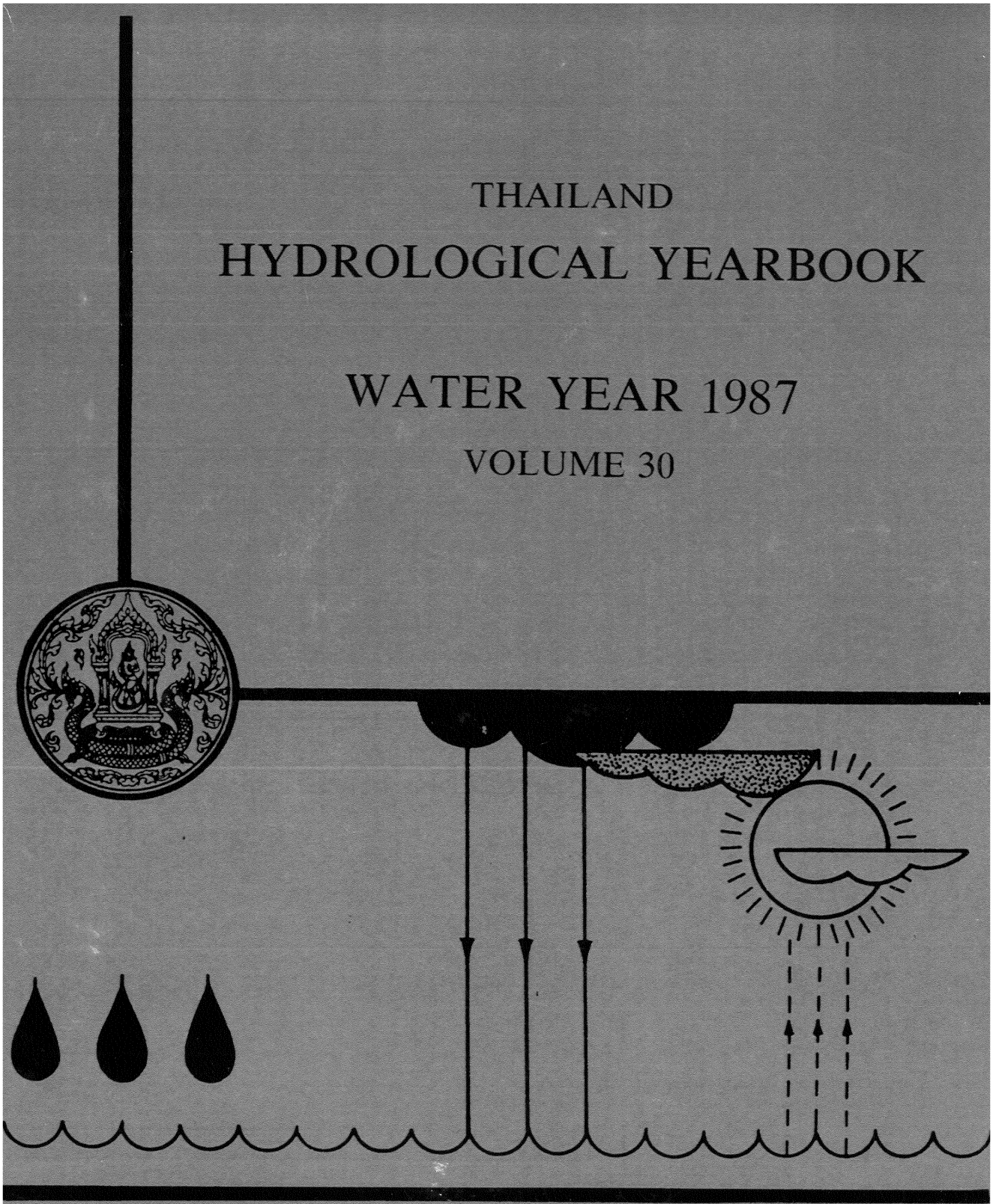
THAILAND
HYDROLOGICAL YEARBOOK

WATER YEAR 1987

VOLUME 30



ROYAL IRRIGATION DEPARTMENT
HYDROLOGY DIVISION
BANGKOK

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FOREWORD

The Programme of yearbook publications was initiated in 1966. Great efforts have been made in editing as well as the setting up of standard for yearbook publication. The previously proceeded 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 1965 water year, of stage and discharge of 59 streams at 86 actual streamflow calibrating sites and at 27 previously calibrated one. Up till now 29 volumes of yearbooks presenting streamflow data as early as 1912 upto 1986 totalling 5,486 station - years of record had been published.

This Volume 30 which is the thirty issues of the series was prepared by the Data Processing Section. It Presents records, during 1987 water year, of stage and discharge of 214 streams at 260 currently calibrating sites and at 11 previously or subsequently calibrating ones.

Hydrology Division
July 1990

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

Thank to Mr. Thada Sukhabunnaphan for the initiative of Hydrology Data Processing with Computer to Data Processing Section from 1978 and thank to Mr. Amnuey Somsin, Chief of Data Processing Section, for the valuable advice.

Also may we express our sincere wish to Hydrological Investigation Sections, Study and Discharge Analysis Unit and Study and Water-Level Analysis Unit for the complete issue of Thailand Hydrological yearbook Volume 30.

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ILLUSSTRATION OF STREAM GAGING ACTIVITIES

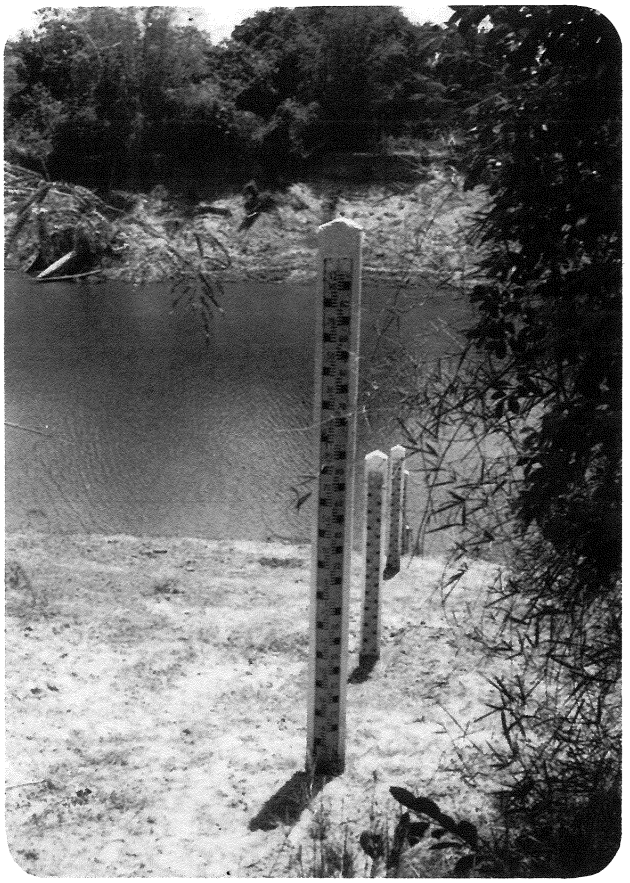


Fig. 1 Typical vertical staff gage

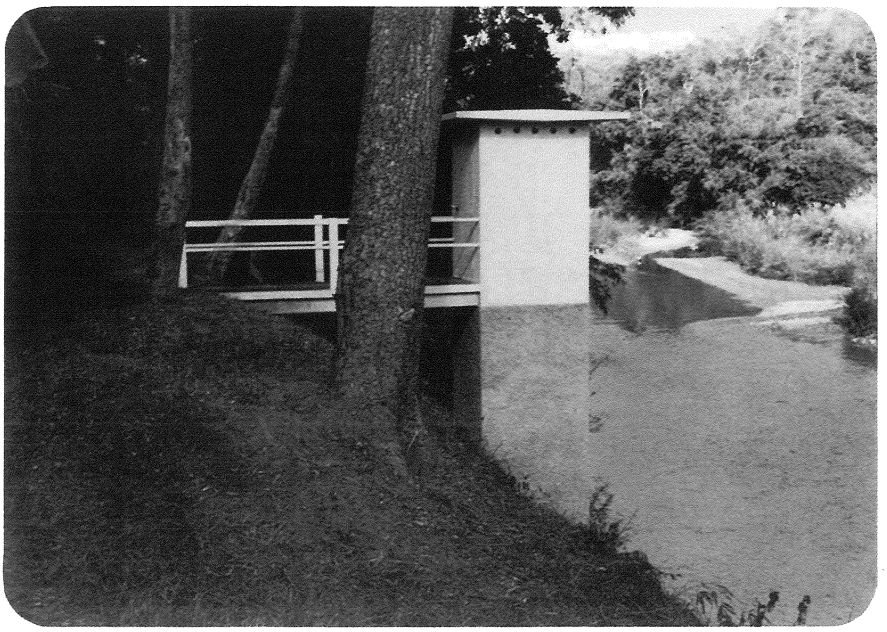


Fig. 2 Typical shelter for water level recorder (Float Type)



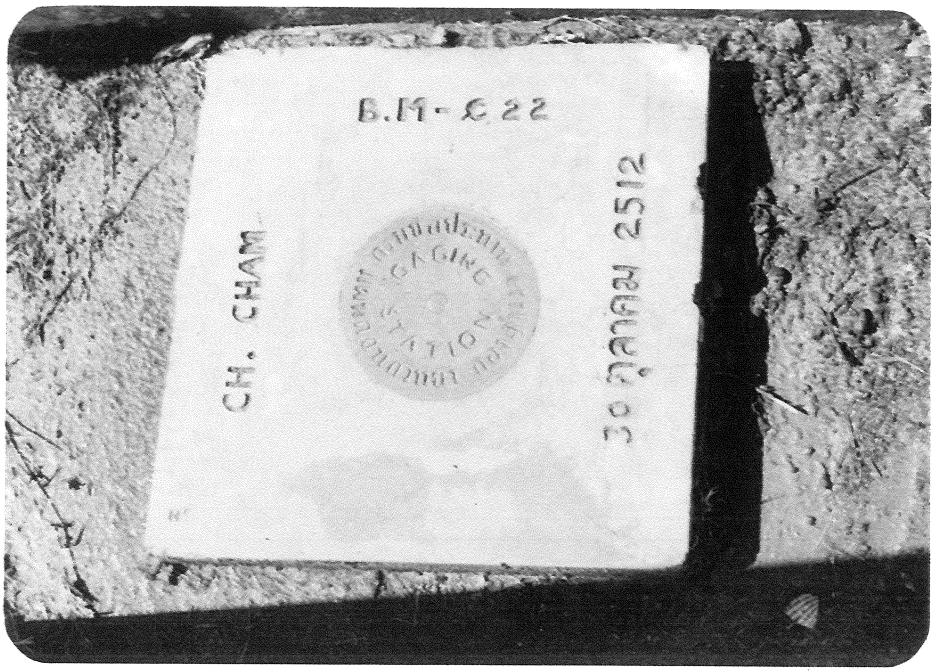


Fig. 3 Standard bench mark



Fig. 4 Close - up of rating operation



Fig. 5 Standard hydrologic equipment

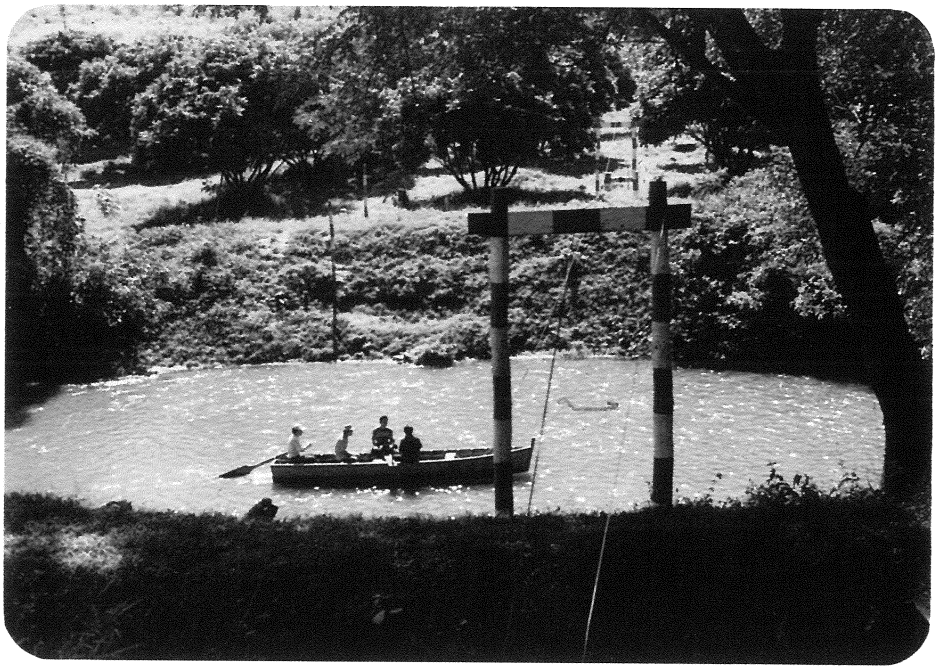


Fig. 6 Measuring line



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 XXVI. 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 letters 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	March 1980
18	1975	182	August 1980
19	1976	184	November 1980
20	1977	192	February 1981
21	1978	210	May 1982
22	1979	237	July 1981
23	1980	231	August 1982
24	1981	213	November 1983
25	1982	224	June 1986
26	1983	235	October 1986
27	1984	242	February 1988
28	1985	232	January 1989
29	1986	245	June 1989
30	1987	271	July 1990
31	1988	267	February 1990

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

STANDARD OF STREAMFLOW DATA PROCUREMENT

****** ** ******

Network design

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

(a) Accessibility.

(b) Geographical location.

(c) Mean annual rainfall.

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

(e) Basin soil type.

(f) Type of surface rock.

Field work

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

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

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

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

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

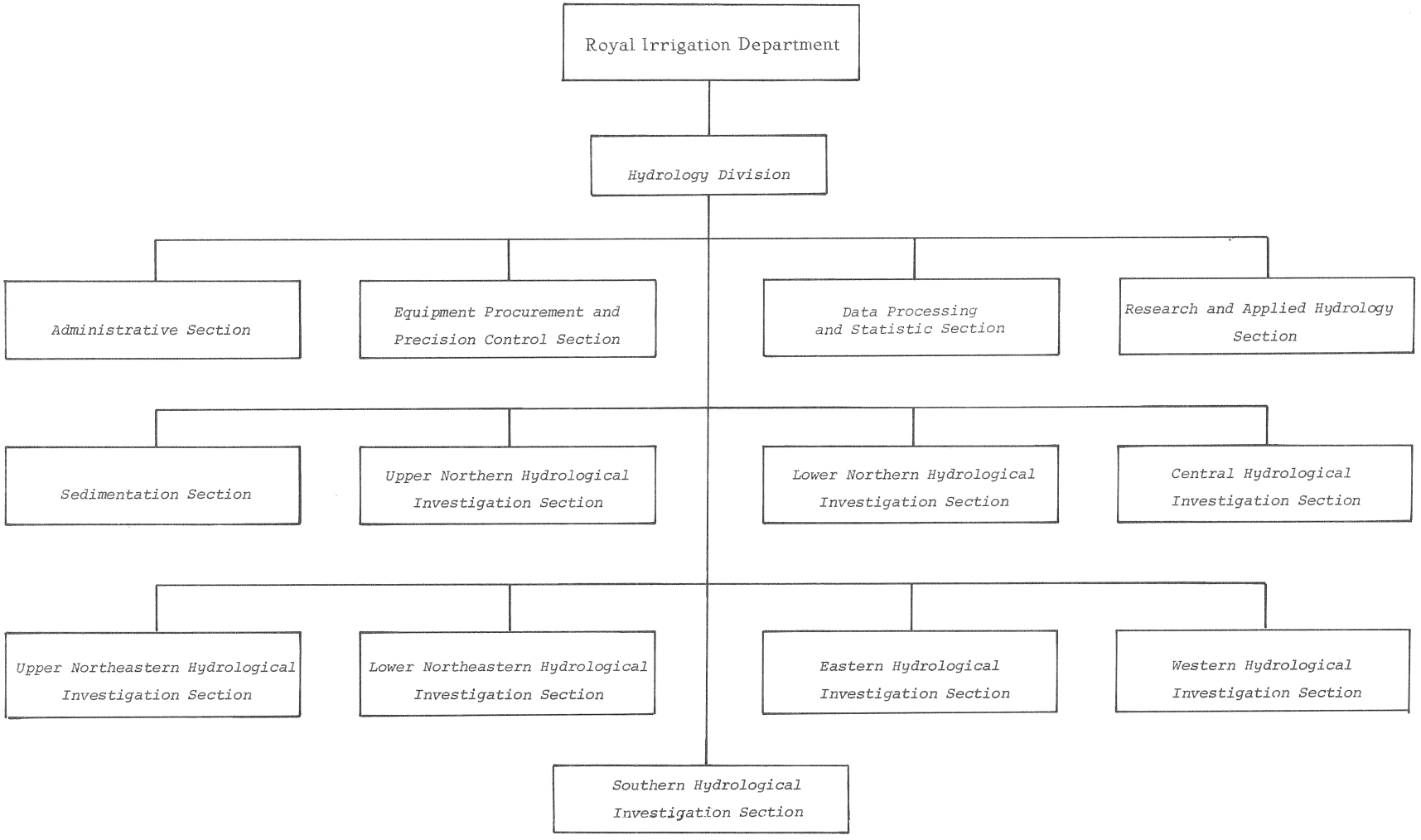
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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 and Statistic 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 - Mary 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 unit 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 1987

WATER YEAR 1987

PING RIVER BASIN

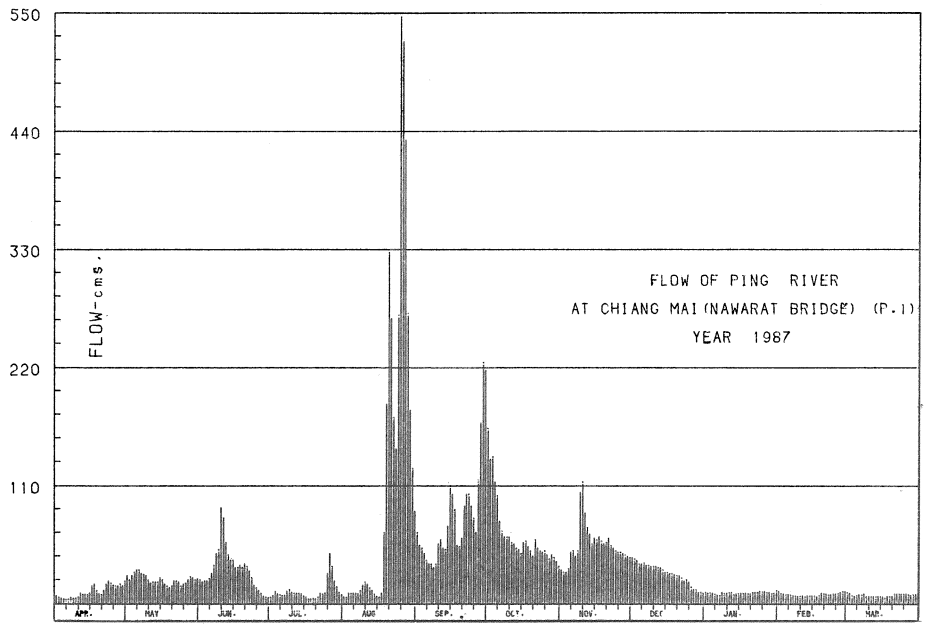
PING RIVER AT CHIANG MAI, CHIANG MAI (P.1)

LOCATION	LAT. 18°-47'-09" N., LONG. 98°-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	+300.500 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+305.31 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1921 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967 TO DATE.
RATED BY FLOAT	1936-1938
RATED BY CURRENT METER	1954-1960, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 11,200 HECTARES AT MAE FAEK WEIR. STAGE-DISCHARGE RELATION DEFINED BY 103 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	301.46	301.68	301.64	301.44	301.44	302.01	302.68	301.73	301.83	301.51	301.52	301.51	
2	301.44	301.64	301.62	301.46	301.44	301.92	302.44	301.71	301.82	301.50	301.50	301.50	
3	301.42	301.68	301.63	301.52	301.50	301.90	302.46	301.71	301.81	301.51	301.49	301.47	
4	301.41	301.71	301.63	301.49	301.50	301.86	302.31	301.74	301.78	301.50	301.48	301.45	
5	301.40	301.73	301.65	301.48	301.50	301.81	302.23	301.87	301.78	301.49	301.48	301.47	
6	301.41	301.73	301.70	301.46	301.50	301.78	302.08	301.88	301.79	301.47	301.48	301.48	
7	301.43	301.70	301.77	301.47	301.49	301.78	302.02	301.84	301.77	301.47	301.46	301.48	
8	301.42	301.69	301.86	301.52	301.53	301.75	301.98	301.88	301.77	301.51	301.46	301.49	
9	301.42	301.68	301.89	301.54	301.59	301.78	301.98	302.25	301.76	301.50	301.45	301.45	
10	301.44	301.64	302.16	301.51	301.62	301.93	301.98	302.31	301.76	301.50	301.46	301.45	
11	301.50	301.61	302.10	301.50	301.60	301.96	301.94	302.13	301.76	301.51	301.46	301.45	
12	301.48	301.62	301.94	301.50	301.56	301.90	301.93	302.04	301.75	301.51	301.45	301.45	
13	301.48	301.62	301.85	301.50	301.53	301.89	301.90	302.00	301.75	301.48	301.46	301.45	
14	301.48	301.62	301.81	301.49	301.49	302.05	301.89	301.93	301.73	301.49	301.46	301.45	
15	301.50	301.66	301.81	301.46	301.45	302.29	301.86	301.97	301.71	301.50	301.46	301.45	
16	301.58	301.64	301.75	301.44	301.44	302.24	301.94	301.96	301.71	301.50	301.46	301.44	
17	301.60	301.60	301.75	301.41	301.50	302.15	301.95	301.98	301.70	301.50	301.44	301.43	
18	301.53	301.58	301.77	301.41	302.01	301.92	301.91	301.95	301.70	301.50	301.47	301.45	
19	301.49	301.56	301.75	301.42	302.85	301.91	301.88	301.93	301.69	301.50	301.50	301.45	
20	301.48	301.58	301.78	301.41	303.74	301.97	301.84	301.94	301.68	301.49	301.50	301.45	
21	301.53	301.63	301.76	301.44	303.38	302.17	301.96	301.97	301.68	301.51	301.49	301.49	
22	301.60	301.63	301.72	301.50	302.76	302.24	301.90	301.92	301.66	301.51	301.48	301.49	
23	301.63	301.62	301.66	301.49	302.52	302.24	301.88	301.90	301.63	301.51	301.48	301.49	
24	301.61	301.58	301.59	301.50	303.40	302.17	301.87	301.88	301.64	301.52	301.49	301.49	
25	301.59	301.60	301.56	301.70	304.86	302.10	301.88	301.87	301.62	301.52	301.49	301.49	
26	301.58	301.61	301.53	301.86	304.77	302.01	301.85	301.87	301.57	301.52	301.50	301.49	
27	301.58	301.64	301.50	301.76	304.31	302.31	301.82	301.86	301.54	301.51	301.51	301.48	
28	301.60	301.67	301.45	301.63	303.41	302.72	301.85	301.85	301.54	301.51	301.52	301.47	
29	301.58	301.66	301.44	301.57	302.81	303.12	301.83	301.84	301.51	301.50	301.52	301.48	
30	301.63	301.64	301.43	301.51	302.38	303.07	301.80	301.83	301.51	301.50		301.48	
31		301.65		301.48	302.14		301.76		301.50	301.53		301.46	
MEAN	301.51	301.64	301.72	301.51	302.29	302.10	301.99	301.92	301.69	301.50	301.48	301.47	
MAX	301.63	301.73	302.16	301.86	304.86	303.12	302.68	302.31	301.83	301.53	301.52	301.51	304.86
MIN	301.40	301.56	301.43	301.41	301.44	301.75	301.76	301.71	301.50	301.47	301.44	301.43	301.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 305.03 M (MSL), AT 23.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 300.50 M (MSL), RIVER BED 299.44 M (MSL)
LEFT BANK ELEVATION 303.48 M (MSL)
RIGHT BANK ELEVATION 305.37 M (MSL), DRAINAGE AREA 6355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.60	26.50	22.50	6.40	6.40	66.50	163.60	31.80	43.25	10.85	11.70	10.85	
2	6.40	22.50	20.50	7.60	6.40	54.60	134.80	29.60	42.00	10.00	10.00	10.00	
3	5.20	26.50	21.50	11.70	10.00	52.00	137.20	29.60	40.75	10.85	9.40	8.20	
4	4.60	29.60	21.50	9.40	10.00	47.00	113.80	32.90	37.30	10.00	8.80	7.00	
5	4.00	31.80	23.50	8.80	10.00	40.75	100.80	48.25	37.30	9.40	8.80	8.20	
6	4.60	31.80	28.50	7.60	10.00	37.30	77.00	49.50	38.40	8.20	8.80	8.80	
7	5.80	28.50	36.20	8.20	9.40	37.30	68.00	44.50	36.20	8.20	7.60	8.80	
8	5.20	27.50	47.00	11.70	12.55	34.00	62.40	49.50	36.20	10.85	7.60	9.40	
9	5.20	26.50	50.75	13.40	17.65	37.30	62.40	104.00	35.10	10.00	7.00	7.00	
10	6.40	22.50	89.60	10.85	20.50	55.90	62.40	113.80	35.10	10.00	7.60	7.00	
11	10.00	19.50	80.00	10.00	18.50	59.80	57.20	84.80	35.10	10.85	7.60	7.00	
12	8.80	20.50	57.20	10.00	15.10	52.00	55.90	71.00	34.00	10.85	7.00	7.00	
13	8.80	20.50	45.75	10.00	12.55	50.75	52.00	65.00	34.00	8.80	7.60	7.00	
14	8.80	20.50	40.75	9.40	9.40	72.50	50.75	55.90	31.80	9.40	7.60	7.00	
15	10.00	24.50	40.75	7.60	7.00	110.40	47.00	61.10	29.60	10.00	7.60	7.00	
16	16.80	22.50	34.00	6.40	6.40	102.40	57.20	59.80	29.60	10.00	7.60	6.40	
17	18.50	18.50	34.00	4.60	10.00	88.00	58.50	62.40	28.50	10.00	6.40	5.80	
18	12.55	16.80	36.20	4.60	66.50	54.60	53.30	58.50	28.50	10.00	8.20	7.00	
19	9.40	15.10	34.00	5.20	186.00	53.30	49.50	55.90	27.50	10.00	10.00	7.00	
20	8.80	16.80	37.30	4.60	327.20	61.10	44.50	57.20	26.50	9.40	10.00	7.00	
21	12.55	21.50	35.10	6.40	265.80	91.20	59.80	61.10	26.50	10.85	9.40	9.40	
22	18.50	21.50	30.70	10.00	173.80	102.40	52.00	54.60	24.50	10.85	8.80	9.40	
23	21.50	20.50	24.50	9.40	144.40	102.40	49.50	52.00	21.50	10.85	8.80	9.40	
24	19.50	16.80	17.65	10.00	269.00	91.20	48.25	49.50	22.50	11.70	9.40	9.40	
25	17.65	18.50	15.10	28.50	546.80	80.00	49.50	48.25	20.50	11.70	9.40	9.40	
26	16.80	19.50	12.55	47.00	526.10	66.50	45.75	48.25	15.95	11.70	10.00	9.40	
27	16.80	22.50	10.00	35.10	432.00	113.80	42.00	47.00	13.40	10.85	10.85	8.80	
28	18.50	25.50	7.00	21.50	270.70	168.60	45.75	45.75	13.40	10.85	11.70	8.20	
29	16.80	24.50	6.40	15.95	180.40	225.00	43.25	44.50	10.85	10.00	11.70	8.80	
30	21.50	22.50	5.80	10.85	126.40	217.50	39.50	43.25	10.85	10.00		8.80	
31		23.50		8.80	86.40		35.10		10.00	12.55		7.60	
TOTAL	347.55	705.70	966.30	371.55	3793.35	2426.10	2018.65	1659.25	876.65	319.55	256.95	252.05	13993.65 CMSDAY
MEAN	11.59	22.76	32.21	11.99	122.37	80.87	65.12	55.31	28.28	10.31	8.86	8.13	38.23 CMS
MAX	21.50	31.80	89.60	47.00	546.80	225.00	163.60	113.80	43.25	12.55	11.70	10.85	546.80 CMS
MIN	4.00	15.10	5.80	4.60	6.40	34.00	35.10	29.60	10.00	8.20	6.40	5.80	4.00 CMS
RUNOFF	30.028	60.972	83.488	32.102	327.745	209.615	174.411	143.359	75.743	27.609	22.200	21.777	1209.052 MCM

MOMENTARY PEAK 589.50 CMS, AT 305.03 M (MSL), AT 23.00 HOURS, ON AUG 25, 1987

RUNOFF YIELD 6.02 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 92.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

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

LOCATION — LAT. 16°-52'-10" 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 — +104.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +115.321 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1952 TO DATE.

RATING OPERATION

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

RATED BY FLOAT

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

STABILITY OF CHANNEL REGIMES — STABLE.

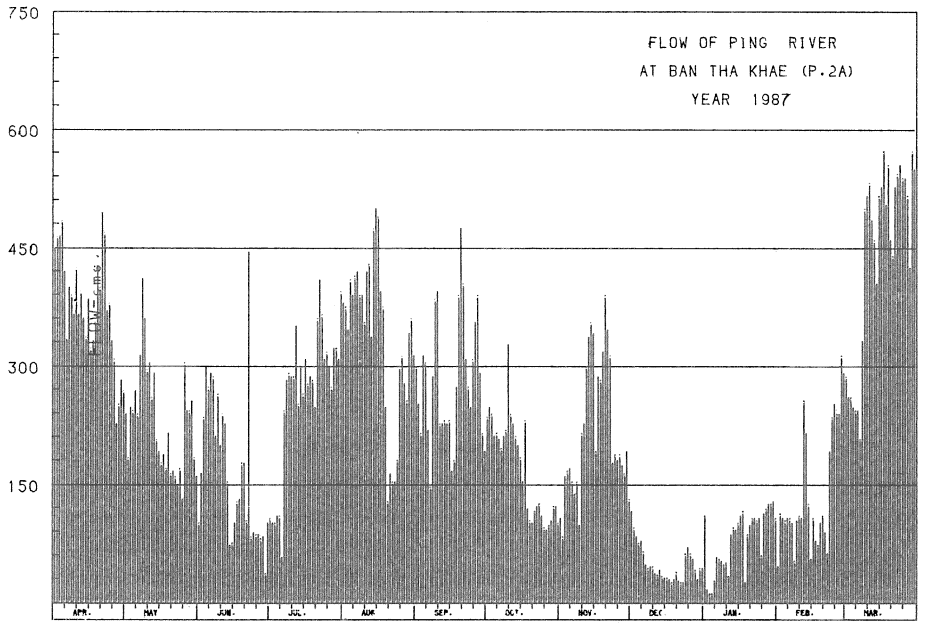
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. FLOW REGULATED BY PHUMIPHOL DAM RESERVOIR SINCE 1964. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 40,300 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	105.89	105.44	105.04	105.06	105.75	105.58	105.43	105.06	105.09	105.07	104.83	105.55	
2	105.92	105.30	105.24	105.04	105.74	105.47	105.46	104.98	105.02	104.67	105.08	105.49	
3	105.92	105.46	105.43	105.04	105.68	105.38	105.44	105.23	104.98	104.63	105.06	105.49	
4	105.96	105.45	105.58	105.07	105.81	105.61	105.37	105.25	104.95	104.63	105.05	105.46	
5	105.83	105.51	105.52	105.07	105.77	105.59	105.38	105.26	104.96	104.74	105.06	105.45	
6	105.66	105.44	105.56	104.88	105.82	105.39	105.36	105.21	104.91	104.88	105.06	105.45	
7	105.79	105.61	105.55	105.45	105.83	105.19	105.33	105.16	104.84	104.87	105.04	105.36	
8	105.77	105.82	105.37	105.54	105.77	105.55	105.37	105.21	104.82	104.86	104.86	105.65	
9	105.72	105.71	105.50	105.56	105.77	105.76	105.39	105.03	104.83	104.84	105.05	105.99	
10	105.84	105.57	105.34	105.55	105.70	105.78	105.64	105.38	104.83	104.85	105.07	106.02	
11	105.72	105.59	105.44	105.55	105.83	105.41	105.44	105.41	104.79	104.77	105.06	106.05	
12	105.78	105.49	105.41	105.69	105.85	105.41	105.41	105.58	104.78	104.99	105.48	105.96	
13	105.71	105.56	105.21	105.47	105.66	105.42	105.37	105.66	104.81	105.02	105.38	105.91	
14	105.66	105.36	104.94	105.58	105.94	105.41	105.34	105.70	104.77	105.01	105.12	105.80	
15	105.76	105.32	104.95	105.50	105.99	105.42	105.30	105.67	104.76	105.04	104.87	106.02	
16	105.63	105.28	105.04	105.60	105.97	105.25	105.21	105.32	104.76	105.07	105.06	106.04	
17	105.65	105.31	105.13	105.53	105.78	105.29	105.42	105.55	104.75	105.09	104.96	106.12	
18	105.70	105.26	105.14	105.55	105.74	105.52	105.10	105.54	104.73	104.73	104.94	106.00	
19	105.84	105.38	105.28	105.54	105.46	105.77	105.05	105.62	104.75	104.99	105.04	106.09	
20	105.79	105.24	105.28	105.46	105.13	105.94	105.04	105.77	104.80	105.03	105.07	105.91	
21	105.98	105.25	105.05	105.71	105.24	105.80	105.09	105.68	104.74	105.06	105.00	105.87	
22	105.93	105.23	105.88	105.81	105.21	105.60	105.11	105.61	104.73	105.06	104.90	106.04	
23	105.73	105.20	104.98	105.72	105.21	105.52	105.12	105.28	104.73	105.05	105.32	106.07	
24	105.75	105.26	105.00	105.60	105.29	105.46	105.07	105.31	104.90	105.06	105.43	106.09	
25	105.65	105.14	104.99	105.62	105.57	105.60	105.02	105.29	104.93	104.89	105.47	106.06	
26	105.60	105.59	104.99	105.58	105.61	105.70	105.01	105.31	104.90	105.08	105.44	106.06	
27	105.41	105.45	104.97	105.52	105.53	105.77	105.03	105.27	104.87	105.10	105.44	106.02	
28	105.47	105.45	104.98	105.63	105.48	105.56	105.05	105.24	104.81	105.12	105.61	105.84	
29	105.54	105.48	104.79	105.63	105.67	105.38	105.11	105.32	104.75	105.12	105.56	106.12	
30	105.51	105.30	105.04	105.60	105.71	105.32	105.11	105.14	104.82	105.13		106.08	
31		105.23		105.78	105.61		105.04		104.82	105.06		106.13	
MEAN	105.74	105.41	105.22	105.48	105.65	105.53	105.25	105.37	104.84	104.95	105.15	105.88	
MAX	105.98	105.82	105.88	105.81	105.99	105.94	105.64	105.77	105.09	105.13	105.61	106.13	106.13
MIN	105.41	105.14	104.79	104.88	105.13	105.19	105.01	104.98	104.73	104.63	104.83	105.36	104.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 106.29 M (MSL), AT 9.00 HOURS, ON AUG 16, 1987
ZERO GAGE AT BOTTOM ELEVATION 104.00 M (MSL), RIVER BED 102.87 M (MSL)
LEFT BANK ELEVATION 110.02 M (MSL)
RIGHT BANK ELEVATION 109.80 M (MSL), DRAINAGE AREA 38862 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	450.0	239.8	101.5	107.5	380.5	300.2	235.6	107.5	116.5	110.5	46.4	287.0	
2	465.0	184.5	164.1	101.5	375.6	252.4	248.2	84.1	95.5	16.8	113.5	260.8	
3	465.0	248.2	235.6	101.5	346.6	215.3	239.8	160.7	84.1	11.7	107.5	260.8	
4	485.0	244.0	300.2	110.5	410.0	313.7	211.5	167.5	76.0	11.7	104.5	248.2	
5	420.0	269.4	273.8	110.5	390.3	304.6	215.3	170.9	78.7	28.1	107.5	244.0	
6	337.2	239.8	291.4	57.9	415.0	219.1	207.6	153.9	65.2	57.9	107.5	244.0	
7	400.1	313.7	287.0	244.0	420.0	147.4	196.0	138.1	48.7	55.6	101.5	207.6	
8	390.3	415.0	211.5	282.6	390.3	287.0	211.5	153.9	44.1	53.3	53.3	332.5	
9	365.8	360.9	265.0	291.4	390.3	385.4	219.1	98.5	46.4	48.7	104.5	500.0	
10	425.0	295.8	199.9	287.0	356.0	395.2	327.8	215.3	46.4	51.0	110.5	516.2	
11	365.8	304.6	239.8	287.0	420.0	227.2	239.8	227.2	37.6	33.8	107.5	533.0	
12	395.2	260.8	227.2	351.3	430.0	227.2	227.2	300.2	35.7	86.8	256.6	485.0	
13	360.9	291.4	153.9	252.4	337.2	231.4	211.5	337.2	41.8	95.5	215.3	460.0	
14	337.2	207.6	73.3	300.2	475.0	227.2	199.9	356.0	33.8	92.5	125.7	405.0	
15	385.4	192.2	76.0	265.0	500.0	231.4	184.5	341.9	31.9	101.5	55.6	516.2	
16	323.1	177.7	101.5	309.0	490.0	167.5	153.9	192.2	31.9	110.5	107.5	527.4	
17	332.5	188.3	128.8	278.2	395.2	181.1	231.4	287.0	30.0	116.5	78.7	572.9	
18	356.0	170.9	131.9	287.0	375.6	273.8	119.5	282.6	26.2	26.2	73.3	505.0	
19	425.0	215.3	177.7	282.6	248.2	390.3	104.5	318.4	30.0	86.8	101.5	555.4	
20	400.1	164.1	177.7	248.2	128.8	475.0	101.5	390.3	39.5	98.5	110.5	460.0	
21	495.0	167.5	104.5	360.9	164.1	405.0	116.5	346.6	28.1	107.5	89.5	440.0	
22	470.0	160.7	445.0	410.0	153.9	309.0	122.6	313.7	26.2	107.5	62.5	527.4	
23	370.7	150.5	84.1	365.8	153.9	273.8	125.7	177.7	26.2	104.5	192.2	544.2	
24	380.5	170.9	89.5	309.0	181.1	248.2	110.5	188.3	62.5	107.5	235.6	555.4	
25	332.5	131.9	86.8	318.4	295.8	309.0	95.5	181.1	70.6	60.2	252.4	538.6	
26	309.0	304.6	86.8	300.2	313.7	356.0	92.5	188.3	62.5	113.5	239.8	538.6	
27	227.2	244.0	81.4	273.8	278.2	390.3	98.5	174.3	55.6	119.5	239.8	516.2	
28	252.4	244.0	84.1	323.1	256.6	291.4	104.5	164.1	41.8	125.7	313.7	425.0	
29	282.6	256.6	37.6	323.1	341.9	215.3	122.6	192.2	30.0	125.7	291.4	572.9	
30	269.4	184.5	101.5	309.0	360.9	192.2	122.6	131.9	44.1	128.8		549.8	
31		160.7		395.2	313.7		101.5		44.1	107.5		578.9	
TOTAL	11273.9	7159.9	5019.1	8243.8	10488.4	8442.6	5299.1	6541.6	1531.7	2501.8	4105.8	13908.0	84515.7 CMSDAY
MEAN	375.8	231.0	167.3	265.9	338.3	281.4	170.9	218.1	49.4	80.7	141.6	448.6	230.9 CMS
MAX	495.0	415.0	445.0	410.0	500.0	475.0	327.8	390.3	116.5	128.8	313.7	578.9	578.9 CMS
MIN	227.2	131.9	37.6	57.9	128.8	147.4	92.5	84.1	26.2	11.7	46.4	207.6	11.7 CMS
RUNOFF	974.07	618.62	433.65	712.26	906.20	729.44	457.84	565.19	132.34	216.16	354.74	1201.65	7302.16 MCM

MOMENTARY PEAK 674.37 CMS, AT 106.29 M (MSL), AT 9.00 HOURS, ON AUG 16, 1987
RUNOFF YIELD 5.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +333.745 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — IN THE VICINITY OF AMPHOE MAE TAENG OFFICE.

ELEVATION — +338.736 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1955 TO DATE.

RATING OPERATION

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

RATED BY FLOAT — -

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

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.

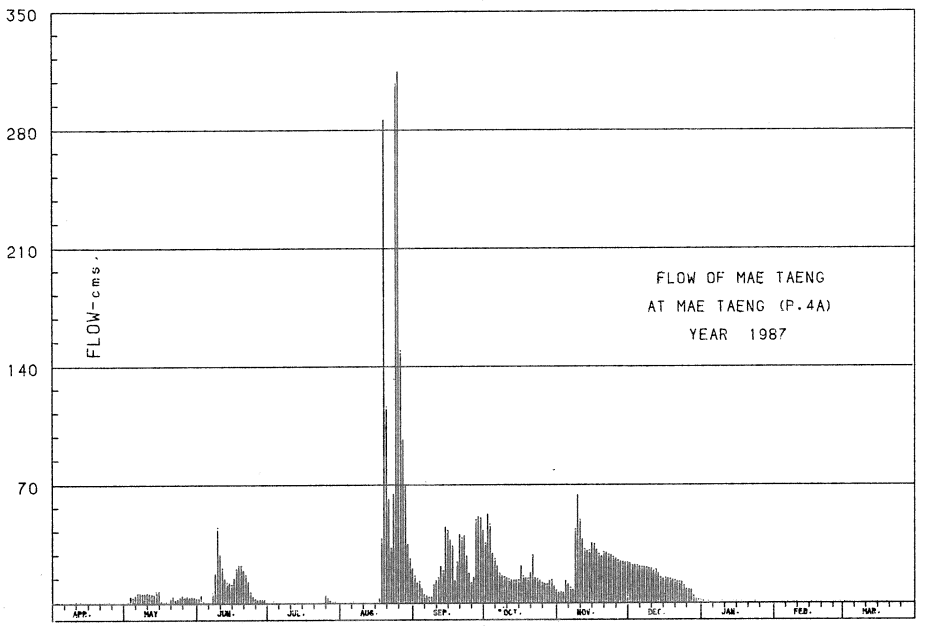
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 23,700 HECTARES AT MAE TAENG WIER. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	334.72	334.69	335.10	334.90	334.85	335.79	336.37	335.42	336.03	335.15	335.12	335.10	
2	334.71	334.78	335.24	334.92	334.85	335.65	336.78	335.44	335.99	335.15	335.11	335.10	
3	334.71	335.20	334.86	334.91	334.85	335.68	336.65	335.42	336.00	335.15	335.10	335.09	
4	334.71	335.14	334.83	334.90	334.85	335.52	336.20	335.69	335.99	335.15	335.10	335.08	
5	334.70	335.24	334.81	334.88	334.87	335.38	336.11	335.62	335.97	335.15	335.10	335.08	
6	334.70	335.33	334.90	334.87	334.89	335.34	335.98	335.54	335.96	335.15	335.09	335.07	
7	334.71	335.32	335.35	334.92	334.88	335.31	335.84	335.49	335.96	335.14	335.09	335.06	
8	334.70	335.31	335.83	334.87	334.89	335.31	335.79	336.58	335.95	335.14	335.09	335.06	
9	334.70	335.31	336.61	334.85	334.88	335.61	335.77	336.98	335.94	335.14	335.09	335.06	
10	334.82	335.33	336.18	334.84	334.86	335.70	335.75	336.71	335.93	335.13	335.09	335.06	
11	334.82	335.31	335.94	334.85	334.85	335.75	335.73	336.43	335.89	335.13	335.09	335.05	
12	334.82	335.29	335.72	334.85	334.84	335.97	335.71	336.27	335.91	335.13	335.10	335.05	
13	334.83	335.27	335.64	334.84	334.84	335.89	335.70	336.24	335.84	335.13	335.10	335.05	
14	334.83	335.33	335.62	334.83	334.82	336.61	335.71	336.25	335.76	335.14	335.10	335.05	
15	334.74	335.40	335.59	334.83	334.81	336.56	335.71	336.37	335.73	335.13	335.10	335.05	
16	334.74	334.89	335.73	334.83	334.81	336.42	335.98	336.35	335.75	335.13	335.09	335.05	
17	334.75	334.87	335.93	334.84	335.25	336.32	335.79	336.26	335.74	335.12	335.08	335.05	
18	334.73	334.86	335.99	334.84	336.44	335.69	335.75	336.19	335.73	335.12	335.08	335.06	
19	334.73	334.84	335.99	334.84	338.06	336.05	335.74	336.15	335.71	335.12	335.09	335.06	
20	334.73	335.21	335.90	334.84	337.43	336.50	335.85	336.22	335.70	335.12	335.08	335.06	
21	334.73	335.19	335.81	334.85	336.94	336.45	336.17	336.21	335.68	335.12	335.07	335.06	
22	334.72	335.00	335.65	334.85	336.29	336.48	335.75	336.18	335.67	335.13	335.07	335.07	
23	334.76	335.06	335.37	334.84	336.99	336.15	335.73	336.17	335.66	335.13	335.07	335.06	
24	334.78	335.15	335.20	334.87	338.12	335.84	335.70	336.14	335.59	335.12	335.06	335.06	
25	334.71	335.23	335.09	335.30	338.14	335.65	335.65	336.11	335.50	335.12	335.06	335.06	
26	334.69	335.16	335.00	335.12	337.59	335.76	335.63	336.08	335.49	335.12	335.08	335.05	
27	334.69	335.20	335.04	334.95	337.32	336.71	335.62	336.06	335.48	335.12	335.12	335.05	
28	334.69	335.16	335.03	334.91	337.06	336.75	335.69	336.05	335.34	335.12	335.16	335.05	
29	334.68	335.17	335.01	334.87	336.35	336.73	335.71	336.04	335.23	335.12	335.16	335.05	
30	334.68	335.16	334.93	334.85	336.11	336.56	335.57	336.04	335.21	335.12		335.05	
31		335.10		334.85	335.93		335.48		335.21	335.13		335.05	
MEAN	334.73	335.15	335.46	334.89	335.86	336.00	335.86	336.09	335.73	335.13	335.09	335.06	
MAX	334.83	335.40	336.61	335.30	338.14	336.75	336.78	336.98	336.03	335.15	335.16	335.10	338.14
MIN	334.68	334.69	334.81	334.83	334.81	335.31	335.48	335.42	335.21	335.12	335.06	335.05	334.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 338.41 M (MSL), AT 22.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 333.75 M (MSL), RIVER BED 334.83 M (MSL)
LEFT BANK ELEVATION 339.08 M (MSL)
RIGHT BANK ELEVATION 338.21 M (MSL), DRAINAGE AREA 1902 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.19	2.50	0.97	0.75	16.00	35.42	6.00	23.49	1.02	0.71	0.50	
2	0.24	0.46	4.24	1.10	0.75	11.90	52.58	6.50	22.18	1.02	0.60	0.50	
3	0.24	3.65	0.79	1.04	0.75	12.74	46.70	6.00	22.50	1.02	0.50	0.47	
4	0.24	2.96	0.65	0.97	0.75	8.50	29.30	13.02	22.18	1.02	0.50	0.44	
5	0.21	4.24	0.57	0.88	0.84	5.04	26.15	11.06	21.54	1.02	0.50	0.44	
6	0.21	5.68	0.97	0.84	0.93	4.12	21.86	9.00	21.22	1.02	0.47	0.42	
7	0.24	5.50	6.06	1.10	0.88	3.43	17.50	7.75	21.22	0.92	0.47	0.39	
8	0.21	5.31	17.27	0.84	0.93	3.43	16.00	43.70	20.90	0.92	0.47	0.39	
9	0.21	5.31	44.94	0.75	0.88	10.78	15.40	63.80	20.58	0.92	0.47	0.39	
10	0.61	5.68	28.52	0.70	0.79	13.30	14.80	49.36	20.26	0.81	0.47	0.39	
11	0.61	5.31	20.58	0.75	0.75	14.80	14.20	37.70	19.00	0.81	0.47	0.36	
12	0.61	4.97	14.32	0.75	0.70	21.54	13.60	31.82	19.62	0.81	0.50	0.36	
13	0.65	4.68	12.24	0.70	0.70	19.00	13.30	30.74	17.50	0.81	0.50	0.36	
14	0.65	5.68	11.72	0.65	0.61	44.94	13.60	31.10	15.10	0.92	0.50	0.36	
15	0.33	7.00	10.98	0.65	0.57	42.90	13.60	35.42	14.20	0.81	0.50	0.36	
16	0.33	0.93	14.58	0.65	0.57	37.30	21.86	34.70	14.80	0.81	0.47	0.36	
17	0.37	0.84	20.26	0.70	2.38	33.62	16.00	31.46	14.50	0.71	0.44	0.36	
18	0.30	0.79	22.18	0.70	38.10	13.02	14.80	28.95	14.20	0.71	0.44	0.39	
19	0.30	0.70	22.18	0.70	286.00	24.15	14.50	27.55	13.60	0.71	0.47	0.39	
20	0.30	3.80	19.30	0.70	116.20	40.50	17.80	30.02	13.30	0.71	0.44	0.39	
21	0.30	3.53	16.69	0.75	61.40	38.50	28.25	29.66	12.74	0.71	0.42	0.39	
22	0.27	1.62	12.50	0.75	32.54	39.70	14.80	28.60	12.46	0.81	0.42	0.42	
23	0.40	2.15	6.44	0.70	64.40	27.55	14.20	28.25	12.18	0.81	0.42	0.39	
24	0.46	3.07	3.65	0.84	307.20	17.50	13.30	27.20	10.25	0.71	0.39	0.39	
25	0.24	4.09	2.41	5.12	314.40	11.90	11.90	26.15	8.00	0.71	0.39	0.39	
26	0.19	3.19	1.62	2.73	149.30	15.10	11.34	25.14	7.75	0.71	0.44	0.36	
27	0.19	3.65	1.97	1.30	96.50	49.36	11.06	24.48	7.50	0.71	0.71	0.36	
28	0.19	3.19	1.88	1.04	68.90	51.20	13.02	24.15	4.12	0.71	1.13	0.36	
29	0.17	3.31	1.71	0.84	34.70	50.28	13.60	23.82	2.05	0.71	1.13	0.36	
30	0.17	3.19	1.16	0.75	26.15	42.90	9.75	23.82	1.71	0.71		0.36	
31		2.50		0.75	20.26		7.50		1.71	0.81		0.36	
TOTAL	9.71	107.17	324.88	31.71	1630.58	725.00	577.69	796.92	452.36	25.61	15.34	12.16	4709.13 CMSDAY
MEAN	0.32	3.46	10.83	1.02	52.60	24.17	18.64	26.56	14.59	0.83	0.53	0.39	12.87 CMS
MAX	0.65	7.00	44.94	5.12	314.40	51.20	52.58	63.80	23.49	1.02	1.13	0.50	314.40 CMS
MIN	0.17	0.19	0.57	0.65	0.57	3.43	7.50	6.00	1.71	0.71	0.39	0.36	0.17 CMS
RUNOFF	0.839	9.259	28.070	2.740	140.882	62.640	49.912	68.854	39.084	2.213	1.325	1.051	406.869 MCM

MOMENTARY PEAK 415.80 CMS, AT 338.41 M (MSL), AT 22.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 6.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 218.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

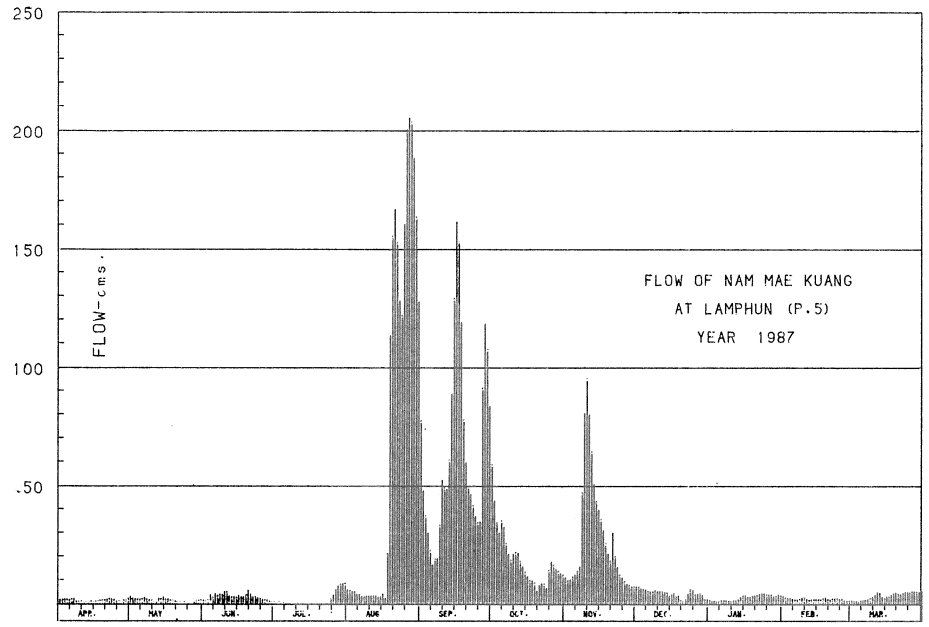
NAM MAE KUANG AT LAMPHUN, LAMPHUN (P.5)

LOCATION	LAT. 18°-34'-32" N., LONG. 99°-00'-44" E., ON RIGHT BANK ABOUT 10 METERS DOWNSTREAM FROM THA SING PHITAK BRIDGE, AMPHOE MUANG, LAMPHUN.
DRAINAGE AREA	1,569 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+288.50 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	+295.560 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 9,600 HECTARES AT MAE KUANG WEIR. STAGE-DISCHARGE RELATION DEFINED BY 43 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	289.20	289.31	289.18	289.15	289.53	292.13	291.67	289.87	289.62	289.18	289.32	289.16	
2	289.21	289.26	289.16	289.15	289.51	291.36	291.23	289.79	289.61	289.14	289.28	289.15	
3	289.22	289.23	289.20	289.13	289.47	291.03	290.93	289.81	289.56	289.14	289.26	289.13	
4	289.22	289.22	289.37	289.13	289.48	290.77	290.77	289.89	289.54	289.13	289.25	289.09	
5	289.20	289.22	289.29	289.09	289.38	290.47	290.96	289.94	289.53	289.13	289.22	289.15	
6	289.24	289.24	289.41	289.08	289.39	290.17	290.86	290.03	289.49	289.17	289.20	289.17	
7	289.23	289.27	289.36	289.10	289.31	290.30	290.60	290.13	289.47	289.17	289.18	289.19	
8	289.15	289.23	289.40	289.09	289.30	290.31	290.40	291.34	289.48	289.17	289.22	289.20	
9	289.14	289.19	289.38	289.08	289.33	290.89	290.28	292.20	289.51	289.15	289.26	289.25	
10	289.15	289.18	289.48	289.06	289.33	291.49	290.40	292.54	289.48	289.15	289.28	289.29	
11	289.13	289.14	289.48	289.09	289.33	291.40	290.43	292.19	289.48	289.16	289.22	289.36	
12	289.13	289.21	289.33	289.10	289.34	291.38	290.41	291.81	289.48	289.17	289.19	289.45	
13	289.14	289.24	289.31	289.06	289.33	291.72	290.26	291.44	289.45	289.20	289.20	289.43	
14	289.15	289.24	289.31	289.06	289.29	292.39	290.13	291.23	289.44	289.28	289.21	289.29	
15	289.15	289.29	289.30	289.06	289.30	293.23	290.01	291.11	289.33	289.34	289.21	289.25	
16	289.14	289.22	289.35	289.06	289.40	293.84	289.90	290.98	289.38	289.34	289.21	289.30	
17	289.16	289.22	289.31	289.08	289.24	293.69	289.80	290.81	289.42	289.29	289.20	289.31	
18	289.18	289.19	289.30	289.08	290.41	293.03	289.79	290.60	289.32	289.29	289.24	289.36	
19	289.19	289.17	289.38	289.09	292.92	292.14	289.73	290.40	289.33	289.33	289.27	289.41	
20	289.20	289.14	289.51	289.05	293.73	291.69	289.49	290.26	289.19	289.34	289.22	289.43	
21	289.22	289.13	289.40	289.03	293.94	291.42	289.65	290.77	289.15	289.36	289.19	289.41	
22	289.25	289.13	289.29	289.03	293.68	291.32	289.70	290.35	289.31	289.39	289.23	289.38	
23	289.22	289.14	289.32	289.03	293.21	291.17	289.70	290.12	289.39	289.41	289.23	289.43	
24	289.21	289.12	289.27	289.04	293.09	291.02	289.57	289.94	289.55	289.41	289.25	289.46	
25	289.16	289.06	289.25	289.26	293.82	290.93	290.06	289.86	289.52	289.38	289.21	289.45	
26	289.15	289.06	289.21	289.36	294.56	290.94	290.24	289.77	289.38	289.37	289.23	289.44	
27	289.15	289.12	289.20	289.53	294.65	292.45	290.17	289.69	289.39	289.38	289.16	289.48	
28	289.19	289.21	289.19	289.64	294.62	293.02	290.08	289.66	289.42	289.30	289.15	289.47	
29	289.18	289.18	289.14	289.69	294.34	292.80	290.03	289.62	289.36	289.33	289.16	289.47	
30	289.25	289.17	289.13	289.71	293.88	292.27	289.97	289.62	289.21	289.37		289.46	
31		289.20		289.72	293.20		289.94		289.20	289.35		289.48	
MEAN	289.18	289.19	289.31	289.19	291.27	291.69	290.23	290.53	289.42	289.27	289.22	289.33	
MAX	289.25	289.31	289.51	289.72	294.65	293.84	291.67	292.54	289.62	289.41	289.32	289.48	294.65
MIN	289.13	289.06	289.13	289.03	289.24	290.17	289.49	289.62	289.15	289.13	289.15	289.09	289.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 294.67 M (MSL), AT 6.00 HOURS, ON AUG 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 288.50 M (MSL), RIVER BED 288.60 M (MSL)
LEFT BANK ELEVATION 293.46 M (MSL)
RIGHT BANK ELEVATION 294.56 M (MSL), DRAINAGE AREA 1569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.88	3.13	1.65	1.31	6.05	77.59	59.06	11.26	7.40	1.65	3.25	1.43	
2	1.99	2.55	1.43	1.31	5.75	47.84	43.56	9.95	7.25	1.20	2.78	1.31	
3	2.10	2.21	1.88	1.09	5.20	37.40	34.54	10.27	6.50	1.20	2.55	1.09	
4	2.10	2.10	3.88	1.09	5.33	30.12	30.12	11.59	6.20	1.09	2.44	0.67	
5	1.88	2.10	2.89	0.67	4.00	22.81	35.38	12.41	6.05	1.09	2.10	1.31	
6	2.32	2.32	4.39	0.60	4.13	16.55	32.58	13.95	5.46	1.54	1.88	1.54	
7	2.21	2.66	3.75	0.75	3.13	19.10	25.80	15.80	5.20	1.54	1.65	1.76	
8	1.31	2.21	4.25	0.67	3.00	19.31	21.20	47.16	5.33	1.54	2.10	1.88	
9	1.20	1.76	4.00	0.60	3.37	33.42	18.70	80.60	5.75	1.31	2.55	2.44	
10	1.31	1.65	5.33	0.45	3.37	52.44	21.20	95.55	5.33	1.31	2.78	2.89	
11	1.09	1.20	5.33	0.67	3.37	49.20	21.89	80.17	5.33	1.43	2.10	3.75	
12	1.09	1.99	3.37	0.75	3.50	48.52	21.43	64.49	5.33	1.54	1.76	4.93	
13	1.20	2.32	3.13	0.45	3.37	60.98	18.30	50.64	4.93	1.88	1.88	4.65	
14	1.31	2.32	3.13	0.45	2.89	88.82	15.80	43.56	4.79	2.78	1.99	2.89	
15	1.31	2.89	3.00	0.45	3.00	129.23	13.59	39.81	3.37	3.50	1.99	2.44	
16	1.20	2.10	3.63	0.45	4.25	161.44	11.75	35.94	4.00	3.50	1.99	3.00	
17	1.43	2.10	3.13	0.60	2.32	153.42	10.10	31.18	4.52	2.89	1.88	3.13	
18	1.65	1.76	3.00	0.60	21.43	119.03	9.95	25.80	3.25	2.89	2.32	3.75	
19	1.76	1.54	4.00	0.67	113.50	78.02	9.05	21.20	3.37	3.37	2.66	4.39	
20	1.88	1.20	5.75	0.37	155.56	59.82	5.46	18.30	1.76	3.50	2.10	4.65	
21	2.10	1.09	4.25	0.22	166.79	49.92	7.85	30.12	1.31	3.75	1.76	4.39	
22	2.44	1.09	2.89	0.22	152.88	46.48	8.60	20.15	3.13	4.13	2.21	4.00	
23	2.10	1.20	3.25	0.22	128.21	41.67	8.60	15.62	4.13	4.39	2.21	4.65	
24	1.99	0.97	2.66	0.30	122.09	37.10	6.65	12.41	6.35	4.39	2.44	5.06	
25	1.43	0.45	2.44	2.55	160.37	34.54	14.51	11.09	5.90	4.00	1.99	4.93	
26	1.31	0.45	1.99	3.75	200.40	34.82	17.90	9.65	4.00	3.88	2.21	4.79	
27	1.31	0.97	1.88	6.05	205.35	91.50	16.55	8.45	4.13	4.00	1.43	5.33	
28	1.76	1.99	1.76	7.70	203.70	118.52	14.88	8.00	4.52	3.00	1.31	5.20	
29	1.65	1.65	1.20	8.45	188.30	107.75	13.95	7.40	3.75	3.37	1.43	5.20	
30	2.44	1.54	1.09	8.75	163.58	83.61	12.91	7.40	1.99	3.88		5.06	
31		1.88		8.90	127.70		12.41		1.88	3.63		5.33	
TOTAL	50.75	55.39	94.33	61.11	2175.89	1950.97	594.27	849.92	142.21	83.17	61.74	107.84	6227.59 CMSDAY
MEAN	1.69	1.79	3.14	1.97	70.19	65.03	19.17	28.33	4.59	2.68	2.13	3.48	17.02 CMS
MAX	2.44	3.13	5.75	8.90	205.35	161.44	59.06	95.55	7.40	4.39	3.25	5.33	205.35 CMS
MIN	1.09	0.45	1.09	0.22	2.32	16.55	5.46	7.40	1.31	1.09	1.31	0.67	0.22 CMS
RUNOFF	4.385	4.786	8.150	5.280	187.997	168.564	51.345	73.433	12.287	7.186	5.334	9.317	538.064 MCM

MOMENTARY PEAK 206.45 CMS, AT 294.67 M (MSL), AT 6.00 HOURS, ON AUG 28, 1987
RUNOFF YIELD 10.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 131.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

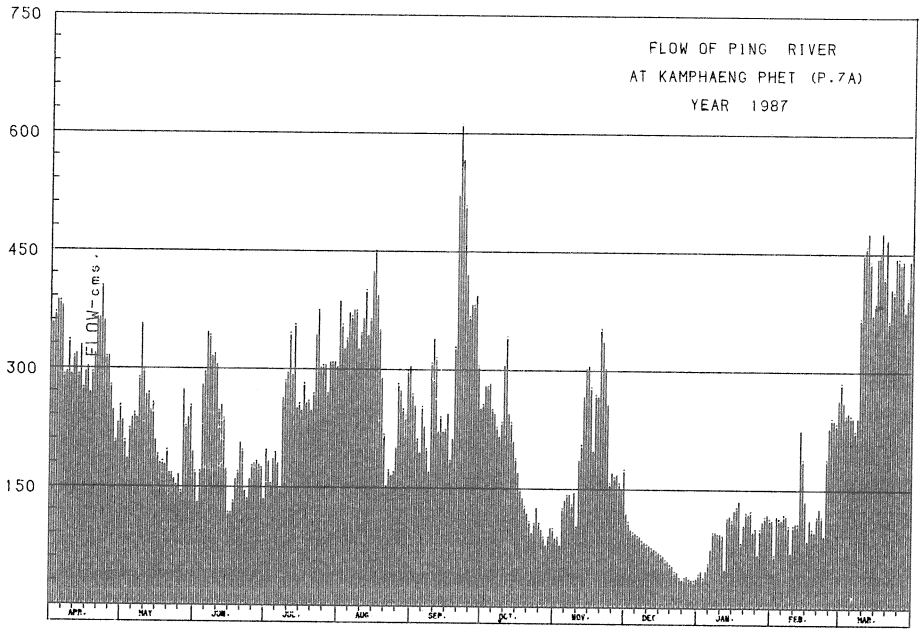
PING RIVER AT KAMPHAENG PHET, KAMPHAENG PHET (P.7A)

LOCATION	LAT. 16°-28'-38" N., LONG. 99°-31'-06" E., ON RIGHT BANK ABOUT 100 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY AT BAN NAKHON CHUM, AMPHOE MUANG, KAMPHAENG PHET.
DRAINAGE AREA	42,700 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+72.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+77.717 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1960 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1960-1961, 1967 TO DATE.
RATED BY FLOAT	
RATED BY CURRENT METER	1960-1961, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW COMPLETELY REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION ABOUT 40,300 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	74.23	73.86	73.64	73.74	74.31	73.97	73.93	73.29	73.43	73.08	73.40	74.02	
2	74.27	73.78	73.48	73.69	74.23	73.92	74.00	73.30	73.39	73.10	73.20	73.94	
3	74.31	73.70	73.64	73.58	74.14	73.79	74.00	73.25	73.34	73.05	73.42	73.89	
4	74.31	73.83	74.00	73.70	74.18	73.73	74.01	73.46	73.33	73.10	73.41	73.90	
5	74.29	73.87	74.05	73.73	74.27	73.92	73.91	73.50	73.32	73.15	73.40	73.89	
6	74.04	73.89	74.20	73.68	74.26	73.84	73.89	73.53	73.31	73.23	73.43	73.88	
7	74.05	73.87	74.19	73.56	74.28	73.75	73.84	73.53	73.30	73.33	73.42	73.83	
8	74.17	74.03	74.11	73.95	74.28	73.64	73.80	73.48	73.28	73.33	73.37	73.88	
9	74.04	74.23	74.12	74.02	74.14	74.09	73.86	73.54	73.27	73.32	73.21	74.26	
10	74.11	74.06	74.08	74.05	74.20	74.18	74.08	73.36	73.26	73.32	73.37	74.47	
11	74.12	73.96	73.90	74.20	74.25	74.11	74.19	73.70	73.25	73.31	73.38	74.50	
12	74.04	73.97	73.92	74.04	74.35	73.82	73.89	73.77	73.24	73.11	73.38	74.54	
13	74.15	73.90	73.87	74.23	74.19	73.88	73.86	73.96	73.23	73.41	73.83	74.45	
14	73.99	73.93	73.65	73.91	74.25	73.82	73.78	74.07	73.22	73.42	73.71	74.27	
15	74.05	73.78	73.43	73.93	74.41	73.83	73.71	74.08	73.21	73.40	73.50	74.31	
16	74.07	73.72	73.43	73.90	74.48	73.89	73.64	74.00	73.20	73.45	73.28	74.46	
17	73.97	73.68	73.49	74.01	74.33	73.70	73.56	73.74	73.19	73.47	73.40	74.47	
18	74.05	73.69	73.60	73.93	74.21	73.79	73.51	73.97	73.17	73.50	73.35	74.54	
19	74.12	73.67	73.64	73.94	74.03	74.15	73.47	73.96	73.16	73.27	73.33	74.40	
20	74.25	73.74	73.77	73.90	73.81	74.65	73.43	74.22	73.14	73.37	73.42	74.52	
21	74.25	73.63	73.74	73.97	73.57	74.87	73.39	74.17	73.13	73.44	73.46	74.25	
22	74.36	73.63	73.54	74.19	73.65	74.76	73.32	74.07	73.10	73.43	73.42	74.36	
23	74.24	73.60	73.50	74.28	73.62	74.62	73.38	73.93	73.09	73.45	73.31	74.35	
24	74.11	73.57	73.60	74.07	73.64	74.40	73.46	73.59	73.05	73.33	73.71	74.46	
25	74.11	73.62	73.67	74.08	73.75	74.26	73.38	73.64	73.03	73.35	73.84	74.46	
26	74.00	73.54	73.68	74.08	74.01	74.30	73.34	73.62	73.05	73.20	73.88	74.44	
27	73.90	73.98	73.69	73.97	73.98	74.30	73.30	73.63	73.06	73.35	73.87	74.45	
28	73.78	73.84	73.67	74.09	73.91	74.33	73.25	73.59	73.04	73.39	73.86	74.28	
29	73.85	73.87	73.66	74.09	73.89	74.08	73.30	73.56	73.03	73.42	73.95	74.33	
30	73.92	73.92	73.50	74.09	74.06	73.91	73.35	73.66	73.03	73.43		74.45	
31		73.73		74.07	74.08		73.35		73.04	73.41		74.42	
MEAN	74.10	73.81	73.75	73.96	74.09	74.08	73.65	73.71	73.19	73.32	73.50	74.28	
MAX	74.36	74.23	74.20	74.28	74.48	74.87	74.19	74.22	73.43	73.50	73.95	74.54	74.87
MIN	73.78	73.54	73.43	73.56	73.57	73.64	73.25	73.25	73.03	73.05	73.20	73.83	73.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 74.90 M (MSL), AT 20.00 HOURS, ON SEP 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 72.00 M (MSL), RIVER BED 71.76 M (MSL)
LEFT BANK ELEVATION 78.03 M (MSL)
RIGHT BANK ELEVATION 77.52 M (MSL), DRAINAGE AREA 42700 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	356.8	234.2	170.2	197.3	385.8	269.4	256.6	86.8	118.2	42.8	111.0	285.6	
2	371.2	209.1	130.2	183.0	356.8	253.4	279.0	89.0	108.8	46.0	67.0	259.8	
3	385.8	185.5	170.2	155.0	325.6	212.0	279.0	78.0	97.8	38.0	115.8	243.8	
4	385.8	224.6	279.0	185.5	339.2	194.4	282.3	125.4	95.6	46.0	113.4	247.0	
5	378.4	237.4	295.5	194.4	371.2	253.4	250.2	135.0	93.4	56.5	111.0	243.8	
6	292.2	243.8	346.0	180.4	367.6	227.8	243.8	142.5	91.2	73.6	118.2	240.6	
7	295.5	237.4	342.6	150.0	374.8	200.3	227.8	142.5	89.0	95.6	115.8	224.6	
8	335.8	288.9	315.4	263.0	374.8	170.2	215.0	130.2	84.6	95.6	104.4	240.6	
9	292.2	356.8	318.8	285.6	325.6	308.7	234.2	145.0	82.4	93.4	69.2	367.6	
10	315.4	298.8	305.4	295.5	346.0	339.2	305.4	102.2	80.2	93.4	104.4	447.3	
11	318.8	266.2	247.0	346.0	364.0	315.4	342.6	185.5	78.0	91.2	106.6	459.0	
12	292.2	269.4	253.4	292.2	401.0	221.4	243.8	206.1	75.8	48.1	106.6	475.4	
13	329.0	247.0	237.4	356.8	342.6	240.6	234.2	266.2	73.6	113.4	224.6	439.5	
14	275.8	256.6	172.8	250.2	364.0	221.4	209.1	302.1	71.4	115.8	188.5	371.2	
15	295.5	209.1	118.2	256.6	423.9	224.6	188.5	305.4	69.2	111.0	135.0	385.8	
16	302.1	191.4	118.2	247.0	451.2	243.8	170.2	279.0	67.0	123.0	84.6	443.4	
17	269.4	180.4	132.6	282.3	393.4	185.5	150.0	197.3	64.9	127.8	111.0	447.3	
18	295.5	183.0	160.0	256.6	349.6	212.0	137.5	269.4	60.7	135.0	100.0	475.4	
19	318.8	177.9	170.2	259.8	288.9	329.0	127.8	266.2	58.6	82.4	95.6	420.0	
20	364.0	197.3	206.1	247.0	218.2	520.5	118.2	353.2	54.4	104.4	115.8	467.2	
21	364.0	167.6	197.3	269.4	152.5	612.4	108.8	335.8	52.3	120.6	125.4	364.0	
22	404.8	167.6	145.0	342.6	172.8	566.2	93.4	302.1	46.0	118.2	115.8	404.8	
23	360.4	160.0	135.0	374.8	165.1	508.2	106.6	256.6	44.4	123.0	91.2	401.0	
24	315.4	152.5	160.0	302.1	170.2	420.0	125.4	157.5	38.0	95.6	188.5	443.4	
25	315.4	165.1	177.9	305.4	200.3	367.6	106.6	170.2	34.8	100.0	227.8	443.4	
26	279.0	145.0	180.4	305.4	282.3	382.0	97.8	165.1	38.0	67.0	240.6	435.6	
27	247.0	272.6	183.0	269.4	272.6	382.0	89.0	167.6	39.6	100.0	237.4	439.5	
28	209.1	227.8	177.9	308.7	250.2	393.4	78.0	157.5	36.4	108.8	234.2	374.8	
29	231.0	237.4	175.3	308.7	243.8	305.4	89.0	150.0	34.8	115.8	263.0	393.4	
30	253.4	253.4	135.0	308.7	298.8	250.2	100.0	175.3	34.8	118.2		439.5	
31		194.4		302.1	305.4		100.0		36.4	113.4		427.8	
TOTAL	9449.7	6838.2	6156.0	8281.5	9678.2	9330.4	5589.8	5844.7	2050.3	2913.6	4022.4	11752.1	81906.9 CMSDAY
MEAN	315.0	220.6	205.2	267.1	312.2	311.0	180.3	194.8	66.1	94.0	138.7	379.1	223.8 CMS
MAX	404.8	356.8	346.0	374.8	451.2	612.4	342.6	353.2	118.2	135.0	263.0	475.4	612.4 CMS
MIN	209.1	145.0	118.2	150.0	152.5	170.2	78.0	78.0	34.8	38.0	67.0	224.6	34.8 CMS
RUNOFF	816.45	590.82	531.88	715.52	836.20	806.15	482.96	504.98	177.15	251.74	347.54	1015.38	7076.76 MCM

MOMENTARY PEAK 625.00 CMS, AT 74.90 M (MSL), AT 20.00 HOURS, ON SEP 21, 1987
RUNOFF YIELD 5.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

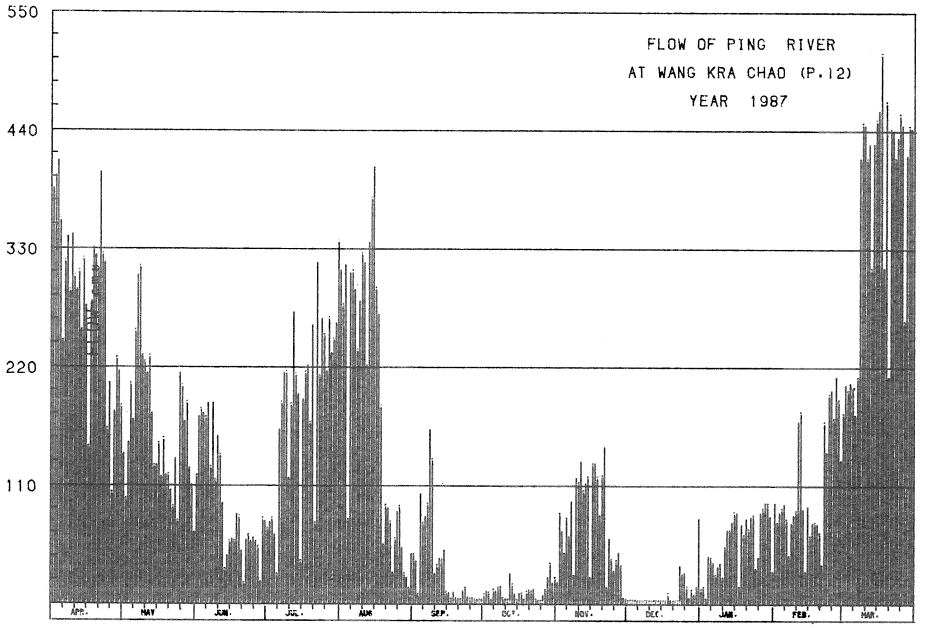
PING RIVER AT WANG KRA CHAO, TAK (P.12)

