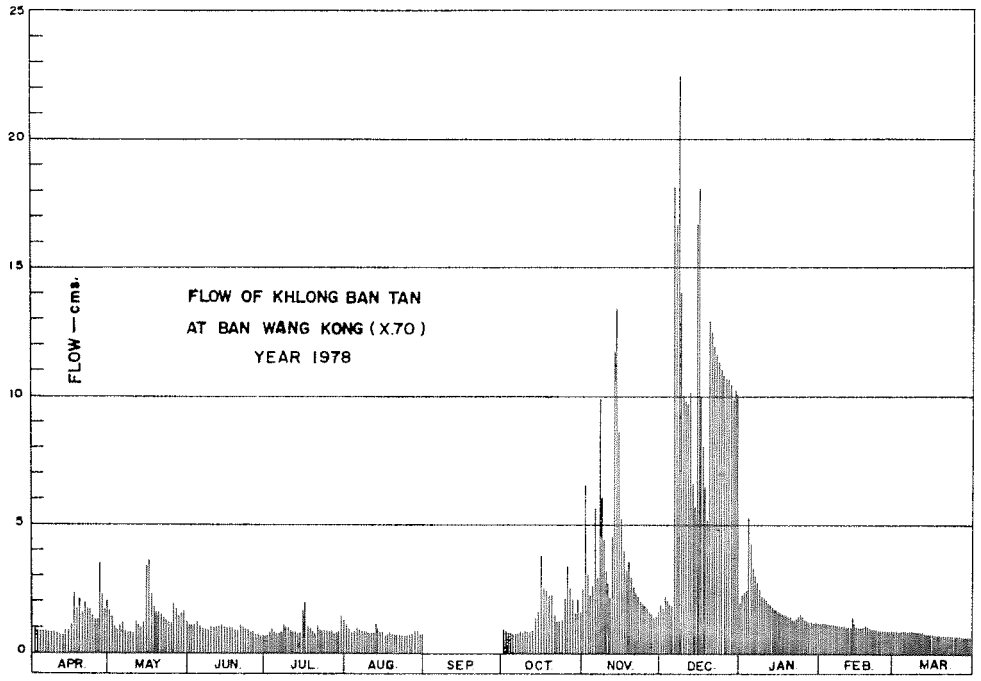
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 461 DISCHARGE MEASUREMENTS MADE DURING 1967-1971.

REMARKS — NO RECORDS ON SEPT 1-30, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.47	0.36	0.25	0.37	*******	0.32	0.60	0.51	0.56	0.37	0.30	
2	0.32	0.42	0.35	0.26	0.34	*******	0.29	1.17	0.48	0.60	0.37	0.31	
3	0.31	0.34	0.36	0.32	0.30	*******	0.28	0.69	0.57	0.61	0.37	0.30	
4	0.30	0.30	0.37	0.30	0.28	*******	0.28	0.55	0.52	1.02	0.36	0.30	
5	0.30	0.35	0.35	0.28	0.33	*******	0.27	0.62	0.50	0.90	0.36	0.30	
6	0.29	0.36	0.33	0.28	0.32	*******	0.27	1.07	2.38	0.74	0.36	0.29	
7	0.29	0.30	0.32	0.28	0.30	*******	0.27	0.69	2.25	0.69	0.36	0.29	
8	0.28	0.29	0.31	0.35	0.30	*******	0.29	1.57	2.75	0.64	0.35	0.29	
9	0.28	0.28	0.29	0.32	0.29	*******	0.27	0.90	1.82	0.59	0.35	0.29	
10	0.28	0.27	0.28	0.33	0.29	*******	0.31	0.71	1.59	0.57	0.35	0.28	
11	0.27	0.38	0.34	0.30	0.28	*******	0.28	0.57	1.54	0.54	0.35	0.28	
12	0.27	0.35	0.33	0.28	0.28	*******	0.28	0.92	1.60	0.52	0.34	0.28	
13	0.26	0.32	0.35	0.28	0.36	*******	0.31	1.77	1.25	0.50	0.34	0.28	
14	0.31	0.37	0.34	0.27	0.30	*******	0.41	1.94	1.08	0.49	0.41	0.27	
15	0.31	0.74	0.33	0.45	0.29	*******	0.47	1.42	2.25	0.48	0.34	0.27	
16	0.34	0.78	0.33	0.51	0.28	*******	0.81	1.00	2.37	0.46	0.34	0.27	
17	0.58	0.65	0.32	0.39	0.26	*******	0.62	0.83	1.44	0.44	0.42	0.27	
18	0.48	0.51	0.33	0.33	0.27	*******	0.62	0.73	1.17	0.44	0.35	0.27	
19	0.54	0.47	0.31	0.29	0.27	*******	0.56	0.80	1.01	0.43	0.34	0.26	
20	0.44	0.46	0.30	0.27	0.26	*******	0.57	0.68	0.89	0.42	0.33	0.26	
21	0.53	0.44	0.35	0.34	0.26	*******	0.44	0.62	0.83	0.41	0.32	0.26	
22	0.49	0.41	0.35	0.33	0.27	*******	0.38	0.59	0.78	0.40	0.32	0.26	
23	0.46	0.39	0.33	0.31	0.26	*******	0.39	0.55	0.74	0.42	0.32	0.25	
24	0.43	0.38	0.32	0.31	0.26	*******	0.39	0.52	0.71	0.45	0.31	0.25	
25	0.41	0.36	0.30	0.30	0.26	*******	0.55	0.51	0.68	0.42	0.31	0.25	
26	0.38	0.52	0.28	0.29	0.26	*******	0.76	0.48	0.66	0.40	0.31	0.25	
27	0.77	0.46	0.27	0.29	0.27	*******	0.62	0.46	0.65	0.39	0.30	0.24	
28	0.56	0.43	0.27	0.28	0.30	*******	0.53	0.43	0.62	0.39	0.30	0.24	
29	0.47	0.45	0.26	0.28	0.29	*******	0.44	0.42	0.57	0.38		0.24	
30	0.53	0.47	0.25	0.44	0.28	*******	0.55	0.45	0.61	0.38		0.24	
31		0.39		0.41	0.27		0.44		0.59	0.37		0.24	
MEAN	0.39	0.42	0.32	0.32	0.29	*******	0.43	0.81	1.14	0.52	0.34	0.27	
MAX	0.77	0.78	0.37	0.51	0.37	*******	0.81	1.94	2.75	1.02	0.42	0.31	2.75
MIN	0.26	0.27	0.25	0.25	0.26	*******	0.27	0.42	0.48	0.37	0.30	0.24	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.58 M (A.D), AT 15.00 HOURS, ON DEC 6, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.99	1.65	1.12	0.65	1.16	*******	0.94	2.35	1.85	2.13	1.16	0.85	
2	0.94	1.40	1.07	0.69	1.03	*******	0.81	6.41	1.70	2.35	1.16	0.89	
3	0.89	1.03	1.12	0.94	0.85	*******	0.77	2.89	2.18	2.41	1.16	0.85	
4	0.85	0.85	1.16	0.85	0.77	*******	0.77	2.07	1.91	5.25	1.12	0.85	
5	0.85	1.07	1.07	0.77	0.99	*******	0.73	2.47	1.80	4.35	1.12	0.85	
6	0.81	1.12	0.99	0.77	0.94	*******	0.73	5.62	18.08	3.23	1.12	0.81	
7	0.81	0.85	0.94	0.77	0.85	*******	0.73	2.89	16.65	2.89	1.12	0.81	
8	0.77	0.81	0.89	1.07	0.85	*******	0.81	9.88	22.37	2.59	1.07	0.81	
9	0.77	0.77	0.81	0.94	0.81	*******	0.73	4.35	12.20	2.29	1.07	0.81	
10	0.77	0.73	0.77	0.99	0.81	*******	0.89	3.02	10.06	2.18	1.07	0.77	
11	0.73	1.21	1.03	0.85	0.77	*******	0.77	2.18	9.61	2.02	1.07	0.77	
12	0.73	1.07	0.99	0.77	0.77	*******	0.77	4.50	10.15	1.91	1.03	0.77	
13	0.69	0.94	1.07	0.77	1.12	*******	0.89	11.71	7.07	1.80	1.03	0.77	
14	0.89	1.16	1.03	0.73	0.85	*******	1.35	13.40	5.70	1.75	1.35	0.73	
15	0.89	3.23	0.99	1.55	0.81	*******	1.65	8.53	16.65	1.70	1.03	0.73	
16	1.03	3.51	0.99	1.85	0.77	*******	3.72	5.10	17.97	1.60	1.03	0.73	
17	2.24	2.65	0.94	1.25	0.69	*******	2.47	3.86	8.71	1.50	1.40	0.73	
18	1.70	1.85	0.99	0.99	0.73	*******	2.47	3.16	6.41	1.50	1.07	0.73	
19	2.02	1.65	0.89	0.81	0.73	*******	2.13	3.65	5.17	1.45	1.03	0.69	
20	1.50	1.60	0.85	0.73	0.69	*******	2.18	2.83	4.28	1.40	0.99	0.69	
21	1.96	1.50	1.07	1.03	0.69	*******	1.50	2.47	3.86	1.35	0.94	0.69	
22	1.75	1.35	1.07	0.99	0.73	*******	1.21	2.29	3.51	1.30	0.94	0.69	
23	1.60	1.25	0.99	0.89	0.69	*******	1.25	2.07	3.23	1.40	0.94	0.65	
24	1.45	1.21	0.94	0.89	0.69	*******	1.25	1.91	3.02	1.55	0.89	0.65	
25	1.35	1.12	0.85	0.85	0.69	*******	2.07	1.85	2.83	1.40	0.89	0.65	
26	1.21	1.91	0.77	0.81	0.69	*******	3.37	1.70	2.71	1.30	0.89	0.65	
27	3.44	1.60	0.73	0.81	0.73	*******	2.47	1.60	2.65	1.25	0.85	0.61	
28	2.13	1.45	0.73	0.77	0.85	*******	1.96	1.45	2.47	1.25	0.85	0.61	
29	1.65	1.55	0.69	0.77	0.81	*******	1.50	1.40	2.18	1.21		0.61	
30	1.96	1.65	0.65	1.50	0.77	*******	2.07	1.55	2.41	1.21		0.61	
31		1.25		1.35	0.73		1.50		2.29	1.16		0.61	
TOTAL	39.37	44.99	28.20	29.40	25.06	*******	46.46	119.16	211.68	60.68	29.39	22.67	******** CMSDAY
MEAN	1.31	1.45	0.94	0.95	0.81	*******	1.50	3.97	6.83	1.96	1.05	0.73	******* CMS
MAX	3.44	3.51	1.16	1.85	1.16	*******	3.72	13.40	22.37	5.25	1.40	0.89	22.37 CMS
MIN	0.69	0.73	0.65	0.65	0.69	*******	0.73	1.40	1.70	1.16	0.85	0.61	******* CMS
RUNOFF	3.402	3.887	2.436	2.540	2.165	*******	4.014	10.295	18.289	5.243	2.539	1.959	******** MCM

MOMENTARY PEAK 51.04 CMS, AT 4.58 M (A.D), AT 15.00 HOURS, ON DEC 6, 1978

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1308.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

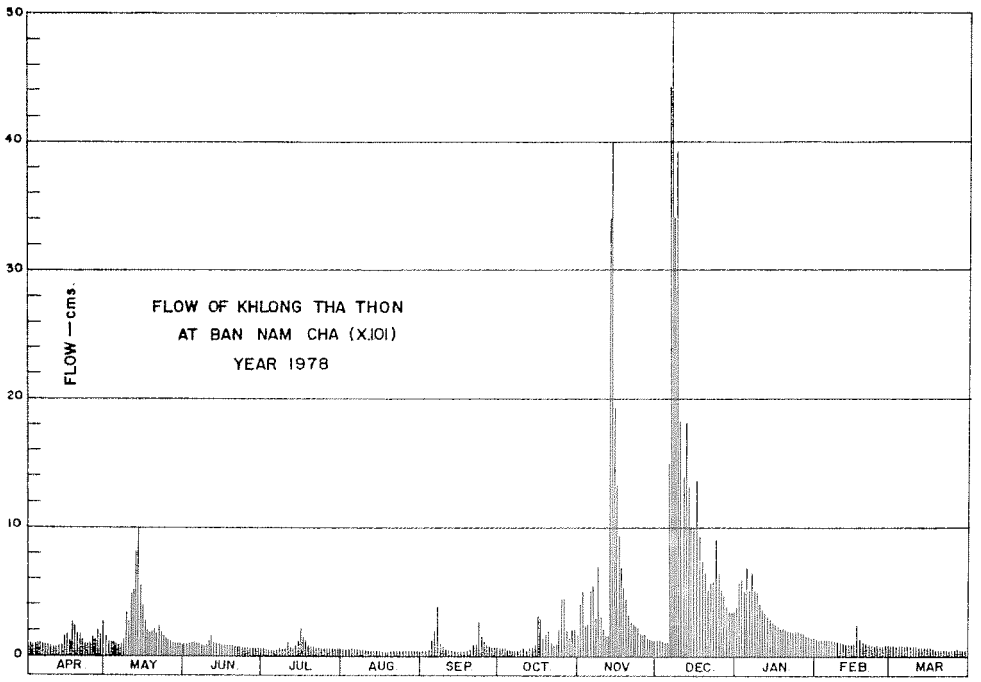
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 193 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.65	0.57	0.52	0.50	0.47	0.51	0.83	0.63	0.82	0.63	0.56	
2	0.58	0.62	0.59	0.50	0.50	0.46	0.50	0.88	0.62	0.91	0.63	0.56	
3	0.57	0.60	0.57	0.50	0.49	0.47	0.50	0.74	0.62	0.92	0.63	0.56	
4	0.59	0.60	0.58	0.50	0.49	0.56	0.50	0.73	0.61	0.87	0.63	0.56	
5	0.59	0.59	0.60	0.51	0.51	0.64	0.48	0.88	0.60	0.96	0.62	0.55	
6	0.57	0.58	0.60	0.50	0.50	0.69	0.48	0.89	1.29	0.92	0.62	0.55	
7	0.56	0.57	0.57	0.54	0.49	0.82	0.49	0.75	2.34	0.95	0.63	0.55	
8	0.55	0.62	0.56	0.51	0.49	0.60	0.49	0.96	1.86	0.88	0.64	0.55	
9	0.55	0.80	0.56	0.50	0.48	0.55	0.48	0.76	1.96	0.87	0.62	0.55	
10	0.55	0.74	0.60	0.51	0.48	0.52	0.52	0.70	1.38	0.83	0.61	0.54	
11	0.54	0.87	0.66	0.61	0.47	0.50	0.49	0.66	1.24	0.81	0.60	0.54	
12	0.54	0.88	0.62	0.53	0.47	0.49	0.48	0.66	1.39	0.80	0.60	0.53	
13	0.54	1.05	0.58	0.52	0.46	0.49	0.48	1.86	1.21	0.77	0.60	0.53	
14	0.54	1.10	0.59	0.56	0.46	0.48	0.53	1.97	1.12	0.76	0.59	0.53	
15	0.67	0.86	0.58	0.61	0.46	0.48	0.59	1.42	1.10	0.74	0.59	0.53	
16	0.67	0.78	0.57	0.72	0.47	0.47	0.78	1.12	1.24	0.73	0.62	0.53	
17	0.62	0.72	0.56	0.64	0.46	0.47	0.76	0.99	1.10	0.72	0.73	0.53	
18	0.74	0.68	0.57	0.61	0.46	0.48	0.63	0.91	1.04	0.71	0.64	0.53	
19	0.72	0.68	0.56	0.58	0.47	0.50	0.66	0.85	0.97	0.71	0.61	0.52	
20	0.67	0.71	0.56	0.54	0.47	0.51	0.69	0.80	0.93	0.70	0.60	0.52	
21	0.66	0.67	0.55	0.53	0.46	0.59	0.61	0.76	0.88	0.69	0.59	0.52	
22	0.61	0.72	0.54	0.53	0.46	0.56	0.57	0.74	0.91	0.69	0.58	0.51	
23	0.58	0.68	0.54	0.52	0.49	0.74	0.59	0.71	0.91	0.69	0.57	0.51	
24	0.57	0.65	0.54	0.51	0.48	0.66	0.69	0.68	1.06	0.75	0.57	0.51	
25	0.59	0.63	0.53	0.51	0.47	0.63	0.85	0.67	0.94	0.69	0.57	0.51	
26	0.64	0.62	0.52	0.51	0.47	0.56	0.85	0.68	0.88	0.68	0.56	0.51	
27	0.61	0.61	0.52	0.51	0.49	0.55	0.70	0.64	0.85	0.67	0.56	0.51	
28	0.70	0.60	0.51	0.50	0.49	0.53	0.64	0.63	0.82	0.66	0.57	0.51	
29	0.64	0.59	0.52	0.50	0.48	0.52	0.70	0.62	0.80	0.65		0.51	
30	0.74	0.59	0.53	0.58	0.48	0.52	0.71	0.61	0.80	0.64		0.51	
31		0.58		0.51	0.47		0.64		0.80	0.64		0.50	
MEAN	0.61	0.70	0.56	0.54	0.48	0.55	0.60	0.87	1.06	0.77	0.61	0.53	
MAX	0.74	1.10	0.66	0.72	0.51	0.82	0.85	1.97	2.34	0.96	0.73	0.56	2.34
MIN	0.54	0.57	0.51	0.50	0.46	0.46	0.48	0.61	0.60	0.64	0.56	0.50	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.35 M (A.D), AT 17.00 HOURS, ON NOV 13, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)
LEFT BANK ELEVATION 7.19 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.00	1.50	0.85	0.60	0.50	0.35	0.55	4.03	1.30	3.82	1.30	0.80	
2	0.90	1.20	0.95	0.50	0.50	0.30	0.50	5.08	1.20	5.71	1.30	0.80	
3	0.85	1.00	0.85	0.50	0.45	0.35	0.50	2.56	1.20	5.92	1.30	0.80	
4	0.95	1.00	0.90	0.50	0.45	0.80	0.50	2.42	1.10	4.87	1.30	0.80	
5	0.95	0.95	1.00	0.55	0.55	1.40	0.40	5.08	1.00	6.76	1.20	0.75	
6	0.85	0.90	1.00	0.50	0.50	1.90	0.40	5.29	15.20	5.92	1.20	0.75	
7	0.80	0.85	0.85	0.70	0.45	3.82	0.45	2.70	57.00	6.55	1.30	0.75	
8	0.75	1.20	0.80	0.55	0.45	1.00	0.45	6.76	34.90	5.08	1.40	0.75	
9	0.75	3.40	0.80	0.50	0.40	0.75	0.40	2.84	39.20	4.87	1.20	0.75	
10	0.75	2.56	1.00	0.55	0.40	0.60	0.60	2.00	17.90	4.03	1.10	0.70	
11	0.70	4.87	1.60	1.10	0.35	0.50	0.45	1.60	13.70	3.61	1.00	0.70	
12	0.70	5.08	1.20	0.65	0.35	0.45	0.40	1.60	18.20	3.40	1.00	0.65	
13	0.70	8.80	0.90	0.60	0.30	0.45	0.40	34.90	12.80	2.98	1.00	0.65	
14	0.70	10.00	0.95	0.80	0.30	0.40	0.65	39.65	10.50	2.84	0.95	0.65	
15	1.70	4.66	0.90	1.10	0.30	0.40	0.95	19.10	10.00	2.56	0.95	0.65	
16	1.70	3.12	0.85	2.28	0.35	0.35	3.12	10.50	13.70	2.42	1.20	0.65	
17	1.20	2.28	0.80	1.40	0.30	0.35	2.84	7.39	10.00	2.28	2.42	0.65	
18	2.56	1.80	0.85	1.10	0.30	0.40	1.30	5.71	8.56	2.14	1.40	0.65	
19	2.28	1.80	0.80	0.90	0.35	0.50	1.60	4.45	6.97	2.14	1.10	0.60	
20	1.70	2.14	0.80	0.70	0.35	0.55	1.90	3.40	6.13	2.00	1.00	0.60	
21	1.60	1.70	0.75	0.65	0.30	0.95	1.10	2.84	5.08	1.90	0.95	0.60	
22	1.10	2.28	0.70	0.65	0.30	0.80	0.85	2.56	5.71	1.90	0.90	0.55	
23	0.90	1.80	0.70	0.60	0.45	2.56	0.95	2.14	5.71	1.90	0.85	0.55	
24	0.85	1.50	0.70	0.55	0.40	1.60	1.90	1.80	9.04	2.70	0.85	0.55	
25	0.95	1.30	0.65	0.55	0.35	1.30	4.45	1.70	6.34	1.90	0.85	0.55	
26	1.40	1.20	0.60	0.55	0.35	0.80	4.45	1.80	5.08	1.80	0.80	0.55	
27	1.10	1.10	0.60	0.55	0.45	0.75	2.00	1.40	4.45	1.70	0.80	0.55	
28	2.00	1.00	0.55	0.50	0.45	0.65	1.40	1.30	3.82	1.60	0.85	0.55	
29	1.40	0.95	0.60	0.50	0.40	0.60	2.00	1.20	3.40	1.50		0.55	
30	2.56	0.95	0.65	0.90	0.40	0.60	2.14	1.10	3.40	1.40		0.55	
31		0.90		0.55	0.35		1.40		3.40	1.40		0.50	
TOTAL	36.35	73.79	25.15	22.63	12.10	26.23	41.00	184.90	335.99	99.60	31.47	20.15	909.36 CMSDAY
MEAN	1.21	2.38	0.84	0.73	0.39	0.87	1.32	6.16	10.84	3.21	1.12	0.65	2.49 CMS
MAX	2.56	10.00	1.60	2.28	0.55	3.82	4.45	39.65	57.00	6.76	2.42	0.80	57.00 CMS
MIN	0.70	0.85	0.55	0.50	0.30	0.30	0.40	1.10	1.00	1.40	0.80	0.50	0.30 CMS
RUNOFF	3.141	6.375	2.173	1.955	1.045	2.266	3.542	15.975	29.029	8.605	2.719	1.741	78.569 MCM

MOMENTARY PEAK 116.50 CMS, AT 3.35 M (A.D), AT 17.00 HOURS, ON NOV 13, 1978
RUNOFF YIELD 26.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1226.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 124 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

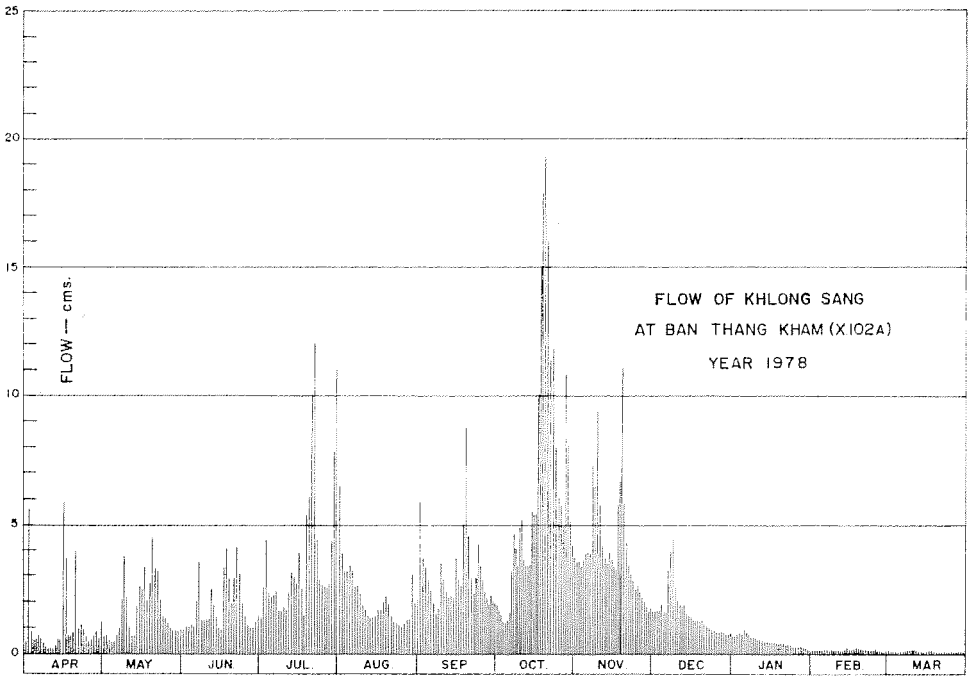
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.86	0.94	1.10	2.30	2.17	1.27	1.68	1.21	0.80	0.59	0.54	
2	2.12	0.84	1.00	1.42	1.76	1.78	1.17	1.68	1.21	0.87	0.59	0.48	
3	0.97	0.76	0.97	1.87	1.59	1.67	1.12	1.63	1.21	0.90	0.58	0.46	
4	0.74	0.71	1.06	1.38	1.58	1.53	1.06	1.73	1.26	0.89	0.58	0.48	
5	0.77	0.69	1.00	1.34	1.63	1.47	1.09	1.78	1.18	0.93	0.57	0.47	
6	0.83	0.84	1.30	1.36	1.60	1.32	1.17	1.78	1.22	0.92	0.58	0.47	
7	0.70	0.95	1.66	1.40	1.43	1.19	1.60	2.43	1.60	0.86	0.56	0.43	
8	0.66	1.30	1.09	1.22	1.45	1.22	1.91	2.31	1.87	0.82	0.56	0.53	
9	0.58	1.72	1.09	1.20	1.36	1.65	1.63	2.78	1.51	0.82	0.57	0.54	
10	0.55	1.43	1.08	1.25	1.26	1.51	1.98	2.14	1.35	0.79	0.55	0.52	
11	0.56	0.98	1.11	1.21	1.21	1.41	2.01	1.85	1.26	0.78	0.55	0.53	
12	0.53	0.83	1.41	1.35	1.15	1.33	1.67	1.72	1.25	0.76	0.52	0.50	
13	0.75	0.85	1.25	1.58	1.13	1.36	1.65	1.67	1.25	0.73	0.56	0.48	
14	0.74	1.23	1.11	1.53	1.11	1.32	1.65	1.76	1.16	0.72	0.63	0.46	
15	2.11	1.43	0.96	1.46	1.15	1.72	2.09	1.69	1.16	0.71	0.58	0.43	
16	2.19	1.42	0.94	1.77	1.23	1.56	2.08	1.61	1.11	0.72	0.56	0.49	
17	0.93	1.62	1.62	1.38	1.20	1.45	2.91	2.01	1.11	0.72	0.59	0.53	
18	0.83	1.30	1.78	1.15	1.30	2.00	3.59	2.33	1.10	0.70	0.61	0.49	
19	0.91	1.47	1.50	2.02	1.35	2.68	3.99	3.03	1.06	0.70	0.60	0.48	
20	1.79	1.88	1.28	2.21	1.26	1.91	4.19	2.15	1.08	0.71	0.58	0.46	
21	0.97	1.61	1.53	2.83	1.15	1.54	3.72	1.74	1.01	0.68	0.56	0.47	
22	0.97	1.59	1.81	3.15	1.09	1.39	3.06	1.59	1.01	0.66	0.56	0.44	
23	1.00	1.33	1.51	1.86	1.07	1.52	3.13	1.50	0.99	0.66	0.52	0.44	
24	0.83	1.15	1.28	1.54	1.06	1.84	2.54	1.42	0.95	0.64	0.51	0.42	
25	0.76	1.12	1.14	1.46	1.00	1.61	2.22	1.44	0.94	0.63	0.52	0.44	
26	0.72	1.06	1.05	1.45	1.05	1.39	2.15	1.37	0.91	0.62	0.50	0.42	
27	0.82	0.97	1.02	1.44	1.10	1.33	1.99	1.33	0.92	0.62	0.49	0.42	
28	0.95	0.91	1.00	1.46	1.13	1.27	2.99	1.27	0.94	0.62	0.49	0.42	
29	0.77	0.93	1.08	1.85	1.56	1.33	2.63	1.22	0.89	0.60		0.42	
30	1.07	0.92	1.16	2.52	1.28	1.29	2.00	1.24	0.88	0.59		0.45	
31		0.93		3.02	1.30		1.80		0.86	0.59		0.41	
MEAN	0.96	1.15	1.22	1.67	1.32	1.56	2.20	1.80	1.14	0.73	0.56	0.47	
MAX	2.19	1.88	1.81	3.15	2.30	2.68	4.19	3.03	1.87	0.93	0.63	0.54	4.19
MIN	0.53	0.69	0.94	1.10	1.00	1.19	1.06	1.22	0.86	0.59	0.49	0.41	0.41

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.21 M (A.D), AT 10.00 HOURS, ON OCT 20, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.25 M (A.D)

LEFT BANK ELEVATION — 6.70 M (A.D)

RIGHT BANK ELEVATION — 7.62 M (A.D), DRAINAGE AREA — 152 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.72	0.88	1.30	6.50	5.85	1.88	3.52	1.64	0.60	0.19	0.14	
2	5.60	0.68	1.00	2.48	3.84	3.92	1.51	3.52	1.64	0.74	0.19	0.08	
3	0.94	0.52	0.94	4.35	3.16	3.48	1.36	3.32	1.64	0.80	0.18	0.06	
4	0.48	0.42	1.18	2.32	2.12	2.92	1.18	3.72	1.84	0.78	0.18	0.08	
5	0.54	0.38	1.00	2.16	3.32	2.68	1.27	3.92	1.54	0.86	0.17	0.07	
6	0.66	0.68	2.00	2.24	3.20	2.08	1.51	3.92	1.68	0.84	0.17	0.07	
7	0.40	0.90	3.44	2.40	2.52	1.57	3.20	7.28	3.20	0.72	0.16	0.03	
8	0.32	2.00	1.27	1.68	2.60	1.68	4.55	6.56	4.35	0.64	0.16	0.13	
9	0.18	3.68	1.27	1.60	2.24	3.40	3.32	9.38	2.84	0.64	0.17	0.14	
10	0.15	2.52	1.24	1.80	1.84	2.84	4.90	5.70	2.20	0.58	0.15	0.12	
11	0.16	0.96	1.33	1.64	1.64	2.44	5.05	4.25	1.84	0.56	0.15	0.13	
12	0.13	0.66	2.44	2.20	1.45	2.12	3.48	3.68	1.80	0.52	0.12	0.10	
13	0.50	0.70	1.80	3.12	1.39	2.24	3.40	3.48	1.80	0.46	0.16	0.08	
14	0.48	1.72	1.33	2.92	1.33	2.08	3.40	3.84	1.48	0.44	0.26	0.06	
15	5.55	2.52	0.92	2.64	1.45	3.68	5.45	3.56	1.48	0.42	0.18	0.03	
16	5.95	2.48	0.88	3.88	1.72	3.04	5.40	3.24	1.33	0.44	0.16	0.09	
17	0.86	3.28	3.28	2.32	1.60	2.60	10.27	5.05	1.33	0.44	0.19	0.13	
18	0.66	2.00	3.92	1.45	2.00	5.00	15.03	6.68	1.30	0.40	0.22	0.09	
19	0.82	2.68	2.80	5.10	2.20	8.78	17.83	11.11	1.18	0.40	0.20	0.08	
20	3.96	4.40	1.92	6.05	1.84	4.55	19.23	5.75	1.24	0.42	0.18	0.06	
21	0.94	3.24	2.92	9.71	1.45	2.96	15.94	3.76	1.03	0.36	0.16	0.07	
22	0.94	3.16	4.05	11.95	1.27	2.36	11.32	3.16	1.03	0.32	0.16	0.04	
23	1.00	2.12	2.84	4.30	1.21	2.88	11.81	2.80	0.98	0.32	0.12	0.04	
24	0.66	1.45	1.92	2.96	1.18	4.20	7.94	2.48	0.90	0.28	0.11	0.02	
25	0.52	1.36	1.42	2.64	1.00	3.24	6.10	2.56	0.88	0.26	0.12	0.04	
26	0.44	1.18	1.15	2.60	1.15	2.36	5.75	2.28	0.82	0.24	0.10	0.02	
27	0.64	0.94	1.06	2.56	1.30	2.12	4.95	2.12	0.84	0.24	0.09	0.02	
28	0.90	0.82	1.00	2.64	1.39	1.88	10.83	1.88	0.88	0.24	0.09	0.02	
29	0.54	0.86	1.24	4.25	3.04	2.12	8.48	1.68	0.78	0.20		0.02	
30	1.21	0.84	1.48	7.82	1.92	1.96	5.00	1.76	0.76	0.19		0.05	
31		0.86		11.04	2.00		4.00		0.72	0.19		0.01	
TOTAL	36.57	50.73	53.92	116.12	65.87	93.03	205.34	125.96	46.97	14.54	4.50	2.12	815.67 CMSDAY
MEAN	1.22	1.64	1.80	3.75	2.12	3.10	6.62	4.20	1.52	0.47	0.16	0.07	2.23 CMS
MAX	5.95	4.40	4.05	11.95	6.50	8.78	19.23	11.11	4.35	0.86	0.26	0.14	19.23 CMS
MIN	0.13	0.38	0.88	1.30	1.00	1.57	1.18	1.68	0.72	0.19	0.09	0.01	0.01 CMS
RUNOFF	3.160	4.383	4.659	10.033	5.691	8.038	17.741	10.883	4.058	1.256	0.389	0.183	70.474 MCM

MOMENTARY PEAK 19.38 CMS, AT 4.21 M (A.D), AT 10.00 HOURS, ON OCT 20, 1978

RUNOFF YIELD 14.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 127.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — FAIRLY STABLE BY SOME SCOURING, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

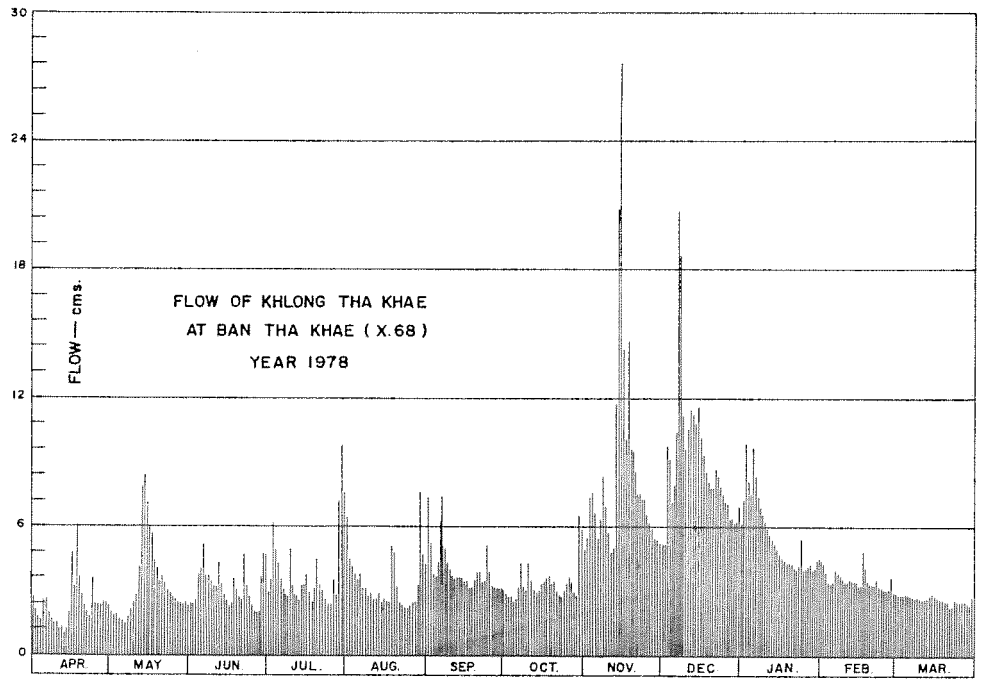
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 238 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.78	0.69	0.75	0.81	1.17	1.27	0.81	1.04	1.08	1.17	0.98	0.82	
2	0.68	0.67	0.75	0.88	0.99	1.08	0.80	1.10	1.07	1.46	0.97	0.83	
3	0.65	0.67	0.76	1.16	0.94	0.94	0.80	1.28	1.46	1.33	0.89	0.83	
4	0.64	0.64	0.93	1.03	0.91	0.91	0.77	1.30	1.40	1.31	0.88	0.83	
5	0.76	0.63	0.95	0.99	0.89	0.98	0.77	1.23	1.26	1.46	0.88	0.82	
6	0.77	0.61	1.06	0.89	0.92	1.28	0.84	1.08	1.51	1.36	0.94	0.82	
7	0.66	0.62	0.91	0.83	0.84	1.06	0.97	1.19	2.12	1.31	0.93	0.81	
8	0.64	0.67	0.91	0.81	0.85	1.04	0.86	1.35	2.01	1.26	0.92	0.81	
9	0.62	0.71	0.88	0.78	0.80	0.95	0.84	1.25	1.56	1.21	0.91	0.81	
10	0.63	0.75	0.86	1.05	0.79	0.93	0.97	1.12	1.45	1.17	0.88	0.80	
11	0.59	0.81	0.85	0.84	0.78	0.90	0.89	1.03	1.52	1.13	0.90	0.80	
12	0.58	0.94	0.98	0.80	0.77	0.91	0.84	1.06	1.58	1.10	0.90	0.79	
13	0.53	1.31	0.85	0.77	0.80	0.91	0.82	1.60	1.57	1.08	0.89	0.81	
14	0.59	1.35	0.80	0.86	0.76	0.90	0.83	2.12	1.54	1.06	0.88	0.82	
15	0.68	1.25	0.76	0.86	0.78	0.87	0.87	2.46	1.59	1.04	0.86	0.80	
16	1.02	1.16	0.73	0.92	0.77	0.89	0.89	1.75	1.51	1.03	0.87	0.80	
17	0.92	1.11	0.75	0.83	0.75	0.85	0.90	1.52	1.43	1.02	1.04	0.78	
18	1.16	0.98	0.89	0.76	1.06	0.85	0.92	1.78	1.38	0.99	0.93	0.78	
19	0.89	0.95	0.82	0.84	1.03	0.89	0.87	1.45	1.33	0.98	0.88	0.77	
20	0.77	0.88	0.79	1.00	0.84	0.93	0.88	1.44	1.31	0.97	0.87	0.77	
21	0.72	0.91	0.77	0.86	0.76	0.94	0.82	1.31	1.32	0.96	0.87	0.76	
22	0.68	0.87	1.01	0.81	0.74	0.88	0.80	1.29	1.37	0.95	0.89	0.76	
23	0.65	0.83	0.85	0.78	0.73	0.88	0.80	1.27	1.35	0.97	0.86	0.78	
24	0.90	0.81	0.80	0.75	0.73	1.06	0.83	1.27	1.31	1.08	0.85	0.77	
25	0.74	0.79	0.73	0.75	0.73	0.92	0.87	1.20	1.28	0.96	0.84	0.77	
26	0.75	0.77	0.71	0.74	0.76	0.86	0.90	1.16	1.25	0.96	0.84	0.77	
27	0.73	0.75	0.70	0.88	0.76	0.84	0.88	1.13	1.19	0.98	0.92	0.77	
28	0.75	0.75	0.70	0.80	0.86	0.85	0.82	1.09	1.19	0.95	0.83	0.75	
29	0.75	0.74	1.02	1.27	1.31	0.85	0.80	1.09	1.17	0.96		0.76	
30	0.73	0.75	1.02	1.48	1.02	0.84	1.21	1.07	1.19	1.00		0.74	
31		0.72		1.29	0.96		1.13		1.25	0.99		0.73	
MEAN	0.73	0.84	0.84	0.91	0.86	0.94	0.87	1.33	1.40	1.10	0.90	0.79	
MAX	1.16	1.35	1.06	1.48	1.31	1.28	1.21	2.46	2.12	1.46	1.04	0.83	2.46
MIN	0.53	0.61	0.70	0.74	0.73	0.84	0.77	1.03	1.07	0.95	0.83	0.73	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.73 M (A.D), AT 9.00 HOURS, ON NOV 15, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.69 M (A.D)
LEFT BANK ELEVATION 5.62 M (A.D)
RIGHT BANK ELEVATION 5.47 M (A.D), DRAINAGE AREA 298 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.56	1.93	2.35	2.78	6.10	7.24	2.78	4.80	5.20	6.10	4.22	2.86	
2	1.86	1.79	2.35	3.34	4.31	5.20	2.70	5.40	5.10	9.68	4.13	2.94	
3	1.65	1.79	2.42	6.00	3.86	3.86	2.70	7.36	9.68	7.99	3.42	2.94	
4	1.58	1.58	3.77	4.70	3.59	3.59	2.49	7.60	8.90	7.73	3.34	2.94	
5	2.42	1.51	3.95	4.31	3.42	4.22	2.49	6.76	7.12	9.68	3.34	2.86	
6	2.49	1.37	5.00	3.42	3.68	7.36	3.02	5.20	10.35	8.38	3.86	2.86	
7	1.72	1.44	3.59	2.94	3.02	5.00	4.13	6.30	20.68	7.73	3.77	2.78	
8	1.58	1.79	3.59	2.78	3.10	4.80	3.18	8.25	18.59	7.12	3.68	2.78	
9	1.44	2.07	3.34	2.56	2.70	3.95	3.02	7.00	11.10	6.52	3.59	2.78	
10	1.51	2.35	3.18	4.90	2.63	3.77	4.13	5.60	9.55	6.10	3.34	2.70	
11	1.25	2.78	3.10	3.02	2.56	3.50	3.42	4.70	10.50	5.70	3.50	2.70	
12	1.20	3.86	4.22	2.70	2.49	3.59	3.02	5.00	11.40	5.40	3.50	2.63	
13	0.95	7.73	3.10	2.49	2.70	3.59	2.86	11.70	11.25	5.20	3.42	2.78	
14	1.25	8.25	2.70	3.18	2.42	3.50	2.94	20.68	10.80	5.00	3.34	2.86	
15	1.86	7.00	2.42	3.18	2.56	3.26	3.26	27.62	11.55	4.80	3.18	2.70	
16	4.60	6.00	2.21	3.68	2.49	3.42	3.42	14.05	10.35	4.70	3.26	2.70	
17	3.68	5.50	2.35	2.94	2.35	3.10	3.50	10.50	9.29	4.60	4.80	2.56	
18	6.00	4.22	3.42	2.42	5.00	3.10	3.68	14.56	8.64	4.31	3.77	2.56	
19	3.42	3.95	2.86	3.02	4.70	3.42	3.26	9.55	7.99	4.22	3.34	2.49	
20	2.49	3.34	2.63	4.40	3.02	3.77	3.34	9.42	7.73	4.13	3.26	2.49	
21	2.14	3.59	2.49	3.18	2.42	3.86	2.86	7.73	7.86	4.04	3.26	2.42	
22	1.86	3.26	4.50	2.78	2.28	3.34	2.70	7.48	8.51	3.95	3.42	2.42	
23	1.65	2.94	3.10	2.56	2.21	3.34	2.70	7.24	8.25	4.13	3.18	2.56	
24	3.50	2.78	2.70	2.35	2.21	5.00	2.94	7.24	7.73	5.20	3.10	2.49	
25	2.28	2.63	2.21	2.35	2.21	3.68	3.26	6.40	7.36	4.04	3.02	2.49	
26	2.35	2.49	2.07	2.28	2.42	3.18	3.50	6.00	7.00	4.04	3.02	2.49	
27	2.21	2.35	2.00	3.34	2.42	3.02	3.34	5.70	6.30	4.22	3.68	2.49	
28	2.35	2.35	2.00	2.70	3.18	3.10	2.86	5.30	6.30	3.95	2.94	2.35	
29	2.35	2.28	4.60	7.24	7.73	3.10	2.70	5.30	6.10	4.04		2.42	
30	2.21	2.35	4.60	9.94	4.60	3.02	6.52	5.10	6.30	4.40		2.28	
31		2.14		7.48	4.04		5.70		7.00	4.31		2.21	
TOTAL	68.41	99.41	92.82	114.96	102.42	117.88	102.42	255.54	284.48	171.41	97.68	81.53	1588.96 CMSDAY
MEAN	2.28	3.21	3.09	3.71	3.30	3.93	3.30	8.52	9.18	5.53	3.49	2.63	4.35 CMS
MAX	6.00	8.25	5.00	9.94	7.73	7.36	6.52	27.62	20.68	9.68	4.80	2.94	27.62 CMS
MIN	0.95	1.37	2.00	2.28	2.21	3.02	2.49	4.70	5.10	3.95	2.94	2.21	0.95 CMS
RUNOFF	5.911	8.589	8.020	9.933	8.849	10.185	8.849	22.079	24.579	14.810	8.440	7.044	137.286 MCM

MOMENTARY PEAK 33.98 CMS, AT 2.73 M (A.D), AT 9.00 HOURS, ON NOV 15, 1978

RUNOFF YIELD 14.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 114.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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.