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	+133.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 25 METERS NORTH OF AUTOMATIC GAGE BUILDING.
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	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION ABOUT 28,000 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	135.45	134.20	134.06	133.64	135.14	133.39	132.81	133.02	132.61	132.90	133.85	134.45	
2	135.50	133.89	134.43	133.69	135.00	133.31	132.85	133.77	132.62	132.94	133.69	134.61	
3	135.55	134.27	134.48	133.73	135.16	132.80	132.84	133.61	132.62	132.67	133.77	134.58	
4	135.34	134.62	134.45	133.58	133.72	133.92	132.62	133.40	132.61	133.36	133.81	134.62	
5	134.83	134.41	134.43	133.15	135.13	133.69	132.90	133.73	132.60	133.35	133.84	134.59	
6	135.18	134.88	134.51	134.35	135.14	133.74	132.85	133.56	132.58	133.29	133.72	134.44	
7	135.27	135.12	134.12	134.52	135.06	133.85	132.93	133.86	132.58	133.14	133.37	134.65	
8	135.06	135.16	134.51	134.67	134.79	134.35	132.95	133.13	132.60	133.24	133.68	135.56	
9	135.28	134.76	134.03	134.68	135.01	134.17	132.70	134.04	132.60	133.28	133.75	135.68	
10	135.12	134.73	134.31	134.04	135.21	133.15	132.65	134.01	132.59	133.10	133.79	135.67	
11	135.06	134.67	134.20	134.51	135.17	133.27	132.64	134.15	132.59	133.46	134.40	135.56	
12	135.14	134.76	133.85	134.96	134.71	133.34	133.15	133.95	132.60	133.62	134.46	135.61	
13	134.88	134.45	133.22	134.67	135.25	133.33	133.00	134.00	132.60	133.62	133.80	135.15	
14	135.19	134.13	133.37	134.56	135.42	133.43	132.79	134.05	132.59	133.69	133.18	135.61	
15	134.99	134.13	133.53	133.32	135.53	132.85	132.63	133.10	132.59	133.78	133.82	135.69	
16	134.25	134.27	133.54	134.53	135.07	132.82	132.81	134.14	132.59	133.77	133.57	135.72	
17	135.00	134.05	133.53	134.68	134.95	132.68	132.82	134.14	132.59	132.94	133.68	135.91	
18	135.23	134.30	133.76	134.71	134.50	132.83	132.63	134.05	132.82	133.67	133.69	135.15	
19	135.20	134.06	133.75	134.40	133.49	132.69	132.86	133.75	132.60	133.58	133.67	135.75	
20	135.14	134.07	133.42	134.90	133.84	132.66	132.88	134.06	132.57	133.72	133.60	134.65	
21	135.51	133.95	133.02	133.69	133.81	132.66	132.86	134.24	132.57	133.63	133.27	135.66	
22	135.21	133.83	133.53	135.17	133.70	132.86	132.89	132.93	132.61	133.73	134.40	135.65	
23	135.17	134.17	133.58	134.66	133.17	132.93	132.66	133.54	133.25	133.75	134.21	135.56	
24	134.36	133.71	133.52	134.93	133.55	132.71	132.60	133.33	133.14	133.22	134.56	135.63	
25	134.62	134.67	133.55	134.86	133.78	132.68	132.60	133.19	133.16	133.35	134.58	135.71	
26	133.94	134.61	133.52	134.68	133.83	132.69	132.75	133.32	132.95	133.77	134.42	135.67	
27	134.46	134.40	133.47	134.94	133.45	132.65	132.90	133.40	132.68	133.81	134.65	134.92	
28	134.75	134.52	133.03	134.77	133.16	132.62	133.10	133.26	132.89	133.85	134.53	135.57	
29	134.68	134.11	133.73	134.84	133.09	132.64	133.29	132.69	132.77	133.85	134.16	135.67	
30	134.50	133.99	133.70	134.91	132.93	132.63	133.01	132.65	132.94	133.74		135.66	
31		133.60		135.26	133.39		133.10		133.72	133.18		135.74	
MEAN	135.00	134.34	133.81	134.45	134.36	133.11	132.84	133.60	132.74	133.45	133.93	135.33	
MAX	135.55	135.16	134.51	135.26	135.53	134.35	133.29	134.24	133.72	133.85	134.65	135.91	135.91
MIN	133.94	133.60	133.02	133.15	132.93	132.62	132.60	132.65	132.57	132.67	133.18	134.44	132.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 136.87 M (MSL), AT 13.00 HOURS, ON MAR 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 133.00 M (MSL), RIVER BED 130.88 M (MSL)
LEFT BANK ELEVATION 142.26 M (MSL)
RIGHT BANK ELEVATION 145.15 M (MSL), DRAINAGE AREA 26396 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	385.7	139.5	119.8	70.7	310.2	46.7	9.9	20.2	3.7	14.0	93.8	177.3	
2	398.5	98.4	174.1	76.0	279.0	39.8	11.8	84.7	4.0	16.0	76.0	203.8	
3	411.7	150.0	181.9	80.3	314.8	9.5	11.3	67.5	4.0	5.2	84.7	198.6	
4	358.0	205.6	177.3	64.5	79.2	102.0	4.0	47.5	3.7	44.1	89.1	205.6	
5	245.0	171.1	174.1	28.2	307.9	76.0	14.0	80.3	3.5	43.3	92.6	200.3	
6	319.4	255.0	186.7	162.0	310.2	81.4	11.8	62.5	3.2	38.2	79.2	175.7	
7	340.8	305.6	127.9	188.4	292.2	93.8	15.5	94.9	3.2	27.6	44.9	211.0	
8	292.2	314.8	186.7	214.6	237.1	162.0	16.5	27.0	3.5	34.5	74.9	414.4	
9	343.2	231.4	115.9	216.4	281.2	135.1	6.0	117.2	3.5	37.5	82.5	447.6	
10	305.6	225.7	156.0	117.2	326.4	28.2	4.7	113.3	3.3	25.0	86.9	444.8	
11	292.2	214.6	139.5	186.7	317.1	36.8	4.5	132.2	3.3	52.9	169.5	414.4	
12	310.2	231.4	93.8	271.0	221.9	42.4	28.2	105.8	3.5	68.6	178.8	427.8	
13	255.0	177.3	33.0	214.6	336.0	41.6	19.0	112.0	3.5	68.6	88.0	312.5	
14	321.7	129.4	44.9	195.2	378.1	50.2	9.1	118.5	3.3	76.0	30.2	427.8	
15	277.0	129.4	59.5	40.7	406.4	11.8	4.3	25.0	3.3	85.8	90.3	450.4	
16	147.0	150.0	60.5	190.1	294.4	10.4	9.9	130.8	3.3	84.7	63.5	458.9	
17	279.0	118.5	59.5	216.4	269.0	5.5	10.4	130.8	3.3	16.0	74.9	512.6	
18	331.2	154.5	83.6	221.9	185.0	10.9	4.3	118.5	10.4	73.8	76.0	312.5	
19	324.0	119.8	82.5	169.5	55.6	5.8	12.2	82.5	3.5	64.5	73.8	467.4	
20	310.2	121.1	49.3	259.0	92.6	5.0	13.1	119.8	3.1	79.2	66.5	211.0	
21	401.1	105.8	20.2	76.0	89.1	5.0	12.2	145.5	3.1	69.7	36.8	441.9	
22	326.4	91.5	59.5	317.1	77.0	12.2	13.6	15.5	3.7	80.3	169.5	439.1	
23	317.1	135.1	64.5	212.8	29.5	15.5	5.0	60.5	35.2	82.5	141.0	414.4	
24	163.5	78.1	58.5	265.0	61.5	6.4	3.5	41.6	27.6	33.0	195.2	433.5	
25	205.6	214.6	61.5	251.0	85.8	5.5	3.5	30.9	28.9	43.3	198.6	456.1	
26	104.5	203.8	58.5	216.4	91.5	5.8	7.8	40.7	16.5	84.7	172.6	444.8	
27	178.8	169.5	53.8	267.0	52.0	4.7	14.0	47.5	5.5	89.1	211.0	263.0	
28	229.5	188.4	20.8	233.3	28.9	4.0	25.0	36.0	13.6	93.8	190.1	417.1	
29	216.4	126.4	80.3	247.0	24.4	4.5	38.2	5.8	8.5	93.8	133.7	444.8	
30	185.0	110.8	77.0	261.0	15.5	4.3	19.6	4.7	16.0	81.4		441.9	
31		66.5		338.4	46.7		25.0		79.2	30.2		464.5	
TOTAL	8575.5	5133.6	2861.1	5868.4	5896.2	1062.8	387.9	2219.7	313.9	1737.3	3164.6	11335.5	48556.5 CMSDAY
MEAN	285.9	165.6	95.4	189.3	190.2	35.4	12.5	74.0	10.1	56.0	109.1	365.7	132.7 CMS
MAX	411.7	314.8	186.7	338.4	406.4	162.0	38.2	145.5	79.2	93.8	211.0	512.6	512.6 CMS
MIN	104.5	66.5	20.2	28.2	15.5	4.0	3.5	4.7	3.1	5.2	30.2	175.7	3.1 CMS
RUNOFF	740.92	443.54	247.20	507.03	509.43	91.83	33.51	191.78	27.12	150.10	273.42	979.39	4195.28 MCM

MOMENTARY PEAK 786.40 CMS, AT 136.87 M (MSL), AT 13.00 HOURS, ON MAR 17, 1987

RUNOFF YIELD 5.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 29.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

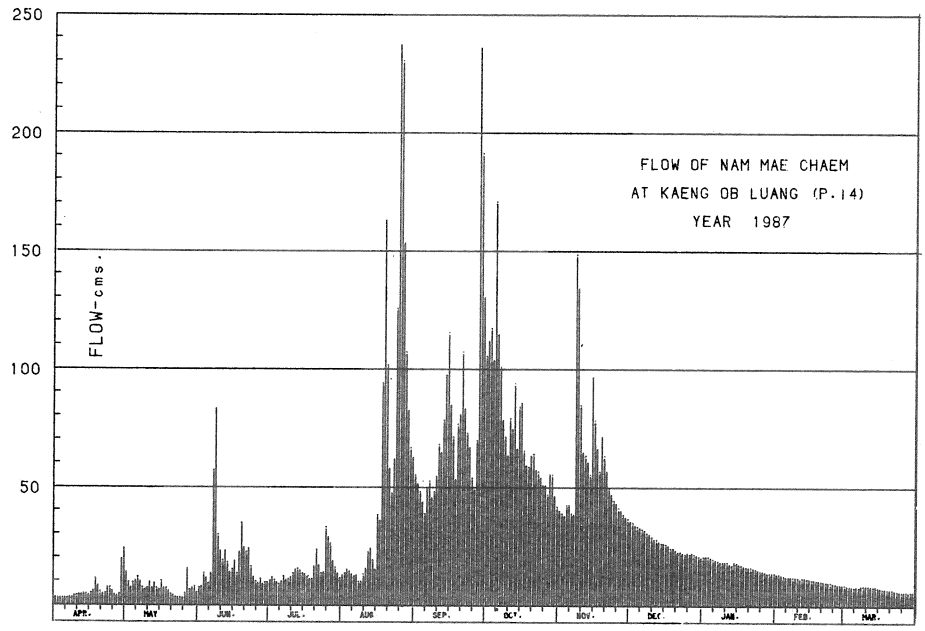
NAM MAE CHAEM AT KAENG OB LUANG, CHIANG MAI (P.14)

LOCATION	LAT. 18°-13'-49" N., LONG. 98°-33'-35" E., ON RIGHT BANK NEAR THE BRIDGE OF HOT-MAE SARIANG HIGHWAY AT GUIDEPOST 7+500, AMPHOE HOT, CHIANG MAI.
DRAINAGE AREA	3,853 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+275.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 310 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	276.75	277.07	276.90	276.98	277.04	277.82	278.46	277.58	277.50	277.22	277.05	276.93	
2	276.74	276.96	276.91	277.02	277.06	277.76	278.53	277.56	277.49	277.22	277.05	276.92	
3	276.74	276.90	277.06	276.99	277.10	277.71	278.59	277.54	277.47	277.22	277.04	276.91	
4	276.74	276.96	277.01	276.96	277.08	277.64	278.44	277.62	277.46	277.21	277.03	276.91	
5	276.74	276.98	276.95	276.94	277.05	277.56	279.15	277.62	277.45	277.20	277.02	276.90	
6	276.74	277.02	277.06	276.97	277.03	277.73	278.56	277.56	277.44	277.19	277.02	276.91	
7	276.75	276.97	277.85	277.03	277.04	277.78	278.41	277.55	277.43	277.18	277.02	276.90	
8	276.75	276.90	278.20	276.99	276.97	277.67	278.14	278.92	277.41	277.17	277.02	276.92	
9	276.78	276.87	277.40	277.00	276.97	277.71	278.05	278.77	277.40	277.17	277.02	276.92	
10	276.79	276.89	277.27	277.02	277.05	277.81	277.94	278.22	277.38	277.17	277.01	276.92	
11	276.80	276.96	277.19	277.06	277.11	278.01	278.15	277.96	277.36	277.17	277.00	276.92	
12	276.80	276.89	277.27	277.10	277.26	277.96	278.09	277.94	277.36	277.15	277.01	276.91	
13	276.81	276.95	277.17	277.11	277.29	278.14	278.33	277.90	277.34	277.14	277.01	276.91	
14	276.81	276.89	277.07	277.09	277.19	278.37	277.98	277.82	277.33	277.17	277.00	276.91	
15	276.79	276.87	277.10	277.06	277.10	278.57	278.21	278.36	277.33	277.16	277.00	276.90	
16	276.82	276.98	277.18	277.05	277.55	278.22	278.23	278.14	277.32	277.15	276.99	276.89	
17	276.85	276.89	277.06	277.02	277.51	278.05	277.97	277.98	277.31	277.14	276.99	276.88	
18	277.00	276.89	277.26	277.00	278.33	277.79	277.88	277.84	277.29	277.13	276.98	276.88	
19	276.92	276.85	277.49	277.00	279.07	278.12	277.87	278.05	277.29	277.12	276.98	276.87	
20	276.84	276.81	277.30	277.13	278.42	278.17	277.94	277.94	277.27	277.12	276.97	276.87	
21	276.81	276.79	277.26	277.28	277.86	278.48	277.95	277.84	277.26	277.12	276.97	276.87	
22	276.82	276.76	277.29	277.14	277.70	278.20	277.85	277.73	277.26	277.11	276.96	276.86	
23	276.90	276.75	277.13	277.06	277.92	278.07	277.84	277.69	277.25	277.10	276.96	276.85	
24	276.90	276.75	277.02	277.07	278.68	277.99	277.80	277.65	277.24	277.09	276.96	276.84	
25	276.85	276.74	276.97	277.46	279.75	277.80	277.75	277.63	277.25	277.08	276.95	276.84	
26	276.80	276.82	276.95	277.38	279.70	277.72	277.75	277.60	277.24	277.08	276.94	276.84	
27	276.78	277.11	277.00	277.33	278.97	278.03	277.69	277.58	277.25	277.07	276.93	276.84	
28	276.81	276.87	276.94	277.18	278.48	279.74	277.82	277.55	277.24	277.06	276.93	276.83	
29	277.20	276.89	276.96	277.12	278.19	279.35	277.82	277.53	277.23	277.06	276.93	276.84	
30	277.29	276.91	276.96	277.06	277.99	278.73	277.68	277.52	277.22	277.06		276.84	
31		276.83		277.01	277.93		277.61		277.21	277.06		276.84	
MEAN	276.84	276.89	277.17	277.08	277.75	278.09	278.08	277.84	277.33	277.14	276.99	276.88	
MAX	277.29	277.11	278.20	277.46	279.75	279.74	279.15	278.92	277.50	277.22	277.05	276.93	279.75
MIN	276.74	276.74	276.90	276.94	276.97	277.56	277.61	277.52	277.21	277.06	276.93	276.83	276.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 280.69 M (MSL), AT 8.00 HOURS, ON SEP 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 275.80 M (MSL), RIVER BED 276.26 M (MSL)
LEFT BANK ELEVATION 283.43 M (MSL)
RIGHT BANK ELEVATION 282.21 M (MSL), DRAINAGE AREA 3853 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.25	14.00	7.60	10.48	12.80	55.30	105.46	40.06	35.50	20.60	13.20	8.68	
2	3.00	9.76	7.96	12.00	13.60	51.40	111.83	38.92	34.95	20.60	13.20	8.32	
3	3.00	7.60	13.60	10.84	15.20	48.15	117.29	37.78	33.85	20.60	12.80	7.96	
4	3.00	9.76	11.60	9.76	14.40	43.72	103.64	42.46	33.30	20.10	12.40	7.96	
5	3.00	10.48	9.40	9.04	13.20	38.92	171.00	42.46	32.75	19.60	12.00	7.60	
6	3.00	12.00	13.60	10.12	12.40	49.45	114.56	38.92	32.20	19.16	12.00	7.96	
7	3.25	10.12	57.25	12.40	12.80	52.70	100.91	38.35	31.65	18.72	12.00	7.60	
8	3.25	7.60	83.20	10.84	10.12	45.61	78.40	148.45	30.55	18.28	12.00	8.32	
9	4.00	6.67	30.00	11.20	10.12	48.15	71.35	134.15	30.00	18.28	12.00	8.32	
10	4.25	7.29	23.10	12.00	13.20	54.65	63.30	84.86	28.92	18.28	11.60	8.32	
11	4.50	9.76	19.16	13.60	15.64	68.27	79.20	64.70	27.84	18.28	11.20	8.32	
12	4.50	7.29	23.10	15.20	22.60	64.70	74.43	63.30	27.84	17.40	11.60	7.96	
13	4.81	9.40	18.28	15.64	24.10	78.40	94.05	60.50	26.76	16.96	11.60	7.96	
14	4.81	7.29	14.00	14.80	19.16	97.45	66.10	55.30	26.22	18.28	11.20	7.96	
15	4.25	6.67	15.20	13.60	15.20	115.47	84.03	96.60	26.22	17.84	11.20	7.60	
16	5.12	10.48	18.72	13.20	38.35	84.86	85.69	78.40	25.68	17.40	10.84	7.29	
17	6.05	7.29	13.60	12.00	36.07	71.35	65.40	66.10	25.14	16.96	10.84	6.98	
18	11.20	7.29	22.60	11.20	94.05	53.35	59.20	56.60	24.10	16.52	10.48	6.98	
19	8.32	6.05	34.95	11.20	163.07	76.80	58.55	71.35	24.10	16.08	10.48	6.67	
20	5.74	4.81	24.60	16.52	101.82	80.80	63.30	63.30	23.10	16.08	10.12	6.67	
21	4.81	4.25	22.60	23.60	57.90	107.28	64.00	56.60	22.60	16.08	10.12	6.67	
22	5.12	3.50	24.10	16.96	47.50	83.20	57.25	49.45	22.60	15.64	9.76	6.36	
23	7.60	3.25	16.52	13.60	61.90	72.89	56.60	46.87	22.10	15.20	9.76	6.05	
24	7.60	3.25	12.00	14.00	125.64	66.80	54.00	44.35	21.60	14.80	9.76	5.74	
25	6.05	3.00	10.12	33.30	237.25	54.00	50.75	43.09	22.10	14.40	9.40	5.74	
26	4.50	5.12	9.40	28.92	230.50	48.80	50.75	41.20	21.60	14.40	9.04	5.74	
27	4.00	15.64	11.20	26.22	153.33	69.81	46.87	40.06	22.10	14.00	8.68	5.74	
28	4.81	6.67	9.04	18.72	107.28	235.90	55.30	38.35	21.60	13.60	8.68	5.43	
29	19.60	7.29	9.76	16.08	82.40	191.37	55.30	37.21	21.10	13.60	8.68	5.74	
30	24.10	7.96	9.76	13.60	66.80	130.35	46.24	36.64	20.60	13.60		5.74	
31		5.43		11.60	62.60		41.83		20.10	13.60		5.74	
TOTAL	180.49	236.97	596.02	462.24	1891.00	2339.90	2346.58	1756.38	818.77	524.94	316.64	220.12	11690.05 CMSDAY
MEAN	6.02	7.64	19.87	14.91	61.00	78.00	75.70	58.55	26.41	16.93	10.92	7.10	31.94 CMS
MAX	24.10	15.64	83.20	33.30	237.25	235.90	171.00	148.45	35.50	20.60	13.20	8.68	237.25 CMS
MIN	3.00	3.00	7.60	9.04	10.12	38.92	41.83	36.64	20.10	13.60	8.68	5.43	3.00 CMS
RUNOFF	15.594	20.474	51.496	39.938	163.382	202.167	202.745	151.751	70.742	45.355	27.358	19.018	1010.020 MCM

MOMENTARY PEAK 409.90 CMS, AT 280.69 M (MSL), AT 8.00 HOURS, ON SEP 28, 1987

RUNOFF YIELD 8.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 106.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

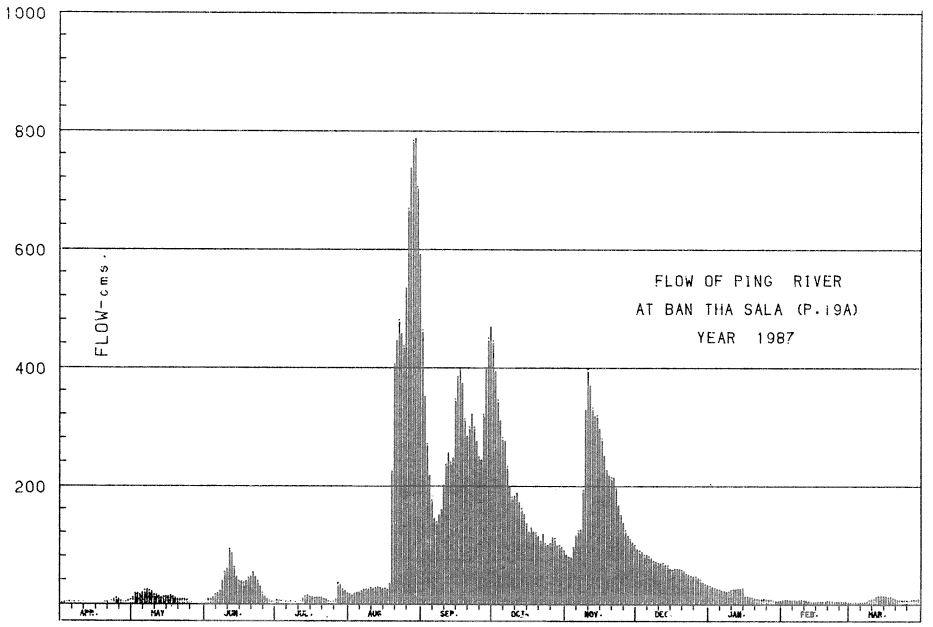
PING RIVER AT BAN THA SALA, CHIANG MAI (P.19A)

LOCATION	LAT. 18°-25'-19" 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	+271.351 M. (M.S.L.)
BENCH MARK	B.M.-H.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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 28,000 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 188 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	271.94	272.22	272.13	272.15	272.28	274.98	274.90	272.76	272.84	272.24	272.14	271.96	
2	271.99	272.31	272.18	272.13	272.26	274.44	274.66	272.73	272.82	272.22	272.15	271.95	
3	272.05	272.30	272.18	272.12	272.29	274.00	274.41	272.72	272.80	272.20	272.15	271.94	
4	272.05	272.28	272.22	272.12	272.31	273.69	274.22	272.87	272.76	272.18	272.14	271.97	
5	272.04	272.31	272.28	272.09	272.31	273.44	274.06	273.02	272.76	272.16	272.14	271.99	
6	272.04	272.36	272.30	272.10	272.34	273.23	274.02	273.09	272.74	272.14	272.14	272.00	
7	272.03	272.37	272.34	272.10	272.37	273.19	273.78	273.10	272.71	272.12	272.12	272.04	
8	272.03	272.35	272.52	272.07	272.37	273.27	273.58	273.54	272.67	272.11	272.14	272.09	
9	272.04	272.33	272.67	272.04	272.37	273.33	273.47	274.32	272.66	272.12	272.15	272.15	
10	272.01	272.28	272.72	272.03	272.40	273.59	273.48	274.68	272.64	272.16	272.14	272.17	
11	271.93	272.27	273.02	272.11	272.38	273.80	273.51	274.54	272.63	272.17	272.13	272.19	
12	271.85	272.25	272.96	272.19	272.40	273.91	273.41	274.34	272.64	272.17	272.10	272.23	
13	271.83	272.22	272.75	272.25	272.41	273.82	273.35	274.26	272.61	272.18	272.03	272.25	
14	271.82	272.24	272.59	272.26	272.40	273.86	273.28	274.27	272.60	272.17	271.97	272.25	
15	271.81	272.24	272.52	272.24	272.38	274.42	273.17	274.14	272.55	272.19	272.03	272.25	
16	271.80	272.24	272.51	272.23	272.39	274.62	273.07	274.05	272.53	272.24	272.08	272.24	
17	271.80	272.26	272.49	272.22	272.37	274.69	273.12	273.88	272.55	272.24	272.09	272.23	
18	271.79	272.24	272.52	272.22	272.47	274.56	273.07	273.74	272.54	272.22	272.10	272.23	
19	272.04	272.21	272.57	272.22	273.73	274.24	273.06	273.69	272.54	272.22	272.09	272.21	
20	272.06	272.18	272.59	272.22	274.72	274.07	273.01	273.67	272.53	272.20	272.12	272.18	
21	272.06	272.18	272.66	272.19	274.90	274.16	272.95	273.67	272.51	272.19	272.11	272.15	
22	272.12	272.18	272.59	272.17	275.05	274.28	273.04	273.56	272.46	272.17	272.09	272.14	
23	272.17	272.18	272.52	272.12	274.95	274.16	272.92	273.38	272.45	272.17	272.08	272.14	
24	272.22	272.16	272.42	272.10	274.86	274.02	272.90	273.27	272.43	272.19	272.07	272.14	
25	272.18	272.10	272.31	272.10	275.26	273.87	272.92	273.18	272.42	272.17	272.07	272.14	
26	272.13	271.98	272.23	272.18	275.73	273.84	273.00	273.09	272.42	272.16	272.07	272.13	
27	272.10	271.84	272.17	272.49	275.95	274.28	272.99	273.02	272.39	272.16	272.06	272.15	
28	272.09	271.80	272.13	272.45	276.10	274.68	272.89	272.98	272.37	272.13	272.04	272.16	
29	272.14	271.93	272.08	272.37	276.11	274.92	272.90	272.93	272.31	272.11	271.99	272.16	
30	272.17	272.08	272.10	272.34	275.85	275.00	272.87	272.90	272.28	272.11		272.17	
31		272.11		272.30	275.47		272.82		272.26	272.12		272.17	
MEAN	272.01	272.19	272.44	272.19	273.59	274.08	273.38	273.51	272.56	272.17	272.09	272.13	
MAX	272.22	272.37	273.02	272.49	276.11	275.00	274.90	274.68	272.84	272.24	272.15	272.25	276.11
MIN	271.79	271.80	272.08	272.03	272.26	273.19	272.82	272.72	272.26	272.11	271.97	271.94	271.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 276.15 M (MSL), AT 1.00 HOURS, ON AUG 29, 1987
ZERO GAGE AT BOTTOM ELEVATION 271.35 M (MSL), RIVER BED 271.07 M (MSL)
LEFT BANK ELEVATION 276.38 M (MSL)
RIGHT BANK ELEVATION 276.36 M (MSL), DRAINAGE AREA 14023 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.80	11.30	6.21	7.15	16.70	464.40	446.00	83.40	92.80	30.70	6.68	3.03	
2	3.38	19.45	8.56	6.21	14.90	351.40	393.80	79.95	90.40	29.10	7.15	2.92	
3	4.15	18.50	8.56	5.74	17.60	272.00	345.85	78.80	88.00	27.50	7.15	2.80	
4	4.15	16.70	11.30	5.74	19.45	217.85	310.70	96.40	83.40	26.00	6.68	3.15	
5	4.02	19.45	16.70	4.67	19.45	176.90	282.50	115.70	83.40	24.50	6.68	3.38	
6	4.02	24.20	18.50	4.80	22.30	144.85	275.50	125.15	81.10	23.00	6.68	3.50	
7	3.89	25.15	22.30	4.80	25.15	139.10	233.50	126.50	77.65	21.50	5.74	4.02	
8	3.89	23.25	39.50	4.41	25.15	150.65	199.70	193.10	73.20	20.75	6.68	4.67	
9	4.02	21.35	54.85	4.02	25.15	159.65	181.70	329.20	72.10	21.50	7.15	7.15	
10	3.63	16.70	60.10	3.89	28.00	201.35	183.30	397.90	69.90	24.50	6.68	8.09	
11	2.68	15.80	93.80	5.27	26.10	237.00	188.15	370.10	68.80	25.25	6.21	9.03	
12	1.75	14.00	86.40	9.03	28.00	256.25	172.10	332.90	69.90	25.25	4.80	12.20	
13	1.52	11.30	63.25	14.00	28.95	240.50	162.75	318.10	66.60	26.00	3.89	14.00	
14	1.40	13.10	46.50	14.90	28.00	247.50	152.10	319.95	65.50	25.25	3.15	14.00	
15	1.28	13.10	39.50	13.10	26.10	347.70	136.30	296.50	60.25	26.75	3.89	14.00	
16	1.17	13.10	38.50	12.20	27.05	385.60	122.45	280.75	58.15	13.10	4.54	13.10	
17	1.17	14.90	36.55	11.30	25.15	399.95	129.30	251.00	60.25	13.10	4.67	12.20	
18	1.05	13.10	39.50	11.30	34.65	373.90	122.45	226.50	59.20	11.30	4.80	12.20	
19	4.02	10.40	44.50	11.30	224.75	314.40	121.10	217.85	59.20	11.30	4.67	10.40	
20	4.28	8.56	46.50	11.30	406.20	284.25	114.35	214.55	58.15	9.50	5.74	8.56	
21	4.28	8.56	53.80	9.03	446.00	300.00	106.50	214.55	56.05	9.03	5.27	7.15	
22	5.74	8.56	46.50	8.09	481.25	321.80	118.40	196.40	51.00	8.09	4.67	6.68	
23	8.09	8.56	39.50	5.74	457.50	300.00	102.60	167.40	50.00	8.09	4.54	6.68	
24	11.30	7.62	29.90	4.80	436.81	275.50	100.00	150.65	48.00	9.03	4.41	6.68	
25	8.56	4.80	19.45	4.80	535.10	249.25	102.60	137.70	47.00	8.09	4.41	6.68	
26	6.21	3.27	12.20	8.56	669.30	244.00	113.00	125.15	47.00	7.62	4.41	6.21	
27	4.80	1.63	8.09	36.55	737.50	321.80	111.70	115.70	44.05	7.62	4.28	7.15	
28	4.67	1.17	6.21	32.75	784.50	397.90	98.80	110.40	42.15	6.21	4.02	7.62	
29	6.68	2.68	4.54	25.15	787.65	450.60	100.00	103.90	36.45	5.27	3.38	7.62	
30	8.09	4.54	4.80	22.30	706.50	469.00	96.40	100.00	33.90	5.27		8.09	
31		5.27		18.50	591.60		90.40		32.30	5.74		8.09	
TOTAL	126.69	380.07	1006.57	341.40	7702.51	8695.05	5414.00	5876.15	1925.85	515.91	153.02	241.05	32378.27 CMSDAY
MEAN	4.22	12.26	33.55	11.01	248.47	289.83	174.65	195.87	62.12	16.64	5.28	7.78	88.47 CMS
MAX	11.30	25.15	93.80	36.55	787.65	469.00	446.00	397.90	92.80	30.70	7.15	14.00	787.65 CMS
MIN	1.05	1.17	4.54	3.89	14.90	139.10	90.40	78.80	32.30	5.27	3.15	2.80	1.05 CMS
RUNOFF	10.946	32.838	86.968	29.497	665.497	751.252	467.770	507.699	166.393	44.575	13.221	20.827	2797.483 MCM

MOMENTARY PEAK 800.25 CMS, AT 276.15 M (MSL), AT 1.00 HOURS, ON AUG 29, 1987

RUNOFF YIELD 6.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 57.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

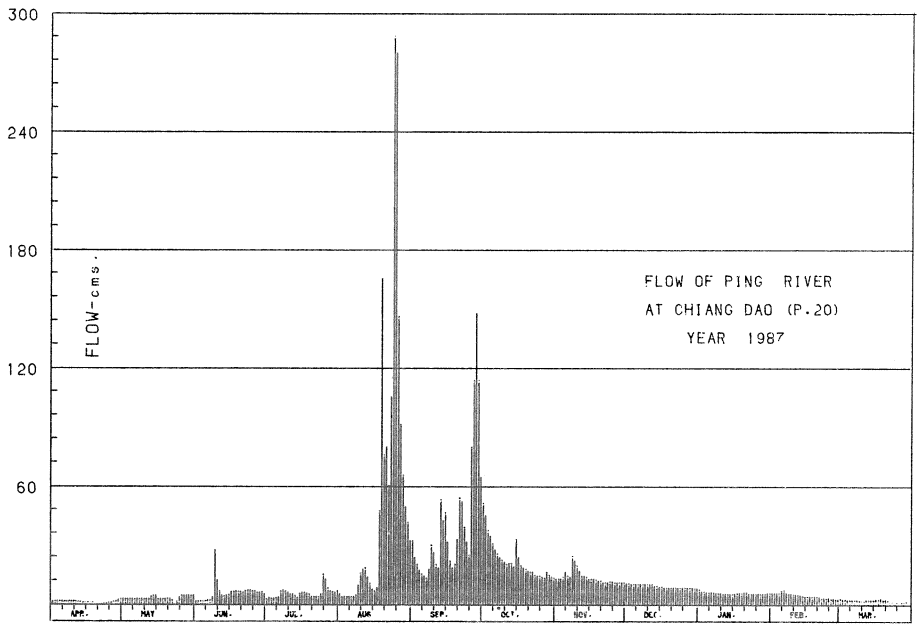
PING RIVER AT CHIANG DAO, CHIANG MAI (P.20)

LOCATION	LAT. 19-22-06 N., LONG. 98-58-20 E., ON RIGHT BANK NEAR WAT INTHRA RAM, AMPHOE CHIANG DAO, CHIANG MAI.
DRAINAGE AREA	1,355 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 2 METERS FROM AUTOMATIC GAGE BUILDING.
ELEVATION	+4.133 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 - 1982
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 - 1982
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE DURING 1979 - 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.64	0.60	0.64	0.72	1.23	1.46	0.90	0.85	0.78	0.73	0.64	
2	0.60	0.64	0.60	0.66	0.68	1.10	1.39	0.90	0.85	0.75	0.73	0.63	
3	0.60	0.64	0.60	0.65	0.68	1.04	1.30	0.90	0.84	0.75	0.73	0.63	
4	0.60	0.64	0.60	0.65	0.68	0.99	1.26	0.92	0.84	0.74	0.73	0.62	
5	0.60	0.64	0.60	0.66	0.68	0.95	1.21	0.97	0.84	0.74	0.76	0.62	
6	0.59	0.64	0.62	0.67	0.68	0.93	1.16	0.93	0.84	0.74	0.77	0.62	
7	0.59	0.64	0.62	0.76	0.68	0.91	1.13	0.92	0.84	0.74	0.73	0.62	
8	0.60	0.64	0.67	0.77	0.71	1.00	1.10	1.11	0.84	0.73	0.72	0.62	
9	0.60	0.64	1.16	0.76	0.83	1.20	1.08	1.07	0.84	0.73	0.72	0.61	
10	0.60	0.64	0.89	0.74	0.96	1.14	1.06	1.03	0.84	0.73	0.72	0.60	
11	0.59	0.64	0.76	0.72	1.00	1.04	1.04	0.98	0.84	0.72	0.71	0.60	
12	0.58	0.64	0.70	0.72	1.01	1.01	1.05	0.93	0.84	0.72	0.71	0.62	
13	0.58	0.68	0.69	0.70	0.92	1.48	1.05	0.93	0.82	0.72	0.70	0.62	
14	0.56	0.70	0.70	0.66	0.85	1.36	1.02	0.92	0.82	0.72	0.69	0.62	
15	0.56	0.70	0.71	0.73	0.78	1.41	1.24	0.90	0.81	0.72	0.68	0.62	
16	0.56	0.64	0.75	0.74	0.76	1.22	1.10	0.90	0.81	0.72	0.68	0.63	
17	0.56	0.64	0.75	0.74	0.80	1.07	1.03	0.90	0.80	0.73	0.68	0.63	
18	0.56	0.64	0.76	0.73	1.42	1.01	1.01	0.89	0.80	0.73	0.68	0.64	
19	0.54	0.64	0.75	0.72	2.30	1.04	1.00	0.88	0.80	0.73	0.68	0.62	
20	0.52	0.65	0.75	0.68	1.69	1.24	0.98	0.88	0.80	0.74	0.68	0.62	
21	0.52	0.64	0.74	0.68	1.72	1.49	0.97	0.86	0.80	0.74	0.67	0.61	
22	0.52	0.62	0.76	0.68	1.55	1.47	0.97	0.86	0.80	0.72	0.65	0.58	
23	0.54	0.52	0.77	0.68	1.91	1.32	0.94	0.86	0.80	0.72	0.65	0.57	
24	0.54	0.60	0.77	0.72	2.94	1.22	0.93	0.87	0.80	0.72	0.65	0.57	
25	0.56	0.67	0.76	0.95	2.90	1.12	0.93	0.87	0.80	0.72	0.65	0.56	
26	0.56	0.70	0.76	0.90	2.18	1.72	0.92	0.86	0.80	0.72	0.64	0.56	
27	0.59	0.70	0.74	0.80	1.81	1.97	0.91	0.86	0.80	0.72	0.64	0.56	
28	0.60	0.70	0.74	0.76	1.60	2.19	0.97	0.86	0.80	0.72	0.63	0.57	
29	0.62	0.70	0.75	0.75	1.44	1.97	0.94	0.86	0.80	0.72	0.63	0.58	
30	0.64	0.70	0.72	0.74	1.35	1.59	0.92	0.86	0.79	0.73		0.57	
31		0.70		0.76	1.23		0.91		0.79	0.73		0.57	
MEAN	0.58	0.65	0.73	0.73	1.27	1.28	1.06	0.91	0.82	0.73	0.69	0.60	
MAX	0.64	0.70	1.16	0.95	2.94	2.19	1.46	1.11	0.85	0.78	0.77	0.64	2.94
MIN	0.52	0.52	0.60	0.64	0.68	0.91	0.91	0.86	0.79	0.72	0.63	0.56	0.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.18 M (A.D), AT 21.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.35 M (A.D)
LEFT BANK ELEVATION 3.20 M (A.D)
RIGHT BANK ELEVATION 5.16 M (A.D), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.62	2.96	1.80	2.96	5.48	32.53	51.55	13.10	10.85	7.82	5.87	2.96	
2	1.80	2.96	1.80	3.54	4.12	24.00	45.17	13.10	10.85	6.65	5.87	2.67	
3	1.80	2.96	1.80	3.25	4.12	20.46	37.73	13.10	10.40	6.65	5.87	2.67	
4	1.80	2.96	1.80	3.25	4.12	17.60	34.76	14.10	10.40	6.26	5.87	2.38	
5	1.80	2.96	1.80	3.54	4.12	15.60	31.04	16.60	10.40	6.26	7.04	2.38	
6	1.62	2.96	2.38	3.83	4.12	14.60	27.78	14.60	10.40	6.26	7.43	2.38	
7	1.62	2.96	2.38	7.04	4.12	13.60	25.89	14.10	10.40	6.26	5.87	2.38	
8	1.80	2.96	3.83	7.43	5.09	18.10	24.00	24.63	10.40	5.87	5.48	2.38	
9	1.80	2.96	27.78	7.04	9.95	30.30	22.82	22.23	10.40	5.87	5.48	2.09	
10	1.80	2.96	12.65	6.26	16.10	26.52	21.64	19.87	10.40	5.87	5.48	1.80	
11	1.62	2.96	7.04	5.48	18.10	20.46	20.46	17.10	10.40	5.48	5.09	1.80	
12	1.44	2.96	4.70	5.48	18.69	18.69	21.05	14.60	10.40	5.48	5.09	2.38	
13	1.44	4.12	4.41	4.70	14.10	53.40	21.05	14.60	9.50	5.48	4.70	2.38	
14	1.08	4.70	4.70	3.54	10.85	42.69	19.28	14.10	9.50	5.48	4.41	2.38	
15	1.08	4.70	5.09	5.87	7.82	46.93	33.27	13.10	9.05	5.48	4.12	2.38	
16	1.08	2.96	6.65	6.26	7.04	31.79	24.00	13.10	9.05	5.48	4.12	2.67	
17	1.08	2.96	6.65	6.26	8.60	22.23	19.87	13.10	8.60	5.87	4.12	2.67	
18	1.08	2.96	7.04	5.87	47.85	18.69	18.69	12.65	8.60	5.87	4.12	2.96	
19	0.72	2.96	6.65	5.48	165.50	20.46	18.10	12.20	8.60	5.87	4.12	2.38	
20	0.36	3.25	6.65	4.12	76.33	33.27	17.10	12.20	8.60	6.26	4.12	2.38	
21	0.36	2.96	6.26	4.12	80.05	54.33	16.60	11.30	8.60	6.26	3.83	2.09	
22	0.36	2.38	7.04	4.12	60.52	52.48	16.60	11.30	8.60	5.48	3.25	1.44	
23	0.72	0.36	7.43	4.12	105.42	39.38	15.10	11.30	8.60	5.48	3.25	1.26	
24	0.72	1.80	7.43	5.48	288.80	31.79	14.60	11.75	8.60	5.48	3.25	1.26	
25	1.08	3.83	7.04	15.60	280.00	25.26	14.60	11.75	8.60	5.48	3.25	1.08	
26	1.08	4.70	7.04	13.10	146.32	80.05	14.10	11.30	8.60	5.48	2.96	1.08	
27	1.62	4.70	6.26	8.60	91.62	113.98	13.60	11.30	8.60	5.48	2.96	1.08	
28	1.80	4.70	6.26	7.04	65.80	147.91	16.60	11.30	8.60	5.48	2.67	1.26	
29	2.38	4.70	6.65	6.65	49.70	113.98	15.10	11.30	8.60	5.48	2.67	1.44	
30	2.96	4.70	5.48	6.26	41.87	64.75	14.10	11.30	8.21	5.87		1.26	
31		4.70		7.04	32.53		13.60		8.21	5.87		1.26	
TOTAL	41.52	103.66	184.49	183.33	1678.85	1245.83	699.85	416.08	291.02	182.36	132.36	62.98	5222.33 CMSDAY
MEAN	1.38	3.34	6.15	5.91	54.16	41.53	22.58	13.87	9.39	5.88	4.56	2.03	14.27 CMS
MAX	2.96	4.70	27.78	15.60	288.80	147.91	51.55	24.63	10.85	7.82	7.43	2.96	288.80 CMS
MIN	0.36	0.36	1.80	2.96	4.12	13.60	13.60	11.30	8.21	5.48	2.67	1.08	0.36 CMS
RUNOFF	3.587	8.956	15.940	15.840	145.053	107.640	60.467	35.949	25.144	15.756	11.436	5.441	451.209 MCM

MOMENTARY PEAK 341.60 CMS, AT 3.18 M (A.D), AT 21.00 HOURS, ON AUG 24, 1987
RUNOFF YIELD 10.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 252.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

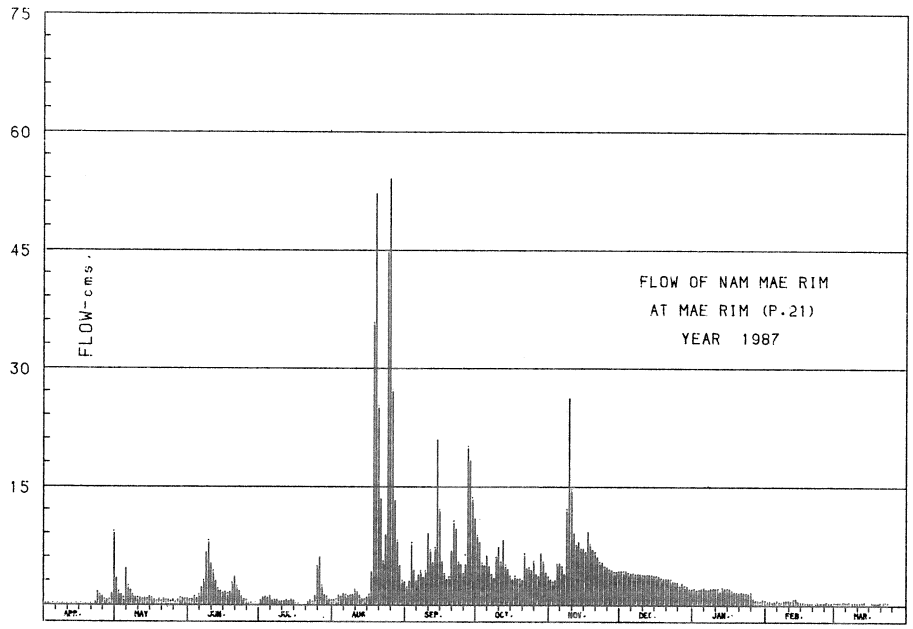
NAM MAE RIM NEAR MAE RIM, CHIANG MAI (P.21)

LOCATION	LAT. 18°-55'-29" N., LONG. 98°-56'-34" E., ON RIGHT BANK ABOUT 100 METERS DOWNSTREAM FROM THE BRIDGE OF CHIANG MAI-FANG HIGHWAY, AMPHOE MAE RIM, CHIANG MAI.
DRAINAGE AREA	515 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+319.70 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	IN THE VICINITY OF GAGE OBSERVER'S HOUSE.
ELEVATION	+322.083 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	320.06	320.70	320.27	320.24	320.25	320.57	321.11	320.68	320.79	320.54	320.11	320.06	
2	320.05	320.49	320.28	320.33	320.29	320.66	321.05	320.65	320.79	320.51	320.11	320.04	
3	320.06	320.40	320.36	320.35	320.38	321.05	320.88	320.67	320.79	320.52	320.12	320.00	
4	320.05	320.34	320.31	320.32	320.36	320.80	320.85	320.87	320.77	320.53	320.13	320.07	
5	320.05	320.82	320.42	320.37	320.43	320.66	320.94	320.87	320.76	320.55	320.22	320.08	
6	320.04	320.60	320.56	320.23	320.41	320.74	320.84	320.84	320.76	320.52	320.15	320.04	
7	320.04	320.51	320.68	320.26	320.37	320.80	320.75	320.75	320.75	320.52	320.15	320.01	
8	320.03	320.41	320.97	320.26	320.39	320.71	320.70	321.28	320.75	320.54	320.20	320.07	
9	320.04	320.33	321.07	320.18	320.40	320.80	320.93	321.83	320.75	320.54	320.20	320.12	
10	320.02	320.34	320.87	320.18	320.53	321.12	321.01	321.40	320.74	320.54	320.22	320.08	
11	320.02	320.32	320.80	320.19	320.47	320.99	320.89	321.12	320.74	320.54	320.18	320.09	
12	320.02	320.29	320.66	320.25	320.38	320.88	321.07	321.03	320.74	320.47	320.27	320.10	
13	320.01	320.31	320.55	320.20	320.28	321.01	320.86	321.05	320.74	320.56	320.29	320.11	
14	320.09	320.31	320.50	320.26	320.29	321.65	320.81	321.00	320.74	320.54	320.17	320.06	
15	320.08	320.35	320.45	320.22	320.33	321.28	320.73	321.00	320.73	320.54	320.13	320.03	
16	320.10	320.33	320.48	320.12	320.41	320.89	320.68	320.97	320.73	320.53	320.16	320.08	
17	320.03	320.26	320.44	320.08	320.78	320.76	320.73	321.13	320.72	320.50	320.09	320.06	
18	320.02	320.21	320.47	320.06	322.12	320.68	320.69	321.04	320.70	320.46	320.10	320.05	
19	320.02	320.28	320.64	320.07	322.51	320.72	320.69	320.99	320.69	320.46	320.09	320.05	
20	320.08	320.21	320.72	320.06	321.80	320.98	320.67	320.97	320.69	320.44	320.10	320.06	
21	320.05	320.29	320.59	320.29	321.34	321.21	320.96	320.93	320.69	320.46	320.09	320.13	
22	320.29	320.25	320.49	320.24	320.90	321.15	320.82	320.89	320.68	320.44	320.14	320.15	
23	320.48	320.24	320.36	320.18	321.11	320.89	320.83	320.88	320.65	320.44	320.13	320.10	
24	320.41	320.20	320.28	320.37	322.35	320.86	320.80	320.84	320.64	320.42	320.09	320.07	
25	320.35	320.26	320.26	320.85	322.55	320.76	320.90	320.83	320.64	320.46	320.12	320.10	
26	320.30	320.16	320.13	320.93	321.87	320.86	320.75	320.81	320.58	320.29	320.15	320.05	
27	320.25	320.25	320.12	320.60	321.33	321.62	320.72	320.80	320.63	320.23	320.09	320.07	
28	320.28	320.33	320.10	320.39	321.07	321.55	320.96	320.78	320.59	320.21	320.10	320.07	
29	320.43	320.31	320.16	320.36	320.85	321.35	320.89	320.78	320.58	320.19	320.06	320.04	
30	321.14	320.30	320.13	320.26	320.67	321.22	320.77	320.79	320.53	320.26		320.03	
31		320.30		320.25	320.65		320.72		320.53	320.23		320.01	
MEAN	320.16	320.35	320.47	320.29	320.90	320.97	320.84	320.95	320.70	320.45	320.14	320.07	
MAX	321.14	320.82	321.07	320.93	322.55	321.65	321.11	321.83	320.79	320.56	320.29	320.15	322.55
MIN	320.01	320.16	320.10	320.06	320.25	320.57	320.67	320.65	320.53	320.19	320.06	320.00	320.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 322.69 M (MSL), AT 3.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 319.70 M (MSL), RIVER BED 319.45 M (MSL)
LEFT BANK ELEVATION 322.75 M (MSL)
RIGHT BANK ELEVATION 322.78 M (MSL), DRAINAGE AREA 515 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	3.40	0.71	0.62	0.65	2.29	8.88	3.22	4.30	2.08	0.30	0.22	
2	0.21	1.75	0.74	0.95	0.77	3.04	7.93	2.95	4.30	1.87	0.30	0.20	
3	0.22	1.30	1.10	1.05	1.20	7.93	5.36	3.13	4.30	1.94	0.32	0.14	
4	0.21	1.00	0.85	0.90	1.10	4.40	5.00	5.24	4.10	2.01	0.35	0.24	
5	0.21	4.64	1.40	1.15	1.45	3.04	6.22	5.24	4.00	2.15	0.56	0.25	
6	0.20	2.50	2.22	0.59	1.35	3.80	4.88	4.88	4.00	1.94	0.39	0.20	
7	0.20	1.87	3.22	0.68	1.15	4.40	3.90	3.90	3.90	1.94	0.39	0.15	
8	0.18	1.35	6.69	0.68	1.25	3.50	3.40	12.18	3.90	2.08	0.50	0.24	
9	0.20	0.95	8.24	0.46	1.30	4.40	6.07	26.20	3.90	2.08	0.50	0.32	
10	0.17	1.00	5.24	0.46	2.01	9.06	7.31	14.70	3.80	2.08	0.56	0.25	
11	0.17	0.90	4.40	0.48	1.65	7.00	5.48	9.06	3.80	2.08	0.46	0.27	
12	0.17	0.77	3.04	0.65	1.20	5.36	8.24	7.61	3.80	1.65	0.71	0.28	
13	0.15	0.85	2.15	0.50	0.74	7.31	5.12	7.93	3.80	2.22	0.77	0.30	
14	0.27	0.85	1.80	0.68	0.77	20.95	4.52	7.15	3.80	2.08	0.43	0.22	
15	0.25	1.05	1.55	0.56	0.95	12.18	3.70	7.15	3.70	2.08	0.35	0.18	
16	0.28	0.95	1.70	0.32	1.35	5.48	3.22	6.69	3.70	2.01	0.41	0.25	
17	0.18	0.68	1.50	0.25	4.20	4.00	3.70	9.24	3.60	1.80	0.27	0.22	
18	0.17	0.53	1.65	0.22	35.84	3.22	3.31	7.77	3.40	1.60	0.28	0.21	
19	0.17	0.74	2.86	0.24	52.17	3.60	3.31	7.00	3.31	1.60	0.27	0.21	
20	0.25	0.53	3.60	0.22	25.30	6.84	3.13	6.69	3.31	1.50	0.28	0.22	
21	0.21	0.77	2.43	0.77	13.44	10.71	6.53	6.07	3.31	1.60	0.27	0.35	
22	0.77	0.65	1.75	0.62	5.60	9.60	4.64	5.48	3.22	1.50	0.37	0.39	
23	1.70	0.62	1.10	0.46	8.88	5.48	4.76	5.36	2.95	1.50	0.35	0.28	
24	1.35	0.50	0.74	1.15	45.00	5.12	4.40	4.88	2.86	1.40	0.27	0.24	
25	1.05	0.68	0.68	5.00	54.05	4.00	5.60	4.76	2.86	1.60	0.32	0.28	
26	0.80	0.41	0.35	6.07	27.40	5.12	3.90	4.52	2.36	0.77	0.39	0.21	
27	0.65	0.65	0.32	2.50	13.23	20.14	3.60	4.40	2.77	0.59	0.27	0.24	
28	0.74	0.95	0.28	1.25	8.24	18.30	6.53	4.20	2.43	0.53	0.28	0.24	
29	1.45	0.85	0.41	1.10	5.00	13.65	5.48	4.20	2.36	0.48	0.22	0.20	
30	9.42	0.80	0.35	0.68	3.13	10.92	4.10	4.30	2.01	0.68		0.18	
31		0.80		0.65	2.95		3.60		2.01	0.59		0.15	
TOTAL	22.22	35.29	63.07	31.91	323.32	224.84	155.82	206.10	105.86	50.03	11.14	7.33	1236.93 CMSDAY
MEAN	0.74	1.14	2.10	1.03	10.43	7.49	5.03	6.87	3.41	1.61	0.38	0.24	3.38 CMS
MAX	9.42	4.64	8.24	6.07	54.05	20.95	8.88	26.20	4.30	2.22	0.77	0.39	54.05 CMS
MIN	0.15	0.41	0.28	0.22	0.65	2.29	3.13	2.95	2.01	0.48	0.22	0.14	0.14 CMS
RUNOFF	1.920	3.049	5.449	2.757	27.935	19.426	13.463	17.807	9.146	4.323	0.962	0.633	106.871 MCM

MOMENTARY PEAK 60.90 CMS, AT 322.69 M (MSL), AT 3.00 HOURS, ON AUG 25, 1987
RUNOFF YIELD 6.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 118.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

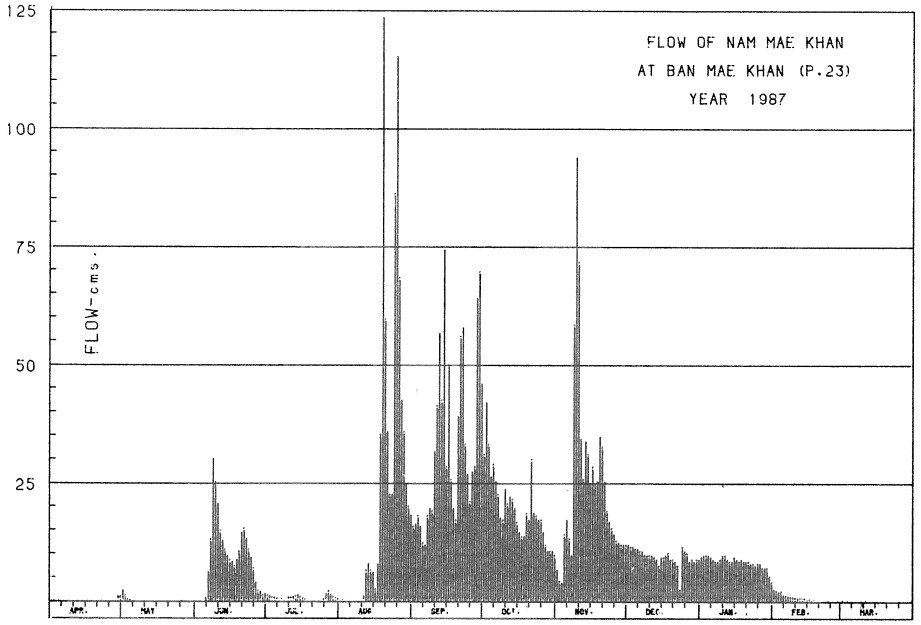
NAM MAE KHAN AT BAN MAE KHAN, CHIANG MAI (P.23)

LOCATION	LAT. 18°31'37" N., LONG. 98°51'42" E., ON LEFT BANK DOWNSTREAM AT THE BRIDGE ON HIGHWAY, AMPHOE SAN PA TONG, CHIANG MAI.
DRAINAGE AREA	1,777 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+285.622 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+289.483 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967, 1969 -1987.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1967, 1969 -1987.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	286.47	286.99	286.34	286.86	286.56	287.36	287.66	287.15	287.27	287.21	287.00	286.49	
2	286.47	286.86	286.37	286.79	286.55	287.37	287.86	287.09	287.26	287.22	286.98	286.49	
3	286.46	286.61	286.37	286.73	286.54	287.41	287.70	287.07	287.26	287.22	286.95	286.49	
4	286.44	286.51	286.38	286.69	286.52	287.36	287.57	287.32	287.25	287.22	286.97	286.49	
5	286.44	286.47	286.72	286.63	286.49	287.28	287.62	287.39	287.25	287.21	286.85	286.46	
6	286.47	286.47	287.14	286.62	286.47	287.27	287.55	287.30	287.24	287.20	286.82	286.46	
7	286.47	286.50	287.30	286.60	286.47	287.41	287.50	287.22	287.24	287.19	286.78	286.47	
8	286.45	286.48	287.64	286.56	286.48	287.44	287.40	288.14	287.22	287.19	286.75	286.46	
9	286.45	286.44	287.55	286.58	286.50	287.43	287.39	288.68	287.22	287.20	286.73	286.46	
10	286.42	286.42	287.46	286.70	286.51	287.67	287.52	288.35	287.22	287.22	286.69	286.46	
11	286.42	286.41	287.34	286.69	286.79	287.85	287.46	287.72	287.22	287.22	286.65	286.46	
12	286.42	286.40	287.29	286.73	287.15	288.11	287.49	287.56	287.21	287.20	286.66	286.41	
13	286.44	286.39	287.25	286.83	287.18	287.87	287.48	287.71	287.20	287.19	286.65	286.40	
14	286.42	286.38	287.22	286.87	287.15	288.39	287.44	287.66	287.17	287.19	286.63	286.38	
15	286.42	286.38	287.20	286.77	287.14	287.61	287.38	287.54	287.21	287.21	286.59	286.37	
16	286.43	286.38	287.19	286.65	287.01	288.00	287.33	287.61	287.21	287.20	286.59	286.37	
17	286.44	286.39	287.17	286.59	287.18	287.56	287.31	287.54	287.22	287.19	286.56	286.32	
18	286.44	286.40	287.20	286.54	287.74	287.44	287.31	287.55	287.23	287.20	286.55	286.32	
19	286.42	286.39	287.24	286.53	289.10	287.39	287.42	287.73	287.20	287.19	286.53	286.35	
20	286.42	286.38	287.33	286.55	288.16	287.81	287.39	287.69	287.20	287.19	286.53	286.35	
21	286.44	286.38	287.35	286.43	287.75	288.10	287.64	287.55	287.19	287.19	286.51	286.32	
22	286.45	286.38	287.30	286.42	287.50	288.13	287.42	287.43	287.17	287.18	286.51	286.32	
23	286.45	286.36	287.25	286.42	287.50	287.70	287.41	287.38	287.00	287.18	286.51	286.32	
24	286.47	286.36	287.21	286.45	288.57	287.58	287.39	287.35	287.26	287.17	286.50	286.27	
25	286.47	286.35	287.16	286.58	288.99	287.47	287.39	287.32	287.24	287.18	286.49	286.27	
26	286.48	286.35	287.08	286.91	288.30	287.59	287.33	287.29	287.23	287.18	286.49	286.27	
27	286.47	286.35	286.99	286.98	287.87	287.61	287.27	287.28	287.19	287.16	286.49	286.27	
28	286.57	286.35	286.96	286.90	287.75	288.23	287.24	287.27	287.20	287.16	286.49	286.27	
29	286.76	286.34	286.90	286.77	287.54	288.32	287.24	287.27	287.19	287.16	286.50	286.28	
30	286.78	286.34	286.92	286.67	287.45	287.93	287.24	287.27	287.20	287.12		286.24	
31		286.34		286.59	287.41		287.22		287.20	287.08		286.19	
MEAN	286.47	286.44	287.09	286.67	287.30	287.69	287.44	287.51	287.21	287.19	286.65	286.37	
MAX	286.78	286.99	287.64	286.98	289.10	288.39	287.86	288.68	287.27	287.22	287.00	286.49	289.10
MIN	286.42	286.34	286.34	286.42	286.47	287.27	287.22	287.07	287.00	287.08	286.49	286.19	286.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 289.37 M (MSL), AT 6.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 285.62 M (MSL), RIVER BED 285.61 M (MSL)
LEFT BANK ELEVATION 289.54 M (MSL)
RIGHT BANK ELEVATION 289.96 M (MSL), DRAINAGE AREA 1777 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	2.40	0.03	1.38	0.48	15.94	31.18	6.70	11.98	9.34	2.50	0.28	
2	0.23	1.38	0.06	1.17	0.45	16.38	42.02	4.30	11.54	9.78	2.30	0.28	
3	0.21	0.63	0.06	0.99	0.42	18.20	33.30	3.90	11.54	9.78	2.00	0.28	
4	0.17	0.33	0.06	0.87	0.36	15.94	26.41	14.18	11.10	9.78	2.20	0.28	
5	0.17	0.23	0.96	0.69	0.28	12.42	29.06	17.26	11.10	9.34	1.35	0.21	
6	0.23	0.23	6.26	0.66	0.23	11.98	25.35	13.30	10.66	8.90	1.26	0.21	
7	0.23	0.30	13.30	0.60	0.23	18.20	22.70	9.78	10.66	8.46	1.14	0.23	
8	0.19	0.26	30.12	0.48	0.26	19.70	17.70	58.54	9.78	8.46	1.05	0.21	
9	0.19	0.17	25.35	0.54	0.30	19.20	17.26	93.92	9.78	8.90	0.99	0.21	
10	0.12	0.12	20.70	0.90	0.33	31.71	23.76	71.75	9.78	9.78	0.87	0.21	
11	0.12	0.10	15.06	0.87	1.17	41.45	20.70	34.36	9.78	9.78	0.75	0.21	
12	0.12	0.08	12.86	0.99	6.70	56.71	22.20	25.88	9.34	8.90	0.78	0.10	
13	0.17	0.07	11.10	1.29	8.02	42.59	21.70	33.83	8.90	8.46	0.75	0.08	
14	0.12	0.06	9.78	1.41	6.70	74.35	19.70	31.18	7.58	8.46	0.69	0.06	
15	0.12	0.06	8.90	1.11	6.26	28.53	16.82	24.82	9.34	9.34	0.57	0.06	
16	0.15	0.06	8.46	0.75	2.70	50.00	14.62	28.53	9.34	8.90	0.57	0.06	
17	0.17	0.07	7.58	0.57	8.02	25.88	13.74	24.82	9.78	8.46	0.48	0.02	
18	0.17	0.08	8.90	0.42	35.42	19.70	13.74	25.35	10.22	8.90	0.45	0.02	
19	0.12	0.07	10.66	0.39	123.50	17.26	18.70	34.89	8.90	8.46	0.39	0.04	
20	0.12	0.06	14.62	0.45	59.76	39.17	17.26	32.77	8.90	8.46	0.39	0.04	
21	0.17	0.06	15.50	0.15	35.95	56.10	30.12	25.35	8.46	8.46	0.33	0.02	
22	0.19	0.06	13.30	0.12	22.70	57.93	18.70	19.20	7.58	8.02	0.33	0.02	
23	0.19	0.05	11.10	0.12	22.70	33.30	18.20	16.82	2.50	8.02	0.33	0.02	
24	0.23	0.05	9.34	0.19	86.33	26.94	17.26	15.50	11.54	7.58	0.30	0.00	
25	0.23	0.04	7.14	0.54	115.31	21.20	17.26	14.18	10.66	8.02	0.28	0.00	
26	0.26	0.04	4.10	1.60	68.50	27.47	14.62	12.86	10.22	8.02	0.28	0.00	
27	0.23	0.04	2.40	2.30	42.59	28.53	11.98	12.42	8.46	7.14	0.28	0.00	
28	0.51	0.04	2.10	1.50	35.95	64.09	10.66	11.98	8.90	7.14	0.28	0.00	
29	1.08	0.03	1.50	1.11	24.82	69.80	10.66	11.98	8.46	7.14	0.30	0.00	
30	1.14	0.03	1.70	0.81	20.20	46.01	10.66	11.98	8.90	5.38		0.00	
31		0.03		0.57	18.20		9.78		8.90	4.10		0.00	
TOTAL	7.58	7.23	273.00	25.54	754.84	1006.68	617.82	742.33	294.58	259.66	24.19	3.15	4016.60 CMSDAY
MEAN	0.25	0.23	9.10	0.82	24.35	33.56	19.93	24.74	9.50	8.38	0.83	0.10	10.97 CMS
MAX	1.14	2.40	30.12	2.30	123.50	74.35	42.02	93.92	11.98	9.78	2.50	0.28	123.50 CMS
MIN	0.12	0.03	0.03	0.12	0.23	11.98	9.78	3.90	2.50	4.10	0.28	0.00	0.00 CMS
RUNOFF	0.655	0.625	23.587	2.207	65.218	86.977	53.380	64.137	25.452	22.435	2.090	0.272	347.034 MCM

MOMENTARY PEAK 143.75 CMS, AT 289.37 M (MSL), AT 6.00 HOURS, ON AUG 25, 1987
RUNOFF YIELD 6.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 80.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

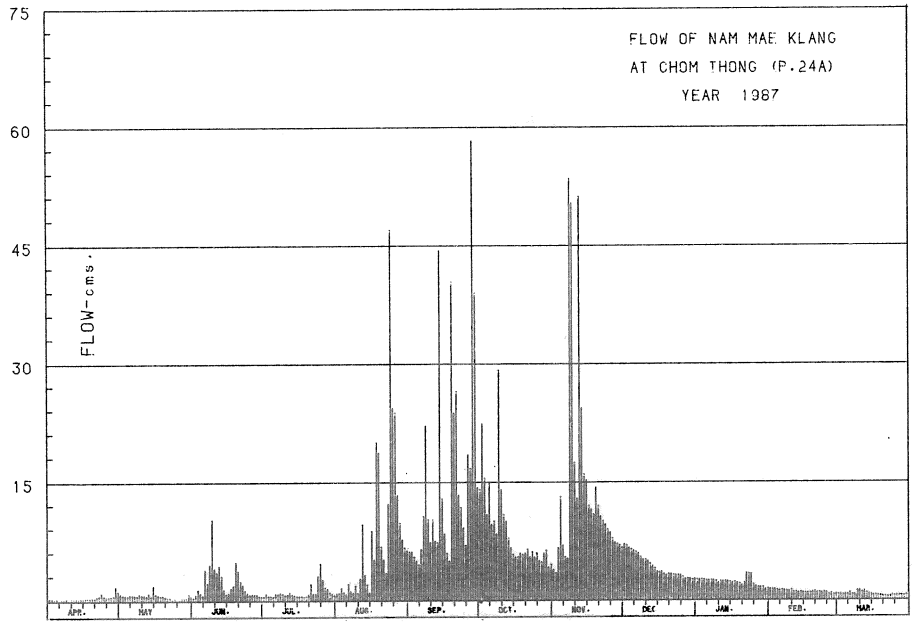
NAM MAE KLANG AT CHOM THONG, CHIANG MAI (P.24A)

LOCATION	LAT. 18°-25'-01" N., LONG. 98°-40'-29" E., ON LEFT BANK AT PRACHA UTHIT BRIDGE, AMPHOE CHOM THONG, CHIANG MAI.
DRAINAGE AREA	460 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+274.693 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 NEAR THE GAGE OBSERVER'S HOUSE, B.M.2 ON LEFT BANK AT ABUTMENT.
ELEVATION	B.M.1 =+277.954 M. (M.S.L.), B.M.2 =+280.309 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 156 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	275.41	275.51	275.42	275.45	275.51	275.94	276.33	275.80	276.00	275.69	275.57	275.50	
2	275.40	275.49	275.49	275.51	275.52	275.94	276.66	275.76	275.99	275.69	275.57	275.50	
3	275.38	275.48	275.57	275.47	275.59	275.90	276.39	275.97	275.97	275.69	275.57	275.49	
4	275.38	275.47	275.52	275.46	275.53	275.87	276.19	276.29	275.96	275.69	275.56	275.50	
5	275.36	275.50	275.48	275.45	275.50	275.84	276.36	275.99	275.95	275.68	275.55	275.50	
6	275.37	275.49	275.80	275.51	275.64	275.96	276.13	275.90	275.94	275.68	275.56	275.52	
7	275.38	275.48	275.65	275.51	275.54	276.18	276.15	275.89	275.93	275.68	275.55	275.49	
8	275.40	275.47	275.84	275.52	275.52	276.65	276.07	277.55	275.90	275.68	275.55	275.49	
9	275.40	275.51	276.16	275.51	275.62	276.16	276.89	277.48	275.88	275.67	275.54	275.55	
10	275.39	275.49	275.81	275.49	275.52	276.01	276.33	276.47	275.88	275.65	275.56	275.55	
11	275.39	275.48	275.77	275.50	275.70	276.16	276.19	276.28	275.87	275.67	275.53	275.53	
12	275.39	275.47	275.83	275.53	276.13	276.02	276.15	277.50	275.85	275.67	275.53	275.54	
13	275.39	275.52	275.73	275.50	275.74	276.01	276.04	276.73	275.83	275.67	275.52	275.52	
14	275.40	275.46	275.57	275.48	275.63	277.33	275.97	276.41	275.81	275.67	275.53	275.50	
15	275.40	275.62	275.51	275.46	275.52	276.28	275.92	276.38	275.78	275.66	275.52	275.49	
16	275.4.	275.51	275.52	275.46	276.09	276.07	275.90	276.24	275.77	275.65	275.52	275.47	
17	275.41	275.49	275.59	275.46	275.88	275.93	275.90	276.22	275.78	275.66	275.52	275.48	
18	275.41	275.47	275.62	275.44	276.57	275.87	275.93	276.19	275.75	275.65	275.52	275.47	
19	275.42	275.47	275.86	275.46	276.52	277.22	275.92	276.34	275.74	275.64	275.53	275.46	
20	275.41	275.44	275.79	275.50	275.98	276.71	275.93	276.24	275.75	275.62	275.54	275.44	
21	275.45	275.43	275.67	275.64	275.88	276.80	275.96	276.18	275.75	275.65	275.52	275.44	
22	275.47	275.42	275.63	275.51	275.76	276.30	275.90	276.15	275.74	275.76	275.53	275.44	
23	275.52	275.40	275.56	275.51	276.25	276.23	275.94	276.13	275.74	275.75	275.52	275.44	
24	275.47	275.39	275.52	275.73	277.40	276.11	275.90	276.10	275.74	275.75	275.53	275.47	
25	275.44	275.38	275.50	275.85	276.73	275.99	275.93	276.08	275.74	275.63	275.52	275.46	
26	275.44	275.37	275.50	275.69	276.71	276.51	275.87	276.04	275.72	275.61	275.50	275.47	
27	275.45	275.40	275.50	275.60	276.30	276.44	275.86	276.01	275.70	275.60	275.51	275.47	
28	275.47	275.39	275.50	275.58	276.14	277.65	275.93	276.00	275.70	275.60	275.49	275.46	
29	275.61	275.41	275.46	275.53	276.03	277.18	275.95	275.99	275.70	275.60	275.50	275.46	
30	275.55	275.51	275.45	275.51	275.97	276.34	275.82	275.97	275.69	275.57		275.48	
31		275.45		275.48	275.95		275.84		275.70	275.58		275.49	
MEAN	275.43	275.46	275.63	275.53	275.95	276.32	276.07	276.28	275.81	275.66	275.53	275.49	
MAX	275.61	275.62	276.16	275.85	277.40	277.65	276.89	277.55	276.00	275.76	275.57	275.55	277.65
MIN	275.36	275.37	275.42	275.44	275.50	275.84	275.82	275.76	275.69	275.57	275.49	275.44	275.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 278.17 M (MSL), AT 6.00 HOURS, ON SEP 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 274.69 M (MSL), RIVER BED 275.33 M (MSL)
LEFT BANK ELEVATION 277.44 M (MSL)
RIGHT BANK ELEVATION 277.74 M (MSL), DRAINAGE AREA 460 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.84	0.35	0.50	0.84	6.16	14.07	3.90	7.15	2.64	1.38	0.75	
2	0.25	0.70	0.70	0.84	0.93	6.16	22.42	3.44	6.98	2.64	1.38	0.75	
3	0.20	0.65	1.38	0.60	1.56	5.50	15.51	6.66	6.66	2.64	1.38	0.70	
4	0.20	0.60	0.93	0.55	1.02	5.02	10.89	13.13	6.49	2.64	1.29	0.75	
5	0.15	0.75	0.65	0.50	0.75	4.54	14.79	6.98	6.33	2.53	1.20	0.75	
6	0.18	0.70	3.90	0.84	2.09	6.49	9.63	5.50	6.16	2.53	1.29	0.93	
7	0.20	0.65	2.20	0.84	1.11	10.68	10.05	5.34	5.99	2.53	1.20	0.70	
8	0.25	0.60	4.54	0.93	0.93	22.15	8.45	53.50	5.50	2.53	1.20	0.70	
9	0.25	0.84	10.26	0.84	1.87	10.26	29.20	50.36	5.18	2.42	1.11	1.20	
10	0.23	0.70	4.06	0.70	0.93	7.34	14.07	17.47	5.18	2.20	1.29	1.20	
11	0.23	0.65	3.55	0.75	2.75	10.26	10.89	12.90	5.02	2.42	1.02	1.02	
12	0.23	0.60	4.38	1.02	9.63	7.52	10.05	51.20	4.70	2.42	1.02	1.11	
13	0.23	0.93	3.10	0.75	3.21	7.34	7.89	24.40	4.38	2.42	0.93	0.93	
14	0.25	0.55	1.38	0.65	1.98	44.38	6.66	16.00	4.06	2.42	1.02	0.75	
15	0.25	1.87	0.84	0.55	0.93	12.90	5.83	15.27	3.67	2.31	0.93	0.70	
16	0.30	0.84	0.93	0.55	8.81	8.45	5.50	12.00	3.55	2.20	0.93	0.60	
17	0.30	0.70	1.56	0.55	5.18	5.99	5.50	11.55	3.67	2.31	0.93	0.65	
18	0.30	0.60	1.87	0.45	20.02	5.02	5.99	10.89	3.33	2.20	0.93	0.60	
19	0.35	0.60	4.86	0.55	18.72	40.41	5.83	14.31	3.21	2.09	1.02	0.55	
20	0.30	0.45	3.79	0.75	6.82	23.80	5.99	12.00	3.33	1.87	1.11	0.45	
21	0.50	0.40	2.42	2.09	5.18	26.50	6.49	10.68	3.33	2.20	0.93	0.45	
22	0.60	0.35	1.98	0.84	3.44	13.35	5.50	10.05	3.21	3.44	1.02	0.45	
23	0.93	0.25	1.29	0.84	12.23	11.78	6.16	9.63	3.21	3.33	0.93	0.45	
24	0.60	0.23	0.93	3.10	47.00	9.21	5.50	9.00	3.21	3.33	1.02	0.60	
25	0.45	0.20	0.75	4.70	24.40	6.98	5.99	8.63	3.21	1.98	0.93	0.55	
26	0.45	0.18	0.75	2.64	23.80	18.46	5.02	7.89	2.98	1.76	0.75	0.60	
27	0.50	0.25	0.75	1.65	13.35	16.73	4.86	7.34	2.75	1.65	0.84	0.60	
28	0.60	0.23	0.75	1.47	9.84	58.30	5.99	7.15	2.75	1.65	0.70	0.55	
29	1.76	0.30	0.55	1.02	7.70	39.00	6.33	6.98	2.75	1.65	0.75	0.55	
30	1.20	0.84	0.50	0.84	6.66	14.31	4.22	6.66	2.64	1.38		0.65	
31		0.50		0.65	6.33		4.54		2.75	1.47		0.70	
TOTAL	12.54	18.55	65.90	33.55	250.01	464.99	279.81	430.81	133.33	71.80	30.43	21.94	1813.66 CMSDAY
MEAN	0.42	0.60	2.20	1.08	8.06	15.50	9.03	14.36	4.30	2.32	1.05	0.71	4.96 CMS
MAX	1.76	1.87	10.26	4.70	47.00	58.30	29.20	53.50	7.15	3.44	1.38	1.20	58.30 CMS
MIN	0.15	0.18	0.35	0.45	0.75	4.54	4.22	3.44	2.64	1.38	0.70	0.45	0.15 CMS
RUNOFF	1.083	1.603	5.694	2.899	21.601	40.175	24.176	37.222	11.520	6.204	2.629	1.896	156.700 MCM

MOMENTARY PEAK 101.45 CMS, AT 278.17 M (MSL), AT 6.00 HOURS, ON SEP 28, 1987
RUNOFF YIELD 10.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 220.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

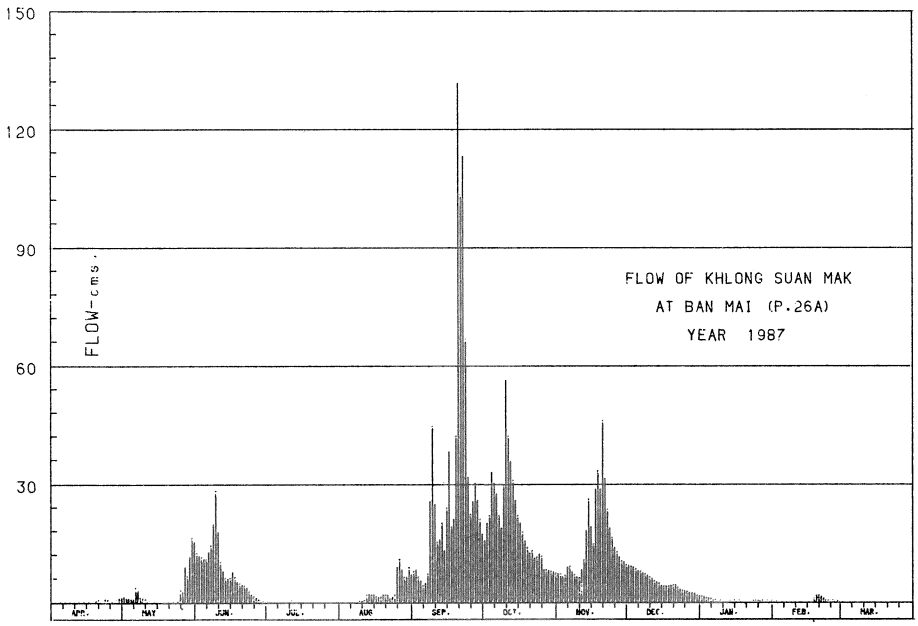
KHLONG SUAN MAK AT BAN MAI, KAMPHAENG PHET (P.26A)

LOCATION	LAT. 16°-26'-57" N., LONG. 99°-26'-27" E., ON RIGHT BANK ABOUT 515 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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING
ELEVATION	+6.144 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1974, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1974, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY THA KRADAN WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.43	-0.18	0.42	-0.32	-0.44	0.22	0.53	0.19	0.29	-0.17	-0.31	-0.37	
2	-0.42	-0.22	0.39	-0.34	-0.44	0.24	0.68	0.19	0.28	-0.18	-0.35	-0.40	
3	-0.42	-0.22	0.38	-0.35	-0.44	0.15	0.74	0.15	0.27	-0.20	-0.39	-0.47	
4	-0.41	-0.25	0.36	-0.35	-0.40	0.10	1.05	0.17	0.25	-0.22	-0.42	-0.50	
5	-0.40	-0.25	0.36	-0.35	-0.39	0.02	0.98	0.27	0.23	-0.23	-0.46	-0.52	
6	-0.40	-0.01	0.43	-0.35	-0.39	0.06	0.91	0.28	0.22	-0.26	-0.48	-0.47	
7	-0.40	-0.07	0.49	-0.34	-0.40	0.19	0.74	0.21	0.20	-0.27	-0.49	-0.48	
8	-0.41	-0.19	0.67	-0.34	-0.38	0.85	0.64	0.18	0.19	-0.29	-0.53	-0.49	
9	-0.41	-0.22	0.93	-0.32	-0.31	1.34	0.97	0.15	0.17	-0.29	-0.48	-0.50	
10	-0.42	-0.25	0.61	-0.30	-0.33	0.83	1.57	0.14	0.15	-0.31	-0.44	-0.49	
11	-0.42	-0.30	0.33	-0.31	-0.28	0.52	1.28	0.24	0.13	-0.31	-0.45	-0.49	
12	-0.42	-0.32	0.22	-0.32	-0.14	0.54	1.12	0.35	0.10	-0.31	-0.46	-0.48	
13	-0.40	-0.36	0.14	-0.33	-0.13	0.68	1.00	0.62	0.08	-0.32	-0.50	-0.47	
14	-0.39	-0.38	0.13	-0.34	-0.14	0.44	0.86	0.87	0.06	-0.31	-0.45	-0.48	
15	-0.39	-0.39	0.14	-0.34	-0.14	0.80	0.74	0.65	0.02	-0.30	-0.42	-0.49	
16	-0.40	-0.40	0.21	-0.35	-0.17	1.18	0.68	0.50	0.01	-0.31	-0.42	-0.50	
17	-0.42	-0.41	0.15	-0.36	-0.19	0.65	0.61	0.94	0.01	-0.31	-0.40	-0.50	
18	-0.42	-0.42	0.08	-0.36	-0.18	0.71	0.53	1.06	0.01	-0.32	-0.22	-0.51	
19	-0.31	-0.43	0.06	-0.35	-0.14	1.28	0.47	0.94	0.02	-0.33	-0.16	-0.52	
20	-0.27	-0.43	0.03	-0.35	-0.14	2.63	0.42	1.37	0.03	-0.34	-0.15	-0.53	
21	-0.31	-0.45	0.02	-0.36	-0.15	2.30	0.44	1.01	0.03	-0.34	-0.18	-0.52	
22	-0.35	-0.45	-0.02	-0.37	-0.23	2.42	0.37	0.79	-0.01	-0.33	-0.23	-0.53	
23	-0.25	-0.46	-0.08	-0.38	-0.19	1.76	0.38	0.64	-0.05	-0.32	-0.28	-0.54	
24	-0.27	-0.33	-0.14	-0.39	-0.14	1.02	0.41	0.56	-0.06	-0.31	-0.29	-0.55	
25	-0.29	-0.13	-0.17	-0.40	0.27	0.75	0.39	0.47	-0.07	-0.31	-0.29	-0.55	
26	-0.34	-0.09	-0.21	-0.41	0.36	0.85	0.24	0.43	-0.08	-0.30	-0.29	-0.56	
27	-0.32	0.27	-0.26	-0.42	0.24	0.98	0.24	0.38	-0.10	-0.30	-0.29	-0.57	
28	-0.27	0.16	-0.29	-0.42	0.15	0.86	0.23	0.34	-0.11	-0.31	-0.34	-0.52	
29	-0.22	0.38	-0.30	-0.43	0.15	0.71	0.22	0.33	-0.12	-0.31	-0.36	-0.49	
30	-0.20	0.56	-0.30	-0.43	0.27	0.59	0.21	0.30	-0.15	-0.31		-0.50	
31		0.52		-0.44	0.18		0.20		-0.17	-0.31		-0.51	
MEAN	-0.36	-0.18	0.16	-0.36	-0.15	0.86	0.64	0.49	0.06	-0.29	-0.36	-0.50	
MAX	-0.20	0.56	0.93	-0.30	0.36	2.63	1.57	1.37	0.29	-0.17	-0.15	-0.37	2.63
MIN	-0.43	-0.46	-0.30	-0.44	-0.44	0.02	0.20	0.14	-0.17	-0.34	-0.53	-0.57	-0.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.75 M (A.D), AT 11.00 HOURS, ON SEP 20, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.89 M (A.D)
LEFT BANK ELEVATION 5.85 M (A.D)
RIGHT BANK ELEVATION 5.41 M (A.D), DRAINAGE AREA 969 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	1.46	12.56	0.43	0.11	7.92	15.64	7.30	9.39	1.59	0.47	0.26	
2	0.13	1.06	11.76	0.36	0.11	8.34	20.16	7.30	9.18	1.46	0.33	0.15	
3	0.13	1.06	11.52	0.33	0.11	6.50	22.08	6.50	8.97	1.20	0.19	0.08	
4	0.14	0.85	11.04	0.33	0.15	5.50	33.00	6.90	8.55	1.06	0.13	0.05	
5	0.15	0.85	11.04	0.33	0.19	4.30	30.24	8.97	8.13	0.99	0.09	0.04	
6	0.15	3.85	12.84	0.33	0.19	4.90	27.58	9.18	7.92	0.78	0.07	0.08	
7	0.15	2.95	14.52	0.36	0.15	7.30	22.08	7.71	7.50	0.71	0.06	0.07	
8	0.14	1.33	19.84	0.36	0.22	25.60	18.88	7.10	7.30	0.57	0.04	0.06	
9	0.14	1.06	28.34	0.43	0.47	44.80	29.86	6.50	6.90	0.57	0.07	0.05	
10	0.13	0.85	17.92	0.50	0.40	24.96	56.35	6.30	6.50	0.47	0.11	0.06	
11	0.13	0.50	10.32	0.47	0.64	15.36	42.20	8.34	6.10	0.47	0.10	0.06	
12	0.13	0.43	7.92	0.43	1.98	15.92	35.80	10.80	5.50	0.47	0.09	0.07	
13	0.15	0.29	6.30	0.40	2.11	20.16	31.00	18.24	5.20	0.43	0.05	0.08	
14	0.19	0.22	6.10	0.36	1.98	13.12	25.92	26.24	4.90	0.47	0.10	0.07	
15	0.19	0.19	6.30	0.36	1.98	24.00	22.08	19.20	4.30	0.50	0.13	0.06	
16	0.15	0.15	7.71	0.33	1.59	38.20	20.16	14.80	4.15	0.47	0.13	0.05	
17	0.13	0.14	6.50	0.29	1.33	19.20	17.92	28.72	4.15	0.47	0.15	0.05	
18	0.13	0.13	5.20	0.29	1.46	21.12	15.64	33.40	4.15	0.43	1.06	0.05	
19	0.47	0.12	4.90	0.33	1.98	42.20	13.96	28.72	4.30	0.40	1.72	0.04	
20	0.71	0.12	4.45	0.33	1.98	131.70	12.56	46.15	4.45	0.36	1.85	0.04	
21	0.47	0.10	4.30	0.29	1.85	103.50	13.12	31.40	4.45	0.36	1.46	0.04	
22	0.33	0.10	3.70	0.26	0.99	113.20	11.28	23.68	3.85	0.40	0.99	0.04	
23	0.85	0.09	2.80	0.22	1.33	66.80	11.52	18.88	3.25	0.43	0.64	0.03	
24	0.71	0.40	1.98	0.19	1.98	31.80	12.28	16.48	3.10	0.47	0.57	0.03	
25	0.57	2.11	1.59	0.15	8.97	22.40	11.76	13.96	2.95	0.47	0.57	0.03	
26	0.36	2.65	1.13	0.14	11.04	25.60	8.34	12.84	2.80	0.50	0.57	0.02	
27	0.43	8.97	0.78	0.13	8.34	30.24	8.34	11.52	2.50	0.50	0.57	0.02	
28	0.71	6.70	0.57	0.13	6.50	25.92	8.13	10.56	2.37	0.47	0.36	0.04	
29	1.06	11.52	0.50	0.12	6.50	21.12	7.92	10.32	2.24	0.47	0.29	0.06	
30	1.20	16.48	0.50	0.12	8.97	17.32	7.71	9.60	1.85	0.47		0.05	
31		15.36		0.11	7.10		7.50		1.59	0.47		0.05	
TOTAL	10.45	82.09	234.93	9.21	82.70	939.00	621.01	467.61	158.49	18.88	12.96	1.88	2639.21 CMSDAY
MEAN	0.35	2.65	7.83	0.30	2.67	31.30	20.03	15.59	5.11	0.61	0.45	0.06	7.21 CMS
MAX	1.20	16.48	28.34	0.50	11.04	131.70	56.35	46.15	9.39	1.59	1.85	0.26	131.70 CMS
MIN	0.12	0.09	0.50	0.11	0.11	4.30	7.50	6.30	1.59	0.36	0.04	0.02	0.02 CMS
RUNOFF	0.903	7.093	20.298	0.796	7.145	81.130	53.655	40.402	13.694	1.631	1.120	0.162	228.028 MCM

MOMENTARY PEAK 143.00 CMS, AT 2.75 M (A.D), AT 11.00 HOURS, ON SEP 20, 1987

RUNOFF YIELD 7.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 147.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

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

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

DRAINAGE AREA — 1,970 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +3.420 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. FLOW REGULATED BY THE WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

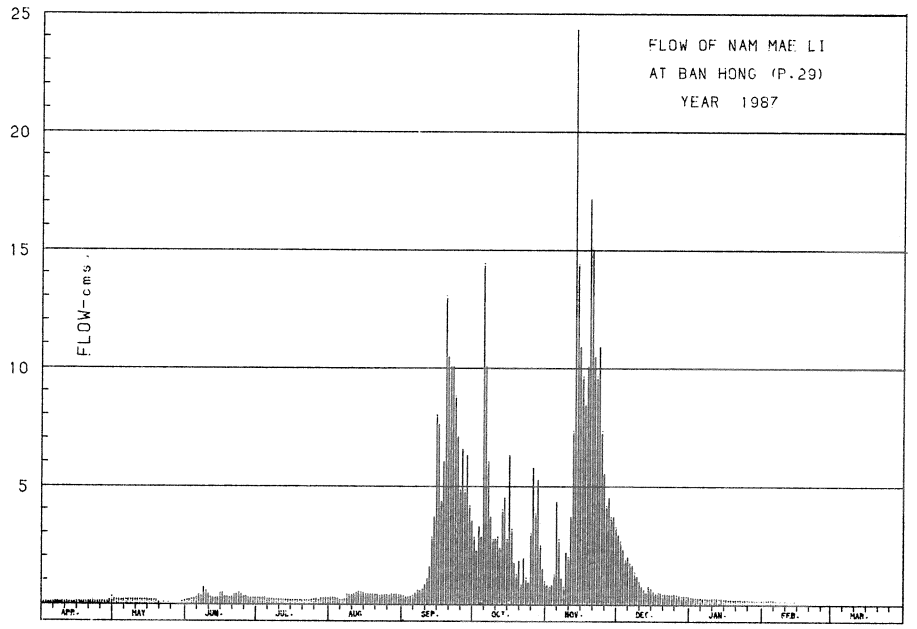
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.36	0.33	0.39	0.39	0.44	1.04	0.63	1.05	0.40	0.31	-0.04	
2	0.28	0.35	0.34	0.39	0.40	0.41	0.96	0.61	1.02	0.39	0.32	-0.03	
3	0.27	0.35	0.36	0.39	0.39	0.41	1.09	0.63	0.97	0.39	0.32	-0.15	
4	0.28	0.34	0.37	0.39	0.37	0.42	1.04	0.77	0.90	0.38	0.33	-0.15	
5	0.28	0.35	0.40	0.36	0.34	0.45	1.44	1.16	0.92	0.38	0.32	-0.15	
6	0.29	0.35	0.46	0.36	0.34	0.50	1.36	1.03	0.87	0.37	0.31	-0.15	
7	0.29	0.35	0.44	0.36	0.35	0.55	1.24	0.72	0.85	0.37	0.30	-0.15	
8	0.28	0.35	0.60	0.35	0.47	0.54	1.12	0.61	0.79	0.36	0.30	-0.15	
9	0.29	0.35	0.54	0.35	0.46	0.57	1.03	0.95	0.74	0.36	0.30	-0.15	
10	0.28	0.35	0.48	0.35	0.46	0.64	1.03	0.92	0.68	0.37	0.30	-0.15	
11	0.29	0.35	0.41	0.35	0.48	0.72	1.04	1.12	0.61	0.38	0.29	-0.15	
12	0.28	0.35	0.39	0.34	0.51	0.84	0.98	1.29	0.56	0.37	0.28	-0.15	
13	0.28	0.35	0.38	0.34	0.53	1.04	1.14	1.56	0.50	0.36	0.28	-0.15	
14	0.28	0.35	0.39	0.34	0.52	1.12	1.17	1.44	0.62	0.36	0.29	-0.15	
15	0.29	0.35	0.50	0.33	0.51	1.31	1.03	1.38	0.58	0.35	0.27	-0.15	
16	0.29	0.34	0.51	0.33	0.49	1.30	1.25	1.35	0.53	0.35	0.25	-0.15	
17	0.29	0.34	0.42	0.33	0.48	1.16	1.08	1.32	0.48	0.34	0.23	-0.15	
18	0.29	0.33	0.42	0.33	0.48	1.24	0.87	1.36	0.51	0.34	0.19	0.15	
19	0.29	0.33	0.40	0.33	0.47	1.42	0.77	1.48	0.50	0.33	0.15	-0.15	
20	0.30	0.27	0.41	0.32	0.47	1.37	0.89	1.45	0.48	0.33	0.12	-0.15	
21	0.30	0.27	0.46	0.32	0.46	1.36	0.64	1.37	0.48	0.34	0.12	-0.15	
22	0.29	0.27	0.48	0.32	0.45	1.36	0.91	1.35	0.47	0.34	0.11	-0.15	
23	0.29	0.27	0.51	0.32	0.45	1.33	0.73	1.38	0.46	0.33	0.11	-0.15	
24	0.29	0.26	0.48	0.34	0.46	1.28	0.67	1.29	0.46	0.33	0.10	-0.15	
25	0.30	0.25	0.42	0.35	0.46	1.19	1.06	1.22	0.47	0.33	0.09	-0.15	
26	0.30	0.20	0.43	0.36	0.45	1.26	1.23	1.15	0.46	0.32	0.08	-0.15	
27	0.29	0.18	0.40	0.34	0.47	1.19	1.13	1.17	0.44	0.32	0.07	-0.15	
28	0.29	0.04	0.39	0.38	0.48	1.25	1.21	1.12	0.43	0.31	0.06	-0.15	
29	0.33	0.03	0.39	0.38	0.47	1.15	1.00	1.12	0.43	0.31	0.05	-0.15	
30	0.42	0.30	0.39	0.38	0.46	1.11	0.82	1.09	0.43	0.31		-0.15	
31		0.32		0.38	0.45		0.69		0.42	0.31		-0.15	
MEAN	0.29	0.30	0.43	0.35	0.45	0.96	1.02	1.13	0.62	0.35	0.22	-0.13	
MAX	0.42	0.36	0.60	0.39	0.53	1.42	1.44	1.56	1.05	0.40	0.33	0.15	1.56
MIN	0.27	0.03	0.33	0.32	0.34	0.41	0.64	0.61	0.42	0.31	0.05	-0.15	-0.15

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.58 M (A.D), AT 12.00 HOURS, ON NOV 13, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — -0.56 M (A.D)

LEFT BANK ELEVATION — 3.42 M (A.D)

RIGHT BANK ELEVATION — 3.46 M (A.D), DRAINAGE AREA — 1970 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.23	0.18	0.27	0.27	0.36	2.85	0.80	2.93	0.29	0.15	0.00	
2	0.10	0.21	0.19	0.27	0.29	0.31	2.25	0.74	2.67	0.27	0.16	0.00	
3	0.09	0.21	0.23	0.27	0.27	0.31	3.28	0.80	2.31	0.27	0.16	0.00	
4	0.10	0.19	0.24	0.27	0.24	0.33	2.85	1.28	1.88	0.26	0.18	0.00	
5	0.10	0.21	0.29	0.23	0.19	0.38	14.42	4.35	2.00	0.26	0.16	0.00	
6	0.12	0.21	0.40	0.23	0.19	0.47	10.06	2.76	1.74	0.24	0.15	0.00	
7	0.12	0.21	0.36	0.23	0.21	0.59	6.04	1.09	1.64	0.24	0.13	0.00	
8	0.10	0.21	0.71	0.21	0.42	0.57	3.70	0.74	1.36	0.23	0.13	0.00	
9	0.12	0.21	0.57	0.21	0.40	0.64	2.76	2.19	1.17	0.23	0.13	0.00	
10	0.10	0.21	0.43	0.21	0.40	0.83	2.76	2.00	0.95	0.24	0.13	0.00	
11	0.12	0.21	0.31	0.21	0.43	1.09	2.85	3.70	0.74	0.26	0.12	0.00	
12	0.10	0.21	0.27	0.19	0.49	1.59	2.38	7.34	0.61	0.24	0.10	0.00	
13	0.10	0.21	0.26	0.19	0.54	2.85	4.02	24.32	0.47	0.23	0.10	0.00	
14	0.10	0.21	0.27	0.19	0.52	3.70	4.51	14.42	0.77	0.23	0.12	0.00	
15	0.12	0.21	0.47	0.18	0.49	8.01	2.76	10.88	0.66	0.21	0.09	0.00	
16	0.12	0.19	0.49	0.18	0.45	7.60	6.30	9.65	0.54	0.21	0.06	0.00	
17	0.12	0.19	0.33	0.18	0.43	4.35	3.20	8.42	0.43	0.19	0.04	0.00	
18	0.12	0.18	0.33	0.18	0.43	6.04	1.74	10.06	0.49	0.19	0.00	0.00	
19	0.12	0.18	0.29	0.18	0.42	13.06	1.28	17.14	0.47	0.18	0.00	0.00	
20	0.13	0.09	0.31	0.16	0.42	10.47	1.83	15.10	0.43	0.18	0.00	0.00	
21	0.13	0.09	0.40	0.16	0.40	10.06	0.83	10.47	0.43	0.19	0.00	0.00	
22	0.12	0.09	0.43	0.16	0.38	10.06	1.94	9.65	0.42	0.19	0.00	0.00	
23	0.12	0.09	0.49	0.16	0.38	8.83	1.13	10.88	0.40	0.18	0.00	0.00	
24	0.12	0.08	0.43	0.19	0.40	7.08	0.92	7.34	0.40	0.18	0.00	0.00	
25	0.13	0.06	0.33	0.21	0.40	4.84	3.02	5.52	0.42	0.18	0.00	0.00	
26	0.13	0.00	0.34	0.23	0.38	6.56	5.78	4.18	0.40	0.16	0.00	0.00	
27	0.12	0.00	0.29	0.19	0.42	4.84	3.86	4.51	0.36	0.16	0.00	0.00	
28	0.12	0.00	0.27	0.26	0.43	6.30	5.26	3.70	0.34	0.15	0.00	0.00	
29	0.18	0.00	0.27	0.26	0.42	4.18	2.50	3.70	0.34	0.15	0.00	0.00	
30	0.33	0.13	0.27	0.26	0.40	3.53	1.50	3.28	0.34	0.15		0.00	
31		0.16		0.26	0.38		0.98		0.33	0.15		0.00	
TOTAL	3.69	4.68	10.45	6.58	11.89	129.83	109.56	201.01	28.44	6.49	2.11	0.00	514.73 CMSDAY
MEAN	0.12	0.15	0.35	0.21	0.38	4.33	3.53	6.70	0.92	0.21	0.07	0.00	1.41 CMS
MAX	0.33	0.23	0.71	0.27	0.54	13.06	14.42	24.32	2.93	0.29	0.18	0.00	24.32 CMS
MIN	0.09	0.00	0.18	0.16	0.19	0.31	0.83	0.74	0.33	0.15	0.00	0.00	0.00 CMS
RUNOFF	0.319	0.404	0.903	0.569	1.027	11.217	9.466	17.367	2.457	0.561	0.182	0.000	44.473 MCM

MOMENTARY PEAK 26.26 CMS, AT 1.58 M (A.D), AT 12.00 HOURS, ON NOV 13, 1987

RUNOFF YIELD 0.71 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK NEAR THE 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 — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

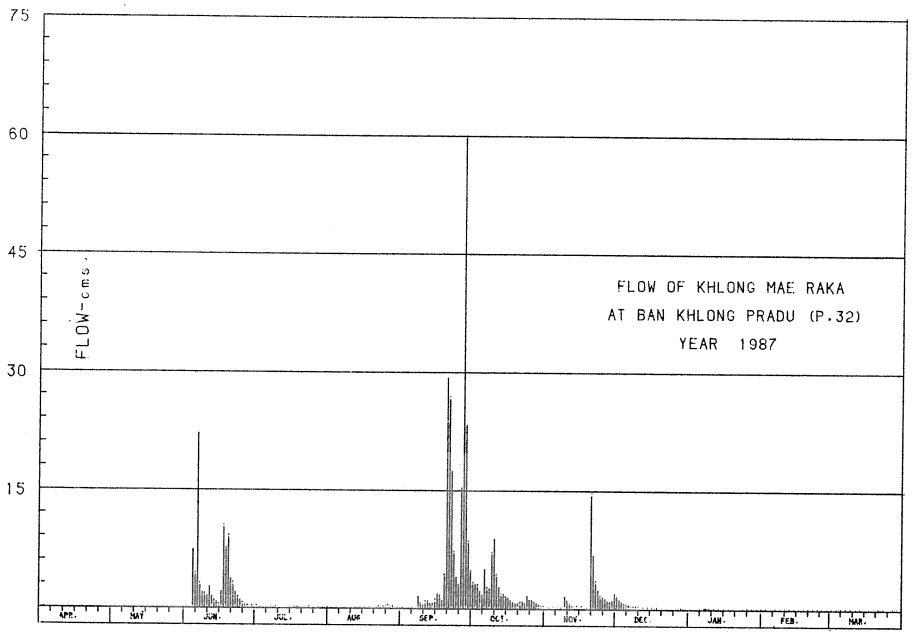
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.10	0.10	0.28	0.14	0.18	0.72	0.27	0.49	0.19	0.16	0.16	
2	0.10	0.10	0.10	0.26	0.13	0.16	0.69	0.26	0.43	0.19	0.16	0.16	
3	0.10	0.10	0.13	0.23	0.16	0.16	0.69	0.25	0.38	0.19	0.16	0.16	
4	0.10	0.10	1.08	0.23	0.15	0.15	0.59	0.25	0.35	0.19	0.16	0.16	
5	0.10	0.10	0.84	0.23	0.13	0.15	0.52	0.25	0.33	0.19	0.16	0.16	
6	0.10	0.10	1.88	0.23	0.11	0.16	0.89	0.25	0.31	0.19	0.16	0.16	
7	0.10	0.10	0.70	0.26	0.09	0.16	0.65	0.24	0.29	0.19	0.16	0.16	
8	0.10	0.10	0.55	0.25	0.08	0.49	0.63	0.25	0.29	0.19	0.16	0.16	
9	0.10	0.10	0.54	0.23	0.08	0.35	1.06	0.49	0.29	0.18	0.16	0.16	
10	0.10	0.10	0.49	0.23	0.08	0.31	1.19	0.41	0.28	0.17	0.16	0.16	
11	0.10	0.10	0.64	0.23	0.08	0.40	0.83	0.33	0.27	0.16	0.16	0.16	
12	0.10	0.10	0.48	0.22	0.15	0.39	0.65	0.29	0.26	0.16	0.16	0.16	
13	0.10	0.10	0.40	0.22	0.18	0.34	0.55	0.28	0.25	0.16	0.16	0.16	
14	0.10	0.10	0.36	0.21	0.17	0.34	0.54	0.30	0.25	0.16	0.16	0.16	
15	0.10	0.10	0.33	0.21	0.17	0.45	0.50	0.30	0.24	0.16	0.16	0.16	
16	0.10	0.10	0.57	0.21	0.17	0.54	0.46	0.28	0.24	0.16	0.16	0.16	
17	0.10	0.10	1.31	0.21	0.19	0.52	0.41	0.27	0.23	0.16	0.16	0.16	
18	0.10	0.10	1.10	0.21	0.18	0.40	0.37	0.26	0.23	0.16	0.16	0.16	
19	0.10	0.10	1.22	0.21	0.18	0.83	0.34	0.26	0.22	0.16	0.16	0.16	
20	0.10	0.10	0.76	0.20	0.18	2.18	0.34	1.53	0.21	0.16	0.16	0.16	
21	0.10	0.10	0.71	0.20	0.23	2.08	0.38	1.03	0.21	0.16	0.16	0.16	
22	0.10	0.10	0.56	0.19	0.27	1.66	0.38	0.74	0.21	0.16	0.16	0.16	
23	0.10	0.10	0.48	0.19	0.27	1.07	0.35	0.61	0.20	0.16	0.16	0.16	
24	0.10	0.10	0.40	0.19	0.24	0.79	0.50	0.52	0.20	0.16	0.16	0.16	
25	0.10	0.10	0.36	0.19	0.28	0.69	0.42	0.48	0.20	0.16	0.16	0.16	
26	0.10	0.10	0.31	0.18	0.31	1.56	0.42	0.45	0.19	0.16	0.16	0.16	
27	0.10	0.10	0.29	0.18	0.30	3.19	0.38	0.40	0.19	0.16	0.16	0.16	
28	0.10	0.10	0.28	0.17	0.27	1.93	0.35	0.38	0.19	0.16	0.16	0.16	
29	0.10	0.10	0.27	0.17	0.24	1.17	0.32	0.40	0.19	0.16	0.16	0.16	
30	0.10	0.10	0.29	0.17	0.21	0.88	0.29	0.55	0.19	0.16		0.16	
31		0.10		0.17	0.20		0.28		0.19	0.16		0.16	
MEAN	0.10	0.10	0.58	0.21	0.18	0.79	0.54	0.42	0.26	0.17	0.16	0.16	
MAX	0.10	0.10	1.88	0.28	0.31	3.19	1.19	1.53	0.49	0.19	0.16	0.16	3.19
MIN	0.10	0.10	0.10	0.17	0.08	0.15	0.28	0.24	0.19	0.16	0.16	0.16	0.08

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.22 M (A.D), AT 19.00 HOURS, ON SEP 27, 1987

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

LEFT BANK ELEVATION — 3.17 M (A.D)

RIGHT BANK ELEVATION — 3.41 M (A.D), DRAINAGE AREA — 342 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.10	0.10	0.36	0.14	0.18	3.38	0.34	1.54	0.19	0.16	0.16	
2	0.10	0.10	0.10	0.32	0.13	0.16	3.11	0.32	1.18	0.19	0.16	0.16	
3	0.10	0.10	0.13	0.26	0.16	0.16	3.11	0.30	0.88	0.19	0.16	0.16	
4	0.10	0.10	7.44	0.26	0.15	0.15	2.23	0.30	0.70	0.19	0.16	0.16	
5	0.10	0.10	4.50	0.26	0.13	0.15	1.74	0.30	0.58	0.19	0.16	0.16	
6	0.10	0.10	22.16	0.26	0.11	0.16	5.00	0.30	0.46	0.19	0.16	0.16	
7	0.10	0.10	3.20	0.32	0.09	0.16	2.75	0.28	0.38	0.19	0.16	0.16	
8	0.10	0.10	1.95	0.30	0.08	1.54	2.57	0.30	0.38	0.19	0.16	0.16	
9	0.10	0.10	1.88	0.26	0.08	0.70	7.18	1.54	0.38	0.18	0.16	0.16	
10	0.10	0.10	1.54	0.26	0.08	0.46	8.87	1.06	0.36	0.17	0.16	0.16	
11	0.10	0.10	2.66	0.26	0.08	1.00	4.40	0.58	0.34	0.16	0.16	0.16	
12	0.10	0.10	1.48	0.24	0.15	0.94	2.75	0.38	0.32	0.16	0.16	0.16	
13	0.10	0.10	1.00	0.24	0.18	0.64	1.95	0.36	0.30	0.16	0.16	0.16	
14	0.10	0.10	0.76	0.22	0.17	0.64	1.88	0.40	0.30	0.16	0.16	0.16	
15	0.10	0.10	0.58	0.22	0.17	1.30	1.60	0.40	0.28	0.16	0.16	0.16	
16	0.10	0.10	2.09	0.22	0.17	1.88	1.36	0.36	0.28	0.16	0.16	0.16	
17	0.10	0.10	10.58	0.22	0.19	1.74	1.06	0.34	0.26	0.16	0.16	0.16	
18	0.10	0.10	7.70	0.22	0.18	1.00	0.82	0.32	0.26	0.16	0.16	0.16	
19	0.10	0.10	9.28	0.22	0.18	4.40	0.64	0.32	0.24	0.16	0.16	0.16	
20	0.10	0.10	3.74	0.20	0.18	29.32	0.64	14.73	0.22	0.16	0.16	0.16	
21	0.10	0.10	3.29	0.20	0.26	26.92	0.88	6.79	0.22	0.16	0.16	0.16	
22	0.10	0.10	2.02	0.19	0.34	17.46	0.88	3.56	0.22	0.16	0.16	0.16	
23	0.10	0.10	1.48	0.19	0.34	7.31	0.70	2.39	0.20	0.16	0.16	0.16	
24	0.10	0.10	1.00	0.19	0.28	4.01	1.60	1.74	0.20	0.16	0.16	0.16	
25	0.10	0.10	0.76	0.19	0.36	3.11	1.12	1.48	0.20	0.16	0.16	0.16	
26	0.10	0.10	0.46	0.18	0.46	15.36	1.12	1.30	0.19	0.16	0.16	0.16	
27	0.10	0.10	0.38	0.18	0.40	60.04	0.88	1.00	0.19	0.16	0.16	0.16	
28	0.10	0.10	0.36	0.17	0.34	23.32	0.70	0.88	0.19	0.16	0.16	0.16	
29	0.10	0.10	0.34	0.17	0.28	8.61	0.52	1.00	0.19	0.16	0.16	0.16	
30	0.10	0.10	0.38	0.17	0.22	4.90	0.38	1.95	0.19	0.16		0.16	
31		0.10		0.17	0.20		0.36		0.19	0.16		0.16	
TOTAL	3.00	3.10	93.34	7.12	6.28	217.72	66.18	45.32	11.82	5.23	4.64	4.96	468.71 CMSDAY
MEAN	0.10	0.10	3.11	0.23	0.20	7.26	2.13	1.51	0.38	0.17	0.16	0.16	1.28 CMS
MAX	0.10	0.10	22.16	0.36	0.46	60.04	8.87	14.73	1.54	0.19	0.16	0.16	60.04 CMS
MIN	0.10	0.10	0.10	0.17	0.08	0.15	0.36	0.28	0.19	0.16	0.16	0.16	0.08 CMS
RUNOFF	0.259	0.268	8.065	0.615	0.543	18.811	5.718	3.916	1.021	0.452	0.401	0.429	40.497 MCM

MOMENTARY PEAK 61.14 CMS, AT 3.22 M (A.D), AT 19.00 HOURS, ON SEP 27, 1987

RUNOFF YIELD 3.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 178.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

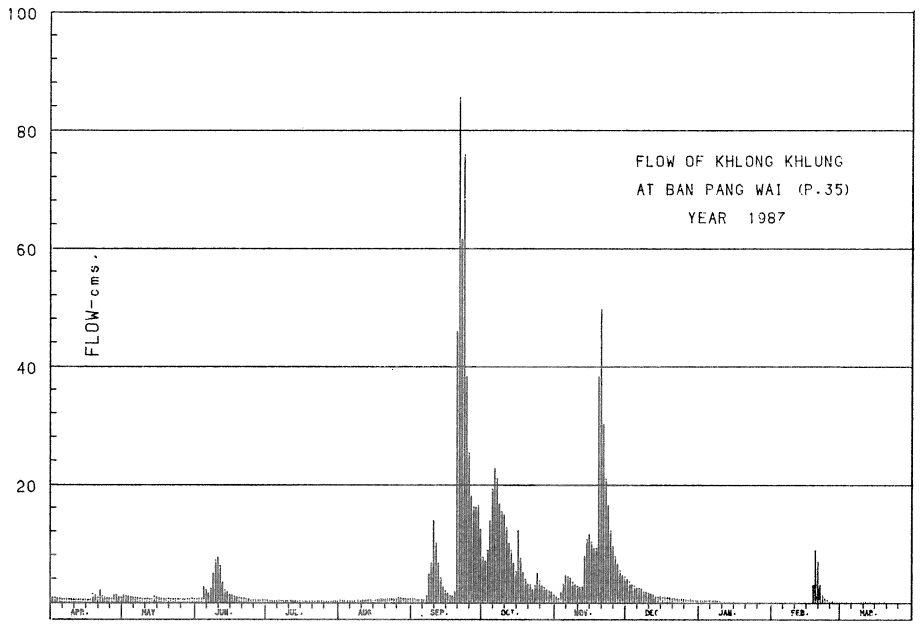
KHLONG KHLUNG AT BAN PANG WAI, KAMPHAENG PHET (P.35)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 34 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+4.502 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	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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 80 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.23	0.13	0.08	-0.03	0.15	0.77	0.20	0.51	0.06	-0.14	-0.09	
2	0.18	0.22	0.15	0.07	-0.03	0.13	0.73	0.15	0.47	0.06	-0.13	-0.09	
3	0.16	0.21	0.15	0.07	0.00	0.10	0.84	0.28	0.42	0.06	-0.15	-0.11	
4	0.15	0.20	0.38	0.06	0.01	0.10	1.08	0.43	0.40	0.05	-0.16	-0.11	
5	0.14	0.19	0.33	0.06	0.00	0.10	1.28	0.57	0.36	0.05	-0.16	-0.11	
6	0.13	0.18	0.27	0.06	-0.01	0.10	1.40	0.55	0.36	0.03	-0.16	-0.11	
7	0.14	0.17	0.35	0.06	-0.01	0.22	1.34	0.53	0.34	0.01	-0.15	-0.12	
8	0.13	0.16	0.60	0.06	-0.02	0.59	1.19	0.46	0.30	0.01	-0.13	-0.12	
9	0.13	0.14	0.74	0.05	-0.03	0.71	1.14	0.42	0.29	0.01	-0.15	-0.12	
10	0.12	0.14	0.77	0.06	-0.03	1.08	1.12	0.39	0.27	0.01	-0.15	-0.11	
11	0.12	0.15	0.68	0.05	-0.04	0.91	1.03	0.37	0.25	-0.02	-0.15	-0.10	
12	0.12	0.14	0.46	0.05	-0.01	0.71	0.91	0.38	0.24	-0.03	-0.15	-0.11	
13	0.12	0.13	0.33	0.04	0.09	0.53	0.84	0.78	0.20	-0.02	-0.15	-0.12	
14	0.11	0.21	0.29	0.03	0.10	0.38	0.71	0.94	0.20	-0.06	-0.15	-0.13	
15	0.11	0.19	0.24	0.04	0.09	0.32	0.62	0.98	0.21	-0.07	-0.17	-0.13	
16	0.10	0.16	0.23	0.04	0.07	0.27	1.01	0.92	0.19	-0.05	-0.17	-0.13	
17	0.11	0.15	0.21	0.03	0.06	0.22	0.76	0.86	0.19	-0.06	-0.17	-0.15	
18	0.26	0.14	0.19	0.03	0.05	0.21	0.61	0.86	0.18	-0.07	0.44	-0.15	
19	0.23	0.13	0.18	0.02	0.08	0.30	0.51	1.82	0.17	-0.09	0.84	-0.15	
20	0.19	0.15	0.17	0.02	0.09	1.99	0.43	2.07	0.15	-0.09	0.72	-0.15	
21	0.32	0.13	0.16	0.02	0.11	2.72	0.42	1.62	0.15	-0.10	0.41	-0.16	
22	0.22	0.13	0.14	0.02	0.09	2.31	0.33	1.34	0.13	-0.11	0.23	-0.16	
23	0.19	0.13	0.12	0.01	0.08	2.56	0.41	1.18	0.12	-0.11	0.14	-0.16	
24	0.17	0.13	0.10	0.01	0.09	1.82	0.60	1.01	0.13	-0.11	0.09	-0.16	
25	0.16	0.12	0.09	0.01	0.13	1.48	0.48	0.88	0.11	-0.11	0.03	-0.17	
26	0.15	0.12	0.08	0.01	0.18	1.24	0.40	0.78	0.10	-0.11	0.01	-0.17	
27	0.23	0.12	0.08	0.00	0.16	1.17	0.37	0.70	0.10	-0.12	-0.01	-0.18	
28	0.24	0.13	0.09	-0.01	0.14	1.17	0.33	0.63	0.09	-0.13	-0.04	-0.19	
29	0.20	0.12	0.09	-0.02	0.14	1.18	0.31	0.57	0.07	-0.14	-0.07	-0.19	
30	0.19	0.15	0.10	-0.02	0.13	1.02	0.29	0.55	0.06	-0.14		-0.20	
31		0.13		-0.02	0.13		0.24		0.06	-0.14		-0.20	
MEAN	0.17	0.15	0.26	0.03	0.06	0.86	0.73	0.77	0.22	-0.05	0.01	-0.14	
MAX	0.32	0.23	0.77	0.08	0.18	2.72	1.40	2.07	0.51	0.06	0.84	-0.09	2.72
MIN	0.10	0.12	0.08	-0.02	-0.04	0.10	0.24	0.15	0.06	-0.14	-0.17	-0.20	-0.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.76 M (A.D), AT 6.00 HOURS, ON SEP 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.18 M (A.D)
LEFT BANK ELEVATION 9.64 M (A.D)
RIGHT BANK ELEVATION 4.64 M (A.D), DRAINAGE AREA 730 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.900	1.270	0.650	0.450	0.220	0.750	7.720	1.000	4.010	0.400	0.110	0.160	
2	0.900	1.180	0.750	0.425	0.220	0.650	7.080	0.750	3.600	0.400	0.120	0.160	
3	0.800	1.090	0.750	0.425	0.250	0.500	8.880	1.720	3.100	0.400	0.100	0.140	
4	0.750	1.000	2.700	0.400	0.275	0.500	13.920	3.200	2.900	0.375	0.090	0.140	
5	0.700	0.950	2.200	0.400	0.250	0.500	19.240	4.670	2.500	0.375	0.090	0.140	
6	0.650	0.900	1.630	0.400	0.240	0.500	22.800	4.450	2.500	0.325	0.090	0.140	
7	0.700	0.850	2.400	0.400	0.240	1.180	21.000	4.230	2.300	0.275	0.100	0.130	
8	0.650	0.800	5.000	0.400	0.230	4.890	16.740	3.500	1.900	0.275	0.120	0.130	
9	0.650	0.700	7.240	0.375	0.220	6.760	15.440	3.100	1.810	0.275	0.100	0.130	
10	0.600	0.700	7.720	0.400	0.220	13.920	14.920	2.800	1.630	0.275	0.100	0.140	
11	0.600	0.750	6.280	0.375	0.210	10.110	12.720	2.600	1.450	0.230	0.100	0.150	
12	0.600	0.700	3.500	0.375	0.240	6.760	10.110	2.700	1.360	0.220	0.100	0.140	
13	0.600	0.650	2.200	0.350	0.475	4.230	8.880	7.880	1.000	0.230	0.100	0.130	
14	0.550	1.090	1.810	0.325	0.500	2.700	6.760	10.740	1.000	0.190	0.100	0.120	
15	0.550	0.950	1.360	0.350	0.475	2.100	5.320	11.580	1.090	0.180	0.080	0.120	
16	0.500	0.800	1.270	0.350	0.425	1.630	12.240	10.320	0.950	0.200	0.080	0.120	
17	0.550	0.750	1.090	0.325	0.400	1.180	7.560	9.220	0.950	0.190	0.080	0.100	
18	1.540	0.700	0.950	0.325	0.375	1.090	5.160	9.220	0.900	0.180	3.300	0.100	
19	1.270	0.650	0.900	0.300	0.450	1.900	4.010	38.300	0.850	0.160	8.880	0.100	
20	0.950	0.750	0.850	0.300	0.475	45.950	3.200	49.690	0.750	0.160	6.920	0.100	
21	2.100	0.650	0.800	0.300	0.550	85.460	3.100	30.260	0.750	0.150	3.000	0.090	
22	1.180	0.650	0.700	0.300	0.475	61.560	2.200	21.000	0.650	0.140	1.270	0.090	
23	0.950	0.650	0.600	0.275	0.450	75.880	3.000	16.480	0.600	0.140	0.700	0.090	
24	0.850	0.650	0.500	0.275	0.475	38.300	5.000	12.240	0.650	0.140	0.475	0.090	
25	0.800	0.600	0.475	0.275	0.650	25.360	3.700	9.560	0.550	0.140	0.325	0.080	
26	0.750	0.600	0.450	0.275	0.900	18.120	2.900	7.880	0.500	0.140	0.275	0.080	
27	1.270	0.600	0.450	0.250	0.800	16.220	2.600	6.600	0.500	0.130	0.240	0.070	
28	1.360	0.650	0.475	0.240	0.700	16.220	2.200	5.480	0.475	0.120	0.210	0.060	
29	1.000	0.600	0.475	0.230	0.700	16.480	2.000	4.670	0.425	0.110	0.180	0.060	
30	0.950	0.750	0.500	0.230	0.650	12.480	1.810	4.450	0.400	0.110		0.050	
31		0.650		0.230	0.650		1.360		0.400	0.110		0.050	
TOTAL	26.220	24.280	56.675	10.330	13.390	473.880	253.570	300.290	42.450	6.745	27.435	3.400	1238.665 CMSDAY
MEAN	0.874	0.783	1.889	0.333	0.432	15.796	8.180	10.010	1.369	0.218	0.946	0.110	3.384 CMS
MAX	2.100	1.270	7.720	0.450	0.900	85.460	22.800	49.690	4.010	0.400	8.880	0.160	85.460 CMS
MIN	0.500	0.600	0.450	0.230	0.210	0.500	1.360	0.750	0.400	0.110	0.080	0.050	0.050 CMS
RUNOFF	2.265	2.098	4.897	0.893	1.157	40.943	21.908	25.945	3.668	0.583	2.370	0.294	107.021 MCM

MOMENTARY PEAK 87.98 CMS, AT 2.76 M (A.D), AT 6.00 HOURS, ON SEP 21, 1987
RUNOFF YIELD 4.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 120.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

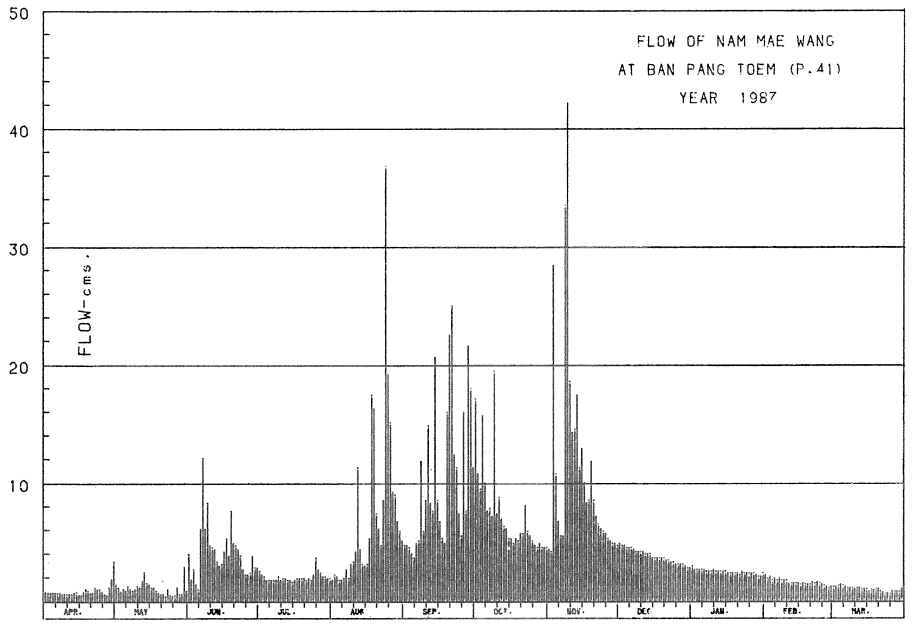
NAM MAE WANG AT BAN PANG TOEM, CHIANG MAI (P.41)

LOCATION	LAT. 18-37-00 N., LONG. 98-44-43 E., ON LEFT BANK ABOUT 1 KILOMETER FROM BAN PANG TOEM, AMPHOE SAN PA THONG, CHIANG MAI.
DRAINAGE AREA	426 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+322.20 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+329.595 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY THE WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	322.99	323.04	323.18	323.06	323.01	323.19	323.69	323.17	323.20	323.09	323.04	322.96	
2	322.98	323.02	323.07	323.04	323.04	323.19	323.46	323.16	323.19	323.07	323.02	322.96	
3	322.98	322.99	323.12	323.03	323.03	323.18	323.41	324.06	323.19	323.07	323.03	322.97	
4	322.98	323.01	323.04	323.01	323.01	323.15	323.64	323.46	323.18	323.07	323.01	322.98	
5	322.98	323.00	323.01	323.01	323.01	323.13	323.43	323.29	323.18	323.07	323.02	322.97	
6	322.98	323.03	323.26	323.01	323.02	323.20	323.33	323.23	323.18	323.07	323.01	322.96	
7	322.98	323.01	323.51	323.01	323.07	323.21	323.34	323.23	323.17	323.06	323.02	322.95	
8	322.97	323.00	323.26	323.01	323.02	323.50	323.31	324.22	323.16	323.06	323.01	322.95	
9	322.97	323.01	323.36	323.03	323.10	323.25	323.77	324.48	323.16	323.06	323.01	322.95	
10	322.97	323.03	323.19	323.01	323.11	323.37	323.32	323.74	323.16	323.07	323.01	322.94	
11	322.97	323.02	323.18	323.02	323.16	323.61	323.38	323.59	323.16	323.06	322.98	322.95	
12	322.97	323.06	323.17	323.02	323.48	323.36	323.30	323.60	323.15	323.06	322.99	322.95	
13	322.98	323.11	323.11	323.01	323.17	323.33	323.27	323.70	323.15	323.06	322.99	322.94	
14	322.99	323.05	323.09	323.01	323.10	323.81	323.26	323.48	323.15	323.06	322.99	322.94	
15	322.96	323.04	323.10	323.00	323.09	323.37	323.22	323.54	323.13	323.06	322.99	322.94	
16	322.96	323.02	323.16	323.01	323.10	323.29	323.22	323.43	323.13	323.05	322.98	322.92	
17	322.99	323.02	323.22	323.02	323.22	323.22	323.20	323.36	323.13	323.05	322.99	322.93	
18	323.01	323.00	323.14	323.02	323.70	323.20	323.22	323.37	323.13	323.05	322.98	322.93	
19	323.00	322.98	323.33	323.02	323.66	323.65	323.21	323.50	323.13	323.05	322.98	322.94	
20	322.98	322.97	323.20	323.02	323.32	323.87	323.24	323.37	323.13	323.05	322.98	322.94	
21	322.98	322.97	323.19	323.01	323.26	323.95	323.24	323.31	323.12	323.04	323.00	322.92	
22	323.02	322.95	323.17	323.02	323.19	323.52	323.35	323.28	323.12	323.06	322.99	322.91	
23	323.01	323.01	323.14	323.01	323.37	323.48	323.25	323.26	323.11	323.05	323.00	322.90	
24	323.01	322.96	323.07	323.04	324.32	323.32	323.23	323.25	323.11	323.05	322.99	322.90	
25	322.99	322.95	323.04	323.13	323.76	323.23	323.21	323.24	323.10	323.05	322.98	322.90	
26	322.97	322.96	323.04	323.07	323.62	323.65	323.19	323.22	323.10	323.05	322.97	322.92	
27	322.96	323.02	323.05	323.05	323.40	323.33	323.18	323.21	323.10	323.05	322.96	322.92	
28	323.02	322.97	323.14	323.03	323.39	323.84	323.20	323.20	323.10	323.04	322.95	322.92	
29	323.07	322.97	323.08	323.03	323.29	323.72	323.18	323.20	323.09	323.03	322.96	322.92	
30	323.15	323.13	323.08	323.02	323.25	323.48	323.18	323.19	323.08	323.03		322.94	
31		323.00		323.02	323.21		323.18		323.08	323.05		322.92	
MEAN	322.99	323.01	323.16	323.03	323.27	323.42	323.31	323.44	323.14	323.06	322.99	322.94	
MAX	323.15	323.13	323.51	323.13	324.32	323.95	323.77	324.48	323.20	323.09	323.04	322.98	324.48
MIN	322.96	322.95	323.01	323.00	323.01	323.13	323.18	323.16	323.08	323.03	322.95	322.90	322.90

ANNUAL MAX MOMENTARY GAGE HEIGHT 324.95 M (MSL), AT 5.00 HOURS, ON NOV 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 322.20 M (MSL), RIVER BED 322.71 M (MSL)
LEFT BANK ELEVATION 327.67 M (MSL)
RIGHT BANK ELEVATION 328.45 M (MSL), DRAINAGE AREA 426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.83	1.47	4.06	2.60	1.85	4.77	17.21	4.43	4.95	3.05	2.30	1.30	
2	0.74	1.20	1.89	2.30	2.30	4.77	10.86	4.25	4.77	2.75	2.00	1.30	
3	0.74	0.83	2.74	2.15	2.15	4.60	9.56	28.46	4.77	2.75	2.15	1.40	
4	0.74	1.06	1.47	1.85	1.85	4.08	15.76	10.86	4.60	2.75	1.85	1.50	
5	0.74	0.92	1.06	1.85	1.85	3.72	10.08	6.80	4.60	2.75	2.00	1.40	
6	0.74	1.33	6.18	1.85	2.00	4.95	7.69	5.57	4.60	2.75	1.85	1.30	
7	0.74	1.06	12.17	1.85	2.75	5.16	7.92	5.57	4.43	2.60	2.00	1.20	
8	0.64	0.92	6.18	1.85	2.00	11.90	7.23	33.56	4.25	2.60	1.85	1.20	
9	0.64	1.06	8.38	2.15	3.20	5.98	19.53	42.22	4.25	2.60	1.85	1.20	
10	0.64	1.33	4.77	1.85	3.38	8.61	7.46	18.66	4.25	2.75	1.85	1.10	
11	0.64	1.20	4.60	2.00	4.25	14.89	8.84	14.33	4.25	2.60	1.50	1.20	
12	0.64	1.75	4.43	2.00	11.38	8.38	7.00	14.60	4.08	2.60	1.60	1.20	
13	0.74	2.52	3.38	1.85	4.43	7.69	6.39	17.50	4.08	2.60	1.60	1.10	
14	0.83	1.61	3.05	1.85	3.20	20.71	6.18	11.38	4.08	2.60	1.60	1.10	
15	0.55	1.47	3.20	1.70	3.05	8.61	5.36	12.98	3.72	2.60	1.60	1.10	
16	0.55	1.20	4.25	1.85	3.20	6.80	5.36	10.08	3.72	2.45	1.50	0.90	
17	0.83	1.20	5.36	2.00	5.36	5.36	4.95	8.38	3.72	2.45	1.60	1.00	
18	1.06	0.92	3.90	2.00	17.50	4.95	5.36	8.61	3.72	2.45	1.50	1.00	
19	0.92	0.74	7.69	2.00	16.34	16.05	5.16	11.90	3.72	2.45	1.50	1.10	
20	0.74	0.64	4.95	2.00	7.46	22.57	5.77	8.61	3.72	2.45	1.50	1.10	
21	0.74	0.64	4.77	1.85	6.18	25.05	5.77	7.23	3.55	2.30	1.70	0.90	
22	1.20	0.46	4.43	2.00	4.77	12.44	8.15	6.59	3.55	2.60	1.60	0.80	
23	1.06	1.06	3.90	1.85	8.61	11.38	5.98	6.18	3.38	2.45	1.70	0.70	
24	1.06	0.55	2.75	2.30	36.86	7.46	5.57	5.98	3.38	2.45	1.60	0.70	
25	0.83	0.46	2.30	3.72	19.24	5.57	5.16	5.77	3.20	2.45	1.50	0.70	
26	0.64	0.55	2.30	2.75	15.18	16.05	4.77	5.36	3.20	2.45	1.40	0.90	
27	0.55	1.20	2.45	2.45	9.30	7.69	4.60	5.16	3.20	2.45	1.30	0.90	
28	1.20	0.64	3.90	2.15	9.07	21.64	4.95	4.95	3.20	2.30	1.20	0.90	
29	1.89	0.64	2.90	2.15	6.80	18.08	4.60	4.95	3.05	2.15	1.30	0.90	
30	3.40	2.96	2.90	2.00	5.98	11.38	4.60	4.77	2.90	2.15		1.10	
31		0.92		2.00	5.16		4.60		2.90	2.45		0.90	
TOTAL	27.26	34.51	126.31	64.77	226.65	311.29	232.42	335.69	119.79	78.80	48.50	33.10	1639.09 CMSDAY
MEAN	0.91	1.11	4.21	2.09	7.31	10.38	7.50	11.19	3.86	2.54	1.67	1.07	4.48 CMS
MAX	3.40	2.96	12.17	3.72	36.86	25.05	19.53	42.22	4.95	3.05	2.30	1.50	42.22 CMS
MIN	0.55	0.46	1.06	1.70	1.85	3.72	4.60	4.25	2.90	2.15	1.20	0.70	0.46 CMS
RUNOFF	2.355	2.982	10.913	5.596	19.583	26.895	20.081	29.004	10.350	6.808	4.190	2.860	141.617 MCM

MOMENTARY PEAK 58.90 CMS, AT 324.95 M (MSL), AT 5.00 HOURS, ON NOV 9, 1987

RUNOFF YIELD 10.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 138.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

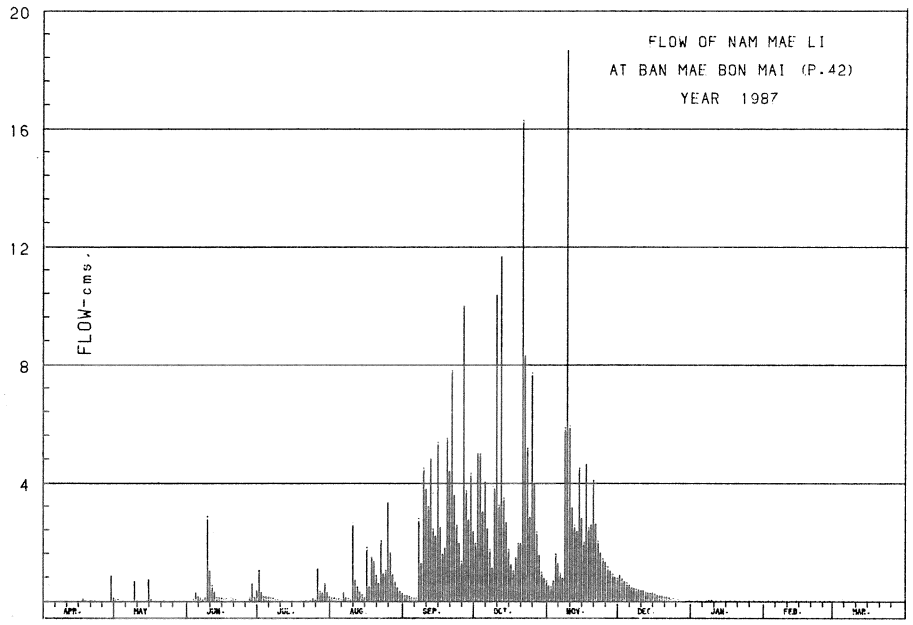
NAM MAE LI AT BAN MAE BON MAI, LAMPHUN (P.42)

LOCATION	LAT. 17-53-16 N., LONG. 99-05-20 E., ON RIGHT BANK AT BAN MAE BON MAI, KING AMPHOE THUNG HUA CHANG, LAMPHUN.
DRAINAGE AREA	315 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+500.10 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE TOP STAFF GAGE.
ELEVATION	+505.708 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 320 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	500.15	500.46	500.32	501.02	500.50	500.57	500.99	500.59	500.71	500.40	500.39	500.37	
2	500.15	500.46	500.32	500.64	500.49	500.57	501.60	500.58	500.67	500.40	500.39	500.37	
3	500.15	500.42	500.46	500.54	500.48	500.54	501.60	500.65	500.64	500.39	500.39	500.36	
4	500.15	500.38	500.63	500.53	500.47	500.50	501.24	500.90	500.63	500.39	500.39	500.36	
5	500.15	500.37	500.53	500.52	500.46	500.49	501.44	500.82	500.60	500.39	500.39	500.35	
6	500.15	500.36	500.49	500.50	500.71	500.49	501.11	500.73	500.57	500.39	500.38	500.35	
7	500.15	500.37	500.43	500.49	500.50	501.19	500.94	500.68	500.56	500.40	500.38	500.34	
8	500.15	500.37	500.50	500.47	500.48	500.82	500.78	501.73	500.55	500.41	500.38	500.34	
9	500.15	500.86	501.46	500.45	500.47	501.52	501.40	502.72	500.54	500.41	500.38	500.34	
10	500.15	500.40	501.01	500.44	501.42	501.40	502.19	501.74	500.53	500.41	500.38	500.34	
11	500.15	500.36	500.79	500.42	500.88	501.28	501.29	501.27	500.53	500.39	500.38	500.33	
12	500.15	500.35	500.65	500.41	500.76	501.57	502.29	501.14	500.51	500.39	500.38	500.33	
13	500.15	500.35	500.52	500.41	500.65	501.11	501.34	501.09	500.50	500.39	500.38	500.33	
14	500.15	500.34	500.51	500.41	500.59	501.05	501.16	501.52	500.50	500.39	500.38	500.33	
15	500.15	500.89	500.49	500.41	500.50	501.66	500.94	501.19	500.50	500.39	500.38	500.33	
16	500.15	500.45	500.48	500.40	501.25	501.12	500.81	501.00	500.49	500.39	500.38	500.33	
17	500.46	500.41	500.47	500.40	500.76	500.90	500.75	501.54	500.47	500.39	500.38	500.33	
18	500.39	500.38	500.45	500.40	501.17	500.95	500.87	501.12	500.46	500.39	500.38	500.33	
19	500.38	500.37	500.50	500.40	501.13	501.68	500.99	501.14	500.46	500.39	500.38	500.32	
20	500.38	500.37	500.48	500.40	500.95	501.50	500.99	501.45	500.45	500.39	500.38	500.32	
21	500.38	500.36	500.45	500.40	500.82	501.96	502.60	501.15	500.45	500.40	500.38	500.31	
22	500.38	500.35	500.43	500.40	501.30	501.36	502.01	501.01	500.44	500.40	500.38	500.31	
23	500.36	500.34	500.43	500.40	500.97	501.14	501.63	500.91	500.43	500.40	500.38	500.30	
24	500.34	500.34	500.40	500.47	501.02	500.99	501.20	500.86	500.43	500.40	500.38	500.30	
25	500.33	500.34	500.39	500.42	501.54	500.84	501.95	500.83	500.42	500.40	500.38	500.29	
26	500.33	500.40	500.38	501.04	501.21	502.16	501.43	500.79	500.42	500.39	500.38	500.28	
27	500.33	500.36	500.54	500.67	500.96	501.39	501.09	500.75	500.41	500.39	500.38	500.27	
28	500.32	500.34	500.81	500.63	500.84	501.18	500.89	500.72	500.41	500.39	500.38	500.25	
29	500.94	500.34	500.52	500.82	500.74	501.49	500.74	500.69	500.41	500.39	500.38	500.25	
30	500.50	500.34	500.68	500.64	500.67	501.09	500.68	500.68	500.41	500.39		500.25	
31		500.34		500.53	500.62		500.65		500.41	500.39		500.25	
MEAN	500.27	500.41	500.55	500.52	500.82	501.15	501.28	501.07	500.50	500.39	500.38	500.32	
MAX	500.94	500.89	501.46	501.04	501.54	502.16	502.60	502.72	500.71	500.41	500.39	500.37	502.72
MIN	500.15	500.34	500.32	500.40	500.46	500.49	500.65	500.58	500.41	500.39	500.38	500.25	500.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 502.93 M (MSL), AT 18.00 HOURS, ON NOV 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 500.10 M (MSL), RIVER BED 500.29 M (MSL)
LEFT BANK ELEVATION 502.76 M (MSL)
RIGHT BANK ELEVATION 504.44 M (MSL), DRAINAGE AREA 315 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.08	0.00	1.05	0.12	0.20	1.96	0.52	0.88	0.02	0.02	0.01	
2	0.00	0.08	0.00	0.30	0.11	0.20	5.00	0.50	0.76	0.02	0.02	0.01	
3	0.00	0.04	0.08	0.17	0.10	0.17	5.00	0.70	0.67	0.02	0.02	0.01	
4	0.00	0.02	0.28	0.16	0.09	0.12	3.03	1.60	0.64	0.02	0.02	0.01	
5	0.00	0.01	0.16	0.14	0.08	0.11	4.04	1.28	0.55	0.02	0.02	0.01	
6	0.00	0.01	0.11	0.12	0.40	0.11	2.45	0.96	0.47	0.02	0.02	0.01	
7	0.00	0.01	0.05	0.11	0.12	2.81	1.76	0.79	0.44	0.02	0.02	0.01	
8	0.00	0.01	0.12	0.09	0.10	1.28	1.13	5.88	0.42	0.05	0.02	0.01	
9	0.00	0.68	2.88	0.07	0.09	4.52	3.80	18.67	0.39	0.05	0.02	0.01	
10	0.00	0.02	1.03	0.06	2.66	3.80	10.37	5.95	0.36	0.05	0.02	0.01	
11	0.00	0.01	0.55	0.04	0.72	3.21	3.26	3.17	0.36	0.02	0.02	0.01	
12	0.00	0.01	0.31	0.03	0.49	4.82	11.67	2.58	0.31	0.02	0.02	0.01	
13	0.00	0.01	0.14	0.03	0.31	2.45	3.50	2.36	0.28	0.02	0.02	0.01	
14	0.00	0.01	0.13	0.03	0.23	2.20	2.67	4.52	0.28	0.02	0.02	0.01	
15	0.00	0.74	0.11	0.03	0.12	5.39	1.76	2.81	0.28	0.02	0.02	0.01	
16	0.00	0.07	0.10	0.02	1.83	2.49	1.24	2.00	0.25	0.02	0.02	0.01	
17	0.08	0.03	0.09	0.02	0.49	1.60	1.03	4.64	0.20	0.02	0.02	0.01	
18	0.02	0.02	0.07	0.02	1.50	1.80	1.48	2.49	0.18	0.02	0.02	0.01	
19	0.02	0.01	0.12	0.02	1.35	5.52	1.96	2.58	0.18	0.02	0.02	0.00	
20	0.02	0.01	0.10	0.02	0.88	4.40	1.96	4.10	0.15	0.02	0.02	0.00	
21	0.02	0.01	0.07	0.02	0.61	7.82	16.30	2.62	0.15	0.02	0.02	0.00	
22	0.02	0.01	0.05	0.02	2.05	3.60	8.31	2.04	0.12	0.02	0.02	0.00	
23	0.01	0.01	0.05	0.02	0.93	2.58	5.19	1.64	0.10	0.02	0.02	0.00	
24	0.01	0.01	0.02	0.09	1.05	1.96	2.85	1.44	0.10	0.02	0.02	0.00	
25	0.01	0.01	0.02	0.04	3.34	1.36	7.73	1.32	0.07	0.02	0.02	0.00	
26	0.01	0.02	0.02	1.10	1.64	10.00	3.98	1.17	0.07	0.02	0.02	0.00	
27	0.01	0.01	0.17	0.34	0.90	3.75	2.36	1.03	0.05	0.02	0.02	0.00	
28	0.00	0.01	0.59	0.28	0.65	2.76	1.56	0.92	0.05	0.02	0.02	0.00	
29	0.86	0.01	0.14	0.61	0.46	4.34	0.99	0.82	0.05	0.02	0.02	0.00	
30	0.12	0.01	0.35	0.30	0.34	2.36	0.79	0.79	0.05	0.02		0.00	
31		0.01		0.16	0.27		0.70		0.05	0.02		0.00	
TOTAL	1.21	2.00	7.91	5.51	24.03	87.73	119.83	81.89	8.91	0.71	0.58	0.18	340.49 CMSDAY
MEAN	0.04	0.06	0.26	0.18	0.78	2.92	3.87	2.73	0.29	0.02	0.02	0.01	0.93 CMS
MAX	0.86	0.74	2.88	1.10	3.34	10.00	16.30	18.67	0.88	0.05	0.02	0.01	18.67 CMS
MIN	0.00	0.01	0.00	0.02	0.08	0.11	0.70	0.50	0.05	0.02	0.02	0.00	0.00 CMS
RUNOFF	0.105	0.173	0.683	0.476	2.076	7.580	10.353	7.075	0.770	0.061	0.050	0.016	29.418 MCM

MOMENTARY PEAK 22.82 CMS, AT 502.93 M (MSL), AT 18.00 HOURS, ON NOV 9, 1987

RUNOFF YIELD 2.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 72.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

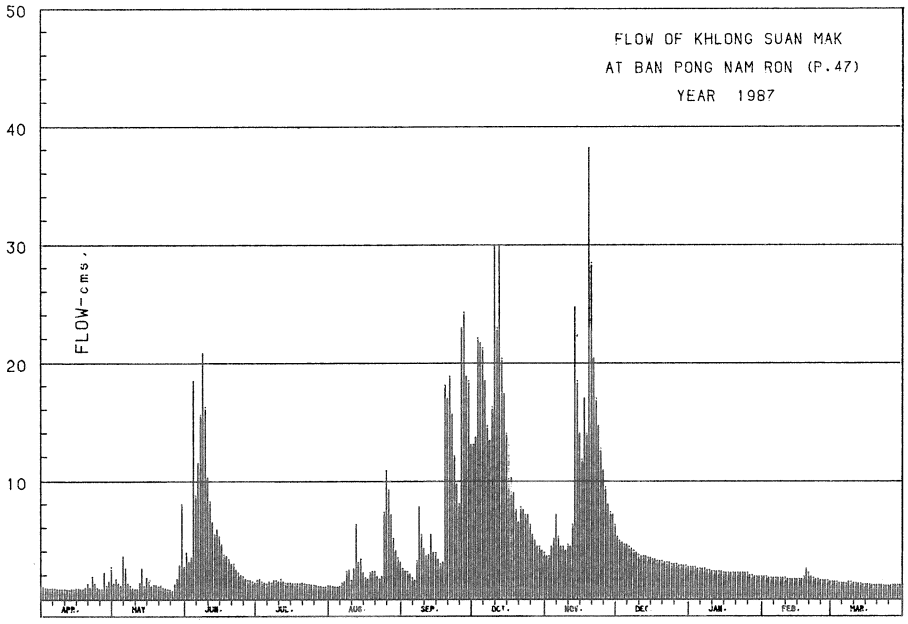
KHLONG SUAN MAK AT BAN PONG NAM RON, KAMPHAENG PHET (P.47)

LOCATION	LAT. 16°-20'-03" N., LONG. 99°-16'-29" E., ON RIGHT BANK AT BAN PONG NAM RON, AMPHOE KHLONG LAN, KAMPHAENG PHET.
DRAINAGE AREA	521 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 9 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+4.740 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 94 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.09	0.31	0.12	0.06	0.21	0.70	0.29	0.39	0.22	0.15	0.11	
2	0.03	0.13	0.25	0.13	0.05	0.19	0.72	0.29	0.37	0.22	0.15	0.11	
3	0.02	0.09	0.28	0.11	0.04	0.19	0.95	0.34	0.36	0.22	0.14	0.11	
4	0.02	0.06	0.86	0.10	0.04	0.17	0.94	0.38	0.35	0.21	0.14	0.10	
5	0.02	0.29	0.55	0.09	0.05	0.14	0.93	0.48	0.35	0.21	0.14	0.10	
6	0.02	0.21	0.65	0.11	0.10	0.12	0.86	0.39	0.34	0.21	0.14	0.10	
7	0.01	0.09	0.78	0.10	0.11	0.26	0.75	0.34	0.33	0.21	0.14	0.09	
8	0.01	0.06	0.92	0.12	0.19	0.51	0.71	0.34	0.32	0.20	0.14	0.11	
9	0.01	0.02	0.80	0.12	0.20	0.40	0.80	0.32	0.31	0.20	0.14	0.11	
10	0.01	0.01	0.61	0.11	0.12	0.33	1.12	0.35	0.30	0.19	0.14	0.10	
11	0.00	0.01	0.53	0.13	0.21	0.29	0.97	0.34	0.29	0.19	0.13	0.10	
12	0.00	0.10	0.45	0.11	0.44	0.30	1.12	0.44	0.29	0.19	0.13	0.09	
13	0.01	0.21	0.40	0.10	0.25	0.40	0.91	1.01	0.29	0.19	0.13	0.09	
14	0.01	0.06	0.42	0.10	0.27	0.31	0.83	0.86	0.28	0.19	0.13	0.08	
15	0.02	0.14	0.39	0.10	0.18	0.31	0.73	0.73	0.28	0.18	0.13	0.08	
16	0.02	0.11	0.35	0.09	0.14	0.27	0.71	0.66	0.27	0.18	0.13	0.08	
17	0.01	0.05	0.30	0.09	0.13	0.24	0.62	0.82	0.27	0.18	0.13	0.08	
18	0.01	0.07	0.29	0.09	0.18	0.25	0.56	0.73	0.26	0.18	0.15	0.07	
19	0.03	0.07	0.27	0.09	0.19	0.85	0.50	1.27	0.26	0.18	0.21	0.07	
20	0.09	0.05	0.24	0.10	0.19	0.82	0.45	1.09	0.26	0.18	0.18	0.07	
21	0.03	0.06	0.24	0.09	0.15	0.87	0.51	0.91	0.25	0.18	0.15	0.07	
22	0.15	0.03	0.20	0.08	0.13	0.78	0.50	0.82	0.25	0.18	0.14	0.07	
23	0.09	0.02	0.18	0.08	0.15	0.67	0.48	0.75	0.25	0.18	0.13	0.06	
24	0.03	0.01	0.16	0.07	0.49	0.59	0.48	0.69	0.24	0.18	0.13	0.06	
25	0.01	0.00	0.15	0.07	0.63	0.52	0.44	0.63	0.24	0.18	0.12	0.06	
26	0.01	0.01	0.13	0.06	0.57	0.97	0.40	0.58	0.24	0.16	0.12	0.06	
27	0.18	0.08	0.12	0.05	0.48	1.00	0.37	0.52	0.23	0.16	0.12	0.07	
28	0.06	0.13	0.12	0.05	0.38	0.87	0.34	0.49	0.23	0.15	0.12	0.07	
29	0.11	0.23	0.11	0.04	0.32	0.86	0.34	0.48	0.23	0.15	0.11	0.07	
30	0.22	0.52	0.10	0.04	0.28	0.70	0.32	0.44	0.23	0.15		0.07	
31		0.22		0.06	0.25		0.31		0.22	0.15		0.07	
MEAN	0.04	0.10	0.37	0.09	0.22	0.48	0.66	0.59	0.28	0.19	0.14	0.08	
MAX	0.22	0.52	0.92	0.13	0.63	1.00	1.12	1.27	0.39	0.22	0.21	0.11	1.27
MIN	0.00	-0.01	0.10	0.04	0.04	0.12	0.31	0.29	0.22	0.15	0.11	0.06	-0.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.86 M (A.D), AT 15.00 HOURS, ON NOV 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.32 M (A.D)
LEFT BANK ELEVATION 9.66 M (A.D)
RIGHT BANK ELEVATION 9.47 M (A.D), DRAINAGE AREA 521 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.040	1.340	3.970	1.620	1.160	2.630	13.100	3.670	5.330	2.760	1.950	1.510	
2	0.980	1.730	3.150	1.730	1.100	2.390	13.740	3.670	4.990	2.760	1.950	1.510	
3	0.920	1.340	3.540	1.510	1.040	2.390	22.150	4.480	4.820	2.760	1.840	1.510	
4	0.920	1.160	18.520	1.400	1.040	2.170	21.720	5.160	4.650	2.630	1.840	1.400	
5	0.920	3.670	8.800	1.340	1.100	1.840	21.290	7.180	4.650	2.630	1.840	1.400	
6	0.920	2.630	11.550	1.510	1.400	1.620	18.520	5.330	4.480	2.630	1.840	1.400	
7	0.860	1.340	15.660	1.400	1.510	3.280	14.700	4.480	4.310	2.630	1.840	1.340	
8	0.860	1.160	20.860	1.620	2.390	7.840	13.420	4.480	4.140	2.500	1.840	1.510	
9	0.860	0.920	16.300	1.620	2.500	5.500	16.300	4.140	3.970	2.500	1.840	1.510	
10	0.860	0.860	10.310	1.510	1.620	4.310	30.020	4.650	3.800	2.390	1.840	1.400	
11	0.800	0.860	8.320	1.730	2.630	3.670	23.010	4.480	3.670	2.390	1.730	1.400	
12	0.800	1.400	6.550	1.510	6.340	3.800	30.020	6.340	3.670	2.390	1.730	1.340	
13	0.860	2.630	5.500	1.400	3.150	5.500	20.430	24.770	3.670	2.390	1.730	1.340	
14	0.860	1.160	5.920	1.400	3.410	3.970	17.410	18.520	3.540	2.390	1.730	1.280	
15	0.920	1.840	5.330	1.400	2.280	3.970	14.060	14.060	3.540	2.280	1.730	1.280	
16	0.920	1.510	4.650	1.340	1.840	3.410	13.420	11.860	3.410	2.280	1.730	1.280	
17	0.860	1.100	3.800	1.340	1.730	3.020	10.620	17.040	3.410	2.280	1.730	1.280	
18	0.860	1.220	3.670	1.340	2.280	3.150	9.040	14.060	3.280	2.280	1.950	1.220	
19	0.980	1.220	3.410	1.340	2.390	18.150	7.600	38.230	3.280	2.280	2.630	1.220	
20	1.340	1.100	3.020	1.400	2.390	17.040	6.550	28.530	3.280	2.280	2.280	1.220	
21	0.980	1.160	3.020	1.340	1.950	18.890	7.840	20.430	3.150	2.280	1.950	1.220	
22	1.950	0.980	2.500	1.280	1.730	15.660	7.600	17.040	3.150	2.280	1.840	1.220	
23	1.340	0.920	2.280	1.280	1.950	12.170	7.180	14.700	3.150	2.280	1.730	1.160	
24	0.980	0.860	2.060	1.220	7.390	9.760	7.180	12.790	3.020	2.280	1.730	1.160	
25	0.860	0.800	1.950	1.220	10.930	8.080	6.340	10.930	3.020	2.280	1.620	1.160	
26	0.860	0.720	1.730	1.160	9.280	23.010	5.500	9.520	3.020	2.060	1.620	1.160	
27	2.280	1.280	1.620	1.100	7.180	24.300	4.990	8.080	2.890	2.060	1.620	1.220	
28	1.160	1.730	1.620	1.100	5.160	18.890	4.480	7.390	2.890	1.950	1.620	1.220	
29	1.510	2.890	1.510	1.040	4.140	18.520	4.480	7.180	2.890	1.950	1.510	1.220	
30	2.760	8.080	1.400	1.040	3.540	13.100	4.140	6.340	2.890	1.950		1.220	
31		2.760		1.160	3.150		3.970		2.760	1.950		1.220	
TOTAL	33.020	52.370	182.520	42.400	99.700	262.030	400.820	339.530	112.720	72.750	52.830	40.530	1691.220 CMSDAY
MEAN	1.101	1.689	6.084	1.368	3.216	8.734	12.930	11.318	3.636	2.347	1.822	1.307	4.621 CMS
MAX	2.760	8.080	20.860	1.730	10.930	24.300	30.020	38.230	5.330	2.760	2.630	1.510	38.230 CMS
MIN	0.800	0.720	1.400	1.040	1.040	1.620	3.970	3.670	2.760	1.950	1.510	1.160	0.720 CMS
RUNOFF	2.853	4.525	15.770	3.663	8.614	22.639	34.631	29.335	9.739	6.286	4.565	3.502	146.121 MCM

MOMENTARY PEAK 80.88 CMS, AT 1.86 M (A.D), AT 15.00 HOURS, ON NOV 19, 1987
RUNOFF YIELD 8.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 155.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

NAM MAE SAPUAT AT BAN MAE SAPUAT NAI, LAMPHUN (P.48)

LOCATION — LAT. 18-25-21 N., LONG. 99-05-15 E., ON RIGHT BANK ABOUT 4 KILOMETERS UPSTREAM FROM MAE SAPUAT RESERVOIR AT BAN MAE SAPUATNAI, TAMBON THA SOP SAO, AMPHOE MAE THA, LAMPHUN.