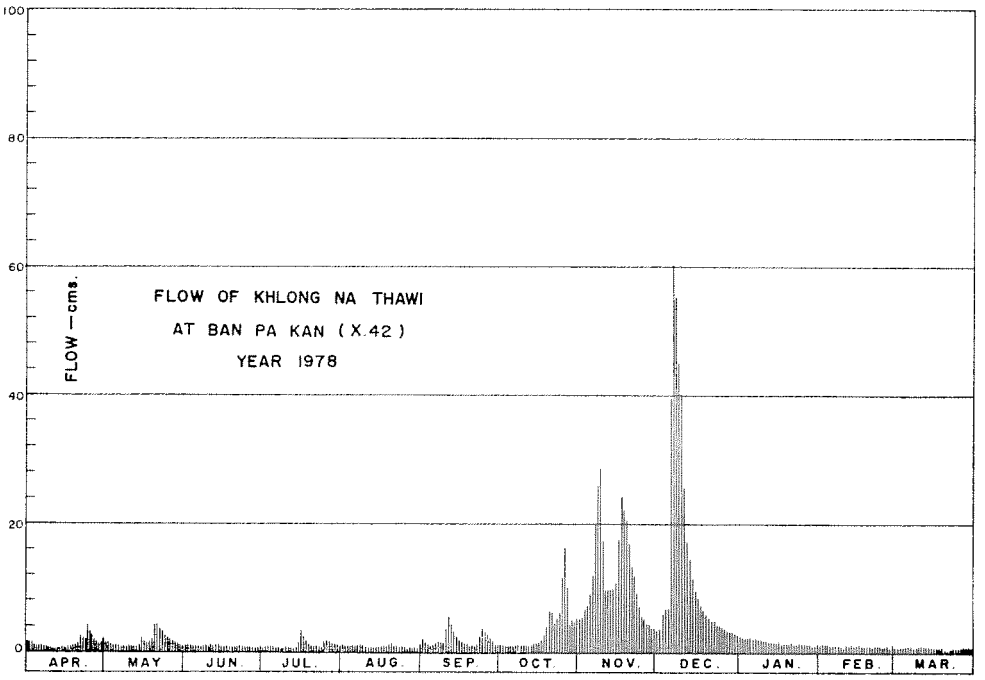
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE IN 1977.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	0.83	0.66	0.49	0.66	1.00	0.71	1.70	1.30	1.09	0.63	0.49	
2	0.74	0.77	0.63	0.53	0.62	0.87	0.67	1.79	1.35	1.08	0.62	0.49	
3	0.62	0.68	0.60	0.56	0.60	0.75	0.65	1.98	1.82	1.07	0.61	0.48	
4	0.54	0.64	0.59	0.58	0.69	0.68	0.62	2.02	2.07	1.05	0.60	0.47	
5	0.52	0.60	0.60	0.52	0.66	0.78	0.61	2.27	1.85	1.07	0.59	0.52	
6	0.62	0.59	0.58	0.49	0.64	0.87	0.59	2.46	3.10	1.03	0.60	0.50	
7	0.57	0.57	0.56	0.46	0.61	0.88	0.62	3.41	6.66	0.99	0.59	0.48	
8	0.50	0.59	0.54	0.45	0.56	0.82	0.63	4.03	6.23	0.95	0.60	0.48	
9	0.45	0.58	0.59	0.45	0.52	0.89	0.61	4.20	5.26	0.91	0.58	0.48	
10	0.43	0.57	0.64	0.44	0.50	1.35	0.62	3.18	4.43	0.89	0.57	0.53	
11	0.41	0.55	0.62	0.44	0.48	1.75	0.68	2.33	3.69	0.86	0.56	0.48	
12	0.40	0.58	0.65	0.45	0.49	1.45	0.68	2.30	3.07	0.84	0.55	0.45	
13	0.39	0.67	0.67	0.43	0.48	1.28	0.70	2.40	2.70	0.82	0.53	0.44	
14	0.42	0.77	0.62	0.49	0.48	1.09	0.77	2.41	2.45	0.81	0.54	0.43	
15	0.46	1.01	0.57	0.98	0.52	0.96	0.82	2.43	2.31	0.78	0.53	0.43	
16	0.49	0.87	0.54	1.32	0.63	0.90	0.87	3.29	2.17	0.77	0.54	0.43	
17	0.51	0.77	0.52	1.17	0.66	0.83	0.97	3.83	2.01	0.75	0.54	0.44	
18	0.59	0.88	0.52	0.90	0.63	0.78	1.21	3.74	1.88	0.74	0.54	0.45	
19	0.63	1.00	0.55	0.76	0.80	0.72	1.17	3.39	1.77	0.73	0.54	0.44	
20	0.85	1.55	0.54	0.69	0.79	0.68	1.91	3.19	1.67	0.71	0.54	0.43	
21	1.15	1.49	0.55	0.65	0.69	0.69	1.87	2.84	1.61	0.70	0.54	0.43	
22	1.01	1.33	0.55	0.58	0.61	0.78	1.56	2.51	1.53	0.68	0.53	0.42	
23	0.95	1.30	0.52	0.58	0.56	1.02	1.73	2.19	1.44	0.67	0.50	0.40	
24	1.45	1.15	0.49	0.67	0.52	1.42	1.86	1.94	1.40	0.73	0.50	0.39	
25	1.25	0.98	0.48	0.94	0.49	1.22	2.72	1.77	1.35	0.75	0.49	0.38	
26	1.08	0.97	0.46	0.90	0.48	1.14	3.10	1.63	1.28	0.71	0.53	0.38	
27	0.96	0.89	0.44	0.87	0.51	1.06	2.19	1.53	1.27	0.68	0.57	0.37	
28	0.86	0.81	0.49	0.76	0.48	0.95	1.73	1.44	1.23	0.67	0.50	0.36	
29	0.77	0.74	0.55	0.71	0.47	0.84	1.55	1.36	1.19	0.66		0.36	
30	0.99	0.72	0.51	0.73	0.58	0.77	1.59	1.31	1.16	0.65		0.35	
31		0.70		0.74	0.77		1.70		1.11	0.64		0.35	
MEAN	0.72	0.84	0.56	0.67	0.59	0.97	1.22	2.50	2.33	0.82	0.56	0.44	
MAX	1.45	1.55	0.67	1.32	0.80	1.75	3.10	4.20	6.66	1.09	0.63	0.53	6.66
MIN	0.39	0.55	0.44	0.43	0.47	0.68	0.59	1.31	1.11	0.64	0.49	0.35	0.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.80 M. (A.D), AT 7.00 HOURS, ON DEC 7, 1978
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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.68	1.50	1.12	0.78	1.12	2.10	1.22	5.40	3.40	2.46	1.06	0.78	
2	1.28	1.34	1.06	0.86	1.04	1.64	1.14	5.94	3.65	2.42	1.04	0.78	
3	1.04	1.16	1.00	0.92	1.00	1.30	1.10	7.16	6.12	2.38	1.02	0.76	
4	0.88	1.08	0.98	0.96	1.18	1.16	1.04	7.44	7.79	2.30	1.00	0.74	
5	0.84	1.00	1.00	0.84	1.12	1.36	1.02	9.36	6.30	2.38	0.98	0.84	
6	1.04	0.98	0.96	0.78	1.08	1.64	0.98	10.88	16.40	2.22	1.00	0.80	
7	0.94	0.94	0.92	0.72	1.02	1.68	1.04	19.51	60.41	2.06	0.98	0.76	
8	0.80	0.98	0.88	0.70	0.92	1.47	1.06	26.33	54.60	1.92	1.00	0.76	
9	0.70	0.96	0.98	0.70	0.84	1.71	1.02	28.30	41.88	1.78	0.96	0.76	
10	0.66	0.94	1.08	0.68	0.80	3.65	1.04	17.20	31.09	1.71	0.94	0.86	
11	0.62	0.90	1.04	0.68	0.76	5.70	1.16	9.84	22.59	1.61	0.92	0.76	
12	0.60	0.96	1.10	0.70	0.78	4.15	1.16	9.60	16.10	1.54	0.90	0.70	
13	0.58	1.14	1.14	0.66	0.76	3.30	1.20	10.40	12.80	1.47	0.86	0.68	
14	0.64	1.34	1.04	0.78	0.76	2.46	1.34	10.48	10.80	1.43	0.88	0.66	
15	0.72	2.14	0.94	2.03	0.84	1.96	1.47	10.64	9.68	1.36	0.86	0.66	
16	0.78	1.64	0.88	3.50	1.06	1.75	1.64	18.30	8.56	1.34	0.88	0.66	
17	0.82	1.34	0.84	2.78	1.12	1.50	1.99	24.13	7.37	1.30	0.88	0.68	
18	0.98	1.68	0.84	1.75	1.06	1.36	2.95	23.14	6.48	1.28	0.88	0.70	
19	1.06	2.10	0.90	1.32	1.40	1.24	2.78	19.30	5.82	1.26	0.88	0.68	
20	1.57	4.65	0.88	1.18	1.38	1.16	6.67	17.30	5.25	1.22	0.88	0.66	
21	2.70	4.35	0.90	1.10	1.18	1.18	6.42	13.92	4.95	1.20	0.88	0.66	
22	2.14	3.55	0.90	0.96	1.02	1.36	4.70	11.28	4.55	1.16	0.86	0.64	
23	1.92	3.40	0.84	0.96	0.92	2.18	5.58	8.72	4.10	1.14	0.80	0.60	
24	4.15	2.70	0.78	1.14	0.84	4.00	6.36	6.88	3.90	1.26	0.80	0.58	
25	3.15	2.03	0.76	1.89	0.78	3.00	12.96	5.82	3.65	1.30	0.78	0.56	
26	2.42	1.99	0.72	1.75	0.76	2.66	16.40	5.05	3.30	1.22	0.86	0.56	
27	1.96	1.71	0.68	1.64	0.82	2.34	8.72	4.55	3.25	1.16	0.94	0.54	
28	1.61	1.43	0.78	1.32	0.76	1.92	5.58	4.10	3.05	1.14	0.80	0.52	
29	1.34	1.28	0.90	1.22	0.74	1.54	4.65	3.70	2.86	1.12		0.52	
30	2.06	1.24	0.82	1.26	0.96	1.34	4.85	3.45	2.74	1.10		0.50	
31		1.20		1.28	1.34		5.40		2.54	1.08		0.50	
TOTAL	41.68	53.65	27.66	37.84	30.16	63.81	114.64	358.12	375.98	48.32	25.52	20.86	1198.24 CMSDAY
MEAN	1.39	1.73	0.92	1.22	0.97	2.13	3.70	11.94	12.13	1.56	0.91	0.67	3.28 CMS
MAX	4.15	4.65	1.14	3.50	1.40	5.70	16.40	28.30	60.41	2.46	1.06	0.86	60.41 CMS
MIN	0.58	0.90	0.68	0.66	0.74	1.16	0.98	3.45	2.54	1.08	0.78	0.50	0.50 CMS
RUNOFF	3.601	4.635	2.390	3.269	2.606	5.513	9.905	30.942	32.485	4.175	2.205	1.802	103.528 MCM

MOMENTARY PEAK 62.30 CMS, AT 6.80 M (A.D), AT 7.00 HOURS, ON DEC 7, 1978

RUNOFF YIELD 7.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 140.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

KHLONG U TAPHAO AT HAT YAI, SONGKHLA (X.44)

LOCATION — LAT. 7°-00'-02" N., LONG. 100°-27'-32" E., ON LEFT BANK UPSTREAM SIDE OF THE CONCRETE BRIDGE OF PHATTHALUNG-HAT YAI HIGHWAY, AMPHOE HAT YAI, SONGKHLA.

DRAINAGE AREA — 1,740 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

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

BENCH MARK — B.M.-H.S.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +6.582 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1972

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 132 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

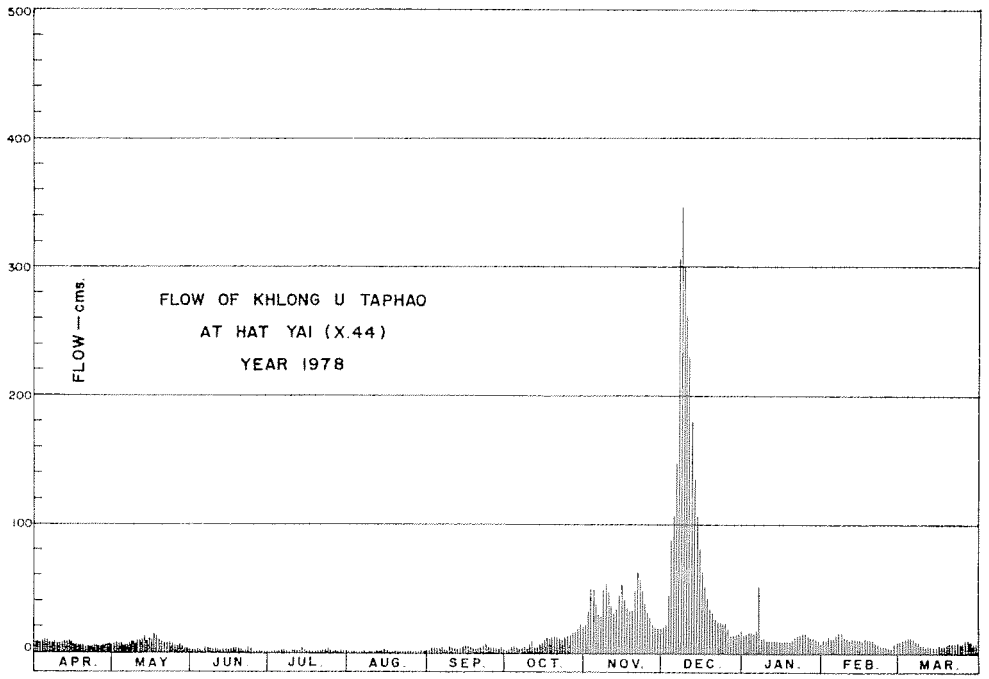
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.00	0.95	0.73	0.52	0.67	0.69	0.71	1.53	1.43	1.24	1.05	1.05	
2	1.00	0.97	0.74	0.63	0.69	0.74	0.75	1.89	1.55	1.29	1.11	1.05	
3	1.01	0.93	0.75	0.73	0.70	0.81	0.86	2.18	2.29	1.33	1.23	1.16	
4	1.06	0.92	0.74	0.68	0.75	0.82	0.92	2.16	3.15	1.30	1.13	1.15	
5	1.08	0.91	0.76	0.69	0.70	0.79	0.83	1.91	3.39	1.27	1.16	1.15	
6	0.97	0.90	0.74	0.73	0.68	0.80	0.80	1.68	3.51	1.29	1.31	1.10	
7	0.97	0.96	0.75	0.76	0.64	0.73	0.86	1.64	6.49	2.23	1.34	1.01	
8	1.00	1.04	0.77	0.71	0.68	0.81	0.91	2.23	6.87	1.13	1.27	0.97	
9	0.98	0.99	0.79	0.65	0.75	0.92	0.83	2.30	6.27	1.08	1.20	0.92	
10	1.00	1.04	0.77	0.70	0.62	0.83	0.84	2.09	5.76	1.05	1.12	0.89	
11	0.99	1.06	0.71	0.72	0.55	0.81	1.06	1.87	5.25	1.01	1.09	0.89	
12	1.03	1.08	0.71	0.77	0.49	0.79	0.86	1.75	4.56	1.05	1.13	0.87	
13	1.05	1.17	0.71	0.71	0.58	0.90	0.86	1.86	3.90	1.04	1.08	0.83	
14	0.96	1.06	0.73	0.83	0.78	0.94	0.98	2.13	3.23	1.04	1.05	0.85	
15	0.96	1.10	0.74	0.77	0.74	0.96	0.99	2.25	2.78	1.06	1.04	0.86	
16	0.92	1.09	0.73	0.72	0.59	0.87	1.14	2.00	2.50	1.06	1.08	0.89	
17	0.94	1.19	0.77	0.79	0.61	0.86	1.20	1.82	2.23	1.03	1.18	0.88	
18	0.88	1.03	0.75	0.71	0.77	0.85	1.18	1.79	2.01	1.02	1.10	0.91	
19	0.86	1.05	0.78	0.64	0.73	0.82	1.26	1.81	1.81	1.04	1.02	1.00	
20	0.86	1.06	0.80	0.63	0.77	0.88	1.23	2.15	1.71	1.11	0.96	0.96	
21	0.86	0.98	0.72	0.72	0.77	0.88	1.20	2.45	1.60	1.19	0.92	0.93	
22	0.86	0.98	0.75	0.80	0.73	0.90	1.16	2.35	1.51	1.22	0.91	0.98	
23	0.90	0.98	0.86	0.78	0.67	0.98	1.13	2.10	1.52	1.27	0.88	1.01	
24	0.86	0.93	0.82	0.83	0.68	0.88	1.24	1.89	1.51	1.27	0.85	0.94	
25	0.89	0.89	0.74	0.79	0.68	0.78	1.26	1.73	1.47	1.24	0.84	1.00	
26	0.89	0.96	0.72	0.79	0.57	0.81	1.28	1.58	1.30	1.18	0.83	1.05	
27	0.95	0.96	0.68	0.72	0.59	0.77	1.36	1.44	1.25	1.13	0.85	1.02	
28	0.89	0.83	0.67	0.65	0.60	0.80	1.34	1.38	1.26	1.11	1.03	1.01	
29	0.89	0.79	0.69	0.74	0.60	0.84	1.39	1.39	1.27	1.08		0.96	
30	0.92	0.77	0.69	0.60	0.63	0.72	1.55	1.41	1.31	1.03		0.98	
31		0.74		0.61	0.64		1.44		1.32	1.01		0.97	
MEAN	0.95	0.98	0.74	0.71	0.67	0.83	1.08	1.89	2.77	1.17	1.06	0.98	
MAX	1.08	1.19	0.86	0.83	0.78	0.98	1.55	2.45	6.87	2.23	1.34	1.16	6.87
MIN	0.86	0.74	0.67	0.52	0.49	0.69	0.71	1.38	1.25	1.01	0.83	0.83	0.49

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.10 M (A.D), AT 18.00 HOURS, ON DEC 7, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -2.49 M (A.D)

LEFT BANK ELEVATION 7.18 M (A.D)

RIGHT BANK ELEVATION 7.99 M (A.D), DRAINAGE AREA 1740 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.00	6.75	2.10	0.00	1.05	1.35	1.70	24.05	20.55	14.20	9.25	9.25	
2	8.00	7.25	2.30	0.45	1.35	2.30	2.50	37.60	24.75	15.70	10.75	9.25	
3	8.25	6.25	2.50	2.10	1.50	3.70	4.70	49.60	54.55	17.05	13.90	12.00	
4	9.50	6.00	2.30	1.20	2.50	3.90	6.00	48.70	97.75	16.00	11.25	11.75	
5	10.00	5.75	2.70	1.35	1.50	3.30	4.10	38.40	110.95	15.10	12.00	11.75	
6	7.25	5.50	2.30	2.10	1.20	3.50	3.50	29.30	117.60	15.70	16.35	10.50	
7	7.25	7.00	2.50	2.70	0.60	2.10	4.70	27.90	316.25	51.85	17.40	8.25	
8	8.00	9.00	2.90	1.70	1.20	3.70	5.75	51.85	345.60	11.25	15.10	7.25	
9	7.50	7.75	3.30	0.75	2.50	6.00	4.10	55.00	299.75	10.00	13.00	6.00	
10	8.00	9.00	2.90	1.50	0.30	4.10	4.30	45.60	263.20	9.25	11.00	5.30	
11	7.75	9.50	1.70	1.90	0.00	3.70	9.50	36.80	227.50	8.25	10.25	5.30	
12	8.75	10.00	1.70	2.90	0.00	3.30	4.70	32.00	180.90	9.25	11.25	4.90	
13	9.25	12.25	1.70	1.70	0.00	5.50	4.70	36.40	141.00	9.00	10.00	4.10	
14	7.00	9.50	2.10	4.10	3.10	6.50	7.50	47.35	102.15	9.00	9.25	4.50	
15	7.00	10.50	2.30	2.90	2.30	7.00	7.75	52.75	79.00	9.50	9.00	4.70	
16	6.00	10.25	2.10	1.90	0.00	4.90	11.50	42.00	65.00	9.50	10.00	5.30	
17	6.50	12.75	2.90	3.30	0.15	4.70	13.00	34.80	51.85	8.75	12.50	5.10	
18	5.10	8.75	2.50	1.70	2.90	4.50	12.50	33.60	42.40	8.50	10.50	5.75	
19	4.70	9.25	3.10	0.60	2.10	3.90	14.80	34.40	34.40	9.00	8.50	8.00	
20	4.70	9.50	3.50	0.45	2.90	5.10	13.90	48.25	30.40	10.75	7.00	7.00	
21	4.70	7.50	1.90	1.90	2.90	5.10	13.00	62.50	26.50	12.75	6.00	6.25	
22	4.70	7.50	2.50	3.50	2.10	5.50	12.00	57.50	23.35	13.60	5.75	7.50	
23	5.50	7.50	4.70	3.10	1.05	7.50	11.25	46.00	23.70	15.10	5.10	8.25	
24	4.70	6.25	3.90	4.10	1.20	5.10	14.20	37.60	23.35	15.10	4.50	6.50	
25	5.30	5.30	2.30	3.30	1.20	3.10	14.80	31.20	21.95	14.20	4.30	8.00	
26	5.30	7.00	1.90	3.30	0.00	3.70	15.40	25.80	16.00	12.50	4.10	9.25	
27	6.75	7.00	1.20	1.90	0.00	2.90	18.10	20.90	14.50	11.25	4.50	8.50	
28	5.30	4.10	1.05	0.75	0.00	3.50	17.40	18.80	14.80	10.75	8.75	8.25	
29	5.30	3.30	1.35	2.30	0.00	4.30	19.15	19.15	15.10	10.00		7.00	
30	6.00	2.90	1.35	0.00	0.45	1.90	24.75	19.85	16.35	8.75		7.50	
31		2.30		0.15	0.60		20.90		16.70	8.25		7.25	
TOTAL	202.05	233.15	71.55	59.60	36.65	125.65	322.15	1145.65	2817.85	399.85	271.25	230.20	5915.59 CMSDAY
MEAN	6.73	7.52	2.38	1.92	1.18	4.19	10.39	38.19	90.90	12.90	9.69	7.43	16.21 CMS
MAX	10.00	12.75	4.70	4.10	3.10	7.50	24.75	62.50	345.60	51.85	17.40	12.00	345.60 CMS
MIN	4.70	2.30	1.05	0.00	0.00	1.35	1.70	18.80	14.50	8.25	4.10	4.10	0.00 CMS
RUNOFF	17.457	20.144	6.182	5.149	3.167	10.856	27.834	98.984	243.462	34.547	23.436	19.889	511.107 MCM

MOMENTARY PEAK 364.00 CMS, AT 7.10 M (A.D), AT 18.00 HOURS, ON DEC 7, 1978

RUNOFF YIELD 9.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 209.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — RATHER UNSTABLE BECAUSE OF BACKWATER EFFECT, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 280 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, 1978 TO MARCH 31, 1979

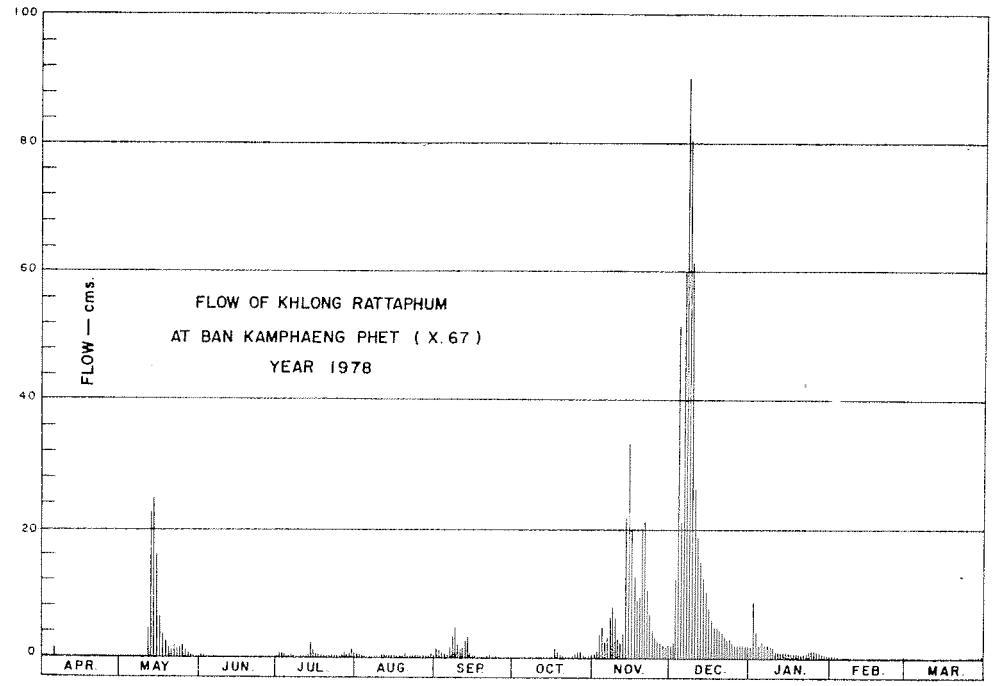
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.20	-0.30	-0.21	-0.26	-0.12	0.07	-0.28	-0.08	0.17	0.21	-0.09	-0.30	
2	-0.30	-0.31	-0.14	-0.09	-0.20	0.08	-0.29	-0.05	0.30	0.75	-0.11	-0.31	
3	-0.39	-0.39	-0.27	-0.17	-0.23	-0.03	-0.28	0.37	1.86	0.38	-0.10	-0.32	
4	-0.24	-0.25	-0.26	-0.24	-0.24	-0.12	-0.27	0.46	2.65	0.23	-0.14	-0.30	
5	0.11	-0.39	-0.28	-0.19	-0.24	-0.16	-0.22	0.25	1.46	0.33	-0.16	-0.29	
6	-0.31	-0.40	-0.26	-0.18	-0.18	-0.11	-0.28	0.31	2.65	0.26	-0.17	-0.21	
7	-0.39	-0.39	-0.24	-0.25	-0.19	0.23	-0.23	0.52	3.81	0.22	-0.09	-0.23	
8	-0.39	-0.40	-0.27	-0.22	-0.20	0.40	-0.22	0.70	3.57	0.19	-0.07	-0.23	
9	-0.38	-0.39	-0.27	-0.24	-0.22	0.26	-0.23	0.57	2.50	0.16	-0.13	-0.21	
10	-0.38	-0.27	-0.28	-0.26	-0.21	0.12	-0.23	0.31	1.68	0.15	-0.20	-0.23	
11	-0.40	-0.23	-0.27	-0.20	-0.06	0.12	-0.22	0.18	1.33	0.12	-0.25	-0.18	
12	-0.38	0.39	-0.26	-0.21	-0.12	0.20	-0.27	0.37	1.15	0.09	-0.24	-0.09	
13	-0.36	1.48	-0.27	-0.23	-0.18	0.32	-0.29	1.06	1.02	0.08	-0.26	-0.10	
14	-0.18	1.60	-0.27	0.19	-0.10	0.06	-0.22	1.98	0.94	0.07	-0.28	-0.15	
15	-0.26	1.22	-0.28	0.06	-0.11	-0.07	-0.19	1.57	1.05	0.05	-0.30	-0.13	
16	-0.34	0.47	-0.28	-0.08	-0.09	-0.16	-0.12	1.18	0.89	0.04	-0.19	-0.11	
17	-0.38	0.40	-0.28	-0.13	-0.18	-0.21	0.13	0.76	0.75	0.02	-0.16	-0.13	
18	-0.24	0.32	-0.28	-0.17	-0.20	-0.25	-0.06	0.79	0.65	-0.01	-0.15	-0.12	
19	-0.22	0.17	-0.26	-0.19	-0.10	-0.28	-0.15	1.42	0.59	-0.02	-0.20	-0.11	
20	-0.32	0.11	-0.27	-0.19	-0.03	-0.26	-0.25	1.43	0.52	-0.04	-0.17	-0.10	
21	-0.09	0.08	-0.26	-0.17	-0.16	-0.20	-0.25	1.00	0.47	-0.04	-0.19	-0.13	
22	-0.22	0.13	-0.23	-0.15	-0.21	-0.18	-0.26	0.69	0.44	-0.04	-0.22	-0.13	
23	-0.37	0.07	-0.26	-0.18	-0.26	-0.26	-0.28	0.51	0.40	0.02	-0.21	-0.13	
24	-0.40	0.07	-0.25	-0.19	-0.29	-0.24	-0.27	0.39	0.36	0.05	-0.22	-0.15	
25	-0.38	0.12	-0.27	-0.18	-0.27	-0.25	-0.15	0.34	0.33	0.05	-0.24	-0.15	
26	-0.18	0.06	-0.29	-0.18	-0.19	-0.30	-0.04	0.27	0.29	0.01	-0.25	-0.14	
27	-0.27	-0.04	-0.29	-0.08	-0.23	-0.33	-0.03	0.22	0.27	-0.03	-0.33	-0.13	
28	-0.38	-0.06	-0.23	-0.12	-0.22	-0.28	-0.17	0.18	0.26	-0.04	-0.20	-0.19	
29	-0.29	-0.15	-0.23	-0.10	-0.18	-0.30	-0.26	0.15	0.24	-0.05		-0.20	
30	-0.19	-0.18	-0.25	0.10	-0.05	-0.22	-0.25	0.18	0.22	-0.07		-0.15	
31		-0.25		-0.02	-0.08		0.11		0.21	-0.07		-0.21	
MEAN	-0.29	0.07	-0.26	-0.15	-0.17	-0.08	-0.19	0.60	1.07	0.10	-0.19	-0.18	
MAX	0.11	1.60	-0.14	0.19	-0.03	0.40	0.13	1.98	3.81	0.75	-0.07	-0.09	3.81
MIN	-0.40	-0.40	-0.29	-0.26	-0.29	-0.33	-0.29	-0.08	0.17	-0.07	-0.33	-0.32	-0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.85 M (A.D.), AT 15.00 HOURS, ON DEC 7, 1978

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

LEFT BANK ELEVATION — 5.53 M (A.D.)

RIGHT BANK ELEVATION — 5.58 M (A.D.), DRAINAGE AREA — 272 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.00	0.18	0.08	0.36	1.42	0.04	0.52	2.09	2.39	0.46	0.00	
2	0.00	0.00	0.32	0.46	0.20	1.48	0.02	0.70	3.20	8.85	0.38	0.00	
3	0.00	0.00	0.06	0.26	0.14	0.82	0.04	3.97	30.54	4.08	0.40	0.00	
4	0.12	0.10	0.08	0.12	0.12	0.36	0.06	4.96	51.95	2.57	0.32	0.00	
5	1.67	0.00	0.04	0.22	0.12	0.28	0.16	2.75	21.66	3.53	0.28	0.02	
6	0.00	0.00	0.08	0.24	0.24	0.38	0.04	3.31	51.95	2.84	0.26	0.18	
7	0.00	0.00	0.12	0.10	0.22	2.57	0.14	5.66	90.15	2.48	0.46	0.14	
8	0.00	0.00	0.06	0.16	0.20	4.30	0.16	8.10	81.98	2.23	0.58	0.14	
9	0.00	0.00	0.06	0.12	0.16	2.84	0.14	6.31	47.50	2.02	0.34	0.18	
10	0.00	0.06	0.04	0.08	0.18	1.74	0.14	3.31	26.36	1.95	0.20	0.14	
11	0.00	0.14	0.06	0.20	0.64	1.74	0.16	2.16	19.00	1.74	0.10	0.24	
12	0.00	4.19	0.08	0.18	0.36	2.30	0.06	3.97	15.55	1.54	0.12	0.46	
13	0.00	22.08	0.06	0.14	0.24	3.42	0.02	13.92	13.24	1.48	0.08	0.40	
14	0.24	24.60	0.06	2.23	0.40	1.36	0.16	33.50	11.88	1.42	0.04	0.30	
15	0.08	16.88	0.04	1.36	0.38	0.58	0.22	23.97	13.75	1.30	0.00	0.34	
16	0.00	5.07	0.04	0.52	0.46	0.28	0.36	16.12	11.04	1.24	0.22	0.38	
17	0.00	4.30	0.04	0.34	0.24	0.18	1.81	9.00	8.85	1.12	0.28	0.34	
18	0.12	3.42	0.04	0.26	0.20	0.10	0.64	9.45	7.40	0.94	0.30	0.36	
19	0.16	2.09	0.08	0.22	0.40	0.04	0.30	20.82	6.57	0.88	0.20	0.38	
20	0.00	1.67	0.06	0.22	0.62	0.08	0.10	21.03	5.66	0.76	0.26	0.40	
21	0.46	1.48	0.08	0.26	0.28	0.20	0.10	12.90	5.07	0.76	0.22	0.34	
22	0.16	1.61	0.14	0.30	0.18	0.24	0.08	7.96	4.74	0.76	0.16	0.34	
23	0.00	1.42	0.08	0.24	0.08	0.08	0.04	5.53	4.30	1.12	0.18	0.34	
24	0.00	1.42	0.10	0.22	0.02	0.12	0.06	4.19	3.86	1.30	0.16	0.30	
25	0.00	1.74	0.06	0.24	0.06	0.10	0.30	3.64	3.53	1.30	0.12	0.30	
26	0.24	1.36	0.02	0.24	0.22	0.00	0.76	2.93	3.11	1.06	0.10	0.32	
27	0.06	0.76	0.02	0.52	0.14	0.00	0.82	2.48	2.93	0.82	0.00	0.34	
28	0.00	0.64	0.14	0.36	0.16	0.04	0.26	2.16	2.84	0.76	0.20	0.22	
29	0.02	0.30	0.14	0.40	0.24	0.00	0.08	1.95	2.66	0.70		0.20	
30	0.22	0.24	0.10	1.60	0.70	0.16	0.10	2.16	2.48	0.58		0.30	
31		0.10		0.88	0.52		1.67		2.39	0.58		0.18	
TOTAL	3.75	95.87	2.48	12.77	8.68	27.21	9.04	239.43	558.23	55.10	6.42	7.58	1026.56 CMSDAY
MEAN	0.12	3.09	0.08	0.41	0.28	0.91	0.29	7.98	18.01	1.78	0.23	0.24	2.81 CMS
MAX	1.67	24.60	0.32	2.23	0.82	4.30	1.81	33.50	90.15	8.85	0.58	0.46	90.15 CMS
MIN	0.00	0.00	0.02	0.08	0.02	0.00	0.02	0.52	2.09	0.58	0.00	0.00	0.00 CMS
RUNOFF	0.324	8.283	0.214	1.103	0.750	2.351	0.781	20.687	48.231	4.761	0.555	0.655	88.695 MCM

MOMENTARY PEAK 91.55 CMS, AT 3.85 M (A.D), AT 15.00 HOURS, ON DEC 7, 1978

RUNOFF YIELD 10.34 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 336.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

LOCATION — ON LEFT BANK ABOUT 300 METERS FROM THE BRIDGE.

ELEVATION — +4.229 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1972

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1972

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 269 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

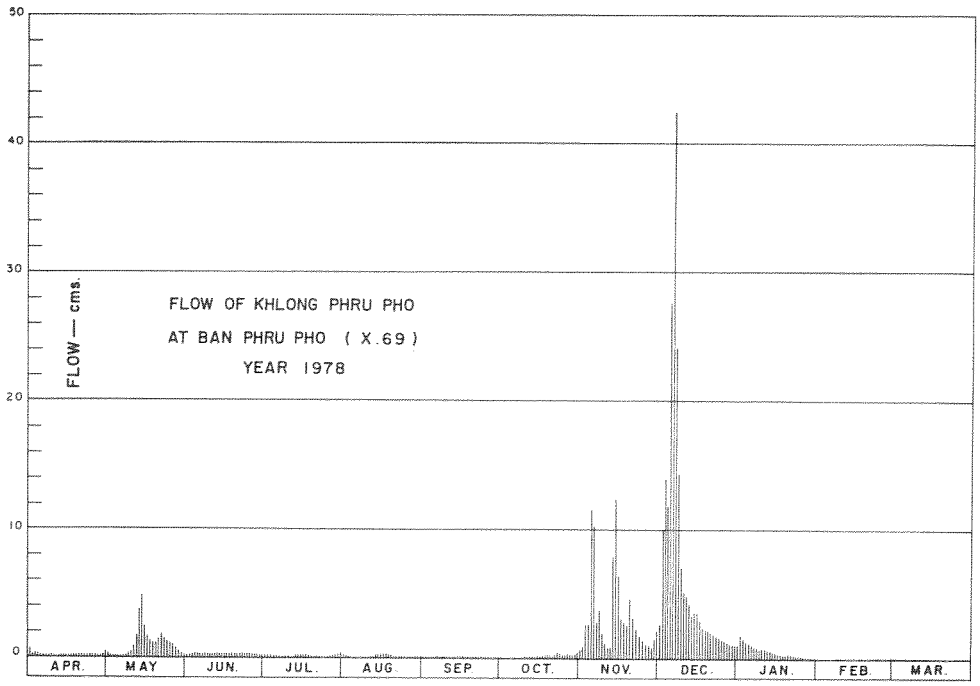
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.69	0.65	0.61	0.55	0.58	0.54	0.50	0.68	0.99	0.78	0.31	0.45	
2	0.56	0.58	0.60	0.55	0.56	0.56	0.50	0.79	1.09	0.94	0.31	0.42	
3	0.56	0.56	0.61	0.50	0.53	0.56	0.48	1.07	2.05	0.87	0.31	0.40	
4	0.56	0.55	0.61	0.49	0.50	0.55	0.47	1.07	1.92	0.86	0.31	0.40	
5	0.55	0.55	0.61	0.49	0.50	0.55	0.46	1.89	2.38	0.84	0.31	0.40	
6	0.54	0.53	0.60	0.49	0.52	0.54	0.49	1.81	2.92	0.79	0.29	0.40	
7	0.53	0.53	0.59	0.53	0.52	0.52	0.50	1.08	3.24	0.78	0.31	0.40	
8	0.52	0.54	0.59	0.52	0.50	0.53	0.51	1.20	2.28	0.77	0.30	0.40	
9	0.51	0.57	0.59	0.51	0.49	0.55	0.51	0.99	1.73	0.74	0.28	0.40	
10	0.50	0.63	0.58	0.49	0.49	0.55	0.52	0.85	1.50	0.73	0.30	0.41	
11	0.50	0.69	0.59	0.49	0.55	0.55	0.49	0.77	1.35	0.71	0.34	0.45	
12	0.50	0.87	0.59	0.49	0.55	0.55	0.49	0.73	1.32	0.69	0.55	0.45	
13	0.50	1.21	0.59	0.50	0.55	0.59	0.48	1.41	1.24	0.67	0.51	0.44	
14	0.50	1.33	0.59	0.54	0.55	0.59	0.51	1.95	1.16	0.67	0.51	0.44	
15	0.49	1.15	0.59	0.59	0.59	0.57	0.51	1.62	1.19	0.65	0.51	0.46	
16	0.48	1.03	0.58	0.59	0.57	0.55	0.50	1.34	1.19	0.63	0.51	0.46	
17	0.48	0.95	0.57	0.57	0.54	0.54	0.55	1.12	1.10	0.63	0.51	0.36	
18	0.50	0.88	0.57	0.56	0.53	0.54	0.60	1.08	1.04	0.62	0.54	0.35	
19	0.54	0.85	0.56	0.56	0.53	0.53	0.62	1.06	1.01	0.61	0.52	0.35	
20	0.55	0.84	0.56	0.54	0.53	0.53	0.58	1.30	1.00	0.62	0.49	0.35	
21	0.56	0.86	0.56	0.52	0.51	0.53	0.58	1.17	0.98	0.63	0.42	0.37	
22	0.54	0.96	0.55	0.54	0.50	0.53	0.64	1.06	0.96	0.64	0.41	0.37	
23	0.52	0.89	0.55	0.55	0.53	0.53	0.68	0.97	0.94	0.67	0.44	0.37	
24	0.53	0.83	0.55	0.53	0.52	0.53	0.63	0.92	0.92	0.68	0.47	0.37	
25	0.56	0.82	0.55	0.53	0.51	0.52	0.61	0.88	0.89	0.67	0.47	0.40	
26	0.55	0.80	0.54	0.52	0.53	0.51	0.63	0.85	0.86	0.63	0.48	0.38	
27	0.53	0.70	0.55	0.53	0.53	0.51	0.63	0.81	0.84	0.61	0.48	0.39	
28	0.55	0.63	0.55	0.54	0.54	0.51	0.61	0.80	0.83	0.59	0.43	0.37	
29	0.55	0.62	0.55	0.55	0.53	0.51	0.61	0.77	0.81	0.58		0.33	
30	0.63	0.61	0.55	0.59	0.53	0.50	0.64	0.93	0.81	0.45		0.31	
31		0.60		0.63	0.55		0.71		0.80	0.34		0.32	
MEAN	0.54	0.77	0.58	0.53	0.53	0.54	0.56	1.10	1.33	0.68	0.41	0.39	
MAX	0.69	1.33	0.61	0.63	0.59	0.59	0.71	1.95	3.24	0.94	0.55	0.46	3.24
MIN	0.48	0.53	0.54	0.49	0.49	0.50	0.46	0.68	0.80	0.34	0.28	0.31	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.53 M (A.D), AT 1.00 HOURS, ON DEC 7, 1978