DRAINAGE AREA — 74 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 22 METERS THE EAST OF THE TOP STAFF GAGE

ELEVATION — +2.20 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 — 1983 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

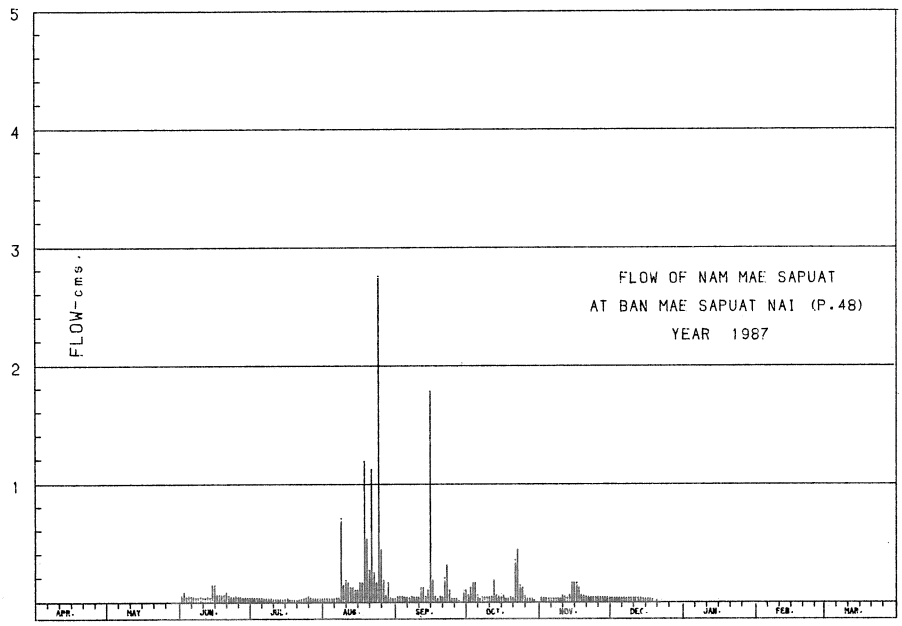
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.25	0.39	0.36	0.35	0.38	0.40	0.36	0.36	0.32	0.31	0.25	
2	0.25	0.25	0.41	0.36	0.35	0.38	0.43	0.36	0.36	0.32	0.30	0.25	
3	0.25	0.25	0.37	0.36	0.35	0.38	0.45	0.36	0.36	0.32	0.30	0.25	
4	0.25	0.25	0.38	0.36	0.35	0.37	0.45	0.35	0.36	0.32	0.30	0.25	
5	0.25	0.25	0.38	0.36	0.35	0.37	0.40	0.35	0.36	0.32	0.30	0.25	
6	0.25	0.25	0.37	0.35	0.36	0.36	0.35	0.35	0.36	0.32	0.30	0.25	
7	0.25	0.25	0.36	0.35	0.36	0.38	0.37	0.35	0.36	0.32	0.30	0.25	
8	0.25	0.25	0.36	0.35	0.60	0.37	0.37	0.35	0.36	0.32	0.30	0.25	
9	0.25	0.25	0.37	0.35	0.44	0.37	0.37	0.35	0.36	0.32	0.30	0.25	
10	0.25	0.25	0.36	0.34	0.46	0.37	0.37	0.39	0.36	0.32	0.30	0.25	
11	0.25	0.25	0.36	0.34	0.45	0.43	0.38	0.38	0.36	0.32	0.30	0.25	
12	0.25	0.25	0.37	0.34	0.43	0.43	0.46	0.36	0.36	0.32	0.30	0.25	
13	0.25	0.25	0.36	0.34	0.43	0.38	0.40	0.40	0.36	0.33	0.30	0.25	
14	0.25	0.25	0.44	0.34	0.42	0.42	0.38	0.45	0.35	0.33	0.30	0.25	
15	0.25	0.25	0.44	0.34	0.42	0.74	0.37	0.45	0.35	0.33	0.29	0.25	
16	0.25	0.25	0.40	0.34	0.45	0.46	0.39	0.45	0.35	0.32	0.29	0.25	
17	0.25	0.25	0.40	0.33	0.45	0.38	0.35	0.43	0.35	0.32	0.29	0.25	
18	0.25	0.25	0.39	0.33	0.67	0.35	0.35	0.40	0.34	0.32	0.29	0.25	
19	0.25	0.25	0.40	0.33	0.56	0.38	0.37	0.39	0.33	0.32	0.29	0.25	
20	0.25	0.25	0.41	0.33	0.50	0.37	0.36	0.38	0.33	0.31	0.29	0.25	
21	0.25	0.25	0.39	0.33	0.66	0.47	0.52	0.37	0.33	0.31	0.29	0.25	
22	0.25	0.25	0.37	0.34	0.49	0.51	0.54	0.37	0.33	0.31	0.29	0.25	
23	0.25	0.25	0.37	0.35	0.45	0.42	0.44	0.37	0.32	0.31	0.29	0.25	
24	0.25	0.25	0.38	0.36	0.83	0.35	0.43	0.37	0.32	0.31	0.29	0.25	
25	0.25	0.25	0.37	0.38	0.54	0.35	0.39	0.37	0.32	0.31	0.28	0.25	
26	0.25	0.25	0.37	0.36	0.46	0.35	0.35	0.37	0.32	0.31	0.28	0.25	
27	0.25	0.25	0.36	0.35	0.39	0.32	0.35	0.37	0.32	0.31	0.25	0.25	
28	0.25	0.25	0.36	0.35	0.45	0.32	0.35	0.37	0.32	0.31	0.25	0.25	
29	0.25	0.25	0.36	0.35	0.36	0.42	0.33	0.37	0.32	0.31	0.25	0.25	
30	0.25	0.25	0.36	0.35	0.35	0.42	0.32	0.36	0.32	0.31		0.25	
31		0.25		0.35	0.35		0.30		0.32	0.31		0.25	
MEAN	0.25	0.25	0.38	0.35	0.45	0.40	0.39	0.38	0.34	0.32	0.29	0.25	
MAX	0.25	0.25	0.44	0.38	0.83	0.74	0.54	0.45	0.36	0.33	0.31	0.25	0.83
MIN	0.25	0.25	0.36	0.33	0.35	0.32	0.30	0.35	0.32	0.31	0.25	0.25	0.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 0.98 M (A.D), AT 12.00 HOURS, ON SEP 15, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.24 M (A.D)
LEFT BANK ELEVATION 2.05 M (A.D)
RIGHT BANK ELEVATION 1.84 M (A.D), DRAINAGE AREA 74 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.054	0.036	0.030	0.048	0.060	0.036	0.036	0.012	0.006	0.000	
2	0.000	0.000	0.081	0.036	0.030	0.048	0.123	0.036	0.036	0.012	0.000	0.000	
3	0.000	0.000	0.042	0.036	0.030	0.048	0.165	0.036	0.036	0.012	0.000	0.000	
4	0.000	0.000	0.048	0.036	0.030	0.042	0.165	0.030	0.036	0.012	0.000	0.000	
5	0.000	0.000	0.048	0.036	0.030	0.042	0.060	0.030	0.036	0.012	0.000	0.000	
6	0.000	0.000	0.042	0.030	0.036	0.036	0.030	0.030	0.036	0.012	0.000	0.000	
7	0.000	0.000	0.036	0.030	0.036	0.048	0.042	0.030	0.036	0.012	0.000	0.000	
8	0.000	0.000	0.036	0.030	0.710	0.042	0.042	0.030	0.036	0.012	0.000	0.000	
9	0.000	0.000	0.042	0.030	0.144	0.042	0.042	0.030	0.036	0.012	0.000	0.000	
10	0.000	0.000	0.036	0.024	0.186	0.042	0.042	0.054	0.036	0.012	0.000	0.000	
11	0.000	0.000	0.036	0.024	0.165	0.123	0.048	0.048	0.036	0.012	0.000	0.000	
12	0.000	0.000	0.042	0.024	0.123	0.123	0.186	0.036	0.036	0.012	0.000	0.000	
13	0.000	0.000	0.036	0.024	0.123	0.048	0.060	0.060	0.036	0.018	0.000	0.000	
14	0.000	0.000	0.144	0.024	0.102	0.102	0.048	0.165	0.030	0.018	0.000	0.000	
15	0.000	0.000	0.144	0.024	0.102	1.784	0.042	0.165	0.030	0.018	0.000	0.000	
16	0.000	0.000	0.060	0.024	0.165	0.186	0.054	0.165	0.030	0.012	0.000	0.000	
17	0.000	0.000	0.060	0.018	0.165	0.048	0.030	0.123	0.030	0.012	0.000	0.000	
18	0.000	0.000	0.054	0.018	1.193	0.030	0.030	0.060	0.024	0.012	0.000	0.000	
19	0.000	0.000	0.060	0.018	0.534	0.048	0.042	0.054	0.018	0.012	0.000	0.000	
20	0.000	0.000	0.081	0.018	0.270	0.042	0.036	0.048	0.018	0.006	0.000	0.000	
21	0.000	0.000	0.054	0.018	1.124	0.207	0.358	0.042	0.018	0.006	0.000	0.000	
22	0.000	0.000	0.042	0.024	0.249	0.314	0.446	0.042	0.018	0.006	0.000	0.000	
23	0.000	0.000	0.042	0.030	0.165	0.102	0.144	0.042	0.012	0.006	0.000	0.000	
24	0.000	0.000	0.048	0.036	2.759	0.030	0.123	0.042	0.012	0.006	0.000	0.000	
25	0.000	0.000	0.042	0.048	0.446	0.030	0.054	0.042	0.012	0.006	0.000	0.000	
26	0.000	0.000	0.042	0.036	0.186	0.030	0.030	0.042	0.012	0.006	0.000	0.000	
27	0.000	0.000	0.036	0.030	0.054	0.012	0.030	0.042	0.012	0.006	0.000	0.000	
28	0.000	0.000	0.036	0.030	0.165	0.012	0.030	0.042	0.012	0.006	0.000	0.000	
29	0.000	0.000	0.036	0.030	0.036	0.102	0.018	0.042	0.012	0.006	0.000	0.000	
30	0.000	0.000	0.036	0.030	0.030	0.102	0.012	0.036	0.012	0.006		0.000	
31		0.000		0.030	0.030		0.000		0.012	0.006		0.000	
TOTAL	0.000	0.000	1.596	0.882	9.448	3.913	2.592	1.680	0.792	0.318	0.006	0.000	21.227 CMSDAY
MEAN	0.000	0.000	0.053	0.028	0.305	0.130	0.084	0.056	0.026	0.010	0.000	0.000	0.058 CMS
MAX	0.000	0.000	0.144	0.048	2.759	1.784	0.446	0.165	0.036	0.018	0.006	0.000	2.759 CMS
MIN	0.000	0.000	0.036	0.018	0.030	0.012	0.000	0.030	0.012	0.006	0.000	0.000	0.000 CMS
RUNOFF	0.000	0.000	0.138	0.076	0.816	0.338	0.224	0.145	0.068	0.027	0.001	0.000	1.834 MCM

MOMENTARY PEAK 4.98 CMS, AT 0.98 M (A.D), AT 12.00 HOURS, ON SEP 15, 1987
RUNOFF YIELD 0.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 67.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

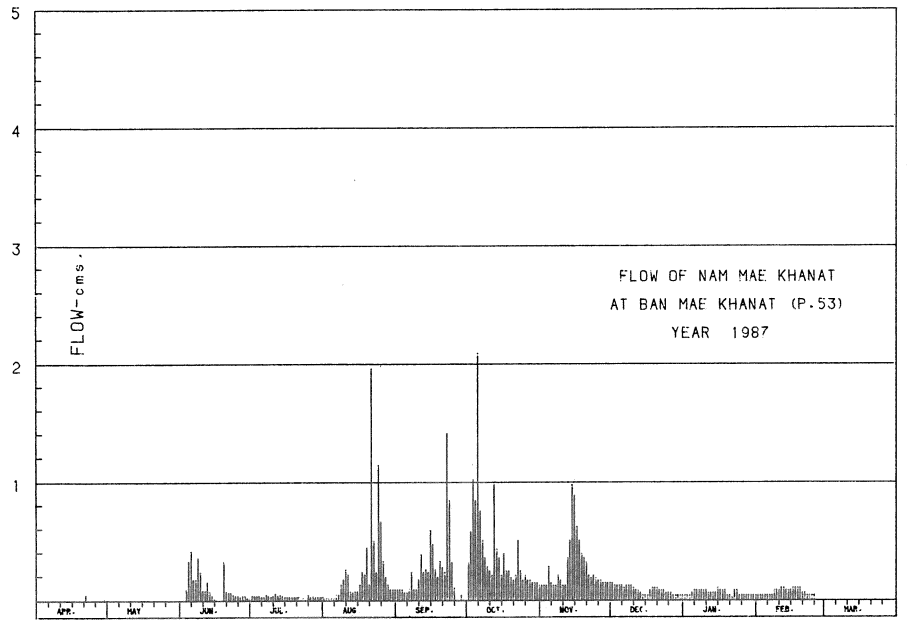
NAM MAE KHANAT AT BAN MAE KHANAT, LAMPHUN (P.53)

LOCATION	LAT. 18-23-11 N., LONG. 99-00-37 E., ON RIGHT BANK AT BAN MAE KHANAT, AMPHOE MAE THA, LAMPHUN.
DRAINAGE AREA	146 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 20 METERS NORTH OF THE TOP STAFF GAGE.
ELEVATION	+5.245 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 - 1987.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 - 1987.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 93 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.45	0.44	0.54	0.52	0.60	0.63	0.56	0.57	0.52	0.52	0.50	
2	0.30	0.45	0.44	0.54	0.52	0.60	0.70	0.56	0.56	0.52	0.52	0.50	
3	0.30	0.45	0.60	0.54	0.52	0.60	0.80	0.56	0.56	0.52	0.52	0.50	
4	0.30	0.45	0.71	0.54	0.52	0.57	0.76	0.62	0.56	0.53	0.52	0.50	
5	0.30	0.45	0.74	0.53	0.52	0.57	1.00	0.57	0.56	0.54	0.52	0.50	
6	0.30	0.45	0.64	0.53	0.55	0.58	0.74	0.56	0.55	0.54	0.52	0.50	
7	0.30	0.45	0.64	0.55	0.55	0.67	0.68	0.56	0.56	0.54	0.52	0.49	
8	0.30	0.47	0.72	0.54	0.62	0.60	0.64	0.60	0.56	0.54	0.54	0.49	
9	0.30	0.45	0.67	0.53	0.64	0.60	0.62	0.58	0.56	0.54	0.54	0.49	
10	0.30	0.44	0.59	0.54	0.68	0.64	0.61	0.56	0.55	0.54	0.54	0.49	
11	0.30	0.44	0.59	0.56	0.66	0.73	0.60	0.56	0.54	0.53	0.55	0.50	
12	0.30	0.44	0.63	0.54	0.58	0.67	0.79	0.64	0.54	0.53	0.55	0.50	
13	0.30	0.45	0.58	0.55	0.57	0.68	0.66	0.68	0.53	0.53	0.54	0.50	
14	0.30	0.44	0.54	0.54	0.58	0.67	0.64	0.79	0.52	0.53	0.54	0.49	
15	0.30	0.44	0.51	0.53	0.58	0.80	0.60	0.77	0.52	0.55	0.54	0.49	
16	0.30	0.44	0.49	0.53	0.62	0.76	0.65	0.71	0.52	0.54	0.55	0.48	
17	0.48	0.44	0.49	0.53	0.67	0.68	0.61	0.68	0.54	0.54	0.55	0.45	
18	0.46	0.44	0.49	0.53	0.66	0.65	0.61	0.65	0.55	0.54	0.55	0.47	
19	0.44	0.43	0.71	0.53	0.75	0.71	0.59	0.64	0.55	0.52	0.55	0.47	
20	0.45	0.43	0.58	0.53	0.62	0.69	0.58	0.63	0.55	0.52	0.53	0.45	
21	0.55	0.43	0.57	0.53	1.08	0.67	0.60	0.60	0.54	0.51	0.53	0.33	
22	0.44	0.43	0.57	0.52	0.77	0.88	0.68	0.59	0.54	0.54	0.52	0.33	
23	0.44	0.43	0.55	0.52	0.67	0.76	0.61	0.60	0.54	0.54	0.52	0.33	
24	0.44	0.43	0.54	0.52	0.94	0.63	0.58	0.59	0.53	0.52	0.52	0.33	
25	0.44	0.44	0.54	0.55	0.82	0.55	0.60	0.58	0.53	0.52	0.52	0.33	
26	0.44	0.45	0.53	0.53	0.71	0.50	0.58	0.58	0.53	0.52	0.50	0.30	
27	0.44	0.45	0.54	0.53	0.65	0.45	0.58	0.57	0.52	0.52	0.50	0.30	
28	0.44	0.44	0.54	0.53	0.62	0.52	0.57	0.57	0.52	0.52	0.50	0.30	
29	0.51	0.44	0.52	0.53	0.60	0.50	0.57	0.57	0.52	0.52	0.50	0.30	
30	0.46	0.44	0.52	0.53	0.60	0.47	0.57	0.57	0.52	0.52		0.30	
31		0.44		0.53	0.60		0.56		0.52	0.52		0.30	
MEAN	0.37	0.44	0.57	0.53	0.64	0.63	0.65	0.61	0.54	0.53	0.53	0.43	
MAX	0.55	0.47	0.74	0.56	1.08	0.88	1.00	0.79	0.57	0.55	0.55	0.50	1.08
MIN	0.30	0.43	0.44	0.52	0.52	0.45	0.56	0.56	0.52	0.51	0.50	0.30	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.55 M (A.D), AT 6.00 HOURS, ON AUG 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)
LEFT BANK ELEVATION 4.62 M (A.D)
RIGHT BANK ELEVATION 3.46 M (A.D), DRAINAGE AREA 146 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	0.036	0.018	0.090	0.321	0.126	0.147	0.042	0.042	0.000	
2	0.000	0.000	0.000	0.036	0.018	0.090	0.580	0.126	0.126	0.042	0.042	0.000	
3	0.000	0.000	0.090	0.036	0.018	0.090	1.020	0.126	0.126	0.042	0.042	0.000	
4	0.000	0.000	0.329	0.036	0.018	0.063	0.844	0.284	0.126	0.063	0.042	0.000	
5	0.000	0.000	0.416	0.027	0.018	0.063	2.090	0.147	0.126	0.084	0.042	0.000	
6	0.000	0.000	0.174	0.027	0.045	0.072	0.756	0.126	0.105	0.084	0.042	0.000	
7	0.000	0.000	0.174	0.045	0.045	0.237	0.506	0.126	0.126	0.084	0.042	0.000	
8	0.000	0.000	0.358	0.036	0.132	0.090	0.358	0.210	0.126	0.084	0.084	0.000	
9	0.000	0.000	0.237	0.027	0.174	0.090	0.284	0.168	0.126	0.084	0.084	0.000	
10	0.000	0.000	0.081	0.036	0.258	0.174	0.247	0.126	0.105	0.084	0.084	0.000	
11	0.000	0.000	0.081	0.054	0.216	0.387	0.210	0.126	0.084	0.063	0.105	0.000	
12	0.000	0.000	0.153	0.036	0.072	0.237	0.976	0.358	0.084	0.063	0.105	0.000	
13	0.000	0.000	0.072	0.045	0.063	0.258	0.432	0.506	0.063	0.063	0.084	0.000	
14	0.000	0.000	0.036	0.036	0.072	0.237	0.358	0.976	0.042	0.063	0.084	0.000	
15	0.000	0.000	0.009	0.027	0.072	0.590	0.210	0.888	0.042	0.105	0.084	0.000	
16	0.000	0.000	0.000	0.027	0.132	0.474	0.395	0.624	0.042	0.084	0.105	0.000	
17	0.000	0.000	0.000	0.027	0.237	0.258	0.247	0.506	0.084	0.084	0.105	0.000	
18	0.000	0.000	0.000	0.027	0.216	0.195	0.247	0.395	0.105	0.084	0.105	0.000	
19	0.000	0.000	0.329	0.027	0.445	0.329	0.189	0.358	0.105	0.042	0.105	0.000	
20	0.000	0.000	0.072	0.027	0.132	0.279	0.168	0.321	0.105	0.042	0.063	0.000	
21	0.045	0.000	0.063	0.027	1.960	0.237	0.210	0.210	0.084	0.021	0.063	0.000	
22	0.000	0.000	0.063	0.018	0.503	1.412	0.506	0.189	0.084	0.084	0.042	0.000	
23	0.000	0.000	0.045	0.018	0.237	0.844	0.247	0.210	0.084	0.084	0.042	0.000	
24	0.000	0.000	0.036	0.018	1.142	0.321	0.168	0.189	0.063	0.042	0.042	0.000	
25	0.000	0.000	0.036	0.045	0.666	0.105	0.210	0.168	0.063	0.042	0.042	0.000	
26	0.000	0.000	0.027	0.027	0.329	0.000	0.168	0.168	0.063	0.042	0.000	0.000	
27	0.000	0.000	0.036	0.027	0.195	0.000	0.168	0.147	0.042	0.042	0.000	0.000	
28	0.000	0.000	0.036	0.027	0.132	0.042	0.147	0.147	0.042	0.042	0.000	0.000	
29	0.009	0.000	0.018	0.027	0.090	0.000	0.147	0.147	0.042	0.042	0.000	0.000	
30	0.000	0.000	0.018	0.027	0.090	0.000	0.147	0.147	0.042	0.042		0.000	
31		0.000		0.027	0.090		0.126		0.042	0.042		0.000	
TOTAL	0.054	0.000	2.989	0.963	7.835	7.264	12.682	8.345	2.646	1.911	1.722	0.000	46.411 CMSDAY
MEAN	0.002	0.000	0.100	0.031	0.253	0.242	0.409	0.278	0.085	0.062	0.059	0.000	0.127 CMS
MAX	0.045	0.000	0.416	0.054	1.960	1.412	2.090	0.976	0.147	0.105	0.105	0.000	2.090 CMS
MIN	0.000	0.000	0.000	0.018	0.018	0.000	0.126	0.126	0.042	0.021	0.000	0.000	0.000 CMS
RUNOFF	0.005	0.000	0.258	0.083	0.677	0.628	1.096	0.721	0.229	0.165	0.149	0.000	4.010 MCM

MOMENTARY PEAK 10.52 CMS, AT 1.55 M (A.D), AT 6.00 HOURS, ON AUG 21, 1987
RUNOFF YIELD 0.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 72.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PING RIVER BASIN

NAM MAE TUN AT BAN MAE TUN, CHIANG MAI (P.63)

LOCATION — LAT. 18-32-31 N., LONG. 98-42-22 E., ON LEFT BANK ABOUT 6 KILOMETERS UPSTREAM FROM PONG CHOR, TAMBON YANG KHRAM, AMPHOE CHOM THONG, CHIANG MAI.

DRAINAGE AREA — 45 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +412.87 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 9.00 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +414.579 M.(M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

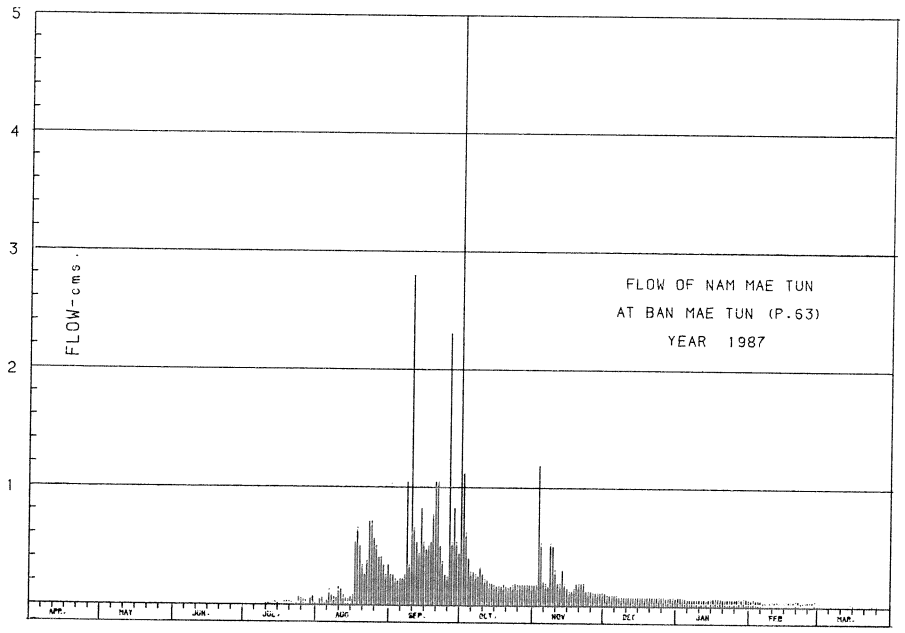
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STREAM GAGING BEGAN ON JULY 10,1987. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	*******	413.07	413.29	413.77	413.06	413.01	412.97	412.94	412.92	
2	*******	*******	*******	*******	413.16	413.29	413.40	413.06	412.99	412.97	412.95	412.91	
3	*******	*******	*******	*******	413.14	413.27	413.27	413.41	412.99	412.96	412.94	412.92	
4	*******	*******	*******	*******	413.07	413.26	413.19	413.24	412.99	412.96	412.94	412.91	
5	*******	*******	*******	*******	413.10	413.27	413.13	413.08	412.99	412.95	412.94	412.91	
6	*******	*******	*******	*******	413.22	413.27	413.13	413.07	412.99	412.95	412.92	412.91	
7	*******	*******	*******	*******	413.17	413.29	413.12	413.05	412.97	412.95	412.92	412.91	
8	*******	*******	*******	*******	413.15	413.48	413.11	413.24	412.97	412.95	412.92	412.90	
9	*******	*******	*******	*******	413.14	413.32	413.16	413.23	412.97	412.95	412.92	412.90	
10	*******	*******	*******	413.07	413.23	413.60	413.12	413.14	412.97	412.95	412.93	412.90	
11	*******	*******	*******	413.07	413.22	413.41	413.10	413.07	412.97	412.95	412.93	412.90	
12	*******	*******	*******	413.07	413.18	413.38	413.09	413.07	412.97	412.95	412.93	412.90	
13	*******	*******	*******	413.08	413.13	413.35	413.07	413.14	412.97	412.95	412.92	412.90	
14	*******	*******	*******	413.09	413.12	413.44	413.07	413.07	412.97	412.95	412.92	412.91	
15	*******	*******	*******	413.07	413.15	413.38	413.06	413.04	412.97	412.96	412.92	412.90	
16	*******	*******	*******	413.07	413.18	413.36	413.05	413.02	412.97	412.96	412.93	412.90	
17	*******	*******	*******	413.08	413.38	413.37	413.05	413.02	412.97	412.96	412.93	412.90	
18	*******	*******	*******	413.09	413.41	413.38	413.05	413.04	412.97	412.96	412.93	412.90	
19	*******	*******	*******	413.09	413.37	413.43	413.06	413.07	412.97	412.96	412.93	412.90	
20	*******	*******	*******	413.09	413.32	413.48	413.05	413.07	412.97	412.95	412.94	412.90	
21	*******	*******	*******	413.08	413.29	413.48	413.04	413.07	412.97	412.95	412.94	412.90	
22	*******	*******	*******	413.08	413.33	413.37	413.05	413.07	412.97	412.95	412.92	412.90	
23	*******	*******	*******	413.11	413.42	413.33	413.06	413.02	412.97	412.95	412.92	412.90	
24	*******	*******	*******	413.15	413.42	413.29	413.07	413.02	412.97	412.95	412.93	412.90	
25	*******	*******	*******	413.13	413.39	413.28	413.06	413.02	412.97	412.95	412.93	412.90	
26	*******	*******	*******	413.11	413.37	413.57	413.06	413.01	412.97	412.95	412.93	412.90	
27	*******	*******	*******	413.10	413.34	413.38	413.06	413.01	412.96	412.96	412.93	412.90	
28	*******	*******	*******	413.07	413.34	413.44	413.06	413.01	412.96	412.95	412.94	412.90	
29	*******	*******	*******	413.16	413.32	413.38	413.06	413.01	412.97	412.96	412.92	412.90	
30	*******	*******	*******	413.16	413.29	413.35	413.06	413.01	412.97	412.96		412.90	
31		*******		413.07	413.32		413.06		412.96	412.95		412.90	
MEAN	*******	*******	*******	*******	413.25	413.37	413.12	413.08	412.97	412.95	412.93	412.90	
MAX	*******	*******	*******	413.16	413.42	413.60	413.77	413.41	413.01	412.97	412.95	412.92	413.77
MIN	*******	*******	*******	*******	413.07	413.26	413.04	413.01	412.96	412.95	412.92	412.90	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 414.97 M (MSL), AT 15.00 HOURS, ON OCT 1, 1987
ZERO GAGE AT BOTTOM ELEVATION 412.87 M (MSL), RIVER BED 413.06 M (MSL)
LEFT BANK ELEVATION 414.91 M (MSL)
RIGHT BANK ELEVATION 416.68 M (MSL), DRAINAGE AREA 45 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	*******	0.016	0.262	5.160	0.178	0.113	0.076	0.052	0.036	
2	*******	*******	*******	*******	0.076	0.262	1.120	0.178	0.092	0.076	0.060	0.028	
3	*******	*******	*******	*******	0.064	0.226	0.616	1.188	0.092	0.068	0.052	0.036	
4	*******	*******	*******	*******	0.016	0.208	0.401	0.532	0.092	0.068	0.052	0.028	
5	*******	*******	*******	*******	0.040	0.226	0.287	0.204	0.092	0.060	0.052	0.028	
6	*******	*******	*******	*******	0.136	0.226	0.287	0.191	0.092	0.060	0.036	0.028	
7	*******	*******	*******	*******	0.082	0.262	0.268	0.165	0.076	0.060	0.036	0.028	
8	*******	*******	*******	*******	0.070	1.048	0.249	0.532	0.076	0.060	0.036	0.020	
9	*******	*******	*******	*******	0.064	0.344	0.344	0.504	0.076	0.060	0.036	0.020	
10	*******	*******	*******	0.016	0.154	2.800	0.268	0.306	0.076	0.060	0.044	0.020	
11	*******	*******	*******	0.016	0.136	0.656	0.230	0.191	0.076	0.060	0.044	0.020	
12	*******	*******	*******	0.016	0.088	0.536	0.217	0.191	0.076	0.060	0.044	0.020	
13	*******	*******	*******	0.024	0.058	0.440	0.191	0.306	0.076	0.060	0.036	0.020	
14	*******	*******	*******	0.032	0.052	0.824	0.191	0.191	0.076	0.060	0.036	0.028	
15	*******	*******	*******	0.016	0.070	0.536	0.178	0.152	0.076	0.068	0.036	0.020	
16	*******	*******	*******	0.016	0.088	0.472	0.165	0.126	0.076	0.068	0.044	0.020	
17	*******	*******	*******	0.024	0.536	0.504	0.165	0.126	0.076	0.068	0.044	0.020	
18	*******	*******	*******	0.032	0.656	0.536	0.165	0.152	0.076	0.068	0.044	0.020	
19	*******	*******	*******	0.032	0.504	0.768	0.178	0.191	0.076	0.068	0.044	0.020	
20	*******	*******	*******	0.032	0.344	1.048	0.165	0.191	0.076	0.060	0.052	0.020	
21	*******	*******	*******	0.024	0.262	1.048	0.152	0.191	0.076	0.060	0.052	0.020	
22	*******	*******	*******	0.024	0.376	0.504	0.165	0.191	0.076	0.060	0.036	0.020	
23	*******	*******	*******	0.046	0.712	0.376	0.178	0.126	0.076	0.060	0.036	0.020	
24	*******	*******	*******	0.070	0.712	0.262	0.191	0.126	0.076	0.060	0.044	0.020	
25	*******	*******	*******	0.058	0.568	0.244	0.178	0.126	0.076	0.060	0.044	0.020	
26	*******	*******	*******	0.046	0.504	2.308	0.178	0.113	0.076	0.060	0.044	0.020	
27	*******	*******	*******	0.040	0.408	0.536	0.178	0.113	0.068	0.068	0.044	0.020	
28	*******	*******	*******	0.016	0.408	0.824	0.178	0.113	0.068	0.060	0.052	0.020	
29	*******	*******	*******	0.076	0.344	0.536	0.178	0.113	0.076	0.068	0.036	0.020	
30	*******	*******	*******	0.076	0.262	0.440	0.178	0.113	0.076	0.068		0.020	
31		*******		0.016	0.344		0.178		0.068	0.060		0.020	
TOTAL	*******	*******	*******	*******	8.150	19.262	12.777	7.120	2.449	1.972	1.268	0.700	******** CMSDAY
MEAN	*******	*******	*******	*******	0.263	0.642	0.412	0.237	0.079	0.064	0.044	0.023	******** CMS
MAX	*******	*******	*******	0.076	0.712	2.800	5.160	1.188	0.113	0.076	0.060	0.036	5.160 CMS
MIN	*******	*******	*******	*******	0.016	0.208	0.152	0.113	0.068	0.060	0.036	0.020	******** CMS
RUNOFF	*******	*******	*******	*******	0.704	1.664	1.104	0.615	0.212	0.170	0.110	0.060	******** MCM

MOMENTARY PEAK 61.60 CMS, AT 414.97 M (MSL), AT 15.00 HOURS, ON OCT 1, 1987
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1368.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WANG RIVER BASIN

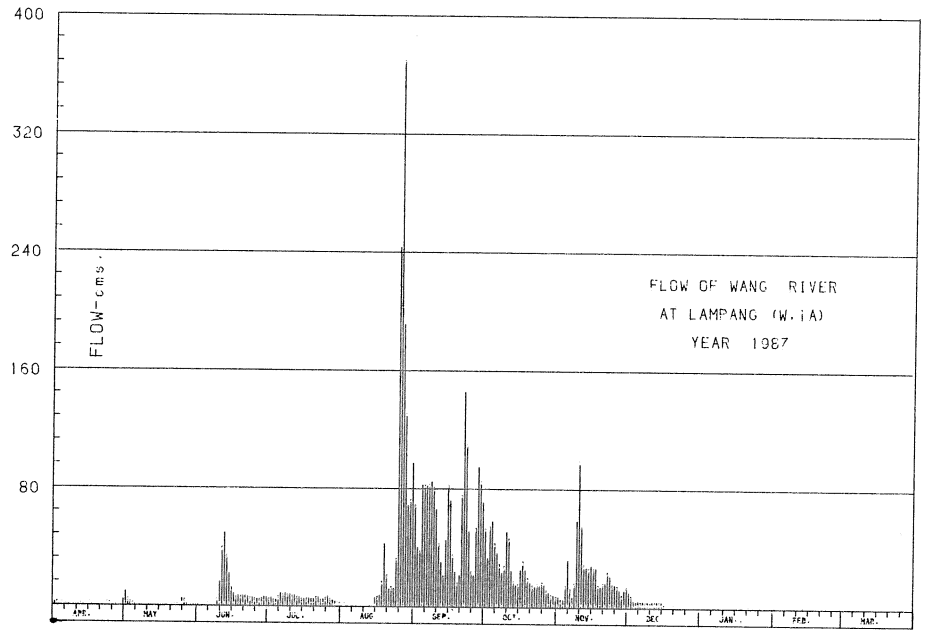
WANG RIVER AT LAMPANG, LAMPANG (W.1A)

LOCATION	LAT. 18°-17′-24″ N., LONG. 99°-29′-40″ E., ON LEFT BANK ABOUT 300 METERS UPSTREAM FROM PHATTHANA PHAK NUA 1, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	3,481 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+227.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
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	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 191 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	227.73	228.15	227.62	227.95	227.77	229.76	229.47	228.03	228.18	227.68	227.66	227.63	
2	227.78	227.92	227.64	227.96	227.76	229.17	228.97	227.96	228.10	227.66	227.65	227.63	
3	227.75	227.79	227.66	227.90	227.75	229.11	229.50	227.93	227.89	227.67	227.64	227.63	
4	227.75	227.74	227.68	227.88	227.74	229.97	229.57	228.38	227.86	227.66	227.63	227.63	
5	227.73	227.75	227.73	228.03	227.73	229.97	229.25	228.94	227.88	227.65	227.63	227.64	
6	227.72	227.73	227.72	228.12	227.71	229.96	229.07	228.28	227.87	227.66	227.64	227.64	
7	227.71	227.65	227.71	228.08	227.70	229.98	228.86	228.02	227.86	227.64	227.64	227.65	
8	227.69	227.65	227.70	228.12	227.71	230.00	228.66	228.43	227.86	227.63	227.63	227.65	
9	227.68	227.65	227.94	228.08	227.72	229.95	228.82	229.58	227.85	227.64	227.64	227.64	
10	227.68	227.65	228.42	228.08	227.70	229.71	229.43	230.20	227.84	227.66	227.64	227.64	
11	227.69	227.65	229.17	228.05	227.69	229.24	229.33	229.50	227.85	227.68	227.63	227.66	
12	227.70	227.63	229.40	228.05	227.69	228.89	228.71	228.85	227.87	227.74	227.64	227.66	
13	227.70	227.63	229.01	228.01	227.67	228.59	228.47	228.78	227.86	227.68	227.68	227.65	
14	227.71	227.62	228.62	227.98	227.67	229.30	228.37	228.78	227.88	227.68	227.65	227.64	
15	227.75	227.64	228.27	227.94	227.98	229.97	228.41	228.82	227.84	227.67	227.64	227.65	
16	227.77	227.63	228.11	227.92	228.04	229.81	228.73	228.78	227.74	227.66	227.67	227.66	
17	227.75	227.63	228.03	227.96	228.06	229.04	228.92	228.77	227.74	227.65	227.68	227.66	
18	227.73	227.63	228.03	227.94	228.46	228.68	228.73	228.38	227.70	227.64	227.67	227.66	
19	227.73	227.63	228.03	227.93	229.23	228.43	228.55	228.33	227.74	227.64	227.68	227.66	
20	227.74	227.62	228.04	227.92	228.61	228.60	228.43	228.43	227.74	227.64	227.68	227.65	
21	227.75	227.62	228.04	228.01	228.25	229.87	228.37	228.42	227.70	227.64	227.68	227.62	
22	227.76	227.64	228.00	227.99	228.32	230.69	228.33	228.70	227.67	227.63	227.66	227.62	
23	227.78	227.68	227.97	227.91	228.27	230.33	228.43	228.59	227.69	227.63	227.65	227.62	
24	227.75	227.77	227.96	227.91	228.96	229.43	228.35	228.40	227.71	227.63	227.63	227.63	
25	227.75	227.91	227.95	227.98	231.40	228.69	228.45	228.38	227.75	227.64	227.64	227.64	
26	227.69	227.90	227.91	228.02	232.09	228.60	228.37	228.36	227.73	227.64	227.64	227.69	
27	227.70	227.72	227.92	227.95	231.06	229.48	228.24	228.24	227.69	227.64	227.63	227.65	
28	227.72	227.69	227.94	227.87	230.55	230.14	228.17	228.11	227.70	227.65	227.65	227.62	
29	227.73	227.66	228.00	227.83	229.75	230.01	228.11	228.23	227.69	227.64	227.65	227.60	
30	228.03	227.64	227.98	227.79	229.82	229.79	228.09	228.34	227.67	227.64		227.62	
31		227.63		227.78	230.17		228.06		227.65	227.64		227.64	
MEAN	227.74	227.70	228.07	227.97	228.61	229.51	228.68	228.56	227.80	227.65	227.65	227.64	
MAX	228.03	228.15	229.40	228.12	232.09	230.69	229.57	230.20	228.18	227.74	227.68	227.69	232.09
MIN	227.68	227.62	227.62	227.78	227.67	228.43	228.06	227.93	227.65	227.63	227.63	227.60	227.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 232.39 M (MSL), AT 5.00 HOURS, ON AUG 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 227.80 M (MSL), RIVER BED 226.65 M (MSL)
LEFT BANK ELEVATION 233.70 M (MSL)
RIGHT BANK ELEVATION 232.33 M (MSL), DRAINAGE AREA 3481 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.96	9.35	0.96	5.30	2.44	68.98	53.03	6.80	10.04	1.44	1.28	1.04	
2	2.56	4.76	1.12	5.48	2.32	40.09	32.95	5.48	8.20	1.28	1.20	1.04	
3	2.20	2.68	1.28	4.40	2.20	37.87	54.50	4.94	4.24	1.36	1.12	1.04	
4	2.20	2.08	1.44	4.08	2.08	82.40	58.14	15.08	3.76	1.28	1.04	1.04	
5	1.96	2.20	1.96	6.80	1.96	82.40	43.20	31.90	4.08	1.20	1.04	1.12	
6	1.84	1.96	1.84	8.66	1.72	81.70	36.45	12.50	3.92	1.28	1.12	1.12	
7	1.72	1.20	1.72	7.80	1.60	83.10	29.18	6.60	3.76	1.12	1.12	1.20	
8	1.52	1.20	1.60	8.66	1.72	84.50	23.00	16.44	3.76	1.04	1.04	1.20	
9	1.44	1.20	5.12	7.80	1.84	81.00	27.86	58.66	3.60	1.12	1.12	1.12	
10	1.44	1.20	16.16	7.80	1.60	66.08	51.07	99.50	3.44	1.28	1.12	1.12	
11	1.52	1.20	40.09	7.20	1.52	42.80	46.52	54.50	3.60	1.44	1.04	1.28	
12	1.60	1.04	49.60	7.20	1.52	30.17	24.50	28.85	3.92	2.08	1.12	1.28	
13	1.60	1.04	34.35	6.40	1.36	20.92	17.56	26.60	3.76	1.44	1.44	1.20	
14	1.72	0.96	21.80	5.84	1.36	45.20	14.82	26.60	4.08	1.44	1.20	1.12	
15	2.20	1.12	12.25	5.12	5.84	82.40	15.88	27.86	3.44	1.36	1.12	1.20	
16	2.44	1.04	8.43	4.76	7.00	71.92	25.10	26.60	2.08	1.28	1.36	1.28	
17	2.20	1.04	6.80	5.48	7.40	35.40	31.20	26.30	2.08	1.20	1.44	1.28	
18	1.96	1.04	6.80	5.12	17.28	23.60	25.10	15.08	1.60	1.12	1.36	1.28	
19	1.96	1.04	6.80	4.94	42.40	16.44	19.80	13.78	2.08	1.12	1.44	1.28	
20	2.08	0.96	7.00	4.76	21.50	21.20	16.44	16.44	2.08	1.12	1.44	1.20	
21	2.20	0.96	7.00	6.40	11.75	75.64	14.82	16.16	1.60	1.12	1.44	0.96	
22	2.32	1.12	6.20	6.02	13.52	145.40	13.78	24.20	1.36	1.04	1.28	0.96	
23	2.56	1.44	5.66	4.58	12.25	110.20	16.44	20.92	1.52	1.04	1.20	0.96	
24	2.20	2.44	5.48	4.58	32.60	51.07	14.30	15.60	1.72	1.04	1.04	1.04	
25	2.20	4.58	5.30	5.84	243.00	23.90	17.00	15.08	2.20	1.12	1.12	1.12	
26	1.52	4.40	4.58	6.60	369.55	21.20	14.82	14.56	1.96	1.12	1.12	1.52	
27	1.60	1.84	4.76	5.30	191.10	53.52	11.50	11.50	1.52	1.12	1.04	1.20	
28	1.84	1.52	5.12	3.92	130.75	94.70	9.81	8.43	1.60	1.20	1.20	0.96	
29	1.96	1.28	6.20	3.28	68.40	85.20	8.43	11.25	1.52	1.12	1.20	0.80	
30	6.80	1.12	5.84	2.68	72.54	70.72	8.00	14.04	1.36	1.12		0.96	
31		1.04		2.56	97.10		7.40		1.20	1.12		1.12	
TOTAL	63.32	60.05	283.26	175.36	1369.22	1829.72	782.60	672.25	95.08	38.16	34.80	35.04	5438.86 CMSDAY
MEAN	2.11	1.94	9.44	5.66	44.17	60.99	25.25	22.41	3.07	1.23	1.20	1.13	14.86 CMS
MAX	6.80	9.35	49.60	8.66	369.55	145.40	58.14	99.50	10.04	2.08	1.44	1.52	369.55 CMS
MIN	1.44	0.96	0.96	2.56	1.36	16.44	7.40	4.94	1.20	1.04	1.04	0.80	0.80 CMS
RUNOFF	5.471	5.188	24.474	15.151	118.301	158.088	67.617	58.082	8.215	3.297	3.007	3.027	469.918 MCM

MOMENTARY PEAK 429.00 CMS, AT 232.39 M (MSL), AT 5.00 HOURS, ON AUG 26, 1987
RUNOFF YIELD 4.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 123.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WANG RIVER BASIN

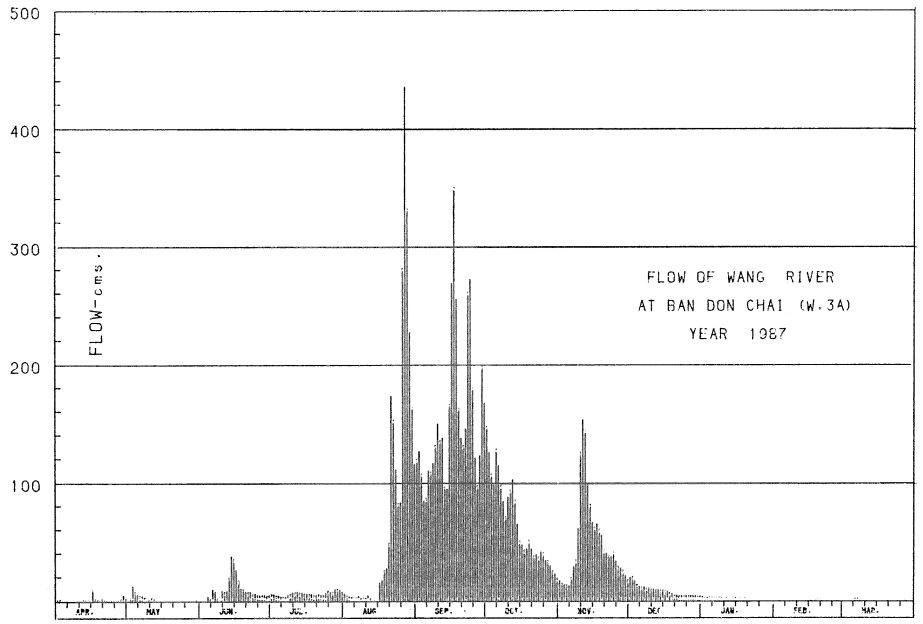
WANG RIVER AT BAN DON CHAI, LAMPANG (W.3A)

LOCATION	LAT. 17°-38'-29" N., LONG. 99°-14'-04" E., ON RIGHT BANK ABOUT 30 METERS UPSTREAM FROM SIRIYONG BRIDGE, AMPHOE THOEN, LAMPANG.
DRAINAGE AREA	8,985 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+161.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 15 METERS FROM AUTOMATIC GAGE BUILDING.
ELEVATION	+167.074 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	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	161.23	161.30	161.15	161.49	161.49	163.52	163.80	161.90	161.98	161.40	161.24	161.20	
2	161.25	161.44	161.14	161.47	161.44	163.59	163.58	161.84	162.00	161.36	161.24	161.20	
3	161.23	161.76	161.14	161.44	161.39	163.38	163.38	161.80	161.89	161.35	161.23	161.19	
4	161.24	161.59	161.38	161.43	161.37	163.10	163.27	161.80	161.81	161.36	161.22	161.19	
5	161.23	161.47	161.27	161.39	161.34	163.13	163.61	161.77	161.75	161.36	161.22	161.19	
6	161.23	161.45	161.65	161.37	161.35	163.41	163.46	161.98	161.74	161.35	161.22	161.18	
7	161.24	161.42	161.58	161.36	161.41	163.40	163.27	162.18	161.73	161.35	161.22	161.16	
8	161.24	161.36	161.31	161.45	161.30	163.48	163.09	162.31	161.71	161.36	161.21	161.16	
9	161.24	161.30	161.39	161.50	161.33	163.64	162.92	162.77	161.70	161.35	161.19	161.14	
10	161.23	161.27	161.61	161.54	161.31	163.82	163.14	163.58	161.68	161.34	161.19	161.14	
11	161.24	161.33	161.58	161.56	161.43	163.68	163.22	163.85	161.66	161.34	161.19	161.16	
12	161.24	161.26	161.60	161.57	161.30	163.70	163.32	163.77	161.64	161.32	161.18	161.17	
13	161.24	161.24	161.98	161.55	161.24	163.25	163.11	163.27	161.64	161.34	161.17	161.16	
14	161.24	161.27	162.37	161.53	161.22	163.23	162.83	163.06	161.64	161.35	161.17	161.14	
15	161.23	161.28	162.33	161.51	161.20	163.97	162.61	162.85	161.63	161.34	161.17	161.14	
16	161.69	161.24	162.12	161.49	161.93	164.75	162.55	162.79	161.61	161.34	161.17	161.13	
17	161.29	161.23	161.91	161.49	161.90	165.23	162.47	162.83	161.59	161.33	161.17	161.13	
18	161.23	161.21	161.69	161.48	162.12	164.66	162.49	162.76	161.55	161.33	161.21	161.13	
19	161.20	161.21	161.67	161.45	162.15	163.94	162.62	162.68	161.50	161.32	161.25	161.13	
20	161.30	161.16	161.57	161.45	162.58	163.70	162.49	162.47	161.45	161.32	161.25	161.13	
21	161.25	161.15	161.57	161.48	164.03	163.64	162.38	162.42	161.44	161.31	161.25	161.13	
22	161.22	161.14	161.57	161.45	163.85	163.78	162.40	162.39	161.42	161.30	161.25	161.12	
23	161.26	161.14	161.49	161.45	163.42	164.70	162.36	162.36	161.42	161.30	161.24	161.12	
24	161.19	161.14	161.49	161.52	163.07	164.77	162.44	162.44	161.42	161.29	161.27	161.12	
25	161.19	161.14	161.46	161.61	163.08	164.09	162.43	162.29	161.42	161.28	161.28	161.12	
26	161.19	161.13	161.44	161.55	164.83	163.53	162.30	162.19	161.43	161.28	161.28	161.12	
27	161.22	161.14	161.45	161.58	165.68	163.26	162.30	162.16	161.43	161.28	161.28	161.10	
28	161.26	161.13	161.45	161.66	165.13	163.55	162.20	162.12	161.43	161.26	161.27	161.10	
29	161.44	161.16	161.42	161.69	164.46	164.24	162.11	162.01	161.42	161.25	161.23	161.09	
30	161.30	161.20	161.44	161.63	163.95	163.98	162.05	161.92	161.41	161.24		161.08	
31		161.18		161.58	163.47		161.96		161.41	161.24		161.08	
MEAN	161.26	161.27	161.57	161.51	162.44	163.80	162.78	162.49	161.60	161.32	161.22	161.14	
MAX	161.69	161.76	162.37	161.69	165.68	165.23	163.80	163.85	162.00	161.40	161.28	161.20	165.68
MIN	161.19	161.13	161.14	161.36	161.20	163.10	161.96	161.77	161.41	161.24	161.17	161.08	161.08

ANNUAL MAX MOMENTARY GAGE HEIGHT 165.74 M (MSL), AT 14.00 HOURS, ON AUG 27, 1987
ZERO GAGE AT BOTTOM ELEVATION 161.00 M (MSL), RIVER BED 160.02 M (MSL)
LEFT BANK ELEVATION 169.15 M (MSL)
RIGHT BANK ELEVATION 170.02 M (MSL), DRAINAGE AREA 8985 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.45	2.50	0.50	6.07	6.07	120.40	148.00	17.50	20.30	4.00	1.60	1.00	
2	1.75	4.92	0.40	5.61	4.92	127.05	126.10	15.40	21.00	3.40	1.60	1.00	
3	1.45	12.80	0.40	4.92	3.85	107.80	107.80	14.00	17.15	3.25	1.45	0.90	
4	1.60	8.37	3.70	4.69	3.55	85.00	98.45	14.00	14.35	3.40	1.30	0.90	
5	1.45	5.61	2.05	3.85	3.10	87.25	129.00	13.10	12.50	3.40	1.30	0.90	
6	1.45	5.15	9.80	3.55	3.25	110.40	114.90	20.30	12.20	3.25	1.30	2.34	
7	1.60	4.46	8.14	3.40	4.23	109.50	98.45	29.10	11.90	3.25	1.30	2.08	
8	1.60	3.40	2.65	5.15	2.50	116.70	84.25	35.00	11.30	3.40	1.15	2.08	
9	1.60	2.50	3.85	6.30	2.95	132.00	71.50	61.55	11.00	3.25	0.90	1.82	
10	1.45	2.05	8.84	7.22	2.65	150.20	88.00	126.10	10.52	3.10	0.90	1.82	
11	1.60	2.95	8.14	7.68	4.69	136.00	94.20	153.50	10.04	3.10	0.90	2.08	
12	1.60	1.90	8.60	7.91	2.50	138.00	102.70	145.00	9.56	2.80	0.80	2.21	
13	1.60	1.60	20.30	7.45	1.60	96.75	85.75	98.45	9.56	3.10	0.70	2.08	
14	1.60	2.05	38.00	6.99	1.30	95.05	65.45	82.00	9.56	3.25	0.70	1.82	
15	1.45	2.20	36.00	6.53	1.00	166.70	51.15	66.75	9.32	3.10	0.70	1.82	
16	10.76	1.60	26.40	6.07	18.55	269.25	47.75	62.85	8.84	3.10	0.70	1.69	
17	2.35	1.45	17.85	6.07	17.50	350.40	43.35	65.45	8.37	2.95	0.70	1.69	
18	1.45	1.15	10.76	5.84	26.40	255.70	44.45	60.90	7.45	2.95	1.15	1.69	
19	1.00	1.15	10.28	5.15	27.75	163.40	51.80	55.70	6.30	2.80	1.75	1.69	
20	2.50	0.60	7.91	5.15	49.40	138.00	44.45	43.35	5.15	2.80	1.75	1.69	
21	1.75	0.50	7.91	5.84	173.60	132.00	38.50	40.60	4.92	2.65	1.75	1.69	
22	1.30	0.40	7.91	5.15	153.50	146.00	39.50	39.00	4.46	2.50	1.75	1.56	
23	1.90	0.40	6.07	5.15	111.30	261.50	37.50	37.50	4.46	2.50	1.60	1.56	
24	0.90	0.40	6.07	6.76	82.75	272.35	41.70	41.70	4.46	2.35	2.05	1.56	
25	0.90	0.40	5.38	8.84	83.50	180.80	41.15	34.05	4.46	2.20	2.20	1.56	
26	0.90	0.30	4.92	7.45	281.80	121.35	34.50	29.55	4.69	2.20	2.20	1.56	
27	1.30	0.40	5.15	8.14	435.60	97.60	34.50	28.20	4.69	2.20	2.20	1.30	
28	1.90	0.30	5.15	10.04	332.40	123.25	30.00	26.40	4.69	1.90	2.05	1.30	
29	4.92	0.60	4.46	10.76	227.60	199.00	25.95	21.45	4.46	1.75	1.45	1.17	
30	2.50	1.00	4.92	9.32	164.50	167.80	23.25	18.20	4.23	1.60		1.04	
31		0.80		8.14	115.80		19.60		4.23	1.60		1.04	
TOTAL	59.58	73.91	282.51	201.19	2350.11	4657.20	2063.65	1496.65	276.12	87.10	39.90	48.64	11636.56 CMSDAY
MEAN	1.99	2.38	9.42	6.49	75.81	155.24	66.57	49.89	8.91	2.81	1.38	1.57	31.79 CMS
MAX	10.76	12.80	38.00	10.76	435.60	350.40	148.00	153.50	21.00	4.00	2.20	2.34	435.60 CMS
MIN	0.90	0.30	0.40	3.40	1.00	85.00	19.60	13.10	4.23	1.60	0.70	0.90	0.30 CMS
RUNOFF	5.148	6.386	24.409	17.383	203.050	402.382	178.299	129.311	23.857	7.525	3.447	4.202	1005.399 MCM

MOMENTARY PEAK 447.50 CMS, AT 165.74 M (MSL), AT 14.00 HOURS, ON AUG 27, 1987

RUNOFF YIELD 3.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 49.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WANG RIVER BASIN

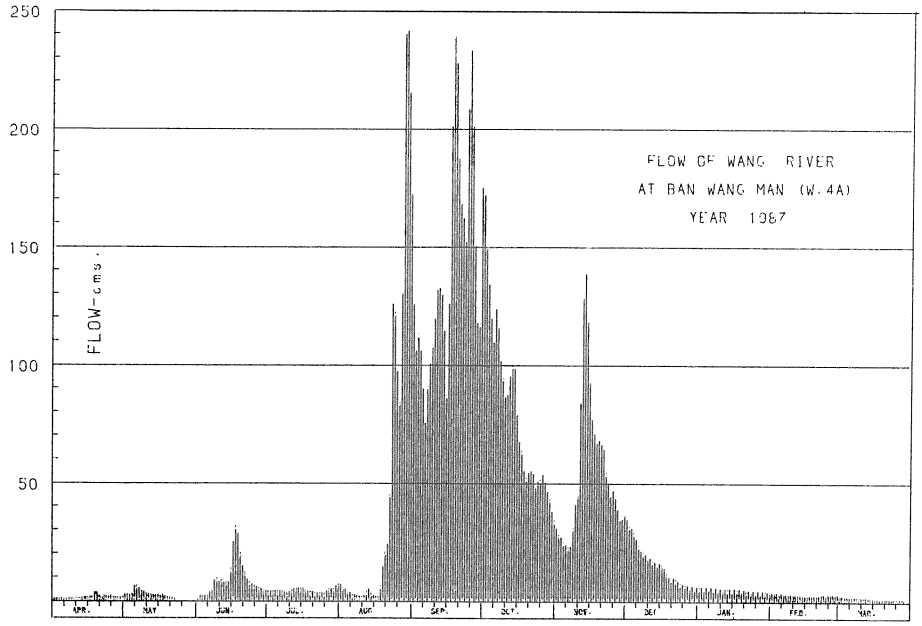
WANG RIVER AT BAN WANG MAN, TAK (W.4A)

LOCATION	LAT. 17°-12'-22" N., LONG. 99°-06'-08" E., ON RIGHT BANK ABOUT 200 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE SAM NGAO, TAK.
DRAINAGE AREA	10,507 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+130.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF WAT WANG MAN.
ELEVATION	+136.071 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 12,320 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	130.70	130.89	130.73	130.98	131.15	134.04	134.77	132.00	132.10	131.10	130.94	130.86	
2	130.70	130.90	130.84	130.98	131.10	133.67	134.40	131.92	132.02	131.09	130.94	130.84	
3	130.70	130.87	130.84	130.99	131.03	133.80	134.18	131.88	132.00	131.09	130.94	130.81	
4	130.70	130.91	130.84	130.99	130.99	133.67	133.91	131.82	131.95	131.09	130.93	130.80	
5	130.70	131.12	130.84	130.99	130.94	133.40	133.76	131.78	131.86	131.09	130.93	130.78	
6	130.70	131.13	130.95	130.98	130.89	133.08	133.98	131.75	131.78	131.09	130.91	130.78	
7	130.70	131.06	130.98	130.98	130.87	133.39	133.87	131.76	131.70	131.08	130.91	130.79	
8	130.70	131.01	131.25	130.95	130.84	133.57	133.59	132.00	131.67	131.07	130.90	130.79	
9	130.70	130.97	131.29	130.93	130.81	133.72	133.46	132.27	131.65	131.06	130.90	130.78	
10	130.71	130.93	131.21	130.96	130.81	133.91	133.30	132.38	131.62	131.05	130.89	130.77	
11	130.71	130.91	131.25	131.01	130.84	134.14	133.35	133.25	131.60	131.05	130.89	130.77	
12	130.70	130.89	131.20	131.04	130.98	134.13	133.47	134.08	131.57	131.05	130.87	130.77	
13	130.68	130.86	131.21	131.06	131.03	134.11	133.56	134.23	131.55	131.05	130.86	130.76	
14	130.68	130.87	131.21	131.06	130.93	133.82	133.53	133.91	131.53	131.05	130.85	130.74	
15	130.69	130.86	131.45	131.06	130.84	133.32	133.18	133.42	131.53	131.05	130.84	130.74	
16	130.77	130.84	131.82	131.05	130.81	134.02	132.91	133.14	131.52	131.05	130.84	130.72	
17	130.76	130.87	132.03	131.01	130.79	135.18	132.83	132.98	131.46	131.04	130.84	130.72	
18	131.06	130.82	131.93	130.98	131.13	135.67	132.63	132.93	131.37	131.04	130.84	130.72	
19	130.95	130.78	131.67	130.97	131.48	135.54	132.56	132.92	131.31	131.03	130.84	130.72	
20	130.85	130.77	131.49	130.96	131.69	134.97	132.61	132.92	131.30	131.02	130.84	130.73	
21	130.72	130.75	131.39	130.94	131.79	134.71	132.67	132.84	131.30	131.01	130.85	130.73	
22	130.82	130.73	131.27	130.93	132.38	134.60	132.60	132.61	131.27	131.00	130.89	130.73	
23	130.82	130.70	131.22	130.94	134.02	134.47	132.49	132.50	131.23	131.00	130.89	130.73	
24	130.80	130.68	131.16	130.94	133.96	135.26	132.52	132.40	131.19	131.00	130.89	130.73	
25	130.82	130.67	131.13	130.93	133.51	135.61	132.54	132.42	131.16	131.00	130.89	130.73	
26	130.80	130.63	131.10	130.98	133.26	135.16	132.59	132.38	131.14	130.99	130.89	130.73	
27	130.77	130.63	131.07	131.05	134.09	134.44	132.55	132.21	131.13	130.99	130.89	130.72	
28	130.77	130.62	131.04	131.04	135.70	133.88	132.41	132.13	131.12	130.98	130.89	130.70	
29	130.77	130.63	131.01	131.05	135.70	133.88	132.33	132.10	131.11	130.98	130.89	130.69	
30	130.79	130.63	130.99	131.11	135.37	134.79	132.19	132.17	131.11	130.96		130.69	
31		130.61		131.17	134.75		132.09		131.10	130.95		130.68	
MEAN	130.76	130.82	131.21	131.00	132.08	134.27	133.12	132.57	131.48	131.04	130.89	130.75	
MAX	131.06	131.13	132.03	131.17	135.70	135.67	134.77	134.23	132.10	131.10	130.94	130.86	135.70
MIN	130.68	130.61	130.73	130.93	130.79	133.08	132.09	131.75	131.10	130.95	130.84	130.68	130.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 135.73 M (MSL), AT 1.00 HOURS, ON AUG 29, 1987
ZERO GAGE AT BOTTOM ELEVATION 130.00 M (MSL), RIVER BED 130.37 M (MSL)
LEFT BANK ELEVATION 136.14 M (MSL)
RIGHT BANK ELEVATION 135.99 M (MSL), DRAINAGE AREA 10507 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.00	2.90	1.30	4.31	7.08	127.20	173.66	31.00	34.70	6.27	3.65	2.60	
2	1.00	3.00	2.40	4.31	6.27	106.05	149.20	28.28	31.74	6.10	3.65	2.40	
3	1.00	2.70	2.40	4.47	5.12	113.20	135.68	26.98	31.00	6.10	3.65	2.10	
4	1.00	3.16	2.40	4.47	4.47	106.05	119.58	25.12	29.30	6.10	3.49	2.00	
5	1.00	6.59	2.40	4.47	3.65	91.60	111.00	23.88	26.36	6.10	3.49	1.80	
6	1.00	6.76	3.82	4.31	2.90	75.46	123.64	22.95	23.88	6.10	3.16	1.80	
7	1.00	5.61	4.31	4.31	2.70	91.07	117.26	23.26	21.40	5.94	3.16	1.90	
8	1.00	4.80	8.95	3.82	2.40	100.61	101.67	31.00	20.47	5.78	3.00	1.90	
9	1.00	4.14	9.79	3.49	2.10	108.80	94.78	40.99	19.85	5.61	3.00	1.80	
10	1.10	3.49	8.11	3.98	2.10	119.58	86.30	45.22	18.92	5.45	2.90	1.70	
11	1.10	3.16	8.95	4.80	2.40	133.24	88.95	83.75	18.30	5.45	2.90	1.70	
12	1.00	2.90	7.90	5.29	4.31	132.63	95.31	129.60	17.37	5.45	2.70	1.70	
13	0.80	2.60	8.11	5.61	5.12	131.41	100.08	138.73	16.75	5.45	2.60	1.60	
14	0.80	2.70	8.11	5.61	3.49	114.36	98.49	119.58	16.13	5.45	2.50	1.40	
15	0.90	2.60	13.85	5.61	2.40	87.36	80.24	92.66	16.13	5.45	2.40	1.40	
16	1.70	2.40	25.12	5.45	2.10	126.00	67.47	78.32	15.82	5.45	2.40	1.20	
17	1.60	2.70	32.11	4.80	1.90	202.50	63.85	70.76	14.12	5.29	2.40	1.20	
18	5.61	2.20	28.62	4.31	6.76	239.25	55.20	68.41	11.75	5.29	2.40	1.20	
19	3.82	1.80	20.47	4.14	14.66	229.50	52.40	67.94	10.25	5.12	2.40	1.20	
20	2.50	1.70	14.93	3.98	21.09	187.40	54.40	67.94	10.00	4.96	2.40	1.30	
21	1.20	1.50	12.25	3.65	24.19	169.58	56.80	64.30	10.00	4.80	2.50	1.30	
22	2.20	1.30	9.37	3.49	45.22	162.20	54.00	54.40	9.37	4.63	2.90	1.30	
23	2.20	1.00	8.32	3.65	126.00	153.61	49.60	50.00	8.53	4.63	2.90	1.30	
24	2.00	0.80	7.25	3.65	122.48	208.50	50.80	46.00	7.74	4.63	2.90	1.30	
25	2.20	0.70	6.76	3.49	97.43	234.75	51.60	46.80	7.25	4.63	2.90	1.30	
26	2.00	0.30	6.27	4.31	84.26	201.00	53.60	45.22	6.92	4.47	2.90	1.30	
27	1.70	0.30	5.78	5.45	130.20	151.72	52.00	38.77	6.76	4.47	2.90	1.20	
28	1.70	0.20	5.29	5.29	241.50	117.84	46.40	35.81	6.59	4.31	2.90	1.00	
29	1.70	0.30	4.80	5.45	241.50	117.84	43.27	34.70	6.43	4.31	2.90	0.90	
30	1.90	0.30	4.47	6.43	216.75	175.02	38.03	37.29	6.43	3.98		0.90	
31		0.10		7.41	172.30		34.33		6.27	3.82		0.80	
TOTAL	48.73	74.71	284.61	143.81	1604.85	4315.33	2499.59	1669.66	486.53	161.59	83.95	46.50	11419.86 CMSDAY
MEAN	1.62	2.41	9.49	4.64	51.77	143.84	80.63	55.66	15.69	5.21	2.89	1.50	31.20 CMS
MAX	5.61	6.76	32.11	7.41	241.50	239.25	173.66	138.73	34.70	6.27	3.65	2.60	241.50 CMS
MIN	0.80	0.10	1.30	3.49	1.90	75.46	34.33	22.95	6.27	3.82	2.40	0.80	0.10 CMS
RUNOFF	4.210	6.455	24.590	12.425	138.659	372.845	215.965	144.259	42.036	13.961	7.253	4.018	986.676 MCM

MOMENTARY PEAK 243.84 CMS, AT 135.73 M (MSL), AT 1.00 HOURS, ON AUG 29, 1987

RUNOFF YIELD 2.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WANG RIVER BASIN

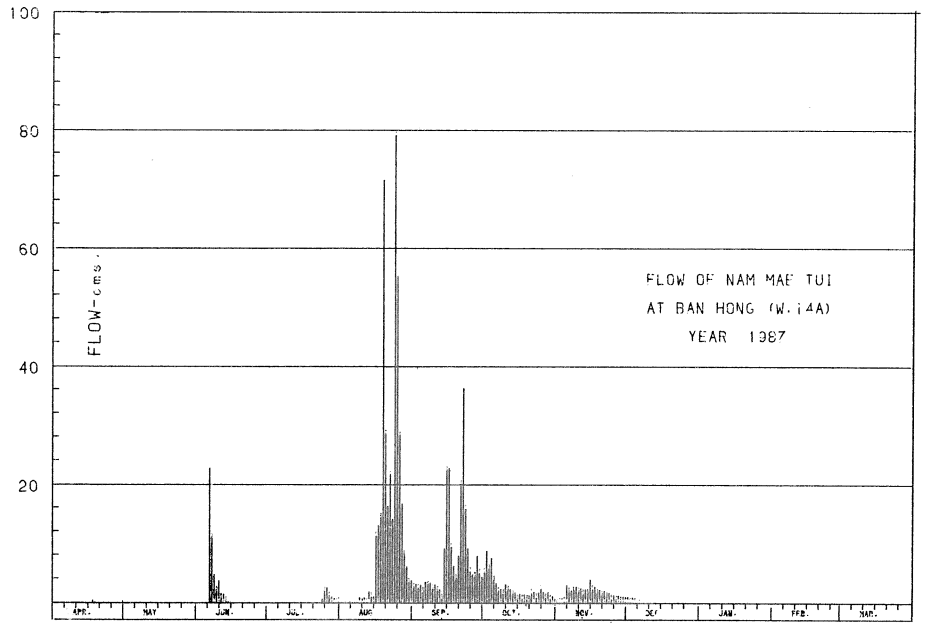
NAM MAE TUI AT BAN HONG, LAMPANG (W.14A)

LOCATION	LAT. 18°-26'-17" N., LONG. 99°-27'-58" E., ON RIGHT BANK AT BAN HONG, TAMBON BAN AIEM, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	649 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+257.670 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 7.00 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+261.325 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	257.76	257.88	257.72	257.83	258.03	258.57	258.83	258.09	258.18	257.90	257.86	257.90	
2	257.75	257.85	257.78	257.83	257.98	258.55	259.06	258.14	258.17	257.90	257.87	257.90	
3	257.75	257.84	257.79	257.82	258.01	258.54	258.88	258.13	258.16	257.90	257.87	257.90	
4	257.75	257.83	257.79	257.82	258.04	258.53	258.97	258.19	258.14	257.90	257.86	257.90	
5	257.75	257.82	257.77	257.82	258.02	258.48	258.71	258.53	258.09	257.92	257.88	257.90	
6	257.75	257.82	259.79	257.82	257.99	258.59	258.57	258.47	258.06	257.92	257.87	257.90	
7	257.75	257.81	259.25	257.84	257.97	258.61	258.48	258.39	258.03	257.91	257.87	257.90	
8	257.76	257.82	258.73	257.83	257.93	258.57	258.43	258.51	258.02	257.91	257.87	257.90	
9	257.78	257.82	258.50	257.83	258.15	258.54	258.43	258.49	258.01	257.90	257.87	257.88	
10	257.76	257.82	258.62	257.83	258.10	258.54	258.54	258.47	258.01	257.90	257.87	257.87	
11	257.76	257.82	258.31	257.83	258.14	258.50	258.52	258.45	258.02	257.89	257.87	257.87	
12	257.76	257.81	258.28	257.83	258.13	258.41	258.42	258.42	258.02	257.88	257.86	257.86	
13	257.76	257.80	258.20	257.83	258.35	258.29	258.39	258.42	258.00	257.89	257.87	257.86	
14	257.75	257.81	258.05	257.84	258.35	259.09	258.33	258.45	258.00	257.89	257.86	257.86	
15	257.78	257.80	258.05	257.83	258.19	259.80	258.28	258.64	257.99	257.88	257.86	257.86	
16	257.80	257.80	257.99	257.83	259.27	259.79	258.29	258.53	257.98	257.88	257.86	257.86	
17	258.00	257.78	257.95	257.83	259.33	259.15	258.27	258.49	257.97	257.89	257.86	257.86	
18	257.86	257.77	257.92	257.83	259.45	258.86	258.27	258.45	257.95	257.88	257.86	257.86	
19	257.79	257.76	257.91	257.84	261.12	258.73	258.26	258.41	257.94	257.87	257.86	257.87	
20	257.78	257.75	257.91	257.84	260.01	259.00	258.23	258.39	257.92	257.88	257.86	257.86	
21	257.78	257.74	257.95	257.85	259.51	259.71	258.44	258.38	257.92	257.89	257.89	257.86	
22	257.80	257.74	257.95	257.83	259.77	260.23	258.35	258.35	257.93	257.89	257.90	257.86	
23	257.79	257.75	258.01	257.83	259.39	259.52	258.32	258.32	257.92	257.89	257.90	257.86	
24	257.79	257.75	257.98	258.07	261.31	259.09	258.33	258.28	257.93	257.88	257.91	257.85	
25	257.79	257.75	257.95	258.49	260.73	258.84	258.54	258.25	257.94	257.89	257.91	257.85	
26	257.79	257.75	257.90	258.46	260.00	258.73	258.35	258.24	257.94	257.88	257.90	257.84	
27	257.78	257.76	257.88	258.35	259.53	258.77	258.31	258.23	257.94	257.88	257.90	257.84	
28	257.78	257.74	257.86	258.18	259.07	259.00	258.34	258.21	257.94	257.88	257.90	257.84	
29	257.81	257.74	257.83	258.13	258.85	258.82	258.28	258.19	257.92	257.88	257.89	257.85	
30	257.96	257.73	257.81	258.10	258.67	258.69	258.21	258.19	257.91	257.87		257.85	
31		257.72		258.15	258.62		258.11		257.90	257.86		257.85	
MEAN	257.79	257.79	258.11	257.94	258.90	258.88	258.44	258.36	258.00	257.89	257.88	257.87	
MAX	258.00	257.88	259.79	258.49	261.31	260.23	259.06	258.64	258.18	257.92	257.91	257.90	261.31
MIN	257.75	257.72	257.72	257.82	257.93	258.29	258.11	258.09	257.90	257.86	257.86	257.84	257.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 261.77 M (MSL), AT 13.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 257.67 M (MSL), RIVER BED 257.55 M (MSL)
LEFT BANK ELEVATION 262.37 M (MSL)
RIGHT BANK ELEVATION 262.12 M (MSL), DRAINAGE AREA 649 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.018	0.166	0.006	0.081	0.475	3.310	5.845	0.625	0.930	0.200	0.132	0.200	
2	0.015	0.115	0.024	0.081	0.360	3.150	8.740	0.790	0.895	0.200	0.149	0.200	
3	0.015	0.098	0.027	0.064	0.425	3.070	6.420	0.755	0.860	0.200	0.149	0.200	
4	0.015	0.081	0.027	0.064	0.500	2.990	7.525	0.965	0.790	0.200	0.132	0.200	
5	0.015	0.064	0.021	0.064	0.450	2.620	4.555	2.990	0.625	0.240	0.166	0.200	
6	0.015	0.064	22.750	0.064	0.380	3.470	3.310	2.555	0.550	0.240	0.149	0.200	
7	0.015	0.047	11.650	0.098	0.340	3.640	2.620	2.040	0.475	0.220	0.149	0.200	
8	0.018	0.064	4.765	0.081	0.260	3.310	2.295	2.830	0.450	0.220	0.149	0.200	
9	0.024	0.064	2.750	0.081	0.825	3.070	2.295	2.685	0.425	0.200	0.149	0.166	
10	0.018	0.064	3.730	0.081	0.650	3.070	3.070	2.555	0.425	0.200	0.149	0.149	
11	0.018	0.064	1.560	0.081	0.790	2.750	2.910	2.425	0.450	0.183	0.149	0.149	
12	0.018	0.047	1.400	0.081	0.755	2.165	2.230	2.230	0.450	0.166	0.132	0.132	
13	0.018	0.030	1.000	0.081	1.800	1.450	2.040	2.230	0.400	0.183	0.149	0.132	
14	0.015	0.047	0.525	0.098	1.800	9.160	1.680	2.425	0.400	0.183	0.132	0.132	
15	0.024	0.030	0.525	0.081	0.965	23.001	1.400	3.910	0.380	0.166	0.132	0.132	
16	0.030	0.030	0.380	0.081	11.990	22.750	1.450	2.990	0.360	0.166	0.132	0.132	
17	0.400	0.024	0.300	0.081	13.040	10.050	1.350	2.685	0.340	0.183	0.132	0.132	
18	0.132	0.021	0.240	0.081	15.200	6.190	1.350	2.425	0.300	0.166	0.132	0.132	
19	0.027	0.018	0.220	0.098	71.541	4.765	1.300	2.165	0.280	0.149	0.132	0.149	
20	0.024	0.015	0.220	0.098	29.220	7.900	1.150	2.040	0.240	0.166	0.132	0.132	
21	0.024	0.012	0.300	0.115	16.310	20.750	2.360	1.980	0.240	0.183	0.183	0.132	
22	0.030	0.012	0.300	0.081	22.251	36.320	1.800	1.800	0.260	0.183	0.200	0.132	
23	0.027	0.015	0.425	0.081	14.120	16.520	1.620	1.620	0.240	0.183	0.200	0.132	
24	0.027	0.015	0.360	0.575	79.652	9.160	1.680	1.400	0.260	0.166	0.220	0.115	
25	0.027	0.015	0.300	2.685	55.230	5.960	3.070	1.250	0.280	0.183	0.220	0.115	
26	0.027	0.015	0.200	2.490	28.900	4.765	1.800	1.200	0.280	0.166	0.200	0.098	
27	0.024	0.018	0.166	1.800	16.730	5.185	1.560	1.150	0.280	0.166	0.200	0.098	
28	0.024	0.012	0.132	0.930	8.880	7.900	1.740	1.050	0.280	0.166	0.200	0.098	
29	0.047	0.012	0.081	0.755	6.075	5.730	1.400	0.965	0.240	0.166	0.183	0.115	
30	0.320	0.009	0.047	0.650	4.180	4.360	1.050	0.965	0.220	0.149		0.115	
31		0.006		0.825	3.730		0.685		0.200	0.132		0.115	
TOTAL	1.451	1.294	54.431	12.607	407.824	238.531	82.300	57.695	12.805	5.674	4.633	4.534	883.779 CMSDAY
MEAN	0.048	0.042	1.814	0.407	13.156	7.951	2.655	1.923	0.413	0.183	0.160	0.146	2.415 CMS
MAX	0.400	0.166	22.750	2.685	79.652	36.320	8.740	3.910	0.930	0.240	0.220	0.200	79.652 CMS
MIN	0.015	0.006	0.006	0.064	0.260	1.450	0.685	0.625	0.200	0.132	0.132	0.098	0.006 CMS
RUNOFF	0.125	0.112	4.703	1.089	35.236	20.609	7.111	4.985	1.106	0.490	0.400	0.392	76.359 MCM

MOMENTARY PEAK 101.06 CMS, AT 261.77 M (MSL), AT 13.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 3.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 155.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WANG RIVER BASIN

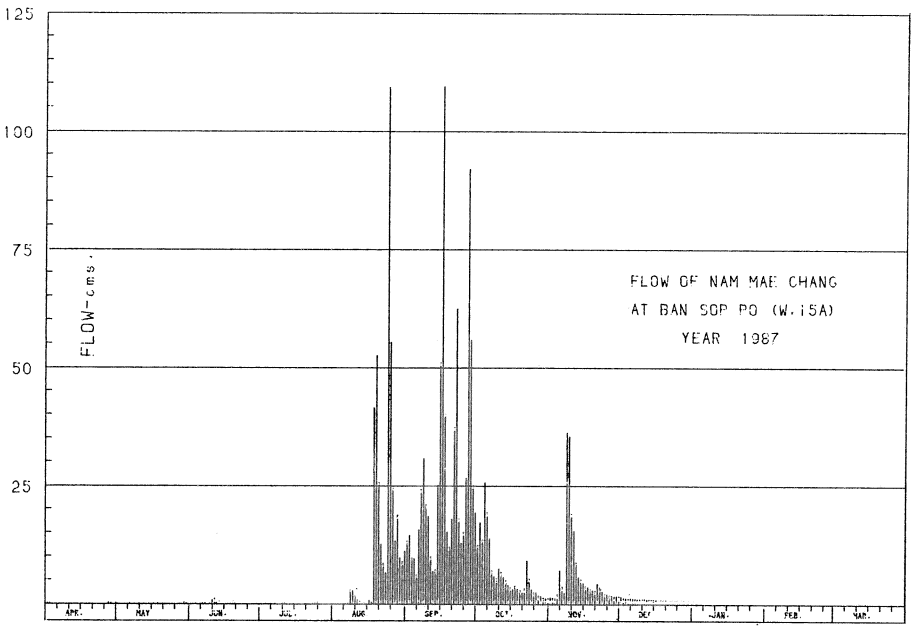
NAM MAE CHANG AT BAN SOP PO, LAMPANG (W.15A)