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)

LEFT BANK ELEVATION 6.36 M (A.D)

RIGHT BANK ELEVATION 6.62 M (A.D), DRAINAGE AREA 88 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.66	0.50	0.34	0.20	0.26	0.18	0.10	0.62	2.14	1.02	0.00	0.05	
2	0.22	0.26	0.30	0.20	0.22	0.22	0.10	1.06	2.83	1.84	0.00	0.02	
3	0.22	0.22	0.34	0.10	0.16	0.22	0.08	2.69	14.00	1.45	0.00	0.00	
4	0.22	0.20	0.34	0.09	0.10	0.20	0.07	2.69	12.00	1.40	0.00	0.00	
5	0.20	0.20	0.34	0.09	0.10	0.20	0.06	11.55	19.46	1.30	0.00	0.00	
6	0.18	0.16	0.30	0.09	0.14	0.18	0.09	10.35	30.86	1.06	0.00	0.00	
7	0.16	0.16	0.28	0.16	0.14	0.14	0.10	2.76	42.52	1.02	0.00	0.00	
8	0.14	0.18	0.28	0.14	0.10	0.16	0.12	3.70	17.76	0.98	0.00	0.00	
9	0.12	0.24	0.28	0.12	0.09	0.20	0.12	2.14	9.29	0.86	0.00	0.00	
10	0.10	0.42	0.26	0.09	0.09	0.20	0.14	1.35	6.50	0.82	0.00	0.01	
11	0.10	0.66	0.28	0.09	0.20	0.20	0.09	0.98	5.05	0.74	0.00	0.05	
12	0.10	1.45	0.28	0.09	0.20	0.20	0.09	0.82	4.78	0.66	0.20	0.05	
13	0.10	3.79	0.28	0.10	0.20	0.28	0.08	5.60	4.06	0.58	0.12	0.04	
14	0.10	4.87	0.28	0.18	0.20	0.28	0.12	12.45	3.38	0.58	0.12	0.04	
15	0.09	3.30	0.28	0.28	0.28	0.24	0.12	7.86	3.62	0.50	0.12	0.06	
16	0.08	2.41	0.26	0.28	0.24	0.20	0.10	4.96	3.62	0.42	0.12	0.06	
17	0.08	1.90	0.24	0.24	0.18	0.18	0.20	3.06	2.90	0.42	0.12	0.00	
18	0.10	1.50	0.24	0.22	0.16	0.18	0.30	2.76	2.48	0.38	0.18	0.00	
19	0.18	1.35	0.22	0.22	0.16	0.16	0.38	2.62	2.27	0.34	0.14	0.00	
20	0.20	1.30	0.22	0.18	0.16	0.16	0.26	4.60	2.20	0.38	0.09	0.00	
21	0.22	1.40	0.22	0.14	0.12	0.16	0.26	3.46	2.08	0.42	0.02	0.00	
22	0.18	1.96	0.20	0.18	0.10	0.16	0.46	2.62	1.96	0.46	0.01	0.00	
23	0.14	1.55	0.20	0.20	0.16	0.16	0.62	2.02	1.84	0.58	0.04	0.00	
24	0.16	1.25	0.20	0.16	0.14	0.16	0.42	1.72	1.72	0.62	0.07	0.00	
25	0.22	1.20	0.20	0.16	0.12	0.14	0.34	1.50	1.55	0.58	0.07	0.00	
26	0.20	1.10	0.18	0.14	0.16	0.12	0.42	1.35	1.40	0.42	0.08	0.00	
27	0.16	0.70	0.20	0.16	0.16	0.12	0.42	1.15	1.30	0.34	0.08	0.00	
28	0.20	0.42	0.20	0.18	0.18	0.12	0.34	1.10	1.25	0.28	0.03	0.00	
29	0.20	0.38	0.20	0.20	0.16	0.12	0.34	0.98	1.15	0.26		0.00	
30	0.42	0.34	0.20	0.28	0.16	0.10	0.46	1.78	1.15	0.05		0.00	
31		0.30		0.42	0.20		0.74		1.10	0.00		0.00	
TOTAL	5.45	35.67	7.64	5.38	5.04	5.34	7.54	102.30	208.22	20.76	1.61	0.38	405.33 CMSDAY
MEAN	0.18	1.15	0.25	0.17	0.16	0.18	0.24	3.41	6.72	0.67	0.06	0.01	1.11 CMS
MAX	0.66	4.87	0.34	0.42	0.28	0.28	0.74	12.45	42.52	1.84	0.20	0.06	42.52 CMS
MIN	0.08	0.16	0.18	0.09	0.09	0.10	0.06	0.62	1.10	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.471	3.082	0.660	0.465	0.435	0.461	0.651	8.839	17.990	1.794	0.139	0.033	35.020 MCM

MOMENTARY PEAK 61.41 CMS, AT 3.53 M (A.O), AT 1.00 HOURS, ON DEC 7, 1978

RUNOFF YIELD 12.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 697.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

KHLONG TAM 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.-H.S.

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 — 1967-1972

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1972

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

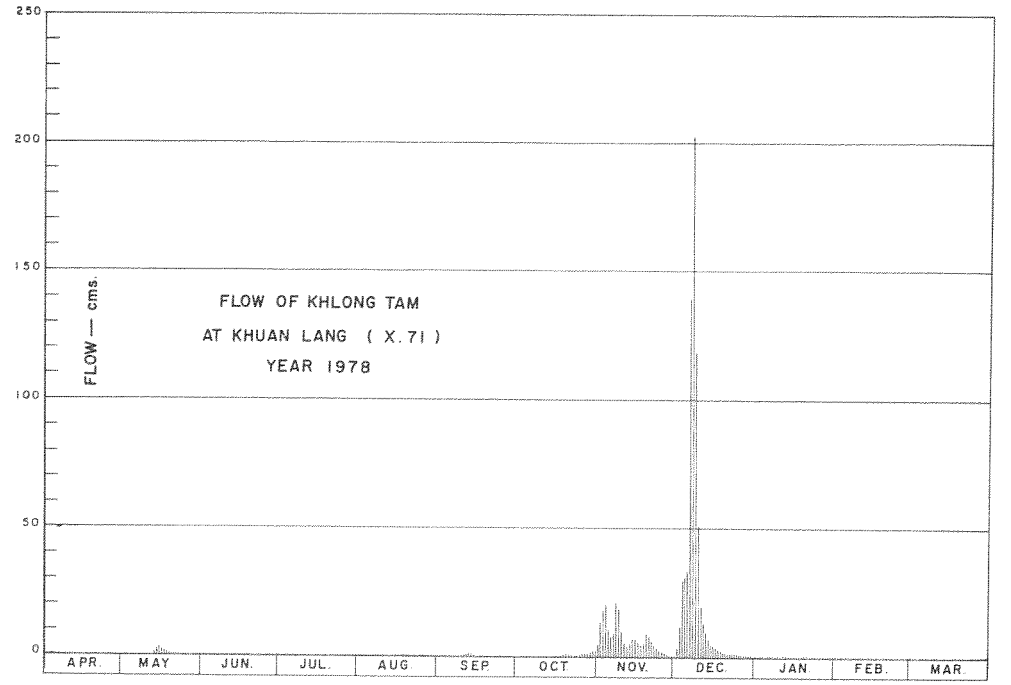
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 153 DISCHARGE MEASUREMENTS MADE DURING 1967-1971.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.36	1.40	1.42	1.35	1.59	1.43	1.38	2.44	1.91	1.80	1.43	1.43	
2	1.36	1.40	1.42	1.36	1.60	1.42	1.37	4.12	2.42	1.79	1.42	1.44	
3	1.35	1.39	1.41	1.36	1.59	1.45	1.37	4.66	4.05	1.79	1.44	1.44	
4	1.36	1.40	1.41	1.33	1.57	1.51	1.36	4.92	5.73	1.83	1.43	1.45	
5	1.37	1.38	1.42	1.34	1.54	1.55	1.36	4.18	5.84	1.83	1.44	1.44	
6	1.45	1.38	1.42	1.36	1.49	1.54	1.38	3.40	5.93	1.89	1.45	1.43	
7	1.41	1.38	1.42	1.36	1.47	1.81	1.42	3.55	7.30	1.84	1.44	1.44	
8	1.37	1.39	1.42	1.34	1.46	1.87	1.40	5.01	7.19	1.80	1.47	1.44	
9	1.34	1.38	1.41	1.36	1.44	1.80	1.38	4.74	6.63	1.76	1.42	1.47	
10	1.34	1.38	1.39	1.40	1.41	1.76	1.38	3.96	5.68	1.76	1.42	1.47	
11	1.36	1.39	1.38	1.40	1.40	1.81	1.38	3.18	4.97	1.77	1.42	1.46	
12	1.35	1.38	1.40	1.38	1.41	2.00	1.37	2.80	4.21	1.71	1.41	1.45	
13	1.34	1.42	1.41	1.37	1.40	1.95	1.42	2.84	3.60	1.65	1.42	1.44	
14	1.37	2.06	1.41	1.38	1.41	1.87	1.57	3.20	3.08	1.59	1.42	1.38	
15	1.38	2.55	1.40	1.55	1.43	1.77	1.56	3.35	2.87	1.57	1.43	1.36	
16	1.39	2.53	1.37	1.50	1.45	1.69	1.50	3.15	2.71	1.54	1.41	1.38	
17	1.42	2.14	1.39	1.49	1.50	1.65	1.47	2.86	2.53	1.54	1.41	1.41	
18	1.47	2.09	1.44	1.51	1.54	1.58	1.65	2.86	2.44	1.53	1.43	1.42	
19	1.46	1.87	1.48	1.49	1.55	1.55	1.80	3.04	2.34	1.53	1.42	1.43	
20	1.46	1.78	1.55	1.49	1.54	1.51	1.92	3.55	2.25	1.50	1.40	1.42	
21	1.42	1.75	1.49	1.45	1.52	1.46	1.91	3.54	2.13	1.50	1.41	1.41	
22	1.40	1.61	1.46	1.44	1.52	1.44	1.75	3.21	2.14	1.50	1.41	1.39	
23	1.39	1.54	1.43	1.42	1.51	1.47	1.72	2.76	2.08	1.53	1.45	1.38	
24	1.39	1.56	1.38	1.45	1.49	1.50	1.69	2.58	2.06	1.54	1.44	1.38	
25	1.38	1.64	1.38	1.47	1.48	1.52	1.75	2.35	2.02	1.53	1.43	1.37	
26	1.37	1.69	1.36	1.47	1.46	1.51	2.08	2.15	1.96	1.50	1.43	1.39	
27	1.39	1.61	1.37	1.49	1.44	1.50	2.06	2.04	1.94	1.49	1.44	1.37	
28	1.42	1.55	1.36	1.47	1.42	1.45	2.03	1.96	1.92	1.51	1.44	1.36	
29	1.41	1.51	1.36	1.47	1.41	1.42	1.96	1.86	1.92	1.50		1.36	
30	1.38	1.47	1.36	1.54	1.41	1.39	2.04	1.84	1.87	1.46		1.37	
31		1.43		1.57	1.42		2.30		1.83	1.46		1.37	
MEAN	1.39	1.63	1.41	1.43	1.48	1.61	1.64	3.20	3.40	1.63	1.43	1.41	
MAX	1.47	2.55	1.55	1.57	1.60	2.00	2.30	5.01	7.30	1.89	1.47	1.47	7.30
MIN	1.34	1.38	1.36	1.33	1.40	1.39	1.36	1.84	1.83	1.46	1.40	1.36	1.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.64 M (A.D), AT 15.00 HOURS, ON DEC 7, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.81 M (A.D)
LEFT BANK ELEVATION 8.85 M (A.D)
RIGHT BANK ELEVATION 9.10 M (A.D), DRAINAGE AREA 127 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.10	0.12	0.05	0.29	0.13	0.08	2.96	1.03	0.70	0.13	0.13	
2	0.06	0.10	0.12	0.06	0.30	0.12	0.07	13.26	2.88	0.67	0.12	0.14	
3	0.05	0.09	0.11	0.06	0.29	0.15	0.07	18.04	12.70	0.67	0.14	0.14	
4	0.06	0.10	0.11	0.03	0.27	0.21	0.06	20.50	31.01	0.79	0.13	0.15	
5	0.07	0.08	0.12	0.04	0.24	0.25	0.06	13.74	32.92	0.79	0.14	0.14	
6	0.15	0.08	0.12	0.06	0.19	0.24	0.08	8.00	34.66	0.97	0.15	0.13	
7	0.11	0.08	0.12	0.06	0.17	0.73	0.12	9.05	203.00	0.82	0.14	0.14	
8	0.07	0.09	0.12	0.04	0.16	0.91	0.10	21.41	169.30	0.70	0.17	0.14	
9	0.04	0.08	0.11	0.06	0.14	0.70	0.08	18.76	64.00	0.58	0.12	0.17	
10	0.04	0.08	0.09	0.10	0.11	0.58	0.08	11.98	30.18	0.58	0.12	0.17	
11	0.06	0.09	0.08	0.10	0.10	0.73	0.08	6.66	21.00	0.61	0.12	0.16	
12	0.05	0.08	0.10	0.08	0.11	1.30	0.07	4.60	13.99	0.43	0.11	0.15	
13	0.04	0.12	0.11	0.07	0.10	1.15	0.12	4.80	9.40	0.35	0.12	0.14	
14	0.07	1.48	0.11	0.08	0.11	0.91	0.27	6.80	6.08	0.29	0.12	0.08	
15	0.08	3.40	0.10	0.25	0.13	0.61	0.26	7.70	4.95	0.27	0.13	0.06	
16	0.09	3.32	0.07	0.20	0.15	0.39	0.20	6.50	4.15	0.24	0.11	0.08	
17	0.12	1.76	0.09	0.19	0.20	0.35	0.17	4.90	3.32	0.24	0.11	0.11	
18	0.17	1.57	0.14	0.21	0.24	0.28	0.35	4.90	2.96	0.23	0.13	0.12	
19	0.16	0.91	0.18	0.19	0.25	0.25	0.70	5.84	2.56	0.23	0.12	0.13	
20	0.16	0.64	0.25	0.19	0.24	0.21	1.06	9.05	2.20	0.20	0.10	0.12	
21	0.12	0.55	0.19	0.15	0.22	0.16	1.03	8.98	1.72	0.20	0.11	0.11	
22	0.10	0.31	0.16	0.14	0.22	0.14	0.55	6.86	1.76	0.20	0.11	0.09	
23	0.09	0.24	0.13	0.12	0.21	0.17	0.46	4.40	1.54	0.23	0.15	0.08	
24	0.09	0.26	0.08	0.15	0.19	0.20	0.39	3.52	1.48	0.24	0.14	0.08	
25	0.08	0.34	0.08	0.17	0.18	0.22	0.55	2.60	1.36	0.23	0.13	0.07	
26	0.07	0.39	0.06	0.17	0.16	0.21	1.54	1.80	1.18	0.20	0.13	0.09	
27	0.09	0.31	0.07	0.19	0.14	0.20	1.48	1.42	1.12	0.19	0.14	0.07	
28	0.12	0.25	0.06	0.17	0.12	0.15	1.39	1.18	1.06	0.21	0.14	0.06	
29	0.11	0.21	0.06	0.17	0.11	0.12	1.18	0.88	1.06	0.20		0.06	
30	0.08	0.17	0.06	0.24	0.11	0.09	1.42	0.82	0.91	0.16		0.07	
31		0.13		0.27	0.12		2.40		0.79	0.16		0.07	
TOTAL	2.66	17.41	3.32	4.06	5.57	11.86	16.47	231.93	666.27	12.58	3.58	3.45	979.16 CMSDAY
MEAN	0.09	0.56	0.11	0.13	0.18	0.40	0.53	7.73	21.49	0.41	0.13	0.11	2.68 CMS
MAX	0.17	3.40	0.25	0.27	0.30	1.30	2.40	21.41	203.00	0.97	0.17	0.17	203.00 CMS
MIN	0.04	0.08	0.06	0.03	0.10	0.09	0.06	0.82	0.79	0.16	0.10	0.06	0.03 CMS
RUNOFF	0.230	1.504	0.287	0.351	0.481	1.025	1.423	20.039	57.566	1.087	0.309	0.298	84.599 MCM

MOMENTARY PEAK 365.20 CMS, AT 7.64 M (A.D), AT 15.00 HOURS, ON DEC 7, 1978
RUNOFF YIELD 21.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2875.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — 5-7 TIME DAILY READINGS AT 03.00, 06.00, 09.00, 12.00, 15.00, 18.00 AND 21.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5-7 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 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 176 DISCHARGE MEASUREMENTS MADE DURING 1971-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

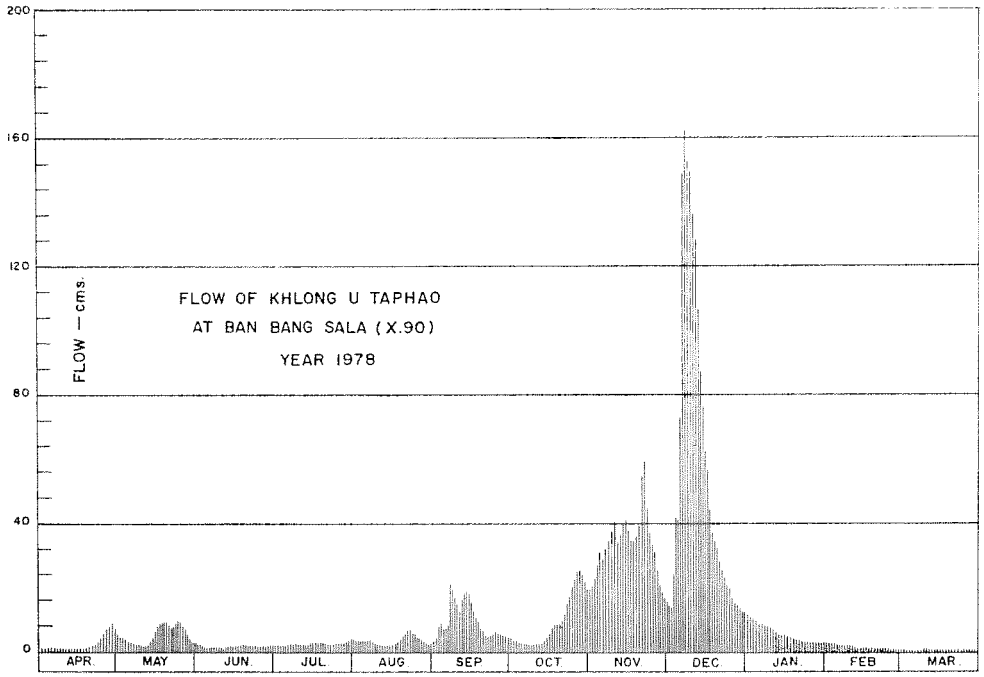
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	1.18	0.96	0.86	1.13	0.99	1.17	2.31	1.98	1.74	1.00	0.73	
2	0.66	1.19	0.90	0.88	1.11	1.14	1.13	2.36	1.92	1.70	0.98	0.72	
3	0.65	1.14	0.86	0.89	1.09	1.43	1.09	2.43	2.53	1.64	0.98	0.72	
4	0.64	1.09	0.84	0.90	1.08	1.49	1.03	2.69	3.49	1.61	0.92	0.71	
5	0.62	1.04	0.83	0.90	1.09	1.39	0.98	2.90	3.45	1.56	0.88	0.71	
6	0.61	0.99	0.83	0.93	1.09	1.36	0.96	2.78	4.89	1.53	0.86	0.70	
7	0.60	0.95	0.84	0.93	1.09	1.49	0.95	3.01	7.63	1.52	0.86	0.70	
8	0.60	0.92	0.85	0.95	1.02	2.34	0.94	3.17	8.10	1.50	0.85	0.71	
9	0.60	0.90	0.84	0.95	0.99	2.14	0.92	3.42	7.78	1.46	0.86	0.73	
10	0.62	0.87	0.83	0.95	0.91	1.98	0.90	3.50	7.68	1.41	0.86	0.76	
11	0.62	0.85	0.82	0.94	0.89	1.82	0.93	3.36	7.23	1.38	0.85	0.72	
12	0.62	0.85	0.83	0.94	0.87	2.02	0.93	3.16	6.96	1.34	0.83	0.73	
13	0.61	0.94	0.85	0.93	0.86	2.17	0.92	3.29	6.17	1.31	0.82	0.73	
14	0.62	1.06	0.85	0.92	0.89	2.24	1.00	3.68	5.47	1.28	0.81	0.72	
15	0.65	1.24	0.86	0.98	0.90	2.16	1.24	3.62	5.00	1.25	0.80	0.71	
16	0.65	1.42	0.85	1.00	0.91	1.98	1.31	3.44	4.38	1.22	0.79	0.69	
17	0.64	1.50	0.87	0.98	0.96	1.72	1.41	3.20	3.96	1.20	0.79	0.69	
18	0.67	1.56	0.90	0.98	1.01	1.62	1.51	3.18	3.63	1.17	0.78	0.67	
19	0.69	1.56	0.89	0.97	1.11	1.48	1.52	3.32	3.30	1.14	0.78	0.66	
20	0.74	1.55	0.88	0.96	1.21	1.37	1.55	3.50	3.15	1.10	0.78	0.71	
21	0.83	1.45	0.87	0.95	1.26	1.29	1.61	4.08	2.86	1.07	0.78	0.73	
22	0.92	1.42	0.86	0.94	1.39	1.19	1.75	4.27	2.64	1.07	0.76	0.71	
23	0.91	1.53	0.85	0.93	1.33	1.22	1.94	3.95	2.48	1.06	0.76	0.70	
24	1.13	1.60	0.86	0.92	1.25	1.25	2.14	3.61	2.36	1.05	0.75	0.70	
25	1.26	1.56	0.86	0.96	1.28	1.30	2.34	3.15	2.28	1.05	0.74	0.70	
26	1.37	1.50	0.85	0.96	1.18	1.32	2.46	2.96	2.09	1.05	0.74	0.70	
27	1.40	1.38	0.85	0.97	1.08	1.29	2.60	2.72	1.99	1.05	0.74	0.68	
28	1.60	1.26	0.86	0.98	1.03	1.26	2.60	2.38	1.94	1.04	0.73	0.66	
29	1.49	1.14	0.85	1.00	0.99	1.23	2.50	2.20	1.89	1.03		0.64	
30	1.37	1.04	0.86	1.07	0.93	1.20	2.39	2.08	1.83	1.03		0.62	
31		1.00		1.14	0.91		2.29		1.80	1.01		0.61	
MEAN	0.83	1.22	0.86	0.95	1.06	1.56	1.52	3.12	3.96	1.28	0.82	0.70	
MAX	1.60	1.60	0.96	1.14	1.39	2.34	2.60	4.27	8.10	1.74	1.00	0.76	8.10
MIN	0.52	0.85	0.82	0.86	0.86	0.99	0.90	2.08	1.80	1.01	0.73	0.61	0.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.65 M (A.D), AT 18.00 HOURS, ON DEC 7, 1978

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 1562 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	4.40	2.48	1.68	3.90	2.72	4.30	19.77	14.72	11.36	2.80	0.78	
2	0.36	4.50	2.00	1.84	3.70	4.00	3.90	20.62	13.88	10.80	2.64	0.72	
3	0.30	4.00	1.68	1.92	3.52	7.36	3.52	21.81	23.54	9.96	2.64	0.72	
4	0.24	3.52	1.52	2.00	3.44	8.08	3.04	26.42	42.00	9.54	2.16	0.66	
5	0.12	3.12	1.44	2.00	3.52	6.88	2.64	30.20	41.20	8.92	1.84	0.66	
6	0.06	2.72	1.44	2.24	3.52	6.52	2.48	28.04	73.26	8.56	1.68	0.60	
7	0.00	2.40	1.52	2.24	3.52	8.08	2.40	32.40	148.10	8.44	1.68	0.60	
8	0.00	2.16	1.60	2.40	2.96	20.28	2.32	35.60	162.30	8.20	1.60	0.66	
9	0.00	2.00	1.52	2.40	2.72	17.04	2.16	40.60	152.60	7.72	1.68	0.78	
10	0.12	1.76	1.44	2.40	2.08	14.72	2.00	42.20	149.60	7.12	1.68	0.96	
11	0.12	1.60	1.36	2.32	1.92	12.48	2.24	39.40	136.10	6.76	1.60	0.72	
12	0.12	1.60	1.44	2.32	1.76	15.28	2.24	35.40	128.00	6.28	1.44	0.78	
13	0.06	2.32	1.60	2.24	1.68	17.52	2.16	38.00	105.56	5.92	1.36	0.78	
14	0.12	3.28	1.60	2.16	1.92	18.64	2.80	45.80	87.75	5.56	1.28	0.72	
15	0.30	5.08	1.68	2.64	2.00	17.36	5.08	44.60	76.00	5.20	1.20	0.66	
16	0.30	7.24	1.60	2.80	2.08	14.72	5.92	41.00	61.24	4.84	1.14	0.54	
17	0.24	8.20	1.76	2.64	2.48	11.08	7.12	36.20	51.72	4.60	1.14	0.54	
18	0.42	8.92	2.00	2.64	2.88	9.68	8.32	35.80	44.80	4.30	1.08	0.42	
19	0.54	8.92	1.92	2.56	3.70	7.96	8.44	38.60	38.20	4.00	1.08	0.36	
20	0.84	8.80	1.84	2.48	4.72	6.64	8.80	42.20	35.20	3.60	1.08	0.66	
21	1.44	7.60	1.76	2.40	5.32	5.68	9.54	54.36	29.48	3.36	1.08	0.78	
22	2.16	7.24	1.68	2.32	6.88	4.50	11.50	58.71	25.52	3.36	0.96	0.66	
23	2.08	8.56	1.60	2.24	6.16	4.84	14.16	51.50	22.66	3.28	0.96	0.60	
24	3.90	9.40	1.68	2.16	5.20	5.20	17.04	44.40	20.62	3.20	0.90	0.60	
25	5.32	8.92	1.68	2.48	5.56	5.80	20.28	35.20	19.28	3.20	0.84	0.60	
26	6.64	8.20	1.60	2.48	4.40	6.04	22.32	31.40	16.26	3.20	0.84	0.60	
27	7.00	6.76	1.60	2.56	3.44	5.68	24.80	26.96	14.86	3.20	0.84	0.48	
28	9.40	5.32	1.68	2.64	3.04	5.32	24.80	20.96	14.16	3.12	0.78	0.36	
29	8.08	4.00	1.60	2.80	2.72	4.96	23.00	18.00	13.46	3.04		0.24	
30	6.64	3.12	1.68	3.36	2.24	4.60	21.13	16.12	12.62	3.04		0.12	
31		2.80		4.00	2.08		19.44		12.20	2.88		0.06	
TOTAL	56.92	158.46	50.00	75.36	105.06	279.66	289.89	1052.27	1786.89	176.56	40.00	18.42	4089.48 CMSDAY
MEAN	1.90	5.11	1.67	2.43	3.39	9.32	9.35	35.08	57.64	5.70	1.43	0.59	11.20 CMS
MAX	9.40	9.40	2.48	4.00	6.88	20.28	24.80	58.71	162.30	11.36	2.80	0.96	162.30 CMS
MIN	0.00	1.60	1.36	1.68	1.68	2.72	2.00	16.12	12.20	2.88	0.78	0.06	0.00 CMS
RUNOFF	4.918	13.691	4.320	6.511	9.077	24.163	25.046	90.916	154.387	15.255	3.456	1.591	353.331 MCM

MOMENTARY PEAK 179.80 CMS, AT 8.65 M (A.D), AT 18.00 HOURS, ON DEC 7, 1978

RUNOFF YIELD 7.17 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 115.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +14.00 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 2.006 DISCHARGE MEASUREMENTS MADE DURING 1966-1975.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

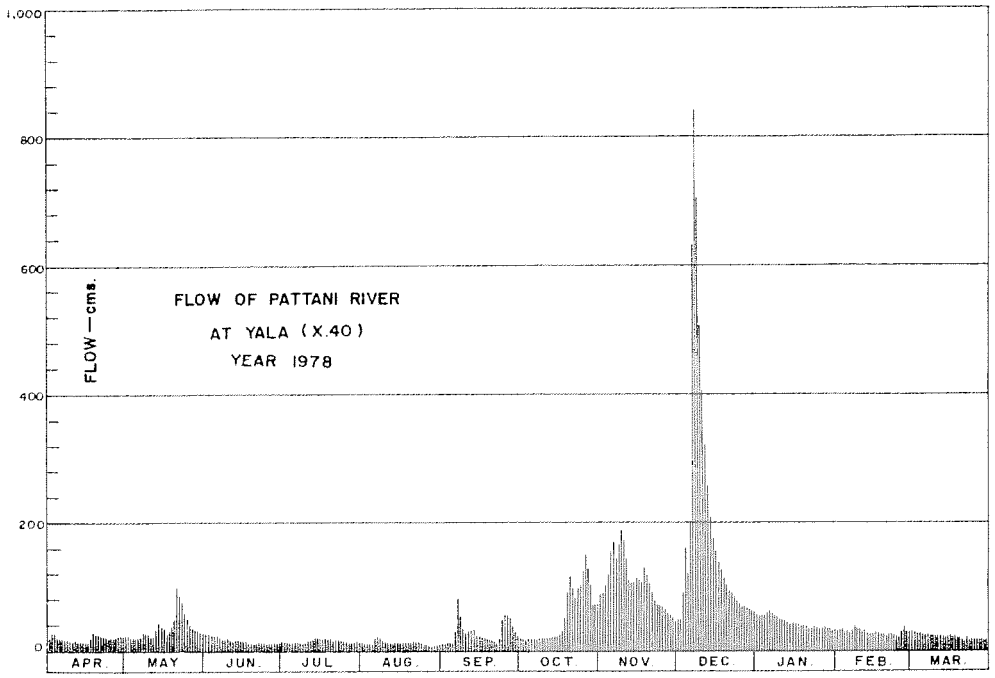
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.66	10.50	10.64	10.37	10.37	10.32	10.46	11.71	11.12	11.23	10.79	10.70	
2	10.73	10.48	10.63	10.37	10.35	10.33	10.47	11.74	11.17	11.22	10.76	10.66	
3	10.57	10.47	10.60	10.37	10.34	10.34	10.47	11.89	11.69	11.25	10.74	10.63	
4	10.49	10.46	10.57	10.36	10.35	10.34	10.48	12.15	12.48	11.24	10.72	10.60	
5	10.48	10.45	10.54	10.36	10.42	10.38	10.48	12.44	12.06	11.30	10.68	10.59	
6	10.47	10.48	10.52	10.37	10.56	10.75	10.47	12.56	12.95	11.35	10.71	10.58	
7	10.46	10.57	10.49	10.37	10.50	11.59	10.46	12.29	15.59	11.22	10.76	10.57	
8	10.45	10.66	10.48	10.38	10.48	11.05	10.49	12.49	15.90	11.17	10.88	10.57	
9	10.44	10.61	10.47	10.38	10.44	10.77	10.50	12.83	15.39	11.13	10.86	10.56	
10	10.43	10.58	10.47	10.39	10.39	10.71	10.53	12.62	14.75	11.09	10.79	10.55	
11	10.42	10.56	10.46	10.50	10.33	10.75	10.51	12.10	14.06	11.04	10.72	10.55	
12	10.41	10.62	10.45	10.50	10.32	10.76	10.50	11.92	13.60	11.01	10.67	10.55	
13	10.40	10.96	10.49	10.50	10.30	10.74	10.52	11.90	13.21	10.99	10.65	10.55	
14	10.39	10.93	10.46	10.51	10.34	10.57	10.57	11.91	12.83	10.96	10.65	10.56	
15	10.39	10.88	10.43	10.50	10.36	10.55	10.61	12.00	12.59	10.96	10.67	10.56	
16	10.41	10.80	10.41	10.51	10.40	10.53	10.62	11.93	12.40	10.95	10.69	10.57	
17	10.54	10.64	10.39	10.51	10.43	10.51	10.77	11.92	12.23	10.93	10.68	10.54	
18	10.78	10.77	10.38	10.51	10.42	10.41	11.21	12.16	12.10	10.88	10.66	10.50	
19	10.68	10.97	10.37	10.50	10.40	10.40	11.74	12.03	11.97	10.87	10.63	10.48	
20	10.63	11.24	10.37	10.49	10.44	10.39	11.98	11.89	11.86	10.86	10.61	10.46	
21	10.55	11.76	10.39	10.47	10.40	10.38	11.81	11.71	11.78	10.85	10.60	10.46	
22	10.52	11.59	10.43	10.46	10.39	10.38	11.60	11.58	11.67	10.84	10.59	10.47	
23	10.51	11.31	10.43	10.44	10.35	10.55	11.80	11.48	11.62	10.86	10.58	10.45	
24	10.50	11.20	10.42	10.41	10.32	11.12	11.82	11.44	11.55	10.84	10.58	10.47	
25	10.50	11.00	10.41	10.41	10.20	11.23	12.06	11.40	11.50	10.85	10.59	10.47	
26	10.49	10.87	10.40	10.40	10.22	11.21	[illegible]39	11.33	11.46	10.83	10.76	10.45	
27	10.52	10.77	10.39	10.39	10.21	11.11	12.11	11.22	11.41	10.84	10.83	10.45	
28	10.55	10.74	10.38	10.40	10.24	10.92	11.81	11.17	11.36	10.82	10.74	10.44	
29	10.62	10.73	10.37	10.42	10.25	10.70	11.45	11.10	11.34	10.83		10.44	
30	10.56	10.73	10.37	10.40	10.24	10.60	11.51	11.06	11.29	10.82		10.47	
31		10.66		10.40	10.21		11.58		11.25	10.80		10.47	
MEAN	10.52	10.81	10.45	10.43	10.35	10.68	11.09	11.87	12.46	10.99	10.70	10.53	
MAX	10.78	11.76	10.64	10.51	10.56	11.59	12.39	12.83	15.90	11.35	10.88	10.70	15.90
MIN	10.39	10.45	10.37	10.36	10.20	10.32	10.46	11.06	11.12	10.80	10.58	10.44	10.20

ANNUAL MAX MOMENTARY GAGE HEIGHT — 16.01 M (MSL), AT 3.00 HOURS, ON DEC 8, 1978

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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	26.00	19.00	25.00	13.80	13.80	11.80	17.40	90.90	50.20	56.80	32.50	28.00	
2	29.50	18.20	24.50	13.80	13.00	12.20	17.80	93.60	53.20	56.20	31.00	26.00	
3	21.80	17.80	23.00	13.80	12.60	12.60	17.80	107.10	89.20	58.00	30.00	24.50	
4	18.60	17.40	21.80	13.40	13.00	12.60	18.20	130.50	160.20	57.40	29.00	23.00	
5	18.20	17.00	20.60	13.40	15.80	14.20	18.20	156.60	122.40	61.00	27.00	22.60	
6	17.80	18.20	19.80	13.80	21.40	30.50	17.80	168.00	207.00	64.00	28.50	22.20	
7	17.40	21.80	18.60	13.80	19.00	81.20	17.40	143.10	700.40	56.20	31.00	21.80	
8	17.00	26.00	18.20	14.20	18.20	46.00	18.60	161.10	841.00	53.20	37.00	21.80	
9	16.60	23.50	17.80	14.20	16.60	31.50	19.00	195.00	629.70	50.80	36.00	21.40	
10	16.20	22.20	17.80	14.60	14.60	28.50	20.20	174.00	465.00	48.40	32.50	21.00	
11	15.80	21.40	17.40	19.00	12.20	30.50	19.40	126.00	344.00	45.40	29.00	21.00	
12	15.40	24.00	17.00	19.00	11.80	31.00	19.00	109.80	282.00	43.60	26.50	21.00	
13	15.00	41.00	18.60	19.00	11.00	30.00	19.80	108.00	235.20	42.50	25.50	21.00	
14	14.60	39.50	17.40	19.40	12.60	21.80	21.80	108.90	195.00	41.00	25.50	21.40	
15	14.60	37.00	16.20	19.00	13.40	21.00	23.50	117.00	171.00	41.00	26.50	21.40	
16	15.40	33.00	15.40	19.40	15.00	20.20	24.00	110.70	153.00	40.50	27.50	21.80	
17	20.60	25.00	14.60	19.40	16.20	19.40	31.50	109.80	137.70	39.50	27.00	20.60	
18	32.00	31.50	14.20	19.40	15.80	15.40	55.60	131.40	126.00	37.00	26.00	19.00	
19	27.00	41.50	13.80	19.00	15.00	15.00	93.60	119.70	114.30	36.50	24.50	18.20	
20	24.50	57.40	13.80	18.60	16.60	14.60	115.20	107.10	104.40	36.00	23.50	17.40	
21	21.00	95.40	14.60	17.80	15.00	14.20	99.90	90.90	97.20	35.50	23.00	17.40	
22	19.80	81.20	16.20	17.40	14.60	14.20	82.00	80.40	87.60	35.00	22.60	17.80	
23	19.40	61.60	16.20	16.60	13.00	21.00	99.00	72.60	83.60	36.00	22.20	17.00	
24	19.00	55.00	15.80	15.40	11.80	50.20	100.80	69.80	78.00	35.00	22.20	17.80	
25	19.00	43.00	15.40	15.40	8.00	56.80	122.40	67.00	74.00	35.50	22.60	17.80	
26	18.60	36.50	15.00	15.00	8.60	55.60	152.10	62.80	71.20	34.50	31.00	17.00	
27	19.80	31.50	14.60	14.60	8.30	49.60	126.90	56.20	67.70	35.00	34.50	17.00	
28	21.00	30.00	14.20	15.00	9.20	39.00	99.90	53.20	64.60	34.00	30.00	16.60	
29	24.00	29.50	13.80	15.80	9.50	28.00	70.50	49.00	63.40	34.50		16.60	
30	21.40	29.50	13.80	15.00	9.20	23.00	74.80	46.60	60.40	34.00		17.80	
31		26.00		15.00	8.30		80.40		58.00	33.00		17.80	
TOTAL	597.00	1071.60	515.10	503.00	413.10	851.60	1714.50	3216.80	5986.59	1347.00	784.10	625.70	17626.08 CMSDAY
MEAN	19.90	34.57	17.17	16.23	13.33	28.39	55.31	107.23	193.12	43.45	28.00	20.18	48.29 CMS
MAX	32.00	95.40	25.00	19.40	21.40	81.20	152.10	195.00	841.00	64.00	37.00	28.00	841.00 CMS
MIN	14.60	17.00	13.80	13.40	8.00	11.80	17.40	46.60	50.20	33.00	22.20	16.60	8.00 CMS
RUNOFF	51.581	92.586	44.505	43.459	35.692	73.578	148.133	277.931	517.242	116.381	67.746	54.060	1522.893 MCM

MOMENTARY PEAK 904.60 CMS, AT 16.01 M (MSL), AT 3.00 HOURS, ON DEC 8, 1978

RUNOFF YIELD 14.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 274.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

SOUTHERN PENINSULA EAST COAST

KHLONG YAHA AT BAN LA AE, YALA (X.72)

LOCATION — LAT. 6°-28'-21" N., LONG. 101°-10'-03" E., ON RIGHT BANK ABOUT 4 KILOMETERS FROM AMPHOE YAHA AND ABOUT 3 KILOMETERS DOWNSTREAM FROM THE CONFLUENCE WITH KHLONG BA TAE AT BAN LA AE, AMPHOE YAHA, YALA.

DRAINAGE AREA — 382 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

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

BENCH MARK — B.M.-H.S.

LOCATION — ALONG THE MEASURING LINE.