LOCATION	LAT. 18°-08'-08" N., LONG. 99°-34'-58" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS UPSTREAM FROM BAN SOP PO, AMPHOE MAE THA, LAMPANG.
DRAINAGE AREA	1,103 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+240.120 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE STATION OFFICE.
ELEVATION	+251.685 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1974, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1974, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 372 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	240.64	240.60	240.55	240.56	240.55	241.71	241.67	240.89	240.92	240.76	240.69	240.64	
2	240.63	240.57	240.58	240.56	240.55	241.76	241.87	240.89	240.89	240.76	240.69	240.64	
3	240.61	240.56	240.55	240.56	240.53	241.54	241.72	240.87	240.87	240.76	240.68	240.63	
4	240.58	240.55	240.54	240.56	240.54	241.53	242.17	241.01	240.86	240.78	240.68	240.63	
5	240.58	240.56	240.59	240.57	240.53	241.34	241.95	241.40	240.87	240.78	240.68	240.63	
6	240.56	240.61	240.64	240.57	240.51	241.81	241.73	241.16	240.87	240.77	240.68	240.63	
7	240.57	240.59	240.61	240.59	240.61	242.12	241.40	241.03	240.85	240.77	240.68	240.63	
8	240.57	240.59	240.59	240.58	241.10	242.33	241.32	242.50	240.84	240.77	240.67	240.62	
9	240.55	240.59	240.60	240.58	241.08	242.01	241.30	242.46	240.84	240.76	240.67	240.62	
10	240.54	240.58	240.80	240.61	240.95	241.92	241.42	241.94	240.85	240.77	240.66	240.62	
11	240.54	240.56	240.87	240.62	240.81	241.55	241.38	241.80	240.85	240.76	240.67	240.62	
12	240.53	240.57	240.79	240.62	240.74	241.39	241.31	241.49	240.83	240.76	240.67	240.62	
13	240.53	240.57	240.73	240.62	240.72	241.41	241.27	241.31	240.83	240.76	240.67	240.62	
14	240.51	240.57	240.69	240.61	240.67	242.15	241.19	241.28	240.83	240.75	240.66	240.63	
15	240.46	240.59	240.65	240.60	240.64	242.83	241.15	241.22	240.82	240.76	240.66	240.63	
16	240.47	240.59	240.65	240.59	240.94	243.79	241.11	241.17	240.81	240.75	240.66	240.62	
17	240.46	240.58	240.64	240.58	240.74	242.58	241.18	241.15	240.80	240.75	240.66	240.62	
18	240.38	240.58	240.68	240.57	242.63	241.79	241.12	241.12	240.81	240.74	240.66	240.62	
19	240.36	240.57	240.74	240.54	242.86	241.65	241.10	241.09	240.81	240.73	240.67	240.62	
20	240.36	240.55	240.72	240.58	242.17	241.90	241.04	241.09	240.81	240.72	240.67	240.62	
21	240.39	240.57	240.71	240.58	241.68	242.51	241.13	241.21	240.79	240.72	240.66	240.60	
22	240.38	240.54	240.69	240.59	241.48	243.06	241.51	241.15	240.79	240.72	240.66	240.59	
23	240.38	240.53	240.70	240.58	241.37	241.90	241.29	241.06	240.79	240.72	240.66	240.57	
24	240.33	240.52	240.68	240.62	243.79	241.69	241.11	241.02	240.79	240.72	240.65	240.59	
25	240.26	240.50	240.64	240.68	242.92	241.79	241.05	241.00	240.79	240.72	240.64	240.58	
26	240.20	240.48	240.64	240.65	242.13	242.20	241.04	240.98	240.79	240.71	240.64	240.60	
27	240.68	240.54	240.67	240.64	241.71	243.55	240.97	240.96	240.79	240.70	240.64	240.57	
28	240.63	240.58	240.59	240.62	241.93	242.93	240.95	240.95	240.79	240.69	240.64	240.58	
29	240.64	240.70	240.58	240.61	241.54	242.15	240.90	240.94	240.78	240.69	240.64	240.55	
30	240.62	240.60	240.56	240.59	241.50	241.95	240.87	240.94	240.77	240.70		240.55	
31		240.56		240.57	241.61		240.88		240.77	240.69		240.60	
MEAN	240.50	240.57	240.66	240.59	241.34	242.09	241.29	241.24	240.82	240.74	240.66	240.61	
MAX	240.68	240.70	240.87	240.68	243.79	243.79	242.17	242.50	240.92	240.78	240.69	240.64	243.79
MIN	240.20	240.48	240.54	240.54	240.51	241.34	240.87	240.87	240.77	240.69	240.64	240.55	240.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 244.41 M (MSL), AT 20.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 240.12 M (MSL), RIVER BED 240.11 M (MSL)
LEFT BANK ELEVATION 248.44 M (MSL)
RIGHT BANK ELEVATION 247.44 M (MSL), DRAINAGE AREA 1103 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.20	0.12	0.14	0.12	13.34	12.47	1.30	1.48	0.64	0.38	0.28	
2	0.26	0.15	0.17	0.14	0.12	14.54	17.25	1.30	1.30	0.64	0.38	0.28	
3	0.22	0.14	0.12	0.14	0.09	9.80	13.58	1.18	1.18	0.64	0.36	0.26	
4	0.17	0.12	0.11	0.14	0.11	9.60	25.70	2.09	1.13	0.72	0.36	0.26	
5	0.17	0.14	0.18	0.15	0.09	6.14	19.35	7.10	1.18	0.72	0.36	0.26	
6	0.14	0.22	0.28	0.15	0.06	15.75	13.82	3.67	1.18	0.68	0.36	0.26	
7	0.15	0.18	0.22	0.18	0.22	24.20	7.10	2.28	1.07	0.68	0.36	0.26	
8	0.15	0.18	0.18	0.17	2.95	30.82	5.82	37.00	1.02	0.68	0.34	0.24	
9	0.12	0.18	0.20	0.17	2.76	20.99	5.50	35.48	1.02	0.64	0.34	0.24	
10	0.11	0.17	0.80	0.22	1.68	18.54	7.48	19.08	1.07	0.68	0.32	0.24	
11	0.11	0.14	1.18	0.24	0.85	10.00	6.78	15.50	1.07	0.64	0.34	0.24	
12	0.09	0.15	0.76	0.24	0.56	6.94	5.66	8.81	0.97	0.64	0.34	0.24	
13	0.09	0.15	0.52	0.24	0.48	7.29	5.09	5.66	0.97	0.64	0.34	0.24	
14	0.06	0.15	0.38	0.22	0.34	25.10	4.03	5.23	0.97	0.60	0.32	0.26	
15	0.03	0.18	0.30	0.20	0.28	51.11	3.55	4.42	0.91	0.64	0.32	0.26	
16	0.04	0.18	0.30	0.18	1.61	109.48	3.07	3.79	0.85	0.60	0.32	0.24	
17	0.03	0.17	0.28	0.17	0.56	40.20	3.91	3.55	0.80	0.60	0.32	0.24	
18	0.00	0.17	0.36	0.15	42.26	15.26	3.19	3.19	0.85	0.56	0.32	0.24	
19	0.00	0.15	0.56	0.11	52.52	12.05	2.95	2.85	0.85	0.52	0.34	0.24	
20	0.00	0.12	0.48	0.17	25.70	18.00	2.38	2.85	0.85	0.48	0.34	0.24	
21	0.00	0.15	0.44	0.17	12.68	37.40	3.31	4.28	0.76	0.48	0.32	0.20	
22	0.00	0.11	0.38	0.18	8.62	62.48	9.20	3.55	0.76	0.48	0.32	0.18	
23	0.00	0.09	0.40	0.17	6.62	18.00	5.36	2.57	0.76	0.48	0.32	0.15	
24	0.00	0.08	0.36	0.24	109.48	12.89	3.07	2.19	0.76	0.48	0.30	0.18	
25	0.00	0.05	0.28	0.36	55.38	15.26	2.47	2.00	0.76	0.48	0.28	0.17	
26	0.00	0.04	0.28	0.30	24.50	26.60	2.38	1.87	0.76	0.44	0.28	0.20	
27	0.36	0.11	0.34	0.28	13.34	92.65	1.81	1.74	0.76	0.40	0.28	0.15	
28	0.26	0.17	0.18	0.24	18.81	55.87	1.68	1.68	0.76	0.38	0.28	0.17	
29	0.28	0.40	0.17	0.22	9.80	25.10	1.35	1.61	0.72	0.38	0.28	0.12	
30	0.24	0.20	0.14	0.18	9.00	19.35	1.18	1.61	0.68	0.40		0.12	
31		0.14		0.15	11.21		1.24		0.68	0.38		0.20	
TOTAL	3.36	4.78	10.47	6.01	412.80	824.75	201.73	189.43	28.88	17.42	9.52	6.86	1716.01 CMSDAY
MEAN	0.11	0.15	0.35	0.19	13.32	27.49	6.51	6.31	0.93	0.56	0.33	0.22	4.69 CMS
MAX	0.36	0.40	1.18	0.36	109.48	109.48	25.70	37.00	1.48	0.72	0.38	0.28	109.48 CMS
MIN	0.00	0.04	0.11	0.11	0.06	6.14	1.18	1.18	0.68	0.38	0.28	0.12	0.00 CMS
RUNOFF	0.290	0.413	0.905	0.519	35.666	71.258	17.429	16.367	2.495	1.505	0.823	0.593	148.263 MCM

MOMENTARY PEAK 161.08 CMS, AT 244.41 M (MSL), AT 20.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 4.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 146.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WANG RIVER BASIN

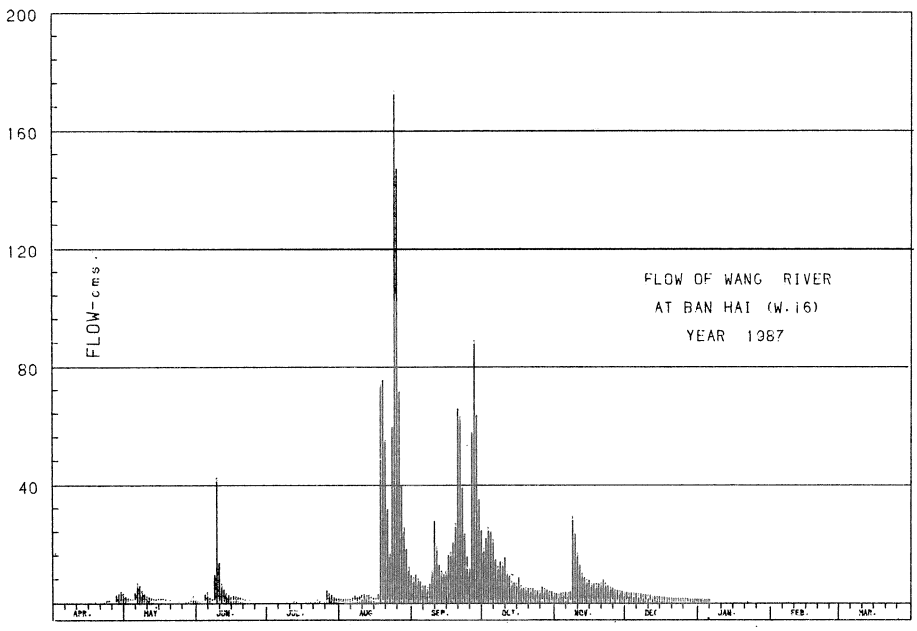
WANG RIVER AT BAN HAI, LAMPANG (W.16)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+7.676 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 303 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.51	0.30	0.26	0.40	1.08	1.52	0.64	0.70	0.40	0.23	0.18	
2	0.19	0.45	0.29	0.25	0.38	1.13	1.64	0.63	0.68	0.40	0.23	0.17	
3	0.18	0.41	0.32	0.24	0.39	1.05	1.77	0.66	0.68	0.39	0.25	0.16	
4	0.18	0.40	0.60	0.23	0.39	0.99	1.71	0.70	0.67	0.37	0.24	0.16	
5	0.17	0.68	0.71	0.24	0.38	0.89	1.63	0.70	0.65	0.38	0.24	0.16	
6	0.16	0.95	0.46	0.24	0.45	0.89	1.37	0.69	0.64	0.36	0.24	0.16	
7	0.16	0.89	0.41	0.24	0.55	0.86	1.27	0.72	0.63	0.33	0.23	0.15	
8	0.17	0.76	1.13	0.24	0.49	0.93	1.34	1.88	0.61	0.33	0.22	0.15	
9	0.17	0.62	2.24	0.24	0.52	1.21	1.32	1.69	0.59	0.33	0.21	0.16	
10	0.17	0.54	1.32	0.23	0.59	1.83	1.40	1.46	0.58	0.33	0.20	0.15	
11	0.16	0.50	0.94	0.23	0.61	1.54	1.19	1.29	0.57	0.31	0.21	0.15	
12	0.15	0.46	0.80	0.28	0.58	1.29	1.11	1.16	0.55	0.34	0.20	0.15	
13	0.15	0.42	0.67	0.24	0.58	1.20	1.00	1.08	0.53	0.34	0.19	0.14	
14	0.14	0.40	0.58	0.23	0.51	1.14	0.96	1.04	0.52	0.33	0.19	0.14	
15	0.14	0.43	0.51	0.22	0.45	1.20	0.96	1.02	0.52	0.33	0.19	0.12	
16	0.14	0.43	0.55	0.22	0.46	1.43	1.08	0.97	0.50	0.33	0.20	0.12	
17	0.15	0.43	0.53	0.21	0.61	1.47	0.90	0.94	0.49	0.35	0.20	0.11	
18	0.24	0.40	0.49	0.21	2.89	1.59	0.83	0.94	0.48	0.34	0.20	0.11	
19	0.19	0.38	0.48	0.21	2.91	1.81	0.87	0.94	0.46	0.35	0.20	0.11	
20	0.17	0.36	0.42	0.19	2.53	2.74	0.83	0.96	0.46	0.33	0.19	0.11	
21	0.19	0.35	0.39	0.32	1.95	2.69	0.83	1.03	0.43	0.31	0.19	0.11	
22	0.24	0.34	0.37	0.37	1.45	2.15	0.82	0.96	0.42	0.30	0.21	0.11	
23	0.34	0.33	0.35	0.28	2.62	1.69	0.76	0.89	0.44	0.29	0.21	0.11	
24	0.34	0.29	0.33	0.26	4.23	1.41	0.74	0.86	0.44	0.28	0.21	0.10	
25	0.31	0.28	0.31	0.43	3.93	1.23	0.78	0.83	0.44	0.28	0.21	0.10	
26	0.27	0.28	0.30	0.76	2.86	2.58	0.86	0.79	0.44	0.28	0.21	0.09	
27	0.58	0.27	0.28	0.67	2.17	3.13	0.83	0.77	0.42	0.27	0.20	0.10	
28	0.64	0.26	0.27	0.58	1.76	2.70	0.78	0.76	0.40	0.27	0.18	0.10	
29	0.73	0.33	0.26	0.49	1.51	2.07	0.74	0.73	0.40	0.26	0.17	0.11	
30	0.66	0.54	0.26	0.43	1.26	1.73	0.72	0.71	0.41	0.26		0.10	
31		0.36		0.42	1.12		0.68		0.40	0.25		0.11	
MEAN	0.26	0.45	0.56	0.31	1.34	1.59	1.07	0.95	0.52	0.32	0.21	0.13	
MAX	0.73	0.95	2.24	0.76	4.23	3.13	1.77	1.88	0.70	0.40	0.25	0.18	4.23
MIN	0.14	0.26	0.26	0.19	0.38	0.86	0.68	0.63	0.40	0.25	0.17	0.09	0.09

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.61 M (A.D), AT 2.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.07 M (A.D)
LEFT BANK ELEVATION 7.44 M (A.D)
RIGHT BANK ELEVATION 7.25 M (A.D), DRAINAGE AREA 1284 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	2.08	0.70	0.50	1.30	8.68	18.54	3.12	3.60	1.30	0.35	0.18	
2	0.19	1.65	0.65	0.45	1.18	9.57	21.90	3.04	3.44	1.30	0.35	0.16	
3	0.18	1.37	0.82	0.40	1.24	8.20	25.80	3.28	3.44	1.24	0.45	0.15	
4	0.18	1.30	2.80	0.35	1.24	7.26	24.00	3.60	3.36	1.12	0.40	0.15	
5	0.16	3.44	3.70	0.40	1.18	5.86	21.60	3.60	3.20	1.18	0.40	0.15	
6	0.15	6.70	1.72	0.40	1.65	5.86	14.71	3.52	3.12	1.06	0.40	0.15	
7	0.15	5.86	1.37	0.40	2.40	5.44	12.44	3.80	3.04	0.88	0.35	0.14	
8	0.16	4.20	9.57	0.40	1.93	6.42	14.02	29.34	2.88	0.88	0.30	0.14	
9	0.16	2.96	42.46	0.40	2.16	11.12	13.56	23.40	2.72	0.88	0.25	0.15	
10	0.16	2.32	13.56	0.35	2.72	27.69	15.40	16.96	2.64	0.88	0.20	0.14	
11	0.15	2.00	6.56	0.35	2.88	19.08	10.71	12.88	2.56	0.76	0.25	0.14	
12	0.14	1.72	4.60	0.60	2.64	12.88	9.19	10.14	2.40	0.94	0.20	0.14	
13	0.14	1.44	3.36	0.40	2.64	10.90	7.40	8.68	2.24	0.94	0.19	0.13	
14	0.13	1.30	2.64	0.35	2.08	9.76	6.84	8.04	2.16	0.88	0.19	0.13	
15	0.13	1.51	2.08	0.30	1.65	10.90	6.84	7.72	2.16	0.88	0.19	0.10	
16	0.13	1.51	2.40	0.30	1.72	16.18	8.68	6.98	2.00	0.88	0.20	0.10	
17	0.14	1.51	2.24	0.25	2.88	17.22	6.00	6.56	1.93	1.00	0.20	0.09	
18	0.40	1.30	1.93	0.25	74.22	20.43	5.02	6.56	1.86	0.94	0.20	0.09	
19	0.19	1.18	1.86	0.25	75.39	27.03	5.58	6.56	1.72	1.00	0.20	0.09	
20	0.16	1.06	1.44	0.19	55.21	65.70	5.02	6.84	1.72	0.88	0.19	0.09	
21	0.19	1.00	1.24	0.82	31.75	63.00	5.02	7.88	1.51	0.76	0.19	0.09	
22	0.40	0.94	1.12	1.12	16.70	38.95	4.88	6.84	1.44	0.70	0.25	0.09	
23	0.94	0.88	1.00	0.60	59.50	23.40	4.20	5.86	1.58	0.65	0.25	0.09	
24	0.94	0.65	0.88	0.50	173.43	15.66	4.00	5.44	1.58	0.60	0.25	0.08	
25	0.76	0.60	0.76	1.51	147.05	11.56	4.40	5.02	1.58	0.60	0.25	0.08	
26	0.55	0.60	0.70	4.20	72.48	57.56	5.44	4.50	1.58	0.60	0.25	0.07	
27	2.64	0.55	0.60	3.36	39.73	88.89	5.02	4.30	1.44	0.55	0.20	0.08	
28	3.12	0.50	0.55	2.64	25.50	63.50	4.40	4.20	1.30	0.55	0.18	0.08	
29	3.90	0.88	0.50	1.93	18.27	35.95	4.00	3.90	1.30	0.50	0.16	0.09	
30	3.28	2.32	0.50	1.51	12.22	24.60	3.80	3.70	1.37	0.50		0.08	
31		1.06		1.44	9.38		3.44		1.30	0.45		0.09	
TOTAL	20.11	56.39	114.31	26.92	844.32	729.25	301.85	226.26	68.17	26.28	7.44	3.53	2424.83 CMSDAY
MEAN	0.67	1.82	3.81	0.87	27.24	24.31	9.74	7.54	2.20	0.85	0.26	0.11	6.63 CMS
MAX	3.90	6.70	42.46	4.20	173.43	88.89	25.80	29.34	3.60	1.30	0.45	0.18	173.43 CMS
MIN	0.13	0.50	0.50	0.19	1.18	5.44	3.44	3.04	1.30	0.45	0.16	0.07	0.07 CMS
RUNOFF	1.738	4.872	9.876	2.326	72.949	63.007	26.080	19.549	5.890	2.271	0.643	0.305	209.505 MCM

MOMENTARY PEAK 208.45 CMS, AT 4.61 M (A.D), AT 2.00 HOURS, ON AUG 25, 1987

RUNOFF YIELD 5.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 162.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WANG RIVER BASIN

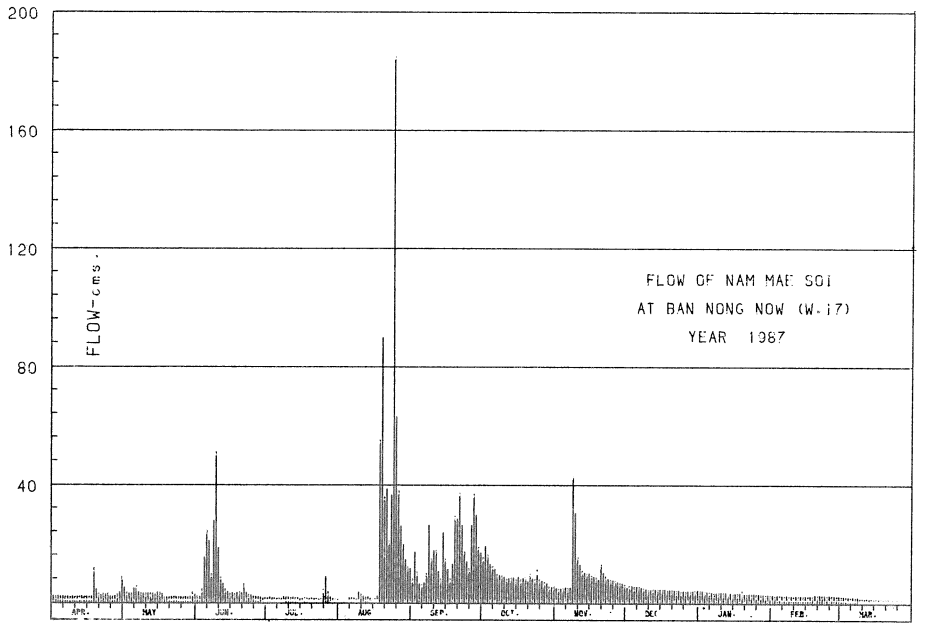
NAM MAE SOI AT BAN NONG NOW, LAMPANG (W.17)

LOCATION	LAT. 18°-43'-16" N., LONG 99°-34'-12" E., ON RIGHT BANK AT THE BRIDGE OF LAMPANG-WANG NUA ROAD, BAN NONG NOW, TAMBON CHAE HOM, AMPHOE CHAE HOM, LAMPANG.
DRAINAGE AREA	619 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+292.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 21 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+295.790 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	292.05	292.31	292.05	291.99	291.92	292.45	292.75	292.30	292.31	292.25	292.09	292.05	
2	292.05	292.19	292.03	292.01	291.93	292.82	292.89	292.29	292.34	292.23	292.08	292.04	
3	292.05	292.15	292.28	291.99	291.91	292.55	292.79	292.29	292.34	292.22	292.08	292.04	
4	292.04	292.16	292.75	291.97	291.90	292.37	292.66	292.30	292.33	292.21	292.09	292.02	
5	292.04	292.29	293.07	291.97	291.98	292.36	292.63	292.31	292.33	292.21	292.07	292.02	
6	292.03	292.33	292.95	291.97	292.00	292.39	292.59	292.31	292.33	292.20	292.07	292.02	
7	292.03	292.20	292.52	291.97	291.97	292.53	292.52	292.31	292.31	292.19	292.07	292.02	
8	292.03	292.17	293.18	292.03	291.95	293.13	292.51	293.61	292.30	292.18	292.07	292.01	
9	292.03	292.15	293.79	292.02	292.20	292.73	292.50	293.26	292.28	292.20	292.06	291.98	
10	292.03	292.17	292.87	292.01	292.13	292.84	292.48	292.76	292.26	292.20	292.06	291.97	
11	292.03	292.16	292.47	292.00	292.04	292.84	292.45	292.65	292.26	292.19	292.06	291.97	
12	292.04	292.16	292.37	292.00	292.02	292.56	292.46	292.57	292.29	292.19	292.06	291.97	
13	292.04	292.15	292.28	292.00	292.02	292.45	292.47	292.54	292.27	292.19	292.06	291.96	
14	292.04	292.13	292.21	291.99	291.98	293.05	292.47	292.53	292.28	292.17	292.06	291.96	
15	292.03	292.19	292.16	291.96	291.94	292.73	292.44	292.53	292.27	292.15	292.06	291.95	
16	292.04	292.20	292.17	291.96	291.96	292.59	292.48	292.50	292.28	292.15	292.06	291.95	
17	292.04	292.13	292.15	292.00	292.05	292.45	292.44	292.48	292.27	292.18	292.06	291.94	
18	292.60	292.01	292.18	291.98	293.86	292.66	292.46	292.47	292.26	292.17	292.06	291.94	
19	292.27	292.01	292.21	291.97	294.25	293.23	292.49	292.44	292.26	292.13	292.10	291.93	
20	292.16	292.02	292.17	291.98	293.42	293.20	292.41	292.66	292.26	292.13	292.10	291.94	
21	292.09	292.03	292.37	291.97	293.50	293.46	292.53	292.54	292.25	292.13	292.10	291.94	
22	292.15	292.04	292.19	291.96	292.95	293.13	292.45	292.49	292.25	292.14	292.09	291.93	
23	292.11	292.03	292.13	291.94	293.44	292.82	292.45	292.45	292.25	292.14	292.08	291.93	
24	292.16	292.02	292.09	291.95	294.79	292.69	292.51	292.44	292.24	292.14	292.08	291.93	
25	292.04	292.02	292.05	292.27	293.98	292.60	292.44	292.43	292.23	292.14	292.08	291.93	
26	292.04	292.02	292.03	292.48	293.48	293.13	292.42	292.42	292.23	292.13	292.08	291.93	
27	292.06	292.02	292.03	292.21	293.12	293.45	292.40	292.40	292.23	292.12	292.07	291.92	
28	292.12	292.02	292.01	292.01	292.91	293.24	292.38	292.39	292.23	292.11	292.06	291.92	
29	292.19	292.03	291.98	291.97	292.72	292.88	292.33	292.38	292.23	292.11	292.06	291.92	
30	292.48	292.20	291.99	291.94	292.62	292.81	292.32	292.36	292.25	292.10		291.92	
31		292.11		291.93	292.60		292.33		292.25	292.10		291.92	
MEAN	292.10	292.12	292.36	292.01	292.63	292.80	292.50	292.51	292.27	292.16	292.07	291.96	
MAX	292.60	292.33	293.79	292.48	294.79	293.46	292.89	293.61	292.34	292.25	292.10	292.05	294.79
MIN	292.03	292.01	291.98	291.93	291.90	292.36	292.32	292.29	292.23	292.10	292.06	291.92	291.90

ANNUAL MAX MOMENTARY GAGE HEIGHT 294.91 M (MSL), AT 15.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 292.00 M (MSL), RIVER BED 291.26 M (MSL)
LEFT BANK ELEVATION 295.20 M (MSL)
RIGHT BANK ELEVATION 295.56 M (MSL), DRAINAGE AREA 619 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.25	5.21	2.25	1.71	1.08	8.20	15.45	5.00	5.21	4.30	2.61	2.25	
2	2.25	3.51	2.07	1.89	1.17	17.26	19.22	4.86	5.84	4.02	2.52	2.16	
3	2.25	3.15	4.72	1.71	0.99	10.50	16.45	4.86	5.84	3.88	2.52	2.16	
4	2.16	3.24	15.45	1.53	0.90	6.47	13.20	5.00	5.63	3.74	2.61	1.98	
5	2.16	4.86	24.50	1.53	1.62	6.26	12.45	5.21	5.63	3.74	2.43	1.98	
6	2.07	5.63	20.95	1.53	1.80	6.89	11.46	5.21	5.63	3.60	2.43	1.98	
7	2.07	3.60	9.78	1.53	1.53	10.02	9.78	5.21	5.21	3.51	2.43	1.98	
8	2.07	3.33	27.88	2.07	1.35	26.33	9.54	42.94	5.00	3.42	2.43	1.89	
9	2.07	3.15	51.04	1.98	3.60	14.95	9.30	30.48	4.72	3.60	2.34	1.62	
10	2.07	3.33	18.66	1.89	2.97	17.82	8.86	15.70	4.44	3.60	2.34	1.53	
11	2.07	3.24	8.64	1.80	2.16	17.82	8.20	12.95	4.44	3.51	2.34	1.53	
12	2.16	3.24	6.47	1.80	1.98	10.74	8.42	10.98	4.86	3.51	2.34	1.53	
13	2.16	3.15	4.72	1.80	1.98	8.20	8.64	10.26	4.58	3.51	2.34	1.44	
14	2.16	2.97	3.74	1.71	1.62	23.90	8.64	10.02	4.72	3.33	2.34	1.44	
15	2.07	3.51	3.24	1.44	1.26	14.95	7.98	10.02	4.58	3.15	2.34	1.35	
16	2.16	3.60	3.33	1.44	1.44	11.46	8.86	9.30	4.72	3.15	2.34	1.35	
17	2.16	2.97	3.15	1.80	2.25	8.20	7.98	8.86	4.58	3.42	2.34	1.26	
18	11.70	1.89	3.42	1.62	55.10	13.20	8.42	8.64	4.44	3.33	2.34	1.26	
19	4.58	1.89	3.74	1.53	89.75	29.49	9.08	7.98	4.44	2.97	2.70	1.17	
20	3.24	1.98	3.33	1.62	35.88	28.50	7.32	13.20	4.44	2.97	2.70	1.26	
21	2.61	2.07	6.47	1.53	38.60	37.24	10.02	10.26	4.30	2.97	2.70	1.26	
22	3.15	2.16	3.51	1.44	20.95	26.33	8.20	9.08	4.30	3.06	2.61	1.17	
23	2.79	2.07	2.97	1.26	36.56	17.26	8.20	8.20	4.30	3.06	2.52	1.17	
24	3.24	1.98	2.61	1.35	184.85	13.95	9.54	7.98	4.16	3.06	2.52	1.17	
25	2.16	1.98	2.25	4.58	63.10	11.70	7.98	7.76	4.02	3.06	2.52	1.17	
26	2.16	1.98	2.07	8.86	37.92	26.33	7.54	7.54	4.02	2.97	2.52	1.17	
27	2.34	1.98	2.07	3.74	26.02	36.90	7.10	7.10	4.02	2.88	2.43	1.08	
28	2.88	1.98	1.89	1.89	19.79	29.82	6.68	6.89	4.02	2.79	2.34	1.08	
29	3.51	2.07	1.62	1.53	14.70	18.94	5.63	6.68	4.02	2.79	2.34	1.08	
30	8.86	3.60	1.71	1.26	12.20	16.98	5.42	6.26	4.30	2.70		1.08	
31		2.79		1.17	11.70		5.63		4.30	2.70		1.08	
TOTAL	89.58	92.11	248.25	62.54	676.82	526.61	291.19	304.43	144.71	102.30	71.28	45.63	2655.45 CMSDAY
MEAN	2.99	2.97	8.28	2.02	21.83	17.55	9.39	10.15	4.67	3.30	2.46	1.47	7.26 CMS
MAX	11.70	5.63	51.04	8.86	184.85	37.24	19.22	42.94	5.84	4.30	2.70	2.25	184.85 CMS
MIN	2.07	1.89	1.62	1.17	0.90	6.26	5.42	4.86	4.02	2.70	2.34	1.08	0.90 CMS
RUNOFF	7.740	7.958	21.449	5.403	58.477	45.499	25.159	26.303	12.503	8.839	6.159	3.942	229.431 MCM

MOMENTARY PEAK 212.35 CMS, AT 294.91 M (MSL), AT 15.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 11.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 343.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

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

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

DRAINAGE AREA — 7,624 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

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

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE STATION OFFICE.

ELEVATION — +153.908 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

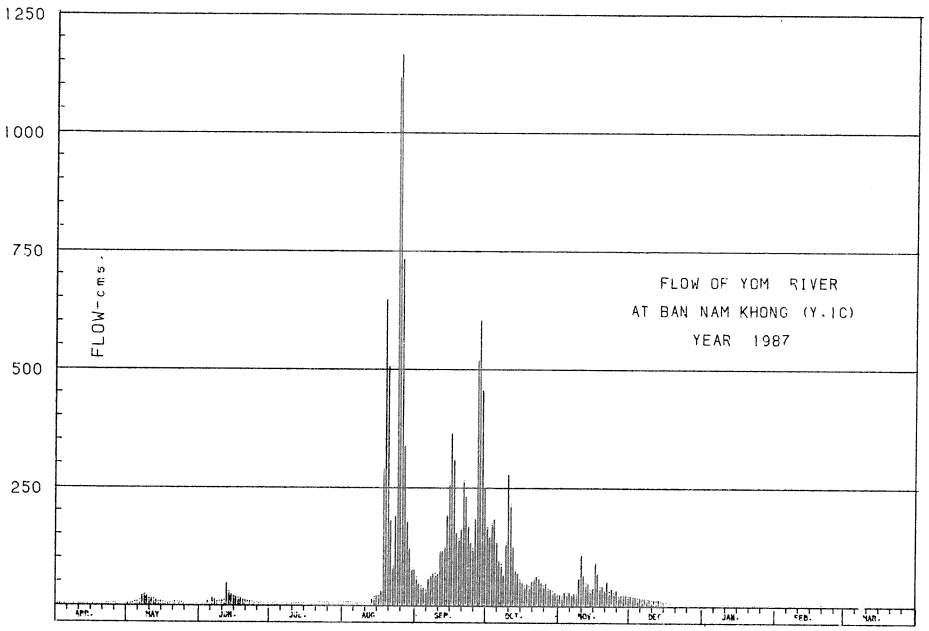
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 173 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	143.97	144.05	144.02	144.12	144.22	145.32	146.56	144.67	144.62	144.08	143.97	144.03	
2	143.96	144.04	144.07	144.13	144.23	145.09	146.33	144.66	144.59	144.08	143.96	144.03	
3	143.95	144.11	144.06	144.15	144.22	145.03	146.65	144.78	144.57	144.08	143.96	144.03	
4	143.95	144.22	144.28	144.15	144.21	144.95	146.71	144.78	144.55	144.08	143.96	144.03	
5	143.97	144.24	144.23	144.14	144.20	144.89	146.27	144.78	144.52	144.07	143.97	144.04	
6	143.97	144.37	144.49	144.12	144.15	145.24	145.75	144.78	144.49	144.08	143.97	144.04	
7	143.96	144.62	144.43	144.15	144.16	145.42	145.69	144.73	144.48	144.07	143.96	144.04	
8	143.96	144.69	144.27	144.15	144.17	145.42	145.37	144.73	144.48	144.07	143.96	144.05	
9	143.95	144.60	144.29	144.16	144.16	145.44	146.22	145.26	144.45	144.08	143.95	144.06	
10	143.95	144.49	144.31	144.14	144.16	145.40	147.56	145.97	144.42	144.08	143.96	144.05	
11	143.95	144.45	144.39	144.13	144.18	146.03	147.04	145.37	144.40	144.07	143.96	144.04	
12	143.95	144.47	145.10	144.14	144.15	146.00	146.09	145.13	144.39	144.07	143.96	144.04	
13	143.94	144.35	144.82	144.13	144.40	146.14	145.57	145.10	144.40	144.04	143.95	144.03	
14	143.94	144.25	144.67	144.12	144.60	146.79	145.43	144.91	144.32	144.03	143.95	144.03	
15	143.93	144.25	144.62	144.12	144.62	147.42	145.26	144.93	144.25	144.03	143.95	144.03	
16	143.92	144.24	144.55	144.10	144.64	148.23	145.13	145.75	144.26	144.03	143.95	144.03	
17	143.89	144.17	144.53	144.09	144.81	147.85	145.05	145.42	144.22	144.03	143.96	144.03	
18	143.90	144.04	144.48	144.09	147.67	146.42	145.09	145.02	144.14	144.03	143.96	144.02	
19	143.89	144.10	144.40	144.09	150.09	146.31	145.03	145.01	144.14	144.02	144.00	144.02	
20	143.87	144.20	144.35	144.10	149.23	146.50	145.17	144.97	144.13	144.02	144.00	144.01	
21	143.87	144.25	144.29	144.18	146.69	147.47	145.29	145.16	144.11	143.97	143.99	144.00	
22	144.02	144.24	144.26	144.23	145.63	147.17	145.34	144.84	144.11	143.97	143.99	144.01	
23	144.05	144.21	144.24	144.22	146.78	146.61	145.35	144.91	144.10	143.96	144.00	144.00	
24	144.12	144.18	144.19	144.20	152.10	146.19	145.13	144.79	144.09	143.95	143.99	144.00	
25	144.12	144.09	144.17	144.19	152.24	146.08	145.06	144.86	144.09	143.95	144.01	143.98	
26	144.07	144.06	144.16	144.19	150.61	146.72	145.11	144.62	144.09	143.95	144.01	143.97	
27	144.02	144.04	144.14	144.18	148.03	149.31	144.95	144.67	144.10	143.95	144.01	143.96	
28	143.98	144.05	144.12	144.15	146.72	149.82	144.90	144.69	144.09	143.95	144.01	143.97	
29	143.97	144.05	144.11	144.16	146.05	148.89	144.84	144.67	144.10	143.96	144.02	143.98	
30	143.97	144.01	144.11	144.19	145.60	147.33	144.77	144.64	144.09	143.97		143.95	
31		143.97		144.21	145.53		144.68		144.08	143.98		143.94	
MEAN	143.97	144.23	144.34	144.15	146.01	146.52	145.59	144.95	144.29	144.02	143.98	144.01	
MAX	144.12	144.69	145.10	144.23	152.24	149.82	147.56	145.97	144.62	144.08	144.02	144.06	152.24
MIN	143.87	143.97	144.02	144.09	144.15	144.89	144.68	144.62	144.08	143.95	143.95	143.94	143.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 152.77 M (MSL), AT 22.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 143.50 M (MSL), RIVER BED 143.38 M (MSL)
LEFT BANK ELEVATION 152.86 M (MSL)
RIGHT BANK ELEVATION 154.08 M (MSL), DRAINAGE AREA 7624 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.05	4.25	3.80	5.40	7.50	60.80	167.00	22.50	20.00	4.70	3.05	3.95	
2	2.90	4.10	4.55	5.60	7.75	45.85	144.70	22.00	18.65	4.70	2.90	3.95	
3	2.75	5.20	4.40	6.00	7.50	41.95	176.00	28.00	17.95	4.70	2.90	3.95	
4	2.75	7.50	9.00	6.00	7.25	37.25	182.00	28.00	17.25	4.70	2.90	3.95	
5	3.05	8.00	7.75	5.80	7.00	33.95	139.30	28.00	16.20	4.55	3.05	4.10	
6	3.05	11.25	15.15	5.40	6.00	55.60	93.75	28.00	15.15	4.70	3.05	4.10	
7	2.90	20.00	13.05	6.00	6.20	67.50	88.65	25.50	14.80	4.55	2.90	4.10	
8	2.90	23.50	8.75	6.00	6.40	67.50	64.05	25.50	14.80	4.55	2.90	4.25	
9	2.75	19.00	9.25	6.20	6.20	69.00	134.80	56.90	13.75	4.70	2.75	4.40	
10	2.75	15.15	9.75	5.80	6.20	66.00	277.20	112.45	12.70	4.70	2.90	4.25	
11	2.75	13.75	11.75	5.60	6.60	117.70	216.40	64.05	12.00	4.55	2.90	4.10	
12	2.75	14.45	46.50	5.80	6.00	115.00	123.10	48.45	11.75	4.55	2.90	4.10	
13	2.60	10.75	30.10	5.60	12.00	127.60	78.75	46.50	12.00	4.10	2.75	3.95	
14	2.60	8.25	22.50	5.40	19.00	190.00	68.25	35.05	10.00	3.95	2.75	3.95	
15	2.45	8.25	20.00	5.40	20.00	260.40	56.90	36.15	8.25	3.95	2.75	3.95	
16	2.30	8.00	17.25	5.00	21.00	364.20	48.45	93.75	8.50	3.95	2.75	3.95	
17	1.88	6.40	16.55	4.85	29.55	313.50	43.25	67.50	7.50	3.95	2.90	3.95	
18	2.00	4.10	14.80	4.85	290.75	153.00	45.85	41.30	5.80	3.95	2.90	3.80	
19	1.88	5.00	12.00	4.85	646.40	142.90	41.95	40.65	5.80	3.80	3.50	3.80	
20	1.64	7.00	10.75	5.00	511.50	161.00	51.05	38.35	5.60	3.80	3.50	3.65	
21	1.64	8.25	9.25	6.60	180.00	266.40	58.85	50.40	5.20	3.05	3.35	3.50	
22	3.80	8.00	8.50	7.75	83.55	230.70	62.10	31.20	5.20	3.05	3.35	3.65	
23	4.25	7.25	8.00	7.50	189.00	172.00	62.75	35.05	5.00	2.90	3.50	3.50	
24	5.40	6.60	6.80	7.00	1120.00	132.10	48.45	28.50	4.85	2.75	3.35	3.50	
25	5.40	4.85	6.40	6.80	1164.80	122.20	43.90	32.30	4.85	2.75	3.65	3.20	
26	4.55	4.40	6.20	6.80	738.10	183.00	47.15	20.00	4.85	2.75	3.65	3.05	
27	3.80	4.10	5.80	6.60	337.05	523.50	37.25	22.50	5.00	2.75	3.65	2.90	
28	3.20	4.25	5.40	6.00	183.00	603.20	34.50	23.50	4.85	2.75	3.65	3.05	
29	3.05	4.25	5.20	6.20	119.50	460.50	31.20	22.50	5.00	2.90	3.80	3.20	
30	3.05	3.65	5.20	6.80	81.00	249.60	27.50	21.00	4.85	3.05		2.75	
31		3.05		7.25	75.75		23.00		4.70	3.20		2.60	
TOTAL	89.84	262.55	354.40	185.85	5902.55	5433.90	2718.05	1175.55	302.80	119.00	90.85	115.10	16750.44 CMSDAY
MEAN	2.99	8.47	11.81	6.00	190.40	181.13	87.68	39.19	9.77	3.84	3.13	3.71	45.77 CMS
MAX	5.40	23.50	46.50	7.75	1164.80	603.20	277.20	112.45	20.00	4.70	3.80	4.40	1164.80 CMS
MIN	1.64	3.05	3.80	4.85	6.00	33.95	23.00	20.00	4.70	2.75	2.75	2.60	1.64 CMS
RUNOFF	7.762	22.684	30.620	16.057	509.980	469.489	234.840	101.568	26.162	10.282	7.849	9.945	1447.238 MCM

MOMENTARY PEAK 1341.20 CMS, AT 152.77 M (MSL), AT 22.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 6.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 175.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

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

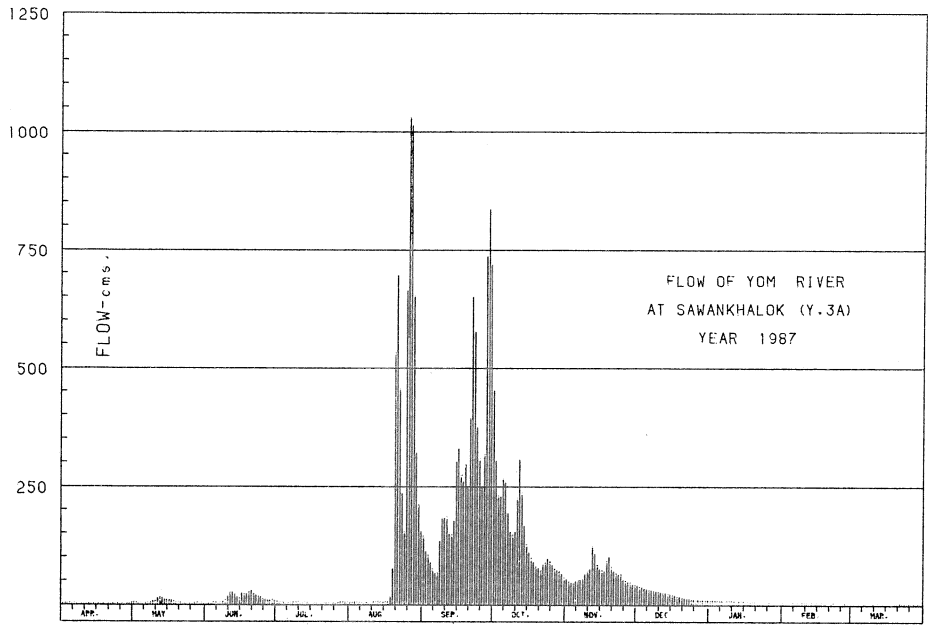
LOCATION — LAT. 17°18'29" N., LONG. 99°49'43" E., ON RIGHT BANK ABOUT 100 METERS DOWNSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE SAWANKHALOK, SUKHOTHAI.

DRAINAGE AREA	13,583 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+51.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF AUTOMATIC GAGE BUILDING.
ELEVATION	+60.559 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 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.25	51.37	51.28	51.45	51.39	53.87	56.90	52.58	52.32	51.53	51.35	51.32	
2	51.25	51.35	51.30	51.41	51.35	53.44	55.58	52.50	52.28	51.53	51.35	51.32	
3	51.26	51.33	51.36	51.39	51.37	53.35	54.85	52.44	52.25	51.51	51.35	51.31	
4	51.28	51.31	51.38	51.37	51.39	53.12	54.82	52.42	52.21	51.49	51.35	51.31	
5	51.28	51.29	51.34	51.35	51.36	52.94	55.24	52.50	52.17	51.48	51.35	51.30	
6	51.28	51.29	51.32	51.34	51.34	52.78	55.13	52.56	52.13	51.48	51.35	51.29	
7	51.28	51.32	51.35	51.35	51.34	52.80	54.50	52.55	52.11	51.48	51.35	51.28	
8	51.26	51.34	51.38	51.39	51.33	53.72	53.97	52.58	52.09	51.48	51.35	51.27	
9	51.25	51.45	51.53	51.39	51.32	54.36	53.90	52.75	52.06	51.48	51.35	51.27	
10	51.23	51.48	51.79	51.41	51.36	54.32	53.97	52.89	52.04	51.48	51.35	51.27	
11	51.21	51.67	52.00	51.43	51.39	54.36	54.80	52.92	52.01	51.47	51.35	51.27	
12	51.21	51.76	52.02	51.41	51.42	53.91	55.60	53.62	51.99	51.46	51.35	51.27	
13	51.21	51.69	51.91	51.38	51.44	53.91	54.92	53.38	51.97	51.45	51.35	51.27	
14	51.21	51.60	51.73	51.35	51.41	54.25	54.13	53.06	51.95	51.45	51.35	51.25	
15	51.21	51.56	51.70	51.33	51.42	55.61	53.65	52.92	51.92	51.45	51.35	51.25	
16	51.21	51.57	51.96	51.32	51.40	55.81	53.41	52.89	51.89	51.45	51.35	51.25	
17	51.20	51.52	51.93	51.31	51.40	55.29	53.26	52.85	51.86	51.44	51.35	51.25	
18	51.19	51.46	51.92	51.30	51.94	55.15	53.14	53.18	51.81	51.43	51.33	51.25	
19	51.19	51.42	52.04	51.31	52.93	55.51	53.01	53.29	51.76	51.41	51.33	51.25	
20	51.19	51.38	52.09	51.31	57.50	55.05	52.95	53.00	51.73	51.41	51.33	51.24	
21	51.20	51.38	51.95	51.30	58.68	56.42	52.88	52.85	51.68	51.41	51.33	51.23	
22	51.22	51.36	51.85	51.30	56.91	58.36	53.06	52.79	51.65	51.40	51.33	51.22	
23	51.23	51.34	51.83	51.30	54.89	57.87	53.13	52.74	51.64	51.39	51.33	51.21	
24	51.23	51.32	51.78	51.30	53.99	56.21	53.24	52.76	51.61	51.39	51.33	51.21	
25	51.22	51.30	51.67	51.29	58.45	55.63	53.16	52.55	51.58	51.38	51.33	51.21	
26	51.22	51.30	51.59	51.29	60.92	55.02	53.05	52.53	51.57	51.37	51.33	51.21	
27	51.22	51.33	51.53	51.32	60.78	55.71	52.94	52.47	51.55	51.36	51.33	51.21	
28	51.22	51.32	51.51	51.39	58.39	58.96	52.89	52.46	51.55	51.35	51.32	51.21	
29	51.25	51.31	51.60	51.38	55.73	59.67	52.85	52.36	51.55	51.35	51.32	51.21	
30	51.34	51.31	51.51	51.38	54.65	58.84	52.76	52.36	51.54	51.34		51.21	
31		51.29		51.39	53.98		52.64		51.53	51.34		51.20	
MEAN	51.23	51.41	51.67	51.35	53.65	55.21	53.88	52.76	51.87	51.43	51.34	51.25	
MAX	51.34	51.76	52.09	51.45	60.92	59.67	56.90	53.62	52.32	51.53	51.35	51.32	60.92
MIN	51.19	51.29	51.28	51.29	51.32	52.78	52.64	52.36	51.53	51.34	51.32	51.20	51.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 60.95 M (MSL), AT 13.00 HOURS, ON AUG 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 51.00 M (MSL), RIVER BED 50.93 M (MSL)
LEFT BANK ELEVATION 61.22 M (MSL)
RIGHT BANK ELEVATION 60.82 M (MSL), DRAINAGE AREA 13583 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.00	5.40	3.60	7.25	5.80	145.60	457.00	53.90	40.00	9.25	5.00	4.40	
2	3.00	5.00	4.00	6.25	5.00	112.00	303.90	49.50	38.00	9.25	5.00	4.40	
3	3.20	4.60	5.20	5.80	5.40	105.25	230.75	46.20	36.50	8.75	5.00	4.20	
4	3.60	4.20	5.60	5.40	5.80	88.40	227.90	45.10	34.50	8.25	5.00	4.20	
5	3.60	3.80	4.80	5.00	5.20	76.10	269.00	49.50	32.65	8.00	5.00	4.00	
6	3.60	3.80	4.40	4.80	4.80	65.80	258.00	52.80	30.85	8.00	5.00	3.80	
7	3.60	4.40	5.00	5.00	4.80	67.00	198.50	52.25	29.95	8.00	5.00	3.60	
8	3.20	4.80	5.60	5.80	4.60	133.60	153.60	53.90	29.05	8.00	5.00	3.40	
9	3.00	7.25	9.25	5.80	4.40	186.10	148.00	64.00	27.70	8.00	5.00	3.40	
10	2.60	8.00	16.70	6.25	5.20	182.70	153.60	72.85	26.80	8.00	5.00	3.40	
11	2.20	13.10	25.00	6.75	5.80	186.10	226.00	74.80	25.45	7.75	5.00	3.40	
12	2.20	15.80	25.90	6.25	6.50	148.80	306.00	125.60	24.60	7.50	5.00	3.40	
13	2.20	13.70	21.40	5.60	7.00	148.80	237.40	107.50	23.80	7.25	5.00	3.40	
14	2.20	11.00	14.90	5.00	6.25	176.75	166.55	84.20	23.00	7.25	5.00	3.00	
15	2.20	10.00	14.00	4.60	6.50	307.10	128.00	74.80	21.80	7.25	5.00	3.00	
16	2.20	10.25	23.40	4.40	6.00	329.10	109.75	72.85	20.60	7.25	5.00	3.00	
17	2.00	9.00	22.20	4.20	6.00	274.00	98.50	70.25	19.40	7.00	5.00	3.00	
18	1.80	7.50	21.80	4.00	22.60	260.00	89.80	92.60	17.40	6.75	4.60	3.00	
19	1.80	6.50	26.80	4.20	75.45	296.55	80.70	100.75	15.80	6.25	4.60	3.00	
20	1.80	5.60	29.05	4.20	533.00	250.00	76.75	80.00	14.90	6.25	4.60	2.80	
21	2.00	5.60	23.00	4.00	695.36	398.40	72.20	70.25	13.40	6.25	4.60	2.60	
22	2.40	5.20	19.00	4.00	458.25	650.40	84.20	66.40	12.50	6.00	4.60	2.40	
23	2.60	4.80	18.20	4.00	234.55	581.80	89.10	63.40	12.20	5.80	4.60	2.20	
24	2.60	4.40	16.40	4.00	155.20	374.15	97.00	64.60	11.30	5.80	4.60	2.20	
25	2.40	4.00	13.10	3.80	663.00	309.30	91.20	52.25	10.50	5.60	4.60	2.20	
26	2.40	4.00	10.75	3.80	1035.20	247.00	83.50	51.15	10.25	5.40	4.60	2.20	
27	2.40	4.60	9.25	4.40	1012.80	318.10	76.10	47.85	9.75	5.20	4.60	2.20	
28	2.40	4.40	8.75	5.80	654.60	735.70	72.85	47.30	9.75	5.00	4.40	2.20	
29	3.00	4.20	11.00	5.60	320.30	840.50	70.25	42.00	9.75	5.00	4.40	2.20	
30	4.80	4.20	8.75	5.60	212.00	718.30	64.60	42.00	9.50	4.80		2.20	
31		3.80		5.80	154.40		57.40		9.25	4.80		2.00	
TOTAL	80.00	202.90	426.80	157.35	6321.76	8713.40	4778.10	1970.55	650.90	213.65	139.80	94.40	23749.62 CMSDAY
MEAN	2.67	6.55	14.23	5.08	203.93	290.45	154.13	65.69	21.00	6.89	4.82	3.05	64.89 CMS
MAX	4.80	15.80	29.05	7.25	1035.20	840.50	457.00	125.60	40.00	9.25	5.00	4.40	1035.20 CMS
MIN	1.80	3.80	3.60	3.80	4.40	65.80	57.40	42.00	9.25	4.80	4.40	2.00	1.80 CMS
RUNOFF	6.912	17.531	36.876	13.595	546.200	752.838	412.828	170.256	56.238	18.459	12.079	8.156	2051.967 MCM

MOMENTARY PEAK 1040.00 CMS, AT 60.95 M (MSL), AT 13.00 HOURS, ON AUG 26, 1987
RUNOFF YIELD 4.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 76.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

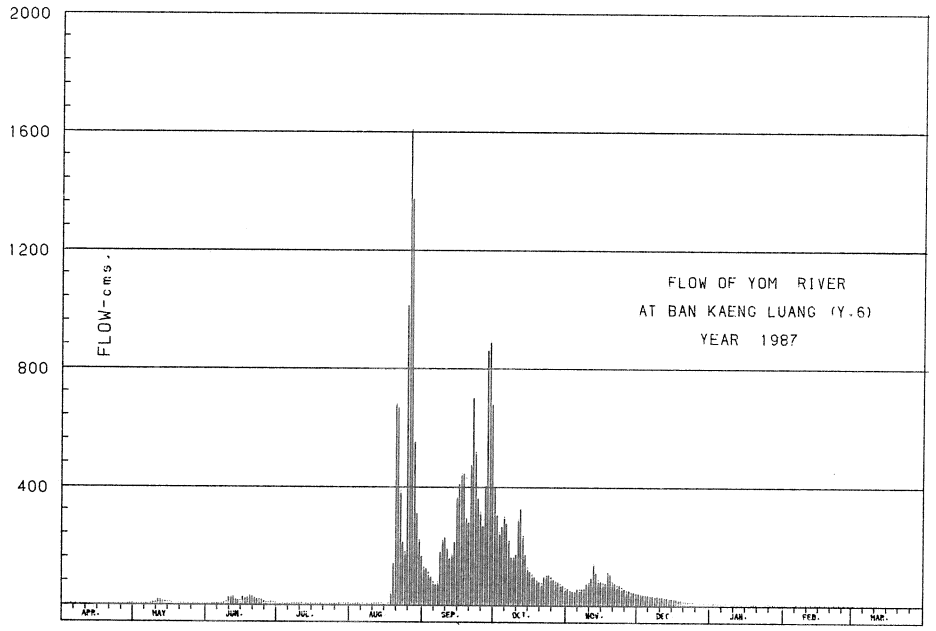
YOM RIVER AT BAN KAENG LUANG, SUKHOTHAI (Y.6)

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	STAFF GAGE.
ZERO GAGE AT BOTTOM	+59.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+68.928 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	1952 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1952 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1952 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW DIVERTED FOR IRRIGATION ABOUT 24,000 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 90 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	59.44	59.61	59.46	59.70	59.63	61.50	63.18	60.75	60.50	59.78	59.55	59.44	
2	59.46	59.57	59.47	59.68	59.59	61.45	62.66	60.66	60.47	59.78	59.55	59.43	
3	59.47	59.55	59.49	59.65	59.65	61.35	62.34	60.62	60.44	59.76	59.55	59.43	
4	59.49	59.52	59.56	59.62	59.67	61.19	62.44	60.62	60.42	59.74	59.55	59.43	
5	59.46	59.50	59.56	59.59	59.61	61.04	62.64	60.73	60.40	59.73	59.55	59.41	
6	59.44	59.55	59.56	59.57	59.61	60.92	62.50	60.74	60.38	59.74	59.54	59.40	
7	59.42	59.53	59.61	59.63	59.61	61.04	62.16	60.73	60.35	59.73	59.53	59.40	
8	59.41	59.59	59.72	59.66	59.58	61.90	61.76	60.77	60.32	59.73	59.52	59.39	
9	59.41	59.76	59.85	59.68	59.55	62.17	61.77	60.94	60.30	59.72	59.52	59.41	
10	59.39	59.78	60.21	59.71	59.61	62.22	61.84	61.02	60.28	59.72	59.51	59.40	
11	59.39	60.05	60.26	59.70	59.69	61.97	62.60	61.16	60.27	59.72	59.51	59.41	
12	59.39	60.01	60.27	59.66	59.68	61.73	62.78	61.60	60.24	59.71	59.50	59.40	
13	59.38	59.91	60.07	59.63	59.71	61.84	62.27	61.32	60.21	59.70	59.50	59.38	
14	59.37	59.85	59.96	59.59	59.73	62.12	61.83	61.11	60.18	59.70	59.49	59.37	
15	59.37	59.83	60.02	59.58	59.66	62.98	61.50	61.04	60.16	59.69	59.49	59.36	
16	59.37	59.84	60.23	59.57	59.65	63.18	61.35	61.00	60.15	59.69	59.48	59.36	
17	59.37	59.76	60.16	59.55	59.72	63.35	61.28	60.97	60.11	59.69	59.47	59.38	
18	59.40	59.71	60.20	59.55	60.61	63.34	61.19	61.34	60.06	59.66	59.47	59.36	
19	59.41	59.66	60.36	59.57	61.60	62.60	61.08	61.27	60.02	59.64	59.49	59.36	
20	59.45	59.64	60.28	59.55	64.29	62.52	61.03	61.04	59.97	59.62	59.49	59.36	
21	59.44	59.63	60.20	59.53	64.23	63.50	60.99	60.97	59.93	59.62	59.48	59.35	
22	59.43	59.61	60.07	59.52	63.08	64.35	61.19	60.91	59.90	59.61	59.47	59.34	
23	59.45	59.56	60.12	59.56	62.12	63.66	61.25	60.90	59.89	59.60	59.48	59.34	
24	59.44	59.52	60.02	59.55	61.91	62.95	61.26	60.83	59.87	59.59	59.47	59.33	
25	59.43	59.51	59.91	59.55	65.34	62.73	61.19	60.73	59.84	59.58	59.48	59.32	
26	59.43	59.59	59.84	59.55	66.86	62.45	61.10	60.67	59.83	59.58	59.48	59.32	
27	59.46	59.55	59.78	59.66	66.32	63.16	61.05	60.66	59.81	59.58	59.47	59.31	
28	59.46	59.56	59.86	59.67	63.82	64.87	61.01	60.61	59.80	59.57	59.45	59.30	
29	59.58	59.55	59.85	59.65	62.70	64.98	60.97	60.57	59.80	59.57	59.45	59.31	
30	59.62	59.54	59.77	59.65	62.18	64.27	60.88	60.54	59.80	59.56		59.30	
31		59.53		59.67	61.79		60.80		59.79	59.55		59.31	
MEAN	59.43	59.66	59.92	59.61	61.32	62.58	61.67	60.89	60.11	59.67	59.50	59.37	
MAX	59.62	60.05	60.36	59.71	66.86	64.98	63.18	61.60	60.50	59.78	59.55	59.44	66.86
MIN	59.37	59.50	59.46	59.52	59.55	60.92	60.80	60.54	59.79	59.55	59.45	59.30	59.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 67.02 M (MSL), AT 23.00 HOURS, ON AUG 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 59.00 M (MSL), RIVER BED 57.64 M (MSL)
LEFT BANK ELEVATION 69.00 M (MSL)
RIGHT BANK ELEVATION 70.61 M (MSL), DRAINAGE AREA 12658 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.1	4.8	2.4	6.6	5.2	128.5	407.8	55.8	38.0	8.3	3.8	2.1	
2	2.4	4.1	2.6	6.2	4.4	122.8	302.8	49.0	36.2	8.3	3.8	1.9	
3	2.6	3.8	2.9	5.6	5.6	111.7	247.3	46.0	34.4	7.9	3.8	1.9	
4	2.9	3.3	4.0	5.0	6.0	95.0	264.3	46.0	33.2	7.4	3.8	1.9	
5	2.4	3.0	4.0	4.4	4.8	80.0	299.2	54.3	32.0	7.2	3.8	1.6	
6	2.1	3.8	4.0	4.1	4.8	69.2	274.5	55.0	31.1	7.4	3.6	1.5	
7	1.8	3.5	4.8	5.2	4.8	80.0	217.8	54.3	29.7	7.2	3.5	1.5	
8	1.6	4.4	7.0	5.8	4.3	179.0	160.4	57.3	28.4	7.2	3.3	1.4	
9	1.6	7.9	10.0	6.2	3.8	219.4	161.7	70.9	27.5	7.0	3.3	1.6	
10	1.4	8.3	23.4	6.8	4.8	227.3	170.9	78.0	26.6	7.0	3.2	1.5	
11	1.4	16.6	25.7	6.6	6.4	189.2	292.0	92.0	26.2	7.0	3.2	1.6	
12	1.4	15.1	26.2	5.8	6.2	156.6	324.4	140.0	24.8	6.8	3.0	1.5	
13	1.3	11.7	17.4	5.2	6.8	170.9	235.6	108.6	23.4	6.6	3.0	1.3	
14	1.2	10.0	13.4	4.4	7.2	211.6	169.6	87.0	22.1	6.6	2.9	1.2	
15	1.2	9.5	15.5	4.3	5.8	365.8	128.5	80.0	21.2	6.4	2.9	1.1	
16	1.2	9.8	24.3	4.1	5.6	407.8	111.7	76.0	20.8	6.4	2.7	1.1	
17	1.2	7.9	21.2	3.8	7.0	446.5	104.4	73.5	19.0	6.4	2.6	1.3	
18	1.5	6.8	23.0	3.8	45.3	444.2	95.0	110.7	17.0	5.8	2.6	1.1	
19	1.6	5.8	30.2	4.1	140.0	292.0	84.0	103.3	15.5	5.4	2.9	1.1	
20	2.2	5.4	26.6	3.8	683.2	278.0	79.0	80.0	13.7	5.0	2.9	1.1	
21	2.1	5.2	23.0	3.5	666.4	481.0	75.2	73.5	12.4	5.0	2.7	1.0	
22	1.9	4.8	17.4	3.3	386.8	700.0	95.0	68.3	11.4	4.8	2.6	0.9	
23	2.2	4.0	19.4	4.0	211.6	519.0	101.2	67.5	11.1	4.6	2.7	0.9	
24	2.1	3.3	15.5	3.8	180.4	359.5	102.3	61.9	10.6	4.4	2.6	0.8	
25	1.9	3.2	11.7	3.8	1012.2	315.4	95.0	54.3	9.8	4.3	2.7	0.7	
26	1.9	4.4	9.8	3.8	1609.0	266.0	86.0	49.7	9.5	4.3	2.7	0.7	
27	2.4	3.8	8.3	5.8	1372.4	403.6	81.0	49.0	9.0	4.3	2.6	0.6	
28	2.4	4.0	10.3	6.0	559.0	860.4	77.0	45.3	8.7	4.1	2.2	0.5	
29	4.3	3.8	10.0	5.6	310.0	895.6	73.5	42.6	8.7	4.1	2.2	0.6	
30	5.0	3.6	8.1	5.6	220.9	677.6	65.9	40.6	8.7	4.0		0.5	
31		3.5		6.0	164.2		59.5		8.5	3.8		0.6	
TOTAL	61.3	189.1	422.1	153.0	7654.9	9753.6	5042.5	2070.4	629.2	185.0	87.6	37.1	26285.8 CMSDAY
MEAN	2.0	6.1	14.1	4.9	246.9	325.1	162.7	69.0	20.3	6.0	3.0	1.2	71.8 CMS
MAX	5.0	16.6	30.2	6.8	1609.0	895.6	407.8	140.0	38.0	8.3	3.8	2.1	1609.0 CMS
MIN	1.2	3.0	2.4	3.3	3.8	69.2	59.5	40.6	8.5	3.8	2.2	0.5	0.5 CMS
RUNOFF	5.30	16.34	36.47	13.22	661.38	842.71	435.67	178.88	54.36	15.98	7.57	3.21	2271.09 MCM

MOMENTARY PEAK 1681.00 CMS, AT 67.02 M (MSL), AT 23.00 HOURS, ON AUG 26, 1987
RUNOFF YIELD 5.67 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 132.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

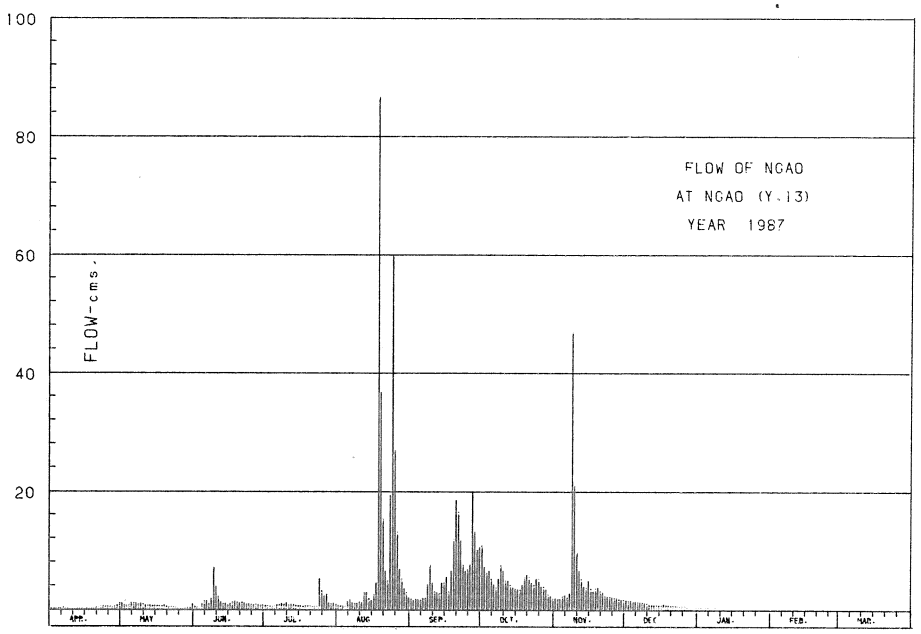
NGAO RIVER AT NGAO, LAMPANG (Y.13)

LOCATION	LAT. 18°45'06" N., LONG. 99°58'53" E., ON LEFT BANK DOWNSTREAM AT THE BRIDGE ON HIGHWAY, AMPHOE NGAO, LAMPANG.
DRAINAGE AREA	382 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+266.30 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 10.00 METERS NORTH OF THE TOP STAFF GAGE.
ELEVATION	+273.180 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1957 - 1988.
RATING OPERATION	
PERIOD OF RATING	1957-1958, 1969, 1971 - 1987.
RATED BY FLOAT	-
RATED BY CURRENT METER	1957-1958, 1969, 1971 - 1987.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY THE WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	266.47	266.65	266.55	266.59	266.59	266.75	267.10	266.76	266.72	266.52	267.02	267.29	
2	266.46	266.61	266.53	266.57	266.58	266.72	267.00	266.75	266.72	266.52	267.01	267.34	
3	266.47	266.58	266.55	266.56	266.56	266.75	266.97	266.75	266.72	266.51	267.01	267.32	
4	266.47	266.61	266.63	266.55	266.55	266.74	266.98	266.80	266.70	266.51	267.05	267.32	
5	266.49	266.67	266.71	266.56	266.70	266.73	266.94	266.81	266.70	266.51	267.05	267.35	
6	266.50	266.67	266.71	266.61	266.73	266.76	266.91	266.78	266.69	266.51	266.95	267.47	
7	266.49	266.65	266.64	266.62	266.67	266.77	266.89	266.83	266.68	266.51	266.87	267.49	
8	266.47	266.63	266.75	266.64	266.65	266.91	266.94	267.93	266.68	266.51	266.92	267.24	
9	266.46	266.64	267.00	266.63	266.65	267.01	267.01	267.36	266.66	266.51	267.14	267.53	
10	266.45	266.63	266.90	266.66	266.69	266.92	266.98	267.07	266.66	266.50	267.19	267.10	
11	266.45	266.60	266.79	266.61	266.67	266.85	266.93	266.98	266.62	266.50	267.25	267.02	
12	266.45	266.59	266.68	266.62	266.84	266.84	266.93	266.94	266.61	266.50	267.32	266.97	
13	266.46	266.59	266.64	266.62	266.84	266.83	266.91	266.90	266.61	266.49	267.36	266.88	
14	266.45	266.58	266.64	266.59	266.76	266.92	266.89	266.89	266.61	266.64	267.40	267.28	
15	266.44	266.58	266.60	266.58	266.72	266.92	266.88	266.93	266.60	266.86	267.23	267.50	
16	266.45	266.58	266.64	266.57	266.82	266.95	266.87	266.88	266.60	267.05	267.20	267.49	
17	266.46	266.57	266.69	266.55	266.92	266.85	266.87	266.85	266.62	267.06	267.26	267.51	
18	266.45	266.56	266.70	266.57	268.60	266.98	266.91	266.88	266.61	267.02	267.21	267.51	
19	266.46	266.60	266.68	266.57	267.72	267.13	266.95	266.89	266.60	267.04	267.17	267.52	
20	266.50	266.55	266.66	266.56	267.22	267.30	266.96	266.86	266.60	267.04	267.51	267.51	
21	266.50	266.54	266.68	266.55	266.98	267.25	266.95	266.84	266.58	267.08	267.50	267.51	
22	266.56	266.53	266.65	266.55	266.93	267.12	266.92	266.81	266.57	267.09	267.47	267.35	
23	266.56	266.52	266.63	266.55	267.32	267.01	266.91	266.79	266.56	267.05	267.44	267.45	
24	266.55	266.50	266.63	266.94	268.17	266.98	266.94	266.79	266.55	267.06	267.40	267.50	
25	266.55	266.48	266.62	266.86	267.50	266.99	266.94	266.78	266.56	267.07	267.42	267.45	
26	266.54	266.47	266.61	266.80	267.16	267.01	266.90	266.77	266.56	267.09	267.44	267.52	
27	266.52	266.47	266.63	266.82	266.99	267.34	266.90	266.76	266.54	267.05	267.43	267.51	
28	266.57	266.49	266.61	266.66	266.94	267.16	266.87	266.75	266.52	267.07	267.42	267.51	
29	266.60	266.50	266.60	266.65	266.88	267.09	266.82	266.74	266.51	267.06	267.40	267.51	
30	266.66	266.60	266.60	266.65	266.84	267.09	266.80	266.74	266.53	267.05		267.51	
31		266.62		266.63	266.77		266.76		266.52	267.05		267.48	
MEAN	266.50	266.58	266.67	266.63	266.97	266.96	266.92	266.89	266.61	266.81	267.24	267.39	
MAX	266.66	266.67	267.00	266.94	268.60	267.34	267.10	267.93	266.72	267.09	267.51	267.53	268.60
MIN	266.44	266.47	266.53	266.55	266.55	266.72	266.76	266.74	266.51	266.49	266.87	266.88	266.44

ANNUAL MAX MOMENTARY GAGE HEIGHT 269.35 M (MSL), AT 10.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 266.30 M (MSL), RIVER BED 265.58 M (MSL)
LEFT BANK ELEVATION 274.87 M (MSL)
RIGHT BANK ELEVATION 273.62 M (MSL), DRAINAGE AREA 382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	1.05	0.55	0.71	0.71	1.82	10.90	1.91	1.54	0.43	0.00	0.00	
2	0.21	0.81	0.47	0.63	0.67	1.54	7.20	1.82	1.54	0.43	0.00	0.00	
3	0.25	0.67	0.55	0.59	0.59	1.82	6.21	1.82	1.54	0.39	0.00	0.00	
4	0.25	0.81	0.93	0.55	0.55	1.72	6.54	2.28	1.35	0.39	0.00	0.00	
5	0.31	1.17	1.44	0.59	1.35	1.63	5.22	2.44	1.35	0.39	0.00	0.00	
6	0.35	1.17	1.44	0.81	1.63	1.91	4.23	2.09	1.29	0.39	0.00	0.00	
7	0.31	1.05	0.99	0.87	1.17	2.00	3.74	2.77	1.23	0.39	0.00	0.00	
8	0.25	0.93	1.82	0.99	1.05	4.23	5.22	47.06	1.23	0.39	0.00	0.00	
9	0.21	0.99	7.20	0.93	1.05	7.57	7.57	20.96	1.11	0.39	0.00	0.00	
10	0.17	0.93	3.90	1.11	1.29	4.56	6.54	9.79	1.11	0.35	0.00	0.00	
11	0.17	0.75	2.19	0.81	1.17	3.09	4.89	6.54	0.87	0.35	0.00	0.00	
12	0.17	0.71	1.23	0.87	2.93	2.93	4.89	5.22	0.81	0.35	0.00	0.00	
13	0.21	0.71	0.99	0.87	2.93	2.77	4.23	3.90	0.81	0.31	0.00	0.00	
14	0.17	0.67	0.99	0.71	1.91	4.56	3.74	3.74	0.81	0.00	0.00	0.00	
15	0.14	0.67	0.75	0.67	1.54	4.56	3.58	4.89	0.75	0.00	0.00	0.00	
16	0.17	0.67	0.99	0.63	2.60	5.55	3.41	3.58	0.75	0.00	0.00	0.00	
17	0.21	0.63	1.29	0.55	4.56	3.09	3.41	3.09	0.87	0.00	0.00	0.00	
18	0.17	0.59	1.35	0.63	86.80	6.54	4.23	3.58	0.81	0.00	0.00	0.00	
19	0.21	0.75	1.23	0.63	36.74	12.01	5.55	3.74	0.75	0.00	0.00	0.00	
20	0.35	0.55	1.11	0.59	15.38	18.50	5.88	3.25	0.75	0.00	0.00	0.00	
21	0.35	0.51	1.23	0.55	6.54	16.55	5.55	2.93	0.67	0.00	0.00	0.00	
22	0.59	0.47	1.05	0.55	4.89	11.64	4.56	2.44	0.63	0.00	0.00	0.00	
23	0.59	0.43	0.93	0.55	19.32	7.57	4.23	2.19	0.59	0.00	0.00	0.00	
24	0.55	0.35	0.93	5.22	60.02	6.54	5.22	2.19	0.55	0.00	0.00	0.00	
25	0.55	0.28	0.87	3.25	26.90	6.87	5.22	2.09	0.59	0.00	0.00	0.00	
26	0.51	0.25	0.81	2.28	13.12	7.57	3.90	2.00	0.59	0.00	0.00	0.00	
27	0.43	0.25	0.93	2.60	6.87	20.14	3.90	1.91	0.51	0.00	0.00	0.00	
28	0.63	0.31	0.81	1.11	5.22	13.12	3.41	1.82	0.43	0.00	0.00	0.00	
29	0.75	0.35	0.75	1.05	3.58	10.53	2.60	1.72	0.39	0.00	0.00	0.00	
30	1.11	0.75	0.75	1.05	2.93	10.53	2.28	1.72	0.47	0.00		0.00	
31		0.87		0.93	2.00		1.91		0.43	0.00		0.00	
TOTAL	10.59	21.10	40.47	33.88	318.01	203.46	149.96	155.48	27.12	4.95	0.00	0.00	965.02 CMSDAY
MEAN	0.35	0.68	1.35	1.09	10.26	6.78	4.84	5.18	0.87	0.16	0.00	0.00	2.64 CMS
MAX	1.11	1.17	7.20	5.22	86.80	20.14	10.90	47.06	1.54	0.43	0.00	0.00	86.80 CMS
MIN	0.14	0.25	0.47	0.55	0.55	1.54	1.91	1.72	0.39	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.915	1.823	3.497	2.927	27.476	17.579	12.957	13.433	2.343	0.428	0.000	0.000	83.378 MCM

MOMENTARY PEAK 147.50 CMS, AT 269.35 M (MSL), AT 10.00 HOURS, ON AUG 18, 1987

RUNOFF YIELD 6.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 386.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

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

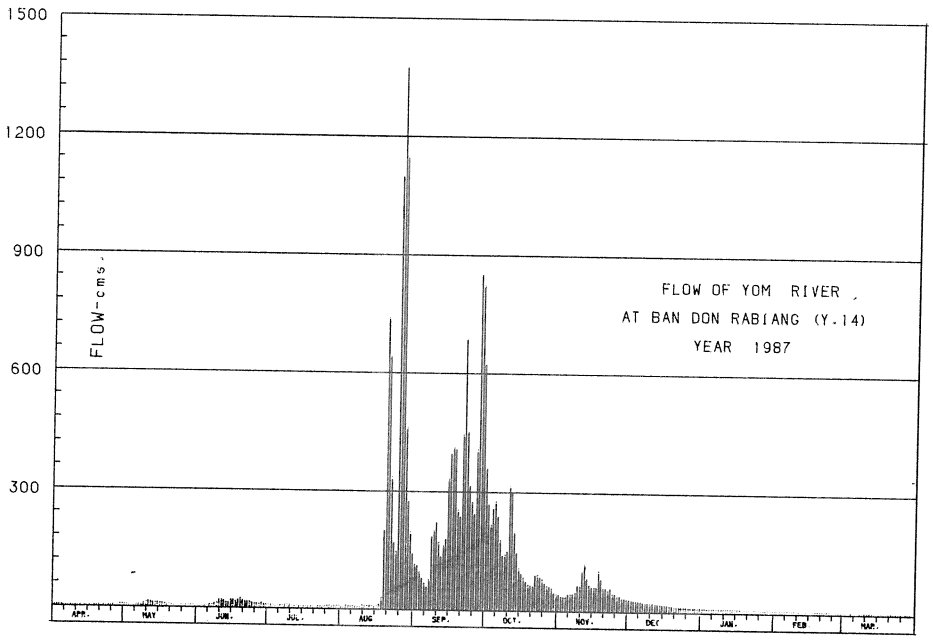
LOCATION — LAT. 17-35-42 N., LONG. 99-43-08 E., ON LEFT BANK ABOUT 50 METERS FROM SI SATCHANALAI-DEN CHAI HIGHWAY NO. 101 AT GUIDEPOST 44 TH., AMPHOE SI SATCHANALAI, SUKHOTHAI.