ELEVATION — +7.109 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1969

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1969

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

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 325 DISCHARGE MEASUREMENTS MADE DURING 1967-1968.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

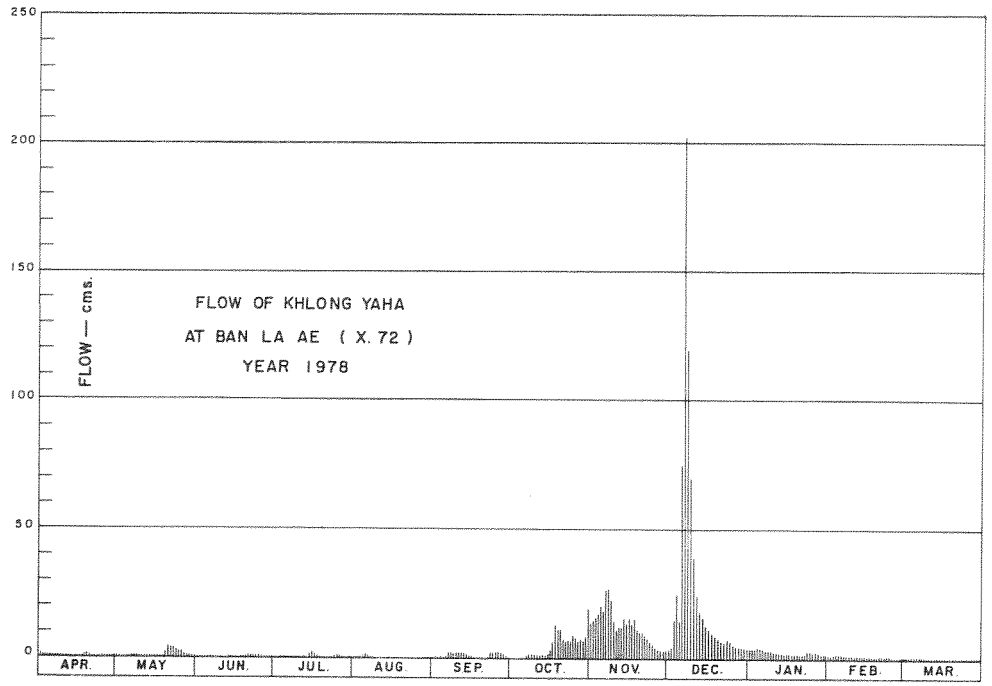
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.53	1.21	1.27	1.20	1.22	1.10	1.28	2.79	1.77	1.84	1.53	1.35	
2	1.35	1.18	1.24	1.20	1.20	1.09	1.25	2.89	1.91	1.85	1.53	1.37	
3	1.27	1.17	1.21	1.19	1.25	1.11	1.24	2.97	2.80	1.83	1.55	1.37	
4	1.28	1.16	1.19	1.16	1.31	1.10	1.22	3.07	3.46	1.85	1.56	1.37	
5	1.23	1.15	1.17	1.14	1.46	1.26	1.20	3.22	2.84	1.86	1.57	1.37	
6	1.22	1.14	1.18	1.13	1.46	0.97	1.22	3.03	6.30	1.80	1.56	1.37	
7	1.19	1.13	1.19	1.13	1.35	1.67	1.38	3.57	8.74	1.76	1.53	1.39	
8	1.17	1.13	1.19	1.14	1.30	1.56	1.51	3.61	6.89	1.73	1.54	1.37	
9	1.15	1.13	1.20	1.14	1.25	1.55	1.49	3.13	5.47	1.70	1.51	1.35	
10	1.13	1.15	1.20	1.15	1.23	1.57	1.47	2.67	4.37	1.67	1.48	1.35	
11	1.13	1.17	1.19	1.13	1.21	1.62	1.44	2.54	3.85	1.65	1.47	1.36	
12	1.12	1.21	1.19	1.15	1.21	1.61	1.40	2.65	3.45	1.62	1.47	1.36	
13	1.11	1.29	1.18	1.15	1.20	1.57	1.37	2.68	3.12	1.58	1.45	1.38	
14	1.11	1.25	1.17	1.32	1.19	1.48	1.40	2.89	2.91	1.56	1.43	1.38	
15	1.16	1.25	1.15	1.46	1.23	1.38	1.38	2.73	2.78	1.54	1.41	1.34	
16	1.22	1.22	1.14	1.56	1.27	1.32	1.67	2.90	2.63	1.52	1.40	1.29	
17	1.24	1.21	1.13	1.42	1.30	1.29	2.12	2.78	2.51	1.51	1.40	1.28	
18	1.40	1.31	1.13	1.30	1.26	1.25	2.72	2.93	2.40	1.50	1.39	1.27	
19	1.44	1.29	1.12	1.26	1.24	1.23	2.63	2.59	2.31	1.52	1.39	1.27	
20	1.39	1.81	1.15	1.22	1.23	1.21	2.58	2.49	2.23	1.54	1.40	1.27	
21	1.29	2.01	1.39	1.19	1.21	1.22	2.27	2.55	2.18	1.53	1.40	1.27	
22	1.25	1.72	1.35	1.19	1.18	1.25	2.10	2.40	2.15	1.53	1.38	1.27	
23	1.21	1.88	1.28	1.19	1.16	1.64	2.21	2.22	2.12	1.58	1.37	1.27	
24	1.19	1.68	1.28	1.30	1.14	1.62	2.13	2.10	2.29	1.72	1.38	1.26	
25	1.18	1.71	1.28	1.42	1.14	1.68	2.44	2.00	2.03	1.70	1.38	1.27	
26	1.21	1.55	1.23	1.39	1.11	1.69	2.32	1.92	1.99	1.63	1.34	1.27	
27	1.21	1.45	1.21	1.36	1.09	1.55	2.14	1.85	1.96	1.61	1.30	1.27	
28	1.30	1.42	1.20	1.33	1.08	1.46	2.24	1.80	1.92	1.57	1.33	1.27	
29	1.26	1.44	1.20	1.29	1.08	1.38	2.19	1.74	1.89	1.56		1.28	
30	1.23	1.39	1.20	1.27	1.09	1.32	2.33	1.72	1.87	1.55		1.25	
31		1.33		1.25	1.11		3.20		1.84	1.54		1.23	
MEAN	1.24	1.36	1.21	1.25	1.22	1.39	1.86	2.61	3.06	1.64	1.44	1.32	
MAX	1.53	2.01	1.39	1.56	1.46	1.69	3.20	3.61	8.74	1.86	1.57	1.39	8.74
MIN	1.11	1.13	1.12	1.13	1.08	0.97	1.20	1.72	1.77	1.50	1.30	1.23	0.97

ANNUAL MAX MOMENTARY GAGE HEIGHT — 9.69 M (A.D), AT 23.00 HOURS, ON DEC 6, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED 0.81 M (A.D)

LEFT BANK ELEVATION — 11.05 M (A.D)

RIGHT BANK ELEVATION — 6.78 M (A.D), DRAINAGE AREA 358 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.88	0.53	0.71	0.50	0.56	0.30	0.74	13.97	3.49	3.98	1.88	1.00	
2	1.00	0.46	0.62	0.50	0.50	0.28	0.65	15.36	4.48	4.05	1.88	1.08	
3	0.71	0.44	0.53	0.48	0.65	0.32	0.62	16.48	14.10	3.91	2.00	1.08	
4	0.74	0.42	0.48	0.42	0.84	0.30	0.56	17.95	24.64	4.05	2.06	1.08	
5	0.59	0.40	0.44	0.38	1.50	0.68	0.50	20.34	14.66	4.12	2.12	1.08	
6	0.56	0.38	0.46	0.36	1.50	0.07	0.56	17.35	98.20	3.70	2.06	1.08	
7	0.48	0.36	0.48	0.36	1.00	2.79	1.12	26.73	202.88	3.42	1.88	1.16	
8	0.44	0.36	0.48	0.38	0.80	2.06	1.76	27.50	119.03	3.21	1.94	1.08	
9	0.40	0.36	0.50	0.38	0.65	2.00	1.65	18.88	72.36	3.00	1.76	1.00	
10	0.36	0.40	0.50	0.40	0.59	2.12	1.55	12.41	43.61	2.79	1.60	1.00	
11	0.36	0.44	0.48	0.36	0.53	2.44	1.40	10.78	32.30	2.65	1.55	1.04	
12	0.34	0.53	0.48	0.40	0.53	2.37	1.20	12.15	24.45	2.44	1.55	1.04	
13	0.32	0.77	0.46	0.40	0.50	2.12	1.08	12.54	18.72	2.18	1.45	1.12	
14	0.32	0.65	0.44	0.88	0.48	1.60	1.20	15.36	15.64	2.06	1.35	1.12	
15	0.42	0.65	0.40	1.50	0.59	1.12	1.12	13.19	13.84	1.94	1.25	0.96	
16	0.56	0.56	0.38	2.06	0.71	0.88	2.79	15.50	11.89	1.82	1.20	0.77	
17	0.62	0.53	0.36	1.30	0.80	0.77	6.30	13.84	10.42	1.76	1.20	0.74	
18	1.20	0.84	0.36	0.80	0.68	0.65	13.06	15.92	9.20	1.70	1.16	0.71	
19	1.40	0.77	0.34	0.68	0.62	0.59	11.89	11.38	8.21	1.82	1.16	0.71	
20	1.16	3.77	0.40	0.56	0.59	0.53	11.26	10.19	7.40	1.94	1.20	0.71	
21	0.77	5.29	1.16	0.48	0.53	0.56	7.80	10.90	6.90	1.88	1.20	0.71	
22	0.65	3.14	1.00	0.48	0.46	0.65	6.10	9.20	6.60	1.88	1.12	0.71	
23	0.53	4.26	0.74	0.48	0.42	2.58	7.20	7.30	6.30	2.18	1.08	0.71	
24	0.48	2.86	0.74	0.80	0.38	2.44	6.40	6.10	8.00	3.14	1.12	0.68	
25	0.46	3.07	0.74	1.30	0.38	2.86	9.64	5.20	5.47	3.00	1.12	0.71	
26	0.53	2.00	0.59	1.16	0.32	2.93	8.32	4.56	5.12	2.51	0.96	0.71	
27	0.53	1.45	0.53	1.04	0.28	2.00	6.50	4.05	4.88	2.37	0.80	0.71	
28	0.80	1.30	0.50	0.92	0.26	1.50	7.50	3.70	4.56	2.12	0.92	0.71	
29	0.68	1.40	0.50	0.77	0.26	1.12	7.00	3.28	4.33	2.06		0.74	
30	0.59	1.16	0.50	0.71	0.28	0.86	8.43	3.14	4.19	2.00		0.65	
31		0.92		0.65	0.32		20.00		3.98	1.94		0.59	
TOTAL	19.88	40.47	16.30	21.89	18.51	41.51	155.90	375.25	809.85	81.62	40.57	27.19	1648.94 CMSDAY
MEAN	0.66	1.31	0.54	0.71	0.60	1.38	5.03	12.51	26.12	2.63	1.45	0.88	4.52 CMS
MAX	1.88	5.29	1.16	2.06	1.50	2.93	20.00	27.50	202.88	4.12	2.12	1.16	202.88 CMS
MIN	0.32	0.36	0.34	0.36	0.26	0.07	0.50	3.14	3.49	1.70	0.80	0.59	0.07 CMS
RUNOFF	1.718	3.497	1.408	1.891	1.599	3.586	13.470	32.422	69.971	7.052	3.505	2.349	142.468 MCM

MOMENTARY PEAK 252.28 CMS, AT 9.69 M (A.D), AT 23.00 HOURS, ON DEC 6, 1978
RUNOFF YIELD 12.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 704.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1977.

REMARKS — ESTIMATED GAGE HEIGHT FOR NO FLOW DURING APR 1-MAY 16,1978 AND JAN 1-MAR 31,1979

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

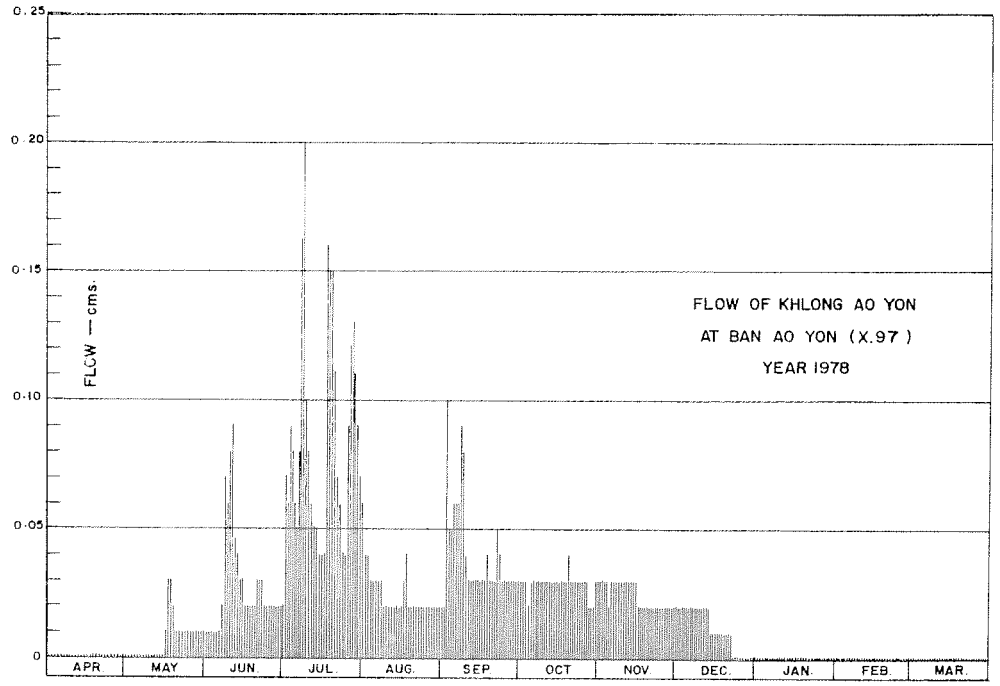
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.99	0.99	1.04	1.07	1.13	1.08	1.09	1.09	1.06	0.91	0.99	0.99	
2	0.99	0.99	1.04	1.14	1.11	1.08	1.09	1.09	1.06	0.91	0.99	0.99	
3	0.99	0.99	1.04	1.13	1.11	1.17	1.09	1.09	1.06	0.91	0.99	0.99	
4	0.99	0.99	1.04	1.16	1.10	1.12	1.08	1.09	1.07	0.91	0.99	0.99	
5	0.99	0.99	1.04	1.15	1.09	1.13	1.09	1.08	1.07	0.91	0.99	0.99	
6	0.99	0.99	1.04	1.13	1.10	1.13	1.09	1.09	1.07	0.91	0.99	0.99	
7	0.99	0.99	1.08	1.12	1.09	1.13	1.09	1.09	1.07	0.91	0.99	0.99	
8	0.99	0.99	1.14	1.17	1.09	1.16	1.09	1.09	1.07	0.91	0.99	0.99	
9	0.99	0.99	1.13	1.24	1.08	1.15	1.09	1.10	1.07	0.91	0.99	0.99	
10	0.99	0.99	1.15	1.17	1.08	1.11	1.09	1.10	1.07	0.91	0.99	0.99	
11	0.99	1.00	1.16	1.15	1.08	1.10	1.09	1.09	1.06	0.91	0.99	0.99	
12	0.99	1.00	1.12	1.13	1.07	1.10	1.09	1.09	1.07	0.91	0.99	0.99	
13	0.99	1.00	1.11	1.12	1.07	1.09	1.10	1.10	1.06	0.91	0.99	0.99	
14	0.99	1.00	1.09	1.12	1.08	1.09	1.10	1.09	1.05	0.91	0.99	0.99	
15	0.99	1.00	1.09	1.11	1.08	1.09	1.09	1.09	1.05	0.91	0.99	0.99	
16	0.99	1.00	1.08	1.11	1.08	1.09	1.10	1.08	1.05	0.91	0.99	0.99	
17	0.99	1.10	1.08	1.11	1.09	1.09	1.10	1.08	1.05	0.91	0.99	0.99	
18	0.99	1.09	1.08	1.22	1.11	1.11	1.10	1.08	1.05	0.91	0.99	0.99	
19	0.99	1.08	1.08	1.21	1.08	1.09	1.09	1.08	1.04	0.91	0.99	0.99	
20	0.99	1.05	1.08	1.21	1.08	1.09	1.11	1.08	1.03	0.91	0.99	0.99	
21	0.99	1.04	1.09	1.17	1.08	1.10	1.09	1.08	1.02	0.91	0.99	0.99	
22	0.99	1.04	1.10	1.14	1.08	1.12	1.09	1.07	1.02	0.91	0.99	0.99	
23	0.99	1.04	1.09	1.13	1.08	1.11	1.09	1.07	1.02	0.91	0.99	0.99	
24	0.99	1.04	1.08	1.12	1.07	1.10	1.09	1.07	1.01	0.91	0.99	0.99	
25	0.99	1.04	1.07	1.11	1.07	1.09	1.09	1.07	1.00	0.91	0.99	0.99	
26	0.99	1.04	1.07	1.16	1.08	1.10	1.09	1.06	1.00	0.91	0.99	0.99	
27	0.99	1.04	1.07	1.19	1.08	1.10	1.09	1.06	0.99	0.91	0.99	0.99	
28	0.99	1.04	1.07	1.20	1.08	1.09	1.08	1.06	0.97	0.91	0.99	0.99	
29	0.99	1.04	1.07	1.18	1.08	1.09	1.08	1.06	0.95	0.91		0.99	
30	0.99	1.04	1.07	1.16	1.08	1.09	1.09	1.06	0.91	0.91		0.99	
31		1.04		1.14	1.08		1.09		0.87	0.81		0.81	
MEAN	0.99	1.02	1.08	1.15	1.09	1.11	1.09	1.08	1.03	0.91	0.99	0.98	
MAX	0.99	1.10	1.16	1.24	1.13	1.17	1.11	1.10	1.07	0.91	0.99	0.99	1.24
MIN	0.99	0.99	1.04	1.07	1.07	1.08	1.08	1.06	0.87	0.81	0.99	0.81	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.41 M (MSL), AT 18.00 HOURS, ON JUL 8, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.81 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION — 2.85 M (MSL)

RIGHT BANK ELEVATION — 2.63 M (MSL), DRAINAGE AREA 2 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.01	0.02	0.06	0.02	0.03	0.03	0.02	0.00	0.00	0.00	
2	0.00	0.00	0.01	0.07	0.04	0.02	0.03	0.03	0.02	0.00	0.00	0.00	
3	0.00	0.00	0.01	0.06	0.04	0.10	0.03	0.03	0.02	0.00	0.00	0.00	
4	0.00	0.00	0.01	0.09	0.03	0.05	0.02	0.03	0.02	0.00	0.00	0.00	
5	0.00	0.00	0.01	0.08	0.03	0.06	0.03	0.02	0.02	0.00	0.00	0.00	
6	0.00	0.00	0.01	0.06	0.03	0.06	0.03	0.03	0.02	0.00	0.00	0.00	
7	0.00	0.00	0.02	0.05	0.03	0.06	0.03	0.03	0.02	0.00	0.00	0.00	
8	0.00	0.00	0.07	0.10	0.03	0.09	0.03	0.03	0.02	0.00	0.00	0.00	
9	0.00	0.00	0.06	0.20	0.02	0.08	0.03	0.03	0.02	0.00	0.00	0.00	
10	0.00	0.00	0.08	0.10	0.02	0.04	0.03	0.03	0.02	0.00	0.00	0.00	
11	0.00	0.00	0.09	0.08	0.02	0.03	0.03	0.03	0.02	0.00	0.00	0.00	
12	0.00	0.00	0.05	0.06	0.02	0.03	0.03	0.03	0.02	0.00	0.00	0.00	
13	0.00	0.00	0.04	0.05	0.02	0.03	0.03	0.03	0.02	0.00	0.00	0.00	
14	0.00	0.00	0.03	0.05	0.02	0.03	0.03	0.03	0.01	0.00	0.00	0.00	
15	0.00	0.00	0.03	0.04	0.02	0.03	0.03	0.03	0.01	0.00	0.00	0.00	
16	0.00	0.00	0.02	0.04	0.02	0.03	0.03	0.02	0.01	0.00	0.00	0.00	
17	0.00	0.03	0.02	0.04	0.03	0.03	0.03	0.02	0.01	0.00	0.00	0.00	
18	0.00	0.03	0.02	0.16	0.04	0.04	0.03	0.02	0.01	0.00	0.00	0.00	
19	0.00	0.02	0.02	0.15	0.02	0.03	0.03	0.02	0.01	0.00	0.00	0.00	
20	0.00	0.01	0.02	0.15	0.02	0.03	0.04	0.02	0.01	0.00	0.00	0.00	
21	0.00	0.01	0.03	0.10	0.02	0.03	0.03	0.02	0.01	0.00	0.00	0.00	
22	0.00	0.01	0.03	0.07	0.02	0.05	0.03	0.02	0.01	0.00	0.00	0.00	
23	0.00	0.01	0.03	0.06	0.02	0.04	0.03	0.02	0.01	0.00	0.00	0.00	
24	0.00	0.01	0.02	0.05	0.02	0.03	0.03	0.02	0.00	0.00	0.00	0.00	
25	0.00	0.01	0.02	0.04	0.02	0.03	0.03	0.02	0.00	0.00	0.00	0.00	
26	0.00	0.01	0.02	0.09	0.02	0.03	0.03	0.02	0.00	0.00	0.00	0.00	
27	0.00	0.01	0.02	0.12	0.02	0.03	0.03	0.02	0.00	0.00	0.00	0.00	
28	0.00	0.01	0.02	0.13	0.02	0.03	0.02	0.02	0.00	0.00	0.00	0.00	
29	0.00	0.01	0.02	0.11	0.02	0.03	0.02	0.02	0.00	0.00		0.00	
30	0.00	0.01	0.02	0.09	0.02	0.03	0.03	0.02	0.00	0.00		0.00	
31		0.01		0.07	0.02		0.03		0.00	0.00		0.00	
TOTAL	0.00	0.20	0.86	2.58	0.78	1.22	0.91	0.74	0.36	0.00	0.00	0.00	7.65 CMSDAY
MEAN	0.00	0.01	0.03	0.08	0.03	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.02 CMS
MAX	0.00	0.03	0.09	0.20	0.06	0.10	0.04	0.03	0.02	0.00	0.00	0.00	0.20 CMS
MIN	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.017	0.074	0.223	0.067	0.105	0.079	0.064	0.031	0.000	0.000	0.000	0.661 MCM

MOMENTARY PEAK 0.63 CMS, AT 1.41 M (MSL), AT 18.00 HOURS, ON JUL 8, 1978

RUNOFF YIELD 10.49 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 317.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.-H.S.

LOCATION — ON LEFT BANK NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +8.876 M. (A.D.)

GAGE READING FREQUENCY — 5-13 TIME DAILY READINGS AT 06.00-18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5-13 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

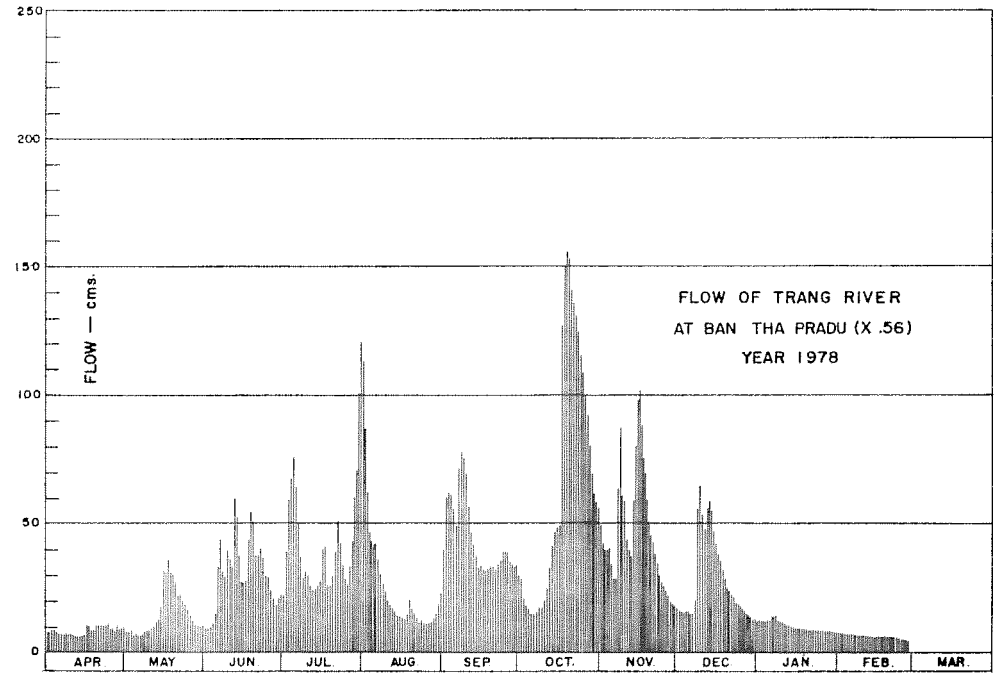
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 115 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — ENDING RECORD ON MAR 1, 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.53	1.60	1.68	2.23	5.41	2.99	2.58	3.36	2.08	1.88	1.58	*******	
2	1.59	1.56	1.68	2.96	4.58	3.72	2.39	3.09	2.05	1.88	1.57	*******	
3	1.60	1.63	1.75	3.70	3.77	3.78	2.24	3.01	2.02	1.87	1.56	*******	
4	1.56	1.50	1.79	3.97	3.25	3.74	2.12	3.06	2.05	1.88	1.56	*******	
5	1.49	1.52	2.00	4.23	3.10	3.57	2.04	2.77	2.04	1.88	1.55	*******	
6	1.49	1.48	2.73	3.85	3.08	3.35	1.98	2.58	2.00	1.94	1.55	*******	
7	1.52	1.52	3.12	3.35	2.84	4.09	2.02	2.57	2.24	1.95	1.54	*******	
8	1.51	1.58	2.57	2.85	2.65	4.30	2.13	3.85	3.60	1.89	1.53	*******	
9	1.47	1.60	2.98	2.59	2.49	4.24	2.10	4.58	3.87	1.87	1.53	*******	
10	1.45	1.62	2.86	2.65	2.36	4.02	2.20	3.70	3.51	1.84	1.53	*******	
11	1.43	1.66	2.76	2.60	2.24	3.58	2.42	3.16	3.30	1.80	1.52	*******	
12	1.42	1.72	3.70	2.45	2.14	3.24	2.74	3.01	3.59	1.77	1.52	*******	
13	1.42	1.83	3.44	2.36	2.06	3.06	3.15	2.91	3.68	1.75	1.51	*******	
14	1.42	2.08	2.89	2.46	1.98	2.89	3.27	3.69	3.54	1.73	1.50	*******	
15	1.48	2.68	2.50	2.55	1.95	2.74	3.32	4.94	3.24	1.72	1.50	*******	
16	1.74	2.66	2.49	3.02	1.92	2.77	3.34	5.07	3.00	1.70	1.49	*******	
17	1.68	2.82	3.13	3.05	1.89	2.71	5.87	4.63	2.85	1.70	1.48	*******	
18	1.59	2.67	3.51	2.63	1.97	2.69	6.57	4.19	2.71	1.69	1.47	*******	
19	1.73	2.64	3.39	2.45	2.21	2.75	6.74	3.69	2.56	1.68	1.49	*******	
20	1.76	2.50	2.93	2.62	2.08	2.78	6.67	3.36	2.43	1.66	1.48	*******	
21	1.74	2.29	2.90	2.96	1.99	2.71	6.27	3.12	2.35	1.65	1.47	*******	
22	1.72	2.30	3.01	3.42	1.89	2.79	5.97	2.94	2.29	1.65	1.47	*******	
23	1.73	2.23	2.85	3.08	1.85	2.84	5.77	2.78	2.23	1.64	1.46	*******	
24	1.76	2.14	2.61	2.76	1.86	2.96	5.47	2.63	2.16	1.65	1.45	*******	
25	1.65	2.04	2.58	2.56	1.81	3.00	5.29	2.51	2.12	1.65	1.43	*******	
26	1.65	1.93	2.39	2.45	1.78	2.96	5.04	2.41	2.07	1.65	1.42	*******	
27	1.60	1.83	2.25	2.72	1.82	2.85	4.75	2.31	2.02	1.63	1.41	*******	
28	1.73	1.76	2.13	3.12	1.94	2.80	4.36	2.23	1.97	1.63	1.40	*******	
29	1.67	1.73	2.26	4.07	2.02	2.79	4.01	2.18	1.92	1.63		*******	
30	1.68	1.72	2.28	5.07	2.16	2.78	3.72	2.12	1.90	1.60		*******	
31		1.71		5.66	2.34		3.59		1.88	1.60		*******	
MEAN	1.59	1.95	2.64	3.11	2.43	3.18	3.88	3.21	2.56	1.74	1.50	*******	
MAX	1.76	2.82	3.70	5.66	5.41	4.30	6.74	5.07	3.87	1.95	1.58	*******	6.74
MIN	1.42	1.48	1.68	2.23	1.78	2.69	1.98	2.12	1.88	1.60	1.40	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.76 M (A.D), AT 17.00 HOURS, ON OCT 19, 1978
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.18 M (A.D)
LEFT BANK ELEVATION 13.12 M (A.D)
RIGHT BANK ELEVATION 15.33 M (A.D), DRAINAGE AREA 1801 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.85	7.90	9.10	19.92	112.75	39.14	28.50	49.28	16.60	12.60	7.60	*******	
2	7.75	7.30	9.10	38.36	86.33	60.00	23.76	41.74	16.00	12.60	7.45	*******	
3	7.90	8.35	10.20	59.40	61.50	61.80	20.16	39.66	15.40	12.40	7.30	*******	
4	7.30	6.40	10.84	67.50	46.20	60.60	17.44	40.96	16.00	12.60	7.30	*******	
5	6.25	6.70	15.00	75.33	42.00	55.50	15.80	33.42	15.80	12.60	7.15	*******	
6	6.25	6.10	32.38	63.90	41.48	49.00	14.60	28.50	15.00	13.80	7.15	*******	
7	6.70	6.70	42.56	49.00	35.24	71.10	15.40	28.25	20.16	14.00	7.00	*******	
8	6.55	7.60	28.25	35.50	30.30	77.50	17.66	63.90	56.40	12.80	6.85	*******	
9	5.95	7.90	38.88	28.75	26.25	75.64	17.00	86.33	64.50	12.40	6.85	*******	
10	5.65	8.20	35.76	30.30	23.04	69.00	19.20	59.40	53.70	11.80	6.85	*******	
11	5.35	8.80	33.16	29.00	20.16	55.80	24.50	43.68	47.60	11.00	6.70	*******	
12	5.20	9.72	59.40	25.25	17.88	45.92	32.64	39.66	56.10	10.52	6.70	*******	
13	5.20	11.60	51.60	23.04	16.20	40.96	43.40	37.06	58.80	10.20	6.55	*******	
14	5.20	16.60	36.54	25.50	14.60	36.54	46.76	59.10	54.60	9.88	6.40	*******	
15	6.10	31.08	26.50	27.75	14.00	32.64	48.16	97.79	45.92	9.72	6.40	*******	
16	10.04	30.56	26.25	39.92	13.40	33.42	48.72	101.93	39.40	9.40	6.25	*******	
17	9.10	34.72	42.84	40.70	12.80	31.86	127.39	87.92	35.50	9.40	6.10	*******	
18	7.75	30.62	53.70	29.78	14.40	31.34	149.68	74.10	31.86	9.25	5.95	*******	
19	9.88	30.04	50.12	25.25	19.44	32.90	155.09	59.10	28.00	9.10	6.25	*******	
20	10.36	26.50	37.58	29.52	16.60	33.68	152.86	49.28	24.75	8.80	6.10	*******	
21	10.04	21.36	36.80	38.36	14.80	31.86	140.13	42.56	22.80	8.65	5.95	*******	
22	9.72	21.60	39.66	51.00	12.80	33.94	130.58	37.84	21.36	8.65	5.95	*******	
23	9.88	19.92	35.50	41.48	12.00	35.24	124.21	33.68	19.92	8.50	5.80	*******	
24	10.36	17.88	29.26	33.16	12.20	38.36	114.66	29.78	18.32	8.65	5.65	*******	
25	8.65	15.80	28.50	28.00	11.20	39.40	108.93	26.75	17.44	8.65	5.35	*******	
26	8.65	13.60	23.76	25.25	10.68	38.36	100.97	24.25	16.40	8.65	5.20	*******	
27	7.90	11.60	20.40	32.12	11.40	35.50	91.74	21.84	15.40	8.35	5.05	*******	
28	9.88	10.36	17.66	42.56	13.80	34.20	79.36	19.92	14.40	8.35	4.90	*******	
29	8.95	9.88	20.64	70.50	15.40	33.94	68.70	18.76	13.40	8.35		*******	
30	9.10	9.72	21.12	101.93	18.32	33.68	60.00	17.44	13.00	7.90		*******	
31		9.56		120.71	22.56		56.10		12.60	7.90		*******	
TOTAL	234.46	464.87	923.06	1348.74	819.73	1348.82	2094.10	1393.88	897.13	317.47	178.75	*******	******** CMSDAY
MEAN	7.82	15.00	30.77	43.51	26.44	44.96	67.55	46.46	28.94	10.24	6.38	*******	******* CMS
MAX	10.36	34.72	59.40	120.71	112.75	77.50	155.09	101.93	64.50	14.00	7.60	*******	155.09 CMS
MIN	5.20	6.10	9.10	19.92	10.68	31.34	14.60	17.44	12.60	7.90	4.90	*******	******* CMS
RUNOFF	20.257	40.165	79.752	116.531	70.825	116.538	180.930	120.431	77.512	27.429	15.444	*******	******** MCM

MOMENTARY PEAK 155.73 CMS, AT 6.76 M (A.D), AT 17.00 HOURS, ON OCT 19, 1978

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 86.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1978

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.S.

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 — 5-9 TIME DAILY READINGS AT 01.00, 03.00, 06.00, 09.00, 12.00, 15.00, 18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 5-9 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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1978.

REMARKS — STREAM GAGING BEGAN ON JUN 7, 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1978 TO MARCH 31, 1979

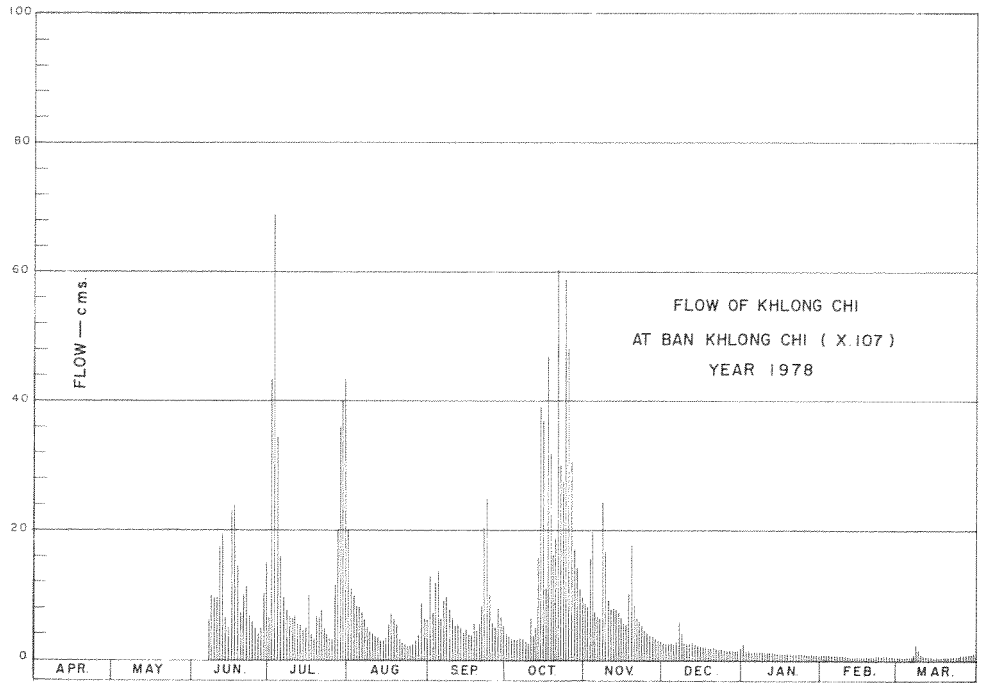
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	1.51	1.56	1.42	0.72	1.10	0.62	0.58	0.31	0.24	
2	*******	*******	*******	3.81	1.28	1.04	0.68	1.12	0.60	0.43	0.31	0.24	
3	*******	*******	*******	3.29	1.22	1.40	0.65	1.84	0.61	0.42	0.31	0.23	
4	*******	*******	*******	1.93	1.09	1.49	0.64	1.08	0.63	0.41	0.30	0.23	
5	*******	*******	*******	1.59	1.14	0.96	0.65	1.04	0.58	0.40	0.30	0.22	
6	*******	*******	*******	1.23	1.04	1.10	0.65	0.96	0.60	0.40	0.30	0.22	
7	*******	*******	0.95	1.09	0.93	1.24	0.65	1.41	0.93	0.39	0.29	0.26	
8	*******	*******	1.24	1.01	0.84	1.21	0.65	2.09	0.80	0.39	0.29	0.60	
9	*******	*******	1.20	0.98	0.80	1.06	0.58	1.29	0.62	0.38	0.29	0.40	
10	*******	*******	1.18	1.00	0.75	1.05	0.97	1.14	0.58	0.37	0.28	0.29	
11	*******	*******	1.54	0.92	0.72	0.86	0.69	1.09	0.60	0.37	0.28	0.25	
12	*******	*******	1.81	0.84	0.69	0.90	0.84	1.10	0.60	0.37	0.28	0.25	
13	*******	*******	1.21	0.90	0.65	0.84	1.48	1.07	0.58	0.36	0.28	0.25	
14	*******	*******	0.92	0.77	0.65	0.78	2.75	1.03	0.55	0.35	0.27	0.24	
15	*******	*******	0.82	0.86	0.65	0.81	2.65	0.94	0.53	0.35	0.27	0.23	
16	*******	*******	2.00	1.24	0.87	0.77	1.32	0.87	0.52	0.35	0.27	0.23	
17	*******	*******	2.03	0.80	1.01	0.69	3.04	0.91	0.51	0.35	0.27	0.23	
18	*******	*******	1.63	0.71	0.99	0.90	2.47	1.35	0.49	0.35	0.27	0.23	
19	*******	*******	1.14	1.00	0.95	0.85	1.70	1.74	0.49	0.35	0.27	0.24	
20	*******	*******	1.05	0.99	0.70	0.75	1.77	1.12	0.49	0.35	0.26	0.26	
21	*******	*******	1.24	1.08	0.63	1.01	3.54	0.95	0.49	0.34	0.26	0.27	
22	*******	*******	1.34	0.87	0.59	1.87	2.34	0.94	0.48	0.34	0.26	0.26	
23	*******	*******	1.00	0.73	0.58	2.10	2.23	0.86	0.48	0.34	0.26	0.27	
24	*******	*******	0.90	0.69	0.55	1.34	3.48	0.81	0.47	0.33	0.25	0.27	
25	*******	*******	0.80	0.67	0.54	0.98	2.84	0.74	0.47	0.33	0.25	0.27	
26	*******	*******	0.75	1.24	0.57	0.85	2.44	0.71	0.46	0.33	0.25	0.28	
27	*******	*******	0.83	1.69	0.66	0.81	1.70	0.70	0.45	0.32	0.25	0.28	
28	*******	*******	0.83	2.61	0.74	1.09	1.60	0.65	0.44	0.32	0.24	0.28	
29	*******	*******	1.56	2.79	1.14	0.96	1.40	0.65	0.43	0.32		0.30	
30	*******	*******	0.97	2.91	0.96	0.83	1.25	0.63	0.43	0.32		0.31	
31		*******		2.03	0.93		1.19		0.43	0.31		0.38	
MEAN	*******	*******	*******	1.41	0.85	1.07	1.60	1.06	0.55	0.37	0.28	0.27	
MAX	*******	*******	2.03	3.81	1.56	2.10	3.54	2.09	0.93	0.58	0.31	0.60	3.81
MIN	*******	*******	*******	0.67	0.54	0.69	0.58	0.63	0.43	0.31	0.24	0.22	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.20 M (A.D), AT 21.00 HOURS, ON OCT 17, 1978

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.08 M (A.D)

LEFT BANK ELEVATION — 9.24 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, 1978 TO MARCH 31, 1979

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	14.26	15.06	12.82	3.98	8.20	3.08	2.74	0.96	0.63	
2	*******	*******	*******	68.81	10.62	7.42	3.62	8.46	2.90	1.68	0.96	0.63	
3	*******	*******	*******	53.32	9.78	12.50	3.35	19.96	2.99	1.62	0.96	0.58	
4	*******	*******	*******	21.67	8.07	13.94	3.26	7.94	3.17	1.56	0.90	0.58	
5	*******	*******	*******	15.54	8.72	6.46	3.35	7.42	2.74	1.50	0.90	0.54	
6	*******	*******	*******	9.92	7.42	8.20	3.35	6.46	2.90	1.50	0.90	0.54	
7	*******	*******	6.35	5.07	6.13	10.06	3.35	12.66	6.13	1.44	0.85	0.72	
8	*******	*******	10.06	7.03	5.14	9.64	3.35	24.80	4.70	1.44	0.85	2.90	
9	*******	*******	9.50	6.68	4.70	7.68	2.74	10.76	3.08	1.38	0.85	1.50	
10	*******	*******	9.24	6.90	4.25	7.55	6.57	8.72	2.74	1.32	0.81	0.85	
11	*******	*******	14.74	6.02	3.98	5.36	3.71	8.07	2.90	1.32	0.81	0.68	
12	*******	*******	19.39	5.14	3.71	5.80	5.14	8.20	2.90	1.32	0.81	0.68	
13	*******	*******	9.64	5.80	3.35	5.14	13.78	7.81	2.74	1.26	0.81	0.68	
14	*******	*******	6.02	4.43	3.35	4.52	39.25	7.29	2.50	1.20	0.76	0.63	
15	*******	*******	4.92	5.36	3.35	4.81	36.85	6.24	2.34	1.20	0.76	0.58	
16	*******	*******	23.00	10.06	5.47	4.43	11.22	5.47	2.26	1.20	0.76	0.58	
17	*******	*******	23.60	4.70	7.03	3.71	46.54	5.91	2.18	1.20	0.76	0.58	
18	*******	*******	16.21	3.89	6.79	5.80	32.74	11.70	2.04	1.20	0.76	0.58	
19	*******	*******	8.72	6.90	6.35	5.25	17.40	18.12	2.04	1.20	0.76	0.63	
20	*******	*******	7.55	6.79	3.80	4.25	18.66	8.46	2.04	1.20	0.72	0.72	
21	*******	*******	10.06	7.94	3.17	7.03	60.70	6.35	2.04	1.14	0.72	0.76	
22	*******	*******	11.54	5.47	2.82	20.53	29.88	6.24	1.98	1.14	0.72	0.72	
23	*******	*******	6.90	4.07	2.74	25.00	27.60	5.36	1.98	1.14	0.72	0.76	
24	*******	*******	5.80	3.71	2.50	11.54	58.90	4.81	1.92	1.08	0.68	0.76	
25	*******	*******	4.70	3.53	2.42	6.68	41.50	4.16	1.92	1.08	0.68	0.76	
26	*******	*******	4.25	10.06	2.66	5.25	32.08	3.89	1.86	1.08	0.68	0.81	
27	*******	*******	5.03	17.23	3.44	4.81	17.40	3.80	1.80	1.02	0.68	0.81	
28	*******	*******	5.03	35.93	4.16	8.07	15.70	3.35	1.74	1.02	0.63	0.81	
29	*******	*******	15.06	40.25	8.72	6.46	12.50	3.35	1.68	1.02		0.90	
30	*******	*******	6.57	43.25	6.46	5.03	10.20	3.17	1.68	1.02		0.96	
31		*******		23.60	6.13		9.37		1.68	0.96		1.38	
TOTAL	*******	*******	*******	466.33	172.29	245.74	578.04	247.13	78.65	40.18	22.16	25.24	******** CMSDAY
MEAN	*******	*******	*******	15.04	5.56	8.19	18.65	8.24	2.54	1.30	0.79	0.81	******* CMS
MAX	*******	*******	23.60	68.81	15.06	25.00	60.70	24.80	6.13	2.74	0.96	2.90	68.81 CMS
MIN	*******	*******	*******	3.53	2.42	3.71	2.74	3.17	1.68	0.96	0.63	0.54	******* CMS
RUNOFF	*******	*******	*******	40.291	14.886	21.232	49.943	21.352	6.795	3.472	1.915	2.181	******** MCM

MOMENTARY PEAK 80.90 CMS, AT 4.20 M (A.D), AT 21.00 HOURS, ON OCT 17, 1978

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 326.21 LITERS/SECOND/SQUARE KM