DRAINAGE AREA	12,131 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+65.10 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	+78.363 M. (M.S.L.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00 - 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1964 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1964 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1964 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	65.69	65.80	65.69	65.89	65.82	67.67	69.50	66.75	66.53	65.99	65.81	65.71	
2	65.70	65.78	65.69	65.88	65.82	67.64	68.90	66.67	66.50	65.97	65.81	65.70	
3	65.72	65.74	65.70	65.84	65.92	67.46	68.53	66.64	66.48	65.96	65.80	65.70	
4	65.69	65.72	65.72	65.81	65.86	67.28	68.82	66.64	66.47	65.95	65.80	65.70	
5	65.68	65.72	65.74	65.79	65.84	67.13	68.96	66.77	66.44	65.95	65.82	65.70	
6	65.65	65.74	65.83	65.84	65.85	66.99	68.68	66.77	66.43	65.95	65.80	65.69	
7	65.64	65.77	65.86	65.87	65.83	67.25	68.23	66.78	66.38	65.94	65.79	65.68	
8	65.63	65.96	65.98	65.87	65.79	68.28	67.89	66.84	66.36	65.94	65.78	65.68	
9	65.62	65.93	66.08	65.92	65.77	68.41	67.92	67.09	66.36	65.93	65.78	65.68	
10	65.62	66.10	66.29	65.90	65.92	68.56	67.99	67.07	66.35	65.93	65.78	65.69	
11	65.61	66.16	66.35	65.88	65.89	68.17	69.22	67.50	66.34	65.93	65.77	65.68	
12	65.60	66.12	66.27	65.85	65.90	67.86	69.09	67.73	66.32	65.93	65.76	65.68	
13	65.60	66.04	66.13	65.83	65.93	68.10	68.41	67.31	66.29	65.93	65.76	65.67	
14	65.60	66.01	66.09	65.80	65.89	68.23	67.96	67.11	66.28	65.92	65.75	65.66	
15	65.59	66.03	66.33	65.79	65.84	69.32	67.59	67.04	66.26	65.92	65.75	65.66	
16	65.60	65.99	66.29	65.78	65.89	69.68	67.43	67.03	66.25	65.91	65.74	65.66	
17	65.61	65.93	66.23	65.77	66.03	69.79	67.33	67.03	66.21	65.90	65.74	65.66	
18	65.63	65.89	66.31	65.79	66.52	69.75	67.21	67.55	66.17	65.88	65.75	65.65	
19	65.67	65.85	66.43	65.77	68.40	68.80	67.11	67.29	66.15	65.88	65.78	65.64	
20	65.68	65.85	66.29	65.76	71.43	68.67	67.08	67.00	66.11	65.87	65.75	65.63	
21	65.65	65.81	66.22	65.75	70.95	69.96	67.05	67.00	66.08	65.87	65.74	65.63	
22	65.67	65.75	66.20	65.79	69.34	71.17	67.39	66.92	66.07	65.87	65.74	65.62	
23	65.66	65.74	66.19	65.77	68.15	70.02	67.41	66.99	66.06	65.85	65.76	65.61	
24	65.64	65.78	66.10	65.76	67.97	69.20	67.33	66.80	66.04	65.85	65.76	65.60	
25	65.66	65.77	66.03	65.77	72.97	68.94	67.29	66.79	66.03	65.84	65.75	65.60	
26	65.70	65.77	65.99	65.85	74.13	68.72	67.16	66.68	66.02	65.84	65.75	65.60	
27	65.69	65.77	65.98	65.90	73.17	69.75	67.07	66.70	66.01	65.83	65.74	65.60	
28	65.77	65.78	66.08	65.85	70.05	71.91	67.04	66.58	66.00	65.83	65.73	65.60	
29	65.83	65.78	65.96	65.86	68.94	71.81	66.99	66.58	66.00	65.82	65.72	65.60	
30	65.83	65.76	65.91	65.88	68.38	70.86	66.81	66.56	66.00	65.82		65.60	
31		65.70		65.88	67.92		66.79		65.99	65.81		65.59	
MEAN	65.66	65.86	66.07	65.83	67.68	68.91	67.81	66.94	66.23	65.90	65.77	65.65	
MAX	65.83	66.16	66.43	65.92	74.13	71.91	69.50	67.73	66.53	65.99	65.82	65.71	74.13
MIN	65.59	65.70	65.69	65.75	65.77	66.99	66.79	66.56	65.99	65.81	65.72	65.59	65.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 74.20 M (MSL), AT 16.00 HOURS, ON AUG 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 65.10 M (MSL), RIVER BED 62.91 M (MSL)
LEFT BANK ELEVATION 78.38 M (MSL)
RIGHT BANK ELEVATION 77.81 M (MSL), DRAINAGE AREA 12131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.12	6.50	4.12	8.45	6.93	115.00	363.50	41.00	29.50	10.62	6.72	4.55	
2	4.33	6.07	4.12	8.23	6.93	112.00	268.00	36.50	28.00	10.18	6.72	4.33	
3	4.77	5.20	4.33	7.37	9.10	95.40	216.90	35.00	27.00	9.97	6.50	4.33	
4	4.12	4.77	4.77	6.72	7.80	79.20	256.80	35.00	26.50	9.75	6.50	4.33	
5	3.90	4.77	5.20	6.28	7.37	67.10	276.40	42.20	25.00	9.75	6.93	4.33	
6	3.25	5.20	7.15	7.37	7.58	57.30	237.20	42.20	24.50	9.75	6.50	4.12	
7	3.03	5.85	7.80	8.02	7.15	76.50	178.75	42.80	22.20	9.53	6.28	3.90	
8	2.82	9.97	10.40	8.02	6.28	185.00	137.90	46.80	21.40	9.53	6.07	3.90	
9	2.60	9.32	12.57	9.10	5.85	201.30	141.20	64.30	21.40	9.32	6.07	3.90	
10	2.60	13.00	18.70	8.67	9.10	220.80	148.90	62.90	21.00	9.32	6.07	4.12	
11	2.38	14.80	21.00	8.23	8.45	171.25	317.20	99.00	20.60	9.32	5.85	3.90	
12	2.17	13.60	18.10	7.58	8.67	134.60	296.40	121.00	19.80	9.32	5.63	3.90	
13	2.17	11.70	13.90	7.15	9.32	162.50	201.30	81.90	18.70	9.32	5.63	3.68	
14	2.17	11.05	12.78	6.50	8.45	178.75	145.60	65.70	18.40	9.10	5.42	3.47	
15	1.95	11.48	20.20	6.28	7.37	333.20	107.10	60.80	17.80	9.10	5.42	3.47	
16	2.17	10.62	18.70	6.07	8.45	395.00	92.70	60.10	17.50	8.88	5.20	3.47	
17	2.38	9.32	16.90	5.85	11.48	414.25	83.70	60.10	16.30	8.67	5.20	3.47	
18	2.82	8.45	19.40	6.28	29.00	407.25	72.90	103.50	15.10	8.23	5.42	3.25	
19	3.68	7.58	24.50	5.85	200.00	254.00	65.70	80.10	14.50	8.23	6.07	3.03	
20	3.90	7.58	18.70	5.63	741.86	235.80	63.60	58.00	13.30	8.02	5.42	2.82	
21	3.25	6.72	16.60	5.42	640.00	445.60	61.50	58.00	12.57	8.02	5.20	2.82	
22	3.68	5.42	16.00	6.28	336.40	685.70	89.10	52.40	12.35	8.02	5.20	2.60	
23	3.47	5.20	15.70	5.85	168.75	456.90	90.90	57.30	12.13	7.58	5.63	2.38	
24	3.03	6.07	13.00	5.63	146.70	314.00	83.70	44.00	11.70	7.58	5.63	2.17	
25	3.47	5.85	11.48	5.85	1096.80	273.60	80.10	43.40	11.48	7.37	5.42	2.17	
26	4.33	5.85	10.62	7.58	1380.87	242.80	69.20	37.00	11.27	7.37	5.42	2.17	
27	4.12	5.85	10.40	8.67	1144.80	407.25	62.90	38.00	11.05	7.15	5.20	2.17	
28	5.85	6.07	12.57	7.58	462.75	849.30	60.80	32.00	10.83	7.15	4.98	2.17	
29	7.15	6.07	9.97	7.80	273.60	826.30	57.30	32.00	10.83	6.93	4.77	2.17	
30	7.15	5.63	8.88	8.23	197.50	622.00	44.70	31.00	10.83	6.93		2.17	
31		4.33		8.23	141.20		43.40		10.62	6.72		1.95	
TOTAL	106.83	239.89	388.56	220.77	7096.51	9019.65	4415.35	1664.00	544.16	266.73	167.07	101.21	24230.73 CMSDAY
MEAN	3.56	7.74	12.95	7.12	228.92	300.65	142.43	55.47	17.55	8.60	5.76	3.26	66.20 CMS
MAX	7.15	14.80	24.50	9.10	1380.87	849.30	363.50	121.00	29.50	10.62	6.93	4.55	1380.87 CMS
MIN	1.95	4.33	4.12	5.42	5.85	57.30	43.40	31.00	10.62	6.72	4.77	1.95	1.95 CMS
RUNOFF	9.230	20.726	33.572	19.075	613.139	779.298	381.486	143.770	47.015	23.045	14.435	8.745	2093.535 MCM

MOMENTARY PEAK 1398.88 CMS, AT 74.20 M (MSL), AT 16.00 HOURS, ON AUG 26, 1987
RUNOFF YIELD 5.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 115.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +180.976 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +193.552 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

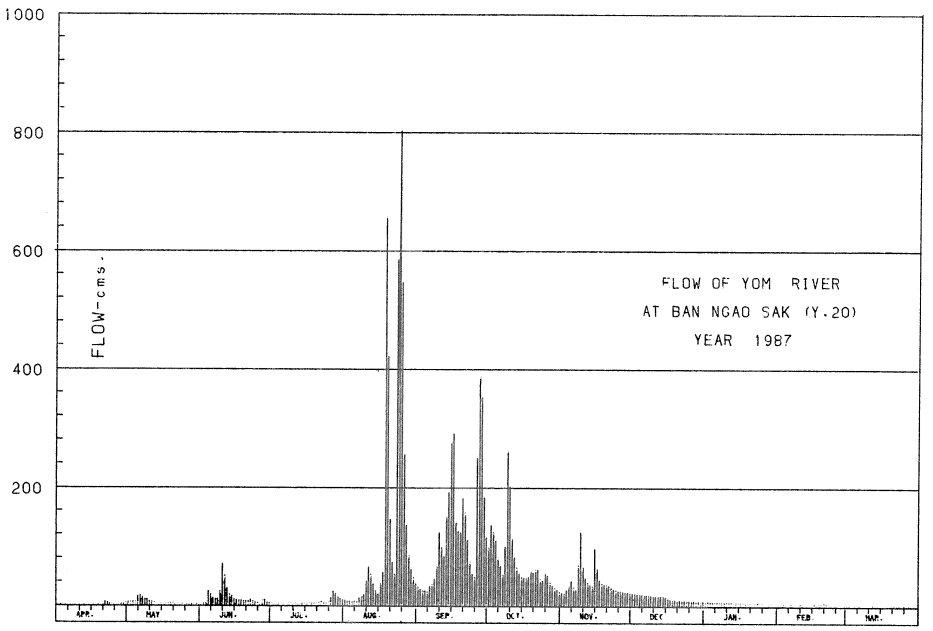
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 213 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	181.33	181.58	181.41	181.51	181.69	182.33	183.51	182.08	182.06	181.64	181.52	181.44	
2	181.32	181.60	181.47	181.51	181.64	182.24	183.99	182.06	182.04	181.63	181.52	181.43	
3	181.32	181.59	181.66	181.52	181.63	182.18	183.86	182.20	182.02	181.63	181.52	181.43	
4	181.31	181.62	182.14	181.51	181.61	182.18	183.67	182.39	182.01	181.62	181.51	181.42	
5	181.31	181.90	182.01	181.50	181.64	182.13	183.27	182.55	181.99	181.62	181.50	181.42	
6	181.31	181.96	181.82	181.49	181.64	182.36	183.01	182.32	181.99	181.61	181.50	181.41	
7	181.31	181.86	181.78	181.52	181.82	182.45	182.75	182.21	181.98	181.61	181.49	181.41	
8	181.30	181.76	181.77	181.53	181.89	182.62	183.53	183.05	181.97	181.60	181.49	181.40	
9	181.30	181.74	182.17	181.53	181.98	183.00	185.21	183.88	181.95	181.60	181.48	181.40	
10	181.29	181.65	183.07	181.51	182.55	183.84	184.68	182.98	181.93	181.60	181.48	181.40	
11	181.29	181.59	182.73	181.52	182.99	183.51	183.73	182.65	181.91	181.59	181.48	181.39	
12	181.29	181.56	182.28	181.51	182.77	183.28	183.25	182.50	181.92	181.59	181.47	181.40	
13	181.29	181.52	182.00	181.51	182.44	184.18	182.97	182.41	181.92	181.59	181.47	181.40	
14	181.28	181.57	181.92	181.51	182.17	184.59	182.80	182.38	181.93	181.58	181.47	181.40	
15	181.28	181.51	181.79	181.51	182.01	185.32	182.68	183.48	181.89	181.57	181.47	181.40	
16	181.28	181.50	181.72	181.50	182.47	185.41	182.66	182.94	181.82	181.57	181.46	181.39	
17	181.28	181.49	181.71	181.49	182.83	184.09	182.66	182.59	181.75	181.57	181.46	181.39	
18	181.31	181.47	181.70	181.49	187.34	183.87	182.68	182.47	181.74	181.56	181.46	181.39	
19	181.32	181.50	181.65	181.48	186.21	183.89	182.87	182.42	181.72	181.56	181.49	181.39	
20	181.30	181.51	181.65	181.50	184.15	184.49	182.82	182.43	181.71	181.56	181.55	181.38	
21	181.60	181.50	181.66	181.56	183.12	184.24	182.92	182.38	181.70	181.55	181.53	181.38	
22	181.55	181.47	181.72	181.62	182.77	183.68	182.91	182.30	181.70	181.55	181.52	181.37	
23	181.51	181.46	181.68	181.51	187.02	183.15	182.62	182.24	181.69	181.55	181.50	181.37	
24	181.46	181.44	181.57	181.51	187.98	182.78	182.57	182.21	181.68	181.55	181.48	181.36	
25	181.42	181.42	181.54	181.62	186.84	182.69	182.79	182.17	181.68	181.54	181.47	181.36	
26	181.39	181.41	181.52	181.83	185.17	185.10	182.73	182.16	181.67	181.54	181.46	181.35	
27	181.39	181.39	181.70	182.16	183.99	186.02	182.51	182.13	181.66	181.54	181.45	181.35	
28	181.40	181.39	181.72	182.04	183.31	185.81	182.39	182.12	181.66	181.53	181.45	181.35	
29	181.43	181.41	181.58	181.88	182.92	184.54	182.29	182.10	181.65	181.53	181.44	181.34	
30	181.54	181.42	181.54	181.79	182.66	183.74	182.22	182.08	181.65	181.52		181.34	
31		181.39		181.74	182.45		182.13		181.65	181.52		181.33	
MEAN	181.36	181.55	181.82	181.59	183.28	183.66	183.05	182.46	181.83	181.57	181.49	181.39	
MAX	181.60	181.96	183.07	182.16	187.98	186.02	185.21	183.88	182.06	181.64	181.55	181.44	187.98
MIN	181.28	181.39	181.41	181.48	181.61	182.13	182.13	182.06	181.65	181.52	181.44	181.33	181.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 188.98 M (MSL), AT 18.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 180.98 M (MSL), RIVER BED 179.47 M (MSL)
LEFT BANK ELEVATION 193.50 M (MSL)
RIGHT BANK ELEVATION 193.59 M (MSL), DRAINAGE AREA 5410 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.5	6.1	2.7	4.7	9.0	32.0	98.7	22.0	21.2	7.6	4.9	3.3	
2	1.3	6.5	3.9	4.7	7.6	28.2	136.1	21.2	20.5	7.3	4.9	3.1	
3	1.3	6.3	8.1	4.9	7.3	25.7	125.1	26.5	19.7	7.3	4.9	3.1	
4	1.1	7.0	24.3	4.7	6.8	25.7	110.2	34.6	19.4	7.0	4.7	2.9	
5	1.1	15.5	19.4	4.5	7.6	23.9	82.9	42.1	18.6	7.0	4.5	2.9	
6	1.1	17.6	12.7	4.3	7.6	33.3	67.2	31.6	18.6	6.8	4.5	2.7	
7	1.1	14.1	11.4	4.9	12.7	37.4	52.4	26.9	18.3	6.8	4.3	2.7	
8	1.0	10.9	11.2	5.1	15.1	45.5	100.1	69.6	18.0	6.5	4.3	2.5	
9	1.0	10.3	25.4	5.1	18.3	66.6	264.3	126.8	17.2	6.5	4.1	2.5	
10	0.9	7.9	70.8	4.7	42.1	123.4	201.8	65.4	16.5	6.5	4.1	2.5	
11	0.9	6.3	51.3	4.9	66.0	98.7	114.7	47.1	15.8	6.3	4.1	2.4	
12	0.9	5.7	29.9	4.7	53.4	83.6	81.7	39.7	16.2	6.3	3.9	2.5	
13	0.9	4.9	19.0	4.7	36.9	152.3	64.9	35.5	16.2	6.3	3.9	2.5	
14	0.8	5.9	16.2	4.7	25.4	192.0	55.0	34.1	16.5	6.1	3.9	2.5	
15	0.8	4.7	11.7	4.7	19.4	279.2	48.7	96.6	15.1	5.9	3.9	2.5	
16	0.8	4.5	9.8	4.5	38.3	291.4	47.6	63.1	12.7	5.9	3.7	2.4	
17	0.8	4.3	9.5	4.3	56.7	144.6	47.6	44.0	10.6	5.9	3.7	2.4	
18	1.1	3.9	9.2	4.3	657.5	125.9	48.7	38.3	10.3	5.7	3.7	2.4	
19	1.3	4.5	7.9	4.1	421.8	127.6	59.1	36.0	9.8	5.7	4.3	2.4	
20	1.0	4.7	7.9	4.5	149.7	182.0	56.2	36.4	9.5	5.7	5.5	2.2	
21	6.5	4.5	8.1	5.7	73.8	157.8	62.0	34.1	9.2	5.5	5.1	2.2	
22	5.5	3.9	9.8	7.0	53.4	111.0	61.4	30.8	9.2	5.5	4.9	2.0	
23	4.7	3.7	8.7	4.7	585.5	75.6	45.5	28.2	9.0	5.5	4.5	2.0	
24	3.7	3.3	5.9	4.7	808.1	53.9	43.1	26.9	8.7	5.5	4.1	1.9	
25	2.9	2.9	5.3	7.0	546.6	49.2	54.5	25.4	8.7	5.3	3.9	1.9	
26	2.4	2.7	4.9	13.0	259.1	250.0	51.3	25.0	8.4	5.3	3.7	1.7	
27	2.4	2.4	9.2	25.0	136.1	388.5	40.2	23.9	8.1	5.2	3.5	1.7	
28	2.5	2.4	9.8	20.5	85.4	352.7	34.6	23.5	8.1	5.1	3.5	1.7	
29	3.1	2.7	6.1	14.8	62.0	187.0	30.3	22.7	7.9	5.1	3.3	1.6	
30	5.3	2.9	5.3	11.7	47.6	115.5	27.4	22.0	7.9	4.9		1.6	
31		2.4		10.3	37.4		23.9		7.9	4.9		1.5	
TOTAL	59.7	185.4	435.4	217.4	4354.2	3860.2	2337.2	1200.0	413.8	186.9	122.3	72.2	13444.7 CMSDAY
MEAN	2.0	6.0	14.5	7.0	140.5	128.7	75.4	40.0	13.3	6.0	4.2	2.3	36.7 CMS
MAX	6.5	17.6	70.8	25.0	808.1	388.5	264.3	126.8	21.2	7.6	5.5	3.3	808.1 CMS
MIN	0.8	2.4	2.7	4.1	6.8	23.9	23.9	21.2	7.9	4.9	3.3	1.5	0.8 CMS
RUNOFF	5.16	16.02	37.62	18.78	376.20	333.52	201.93	103.68	35.75	16.15	10.57	6.24	1161.62 MCM

MOMENTARY PEAK 1076.30 CMS, AT 188.98 M (MSL), AT 18.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD 6.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 198.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

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

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

DRAINAGE AREA — 597 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +7.035 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1977 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 - 1986.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 - 1986.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

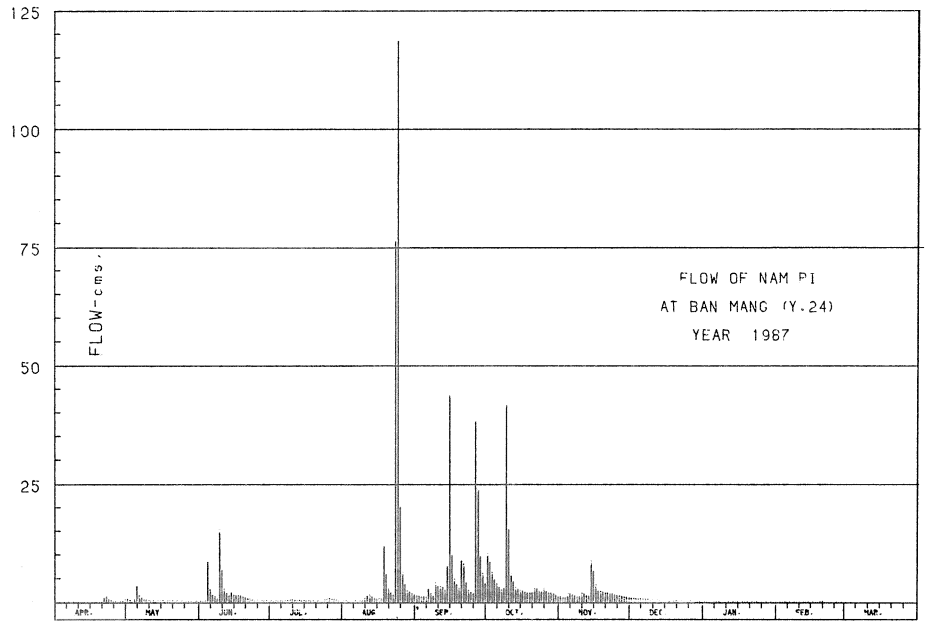
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 64 DISCHARGE MEASUREMENTS MADE DURING 1985-1986.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.30	1.54	1.36	1.42	1.48	1.64	2.11	1.62	1.58	1.36	1.30	1.28	
2	1.28	1.50	1.36	1.42	1.46	1.63	2.05	1.60	1.58	1.36	1.30	1.28	
3	1.28	1.44	1.41	1.42	1.46	1.62	1.97	1.60	1.57	1.36	1.32	1.26	
4	1.28	1.57	2.05	1.42	1.44	1.62	1.89	1.70	1.56	1.36	1.34	1.26	
5	1.27	1.82	1.78	1.41	1.44	1.62	1.85	1.68	1.56	1.36	1.32	1.24	
6	1.27	1.65	1.65	1.43	1.42	1.78	1.81	1.66	1.55	1.36	1.30	1.24	
7	1.27	1.59	1.63	1.44	1.42	1.69	1.77	1.64	1.54	1.36	1.30	1.24	
8	1.27	1.52	1.55	1.48	1.40	1.63	1.80	1.62	1.54	1.34	1.30	1.24	
9	1.27	1.52	2.26	1.49	1.46	1.86	2.78	1.62	1.53	1.34	1.32	1.24	
10	1.27	1.48	1.99	1.52	1.58	1.82	2.26	1.70	1.52	1.34	1.32	1.24	
11	1.26	1.46	1.79	1.50	1.63	1.82	1.96	1.68	1.52	1.33	1.32	1.24	
12	1.26	1.46	1.69	1.50	1.67	1.81	1.87	1.65	1.52	1.32	1.32	1.24	
13	1.26	1.44	1.64	1.49	1.62	1.76	1.81	1.63	1.51	1.32	1.32	1.24	
14	1.26	1.44	1.70	1.48	1.59	2.02	1.78	2.06	1.50	1.32	1.32	1.24	
15	1.26	1.46	1.66	1.48	1.54	2.81	1.76	1.98	1.50	1.32	1.32	1.24	
16	1.26	1.48	1.64	1.48	1.57	2.10	1.74	1.84	1.45	1.30	1.32	1.24	
17	1.26	1.46	1.65	1.48	1.54	1.90	1.72	1.74	1.40	1.32	1.30	1.24	
18	1.26	1.44	1.64	1.46	2.18	1.84	1.70	1.74	1.38	1.32	1.28	1.24	
19	1.26	1.46	1.62	1.44	1.95	1.80	1.70	1.72	1.42	1.32	1.36	1.24	
20	1.26	1.45	1.60	1.44	1.79	2.06	1.70	1.70	1.42	1.32	1.37	1.24	
21	1.58	1.44	1.56	1.44	1.70	2.04	1.80	1.70	1.42	1.32	1.34	1.24	
22	1.62	1.44	1.55	1.43	1.66	1.86	1.79	1.68	1.42	1.32	1.33	1.24	
23	1.54	1.42	1.51	1.49	3.24	1.76	1.74	1.68	1.42	1.32	1.30	1.24	
24	1.45	1.40	1.50	1.52	3.66	1.71	1.72	1.66	1.42	1.32	1.30	1.24	
25	1.41	1.38	1.50	1.54	2.38	1.69	1.80	1.65	1.42	1.30	1.30	1.22	
26	1.37	1.38	1.48	1.57	1.97	2.72	1.73	1.64	1.40	1.30	1.30	1.22	
27	1.34	1.38	1.48	1.54	1.84	2.46	1.70	1.63	1.38	1.30	1.30	1.22	
28	1.34	1.36	1.48	1.54	1.75	2.09	1.70	1.62	1.36	1.30	1.30	1.22	
29	1.40	1.36	1.47	1.51	1.72	1.96	1.68	1.61	1.36	1.30	1.29	1.22	
30	1.52	1.36	1.46	1.48	1.69	1.85	1.65	1.60	1.36	1.30		1.22	
31		1.38		1.48	1.66		1.62		1.36	1.30		1.20	
MEAN	1.33	1.47	1.62	1.48	1.77	1.90	1.84	1.69	1.47	1.33	1.31	1.24	
MAX	1.62	1.82	2.26	1.57	3.66	2.81	2.78	2.06	1.58	1.36	1.37	1.28	3.66
MIN	1.26	1.36	1.36	1.41	1.40	1.62	1.62	1.60	1.36	1.30	1.28	1.20	1.20

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.84 M (A.D), AT 6.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.85 M (A.D)
LEFT BANK ELEVATION — 7.63 M (A.D)
RIGHT BANK ELEVATION — 6.49 M (A.D), DRAINAGE AREA 597 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.17	0.70	0.27	0.37	0.47	1.40	10.30	1.20	0.90	0.27	0.17	0.13	
2	0.13	0.50	0.27	0.37	0.43	1.30	8.50	1.00	0.90	0.27	0.17	0.13	
3	0.13	0.40	0.35	0.37	0.43	1.20	6.40	1.00	0.85	0.27	0.20	0.10	
4	0.13	0.85	8.50	0.37	0.40	1.20	4.80	2.00	0.80	0.27	0.23	0.10	
5	0.12	3.40	2.80	0.35	0.40	1.20	4.00	1.80	0.80	0.27	0.20	0.07	
6	0.12	1.50	1.50	0.38	0.37	2.80	3.20	1.60	0.75	0.27	0.17	0.07	
7	0.12	0.95	1.30	0.40	0.37	1.90	2.70	1.40	0.70	0.27	0.17	0.07	
8	0.12	0.60	0.75	0.47	0.33	1.30	3.00	1.20	0.70	0.23	0.17	0.07	
9	0.12	0.60	15.40	0.48	0.43	4.20	41.80	1.20	0.65	0.23	0.20	0.07	
10	0.12	0.47	6.80	0.60	0.90	3.40	15.40	2.00	0.60	0.23	0.20	0.07	
11	0.10	0.43	2.90	0.50	1.30	3.40	6.20	1.80	0.60	0.22	0.20	0.07	
12	0.10	0.43	1.90	0.50	1.70	3.20	4.40	1.50	0.60	0.20	0.20	0.07	
13	0.10	0.40	1.40	0.48	1.20	2.60	3.20	1.30	0.55	0.20	0.20	0.07	
14	0.10	0.40	2.00	0.47	0.95	7.60	2.80	8.80	0.50	0.20	0.20	0.07	
15	0.10	0.43	1.60	0.47	0.70	43.70	2.60	6.60	0.50	0.20	0.20	0.07	
16	0.10	0.47	1.40	0.47	0.85	10.00	2.40	3.80	0.42	0.17	0.20	0.07	
17	0.10	0.43	1.50	0.47	0.70	5.00	2.20	2.40	0.33	0.20	0.17	0.07	
18	0.10	0.40	1.40	0.43	12.40	3.80	2.00	2.40	0.30	0.20	0.13	0.07	
19	0.10	0.43	1.20	0.40	6.00	3.00	2.00	2.20	0.37	0.20	0.27	0.07	
20	0.10	0.42	1.00	0.40	2.90	8.80	2.00	2.00	0.37	0.20	0.28	0.07	
21	0.90	0.40	0.80	0.40	2.00	8.20	3.00	2.00	0.37	0.20	0.23	0.07	
22	1.20	0.40	0.75	0.38	1.60	4.20	2.90	1.80	0.37	0.20	0.22	0.07	
23	0.70	0.37	0.55	0.48	76.20	2.60	2.40	1.80	0.37	0.20	0.17	0.07	
24	0.42	0.33	0.50	0.60	119.20	2.10	2.20	1.60	0.37	0.20	0.17	0.07	
25	0.35	0.30	0.50	0.70	20.20	1.90	3.00	1.50	0.37	0.17	0.17	0.03	
26	0.28	0.30	0.47	0.85	6.40	38.20	2.30	1.40	0.33	0.17	0.17	0.03	
27	0.23	0.30	0.47	0.70	3.80	24.00	2.00	1.30	0.30	0.17	0.17	0.03	
28	0.23	0.27	0.47	0.70	2.50	9.70	2.00	1.20	0.27	0.17	0.17	0.03	
29	0.33	0.27	0.45	0.55	2.20	6.20	1.80	1.10	0.27	0.17	0.15	0.03	
30	0.60	0.27	0.43	0.47	1.90	4.00	1.50	1.00	0.27	0.17		0.03	
31		0.30		0.47	1.60		1.20		0.27	0.17		0.00	
TOTAL	7.52	17.72	59.63	15.05	270.83	212.10	154.20	61.90	15.75	6.56	5.55	2.04	828.85 CMSDAY
MEAN	0.25	0.57	1.99	0.49	8.74	7.07	4.97	2.06	0.51	0.21	0.19	0.07	2.26 CMS
MAX	1.20	3.40	15.40	0.85	119.20	43.70	41.80	8.80	0.90	0.27	0.28	0.13	119.20 CMS
MIN	0.10	0.27	0.27	0.35	0.33	1.20	1.20	1.00	0.27	0.17	0.13	0.00	0.00 CMS
RUNOFF	0.650	1.531	5.152	1.300	23.400	18.325	13.323	5.348	1.361	0.567	0.480	0.176	71.613 MCM

MOMENTARY PEAK 141.60 CMS, AT 3.84 M (A.D), AT 6.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 3.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 237.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

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

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

DRAINAGE AREA — 203 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +4.637 M.(A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1980 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 - 1986.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 - 1986.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. NO RECORDS ON OCT.1-31,1987. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE DURING 1985-1986.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

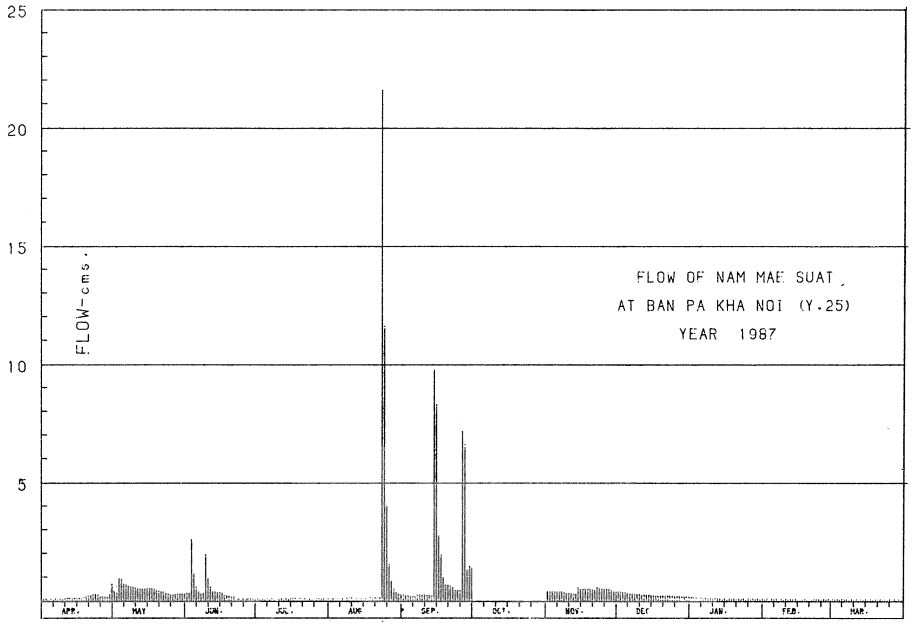
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.33	0.31	0.19	0.20	0.28	*******	0.33	0.33	0.23	0.20	0.19	
2	0.19	0.31	0.31	0.19	0.20	0.26	*******	0.33	0.33	0.23	0.20	0.19	
3	0.19	0.49	0.65	0.19	0.20	0.26	*******	0.33	0.32	0.22	0.20	0.19	
4	0.19	0.48	0.52	0.19	0.20	0.25	*******	0.33	0.32	0.22	0.20	0.19	
5	0.19	0.43	0.40	0.19	0.20	0.25	*******	0.33	0.31	0.22	0.20	0.19	
6	0.19	0.42	0.33	0.19	0.20	0.25	*******	0.33	0.30	0.21	0.20	0.19	
7	0.19	0.41	0.30	0.19	0.20	0.28	*******	0.33	0.30	0.21	0.20	0.19	
8	0.19	0.40	0.31	0.19	0.21	0.28	*******	0.32	0.30	0.21	0.20	0.19	
9	0.19	0.40	0.61	0.19	0.22	0.28	*******	0.31	0.29	0.21	0.20	0.19	
10	0.20	0.39	0.49	0.20	0.22	0.28	*******	0.31	0.29	0.21	0.20	0.19	
11	0.21	0.38	0.40	0.20	0.21	0.27	*******	0.31	0.28	0.21	0.19	0.19	
12	0.21	0.37	0.33	0.20	0.21	0.27	*******	0.30	0.28	0.21	0.19	0.19	
13	0.21	0.37	0.33	0.20	0.21	0.26	*******	0.30	0.28	0.20	0.19	0.19	
14	0.21	0.37	0.32	0.20	0.20	0.94	*******	0.39	0.28	0.20	0.19	0.19	
15	0.21	0.38	0.32	0.20	0.20	0.90	*******	0.37	0.27	0.20	0.19	0.19	
16	0.21	0.38	0.31	0.21	0.20	0.66	*******	0.37	0.26	0.20	0.19	0.19	
17	0.21	0.38	0.27	0.21	0.20	0.61	*******	0.37	0.26	0.20	0.19	0.19	
18	0.23	0.37	0.26	0.21	0.22	0.50	*******	0.37	0.26	0.20	0.19	0.19	
19	0.24	0.35	0.25	0.21	0.22	0.42	*******	0.37	0.26	0.20	0.19	0.19	
20	0.26	0.34	0.24	0.21	0.22	0.42	*******	0.36	0.26	0.20	0.19	0.19	
21	0.27	0.33	0.24	0.20	0.22	0.41	*******	0.35	0.26	0.20	0.19	0.19	
22	0.29	0.33	0.20	0.19	0.22	0.39	*******	0.39	0.26	0.20	0.19	0.18	
23	0.29	0.31	0.20	0.19	1.19	0.35	*******	0.38	0.26	0.20	0.19	0.18	
24	0.28	0.30	0.20	0.19	0.99	0.35	*******	0.37	0.26	0.20	0.19	0.18	
25	0.24	0.28	0.20	0.20	0.73	0.35	*******	0.37	0.25	0.20	0.19	0.18	
26	0.24	0.28	0.20	0.20	0.57	0.86	*******	0.37	0.25	0.20	0.19	0.18	
27	0.24	0.29	0.20	0.20	0.46	0.84	*******	0.37	0.25	0.20	0.19	0.18	
28	0.23	0.30	0.19	0.20	0.37	0.54	*******	0.35	0.24	0.20	0.19	0.18	
29	0.28	0.30	0.19	0.20	0.32	0.56	*******	0.33	0.24	0.20	0.19	0.18	
30	0.43	0.30	0.19	0.20	0.30	0.55	*******	0.33	0.24	0.20		0.17	
31		0.30		0.20	0.28		*******		0.24	0.20		0.17	
MEAN	0.23	0.36	0.31	0.20	0.32	0.44	*******	0.35	0.28	0.21	0.19	0.19	
MAX	0.43	0.49	0.65	0.21	1.19	0.94	*******	0.39	0.33	0.23	0.20	0.19	1.19
MIN	0.19	0.28	0.19	0.19	0.20	0.25	*******	0.30	0.24	0.20	0.19	0.17	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.53 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.16 M (A.D)

LEFT BANK ELEVATION — 3.69 M (A.D)

RIGHT BANK ELEVATION — 5.76 M (A.D), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.39	0.33	0.09	0.10	0.26	********	0.39	0.39	0.16	0.10	0.09	
2	0.09	0.33	0.33	0.09	0.10	0.22	********	0.39	0.39	0.16	0.10	0.09	
3	0.09	0.96	2.60	0.09	0.10	0.22	********	0.39	0.36	0.14	0.10	0.09	
4	0.09	0.92	1.16	0.09	0.10	0.20	********	0.39	0.36	0.14	0.10	0.09	
5	0.09	0.72	0.60	0.09	0.10	0.20	********	0.39	0.33	0.14	0.10	0.09	
6	0.09	0.68	0.39	0.09	0.10	0.20	********	0.39	0.30	0.12	0.10	0.09	
7	0.09	0.64	0.30	0.09	0.10	0.26	********	0.39	0.30	0.12	0.10	0.09	
8	0.09	0.60	0.33	0.09	0.12	0.26	********	0.36	0.30	0.12	0.10	0.09	
9	0.09	0.60	1.96	0.09	0.14	0.26	********	0.33	0.28	0.12	0.10	0.09	
10	0.10	0.57	0.96	0.10	0.14	0.26	********	0.33	0.28	0.12	0.10	0.09	
11	0.12	0.54	0.60	0.10	0.12	0.24	********	0.33	0.26	0.12	0.09	0.09	
12	0.12	0.51	0.39	0.10	0.12	0.24	********	0.30	0.26	0.12	0.09	0.09	
13	0.12	0.51	0.39	0.10	0.12	0.22	********	0.30	0.26	0.10	0.09	0.09	
14	0.12	0.51	0.36	0.10	0.10	9.78	********	0.57	0.26	0.10	0.09	0.09	
15	0.12	0.54	0.36	0.10	0.10	8.30	********	0.51	0.24	0.10	0.09	0.09	
16	0.12	0.54	0.33	0.12	0.10	2.76	********	0.51	0.22	0.10	0.09	0.09	
17	0.12	0.54	0.24	0.12	0.10	1.96	********	0.51	0.22	0.10	0.09	0.09	
18	0.16	0.51	0.22	0.12	0.14	1.00	********	0.51	0.22	0.10	0.09	0.09	
19	0.18	0.45	0.20	0.12	0.14	0.68	********	0.51	0.22	0.10	0.09	0.09	
20	0.22	0.42	0.18	0.12	0.14	0.68	********	0.48	0.22	0.10	0.09	0.09	
21	0.24	0.39	0.18	0.10	0.14	0.64	********	0.45	0.22	0.10	0.09	0.09	
22	0.28	0.39	0.10	0.09	0.14	0.57	********	0.57	0.22	0.10	0.09	0.08	
23	0.28	0.33	0.10	0.09	21.62	0.45	********	0.54	0.22	0.10	0.09	0.08	
24	0.26	0.30	0.10	0.09	11.63	0.45	********	0.51	0.22	0.10	0.09	0.08	
25	0.18	0.26	0.10	0.10	4.03	0.45	********	0.51	0.20	0.10	0.09	0.08	
26	0.18	0.26	0.10	0.10	1.56	7.18	********	0.51	0.20	0.10	0.09	0.08	
27	0.18	0.28	0.10	0.10	0.84	6.62	********	0.51	0.20	0.10	0.09	0.08	
28	0.16	0.30	0.09	0.10	0.51	1.32	********	0.45	0.18	0.10	0.09	0.08	
29	0.26	0.30	0.09	0.10	0.36	1.48	********	0.39	0.18	0.10	0.09	0.08	
30	0.72	0.30	0.09	0.10	0.30	1.40	********	0.39	0.18	0.10		0.07	
31		0.30		0.10	0.26		********		0.18	0.10		0.07	
TOTAL	5.05	14.89	13.28	3.08	43.67	48.76	********	13.11	7.87	3.48	2.71	2.67	******** CMSDAY
MEAN	0.17	0.48	0.44	0.10	1.41	1.63	********	0.44	0.25	0.11	0.09	0.09	******** CMS
MAX	0.72	0.96	2.60	0.12	21.62	9.78	********	0.57	0.39	0.16	0.10	0.09	21.62 CMS
MIN	0.09	0.26	0.09	0.09	0.10	0.20	********	0.30	0.18	0.10	0.09	0.07	******** CMS
RUNOFF	0.436	1.286	1.147	0.266	3.773	4.213	********	1.133	0.680	0.301	0.234	0.231	******** MCM

MOMENTARY PEAK 52.92 CMS, AT 1.53 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 260.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

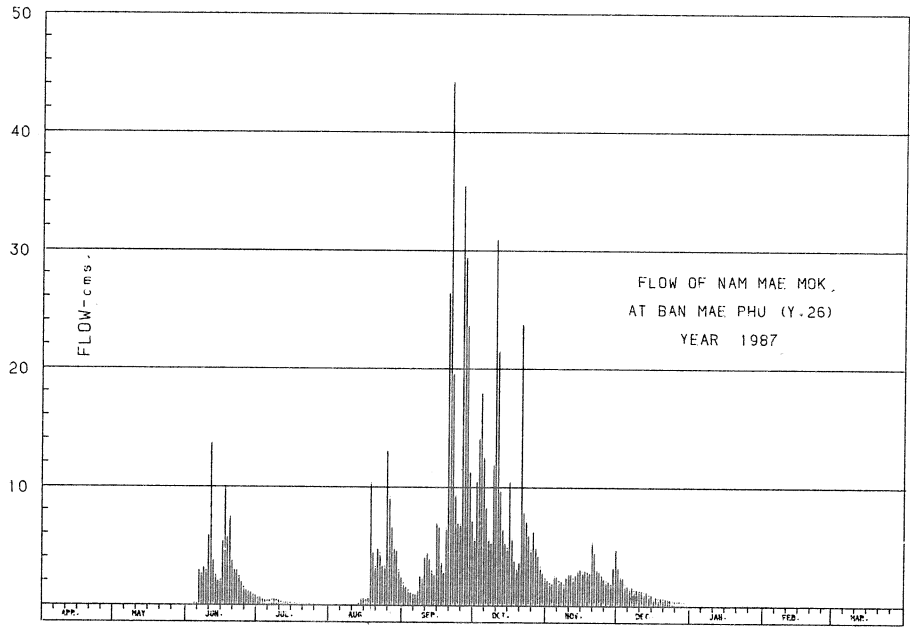
HUAI MAE MOK AT BAN MAE PHU, LAMPANG (Y.26)

LOCATION	LAT. 17°19'45" N., LONG. 99°27'42" E., ON LEFT BANK DOWNSTREAM FROM BAN MAE PHU, TAMBON WIANG MOK, AMPHOE THOEN, LAMPANG.
DRAINAGE AREA	785 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ALONG THE GAGE LINE.
ELEVATION	+8.00 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 85 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.33	0.30	0.85	0.70	0.99	1.28	1.01	1.11	0.80	0.72	0.62	
2	0.39	0.32	0.29	0.85	0.70	0.95	1.53	0.99	1.06	0.80	0.72	0.60	
3	0.39	0.31	0.29	0.83	0.68	0.93	1.70	0.98	1.03	0.80	0.72	0.59	
4	0.38	0.30	0.78	0.82	0.67	0.90	1.84	1.05	0.98	0.80	0.72	0.58	
5	0.38	0.29	0.76	0.82	0.67	0.89	1.63	1.04	0.96	0.80	0.72	0.56	
6	0.37	0.29	1.09	0.82	0.66	0.88	1.42	1.01	0.95	0.80	0.71	0.55	
7	0.36	0.29	1.06	0.83	0.66	0.92	1.28	1.00	0.95	0.80	0.71	0.54	
8	0.36	0.28	1.11	0.83	0.65	1.04	1.25	0.98	0.93	0.80	0.70	0.54	
9	0.35	0.28	1.09	0.83	0.64	1.02	1.61	1.03	0.93	0.79	0.70	0.53	
10	0.34	0.27	1.29	0.82	0.64	1.17	2.27	1.08	0.94	0.79	0.70	0.52	
11	0.34	0.27	1.68	0.81	0.66	1.21	1.97	1.06	0.92	0.79	0.70	0.51	
12	0.33	0.26	1.15	0.81	0.70	1.16	1.49	1.03	0.91	0.78	0.70	0.51	
13	0.32	0.26	1.05	0.80	0.78	1.09	1.33	1.05	0.91	0.78	0.70	0.50	
14	0.32	0.26	1.00	0.80	0.85	1.05	1.25	1.10	0.89	0.77	0.70	0.49	
15	0.31	0.26	1.01	0.79	0.84	1.36	1.23	1.10	0.88	0.77	0.70	0.48	
16	0.30	0.25	1.26	0.78	0.83	1.33	1.53	1.09	0.87	0.77	0.70	0.47	
17	0.30	0.25	1.51	0.78	0.84	1.14	1.28	1.09	0.86	0.77	0.69	0.46	
18	0.30	0.24	1.28	0.78	1.53	1.07	1.15	1.08	0.85	0.76	0.69	0.45	
19	0.29	0.24	1.38	0.77	1.20	1.33	1.10	1.07	0.85	0.76	0.69	0.45	
20	0.29	0.23	1.15	0.76	1.12	2.13	1.14	1.26	0.85	0.76	0.68	0.44	
21	0.28	0.23	1.09	0.74	1.22	2.65	2.05	1.20	0.84	0.76	0.68	0.44	
22	0.28	0.22	1.09	0.74	1.20	1.90	1.40	1.11	0.84	0.76	0.68	0.43	
23	0.28	0.21	1.04	0.73	1.12	1.48	1.37	1.08	0.83	0.76	0.68	0.42	
24	0.28	0.20	0.99	0.73	1.12	1.35	1.29	1.05	0.83	0.75	0.67	0.41	
25	0.28	0.19	0.95	0.72	1.65	1.35	1.22	1.02	0.82	0.75	0.66	0.40	
26	0.28	0.24	0.92	0.72	1.47	2.40	1.31	1.01	0.82	0.74	0.66	0.40	
27	0.27	0.24	0.91	0.71	1.33	2.23	1.24	1.00	0.82	0.74	0.65	0.39	
28	0.27	0.24	0.90	0.71	1.23	2.04	1.18	0.98	0.81	0.74	0.64	0.38	
29	0.28	0.25	0.88	0.70	1.21	1.58	1.12	1.11	0.81	0.73	0.63	0.37	
30	0.33	0.25	0.87	0.69	1.10	1.36	1.07	1.23	0.81	0.73		0.36	
31		0.31		0.69	1.03		1.03		0.80	0.73		0.36	
MEAN	0.32	0.26	1.01	0.78	0.96	1.36	1.41	1.06	0.89	0.77	0.69	0.48	
MAX	0.40	0.33	1.68	0.85	1.65	2.65	2.27	1.26	1.11	0.80	0.72	0.62	2.65
MIN	0.27	0.19	0.29	0.69	0.64	0.88	1.03	0.98	0.80	0.73	0.63	0.36	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.66 M (A.D), AT 17.00 HOURS, ON SEP 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.45 M (A.D)
LEFT BANK ELEVATION 7.67 M (A.D)
RIGHT BANK ELEVATION 7.80 M (A.D), DRAINAGE AREA 785 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.60	0.00	1.90	5.68	2.10	3.14	0.20	0.04	0.00	
2	0.00	0.00	0.00	0.60	0.00	1.50	10.40	1.90	2.60	0.20	0.04	0.00	
3	0.00	0.00	0.00	0.44	0.00	1.30	14.20	1.80	2.30	0.20	0.04	0.00	
4	0.00	0.00	0.16	0.36	0.00	1.00	17.88	2.50	1.80	0.20	0.04	0.00	
5	0.00	0.00	0.12	0.36	0.00	0.92	12.52	2.40	1.60	0.20	0.04	0.00	
6	0.00	0.00	2.90	0.36	0.00	0.84	8.20	2.10	1.50	0.20	0.02	0.00	
7	0.00	0.00	2.60	0.44	0.00	1.20	5.68	2.00	1.50	0.20	0.02	0.00	
8	0.00	0.00	3.14	0.44	0.00	2.40	5.20	1.80	1.30	0.20	0.00	0.00	
9	0.00	0.00	2.90	0.44	0.00	2.20	12.04	2.30	1.30	0.18	0.00	0.00	
10	0.00	0.00	5.84	0.36	0.00	3.98	30.88	2.80	1.40	0.18	0.00	0.00	
11	0.00	0.00	13.72	0.28	0.00	4.56	21.53	2.60	1.20	0.18	0.00	0.00	
12	0.00	0.00	3.70	0.28	0.00	3.84	9.60	2.30	1.10	0.16	0.00	0.00	
13	0.00	0.00	2.50	0.20	0.16	2.90	6.54	2.50	1.10	0.16	0.00	0.00	
14	0.00	0.00	2.00	0.20	0.60	2.50	5.20	3.00	0.92	0.14	0.00	0.00	
15	0.00	0.00	2.10	0.18	0.52	7.08	4.88	3.00	0.84	0.14	0.00	0.00	
16	0.00	0.00	5.36	0.16	0.44	6.54	10.40	2.90	0.76	0.14	0.00	0.00	
17	0.00	0.00	10.00	0.16	0.52	3.56	5.68	2.90	0.68	0.14	0.00	0.00	
18	0.00	0.00	5.68	0.16	10.40	2.70	3.70	2.80	0.60	0.12	0.00	0.00	
19	0.00	0.00	7.44	0.14	4.40	6.54	3.00	2.70	0.60	0.12	0.00	0.00	
20	0.00	0.00	3.70	0.12	3.28	26.33	3.56	5.36	0.60	0.12	0.00	0.00	
21	0.00	0.00	2.90	0.08	4.72	44.30	23.90	4.40	0.52	0.12	0.00	0.00	
22	0.00	0.00	2.90	0.08	4.40	19.50	7.80	3.14	0.52	0.12	0.00	0.00	
23	0.00	0.00	2.40	0.06	3.28	9.40	7.26	2.80	0.44	0.12	0.00	0.00	
24	0.00	0.00	1.90	0.06	3.28	6.90	5.84	2.50	0.44	0.10	0.00	0.00	
25	0.00	0.00	1.50	0.04	13.00	6.90	4.72	2.20	0.36	0.10	0.00	0.00	
26	0.00	0.00	1.20	0.04	9.20	35.40	6.18	2.10	0.36	0.08	0.00	0.00	
27	0.00	0.00	1.10	0.02	6.54	29.52	5.04	2.00	0.36	0.08	0.00	0.00	
28	0.00	0.00	1.00	0.02	4.88	23.60	4.12	1.80	0.28	0.08	0.00	0.00	
29	0.00	0.00	0.84	0.00	4.56	11.40	3.28	3.14	0.28	0.06	0.00	0.00	
30	0.00	0.00	0.76	0.00	3.00	7.08	2.70	4.88	0.28	0.06		0.00	
31		0.00		0.00	2.30		2.30		0.20	0.06		0.00	
TOTAL	0.00	0.00	90.36	6.68	79.48	277.79	269.91	80.72	30.88	4.36	0.24	0.00	840.42 CMSDAY
MEAN	0.00	0.00	3.01	0.22	2.56	9.26	8.71	2.69	1.00	0.14	0.01	0.00	2.30 CMS
MAX	0.00	0.00	13.72	0.60	13.00	44.30	30.88	5.36	3.14	0.20	0.04	0.00	44.30 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.84	2.30	1.80	0.20	0.06	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	7.807	0.577	6.867	24.001	23.320	6.974	2.668	0.377	0.021	0.000	72.612 MCM

MOMENTARY PEAK 144.10 CMS, AT 4.66 M (A.D), AT 17.00 HOURS, ON SEP 26, 1987
RUNOFF YIELD 2.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 183.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

YOM RIVER BASIN

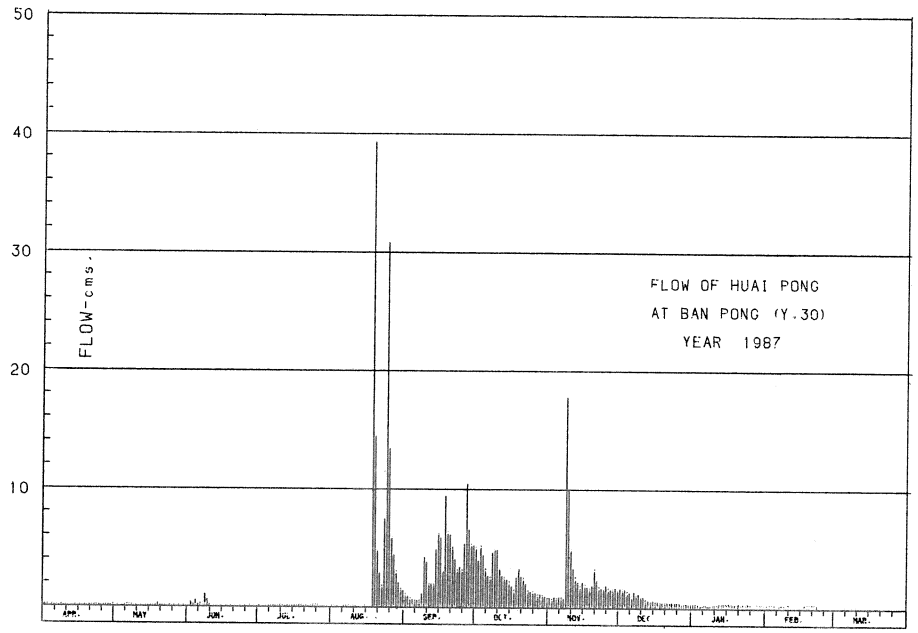
HUAI PONG AT BAN PONG, LAMPANG (Y.30)

LOCATION	LAT. 18-42-59 N., LONG. 99-57-40 E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY, TAMBON MAE PONG, AMPHOE NGAO, LAMPANG.
DRAINAGE AREA	96 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 25 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+6.62 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.39	0.35	0.32	0.34	0.39	0.68	1.12	0.61	0.75	0.47	0.44	0.37	
2	0.39	0.35	0.48	0.35	0.38	0.63	1.02	0.60	0.76	0.45	0.46	0.37	
3	0.38	0.33	0.41	0.35	0.38	0.61	1.13	0.62	0.74	0.44	0.46	0.36	
4	0.37	0.33	0.53	0.35	0.39	0.56	1.06	0.61	0.72	0.41	0.45	0.36	
5	0.38	0.37	0.40	0.35	0.38	0.56	0.96	0.62	0.70	0.40	0.44	0.37	
6	0.37	0.41	0.44	0.36	0.37	0.54	0.90	0.62	0.65	0.39	0.41	0.38	
7	0.38	0.41	0.47	0.36	0.38	0.56	0.89	0.59	0.71	0.41	0.44	0.36	
8	0.38	0.37	0.65	0.37	0.38	0.67	1.08	1.85	0.70	0.40	0.44	0.37	
9	0.37	0.36	0.55	0.37	0.38	1.05	1.11	1.46	0.67	0.42	0.43	0.38	
10	0.37	0.41	0.42	0.38	0.40	1.01	1.10	1.11	0.67	0.45	0.46	0.39	
11	0.36	0.34	0.43	0.37	0.38	0.82	0.97	0.96	0.63	0.43	0.42	0.40	
12	0.36	0.35	0.38	0.37	0.39	0.81	0.90	0.89	0.58	0.47	0.40	0.39	
13	0.36	0.35	0.33	0.37	0.38	0.81	0.89	0.83	0.55	0.46	0.39	0.37	
14	0.36	0.33	0.32	0.37	0.38	1.10	0.86	0.79	0.53	0.48	0.43	0.38	
15	0.35	0.33	0.32	0.37	0.39	1.21	0.84	0.83	0.55	0.46	0.44	0.44	
16	0.35	0.32	0.33	0.37	0.40	1.18	0.78	0.81	0.53	0.49	0.42	0.40	
17	0.35	0.34	0.32	0.38	0.39	0.94	0.74	0.77	0.53	0.48	0.45	0.38	
18	0.35	0.33	0.32	0.39	2.55	1.42	0.88	0.76	0.52	0.44	0.46	0.38	
19	0.35	0.44	0.32	0.39	1.69	1.22	0.96	0.79	0.50	0.44	0.46	0.41	
20	0.35	0.35	0.31	0.38	1.10	1.20	0.89	0.96	0.52	0.44	0.47	0.37	
21	0.37	0.36	0.32	0.38	0.92	1.12	0.88	0.85	0.51	0.42	0.46	0.38	
22	0.36	0.35	0.31	0.38	0.79	1.03	0.81	0.78	0.51	0.46	0.44	0.38	
23	0.39	0.35	0.31	0.38	1.29	0.95	0.73	0.76	0.51	0.44	0.40	0.39	
24	0.35	0.35	0.32	0.41	2.31	0.9	0.71	0.78	0.50	0.48	0.43	0.38	
25	0.35	0.34	0.33	0.41	1.64	0.95	0.72	0.79	0.50	0.45	0.39	0.40	
26	0.34	0.34	0.33	0.41	1.19	1.14	0.69	0.76	0.50	0.45	0.40	0.37	
27	0.37	0.33	0.37	0.42	1.06	1.50	0.67	0.74	0.45	0.45	0.39	0.37	
28	0.35	0.35	0.35	0.40	0.94	1.23	0.67	0.75	0.46	0.46	0.38	0.39	
29	0.36	0.33	0.35	0.39	0.82	1.14	0.66	0.76	0.47	0.45	0.39	0.38	
30	0.40	0.36	0.34	0.39	0.75	1.13	0.63	0.77	0.46	0.45		0.37	
31		0.34		0.40	0.72		0.61		0.45	0.43		0.38	
MEAN	0.37	0.35	0.38	0.38	0.78	0.96	0.87	0.83	0.58	0.44	0.43	0.38	
MAX	0.40	0.44	0.65	0.42	2.55	1.50	1.13	1.85	0.76	0.49	0.47	0.44	2.55
MIN	0.34	0.32	0.31	0.34	0.37	0.54	0.61	0.59	0.45	0.39	0.38	0.36	0.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.25 M (A.D), AT 12.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.02 M (A.D)
LEFT BANK ELEVATION 9.04 M (A.D)
RIGHT BANK ELEVATION 8.81 M (A.D), DRAINAGE AREA 96 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.10	0.06	0.09	0.16	1.15	5.10	0.80	1.58	0.33	0.26	0.13	
2	0.16	0.10	0.35	0.10	0.14	0.90	3.93	0.75	1.64	0.28	0.31	0.13	
3	0.14	0.07	0.19	0.10	0.14	0.80	5.22	0.85	1.51	0.26	0.31	0.11	
4	0.13	0.07	0.50	0.10	0.16	0.61	4.39	0.80	1.38	0.19	0.28	0.11	
5	0.14	0.13	0.17	0.10	0.14	0.61	3.28	0.85	1.25	0.17	0.26	0.13	
6	0.13	0.19	0.26	0.11	0.13	0.54	2.65	0.85	1.00	0.16	0.19	0.14	
7	0.14	0.19	0.33	0.11	0.14	0.61	2.58	0.71	1.31	0.19	0.26	0.11	
8	0.14	0.13	1.00	0.13	0.14	1.10	4.62	17.85	1.25	0.17	0.26	0.13	
9	0.13	0.11	0.58	0.13	0.14	4.27	4.98	10.00	1.10	0.22	0.24	0.14	
10	0.13	0.19	0.22	0.14	0.17	3.81	4.85	4.98	1.10	0.28	0.31	0.16	
11	0.11	0.09	0.24	0.13	0.14	2.05	3.39	3.28	0.90	0.24	0.22	0.17	
12	0.11	0.10	0.14	0.13	0.16	1.97	2.65	2.58	0.68	0.33	0.17	0.16	
13	0.11	0.10	0.07	0.13	0.14	1.97	2.58	2.13	0.58	0.31	0.16	0.13	
14	0.11	0.07	0.06	0.13	0.14	4.85	2.35	1.84	0.50	0.35	0.24	0.14	
15	0.10	0.07	0.06	0.13	0.16	6.25	2.20	2.13	0.58	0.31	0.26	0.26	
16	0.10	0.06	0.07	0.13	0.17	5.85	1.77	1.97	0.50	0.38	0.22	0.17	
17	0.10	0.09	0.06	0.14	0.16	3.07	1.51	1.70	0.50	0.35	0.28	0.14	
18	0.10	0.07	0.06	0.16	39.50	9.40	2.50	1.64	0.47	0.26	0.31	0.14	
19	0.10	0.26	0.06	0.16	14.40	6.40	3.28	1.84	0.40	0.26	0.31	0.19	
20	0.10	0.10	0.04	0.14	4.85	6.10	2.58	3.28	0.47	0.26	0.33	0.13	
21	0.13	0.11	0.06	0.14	2.86	5.10	2.50	2.28	0.43	0.22	0.31	0.14	
22	0.11	0.10	0.04	0.14	1.84	4.04	1.97	1.77	0.43	0.31	0.26	0.14	
23	0.16	0.10	0.04	0.14	7.45	3.18	1.45	1.64	0.43	0.26	0.17	0.16	
24	0.10	0.10	0.06	0.19	30.95	3.39	1.31	1.77	0.40	0.35	0.24	0.14	
25	0.10	0.09	0.07	0.19	13.40	3.18	1.38	1.84	0.40	0.28	0.16	0.17	
26	0.09	0.09	0.07	0.19	5.98	5.35	1.20	1.64	0.40	0.28	0.17	0.13	
27	0.13	0.07	0.13	0.22	4.39	10.60	1.10	1.51	0.28	0.28	0.16	0.13	
28	0.10	0.10	0.10	0.17	3.07	6.55	1.10	1.58	0.31	0.31	0.14	0.16	
29	0.11	0.07	0.10	0.16	2.05	5.35	1.05	1.64	0.33	0.28	0.16	0.14	
30	0.17	0.11	0.09	0.16	1.58	5.22	0.90	1.70	0.31	0.28		0.13	
31		0.09		0.17	1.38		0.80		0.28	0.24		0.14	
TOTAL	3.64	3.32	5.28	4.36	136.23	114.27	81.17	78.20	22.70	8.39	6.95	4.50	469.01 CMSDAY
MEAN	0.12	0.11	0.18	0.14	4.39	3.81	2.62	2.61	0.73	0.27	0.24	0.15	1.28 CMS
MAX	0.17	0.26	1.00	0.22	39.50	10.60	5.22	17.85	1.64	0.38	0.33	0.26	39.50 CMS
MIN	0.09	0.06	0.04	0.09	0.13	0.54	0.80	0.71	0.28	0.16	0.14	0.11	0.04 CMS
RUNOFF	0.314	0.287	0.456	0.377	11.770	9.873	7.013	6.756	1.961	0.725	0.600	0.389	40.522 MCM

MOMENTARY PEAK 71.00 CMS, AT 3.25 M (A.D), AT 12.00 HOURS, ON AUG 18, 1987
RUNOFF YIELD 13.35 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 739.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

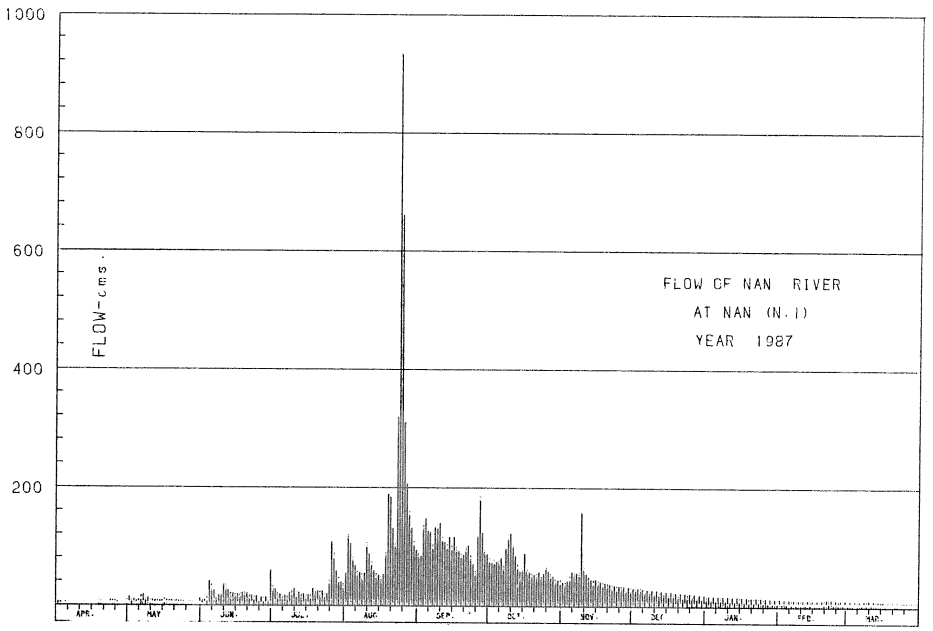
NAN RIVER AT NAN, NAN (N.1)

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	+192.17 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON WEST SIDE OF AUTOMATIC GAGE BUILDING.
ELEVATION	+199.204 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1922-1956, 1962 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1956, 1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1956, 1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 152 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	192.68	192.91	192.77	193.32	193.42	193.67	193.60	193.30	193.27	193.01	192.86	192.81	
2	192.68	192.87	192.78	193.22	193.94	193.63	193.56	193.30	193.27	192.99	192.86	192.80	
3	192.68	192.81	192.91	193.09	193.82	194.07	193.59	193.32	193.27	192.99	192.85	192.79	
4	192.67	192.76	193.47	193.03	193.61	194.16	193.57	193.38	193.27	192.98	192.85	192.79	
5	192.67	192.79	193.36	192.99	193.54	194.06	193.58	193.47	193.25	192.98	192.84	192.78	
6	192.67	192.97	193.17	192.98	193.48	193.98	193.60	193.45	193.25	192.98	192.84	192.77	
7	192.67	193.01	193.04	192.96	193.45	193.80	193.54	193.44	193.22	192.98	192.83	192.81	
8	192.67	192.95	192.98	193.09	193.41	194.04	193.74	193.48	193.21	192.97	192.83	192.80	
9	192.67	192.87	193.13	193.16	193.43	194.08	193.94	194.25	193.21	192.97	192.82	192.81	
10	192.68	192.82	193.36	193.24	193.83	194.10	193.96	193.88	193.20	192.97	192.81	192.83	
11	192.68	192.79	193.38	193.15	193.66	193.91	193.83	193.69	193.20	192.96	192.81	192.82	
12	192.67	192.78	193.19	193.10	193.57	193.84	193.63	193.60	193.18	192.95	192.82	192.80	
13	192.67	192.76	193.08	193.07	193.50	193.81	193.55	193.53	193.17	192.95	192.82	192.79	
14	192.67	192.76	193.07	193.04	193.42	193.91	193.48	193.51	193.15	192.95	192.82	192.78	
15	192.66	192.77	193.05	193.01	193.39	193.79	193.53	193.54	193.15	192.94	192.81	192.78	
16	192.66	192.84	193.04	193.01	193.37	193.91	193.67	193.50	193.14	192.93	192.80	192.77	
17	192.67	192.78	193.06	193.01	193.40	193.77	193.51	193.47	193.14	192.93	192.81	192.77	
18	192.80	192.77	193.08	193.24	193.68	193.70	193.46	193.44	193.12	192.93	192.79	192.76	
19	192.71	192.76	193.14	193.22	194.49	193.67	193.43	193.42	193.11	192.91	192.81	192.75	
20	192.70	192.78	193.07	193.16	194.52	193.65	193.40	193.41	193.10	192.91	192.85	192.75	
21	192.69	192.76	193.01	193.15	194.03	193.76	193.42	193.39	193.09	192.91	192.85	192.77	
22	192.73	192.74	192.98	193.15	193.82	193.79	193.46	193.37	193.08	192.91	192.88	192.76	
23	192.77	192.73	192.97	193.07	195.40	193.64	193.42	193.35	193.08	192.91	192.85	192.75	
24	192.79	192.71	192.95	193.05	198.45	193.55	193.43	193.34	193.07	192.90	192.84	192.74	
25	192.75	192.70	192.92	193.33	197.18	193.49	193.55	193.33	193.07	192.89	192.83	192.74	
26	192.70	192.70	192.90	193.84	195.38	193.92	193.49	193.32	193.06	192.89	192.82	192.74	
27	192.68	192.71	192.90	193.67	194.63	194.46	193.43	193.32	193.06	192.88	192.82	192.74	
28	192.67	192.69	192.90	193.48	194.26	193.97	193.38	193.31	193.04	192.87	192.82	192.73	
29	192.69	192.69	192.89	193.36	194.03	193.72	193.34	193.30	193.03	192.87	192.82	192.73	
30	192.78	192.74	193.78	193.30	193.85	193.66	193.33	193.28	193.03	192.86		192.73	
31		192.84		193.27	193.72		193.33		193.02	192.87		192.73	
MEAN	192.70	192.79	193.08	193.19	194.12	193.85	193.54	193.46	193.15	192.93	192.83	192.77	
MAX	192.80	193.01	193.78	193.84	198.45	194.46	193.96	194.25	193.27	193.01	192.88	192.83	198.45
MIN	192.66	192.69	192.77	192.96	193.37	193.49	193.33	193.28	193.02	192.86	192.79	192.73	192.66

ANNUAL MAX MOMENTARY GAGE HEIGHT 198.58 M (MSL), AT 9.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 192.17 M (MSL), RIVER BED 190.38 M (MSL)
LEFT BANK ELEVATION 199.00 M (MSL)
RIGHT BANK ELEVATION 199.62 M (MSL), DRAINAGE AREA 4609 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.80	13.90	8.57	33.10	54.30	88.70	81.00	40.00	30.35	17.95	11.90	9.90	
2	5.80	12.30	8.88	27.60	120.00	84.30	72.40	40.00	30.35	17.10	11.90	9.50	
3	5.80	9.90	13.90	21.55	105.40	136.25	78.85	42.60	30.35	17.10	11.50	9.19	
4	5.50	8.26	41.35	18.85	82.10	147.50	74.55	50.40	30.35	16.70	11.50	9.19	
5	5.50	9.19	35.30	17.10	68.10	135.00	76.70	57.55	29.25	16.70	11.10	8.88	
6	5.50	16.30	25.15	16.70	58.20	125.00	81.00	56.25	29.25	16.70	11.10	8.57	
7	5.50	17.95	19.30	15.90	56.25	103.00	68.10	55.60	27.60	16.70	10.70	9.90	
8	5.50	15.50	16.70	21.55	53.65	132.50	96.40	58.20	27.05	16.30	10.70	9.50	
9	5.50	12.30	23.35	24.70	54.95	137.50	120.00	158.75	27.05	16.30	10.30	9.90	
10	5.80	10.30	35.30	28.70	106.60	140.00	122.50	66.20	26.50	16.30	9.90	10.70	
11	5.80	9.19	36.40	24.25	87.60	116.25	106.60	53.90	26.50	15.90	9.90	10.30	
12	5.50	8.88	26.05	22.00	74.55	107.80	84.30	48.50	25.60	15.50	10.30	9.50	
13	5.50	8.26	21.10	20.65	59.50	104.20	70.25	44.65	25.15	15.50	10.30	9.19	
14	5.50	8.26	20.65	19.30	54.30	116.25	58.20	43.55	24.25	15.50	10.30	8.88	
15	5.20	8.57	19.75	17.95	51.70	101.90	65.95	45.20	24.25	15.10	9.90	8.88	
16	5.20	11.10	19.30	17.95	49.10	116.25	88.70	43.00	23.80	14.70	9.50	8.57	
17	5.50	8.88	20.20	17.95	53.00	99.70	61.65	41.35	23.80	14.70	9.90	8.57	
18	9.50	8.57	21.10	28.70	89.80	92.00	56.90	39.70	22.90	14.70	9.19	8.26	
19	6.71	8.26	23.80	27.60	188.75	88.70	54.95	38.60	22.45	13.90	9.90	7.95	
20	6.40	8.88	20.65	24.70	192.50	86.50	53.00	38.05	22.00	13.90	11.50	7.95	
21	6.10	8.26	17.95	24.25	131.25	98.60	54.30	36.95	21.55	13.90	11.50	8.57	
22	7.33	7.64	16.70	24.25	105.40	101.90	56.90	35.85	21.10	13.90	12.70	8.26	
23	8.57	7.33	16.30	20.65	319.00	85.40	54.30	34.75	21.10	13.90	11.50	7.95	
24	9.19	6.71	15.50	19.75	937.50	70.25	54.95	34.20	20.65	13.50	11.10	7.64	
25	7.95	6.40	14.30	43.90	660.90	58.85	70.25	33.65	20.65	13.10	10.70	7.64	
26	6.40	6.40	13.50	107.80	315.80	117.50	58.85	33.10	20.20	13.10	10.30	7.64	
27	5.80	6.71	13.50	88.70	206.40	185.00	54.95	33.10	20.20	12.70	10.30	7.64	
28	5.50	6.10	13.50	58.20	160.00	123.75	50.40	32.55	19.30	12.30	10.30	7.33	
29	6.10	6.10	13.10	47.80	131.25	94.20	45.20	32.00	18.85	12.30	10.30	7.33	
30	8.88	7.64	59.70	40.00	109.00	87.60	43.90	30.90	18.85	11.90		7.33	
31		11.10		37.00	94.20		43.90		18.40	12.30		7.33	
TOTAL	188.83	295.14	650.85	959.10	4831.05	3282.35	2159.90	1399.10	749.65	460.15	309.99	267.94	15554.05 CMSDAY
MEAN	6.29	9.52	21.69	30.94	155.84	109.41	69.67	46.64	24.18	14.84	10.69	8.64	42.50 CMS
MAX	9.50	17.95	59.70	107.80	937.50	185.00	122.50	158.75	30.35	17.95	12.70	10.70	937.50 CMS
MIN	5.20	6.10	8.57	15.90	49.10	58.85	43.90	30.90	18.40	11.90	9.19	7.33	5.20 CMS
RUNOFF	16.315	25.500	56.233	82.866	417.403	283.595	186.615	120.882	64.770	39.757	26.783	23.150	1343.870 MCM

MOMENTARY PEAK 967.40 CMS, AT 198.58 M (MSL), AT 9.00 HOURS, ON AUG 24, 1987
RUNOFF YIELD 9.22 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 209.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

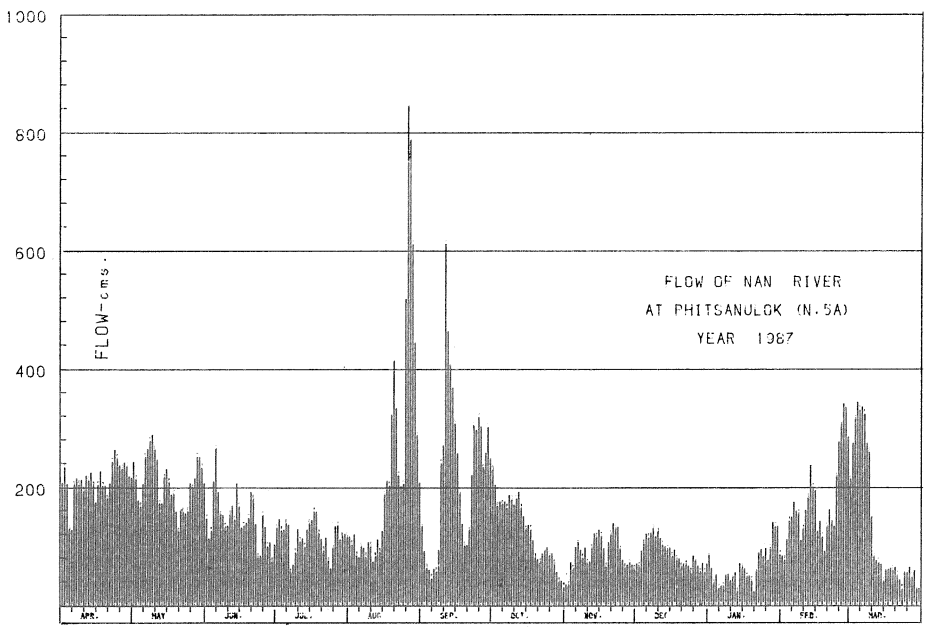
NAN RIVER AT PHITSANULOK, PHITSANULOK (N.5A)

LOCATION	LAT. 16°-49'-15" N., LONG. 100°-15'-49" E., ON LEFT BANK NEAR THE 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	+34.50 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+45.856 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1963 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971. STAGE-DISCHARGE RELATION DEFINED BY 54 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	36.98	37.30	36.44	36.28	36.05	36.29	37.24	34.98	35.48	35.77	35.65	37.10	
2	37.28	37.10	36.02	36.36	35.98	35.76	36.94	35.06	35.51	35.38	35.66	37.57	
3	36.96	36.68	36.23	36.24	36.09	35.48	36.65	35.51	35.76	35.10	36.00	37.96	
4	36.26	36.65	37.00	36.18	35.75	35.34	36.66	35.45	36.00	35.23	36.40	38.13	
5	36.18	36.96	37.55	36.36	35.62	35.25	36.68	35.85	36.10	34.99	36.40	38.08	
6	37.01	37.43	36.82	36.27	35.94	35.36	36.66	36.03	36.11	34.94	36.72	38.07	
7	37.05	37.49	36.50	35.37	35.83	35.40	36.62	35.79	36.12	35.03	36.50	38.03	
8	37.02	37.66	36.43	35.46	35.73	35.79	36.77	35.70	36.27	35.23	36.52	37.57	
9	37.03	37.69	36.30	35.82	35.94	37.33	36.76	35.83	36.05	35.35	35.98	37.50	
10	36.91	37.54	36.25	36.19	35.95	37.54	36.61	35.58	36.23	35.09	36.26	36.40	
11	37.09	37.33	36.51	36.04	35.52	40.04	36.77	35.53	36.02	35.28	36.51	35.72	
12	37.08	36.69	36.59	36.02	35.73	39.00	36.82	35.90	35.97	35.28	36.79	35.55	
13	37.14	36.63	36.42	35.93	36.00	38.65	36.62	36.11	35.86	34.89	37.25	35.60	
14	37.00	37.12	36.97	36.18	35.83	38.32	36.41	36.12	35.88	35.49	36.97	35.47	
15	36.65	37.19	36.64	36.36	36.16	37.89	36.25	36.18	35.83	35.48	36.85	35.17	
16	37.01	37.05	36.22	36.35	36.84	37.42	36.26	36.14	35.73	35.37	36.22	35.34	
17	37.16	36.78	36.32	36.56	37.01	36.86	36.26	35.82	35.79	35.27	36.33	35.46	
18	37.00	36.86	36.30	36.49	37.00	36.28	35.98	35.50	35.66	35.21	36.12	35.38	
19	36.93	36.49	36.45	36.18	37.96	35.95	35.71	35.94	35.59	35.19	35.76	35.43	
20	36.78	36.22	36.82	36.01	38.70	35.88	35.58	36.17	35.50	34.77	36.30	35.40	
21	36.97	36.50	36.78	35.86	38.05	36.24	35.59	36.29	35.48	35.36	36.52	35.31	
22	37.36	36.56	36.28	36.03	37.15	37.10	35.71	36.27	35.55	35.72	36.35	35.11	
23	37.48	36.46	35.71	35.63	36.92	37.86	35.86	36.23	35.43	35.88	36.24	34.98	
24	37.41	36.57	35.66	35.37	37.02	37.75	35.84	35.87	35.38	35.64	37.13	35.29	
25	37.25	36.97	36.49	35.89	39.37	37.98	35.77	35.56	35.66	35.91	37.59	35.39	
26	37.26	36.95	36.23	36.24	41.49	37.80	35.71	35.48	35.65	35.56	37.89	35.40	
27	37.29	37.05	35.94	36.32	41.13	37.27	35.57	35.45	35.43	35.90	38.11	35.29	
28	37.30	37.43	35.94	36.00	40.04	37.43	35.29	35.59	35.37	36.31	38.12	35.32	
29	37.08	37.37	35.62	36.14	38.87	37.84	35.16	35.45	35.49	36.31	37.66	34.98	
30	37.12	37.27	35.90	36.10	37.72	37.35	35.08	35.45	35.37	36.24		34.87	
31		36.97		36.13	36.98		35.03		35.48	35.77		35.12	
MEAN	37.03	37.00	36.38	36.08	37.11	37.01	36.16	35.76	35.73	35.45	36.65	36.06	
MAX	37.48	37.69	37.55	36.56	41.49	40.04	37.24	36.29	36.27	36.31	38.12	38.13	41.49
MIN	36.18	36.22	35.62	35.37	35.52	35.25	35.03	34.98	35.37	34.77	35.65	34.87	34.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 41.65 M (MSL), AT 18.00 HOURS, ON AUG 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 34.50 M (MSL), RIVER BED 32.92 M (MSL)
LEFT BANK ELEVATION 45.13 M (MSL)
RIGHT BANK ELEVATION 45.40 M (MSL), DRAINAGE AREA 25286 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	208.0	243.5	154.0	138.0	116.5	139.0	236.6	35.8	71.0	92.8	83.8	221.0	
2	241.2	221.0	113.8	146.0	110.3	92.0	204.0	40.9	73.2	63.5	84.5	274.6	
3	206.0	178.0	133.0	134.0	120.1	71.0	175.0	73.2	92.0	43.5	112.0	323.0	
4	136.0	175.0	210.0	128.2	91.3	60.5	176.0	68.8	112.0	52.2	150.0	344.3	
5	128.2	206.0	272.3	146.0	81.5	53.7	178.0	99.2	121.0	36.4	150.0	338.0	
6	211.1	258.5	192.0	137.0	106.9	62.0	176.0	114.7	121.9	33.4	182.0	336.7	
7	215.5	265.4	160.0	62.7	97.6	65.0	172.0	94.3	122.8	38.9	160.0	331.7	
8	212.2	285.5	153.0	69.5	89.8	94.3	187.0	87.5	137.0	52.2	162.0	274.6	
9	213.3	289.2	140.0	96.7	106.9	247.0	186.0	97.6	116.5	61.2	110.3	266.5	
10	201.0	271.1	135.0	129.1	107.8	271.1	171.0	78.5	133.0	42.8	136.0	150.0	
11	219.9	247.0	161.0	115.6	74.0	617.4	187.0	74.7	113.8	56.0	161.0	89.0	
12	218.8	179.0	169.0	113.8	89.8	464.0	192.0	103.5	109.5	56.0	189.0	76.2	
13	225.4	173.0	152.0	106.1	112.0	412.4	172.0	121.9	100.1	30.4	237.7	80.0	
14	210.0	223.2	207.0	128.2	97.6	368.6	151.0	122.8	101.8	71.8	207.0	70.3	
15	175.0	230.9	174.0	146.0	126.4	314.2	135.0	128.2	97.6	71.0	195.0	48.0	
16	211.1	215.5	132.0	145.0	194.0	257.3	136.0	124.6	89.8	62.7	132.0	60.5	
17	227.6	188.0	142.0	166.0	211.1	196.0	136.0	96.7	94.3	55.2	143.0	69.5	
18	210.0	196.0	140.0	159.0	210.0	138.0	110.3	72.5	84.5	50.7	122.8	63.5	
19	203.0	159.0	155.0	128.2	323.0	107.8	88.2	106.9	79.3	49.3	92.0	67.3	
20	188.0	132.0	192.0	112.9	419.8	101.8	78.5	127.3	72.5	23.5	140.0	65.0	
21	207.0	160.0	188.0	100.1	334.2	134.0	79.3	139.0	71.0	62.0	162.0	58.3	
22	250.4	166.0	138.0	114.7	226.5	221.0	88.2	137.0	76.2	89.0	145.0	44.2	
23	264.2	156.0	88.2	82.3	202.0	310.5	100.1	133.0	67.3	101.8	134.0	35.8	
24	256.2	167.0	84.5	62.7	212.2	296.8	98.4	100.9	63.5	83.0	224.3	56.8	
25	237.7	207.0	159.0	102.6	518.6	325.5	92.8	77.0	84.5	104.4	276.9	64.2	
26	238.9	205.0	133.0	134.0	850.8	303.0	88.2	71.0	83.8	77.0	314.2	65.0	
27	242.4	215.5	106.9	142.0	787.8	240.1	77.7	68.8	67.3	103.5	341.8	56.8	
28	243.5	258.5	106.9	112.0	617.4	258.5	56.8	79.3	62.7	141.0	343.0	59.0	
29	218.8	251.5	81.5	124.6	444.8	308.0	47.4	68.8	71.8	141.0	285.5	35.8	
30	223.2	240.1	103.5	121.0	293.0	249.2	42.2	68.8	62.7	134.0		29.2	
31		207.0		123.7	208.0		38.9		71.0	92.8		44.8	
TOTAL	6443.6	6570.4	4476.6	3727.7	7581.7	6779.7	4057.6	2813.2	2825.4	2173.0	5176.8	4099.6	56725.3 CMSDAY
MEAN	214.8	211.9	149.2	120.2	244.6	226.0	130.9	93.8	91.1	70.1	178.5	132.2	155.0 CMS
MAX	264.2	289.2	272.3	166.0	850.8	617.4	236.6	139.0	137.0	141.0	343.0	344.3	850.8 CMS
MIN	128.2	132.0	81.5	62.7	74.0	53.7	38.9	35.8	62.7	23.5	83.8	29.2	23.5 CMS
RUNOFF	556.73	567.68	386.78	322.07	655.06	585.77	350.58	243.06	244.11	187.75	447.28	354.21	4901.07 MCM

MOMENTARY PEAK 878.75 CMS, AT 41.65 M (MSL), AT 18.00 HOURS, ON AUG 26, 1987

RUNOFF YIELD 6.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 34.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

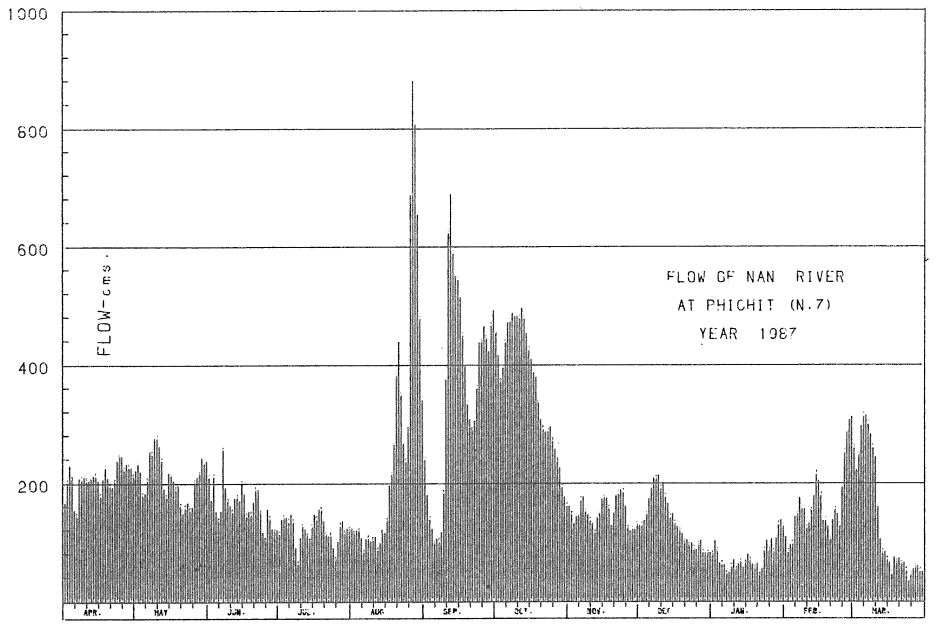
NAN RIVER AT PHICHIT, PHICHIT (N.7)

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	+26.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF PHICHIT PHITTHAYA 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	28.49	29.12	29.05	27.87	27.94	29.35	31.15	28.41	28.00	27.38	27.73	29.55	
2	28.95	29.29	28.54	28.14	27.89	28.65	30.83	28.30	28.07	27.63	27.44	29.12	
3	29.20	29.10	29.06	28.23	27.89	28.21	30.53	28.04	28.11	27.47	27.54	29.42	
4	29.01	28.71	28.30	28.18	27.94	27.92	30.67	28.26	28.30	27.10	27.65	29.84	
5	28.33	28.69	28.17	28.16	27.71	27.65	31.03	28.21	28.57	27.15	28.19	30.04	
6	28.28	28.99	28.31	28.25	27.43	27.69	31.24	28.61	28.85	27.06	28.31	30.00	
7	28.97	29.44	29.51	28.15	27.69	27.70	31.29	28.61	28.97	26.89	28.59	29.92	
8	29.01	29.45	28.80	27.47	27.77	27.84	31.35	28.35	29.01	26.85	28.42	29.71	
9	28.99	29.66	28.58	27.15	27.63	28.75	31.36	28.23	29.03	27.09	28.35	29.56	
10	28.99	29.71	28.43	27.71	27.74	30.52	31.32	28.18	28.84	27.17	28.01	29.34	
11	28.92	29.52	28.36	28.04	27.73	32.27	31.33	28.05	28.89	27.01	28.05	28.47	
12	29.04	29.34	28.58	27.92	27.49	32.66	31.41	27.90	28.68	27.08	28.37	27.67	
13	29.02	28.78	28.67	27.82	27.58	32.06	31.33	28.16	28.47	27.19	28.63	27.43	
14	29.08	28.67	28.53	27.71	27.91	31.77	31.11	28.34	28.24	27.00	29.11	27.37	
15	28.92	29.07	28.93	28.04	27.83	31.77	30.94	28.56	28.26	27.16	28.93	27.25	
16	28.69	29.09	28.68	28.24	28.17	31.53	30.78	28.65	28.11	27.31	28.71	27.11	
17	28.95	28.92	28.27	28.21	28.84	31.12	30.66	28.58	27.98	27.23	28.10	26.91	
18	29.21	28.82	28.30	28.35	29.09	30.69	30.55	28.43	27.94	27.07	28.19	27.23	
19	28.98	28.84	28.31	28.40	29.55	30.22	30.23	28.00	27.81	27.04	27.98	27.19	
20	28.89	28.48	28.50	28.10	30.61	29.94	29.94	28.33	27.67	27.09	27.75	27.21	
21	28.80	28.26	28.81	27.85	31.00	29.82	29.84	28.63	27.66	26.85	28.12	27.16	
22	28.96	28.45	28.76	27.75	30.34	29.92	29.75	28.74	27.59	26.96	28.40	27.11	
23	29.28	28.49	28.34	27.85	29.57	30.44	29.80	28.75	27.58	27.47	28.25	26.99	
24	29.42	28.39	27.85	27.47	29.32	30.99	29.83	28.77	27.52	27.64	28.07	26.60	
25	29.36	28.39	27.72	27.25	29.83	31.04	29.66	28.41	27.42	27.48	28.80	26.87	
26	29.18	28.95	28.35	27.62	32.68	31.19	29.48	28.01	27.61	27.68	29.47	26.95	
27	29.23	28.99	28.21	28.07	33.80	31.08	29.32	27.87	27.64	27.44	29.74	27.09	
28	29.23	29.11	27.92	28.10	33.39	30.88	29.16	27.98	27.42	27.70	29.99	27.03	
29	29.17	29.33	27.92	27.90	32.44	31.24	28.86	27.90	27.34	28.09	29.98	27.00	
30	29.06	29.30	27.90	27.94	31.32	31.38	28.61	28.09	27.40	28.12		26.87	
31		29.28		27.98	30.23		28.49		27.35	28.06		26.40	
MEAN	28.99	28.99	28.46	27.93	29.24	30.21	30.38	28.31	28.08	27.31	28.44	27.95	
MAX	29.42	29.71	29.51	28.40	33.80	32.66	31.41	28.77	29.03	28.12	29.99	30.04	33.80
MIN	28.28	28.26	27.72	27.15	27.43	27.65	28.49	27.87	27.34	26.85	27.44	26.40	26.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 33.82 M (MSL), AT 12.00 HOURS, ON AUG 27, 1987
ZERO GAGE AT BOTTOM ELEVATION 26.00 M (MSL), RIVER BED 24.94 M (MSL)
LEFT BANK ELEVATION 36.97 M (MSL)
RIGHT BANK ELEVATION 37.29 M (MSL), DRAINAGE AREA 29153 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	167.2	222.0	215.5	118.9	123.8	245.0	459.6	160.8	128.0	84.6	109.1	265.0	
2	206.5	239.0	171.2	139.2	120.3	180.0	416.1	152.0	133.6	102.1	88.8	222.0	
3	230.0	220.0	216.4	146.4	120.3	144.8	376.9	131.2	136.8	90.9	95.8	252.0	
4	211.9	184.9	152.0	142.4	123.8	122.4	395.1	148.8	152.0	65.0	103.5	296.8	
5	154.4	183.2	141.6	140.8	107.7	103.5	443.3	144.8	173.6	68.5	143.2	319.1	
6	150.4	210.1	152.8	148.0	88.1	106.3	471.8	176.8	197.5	62.2	152.8	314.7	
7	208.3	254.0	261.0	140.0	106.3	107.0	478.6	176.8	208.3	51.4	175.2	305.7	
8	211.9	255.0	193.0	90.9	111.9	116.8	487.5	156.0	211.9	49.0	161.6	282.3	
9	210.1	276.7	174.4	68.5	102.1	188.5	489.0	146.4	213.7	64.3	156.0	266.0	
10	210.1	282.3	162.4	107.7	109.8	375.6	483.0	142.4	196.6	69.9	128.8	244.0	
11	203.8	262.0	156.8	131.2	109.1	627.2	484.5	132.0	201.1	58.7	132.0	165.6	
12	214.6	244.0	174.4	122.4	92.3	689.6	496.5	121.0	182.4	63.6	157.6	104.9	
13	212.8	191.2	181.6	115.4	98.6	594.0	484.5	140.8	165.6	71.3	178.4	88.1	
14	218.2	181.6	170.4	107.7	121.7	550.5	454.2	155.2	147.2	58.0	221.0	83.9	
15	203.8	217.3	204.7	131.2	116.1	550.5	431.0	172.8	148.8	69.2	204.7	75.5	
16	183.2	219.1	182.4	147.2	141.6	514.5	409.4	180.0	136.8	79.7	184.9	65.7	
17	206.5	203.8	149.6	144.8	196.6	455.5	393.8	174.4	126.6	74.1	136.0	52.6	
18	231.0	194.8	152.0	156.0	219.1	397.7	379.5	162.4	123.8	62.9	143.2	74.1	
19	209.2	196.6	152.8	160.0	265.0	339.4	340.6	128.0	114.7	60.8	126.6	71.3	
20	201.1	166.4	168.0	136.0	387.3	308.0	308.0	154.4	104.9	64.3	110.5	72.7	
21	193.0	148.8	193.9	117.5	439.2	294.6	296.8	178.4	104.2	49.0	137.6	69.2	
22	207.4	164.0	189.4	110.5	353.8	305.7	286.7	187.6	99.3	55.6	160.0	65.7	
23	238.0	167.2	155.2	117.5	267.0	365.8	292.3	188.5	98.6	90.9	148.0	57.4	
24	252.0	159.2	117.5	90.9	242.0	437.8	295.7	190.3	94.4	102.8	133.6	34.0	
25	246.0	159.2	108.4	75.5	295.7	444.6	276.7	160.8	87.4	91.6	193.0	50.2	
26	228.0	206.5	156.0	101.4	692.8	465.0	258.0	128.8	100.7	105.6	257.0	55.0	
27	233.0	210.1	144.8	133.6	881.0	450.1	242.0	118.9	102.8	88.8	285.6	64.3	
28	233.0	221.0	122.4	136.0	811.3	422.9	226.0	126.6	87.4	107.0	313.5	60.1	
29	227.0	243.0	122.4	121.0	654.4	471.8	198.4	121.0	81.8	135.2	312.4	58.0	
30	216.4	240.0	121.0	123.8	483.0	492.0	176.8	135.2	86.0	137.6		50.2	
31		238.0		126.6	340.6		167.2		82.5	132.8		23.0	
TOTAL	6318.8	6561.0	4964.0	3849.0	8322.3	10867.1	11399.5	4593.1	4229.0	2467.4	4850.4	4209.1	72630.7 CMSDAY
MEAN	210.6	211.6	165.5	124.2	268.5	362.2	367.7	153.1	136.4	79.6	167.3	135.8	198.4 CMS
MAX	252.0	282.3	261.0	160.0	881.0	689.6	496.5	190.3	213.7	137.6	313.5	319.1	881.0 CMS
MIN	150.4	148.8	108.4	68.5	88.1	103.5	167.2	118.9	81.8	49.0	88.8	23.0	23.0 CMS
RUNOFF	545.94	566.87	428.89	332.55	719.05	938.92	984.92	396.84	365.39	213.18	419.07	363.67	6275.29 MCM

MOMENTARY PEAK 884.40 CMS, AT 33.82 M (MSL), AT 12.00 HOURS, ON AUG 27, 1987
RUNOFF YIELD 6.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 30.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

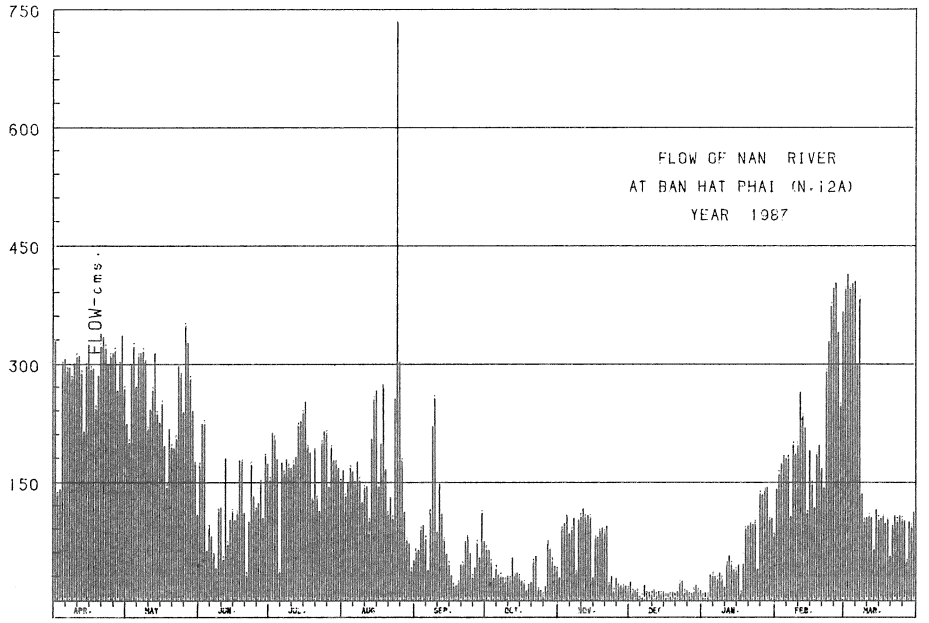
NAN RIVER AT BAN HAT PHAI, UTTARADIT (N.12A)

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	+69.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	+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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	72.45	71.85	71.52	71.39	71.45	70.58	70.62	70.15	70.06	69.77	71.27	72.80	
2	71.24	71.73	71.85	71.78	71.22	70.56	70.56	70.84	69.91	69.79	71.45	72.88	
3	71.27	72.29	71.88	71.76	71.34	70.84	70.44	70.88	69.86	69.80	71.51	72.81	
4	72.31	72.44	70.55	71.55	71.50	70.86	70.14	70.98	69.91	70.21	71.61	72.82	
5	72.33	72.13	70.86	70.30	71.44	70.74	70.36	70.76	69.67	70.26	71.56	72.86	
6	72.27	72.37	70.73	71.52	71.35	70.28	70.21	70.84	69.76	70.18	71.59	72.29	
7	72.27	72.37	70.52	71.45	71.53	71.04	70.24	70.94	69.99	70.19	70.96	72.74	
8	72.21	72.41	70.31	71.55	71.39	71.83	70.16	70.28	69.84	70.24	71.71	71.22	
9	72.30	72.32	71.05	71.51	71.12	72.07	70.15	70.92	69.81	70.19	71.60	70.94	
10	72.37	71.83	71.06	71.47	71.31	70.78	70.19	71.00	69.85	69.95	71.71	70.95	
11	72.35	71.96	70.48	71.54	71.30	71.32	70.18	71.05	69.89	70.41	72.09	71.00	
12	72.25	72.13	71.56	71.57	70.94	70.99	70.46	70.98	69.82	70.49	71.93	70.95	
13	71.79	72.37	70.67	71.86	71.73	70.72	70.23	70.97	69.84	70.41	71.82	70.61	
14	72.30	71.95	70.92	71.87	72.06	70.51	70.24	70.99	69.85	70.29	71.03	71.04	
15	72.40	71.86	71.05	71.96	72.10	70.41	70.22	70.15	69.83	70.32	71.63	70.97	
16	72.28	72.03	70.91	72.02	71.33	70.20	70.08	70.74	69.77	70.36	71.35	70.94	
17	72.26	71.67	71.03	71.68	71.69	70.04	70.10	70.72	69.76	69.86	71.06	71.01	
18	71.99	71.32	71.54	71.61	72.15	69.98	69.86	70.82	69.81	70.37	71.62	70.88	
19	72.21	71.81	71.55	71.18	71.46	70.10	70.02	70.83	69.81	70.85	71.68	70.97	
20	72.44	71.69	71.00	71.65	71.02	70.36	70.05	70.81	69.79	70.85	71.47	70.48	
21	72.48	71.65	70.25	71.20	71.18	70.41	70.44	70.85	69.84	70.93	71.28	70.89	
22	72.43	71.76	70.90	71.02	70.97	70.67	70.48	70.05	70.11	70.87	72.26	70.97	
23	72.29	72.28	71.53	71.72	72.04	70.75	69.95	70.18	70.08	70.92	72.45	70.95	
24	72.37	72.23	71.19	71.79	74.22	70.52	69.87	69.93	69.91	70.30	72.70	70.97	
25	72.37	71.94	71.06	71.80	72.31	70.22	69.80	70.14	69.86	71.25	72.79	70.96	
26	72.41	72.57	71.11	71.29	71.56	70.32	69.96	70.02	69.82	71.21	72.85	70.91	
27	72.10	72.44	71.36	71.68	71.01	70.69	70.69	69.98	69.77	71.29	72.51	70.44	
28	72.31	72.21	70.94	71.54	70.72	70.46	70.57	70.02	69.94	71.29	72.01	70.90	
29	72.49	71.95	71.60	71.54	70.64	71.03	70.46	69.97	69.99	70.95	72.64	70.88	
30	72.14	71.53	71.51	71.47	70.32	70.67	70.34	69.97	69.93	70.94		71.01	
31		70.98		71.37	70.42		70.33		69.87	70.77		71.06	
MEAN	72.22	72.00	71.08	71.54	71.45	70.67	70.24	70.56	69.87	70.50	71.80	71.33	
MAX	72.49	72.57	71.88	72.02	74.22	72.07	70.69	71.05	70.11	71.29	72.85	72.88	74.22
MIN	71.24	70.98	70.25	70.30	70.32	69.98	69.80	69.93	69.67	69.77	70.96	70.44	69.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 75.22 M (MSL), AT 17.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 69.00 M (MSL), RIVER BED 68.01 M (MSL)
LEFT BANK ELEVATION 83.76 M (MSL)
RIGHT BANK ELEVATION 83.90 M (MSL), DRAINAGE AREA 15718 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	328.5	224.0	174.8	156.7	165.0	66.0	70.0	29.0	23.6	8.8	141.4	398.0	
2	137.8	204.8	224.0	212.8	135.4	64.0	64.0	93.4	14.6	9.6	165.0	414.0	
3	141.4	299.2	228.8	209.6	150.2	93.4	52.6	97.8	12.4	10.0	173.4	400.0	
4	302.8	326.6	63.0	179.0	172.0	95.6	28.4	108.8	14.6	32.8	187.4	402.0	
5	306.4	271.1	95.6	40.0	163.6	82.4	45.4	84.6	5.4	36.8	180.4	410.0	
6	295.6	313.6	81.3	174.8	151.5	38.4	32.8	93.4	8.4	30.8	184.6	299.2	
7	295.6	313.6	60.0	165.0	176.2	115.4	35.2	104.4	19.4	31.4	106.6	386.0	
8	284.8	320.9	40.9	179.0	156.7	220.8	29.6	38.4	11.6	35.2	201.6	135.4	
9	301.0	304.6	116.5	173.4	124.2	260.9	29.0	102.2	10.4	31.4	186.0	104.4	
10	313.6	220.8	117.6	167.8	146.3	86.8	31.4	111.0	12.0	17.0	201.6	105.5	
11	310.0	242.2	56.2	177.6	145.0	147.6	30.8	116.5	13.6	49.9	264.3	111.0	
12	292.0	271.1	180.4	181.8	104.4	109.9	54.4	108.8	10.8	57.1	237.1	105.5	
13	214.4	313.6	75.0	225.6	204.8	80.2	34.4	107.7	11.6	49.9	219.2	69.0	
14	301.0	240.5	102.2	227.2	259.2	59.0	35.2	109.9	12.0	39.2	114.3	115.4	
15	319.0	225.6	116.5	242.2	266.0	49.9	33.6	29.0	11.2	41.8	190.2	107.7	
16	297.4	254.1	101.1	252.4	148.9	32.0	24.8	82.4	8.8	45.4	151.5	104.4	
17	293.8	195.8	114.3	197.2	198.6	22.4	26.0	80.2	8.4	12.4	117.6	112.1	
18	247.3	147.6	177.6	187.4	274.5	18.8	12.4	91.2	10.4	46.3	188.8	97.8	
19	284.8	217.6	179.0	130.8	166.4	26.0	21.2	92.3	10.4	94.5	197.2	107.7	
20	326.6	198.6	111.0	193.0	113.2	45.4	23.0	90.1	9.6	94.5	167.8	56.2	
21	334.2	193.0	36.0	133.0	130.8	49.9	52.6	94.5	11.6	103.3	142.6	98.9	
22	324.7	209.6	100.0	113.2	107.7	75.0	56.2	23.0	26.6	96.7	293.8	107.7	
23	299.2	297.4	176.2	203.2	255.8	83.5	17.0	30.8	24.8	102.2	328.5	105.5	
24	313.6	288.4	131.9	214.4	738.2	60.0	12.8	15.8	14.6	40.0	378.0	107.7	
25	313.6	238.8	117.6	216.0	302.8	33.6	10.0	28.4	12.4	139.0	396.0	106.6	
26	320.9	352.0	123.1	143.8	180.4	41.8	17.6	21.2	10.8	134.2	408.0	101.1	
27	266.0	326.6	152.8	197.2	112.1	77.0	77.0	18.8	8.8	143.8	340.0	52.6	
28	302.8	284.8	104.4	177.6	80.2	54.4	65.0	21.2	16.4	143.8	250.7	100.0	
29	336.1	240.5	186.0	177.6	72.0	114.3	54.4	18.2	19.4	105.5	366.0	97.8	
30	272.8	176.2	173.4	167.8	41.8	75.0	43.6	18.2	15.8	104.4		112.1	
31		108.8		154.1	50.8		42.7		12.8	85.7		117.6	
TOTAL	8677.7	7822.0	3717.2	5571.2	5494.7	2379.4	1163.1	2061.2	413.2	1973.4	6479.6	5148.9	50901.6 CMSDAY
MEAN	289.3	252.3	123.9	179.7	177.2	79.3	37.5	68.7	13.3	63.7	223.4	166.1	139.1 CMS
MAX	336.1	352.0	228.8	252.4	738.2	260.9	77.0	116.5	26.6	143.8	408.0	414.0	738.2 CMS
MIN	137.8	108.8	36.0	40.0	41.8	18.8	10.0	15.8	5.4	8.8	106.6	52.6	5.4 CMS
RUNOFF	749.75	675.82	321.17	481.35	474.74	205.58	100.49	178.09	35.70	170.50	559.84	444.86	4397.90 MCM

MOMENTARY PEAK 1026.91 CMS, AT 75.22 M (MSL), AT 17.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 8.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 65.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

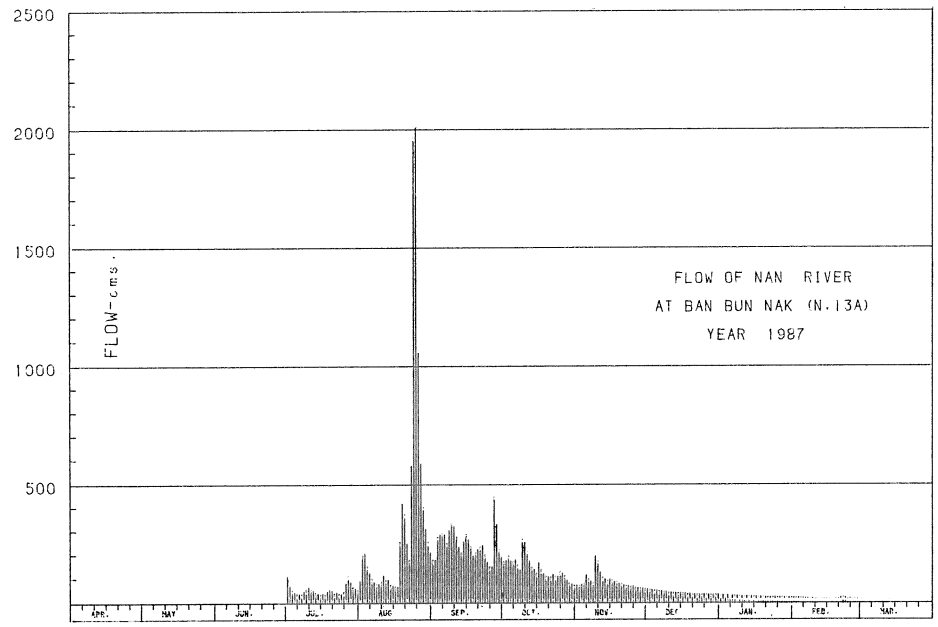
NAN RIVER AT BAN BUN NAK, NAN (N.13A)

LOCATION	LAT. 18°-33'-12" N., LONG. 100°-46'-08" E., ON RIGHT BANK ABOUT 2 KILOMETERS UPSTREAM FROM STATION N.13, BAN BUN NAK, AMPHOE SA, NAN.
DRAINAGE AREA	8,784 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+15.30 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STREAM GAGING BEGAN ON JULY1,1987. STAGE-DISCHARGE RELATION DEFINED BY 34 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	1.35	1.27	1.62	1.59	1.20	1.11	0.96	0.88	0.83	
2	*******	*******	*******	1.18	1.69	1.62	1.61	1.20	1.10	0.96	0.88	0.82	
3	*******	*******	*******	1.09	1.72	1.97	1.69	1.21	1.09	0.95	0.87	0.82	
4	*******	*******	*******	1.03	1.51	2.01	1.60	1.23	1.09	0.95	0.87	0.82	
5	*******	*******	*******	1.00	1.40	2.03	1.59	1.37	1.08	0.94	0.87	0.81	
6	*******	*******	*******	0.98	1.31	2.01	1.62	1.30	1.07	0.94	0.86	0.80	
7	*******	*******	*******	1.00	1.25	1.88	1.54	1.27	1.06	0.94	0.85	0.80	
8	*******	*******	*******	1.05	1.22	2.07	1.45	1.24	1.05	0.93	0.85	0.80	
9	*******	*******	*******	1.10	1.22	2.20	1.94	1.68	1.05	0.93	0.85	0.83	
10	*******	*******	*******	1.15	1.26	2.13	1.89	1.60	1.03	0.92	0.84	0.83	
11	*******	*******	*******	1.11	1.36	1.98	1.75	1.42	1.03	0.92	0.84	0.83	
12	*******	*******	*******	1.07	1.29	1.82	1.60	1.33	1.03	0.92	0.84	0.83	
13	*******	*******	*******	1.03	1.29	1.73	1.50	1.30	1.02	0.92	0.84	0.81	
14	*******	*******	*******	1.00	1.21	1.90	1.46	1.28	1.02	0.92	0.84	0.80	
15	*******	*******	*******	0.98	1.19	2.02	1.40	1.30	1.02	0.91	0.84	0.79	
16	*******	*******	*******	1.00	1.17	1.93	1.57	1.29	1.02	0.91	0.84	0.78	
17	*******	*******	*******	0.98	1.16	1.83	1.46	1.26	1.01	0.90	0.83	0.77	
18	*******	*******	*******	1.05	1.90	1.68	1.39	1.26	1.00	0.90	0.83	0.77	
19	*******	*******	*******	1.10	2.47	1.73	1.35	1.23	1.00	0.90	0.84	0.77	
20	*******	*******	*******	1.07	2.31	1.78	1.34	1.23	0.99	0.89	0.85	0.77	
21	*******	*******	*******	1.02	1.87	1.83	1.34	1.20	0.98	0.89	0.88	0.76	
22	*******	*******	*******	1.03	1.62	1.84	1.38	1.19	0.98	0.89	0.91	0.76	
23	*******	*******	*******	1.01	3.03	1.70	1.35	1.19	0.98	0.89	0.87	0.76	
24	*******	*******	*******	0.99	7.42	1.58	1.35	1.17	0.98	0.89	0.85	0.75	
25	*******	*******	*******	1.05	7.55	1.51	1.43	1.18	0.98	0.89	0.85	0.75	
26	*******	*******	*******	1.23	4.64	1.51	1.40	1.15	0.98	0.89	0.84	0.74	
27	*******	*******	*******	1.36	3.06	2.57	1.36	1.14	0.97	0.89	0.84	0.74	
28	*******	*******	*******	1.25	2.42	2.16	1.28	1.13	0.97	0.88	0.83	0.74	
29	*******	*******	*******	1.16	2.09	1.78	1.24	1.13	0.97	0.88	0.83	0.74	
30	*******	*******	*******	1.12	1.90	1.66	1.22	1.12	0.97	0.88		0.74	
31		*******		1.09	1.73		1.20		0.97	0.88		0.74	
MEAN	*******	*******	*******	1.08	2.15	1.87	1.48	1.26	1.02	0.91	0.85	0.78	
MAX	*******	*******	*******	1.36	7.55	2.57	1.94	1.68	1.11	0.96	0.91	0.83	7.55
MIN	*******	*******	*******	0.98	1.16	1.51	1.20	1.12	0.97	0.88	0.83	0.74	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.92 M (A.D), AT 6.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.45 M (A.D)
LEFT BANK ELEVATION 11.63 M (A.D)
RIGHT BANK ELEVATION 14.81 M (A.D), DRAINAGE AREA 8784 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	112.3	91.8	181.4	173.5	74.0	57.8	32.6	21.8	15.0	
2	*******	*******	*******	70.4	200.3	181.4	178.7	74.0	56.0	32.6	21.8	13.7	
3	*******	*******	*******	54.2	208.4	276.7	200.3	76.5	54.2	31.2	20.5	13.7	
4	*******	*******	*******	43.4	153.0	287.8	176.0	81.6	54.2	31.2	20.5	13.7	
5	*******	*******	*******	38.0	125.0	293.5	173.5	117.3	52.4	29.9	20.5	12.3	
6	*******	*******	*******	35.3	102.0	287.8	181.4	99.5	50.6	29.9	19.1	11.0	
7	*******	*******	*******	38.0	86.7	252.0	160.7	91.8	48.8	29.9	17.8	11.0	
8	*******	*******	*******	47.0	79.1	304.9	137.8	84.2	47.0	28.6	17.8	11.0	
9	*******	*******	*******	56.0	79.1	342.0	268.5	197.6	47.0	28.6	17.8	15.0	
10	*******	*******	*******	65.0	89.3	322.1	254.8	176.0	43.4	27.2	16.4	15.0	
11	*******	*******	*******	57.8	114.8	279.5	216.5	130.1	43.4	27.2	16.4	15.0	
12	*******	*******	*******	50.6	96.9	235.5	176.0	107.2	43.4	27.2	16.4	15.0	
13	*******	*******	*******	43.4	96.9	211.1	150.5	99.5	41.6	27.2	16.4	12.3	
14	*******	*******	*******	38.0	76.5	257.5	140.3	94.4	41.6	27.2	16.4	11.0	
15	*******	*******	*******	35.3	72.2	290.7	125.0	99.5	41.6	25.9	16.4	9.9	
16	*******	*******	*******	38.0	68.6	265.7	168.4	96.9	41.6	25.9	16.4	8.8	
17	*******	*******	*******	35.3	66.8	238.3	140.3	89.3	39.8	24.5	15.0	7.7	
18	*******	*******	*******	47.0	257.5	197.6	122.4	89.3	38.0	24.5	15.0	7.7	
19	*******	*******	*******	56.0	419.0	211.1	112.3	81.6	38.0	24.5	16.4	7.7	
20	*******	*******	*******	50.6	373.3	224.6	109.7	81.6	36.7	23.1	17.8	7.7	
21	*******	*******	*******	41.6	249.3	238.3	109.7	74.0	35.3	23.1	21.8	6.6	
22	*******	*******	*******	43.4	181.4	241.0	119.9	72.2	35.3	23.1	25.9	6.6	
23	*******	*******	*******	39.8	578.5	203.0	112.3	72.2	35.3	23.1	20.5	6.6	
24	*******	*******	*******	36.7	1964.6	170.9	112.3	68.6	35.3	23.1	17.8	5.5	
25	*******	*******	*******	47.0	2007.5	153.0	132.6	70.4	35.3	23.1	17.8	5.5	
26	*******	*******	*******	81.6	1070.6	153.0	125.0	65.0	35.3	23.1	16.4	4.4	
27	*******	*******	*******	114.8	587.1	447.4	114.8	63.2	34.0	23.1	16.4	4.4	
28	*******	*******	*******	86.7	404.7	330.6	94.4	61.4	34.0	21.8	15.0	4.4	
29	*******	*******	*******	66.8	310.6	224.6	84.2	61.4	34.0	21.8	15.0	4.4	
30	*******	*******	*******	59.6	257.5	192.2	79.1	59.6	34.0	21.8		4.4	
31		*******		54.2	211.1		74.0		34.0	21.8		4.4	
TOTAL	*******	*******	*******	1683.8	10680.1	7495.2	4524.9	2709.9	1298.9	807.8	523.2	291.4	******** CMSDAY
MEAN	*******	*******	*******	54.3	344.5	249.8	146.0	90.3	41.9	26.1	18.0	9.4	******** CMS
MAX	*******	*******	*******	114.8	2007.5	447.4	268.5	197.6	57.8	32.6	25.9	15.0	2007.5 CMS
MIN	*******	*******	*******	35.3	66.8	153.0	74.0	59.6	34.0	21.8	15.0	4.4	******** CMS
RUNOFF	*******	*******	*******	145.48	922.76	647.59	390.95	234.14	112.22	69.79	45.20	25.18	******** MCM

MOMENTARY PEAK 2129.60 CMS, AT 7.92 M (A.D), AT 6.00 HOURS, ON AUG 25, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 242.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

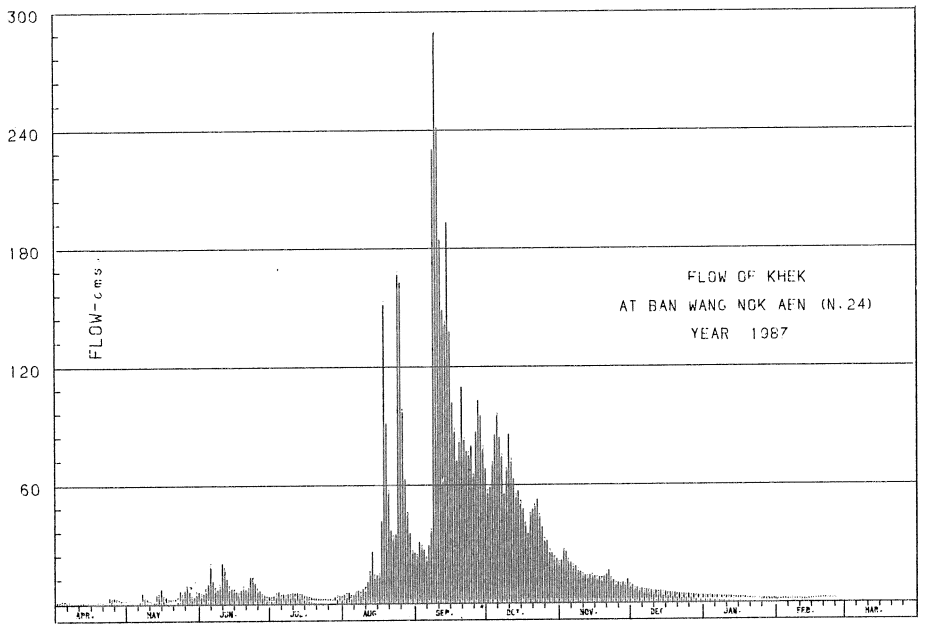
KHEK RIVER AT BAN WANG NOK AEN, PHITSANULOK (N.24)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+12.845 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1974, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1974, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 59 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.51	0.62	1.04	0.84	0.94	2.14	3.31	1.97	1.28	0.85	0.64	0.57	
2	0.52	0.72	0.99	0.88	1.02	2.40	3.35	2.29	1.24	0.83	0.62	0.55	
3	0.59	0.62	1.23	1.03	1.03	2.34	3.73	2.19	1.20	0.85	0.65	0.56	
4	0.57	0.59	1.35	1.08	0.94	2.24	4.12	2.01	1.18	0.83	0.66	0.56	
5	0.55	0.61	1.92	0.99	0.91	2.07	4.44	1.92	1.16	0.83	0.64	0.59	
6	0.55	0.79	1.45	0.97	1.09	2.33	4.08	1.87	1.14	0.82	0.63	0.60	
7	0.55	1.03	1.26	0.96	1.12	2.66	3.84	1.83	1.13	0.81	0.62	0.57	
8	0.53	0.78	1.16	0.99	1.08	7.36	3.24	1.77	1.12	0.80	0.61	0.53	
9	0.51	0.72	1.38	1.01	1.18	8.43	3.64	1.69	1.09	0.80	0.61	0.55	
10	0.48	0.63	1.92	1.04	1.26	7.57	4.13	1.64	1.07	0.79	0.61	0.57	
11	0.48	0.62	1.82	1.01	1.42	6.48	3.78	1.60	1.07	0.79	0.61	0.56	
12	0.47	0.78	1.52	1.03	1.72	5.68	3.48	1.60	1.06	0.79	0.60	0.55	
13	0.45	0.93	1.31	1.01	2.21	5.56	3.24	1.60	1.06	0.77	0.60	0.54	
14	0.44	1.02	1.20	0.98	1.63	6.62	3.29	1.64	1.05	0.76	0.59	0.53	
15	0.43	1.20	1.20	0.91	1.61	5.47	3.13	1.57	1.03	0.75	0.63	0.52	
16	0.41	0.91	1.08	0.87	1.66	4.59	2.99	1.56	1.01	0.75	0.65	0.50	
17	0.44	0.82	1.05	0.84	2.79	4.22	2.76	1.54	1.00	0.74	0.63	0.49	
18	0.49	0.73	1.14	0.80	5.78	3.74	2.56	1.54	0.99	0.74	0.64	0.48	
19	0.53	0.71	1.31	0.77	4.29	4.07	2.92	1.55	0.97	0.72	0.70	0.46	
20	0.45	0.73	1.16	0.75	3.31	4.79	2.98	1.70	0.96	0.71	0.72	0.47	
21	0.44	0.74	1.25	0.73	2.63	4.08	3.07	1.72	0.94	0.70	0.71	0.48	
22	0.52	0.84	1.57	0.72	2.53	3.88	3.15	1.53	0.92	0.68	0.69	0.47	
23	0.81	1.11	1.57	0.71	2.55	3.88	2.90	1.45	0.93	0.68	0.68	0.45	
24	0.76	1.00	1.39	0.72	6.12	3.96	2.68	1.40	0.92	0.68	0.68	0.43	
25	0.79	1.13	1.23	0.71	5.99	3.55	2.48	1.38	0.91	0.66	0.66	0.42	
26	0.76	1.32	1.12	0.71	4.50	4.16	2.42	1.35	0.89	0.66	0.64	0.41	
27	0.69	1.09	1.01	0.69	3.48	4.66	2.25	1.37	0.88	0.66	0.62	0.40	
28	0.64	0.90	0.93	0.81	2.94	4.40	2.16	1.36	0.87	0.65	0.62	0.41	
29	0.65	0.82	0.88	0.93	2.58	3.96	2.08	1.48	0.85	0.65	0.60	0.41	
30	0.64	1.13	0.85	0.88	2.23	3.63	2.02	1.35	0.85	0.65		0.40	
31		1.08		0.87	2.18		1.96		0.85	0.65		0.39	
MEAN	0.56	0.86	1.28	0.88	2.41	4.36	3.10	1.65	1.02	0.74	0.64	0.50	
MAX	0.81	1.32	1.92	1.08	6.12	8.43	4.44	2.29	1.28	0.85	0.72	0.60	8.43
MIN	0.41	0.59	0.85	0.69	0.91	2.07	1.96	1.35	0.85	0.65	0.59	0.39	0.39

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.30 M (A.D), AT 3.00 HOURS, ON SEP 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.97 M (A.D)
LEFT BANK ELEVATION 13.60 M (A.D)
RIGHT BANK ELEVATION 15.57 M (A.D), DRAINAGE AREA 1861 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.05	1.64	5.48	3.40	4.40	24.80	57.30	21.40	8.70	3.50	1.78	1.35	
2	1.10	2.36	4.90	3.80	5.24	31.00	58.50	28.25	8.10	3.30	1.64	1.25	
3	1.45	1.64	7.95	5.36	5.36	29.50	71.55	25.80	7.50	3.50	1.85	1.30	
4	1.35	1.45	9.75	5.96	4.40	27.00	85.20	22.20	7.24	3.30	1.92	1.30	
5	1.25	1.57	20.40	4.90	4.10	23.40	96.40	20.40	6.98	3.30	1.78	1.45	
6	1.25	2.92	11.35	4.70	6.08	29.25	83.80	19.40	6.72	3.20	1.71	1.50	
7	1.25	5.36	8.40	4.60	6.46	37.80	75.40	18.60	6.59	3.10	1.64	1.35	
8	1.15	2.84	6.98	4.90	5.96	230.00	55.20	17.40	6.46	3.00	1.57	1.15	
9	1.05	2.36	10.20	5.12	7.24	290.80	68.40	15.80	6.08	3.00	1.57	1.25	
10	0.90	1.71	20.40	5.48	8.40	241.35	85.55	14.80	5.84	2.92	1.57	1.35	
11	0.90	1.64	18.40	5.12	10.84	186.00	73.30	14.00	5.84	2.92	1.57	1.30	
12	0.85	2.84	12.56	5.36	16.40	148.60	62.80	14.00	5.72	2.92	1.50	1.25	
13	0.75	4.30	9.15	5.12	26.25	143.20	55.20	14.00	5.72	2.76	1.50	1.20	
14	0.70	5.24	7.50	4.80	14.60	193.00	56.70	14.80	5.60	2.68	1.45	1.15	
15	0.65	7.50	7.50	4.10	14.20	139.15	51.90	13.46	5.36	2.60	1.71	1.10	
16	0.55	4.10	5.96	3.70	15.20	101.65	47.70	13.28	5.12	2.60	1.85	1.00	
17	0.70	3.20	5.60	3.40	41.70	88.70	40.80	12.92	5.00	2.52	1.71	0.95	
18	0.95	2.44	6.72	3.00	153.10	71.90	35.00	12.92	4.90	2.52	1.78	0.90	
19	1.15	2.28	9.15	2.76	91.15	83.45	45.60	13.10	4.70	2.36	2.20	0.80	
20	0.75	2.44	6.98	2.60	57.30	109.60	47.40	16.00	4.60	2.28	2.36	0.85	
21	0.70	2.52	8.25	2.44	36.90	83.80	50.10	16.40	4.40	2.20	2.28	0.90	
22	1.10	3.40	13.46	2.36	34.25	76.80	52.50	12.74	4.20	2.06	2.13	0.85	
23	3.10	6.33	13.46	2.28	34.75	76.80	45.00	11.35	4.30	2.06	2.06	0.75	
24	2.68	5.00	10.35	2.36	168.40	79.60	38.40	10.50	4.20	2.06	2.06	0.65	
25	2.92	6.59	7.95	2.28	162.55	65.25	33.00	10.20	4.10	1.92	1.92	0.60	
26	2.68	9.30	6.46	2.28	98.50	86.60	31.50	9.75	3.90	1.92	1.78	0.55	
27	2.13	6.08	5.12	2.13	62.80	104.40	27.25	10.05	3.80	1.92	1.64	0.50	
28	1.78	4.00	4.30	3.10	46.20	95.00	25.20	9.90	3.70	1.85	1.64	0.55	
29	1.85	3.20	3.80	4.30	35.50	79.60	23.60	11.86	3.50	1.85	1.50	0.55	
30	1.78	6.59	3.50	3.80	26.75	68.05	22.40	9.75	3.50	1.85		0.50	
31		5.96		3.70	25.60		21.20		3.50	1.85		0.45	
TOTAL	40.47	118.80	271.98	119.21	1230.58	3046.05	1623.85	455.03	165.87	79.82	51.67	30.60	7233.93 CMSDAY
MEAN	1.35	3.83	9.07	3.85	39.70	101.54	52.38	15.17	5.35	2.57	1.78	0.99	19.76 CMS
MAX	3.10	9.30	20.40	5.96	168.40	290.80	96.40	28.25	8.70	3.50	2.36	1.50	290.80 CMS
MIN	0.55	1.45	3.50	2.13	4.10	23.40	21.20	9.75	3.50	1.85	1.45	0.45	0.45 CMS
RUNOFF	3.497	10.264	23.499	10.300	106.322	263.179	140.301	39.315	14.331	6.896	4.464	2.644	625.012 MCM

MOMENTARY PEAK 345.50 CMS, AT 9.30 M (A.D), AT 3.00 HOURS, ON SEP 9, 1987

RUNOFF YIELD 10.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 185.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

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

LOCATION — LAT. 17°-01'-54" N., LONG. 100°-11'-05" E., ON RIGHT BANK ABOUT 1,800 METERS DOWNSTREAM FROM PHROM PHIRAM DAM, AMPHOE PHROM PHIRAM, PHITSANULOK.

DRAINAGE AREA — 19,540 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 12 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +10.159 M.(A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1980 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

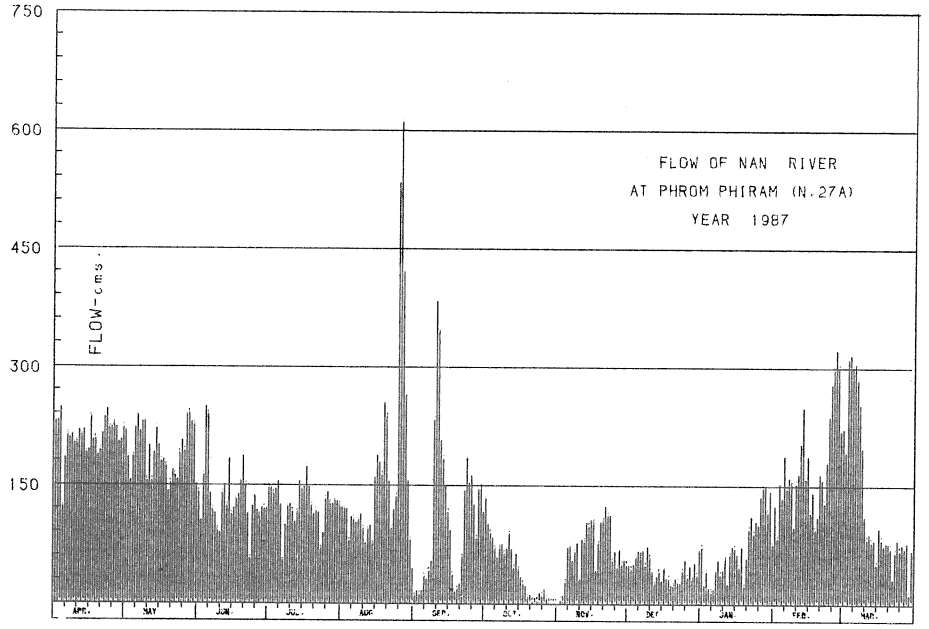
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.85	2.72	1.85	1.92	1.56	-0.28	1.75	-0.59	0.45	0.91	1.59	2.81	
2	2.92	2.39	1.33	1.87	1.60	-0.21	1.27	-0.40	0.44	-0.05	1.06	2.42	
3	3.04	1.99	2.11	1.83	1.53	-0.21	1.17	-0.38	0.47	0.38	1.94	3.72	
4	1.59	2.40	3.06	1.85	1.01	-0.20	1.02	0.12	0.71	-0.12	1.77	3.73	
5	2.33	2.76	3.00	2.03	1.39	0.25	0.87	0.83	0.76	-0.12	2.37	3.62	
6	2.70	2.98	1.78	1.60	1.42	0.10	0.62	0.95	0.84	-0.16	1.92	3.62	
7	2.62	2.71	1.57	0.61	1.29	0.40	0.89	0.55	0.78	0.40	2.03	3.47	
8	2.68	2.90	1.46	1.25	1.39	0.54	0.90	0.81	0.53	0.57	2.04	3.09	
9	2.54	2.86	1.21	1.62	1.44	2.92	0.77	0.92	0.85	0.32	1.22	2.53	
10	2.59	2.03	1.11	1.61	1.24	4.36	0.81	0.19	0.70	0.33	2.00	1.41	
11	2.72	2.51	1.83	1.54	0.92	4.05	1.15	0.99	0.30	0.66	2.09	1.06	
12	2.68	2.03	1.92	1.30	1.21	2.59	0.80	1.02	0.05	-0.01	2.59	1.09	
13	2.73	2.41	1.63	1.52	1.24	2.38	0.47	1.30	0.17	0.74	3.05	1.02	
14	2.43	2.80	2.32	1.97	0.95	1.91	0.70	1.30	0,39	0.85	2.07	0.97	
15	2.45	2.52	1.49	1.91	2.03	1.54	0.42	1.35	0.07	0.90	2.36	0.56	
16	2.95	2.33	1.54	1.88	2.42	1.15	0.15	1.36	0.46	0.69	1.53	1.20	
17	2.59	2.31	1.74	2.25	2.27	0.29	0.08	0.32	0.12	0.48	1.80	1.06	
18	2.66	2.25	1.76	1.88	2.13	-0.24	-0.07	0.97	0.22	0.84	1.23	0.87	
19	2.37	1.81	2.03	1.64	3.11	-0.07	-0.32	1.31	-0.05	0.00	1.40	1.01	
20	2.49	2.00	2.36	1.44	2.98	-0.02	-0.35	1.39	0.04	0.61	2.15	0.92	
21	2.68	2.15	1.96	1.56	1.97	0.69	-0.44	1.58	0.12	1.24	2.00	0.91	
22	2.96	2.12	1.45	1.47	1.24	1.83	-0.48	1.48	0.14	1.41	1.69	0.11	
23	3.02	2.00	0.66	0.86	1.52	2.39	-0.41	1.43	0.00	1.16	2.27	0.82	
24	2.80	2.45	1.58	1.10	1.79	1.95	-0.28	0.62	0.39	1.32	2.98	0.98	
25	2.77	2.58	1.79	1.74	5.64	2.10	-0.23	0.75	0.57	1.33	3.36	0.86	
26	2.85	2.48	1.51	1.80	6.31	1.61	-0.16	0.47	0.24	1.73	3.60	0.89	
27	2.77	2.95	1.46	1.67	4.69	1.07	-0.33	0.79	0.43	1.94	3.79	0.91	
28	2.61	3.02	1.55	1.62	3.26	1.85	-0.49	0.56	0.18	1.91	3.62	0.93	
29	2.59	2.84	1.60	1.72	1.98	1.93	-0.51	0.57	0.50	1.54	2.72	-0.19	
30	2.81	2.85	1.54	1.66	1.03	1.48	-0.52	0.56	0.29	1.82		0.78	
31		1.93		1.64	0.37		-0.52		0.79	0.95		0.85	
MEAN	2.66	2.45	1.74	1.62	2.03	1.27	0.28	0.77	0.39	0.79	2.22	1.55	
MAX	3.04	3.02	3.06	2.25	6.31	4.36	1.75	1.58	0.85	1.94	3.79	3.73	6.31
MIN	1.59	1.81	0.66	0.61	0.37	-0.28	-0.52	-0.59	-0.05	-0.16	1.06	-0.19	-0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.96 M (A.D), AT 5.00 HOURS, ON AUG 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.00 M (A.D)
LEFT BANK ELEVATION 10.44 M (A.D)
RIGHT BANK ELEVATION 10.02 M (A.D), DRAINAGE AREA 19540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	230.50	218.80	145.00	150.60	122.00	13.20	137.00	4.25	48.75	76.15	124.25	226.90	
2	236.80	189.15	105.10	146.60	125.00	15.65	100.90	9.00	48.20	23.50	86.20	191.80	
3	247.80	156.20	165.80	143.40	119.75	15.65	93.90	9.70	49.85	45.00	152.20	314.60	
4	124.25	190.00	249.70	145.00	82.70	16.00	83.40	32.00	63.60	20.00	138.60	315.65	
5	184.05	222.40	244.00	159.40	109.30	38.50	73.55	70.95	66.60	20.00	187.45	304.10	
6	217.00	242.20	139.40	125.00	111.50	31.00	58.20	78.75	71.60	18.00	150.60	304.10	
7	209.80	217.90	122.75	57.60	102.30	46.00	74.85	54.25	67.80	46.00	159.40	289.00	
8	215.20	235.00	114.50	99.50	109.30	53.70	75.50	69.65	53.15	55.35	160.20	252.55	
9	202.60	231.40	96.70	126.60	113.00	236.80	67.20	76.80	72.25	42.00	97.40	201.70	
10	207.10	159.40	89.70	125.80	98.80	383.60	69.65	35.50	63.00	42.50	157.00	110.75	
11	218.80	199.90	143.40	120.50	76.80	349.50	92.50	81.35	41.00	60.60	164.20	86.20	
12	215.20	159.40	150.60	103.00	96.70	207.10	69.00	83.40	28.50	25.50	207.10	88.30	
13	219.70	190.90	127.40	119.00	98.80	188.30	49.85	103.00	34.50	65.40	248.75	83.40	
14	192.70	226.00	183.20	154.60	78.75	149.80	63.00	103.00	45.50	72.25	162.60	80.05	
15	194.50	200.80	116.75	149.80	159.40	120.50	47.10	106.50	29.50	75.50	186.60	54.80	
16	239.50	184.05	120.50	147.40	191.80	92.50	33.50	107.20	49.30	62.40	119.75	96.00	
17	207.10	182.35	136.20	177.25	178.95	40.50	30.00	42.00	32.00	50.40	141.00	86.20	
18	213.40	177.25	137.80	147.40	167.40	14.60	22.50	80.05	37.00	71.60	98.10	73.55	
19	187.45	141.80	159.40	128.20	254.45	22.50	11.80	103.70	23.50	26.00	110.00	82.70	
20	198.10	157.00	186.60	113.00	242.20	25.00	10.75	109.30	28.00	57.60	169.00	76.80	
21	215.20	169.00	153.80	122.00	154.60	62.40	8.00	123.50	32.00	98.80	157.00	76.15	
22	240.40	166.60	113.75	115.25	98.80	143.40	7.00	116.00	33.00	110.75	132.20	31.50	
23	245.90	157.00	60.60	72.90	119.00	189.15	8.75	112.25	26.00	93.20	178.95	70.30	
24	226.00	194.50	123.50	89.00	140.20	153.00	13.20	58.20	45.50	104.40	242.20	80.70	
25	223.30	206.20	140.20	136.20	533.80	165.00	14.95	66.00	55.35	105.10	278.20	72.90	
26	230.50	197.20	118.25	141.00	614.20	125.80	18.00	49.85	38.00	135.40	302.00	74.85	
27	223.30	239.50	114.50	130.60	420.35	86.90	11.45	68.40	47.65	152.20	321.95	76.15	
28	208.90	245.90	121.25	126.60	268.70	145.00	6.75	54.80	35.00	149.80	304.10	77.45	
29	207.10	229.60	125.00	134.60	155.40	151.40	6.25	55.35	51.50	120.50	218.80	16.50	
30	226.90	230.50	120.50	129.80	84.10	116.00	6.00	54.80	40.50	142.60		67.80	
31		151.40		128.20	44.50		6.00		68.40	78.75		72.25	
TOTAL	6409.05	6069.30	4125.85	3965.80	5272.55	3398.45	1370.50	2119.50	1426.50	2247.25	5155.80	4035.70	45596.25 CMSDAY
MEAN	213.63	195.78	137.53	127.93	170.08	113.28	44.21	70.65	46.02	72.49	177.79	130.18	124.58 CMS
MAX	247.80	245.90	249.70	177.25	614.20	383.60	137.00	123.50	72.25	152.20	321.95	315.65	614.20 CMS
MIN	124.25	141.80	60.60	57.60	44.50	13.20	6.00	4.25	23.50	18.00	86.20	16.50	4.25 CMS
RUNOFF	553.742	524.388	356.473	342.645	455.548	293.626	118.411	183.125	123.250	194.162	445.461	348.684	3939.516 MCM

MOMENTARY PEAK 696.80 CMS, AT 6.96 M (A.D), AT 5.00 HOURS, ON AUG 26, 1987

RUNOFF YIELD 6.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

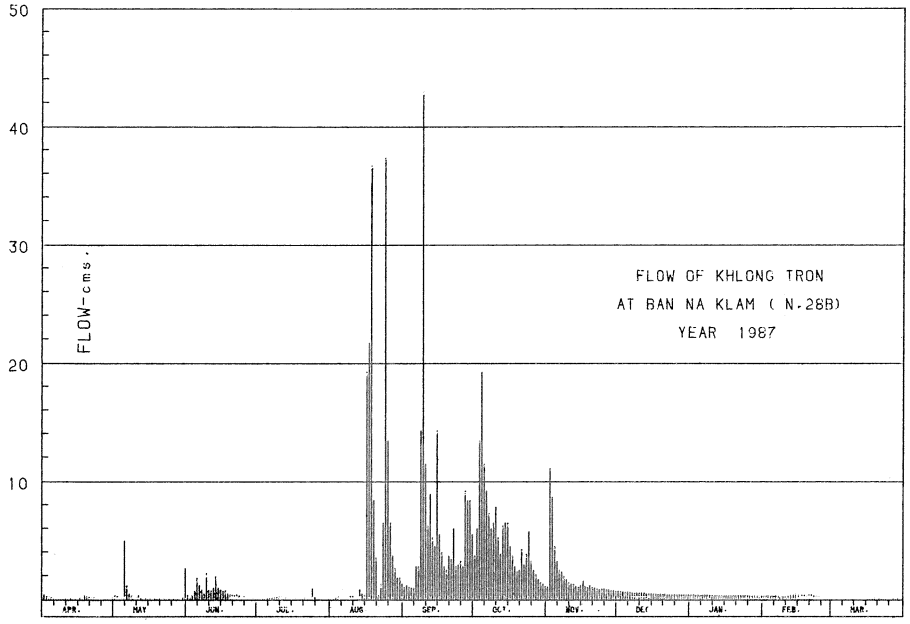
KHLONG TRON AT BAN NA KLAM, UTTARADIT (N.28B)

LOCATION	LAT. 17°-34'-55" N., LONG. 100°-29'-45" E., ON RIGHT BANK NEAR BAN NA KLAM SCHOOL ABOUT 1 KILOMETER UPSTREAM FROM STATION N.28A, AMPHOE NAM PAT, UTTARADIT.
DRAINAGE AREA	366 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+3.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 20 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+9.577 M.(A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00 - 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.38	4.37	4.37	4.30	4.29	4.48	4.68	4.48	4.43	4.38	4.35	4.33	
2	4.35	4.35	4.33	4.30	4.30	4.50	4.78	4.95	4.43	4.38	4.35	4.33	
3	4.34	4.32	4.42	4.30	4.32	4.48	5.01	4.88	4.42	4.37	4.35	4.32	
4	4.32	4.32	4.43	4.30	4.34	4.47	5.14	4.72	4.42	4.37	4.35	4.32	
5	4.31	4.74	4.55	4.30	4.34	4.46	4.96	4.65	4.42	4.37	4.35	4.32	
6	4.30	4.50	4.50	4.31	4.34	4.62	4.90	4.60	4.42	4.37	4.35	4.33	
7	4.30	4.40	4.45	4.31	4.33	4.62	4.83	4.59	4.41	4.37	4.34	4.33	
8	4.30	4.36	4.40	4.32	4.31	5.03	4.78	4.56	4.41	4.37	4.34	4.33	
9	4.30	4.34	4.58	4.33	4.35	5.53	4.80	4.54	4.41	4.37	4.34	4.32	
10	4.29	4.32	4.44	4.34	4.35	4.96	4.85	4.52	4.41	4.36	4.34	4.32	
11	4.29	4.37	4.44	4.34	4.32	4.79	4.75	4.51	4.41	4.36	4.34	4.32	
12	4.29	4.30	4.47	4.32	4.35	4.89	4.69	4.51	4.41	4.36	4.34	4.32	
13	4.28	4.30	4.56	4.32	4.45	4.75	4.79	4.49	4.40	4.36	4.34	4.32	
14	4.28	4.29	4.47	4.32	4.40	4.72	4.80	4.48	4.40	4.36	4.34	4.31	
15	4.28	4.29	4.45	4.34	4.37	5.03	4.80	4.50	4.40	4.36	4.34	4.31	
16	4.31	4.29	4.43	4.32	5.14	4.76	4.72	4.53	4.40	4.36	4.36	4.31	
17	4.30	4.29	4.44	4.32	5.19	4.70	4.68	4.49	4.39	4.36	4.37	4.31	
18	4.38	4.28	4.40	4.32	5.44	4.62	4.62	4.48	4.39	4.36	4.37	4.31	
19	4.35	4.28	4.38	4.32	4.87	4.60	4.59	4.50	4.39	4.36	4.36	4.31	
20	4.33	4.28	4.37	4.32	4.67	4.68	4.60	4.48	4.39	4.36	4.38	4.31	
21	4.33	4.27	4.37	4.32	4.37	4.66	4.71	4.47	4.39	4.36	4.38	4.30	
22	4.32	4.27	4.38	4.32	4.51	4.78	4.63	4.46	4.38	4.36	4.36	4.30	
23	4.31	4.27	4.36	4.32	4.80	4.62	4.69	4.45	4.38	4.36	4.35	4.30	
24	4.31	4.26	4.35	4.46	5.45	4.63	4.77	4.46	4.38	4.36	4.34	4.30	
25	4.31	4.26	4.34	4.32	5.01	4.65	4.65	4.46	4.38	4.36	4.34	4.30	
26	4.31	4.26	4.33	4.30	4.80	4.62	4.60	4.45	4.38	4.35	4.34	4.30	
27	4.30	4.25	4.32	4.30	4.68	4.90	4.57	4.45	4.38	4.35	4.33	4.29	
28	4.29	4.25	4.32	4.29	4.61	4.87	4.54	4.44	4.38	4.35	4.33	4.29	
29	4.29	4.25	4.31	4.29	4.55	4.87	4.52	4.44	4.38	4.35	4.33	4.29	
30	4.33	4.31	4.31	4.29	4.55	4.76	4.51	4.43	4.38	4.35		4.29	
31		4.61		4.29	4.51		4.49		4.38	4.35		4.29	
MEAN	4.31	4.33	4.41	4.32	4.59	4.74	4.72	4.53	4.40	4.36	4.35	4.31	
MAX	4.38	4.74	4.58	4.46	5.45	5.53	5.14	4.95	4.43	4.38	4.38	4.33	5.53
MIN	4.28	4.25	4.31	4.29	4.29	4.46	4.49	4.43	4.38	4.35	4.33	4.29	4.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.16 M (A.D), AT 13.00 HOURS, ON AUG 16, 1987
ZERO GAGE AT BOTTOM ELEVATION 3.00 M (A.D), RIVER BED 3.58 M (A.D)
LEFT BANK ELEVATION 11.15 M (A.D)
RIGHT BANK ELEVATION 9.28 M (A.D), DRAINAGE AREA 366 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.422	0.383	0.383	0.110	0.099	1.060	3.700	1.060	0.710	0.422	0.305	0.227	
2	0.305	0.305	0.227	0.110	0.110	1.200	6.000	11.100	0.710	0.422	0.305	0.227	
3	0.266	0.188	0.640	0.110	0.188	1.060	13.430	8.660	0.640	0.383	0.305	0.188	
4	0.188	0.188	0.710	0.110	0.266	0.990	19.260	4.500	0.640	0.383	0.305	0.188	
5	0.149	5.000	1.850	0.110	0.266	0.920	11.480	3.250	0.640	0.383	0.305	0.188	
6	0.110	1.200	1.200	0.149	0.266	2.800	9.200	2.500	0.640	0.383	0.305	0.227	
7	0.110	0.500	0.850	0.149	0.227	2.800	7.310	2.370	0.570	0.383	0.266	0.227	
8	0.110	0.344	0.500	0.188	0.149	14.290	6.000	1.980	0.570	0.383	0.266	0.227	
9	0.110	0.266	2.240	0.227	0.305	42.980	6.500	1.720	0.570	0.383	0.266	0.188	
10	0.099	0.188	0.780	0.266	0.305	11.480	7.850	1.460	0.570	0.344	0.266	0.188	
11	0.099	0.383	0.780	0.266	0.188	6.250	5.250	1.330	0.570	0.344	0.266	0.188	
12	0.099	0.110	0.990	0.188	0.305	8.930	3.850	1.330	0.570	0.344	0.266	0.188	
13	0.088	0.110	1.980	0.188	0.850	5.250	6.250	1.130	0.500	0.344	0.266	0.188	
14	0.088	0.099	0.990	0.188	0.500	4.500	6.500	1.060	0.500	0.344	0.266	0.149	
15	0.088	0.099	0.850	0.266	0.383	14.290	6.500	1.200	0.500	0.344	0.266	0.149	
16	0.149	0.099	0.710	0.188	19.260	5.500	4.500	1.590	0.500	0.344	0.344	0.149	
17	0.110	0.099	0.780	0.188	21.710	4.000	3.700	1.130	0.461	0.344	0.383	0.149	
18	0.422	0.088	0.500	0.188	36.680	2.800	2.800	1.060	0.461	0.344	0.383	0.149	
19	0.305	0.088	0.422	0.188	8.390	2.500	2.370	1.200	0.461	0.344	0.344	0.149	
20	0.227	0.088	0.383	0.188	3.550	3.700	2.500	1.060	0.461	0.344	0.422	0.149	
21	0.227	0.077	0.383	0.188	0.383	3.400	4.250	0.990	0.461	0.344	0.422	0.110	
22	0.188	0.077	0.422	0.188	1.330	6.000	2.950	0.920	0.422	0.344	0.344	0.110	
23	0.149	0.077	0.344	0.188	6.500	2.800	3.850	0.850	0.422	0.344	0.305	0.110	
24	0.149	0.066	0.305	0.920	37.350	2.950	5.750	0.920	0.422	0.344	0.266	0.110	
25	0.149	0.066	0.266	0.188	13.430	3.250	3.250	0.920	0.422	0.344	0.266	0.110	
26	0.149	0.066	0.227	0.110	6.500	2.800	2.500	0.850	0.422	0.305	0.266	0.110	
27	0.110	0.055	0.188	0.110	3.700	9.200	2.110	0.850	0.422	0.305	0.227	0.099	
28	0.099	0.055	0.188	0.099	2.650	8.390	1.720	0.780	0.422	0.305	0.227	0.099	
29	0.099	0.055	0.149	0.099	1.850	8.390	1.460	0.780	0.422	0.305	0.227	0.099	
30	0.227	0.149	0.149	0.099	1.850	5.500	1.330	0.710	0.422	0.305		0.099	
31		2.650		0.099	1.330		1.130		0.422	0.305		0.099	
TOTAL	5.090	13.218	20.386	5.853	170.870	189.980	165.250	59.260	15.925	10.859	8.650	4.837	670.178 CMSDAY
MEAN	0.170	0.426	0.680	0.189	5.512	6.333	5.331	1.975	0.514	0.350	0.298	0.156	1.831 CMS
MAX	0.422	5.000	2.240	0.920	37.350	42.980	19.260	11.100	0.710	0.422	0.422	0.227	42.980 CMS
MIN	0.088	0.055	0.149	0.099	0.099	0.920	1.130	0.710	0.422	0.305	0.227	0.099	0.055 CMS
RUNOFF	0.440	1.142	1.761	0.506	14.763	16.414	14.278	5.120	1.376	0.938	0.747	0.418	57.903 MCM

MOMENTARY PEAK 107.50 CMS, AT 6.16 M (A.D), AT 13.00 HOURS, ON AUG 16, 1987

RUNOFF YIELD 5.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 293.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

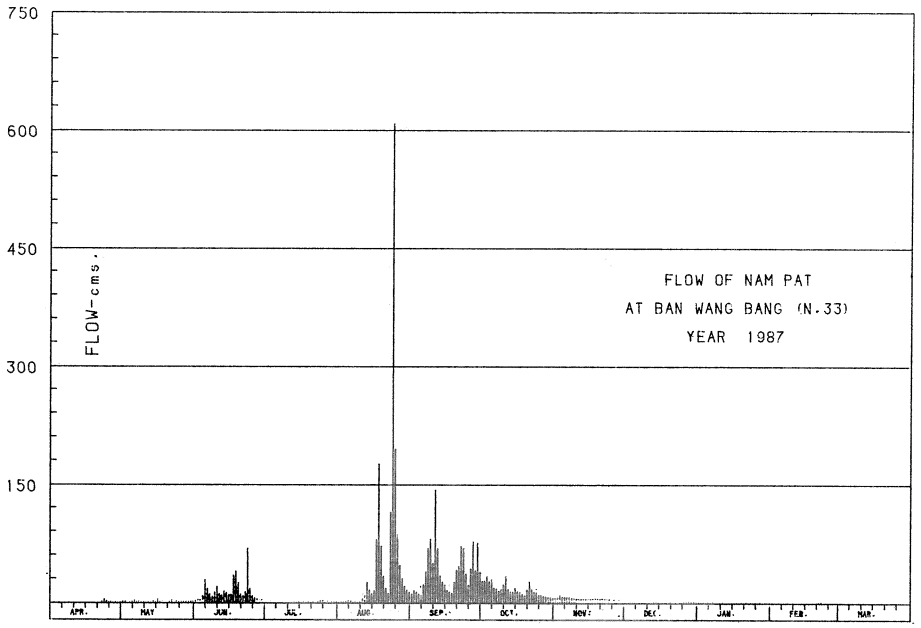
NAM PAT AT BAN WANG BANG, UTTARADIT (N.33)

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	+79.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+87.268 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 135 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	79.13	79.38	79.44	79.47	79.31	79.89	80.31	79.64	79.51	79.33	79.21	79.18	
2	79.18	79.34	79.54	79.46	79.31	80.03	80.32	79.68	79.50	79.32	79.20	79.17	
3	79.20	79.29	79.52	79.43	79.32	79.98	80.43	79.81	79.49	79.31	79.20	79.17	
4	79.17	79.27	79.78	79.42	79.35	79.88	80.30	79.72	79.49	79.31	79.21	79.16	
5	79.16	79.36	80.34	79.41	79.44	79.82	80.35	79.72	79.48	79.31	79.20	79.16	
6	79.19	79.45	80.09	79.40	79.39	80.22	80.12	79.71	79.47	79.31	79.19	79.16	
7	79.20	79.44	79.88	79.40	79.36	80.53	80.10	79.70	79.46	79.31	79.19	79.16	
8	79.19	79.39	79.74	79.40	79.34	80.92	80.01	79.67	79.46	79.29	79.18	79.16	
9	79.18	79.35	79.97	79.39	79.32	81.06	80.07	79.64	79.46	79.28	79.18	79.17	
10	79.17	79.31	80.16	79.38	79.34	80.68	80.22	79.62	79.46	79.28	79.17	79.17	
11	79.16	79.29	79.90	79.37	79.61	81.65	80.43	79.61	79.45	79.28	79.17	79.15	
12	79.14	79.28	79.82	79.36	79.80	80.92	80.07	79.60	79.44	79.27	79.17	79.15	
13	79.13	79.27	80.01	79.35	80.28	80.44	80.00	79.59	79.43	79.27	79.17	79.15	
14	79.12	79.38	79.94	79.34	80.05	80.29	79.97	79.58	79.43	79.28	79.17	79.14	
15	79.12	79.41	79.86	79.33	79.89	80.22	80.12	79.59	79.42	79.27	79.17	79.15	
16	79.12	79.58	79.85	79.32	80.03	80.04	80.00	79.59	79.42	79.26	79.17	79.15	
17	79.11	79.48	80.45	79.31	81.05	79.99	79.97	79.60	79.40	79.26	79.16	79.15	
18	79.11	79.41	80.54	79.31	81.91	79.91	79.87	79.63	79.40	79.26	79.16	79.14	
19	79.11	79.36	80.27	79.30	80.95	80.29	79.82	79.61	79.40	79.24	79.17	79.14	
20	79.11	79.38	79.87	79.29	80.43	80.56	80.06	79.60	79.40	79.24	79.18	79.14	
21	79.12	79.41	79.79	79.28	80.10	80.63	80.31	79.62	79.39	79.23	79.26	79.15	
22	79.35	79.51	79.97	79.28	79.91	80.95	80.07	79.61	79.37	79.23	79.27	79.14	
23	79.56	79.50	80.92	79.29	81.41	80.92	79.98	79.59	79.36	79.23	79.26	79.14	
24	79.42	79.42	80.10	79.44	84.08	80.48	79.94	79.58	79.35	79.23	79.25	79.14	
25	79.38	79.38	79.79	79.47	82.05	80.21	79.84	79.56	79.35	79.24	79.24	79.15	
26	79.33	79.39	79.67	79.47	81.12	80.59	79.82	79.55	79.35	79.23	79.22	79.14	
27	79.30	79.39	79.60	79.39	80.65	81.02	79.78	79.54	79.38	79.23	79.19	79.14	
28	79.30	79.33	79.54	79.38	80.38	80.55	79.74	79.54	79.37	79.21	79.19	79.13	
29	79.29	79.34	79.52	79.36	80.18	81.00	79.71	79.53	79.35	79.21	79.19	79.12	
30	79.27	79.38	79.49	79.33	80.05	80.52	79.68	79.51	79.35	79.21		79.11	
31		79.40		79.31	79.96		79.66		79.34	79.21		79.10	
MEAN	79.21	79.38	79.91	79.37	80.24	80.47	80.03	79.62	79.42	79.26	79.20	79.15	
MAX	79.56	79.58	80.92	79.47	84.08	81.65	80.43	79.81	79.51	79.33	79.27	79.18	84.08
MIN	79.11	79.27	79.44	79.28	79.31	79.82	79.66	79.51	79.34	79.21	79.16	79.10	79.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 84.50 M (MSL), AT 13.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 79.00 M (MSL), RIVER BED 77.55 M (MSL)
LEFT BANK ELEVATION 88.39 M (MSL)
RIGHT BANK ELEVATION 93.58 M (MSL), DRAINAGE AREA 2463 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	2.24	2.88	3.24	1.68	11.43	27.50	5.80	3.74	1.84	0.88	0.64	
2	0.64	1.92	4.16	3.12	1.68	15.61	28.00	6.60	3.60	1.76	0.80	0.56	
3	0.80	1.52	3.88	2.76	1.76	13.94	33.80	9.27	3.48	1.68	0.80	0.56	
4	0.56	1.36	8.60	2.64	2.00	11.16	27.00	7.40	3.48	1.68	0.88	0.48	
5	0.48	2.08	29.00	2.52	2.88	9.54	29.50	7.40	3.36	1.68	0.80	0.48	
6	0.72	3.00	17.83	2.40	2.32	23.00	18.96	7.20	3.24	1.68	0.72	0.48	
7	0.80	2.88	11.16	2.40	2.08	39.80	18.20	7.00	3.12	1.68	0.72	0.48	
8	0.72	2.32	7.80	2.40	1.92	69.20	14.87	6.40	3.12	1.52	0.64	0.48	
9	0.64	2.00	13.66	2.32	1.76	81.40	17.09	5.80	3.12	1.44	0.64	0.56	
10	0.56	1.68	20.48	2.24	1.92	50.00	23.00	5.40	3.12	1.44	0.56	0.56	
11	0.48	1.52	11.70	2.16	5.20	143.25	33.80	5.20	3.00	1.44	0.56	0.40	
12	0.32	1.44	9.54	2.08	9.00	69.20	17.09	5.00	2.88	1.36	0.56	0.40	
13	0.24	1.36	14.87	2.00	26.00	34.40	14.50	4.86	2.76	1.36	0.56	0.40	
14	0.16	2.24	12.82	1.92	16.35	26.50	13.66	4.72	2.76	1.44	0.56	0.32	
15	0.16	2.52	10.62	1.84	11.43	23.00	18.96	4.86	2.64	1.36	0.56	0.40	
16	0.16	4.72	10.35	1.76	15.61	15.98	14.50	4.86	2.64	1.28	0.56	0.40	
17	0.08	3.36	35.00	1.68	80.50	14.22	13.66	5.00	2.40	1.28	0.48	0.40	
18	0.08	2.52	40.40	1.68	176.30	11.98	10.89	5.60	2.40	1.28	0.48	0.32	
19	0.08	2.08	25.50	1.60	71.75	26.50	9.54	5.20	2.40	1.12	0.56	0.32	
20	0.08	2.24	10.89	1.52	33.80	41.60	16.72	5.00	2.40	1.12	0.64	0.32	
21	0.16	2.52	8.80	1.44	18.20	46.25	27.50	5.40	2.32	1.04	1.28	0.40	
22	2.00	3.74	13.66	1.44	11.98	71.75	17.09	5.20	2.16	1.04	1.36	0.32	
23	4.44	3.60	69.20	1.52	115.15	69.20	13.94	4.86	2.08	1.04	1.28	0.32	
24	2.64	2.64	18.20	2.88	608.80	36.80	12.82	4.72	2.00	1.04	1.20	0.32	
25	2.24	2.24	8.80	3.24	195.40	22.50	10.08	4.44	2.00	1.12	1.12	0.40	
26	1.84	2.32	6.40	3.24	86.80	43.40	9.54	4.30	2.00	1.04	0.96	0.32	
27	1.60	2.32	5.00	2.32	47.75	77.80	8.60	4.16	2.24	1.04	0.72	0.32	
28	1.60	1.84	4.16	2.24	31.00	41.00	7.80	4.16	2.16	0.88	0.72	0.24	
29	1.52	1.92	3.88	2.08	21.24	76.00	7.20	4.02	2.00	0.88	0.72	0.16	
30	1.36	2.24	3.48	1.84	16.35	39.20	6.60	3.74	2.00	0.88		0.08	
31		2.40		1.68	13.38		6.20		1.92	0.88		0.00	
TOTAL	27.40	72.78	442.72	68.20	1631.99	1255.61	528.61	163.57	82.54	40.32	22.32	11.84	4347.90 CMSDAY
MEAN	0.91	2.35	14.76	2.20	52.64	41.85	17.05	5.45	2.66	1.30	0.77	0.38	11.88 CMS
MAX	4.44	4.72	69.20	3.24	608.80	143.25	33.80	9.27	3.74	1.84	1.36	0.64	608.80 CMS
MIN	0.08	1.36	2.88	1.44	1.68	9.54	6.20	3.74	1.92	0.88	0.48	0.00	0.00 CMS
RUNOFF	2.367	6.288	38.251	5.892	141.004	108.485	45.672	14.132	7.131	3.484	1.928	1.023	375.659 MCM

MOMENTARY PEAK 724.50 CMS, AT 84.50 M (MSL), AT 13.00 HOURS, ON AUG 24, 1987
RUNOFF YIELD 4.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 294.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

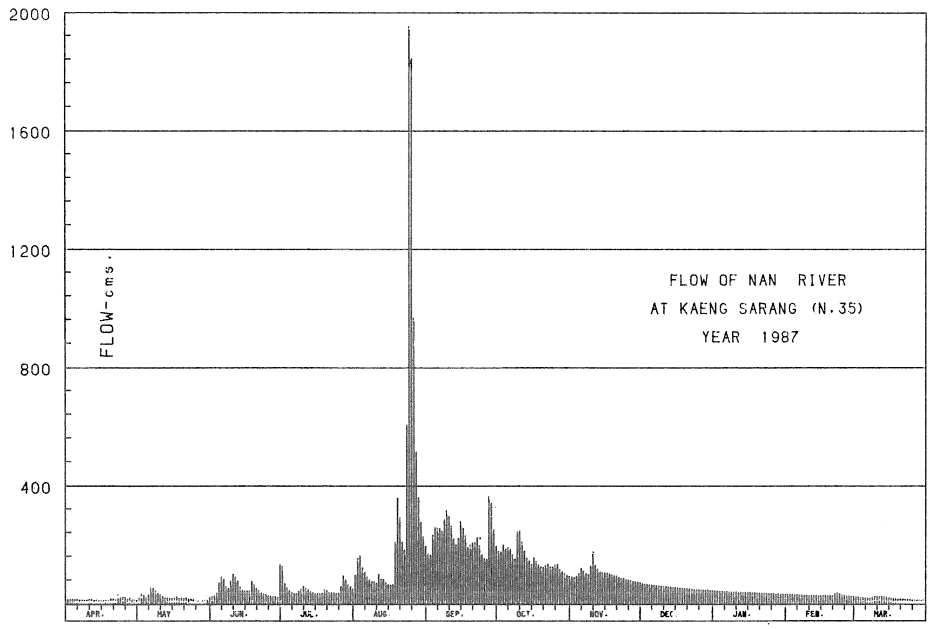
NAN RIVER AT KAENG SARANG, NAN (N.35)

LOCATION	LAT. 18°-24'-00" N., LONG. 100°-51'-05" E., ON LEFT BANK AT KAENG SARANG, 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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	IN THE VICINITY OF METEOROLOGICAL STATION.
ELEVATION	+12.354 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 180 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.77	0.82	0.87	1.62	1.42	1.89	1.94	1.39	1.23	1.04	0.94	0.86	
2	0.78	0.95	0.89	1.23	1.80	1.87	1.93	1.37	1.22	1.03	0.94	0.85	
3	0.78	0.90	0.98	1.12	1.85	2.28	2.08	1.40	1.21	1.03	0.93	0.84	
4	0.78	0.85	1.24	1.04	1.59	2.43	1.99	1.46	1.20	1.02	0.93	0.84	
5	0.77	0.92	1.39	1.00	1.49	2.42	2.02	1.58	1.19	1.02	0.92	0.83	
6	0.76	1.12	1.33	0.96	1.38	2.41	1.98	1.52	1.19	1.02	0.92	0.82	
7	0.75	1.11	1.15	0.97	1.31	2.36	1.87	1.46	1.18	1.01	0.91	0.82	
8	0.75	1.05	1.10	1.03	1.28	2.58	1.78	1.44	1.17	1.01	0.91	0.84	
9	0.75	0.97	1.29	1.08	1.27	2.76	2.34	1.63	1.16	1.01	0.91	0.87	
10	0.78	0.94	1.45	1.16	1.24	2.64	2.36	1.89	1.15	1.01	0.90	0.87	
11	0.77	0.87	1.38	1.12	1.46	2.47	2.15	1.65	1.15	1.00	0.90	0.88	
12	0.75	0.83	1.29	1.07	1.33	2.21	1.95	1.56	1.14	1.00	0.90	0.87	
13	0.75	0.82	1.14	1.02	1.32	2.08	1.80	1.50	1.14	1.00	0.90	0.86	
14	0.74	0.82	1.05	0.99	1.25	2.22	1.74	1.48	1.13	1.00	0.90	0.85	
15	0.74	0.81	1.04	0.96	1.20	2.55	1.67	1.48	1.13	1.00	0.90	0.83	
16	0.74	0.83	1.04	0.96	1.19	2.42	1.81	1.47	1.12	1.00	0.90	0.82	
17	0.74	0.86	1.04	0.96	1.20	2.27	1.74	1.45	1.11	0.99	0.90	0.81	
18	0.74	0.82	1.28	0.97	2.14	2.02	1.65	1.43	1.11	0.99	0.90	0.80	
19	0.79	0.82	1.20	1.08	2.99	2.08	1.61	1.41	1.10	0.98	0.90	0.79	
20	0.80	0.82	1.11	1.05	2.62	2.12	1.60	1.41	1.10	0.98	0.90	0.79	
21	0.76	0.83	1.05	1.01	2.14	2.13	1.64	1.37	1.09	0.97	0.95	0.79	
22	0.94	0.79	0.98	0.99	1.97	2.23	1.67	1.35	1.08	0.97	1.00	0.78	
23	0.83	0.79	0.95	0.99	4.18	2.06	1.61	1.35	1.07	0.97	0.95	0.78	
24	0.86	0.78	0.93	0.96	7.94	1.87	1.61	1.32	1.07	0.96	0.92	0.77	
25	0.84	0.75	0.90	0.98	7.69	1.79	1.65	1.31	1.07	0.96	0.90	0.76	
26	0.80	0.73	0.88	1.15	5.43	1.77	1.67	1.30	1.07	0.96	0.89	0.75	
27	0.82	0.73	0.87	1.41	3.78	3.02	1.55	1.28	1.06	0.95	0.88	0.75	
28	0.77	0.73	0.86	1.31	3.00	2.89	1.50	1.27	1.06	0.95	0.88	0.75	
29	0.76	0.74	0.85	1.20	2.53	2.38	1.46	1.26	1.06	0.94	0.87	0.75	
30	0.76	0.89	1.66	1.15	2.25	2.05	1.42	1.25	1.05	0.94		0.75	
31		0.84		1.09	2.05		1.40		1.05	0.94		0.74	
MEAN	0.78	0.86	1.11	1.08	2.40	2.28	1.78	1.43	1.12	0.99	0.91	0.81	
MAX	0.94	1.12	1.66	1.62	7.94	3.02	2.36	1.89	1.23	1.04	1.00	0.88	7.94
MIN	0.74	0.73	0.85	0.96	1.19	1.77	1.40	1.25	1.05	0.94	0.87	0.74	0.73

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.21 M (A.D), AT 21.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.20 M (A.D)
LEFT BANK ELEVATION 14.75 M (A.D)
RIGHT BANK ELEVATION 15.07 M (A.D), DRAINAGE AREA 10335 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.30	20.20	25.70	128.10	98.00	170.40	178.40	93.55	70.35	45.20	33.40	24.60	
2	16.20	34.50	27.90	70.35	156.00	167.20	176.80	90.65	68.90	43.90	33.40	23.50	
3	16.20	29.00	37.80	55.60	164.00	233.60	200.80	95.00	67.45	43.90	32.30	22.40	
4	16.20	23.50	71.80	45.20	123.50	259.25	186.40	104.00	66.00	42.60	32.30	22.40	
5	15.30	31.20	93.55	40.00	108.50	257.50	191.20	122.00	64.70	42.60	31.20	21.30	
6	14.40	55.60	84.85	35.60	92.10	255.75	184.80	113.00	64.70	42.60	31.20	20.20	
7	13.50	54.30	59.50	36.70	81.95	247.20	167.20	104.00	63.40	41.30	30.10	20.20	
8	13.50	46.50	53.00	43.90	77.60	285.50	152.90	101.00	62.10	41.30	30.10	22.40	
9	13.50	36.70	79.05	50.40	76.15	317.80	243.80	129.65	60.80	41.30	30.10	25.70	
10	16.20	33.40	102.50	60.80	71.80	296.20	247.20	170.40	59.50	41.30	29.00	25.70	
11	15.30	25.70	92.10	55.60	104.00	266.25	212.00	132.75	59.50	40.00	29.00	26.80	
12	13.50	21.30	79.05	49.10	84.85	221.70	180.00	119.00	58.20	40.00	29.00	25.70	
13	13.50	20.20	58.20	42.60	83.40	200.80	156.00	110.00	58.20	40.00	29.00	24.60	
14	12.60	20.20	46.50	38.90	73.25	223.40	146.70	107.00	56.90	40.00	29.00	23.50	
15	12.60	19.10	45.20	35.60	66.00	280.25	135.85	107.00	56.90	40.00	29.00	21.30	
16	12.60	21.30	45.20	35.60	64.70	257.50	157.60	105.50	55.60	40.00	29.00	20.20	
17	12.60	24.60	45.20	35.60	66.00	231.90	146.70	102.50	54.30	38.90	29.00	19.10	
18	12.60	20.20	77.60	36.70	210.40	191.20	132.75	99.50	54.30	38.90	29.00	18.00	
19	17.10	20.20	66.00	50.40	359.20	200.80	126.55	96.50	53.00	37.80	29.00	17.10	
20	18.00	20.20	54.30	46.50	292.60	207.20	125.00	96.50	53.00	37.80	29.00	17.10	
21	14.40	21.30	46.50	41.30	210.40	208.80	131.20	90.65	51.70	36.70	34.50	17.10	
22	33.40	17.10	37.80	38.90	183.20	225.10	135.85	87.75	50.40	36.70	40.00	16.20	
23	21.30	17.10	34.50	38.90	606.40	197.60	126.55	87.75	49.10	36.70	34.50	16.20	
24	24.60	16.20	32.30	35.60	1952.20	167.20	126.55	83.40	49.10	35.60	31.20	15.30	
25	22.40	13.50	29.00	37.80	1844.70	154.45	132.75	81.95	49.10	35.60	29.00	14.40	
26	18.00	11.70	26.80	59.50	967.05	151.35	135.85	80.50	49.10	35.60	27.90	13.50	
27	20.20	11.70	25.70	96.50	515.70	364.60	117.50	77.60	47.80	34.50	26.80	13.50	
28	15.30	11.70	24.60	81.95	361.00	341.20	110.00	76.15	47.80	34.50	26.80	13.50	
29	14.40	12.60	23.50	66.00	276.75	250.60	104.00	74.70	47.80	33.40	25.70	13.50	
30	14.40	27.90	134.30	59.50	228.50	196.00	98.00	73.25	46.50	33.40		13.50	
31		22.40		51.70	196.00		95.00		46.50	33.40		12.60	
TOTAL	489.10	761.10	1660.00	1600.90	9795.90	7028.30	4761.90	3013.20	1742.70	1205.50	879.50	601.10	33539.21 CMSDAY
MEAN	16.30	24.55	55.33	51.64	316.00	234.28	153.61	100.44	56.22	38.89	30.33	19.39	91.64 CMS
MAX	33.40	55.60	134.30	128.10	1952.20	364.60	247.20	170.40	70.35	45.20	40.00	26.80	1952.20 CMS
MIN	12.60	11.70	23.50	35.60	64.70	151.35	95.00	73.25	46.50	33.40	25.70	12.60	11.70 CMS
RUNOFF	42.258	65.759	143.424	138.318	846.366	607.245	411.428	260.340	150.569	104.155	75.989	51.935	2897.788 MCM

MOMENTARY PEAK 2068.30 CMS, AT 8.21 M (A.D), AT 21.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD 8.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 200.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

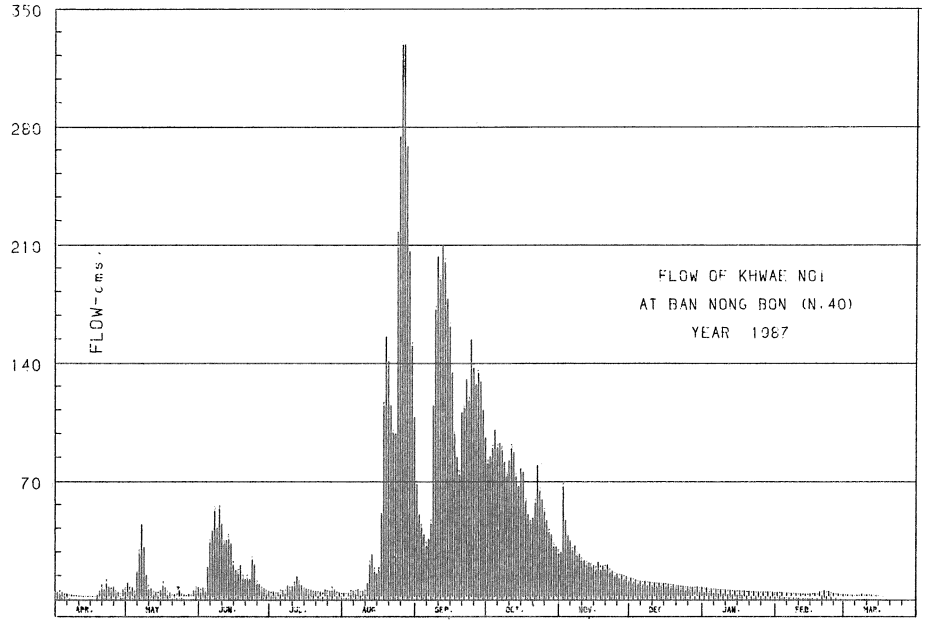
KHWAE NOI RIVER AT BAN NONG BON, PHITSANULOK (N.40)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 ABOUT 4 METERS SOUTH OF THE GAGE SITE, B.M.2 ABOUT 90 METERS SOUTH OF THE GAGE SITE.
ELEVATION	B.M.1=+14.45 M. (A.D.), B.M.2=+14.40 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 - 1968, 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	0.96	0.81	0.72	0.68	2.81	3.12	1.61	1.08	0.84	0.71	0.63	
2	0.76	0.86	0.83	0.72	0.68	2.30	3.17	2.77	1.06	0.83	0.71	0.63	
3	0.70	0.84	0.83	0.70	0.68	2.14	3.33	2.20	1.04	0.81	0.70	0.62	
4	0.67	0.75	1.31	0.70	0.77	1.95	3.52	2.00	1.02	0.81	0.70	0.62	
5	0.65	1.22	1.86	0.78	0.74	1.81	3.34	1.83	1.01	0.81	0.69	0.61	
6	0.64	1.66	2.02	0.76	0.78	1.87	3.35	1.70	1.00	0.80	0.69	0.62	
7	0.62	2.13	2.43	0.78	0.79	2.21	3.31	1.73	1.00	0.80	0.68	0.63	
8	0.61	1.76	2.07	0.89	0.75	3.84	3.09	1.61	0.99	0.79	0.68	0.65	
9	0.60	1.15	2.45	0.87	0.74	4.96	2.93	1.57	0.98	0.79	0.67	0.64	
10	0.59	0.91	2.14	0.88	0.78	5.47	3.11	1.50	0.97	0.78	0.67	0.63	
11	0.59	0.81	1.83	0.99	0.95	5.28	3.33	1.44	0.97	0.78	0.66	0.63	
12	0.58	0.75	1.84	1.11	1.44	5.58	3.23	1.43	0.96	0.77	0.66	0.62	
13	0.58	0.71	1.96	1.02	1.56	5.45	2.92	1.40	0.96	0.77	0.65	0.62	
14	0.58	0.72	1.77	0.90	1.30	5.04	2.73	1.39	0.96	0.76	0.65	0.61	
15	0.57	0.76	1.43	0.85	1.18	4.78	3.04	1.35	0.95	0.76	0.66	0.61	
16	0.57	1.00	1.25	0.81	1.31	4.23	2.94	1.33	0.95	0.76	0.67	0.58	
17	0.57	0.84	1.27	0.79	2.32	3.51	2.55	1.41	0.94	0.75	0.67	0.57	
18	0.75	0.75	1.35	0.77	3.88	3.16	2.30	1.34	0.93	0.75	0.66	0.57	
19	0.74	0.69	1.15	0.76	4.63	2.96	2.20	1.34	0.92	0.74	0.72	0.57	
20	0.93	0.64	1.05	0.74	4.41	3.75	2.24	1.35	0.91	0.74	0.74	0.56	
21	0.78	0.63	1.15	0.74	3.84	3.85	2.54	1.36	0.90	0.73	0.76	0.55	
22	1.05	0.66	1.05	0.72	3.52	4.15	3.04	1.28	0.89	0.73	0.73	0.55	
23	0.86	0.75	1.53	0.70	3.47	3.94	2.71	1.24	0.88	0.73	0.73	0.55	
24	0.84	0.67	1.36	0.79	5.75	4.60	2.53	1.21	0.88	0.72	0.71	0.55	
25	0.86	0.63	1.02	0.76	6.62	4.33	2.40	1.18	0.87	0.72	0.68	0.54	
26	0.78	0.62	0.93	0.74	7.49	4.09	2.20	1.17	0.86	0.72	0.67	0.53	
27	0.71	0.64	0.86	0.87	7.46	4.26	2.05	1.16	0.85	0.72	0.66	0.53	
28	0.68	0.63	0.82	0.78	6.56	4.12	1.95	1.14	0.86	0.72	0.64	0.53	
29	0.78	0.75	0.78	0.73	5.52	3.82	1.79	1.12	0.86	0.72	0.64	0.53	
30	0.84	0.87	0.74	0.70	4.57	3.42	1.71	1.08	0.85	0.71		0.52	
31		0.85		0.68	3.69		1.66		0.85	0.71		0.52	
MEAN	0.71	0.89	1.40	0.80	2.87	3.79	2.72	1.47	0.94	0.76	0.68	0.58	
MAX	1.05	2.13	2.45	1.11	7.49	5.58	3.52	2.77	1.08	0.84	0.76	0.65	7.49
MIN	0.57	0.62	0.74	0.68	0.68	1.81	1.66	1.08	0.85	0.71	0.64	0.52	0.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.64 M (A.D), AT 21.00 HOURS, ON AUG 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.53 M (A.D)
LEFT BANK ELEVATION 14.53 M (A.D)
RIGHT BANK ELEVATION 14.65 M (A.D), DRAINAGE AREA 4340 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.30	10.00	6.52	4.70	3.94	70.40	82.80	28.30	13.00	7.18	4.50	3.04	
2	5.50	7.62	6.96	4.70	3.94	50.50	84.80	68.80	12.50	6.96	4.50	3.04	
3	4.30	7.18	6.96	4.30	3.94	44.90	91.85	47.00	12.00	6.52	4.30	2.86	
4	3.76	5.30	19.30	4.30	5.70	38.50	100.40	40.00	11.50	6.52	4.30	2.86	
5	3.40	16.60	35.80	5.90	5.10	34.30	92.30	34.90	11.25	6.52	4.12	2.68	
6	3.22	29.80	40.70	5.50	5.90	36.10	92.75	31.00	11.00	6.30	4.12	2.86	
7	2.86	44.55	55.20	5.90	6.10	47.35	90.95	31.90	11.00	6.30	3.94	3.04	
8	2.68	32.80	42.45	8.28	5.30	115.00	81.60	28.30	10.75	6.10	3.94	3.40	
9	2.50	14.75	56.00	7.84	5.10	173.80	75.20	27.10	10.50	6.10	3.76	3.22	
10	2.35	8.75	44.90	8.06	5.90	203.20	82.40	25.00	10.25	5.90	3.76	3.04	
11	2.35	6.52	34.90	10.75	9.75	191.80	91.85	23.20	10.25	5.90	3.58	3.04	
12	2.20	5.30	35.20	13.75	23.20	209.80	87.35	22.90	10.00	5.70	3.58	2.86	
13	2.20	4.50	38.80	11.50	26.80	202.00	74.80	22.00	10.00	5.70	3.40	2.86	
14	2.20	4.70	33.10	8.50	19.00	178.20	67.20	21.70	10.00	5.50	3.40	2.68	
15	2.05	5.50	22.90	7.40	15.50	163.90	79.60	20.50	9.75	5.50	3.58	2.68	
16	2.05	11.00	17.50	6.52	19.30	134.50	75.60	19.90	9.75	5.50	3.76	2.20	
17	2.05	7.18	18.10	6.10	51.20	99.95	60.00	22.30	9.50	5.30	3.76	2.05	
18	5.30	5.30	20.50	5.70	117.00	84.40	50.50	20.20	9.25	5.30	3.58	2.05	
19	5.10	4.12	14.75	5.50	155.65	76.40	47.00	20.20	9.00	5.10	4.70	2.05	
20	9.25	3.22	12.25	5.10	143.55	110.75	48.40	20.50	8.75	5.10	5.10	1.90	
21	5.90	3.04	14.75	5.10	115.00	115.50	59.60	20.80	8.50	4.90	5.50	1.75	
22	12.25	3.58	12.25	4.70	100.40	130.50	79.60	18.40	8.28	4.90	4.90	1.75	
23	7.62	5.30	25.90	4.30	98.15	120.00	66.40	17.20	8.06	4.90	4.90	1.75	
24	7.18	3.76	20.80	6.10	220.00	154.00	59.20	16.30	8.06	4.70	4.50	1.75	
25	7.62	3.04	11.50	5.50	274.30	139.50	54.00	15.50	7.84	4.70	3.94	1.60	
26	5.90	2.86	9.25	5.10	330.85	127.50	47.00	15.25	7.62	4.70	3.76	1.45	
27	4.50	3.22	7.62	7.84	328.90	136.00	41.75	15.00	7.40	4.70	3.58	1.45	
28	3.94	3.04	6.74	5.90	270.40	129.00	38.50	14.50	7.62	4.70	3.22	1.45	
29	5.90	5.30	5.90	4.90	206.20	114.00	33.70	14.00	7.62	4.70	3.22	1.45	
30	7.18	7.84	5.10	4.30	152.35	95.90	31.30	13.00	7.40	4.50		1.30	
31		7.40		3.94	108.05		29.80		7.40	4.50		1.30	
TOTAL	137.61	283.07	682.60	197.98	2836.47	3527.65	2098.20	735.65	295.80	170.90	117.20	71.41	11154.54 CMSDAY
MEAN	4.59	9.13	22.75	6.39	91.50	117.59	67.68	24.52	9.54	5.51	4.04	2.30	30.48 CMS
MAX	12.25	44.55	56.00	13.75	330.85	209.80	100.40	68.80	13.00	7.18	5.50	3.40	330.85 CMS
MIN	2.05	2.86	5.10	3.94	3.94	34.30	29.80	13.00	7.40	4.50	3.22	1.30	1.30 CMS
RUNOFF	11.890	24.457	58.977	17.105	245.071	304.789	181.284	63.560	25.557	14.766	10.126	6.170	963.752 MCM

MOMENTARY PEAK 340.60 CMS, AT 7.64 M (A.D), AT 21.00 HOURS, ON AUG 26, 1987
RUNOFF YIELD 7.02 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 78.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

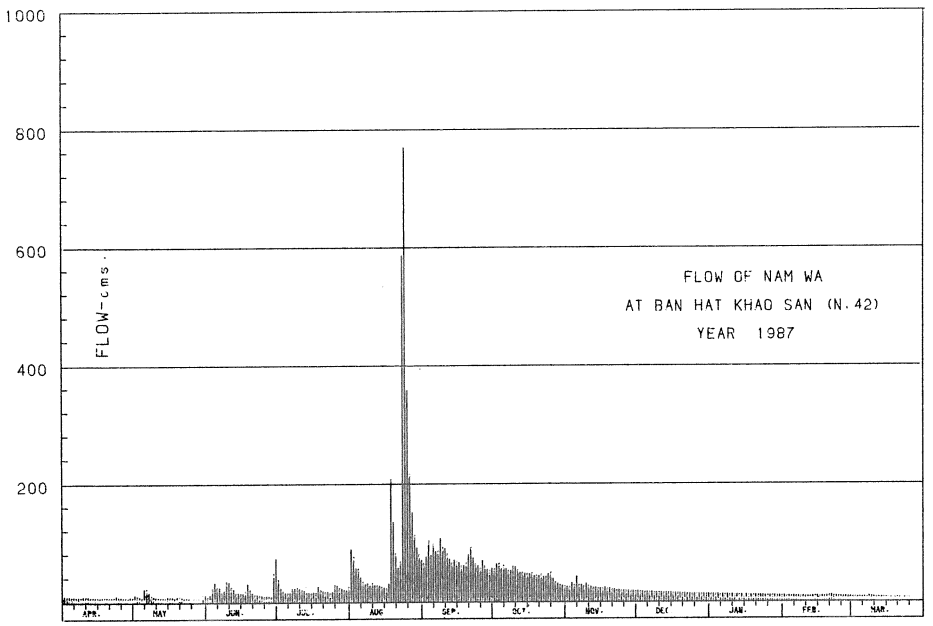
NAM WA AT BAN HAT KHAO SAN, NAN (N.42)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	TOP OF THE GAGE SITE.
ELEVATION	+11.892 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 157 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.67	1.70	1.65	2.07	2.65	2.40	2.28	2.02	1.92	1.84	1.79	1.75	
2	1.66	1.68	1.70	1.86	2.52	2.51	2.38	2.02	1.92	1.84	1.79	1.74	
3	1.66	1.65	1.87	1.80	2.30	2.79	2.39	2.08	1.91	1.84	1.78	1.74	
4	1.65	1.63	2.00	1.75	2.29	2.54	2.28	2.05	1.90	1.84	1.78	1.74	
5	1.65	1.85	1.89	1.75	2.11	2.74	2.35	2.15	1.90	1.83	1.78	1.74	
6	1.64	1.86	1.88	1.75	2.02	2.61	2.28	2.05	1.90	1.83	1.78	1.74	
7	1.64	1.76	1.76	1.87	1.96	2.62	2.25	2.05	1.90	1.83	1.77	1.74	
8	1.64	1.70	1.80	1.86	1.98	2.83	2.25	2.03	1.89	1.83	1.77	1.77	
9	1.66	1.66	2.03	1.88	1.92	2.68	2.33	2.07	1.89	1.83	1.77	1.76	
10	1.66	1.64	2.01	1.85	1.99	2.66	2.32	2.04	1.89	1.83	1.76	1.74	
11	1.65	1.63	1.89	1.83	1.93	2.57	2.26	2.02	1.88	1.83	1.76	1.73	
12	1.64	1.63	1.84	1.80	1.93	2.47	2.21	2.01	1.88	1.82	1.76	1.73	
13	1.64	1.62	1.75	1.76	1.92	2.40	2.21	2.01	1.88	1.82	1.77	1.73	
14	1.64	1.62	1.75	1.75	1.90	2.45	2.19	2.00	1.88	1.82	1.78	1.73	
15	1.63	1.65	1.74	1.75	1.87	2.43	2.19	2.00	1.88	1.82	1.77	1.72	
16	1.63	1.65	1.73	1.76	1.86	2.41	2.18	1.99	1.87	1.82	1.76	1.71	
17	1.63	1.64	1.80	1.76	1.97	2.34	2.20	2.01	1.87	1.81	1.77	1.71	
18	1.64	1.62	1.97	1.90	3.68	2.35	2.14	2.00	1.87	1.81	1.77	1.71	
19	1.64	1.65	1.83	1.83	3.08	2.40	2.15	1.99	1.86	1.81	1.78	1.71	
20	1.63	1.67	1.74	1.79	2.58	2.55	2.14	1.98	1.86	1.81	1.81	1.71	
21	1.63	1.63	1.71	1.78	2.30	2.68	2.17	1.97	1.86	1.81	1.81	1.71	
22	1.64	1.61	1.70	1.78	2.43	2.49	2.12	1.95	1.85	1.81	1.78	1.71	
23	1.67	1.61	1.70	1.75	5.81	2.38	2.12	1.95	1.85	1.81	1.77	1.70	
24	1.65	1.61	1.68	1.77	6.67	2.34	2.18	1.95	1.85	1.80	1.77	1.70	
25	1.64	1.60	1.66	1.95	4.67	2.30	2.21	1.94	1.85	1.80	1.76	1.70	
26	1.63	1.60	1.67	1.93	3.75	2.44	2.13	1.94	1.85	1.80	1.76	1.69	
27	1.62	1.60	1.67	1.87	3.22	2.34	2.09	1.93	1.85	1.80	1.76	1.69	
28	1.62	1.60	1.65	1.85	2.88	2.27	2.07	1.93	1.85	1.80	1.75	1.69	
29	1.64	1.60	2.20	1.83	2.67	2.25	2.05	1.93	1.85	1.79	1.75	1.69	
30	1.64	1.71	2.48	1.81	2.56	2.29	2.04	1.92	1.84	1.79		1.69	
31		1.69		1.90	2.45		2.03		1.84	1.79		1.69	
MEAN	1.64	1.66	1.83	1.83	2.71	2.48	2.20	2.00	1.87	1.82	1.77	1.72	
MAX	1.67	1.86	2.48	2.07	6.67	2.83	2.39	2.15	1.92	1.84	1.81	1.77	6.67
MIN	1.62	1.60	1.65	1.75	1.86	2.25	2.03	1.92	1.84	1.79	1.75	1.69	1.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.70 M (A.D), AT 20.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.38 M (A.D)
LEFT BANK ELEVATION 15.59 M (A.D)
RIGHT BANK ELEVATION 11.38 M (A.D), DRAINAGE AREA 2107 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.20	12.00	9.00	38.60	89.50	66.00	55.80	25.30	17.80	12.90	10.05	8.25	
2	9.60	10.80	12.00	23.20	76.90	75.95	64.30	25.30	17.80	12.90	10.05	7.80	
3	9.60	9.00	23.90	19.00	57.50	103.50	65.15	32.20	17.15	12.90	9.60	7.80	
4	9.00	7.80	33.00	15.50	56.65	78.80	55.80	28.75	16.50	12.90	9.60	7.80	
5	9.00	22.50	25.30	15.50	41.80	98.50	61.75	43.00	16.50	12.30	9.60	7.80	
6	8.40	23.20	24.60	15.50	34.60	85.50	55.80	28.75	16.50	12.30	9.60	7.80	
7	8.40	16.20	16.20	23.90	30.20	86.50	53.25	28.75	16.50	12.30	9.15	7.80	
8	8.40	12.00	19.00	23.20	31.60	107.65	53.25	26.45	15.90	12.30	9.15	9.15	
9	9.60	9.60	35.40	24.60	27.40	92.50	60.05	31.05	15.90	12.30	9.15	8.70	
10	9.60	8.40	33.80	22.50	32.30	90.50	59.20	27.60	15.90	12.30	8.70	7.80	
11	9.00	7.80	25.30	21.10	28.10	81.65	54.10	25.30	15.30	12.30	8.70	7.35	
12	8.40	7.80	21.80	19.00	28.10	72.30	49.85	24.15	15.30	11.70	8.70	7.35	
13	8.40	7.20	15.50	16.20	27.40	66.00	49.85	24.15	15.30	11.70	9.15	7.35	
14	8.40	7.20	15.50	15.50	26.00	70.50	48.20	23.00	15.30	11.70	9.60	7.35	
15	7.80	9.00	14.80	15.50	23.90	68.70	48.20	23.00	15.30	11.70	9.15	6.90	
16	7.80	9.00	14.10	16.20	23.20	66.90	47.40	22.35	14.70	11.70	8.70	6.45	
17	7.80	8.40	19.00	16.20	30.90	60.90	49.00	24.15	14.70	11.10	9.15	6.45	
18	8.40	7.20	30.90	26.00	207.40	61.75	44.20	23.00	14.70	11.10	9.15	6.45	
19	8.40	9.00	21.10	21.10	134.80	66.00	45.00	22.35	14.10	11.10	9.60	6.45	
20	7.80	10.20	14.80	18.30	82.60	79.75	44.20	21.70	14.10	11.10	11.10	6.45	
21	7.80	7.80	12.70	17.60	57.50	92.50	46.60	21.05	14.10	11.10	11.10	6.45	
22	8.40	6.60	12.00	17.60	68.70	74.10	42.60	19.75	13.50	11.10	9.60	6.45	
23	10.20	6.60	12.00	15.50	586.20	64.30	42.60	19.75	13.50	11.10	9.15	6.00	
24	9.00	6.60	10.80	16.90	775.40	60.90	47.40	19.75	13.50	10.50	9.15	6.00	
25	8.40	6.00	9.60	29.50	358.25	57.50	49.85	19.10	13.50	10.50	8.70	6.00	
26	7.80	6.00	10.20	28.10	216.50	69.60	39.60	19.10	13.50	10.50	8.70	5.65	
27	7.20	6.00	10.20	23.90	151.40	60.90	33.35	18.45	13.50	10.50	8.70	5.65	
28	7.20	6.00	9.00	22.50	112.90	54.95	31.05	18.45	13.50	10.50	8.25	5.65	
29	8.40	6.00	49.00	21.10	91.50	53.25	28.75	18.45	13.50	10.05	8.25	5.65	
30	8.40	12.70	73.20	19.70	80.70	56.65	27.60	17.80	12.90	10.05		5.65	
31		11.40		26.00	70.50		26.45		12.90	10.05		5.65	
TOTAL	256.80	296.00	633.70	645.00	3660.40	2224.50	1480.20	721.95	463.15	356.55	269.25	214.05	11221.55 CMSDAY
MEAN	8.56	9.55	21.12	20.81	118.08	74.15	47.75	24.06	14.94	11.50	9.28	6.90	30.66 CMS
MAX	10.20	23.20	73.20	38.60	775.40	107.65	65.15	43.00	17.80	12.90	11.10	9.15	775.40 CMS
MIN	7.20	6.00	9.00	15.50	23.20	53.25	26.45	17.80	12.90	10.05	8.25	5.65	5.65 CMS
RUNOFF	22.188	25.574	54.752	55.728	316.259	192.197	127.889	62.376	40.016	30.806	23.263	18.494	969.542 MCM

MOMENTARY PEAK 1255.00 CMS, AT 8.70 M (A.D), AT 20.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD 14.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 595.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

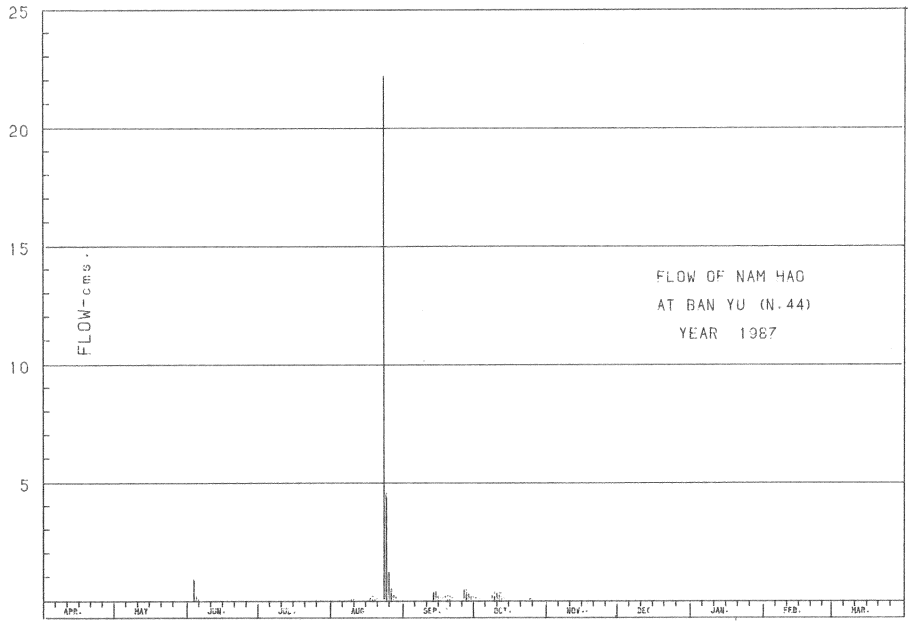
NAM HAO AT BAN NA PHUAK, NAN (N.44)

LOCATION	LAT. 19°-05′-06″ N., LONG. 100°-50′-59″ E., ON RIGHT BANK DOWNSTREAM OF THE BRIDGE, ALONG THA WANG PHA-SILA PHET ROAD AT BAN NA PHUAK, TAMBON YOM, AMPHOE THA WANG PHA, NAN.
DRAINAGE AREA	41 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 50 METERS FROM THE GAGE SITE.
ELEVATION	+6.752 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.30	0.25	0.36	0.43	0.52	0.56	0.47	0.46	0.40	0.38	0.37	
2	0.26	0.28	0.24	0.36	0.42	0.54	0.55	0.47	0.46	0.40	0.36	0.38	
3	0.27	0.26	0.77	0.37	0.43	0.54	0.55	0.47	0.46	0.40	0.36	0.38	
4	0.28	0.25	0.59	0.37	0.46	0.54	0.55	0.48	0.46	0.40	0.38	0.39	
5	0.27	0.25	0.52	0.37	0.45	0.54	0.54	0.47	0.46	0.40	0.37	0.39	
6	0.26	0.27	0.43	0.38	0.44	0.53	0.54	0.47	0.46	0.40	0.37	0.38	
7	0.26	0.26	0.38	0.40	0.44	0.53	0.53	0.46	0.46	0.40	0.37	0.38	
8	0.26	0.26	0.37	0.39	0.49	0.54	0.60	0.46	0.46	0.40	0.38	0.38	
9	0.26	0.26	0.39	0.38	0.51	0.56	0.65	0.46	0.46	0.40	0.38	0.38	
10	0.25	0.25	0.37	0.38	0.52	0.56	0.63	0.45	0.45	0.40	0.37	0.37	
11	0.24	0.25	0.38	0.40	0.47	0.56	0.61	0.45	0.44	0.40	0.38	0.39	
12	0.22	0.25	0.38	0.39	0.46	0.56	0.57	0.44	0.44	0.41	0.37	0.39	
13	0.19	0.25	0.39	0.37	0.45	0.70	0.55	0.44	0.43	0.42	0.38	0.30	
14	0.19	0.25	0.38	0.38	0.45	0.65	0.53	0.44	0.43	0.40	0.38	0.38	
15	0.19	0.24	0.38	0.39	0.44	0.60	0.52	0.44	0.42	0.39	0.38	0.39	
16	0.19	0.24	0.38	0.39	0.46	0.57	0.51	0.44	0.42	0.38	0.37	0.39	
17	0.20	0.24	0.38	0.40	0.54	0.56	0.51	0.44	0.42	0.38	0.36	0.39	
18	0.23	0.24	0.39	0.39	0.60	0.59	0.50	0.44	0.41	0.38	0.36	0.39	
19	0.22	0.24	0.39	0.38	0.57	0.61	0.50	0.43	0.41	0.38	0.37	0.39	
20	0.22	0.23	0.39	0.38	0.53	0.59	0.49	0.44	0.40	0.38	0.37	0.38	
21	0.22	0.22	0.38	0.37	0.52	0.57	0.49	0.44	0.41	0.37	0.37	0.37	
22	0.25	0.22	0.38	0.38	0.51	0.55	0.50	0.44	0.39	0.39	0.37	0.35	
23	0.23	0.22	0.37	0.37	1.74	0.54	0.49	0.44	0.40	0.37	0.37	0.30	
24	0.22	0.22	0.37	0.40	1.12	0.53	0.51	0.46	0.40	0.34	0.37	0.33	
25	0.22	0.22	0.36	0.50	0.82	0.52	0.50	0.46	0.40	0.34	0.37	0.32	
26	0.22	0.21	0.36	0.45	0.69	0.67	0.49	0.46	0.40	0.34	0.37	0.33	
27	0.21	0.21	0.36	0.46	0.61	0.68	0.50	0.46	0.40	0.34	0.37	0.33	
28	0.21	0.21	0.37	0.45	0.58	0.62	0.49	0.46	0.39	0.34	0.37	0.36	
29	0.20	0.37	0.38	0.43	0.54	0.59	0.48	0.46	0.39	0.34	0.37	0.35	
30	0.26	0.31	0.37	0.43	0.54	0.58	0.48	0.46	0.39	0.35		0.34	
31		0.27		0.43	0.53		0.48		0.40	0.39		0.35	
MEAN	0.23	0.25	0.39	0.40	0.57	0.57	0.53	0.45	0.43	0.38	0.37	0.37	
MAX	0.28	0.37	0.77	0.50	1.74	0.70	0.65	0.48	0.46	0.42	0.38	0.39	1.74
MIN	0.19	0.21	0.24	0.36	0.42	0.52	0.48	0.43	0.39	0.34	0.36	0.30	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.60 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.34 M (A.D)
LEFT BANK ELEVATION 4.71 M (A.D)
RIGHT BANK ELEVATION 5.15 M (A.D), DRAINAGE AREA 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.004	0.004	0.004	0.007	0.020	0.078	0.141	0.035	0.031	0.009	0.008	0.007	
2	0.004	0.004	0.000	0.007	0.016	0.110	0.125	0.035	0.031	0.009	0.007	0.008	
3	0.004	0.004	0.921	0.007	0.020	0.110	0.125	0.035	0.031	0.009	0.007	0.008	
4	0.004	0.004	0.189	0.007	0.031	0.110	0.125	0.039	0.031	0.009	0.008	0.008	
5	0.004	0.004	0.078	0.007	0.027	0.110	0.110	0.035	0.031	0.009	0.007	0.008	
6	0.004	0.004	0.020	0.008	0.024	0.094	0.110	0.035	0.031	0.009	0.007	0.008	
7	0.004	0.004	0.008	0.009	0.024	0.094	0.094	0.031	0.031	0.009	0.007	0.008	
8	0.004	0.004	0.007	0.008	0.042	0.110	0.205	0.031	0.031	0.009	0.008	0.008	
9	0.004	0.004	0.008	0.008	0.062	0.141	0.377	0.031	0.031	0.009	0.008	0.008	
10	0.004	0.004	0.007	0.008	0.078	0.141	0.308	0.027	0.027	0.009	0.007	0.007	
11	0.000	0.004	0.008	0.009	0.035	0.141	0.239	0.027	0.024	0.009	0.008	0.008	
12	0.000	0.004	0.008	0.008	0.031	0.141	0.157	0.024	0.024	0.013	0.007	0.008	
13	0.000	0.004	0.008	0.007	0.027	0.550	0.125	0.024	0.020	0.016	0.008	0.004	
14	0.000	0.004	0.008	0.008	0.027	0.377	0.094	0.024	0.020	0.009	0.008	0.008	
15	0.000	0.000	0.008	0.008	0.024	0.205	0.078	0.024	0.016	0.008	0.008	0.008	
16	0.000	0.000	0.008	0.008	0.031	0.157	0.062	0.024	0.016	0.008	0.007	0.008	
17	0.000	0.000	0.008	0.009	0.110	0.141	0.062	0.024	0.016	0.008	0.007	0.008	
18	0.000	0.000	0.008	0.008	0.205	0.189	0.046	0.024	0.013	0.008	0.007	0.008	
19	0.000	0.000	0.008	0.008	0.157	0.239	0.046	0.020	0.013	0.008	0.007	0.008	
20	0.000	0.000	0.008	0.008	0.094	0.189	0.042	0.024	0.009	0.008	0.007	0.008	
21	0.000	0.000	0.008	0.007	0.078	0.157	0.042	0.024	0.013	0.007	0.007	0.007	
22	0.004	0.000	0.008	0.008	0.062	0.125	0.046	0.024	0.008	0.008	0.007	0.006	
23	0.000	0.000	0.007	0.007	22.200	0.110	0.042	0.024	0.009	0.007	0.007	0.004	
24	0.000	0.000	0.007	0.009	4.560	0.094	0.062	0.031	0.009	0.006	0.007	0.006	
25	0.000	0.000	0.007	0.046	1.214	0.078	0.046	0.031	0.009	0.006	0.007	0.005	
26	0.000	0.000	0.007	0.027	0.516	0.447	0.042	0.031	0.009	0.006	0.007	0.006	
27	0.000	0.000	0.007	0.031	0.239	0.481	0.046	0.031	0.009	0.006	0.007	0.006	
28	0.000	0.000	0.007	0.027	0.173	0.274	0.042	0.031	0.008	0.006	0.007	0.007	
29	0.000	0.007	0.008	0.020	0.110	0.189	0.039	0.031	0.008	0.006	0.007	0.006	
30	0.004	0.005	0.007	0.020	0.110	0.173	0.039	0.031	0.008	0.006		0.006	
31		0.004		0.020	0.094		0.039		0.009	0.008		0.006	
TOTAL	0.048	0.072	1.395	0.379	30.441	5.555	3.156	0.862	0.576	0.257	0.211	0.219	43.171 CMSDAY
MEAN	0.002	0.002	0.046	0.012	0.982	0.185	0.102	0.029	0.019	0.008	0.007	0.007	0.118 CMS
MAX	0.004	0.007	0.921	0.046	22.200	0.550	0.377	0.039	0.031	0.016	0.008	0.008	22.200 CMS
MIN	0.000	0.000	0.000	0.007	0.016	0.078	0.039	0.020	0.008	0.006	0.007	0.004	0.000 CMS
RUNOFF	0.004	0.006	0.121	0.033	2.630	0.480	0.273	0.074	0.050	0.022	0.018	0.019	3.730 MCM

MOMENTARY PEAK 73.80 CMS, AT 2.60 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987

RUNOFF YIELD 2.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1800.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

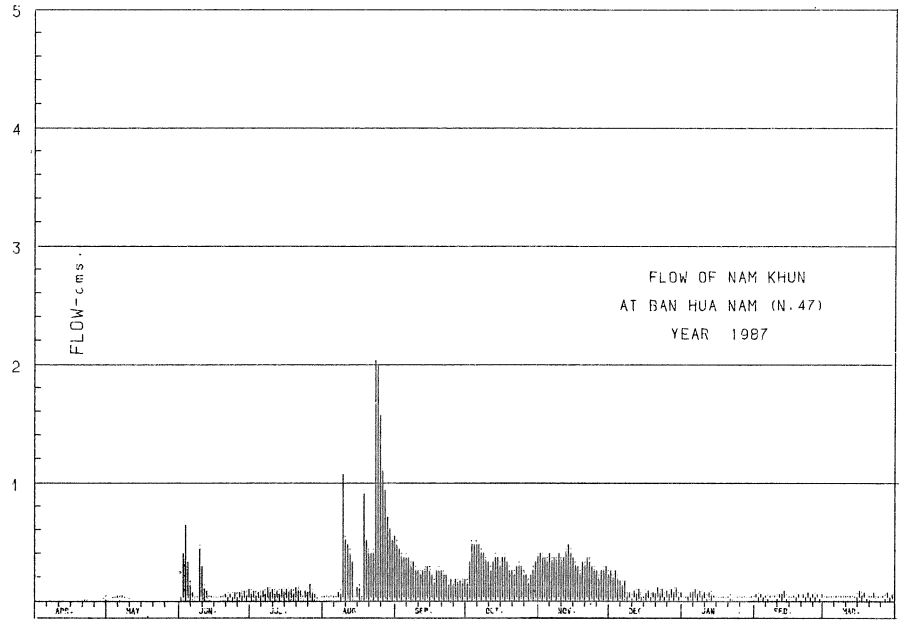
NAM KHUN AT BAN HUA NAM, NAN (N.47)

LOCATION	LAT. 19°-08'-36" N., LONG. 100°-57'-08" E., ON LEFT BANK NEAR WAT PA MUAT AT BAN HUA NAM, AMPHOE PUA, NAN.
DRAINAGE AREA	35 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE GAGE OBSERVER'S HOUSE.
ELEVATION	+15.652 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.70	1.76	1.80	1.84	1.79	1.99	1.90	1.96	1.92	1.79	1.81	1.80	
2	1.69	1.75	1.96	1.83	1.80	1.97	1.94	1.96	1.91	1.78	1.82	1.79	
3	1.70	1.77	2.02	1.83	1.78	1.96	1.99	1.95	1.92	1.82	1.81	1.79	
4	1.69	1.78	1.94	1.82	1.80	1.95	1.98	1.95	1.91	1.82	1.82	1.79	
5	1.70	1.80	1.89	1.83	1.79	1.96	1.99	1.96	1.89	1.85	1.80	1.80	
6	1.69	1.80	1.82	1.83	1.79	1.95	1.98	1.95	1.89	1.84	1.81	1.80	
7	1.68	1.80	1.78	1.84	1.82	1.94	1.97	1.95	1.89	1.84	1.80	1.80	
8	1.67	1.78	1.79	1.85	1.84	1.94	1.96	1.95	1.82	1.83	1.80	1.80	
9	1.66	1.77	1.98	1.85	2.08	1.93	1.95	1.96	1.82	1.83	1.80	1.80	
10	1.65	1.75	1.93	1.84	2.00	1.92	1.94	1.95	1.81	1.82	1.81	1.80	
11	1.65	1.73	1.87	1.84	1.98	1.92	1.93	1.95	1.83	1.81	1.81	1.80	
12	1.64	1.71	1.83	1.83	1.97	1.92	1.94	1.97	1.84	1.82	1.84	1.80	
13	1.64	1.69	1.80	1.84	1.94	1.93	1.96	1.98	1.84	1.83	1.83	1.80	
14	1.65	1.67	1.79	1.84	1.79	1.93	1.95	1.97	1.82	1.80	1.81	1.79	
15	1.66	1.68	1.78	1.85	1.85	1.93	1.94	1.95	1.78	1.79	1.79	1.82	
16	1.65	1.69	1.77	1.84	1.87	1.91	1.95	1.94	1.84	1.78	1.78	1.83	
17	1.65	1.70	1.78	1.85	1.79	1.90	1.96	1.93	1.83	1.78	1.80	1.83	
18	1.66	1.65	1.79	1.84	2.06	1.92	1.94	1.92	1.82	1.78	1.82	1.82	
19	1.69	1.65	1.80	1.84	1.99	1.93	1.93	1.94	1.82	1.77	1.81	1.81	
20	1.71	1.65	1.81	1.85	1.97	1.92	1.92	1.94	1.84	1.79	1.80	1.80	
21	1.73	1.65	1.82	1.86	1.96	1.92	1.92	1.95	1.85	1.81	1.81	1.80	
22	1.72	1.65	1.81	1.83	1.97	1.91	1.93	1.95	1.84	1.77	1.82	1.82	
23	1.71	1.65	1.82	1.80	2.19	1.89	1.94	1.93	1.84	1.77	1.82	1.80	
24	1.72	1.65	1.82	1.83	2.19	1.90	1.93	1.93	1.82	1.78	1.82	1.79	
25	1.73	1.65	1.82	1.85	2.14	1.89	1.92	1.92	1.83	1.79	1.81	1.79	
26	1.74	1.65	1.82	1.87	2.09	1.90	1.91	1.91	1.84	1.78	1.82	1.80	
27	1.73	1.65	1.83	1.84	2.06	1.90	1.90	1.92	1.84	1.79	1.81	1.81	
28	1.73	1.65	1.83	1.81	2.03	1.89	1.91	1.93	1.85	1.77	1.81	1.82	
29	1.75	1.65	1.83	1.76	2.01	1.90	1.93	1.93	1.85	1.78	1.81	1.82	
30	1.80	1.65	1.84	1.77	2.00	1.90	1.94	1.92	1.82	1.79		1.81	
31		1.65		1.78	2.00		1.96		1.82	1.80		1.80	
MEAN	1.69	1.70	1.84	1.83	1.95	1.92	1.94	1.94	1.85	1.80	1.81	1.80	
MAX	1.80	1.80	2.02	1.87	2.19	1.99	1.99	1.98	1.92	1.85	1.84	1.83	2.19
MIN	1.64	1.65	1.77	1.76	1.78	1.89	1.90	1.91	1.78	1.77	1.78	1.79	1.64

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.30 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.22 M (A.D)
LEFT BANK ELEVATION 2.65 M (A.D)
RIGHT BANK ELEVATION 6.67 M (A.D), DRAINAGE AREA 35 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.003	0.028	0.044	0.100	0.040	0.514	0.185	0.404	0.258	0.040	0.058	0.044	
2	0.002	0.024	0.404	0.086	0.044	0.441	0.331	0.404	0.221	0.036	0.072	0.040	
3	0.003	0.032	0.680	0.086	0.036	0.404	0.514	0.368	0.258	0.072	0.058	0.040	
4	0.002	0.036	0.331	0.072	0.044	0.368	0.477	0.368	0.221	0.072	0.072	0.040	
5	0.003	0.044	0.171	0.086	0.040	0.404	0.514	0.404	0.171	0.115	0.044	0.044	
6	0.002	0.044	0.072	0.086	0.040	0.368	0.477	0.368	0.171	0.100	0.058	0.044	
7	0.002	0.044	0.036	0.100	0.072	0.331	0.441	0.368	0.171	0.100	0.044	0.044	
8	0.001	0.036	0.040	0.115	0.100	0.331	0.404	0.368	0.072	0.086	0.044	0.044	
9	0.001	0.032	0.477	0.115	1.070	0.294	0.368	0.404	0.072	0.086	0.044	0.044	
10	0.000	0.024	0.294	0.100	0.550	0.258	0.331	0.368	0.058	0.072	0.058	0.044	
11	0.000	0.015	0.143	0.100	0.477	0.258	0.294	0.368	0.086	0.058	0.058	0.044	
12	0.000	0.007	0.086	0.086	0.441	0.258	0.331	0.441	0.100	0.072	0.100	0.044	
13	0.000	0.002	0.044	0.100	0.331	0.294	0.404	0.477	0.100	0.086	0.086	0.044	
14	0.000	0.001	0.040	0.100	0.040	0.294	0.368	0.441	0.072	0.044	0.058	0.040	
15	0.001	0.002	0.036	0.115	0.115	0.294	0.331	0.368	0.036	0.040	0.040	0.072	
16	0.000	0.002	0.032	0.100	0.143	0.221	0.368	0.331	0.100	0.036	0.036	0.086	
17	0.000	0.003	0.036	0.115	0.040	0.185	0.404	0.294	0.086	0.036	0.044	0.086	
18	0.001	0.000	0.040	0.100	0.940	0.258	0.331	0.258	0.072	0.036	0.072	0.072	
19	0.002	0.000	0.044	0.100	0.514	0.294	0.294	0.331	0.072	0.032	0.058	0.058	
20	0.007	0.000	0.058	0.115	0.441	0.258	0.258	0.331	0.100	0.040	0.044	0.044	
21	0.015	0.000	0.072	0.129	0.404	0.258	0.258	0.368	0.115	0.058	0.058	0.044	
22	0.011	0.000	0.058	0.086	0.441	0.221	0.294	0.368	0.100	0.032	0.072	0.072	
23	0.007	0.000	0.072	0.044	2.037	0.171	0.331	0.294	0.100	0.032	0.072	0.044	
24	0.011	0.000	0.072	0.086	2.037	0.185	0.294	0.294	0.072	0.036	0.072	0.040	
25	0.015	0.000	0.072	0.115	1.572	0.171	0.258	0.258	0.086	0.040	0.058	0.040	
26	0.019	0.000	0.072	0.143	1.135	0.185	0.221	0.221	0.100	0.036	0.072	0.044	
27	0.015	0.000	0.086	0.100	0.940	0.185	0.185	0.258	0.100	0.040	0.058	0.058	
28	0.015	0.000	0.086	0.058	0.745	0.171	0.221	0.294	0.115	0.032	0.058	0.072	
29	0.024	0.000	0.086	0.028	0.615	0.185	0.294	0.294	0.115	0.036	0.058	0.072	
30	0.044	0.000	0.100	0.032	0.550	0.185	0.331	0.258	0.072	0.040		0.058	
31		0.000		0.036	0.550		0.404		0.072	0.044		0.044	
TOTAL	0.206	0.376	3.884	2.834	16.544	8.244	10.516	10.371	3.544	1.685	1.726	1.606	61.536 CMSDAY
MEAN	0.007	0.012	0.129	0.091	0.534	0.275	0.339	0.346	0.114	0.054	0.060	0.052	0.168 CMS
MAX	0.044	0.044	0.680	0.143	2.037	0.514	0.514	0.477	0.258	0.115	0.100	0.086	2.037 CMS
MIN	0.000	0.000	0.032	0.028	0.036	0.171	0.185	0.221	0.036	0.032	0.036	0.040	0.000 CMS
RUNOFF	0.018	0.032	0.336	0.245	1.429	0.712	0.909	0.896	0.306	0.146	0.149	0.139	5.317 MCM

MOMENTARY PEAK 3.32 CMS, AT 2.30 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD 4.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 94.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

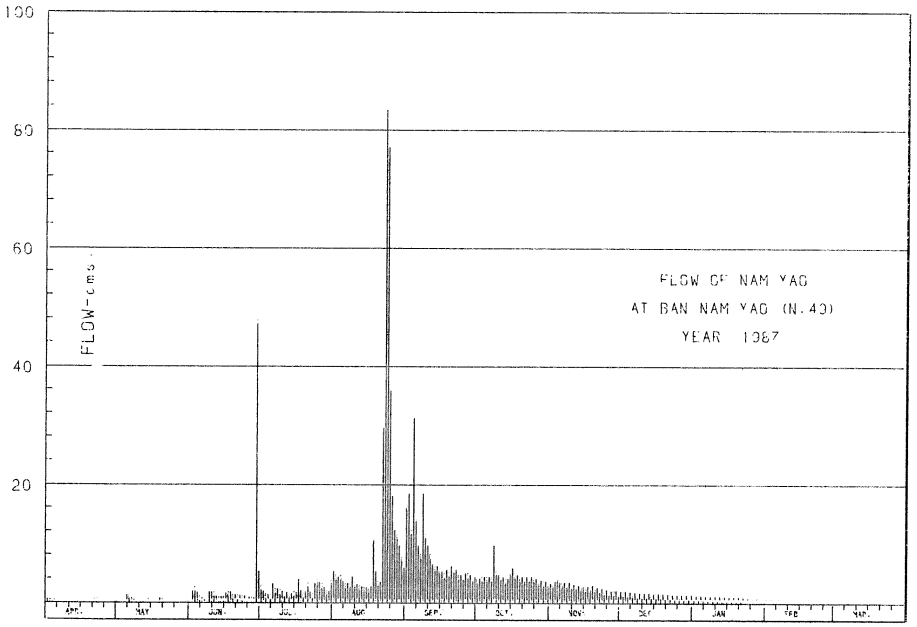
NAM YAO AT BAN NAM YAO, NAN (N.49)

LOCATION	LAT. 18°-59'-29" N., LONG. 100°-56'-32" E., ON RIGHT BANK DOWNSTREAM OF THE BRIDGE OF NAM YAO, ALONG PUA-SILA PHET ROAD AT BAN NAM YAO, AMPHOE PUA, NAN.
DRAINAGE AREA	155 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP STAFF GAGE.
ELEVATION	+6.052 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.25	1.24	1.24	1.45	1.55	1.77	1.51	1.47	1.39	1.32	1.27	1.24	
2	1.25	1.23	1.39	1.39	1.53	1.80	1.51	1.48	1.39	1.32	1.27	1.24	
3	1.25	1.23	1.44	1.35	1.52	1.71	1.52	1.49	1.39	1.32	1.27	1.24	
4	1.24	1.23	1.37	1.33	1.53	1.93	1.52	1.52	1.38	1.32	1.27	1.24	
5	1.24	1.32	1.31	1.33	1.49	1.74	1.52	1.48	1.38	1.32	1.27	1.24	
6	1.24	1.34	1.28	1.47	1.47	1.66	1.52	1.48	1.37	1.31	1.27	1.24	
7	1.24	1.28	1.24	1.42	1.47	1.63	1.52	1.48	1.37	1.31	1.26	1.25	
8	1.25	1.25	1.24	1.42	1.47	1.80	1.66	1.48	1.36	1.31	1.26	1.25	
9	1.25	1.23	1.43	1.41	1.52	1.70	1.55	1.48	1.36	1.31	1.26	1.24	
10	1.24	1.24	1.38	1.39	1.48	1.66	1.53	1.47	1.36	1.31	1.26	1.24	
11	1.24	1.24	1.38	1.38	1.46	1.63	1.53	1.46	1.36	1.31	1.26	1.24	
12	1.24	1.25	1.31	1.37	1.45	1.59	1.52	1.46	1.36	1.31	1.26	1.24	
13	1.24	1.26	1.29	1.36	1.44	1.58	1.51	1.45	1.36	1.30	1.26	1.23	
14	1.24	1.26	1.30	1.35	1.43	1.58	1.51	1.45	1.36	1.30	1.26	1.23	
15	1.24	1.25	1.30	1.39	1.43	1.57	1.56	1.44	1.35	1.30	1.26	1.23	
16	1.24	1.24	1.36	1.37	1.43	1.55	1.57	1.44	1.35	1.30	1.26	1.23	
17	1.24	1.23	1.38	1.53	1.44	1.54	1.54	1.44	1.35	1.30	1.26	1.23	
18	1.24	1.22	1.38	1.40	1.69	1.56	1.53	1.44	1.35	1.30	1.26	1.23	
19	1.24	1.27	1.34	1.36	1.55	1.55	1.52	1.45	1.35	1.30	1.27	1.23	
20	1.24	1.26	1.33	1.38	1.49	1.58	1.52	1.44	1.34	1.30	1.27	1.23	
21	1.26	1.24	1.33	1.48	1.48	1.57	1.52	1.43	1.34	1.30	1.26	1.23	
22	1.27	1.23	1.32	1.38	1.92	1.56	1.52	1.43	1.34	1.29	1.26	1.22	
23	1.24	1.23	1.31	1.35	2.27	1.53	1.52	1.42	1.33	1.28	1.25	1.22	
24	1.24	1.22	1.31	1.47	2.24	1.53	1.52	1.41	1.33	1.28	1.24	1.22	
25	1.23	1.22	1.29	1.50	1.97	1.53	1.52	1.41	1.33	1.28	1.24	1.21	
26	1.23	1.22	1.29	1.48	1.80	1.54	1.51	1.40	1.33	1.27	1.24	1.21	
27	1.22	1.22	1.29	1.47	1.71	1.54	1.50	1.40	1.33	1.27	1.24	1.21	
28	1.22	1.22	1.28	1.43	1.70	1.53	1.50	1.40	1.33	1.27	1.24	1.21	
29	1.22	1.22	2.06	1.40	1.66	1.52	1.49	1.40	1.33	1.27	1.24	1.21	
30	1.25	1.22	1.55	1.39	1.62	1.52	1.49	1.39	1.33	1.27		1.21	
31		1.23		1.50	1.57		1.48		1.33	1.27		1.21	
MEAN	1.24	1.24	1.36	1.41	1.61	1.62	1.52	1.45	1.35	1.30	1.26	1.23	
MAX	1.27	1.34	2.06	1.53	2.27	1.93	1.66	1.52	1.39	1.32	1.27	1.25	2.27
MIN	1.22	1.22	1.24	1.33	1.43	1.52	1.48	1.39	1.33	1.27	1.24	1.21	1.21

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.78 M (A.D), AT 17.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.05 M (A.D)
LEFT BANK ELEVATION 8.08 M (A.D)
RIGHT BANK ELEVATION 10.00 M (A.D), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.40	0.40	2.90	5.30	16.43	4.10	3.26	1.90	1.20	0.70	0.40	
2	0.50	0.30	1.90	1.90	4.70	18.50	4.10	3.44	1.90	1.20	0.70	0.40	
3	0.50	0.30	2.72	1.50	4.40	12.29	4.40	3.62	1.90	1.20	0.70	0.40	
4	0.40	0.30	1.70	1.30	4.70	31.25	4.40	4.40	1.80	1.20	0.70	0.40	
5	0.40	1.20	1.10	1.30	3.62	14.36	4.40	3.44	1.80	1.20	0.70	0.40	
6	0.40	1.40	0.80	3.26	3.26	9.68	4.40	3.44	1.70	1.10	0.70	0.40	
7	0.40	0.80	0.40	2.36	3.26	8.24	4.40	3.44	1.70	1.10	0.60	0.50	
8	0.50	0.50	0.40	2.36	3.26	18.50	9.68	3.44	1.60	1.10	0.60	0.50	
9	0.50	0.30	2.54	2.18	4.40	11.60	5.30	3.44	1.60	1.10	0.60	0.40	
10	0.40	0.40	1.80	1.90	3.44	9.68	4.70	3.26	1.60	1.10	0.60	0.40	
11	0.40	0.40	1.80	1.80	3.08	8.24	4.70	3.08	1.60	1.10	0.60	0.40	
12	0.40	0.50	1.10	1.70	2.90	6.50	4.40	3.08	1.60	1.10	0.60	0.40	
13	0.40	0.60	0.90	1.60	2.72	6.20	4.10	2.90	1.60	1.00	0.60	0.30	
14	0.40	0.60	1.00	1.50	2.54	6.20	4.10	2.90	1.60	1.00	0.60	0.30	
15	0.40	0.50	1.00	1.90	2.54	5.90	5.60	2.72	1.50	1.00	0.60	0.30	
16	0.40	0.40	1.60	1.70	2.54	5.30	5.90	2.72	1.50	1.00	0.60	0.30	
17	0.40	0.30	1.80	4.70	2.72	5.00	5.00	2.72	1.50	1.00	0.60	0.30	
18	0.40	0.20	1.80	2.00	11.12	5.60	4.70	2.72	1.50	1.00	0.60	0.30	
19	0.40	0.70	1.40	1.60	5.30	5.30	4.40	2.90	1.50	1.00	0.70	0.30	
20	0.40	0.60	1.30	1.80	3.62	6.20	4.40	2.72	1.40	1.00	0.70	0.30	
21	0.60	0.40	1.30	3.44	3.44	5.90	4.40	2.54	1.40	1.00	0.60	0.30	
22	0.70	0.30	1.20	1.80	30.10	5.60	4.40	2.54	1.40	0.90	0.60	0.20	
23	0.40	0.30	1.10	1.50	83.37	4.70	4.40	2.36	1.30	0.80	0.50	0.20	
24	0.40	0.20	1.10	3.26	77.64	4.70	4.40	2.18	1.30	0.80	0.40	0.20	
25	0.30	0.20	0.90	3.80	35.85	4.70	4.40	2.18	1.30	0.80	0.40	0.10	
26	0.30	0.20	0.90	3.44	18.50	5.00	4.10	2.00	1.30	0.70	0.40	0.10	
27	0.20	0.20	0.90	3.26	12.29	5.00	3.80	2.00	1.30	0.70	0.40	0.10	
28	0.20	0.20	0.80	2.54	11.60	4.70	3.80	2.00	1.30	0.70	0.40	0.10	
29	0.20	0.20	47.82	2.00	9.68	4.40	3.62	2.00	1.30	0.70	0.40	0.10	
30	0.50	0.20	5.30	1.90	7.76	4.40	3.62	1.90	1.30	0.70		0.10	
31		0.30		3.80	5.90		3.44		1.30	0.70		0.10	
TOTAL	12.30	13.40	88.78	72.00	375.55	260.07	141.56	85.34	47.30	30.20	16.90	9.00	1152.40 CMSDAY
MEAN	0.41	0.43	2.96	2.32	12.11	8.67	4.57	2.84	1.53	0.97	0.58	0.29	3.15 CMS
MAX	0.70	1.40	47.82	4.70	83.37	31.25	9.68	4.40	1.90	1.20	0.70	0.50	83.37 CMS
MIN	0.20	0.20	0.40	1.30	2.54	4.40	3.44	1.90	1.30	0.70	0.40	0.10	0.10 CMS
RUNOFF	1.063	1.158	7.671	6.221	32.448	22.470	12.231	7.373	4.087	2.609	1.460	0.778	99.567 MCM

MOMENTARY PEAK 244.80 CMS, AT 2.78 M (A.D), AT 17.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD 20.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1579.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

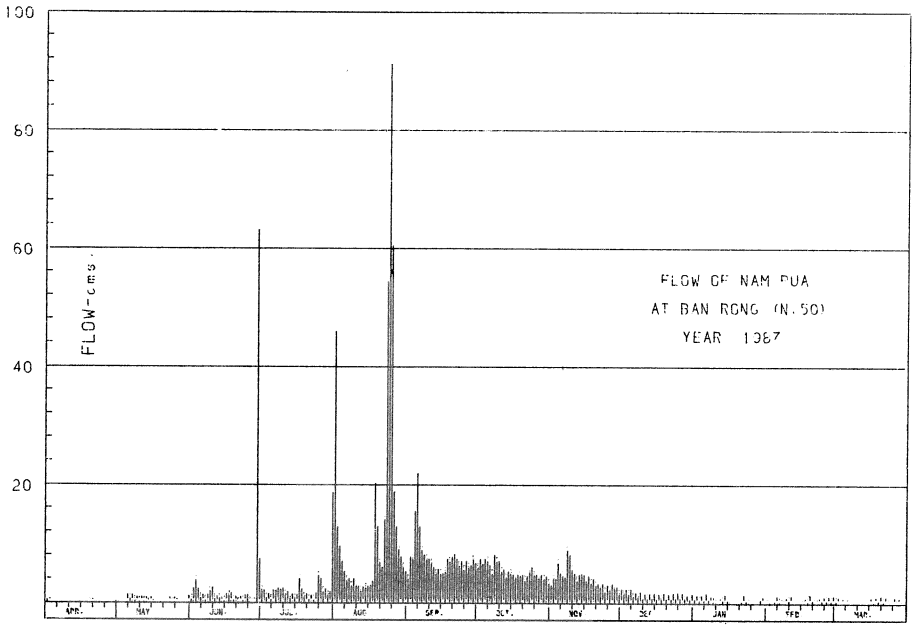
NAM PUA AT BAN RONG, NAN (N.50)

LOCATION	LAT. 19°-11'-38" N., LONG. 100°-55'-14" E., ON LEFT BANK DOWNSTREAM OF THE BRIDGE OF NAM PUA, ALONG PUA-THUNG CHANG ROAD AT BAN RONG, AMPHOE PUA, NAN.
DRAINAGE AREA	192 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.361 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.02	0.15	0.30	0.92	0.39	0.45	0.31	0.26	0.18	0.05	0.12	
2	0.03	0.01	0.27	0.24	0.59	0.48	0.47	0.39	0.26	0.14	0.08	0.09	
3	0.00	0.02	0.38	0.19	0.52	0.49	0.47	0.36	0.26	0.14	0.02	0.05	
4	0.00	0.05	0.26	0.18	0.48	0.62	0.47	0.47	0.26	0.14	0.10	0.07	
5	0.01	0.15	0.20	0.15	0.41	0.71	0.48	0.40	0.26	0.15	0.13	0.07	
6	0.01	0.17	0.15	0.24	0.38	0.58	0.44	0.41	0.22	0.20	0.10	0.05	
7	0.01	0.15	0.13	0.30	0.36	0.52	0.42	0.37	0.21	0.16	0.05	0.03	
8	0.01	0.11	0.15	0.27	0.34	0.49	0.49	0.52	0.22	0.11	0.03	0.04	
9	0.00	0.09	0.29	0.31	0.36	0.49	0.48	0.49	0.22	0.10	0.08	0.06	
10	0.00	0.09	0.28	0.27	0.34	0.47	0.46	0.44	0.19	0.04	0.13	0.02	
11	0.00	0.09	0.17	0.24	0.30	0.47	0.43	0.40	0.19	0.05	0.13	0.02	
12	0.00	0.09	0.11	0.22	0.30	0.43	0.42	0.38	0.19	0.06	0.04	0.02	
13	0.00	0.08	0.18	0.19	0.29	0.42	0.40	0.39	0.19	0.13	0.03	0.01	
14	0.00	0.04	0.07	0.17	0.32	0.42	0.41	0.42	0.19	0.16	0.02	0.01	
15	0.00	0.08	0.11	0.18	0.30	0.42	0.42	0.39	0.20	0.13	0.03	0.06	
16	0.00	0.02	0.18	0.16	0.33	0.40	0.39	0.38	0.18	0.04	0.02	0.08	
17	0.00	0.01	0.23	0.39	0.34	0.43	0.40	0.38	0.18	0.03	0.06	0.09	
18	0.00	0.01	0.20	0.26	0.69	0.47	0.39	0.36	0.17	0.04	0.10	0.10	
19	0.03	0.01	0.13	0.21	0.58	0.48	0.41	0.36	0.20	0.04	0.16	0.13	
20	0.02	0.01	0.10	0.18	0.47	0.48	0.39	0.34	0.18	0.04	0.14	0.13	
21	0.01	0.00	0.08	0.16	0.43	0.51	0.38	0.32	0.17	0.10	0.05	0.11	
22	0.00	0.01	0.09	0.14	0.61	0.47	0.38	0.33	0.18	0.16	0.05	0.10	
23	0.01	0.07	0.12	0.14	0.98	0.46	0.42	0.32	0.20	0.13	0.07	0.06	
24	0.00	0.05	0.14	0.20	1.20	0.46	0.43	0.29	0.20	0.05	0.12	0.01	
25	0.00	0.07	0.24	0.41	1.02	0.44	0.41	0.31	0.21	0.06	0.11	0.02	
26	0.00	0.03	0.08	0.36	0.67	0.46	0.39	0.31	0.20	0.03	0.13	0.09	
27	0.01	0.00	0.06	0.29	0.58	0.45	0.40	0.32	0.20	0.00	0.12	0.04	
28	0.00	0.00	0.06	0.26	0.52	0.44	0.39	0.32	0.19	0.00	0.12	0.07	
29	0.01	0.02	1.04	0.24	0.48	0.49	0.39	0.29	0.14	0.14	0.13	0.01	
30	0.09	0.06	0.47	0.22	0.45	0.45	0.38	0.26	0.17	0.10		0.00	
31		0.12		0.67	0.41		0.36		0.18	0.05		0.00	
MEAN	0.01	0.06	0.20	0.25	0.52	0.48	0.42	0.37	0.20	0.09	0.08	0.06	
MAX	0.09	0.17	1.04	0.67	1.20	0.71	0.49	0.52	0.26	0.20	0.16	0.13	1.20
MIN	0.00	0.00	0.06	0.14	0.29	0.39	0.36	0.26	0.14	0.00	0.02	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.26 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.46 M (A.D)
LEFT BANK ELEVATION 2.27 M (A.D)
RIGHT BANK ELEVATION 3.98 M (A.D), DRAINAGE AREA 192 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.52	1.30	2.80	45.92	4.78	6.75	3.02	2.32	1.48	0.70	1.12	
2	0.58	0.46	2.44	2.08	13.45	7.80	7.45	4.78	2.32	1.24	0.88	0.94	
3	0.40	0.52	4.56	1.54	9.60	8.15	7.45	4.12	2.32	1.24	0.52	0.70	
4	0.40	0.70	2.32	1.48	7.80	15.52	7.45	7.45	2.32	1.24	1.00	0.82	
5	0.46	1.30	1.60	1.30	5.35	22.57	7.80	5.00	2.32	1.30	1.18	0.82	
6	0.46	1.42	1.30	2.08	4.56	12.90	6.40	5.35	1.84	1.60	1.00	0.70	
7	0.46	1.30	1.18	2.80	4.12	9.60	5.70	4.34	1.72	1.36	0.70	0.58	
8	0.46	1.06	1.30	2.44	3.68	8.15	8.15	9.60	1.84	1.06	0.58	0.64	
9	0.40	0.94	2.68	3.02	4.12	8.15	7.80	8.15	1.84	1.00	0.88	0.76	
10	0.40	0.94	2.56	2.44	3.68	7.45	7.10	6.40	1.54	0.64	1.18	0.52	
11	0.40	0.94	1.42	2.08	2.80	7.45	6.05	5.00	1.54	0.70	1.18	0.52	
12	0.40	0.94	1.06	1.84	2.80	6.05	5.70	4.56	1.54	0.76	0.64	0.52	
13	0.40	0.88	1.48	1.54	2.68	5.70	5.00	4.78	1.54	1.18	0.58	0.46	
14	0.40	0.64	0.82	1.42	3.24	5.70	5.35	5.70	1.54	1.36	0.52	0.46	
15	0.40	0.88	1.06	1.48	2.80	5.70	5.70	4.78	1.60	1.18	0.58	0.76	
16	0.40	0.52	1.48	1.36	3.46	5.00	4.78	4.56	1.48	0.64	0.52	0.88	
17	0.40	0.46	1.96	4.78	3.68	6.05	5.00	4.56	1.48	0.58	0.76	0.94	
18	0.40	0.46	1.60	2.32	20.84	7.45	4.78	4.12	1.42	0.64	1.00	1.00	
19	0.58	0.46	1.18	1.72	12.90	7.80	5.35	4.12	1.60	0.64	1.36	1.18	
20	0.52	0.46	1.00	1.48	7.45	7.80	4.78	3.68	1.48	0.64	1.24	1.18	
21	0.46	0.40	0.88	1.36	6.05	9.05	4.56	3.24	1.42	1.00	0.70	1.06	
22	0.40	0.46	0.94	1.24	14.76	7.45	4.56	3.46	1.48	1.36	0.70	1.00	
23	0.46	0.82	1.12	1.24	54.38	7.10	5.70	3.24	1.60	1.18	0.82	0.76	
24	0.40	0.70	1.24	1.60	91.70	7.10	6.05	2.68	1.60	0.70	1.12	0.46	
25	0.40	0.82	2.08	5.35	60.46	6.40	5.35	3.02	1.72	0.76	1.06	0.52	
26	0.40	0.58	0.88	4.12	19.32	7.10	4.78	3.02	1.60	0.58	1.18	0.94	
27	0.46	0.40	0.76	2.68	12.90	6.75	5.00	3.24	1.60	0.40	1.12	0.64	
28	0.40	0.40	0.76	2.32	9.60	6.40	4.78	3.24	1.54	0.40	1.12	0.82	
29	0.46	0.52	63.72	2.08	7.80	8.15	4.78	2.68	1.24	1.24	1.18	0.46	
30	0.94	0.76	7.45	1.84	6.75	6.75	4.56	2.32	1.42	1.00		0.40	
31		1.12		19.32	5.35		4.12		1.48	0.70		0.40	
TOTAL	13.56	22.78	114.13	85.15	454.00	242.02	178.78	134.21	52.30	29.80	26.00	22.96	1375.69 CMSDAY
MEAN	0.45	0.73	3.80	2.75	14.65	8.07	5.77	4.47	1.69	0.96	0.90	0.74	3.76 CMS
MAX	0.94	1.42	63.72	19.32	91.70	22.57	8.15	9.60	2.32	1.60	1.36	1.18	91.70 CMS
MIN	0.40	0.40	0.76	1.24	2.68	4.78	4.12	2.32	1.24	0.40	0.52	0.40	0.40 CMS
RUNOFF	1.172	1.968	9.861	7.357	39.226	20.911	15.447	11.596	4.519	2.575	2.246	1.984	118.860 MCM

MOMENTARY PEAK 104.78 CMS, AT 1.26 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987

RUNOFF YIELD 19.58 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 545.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

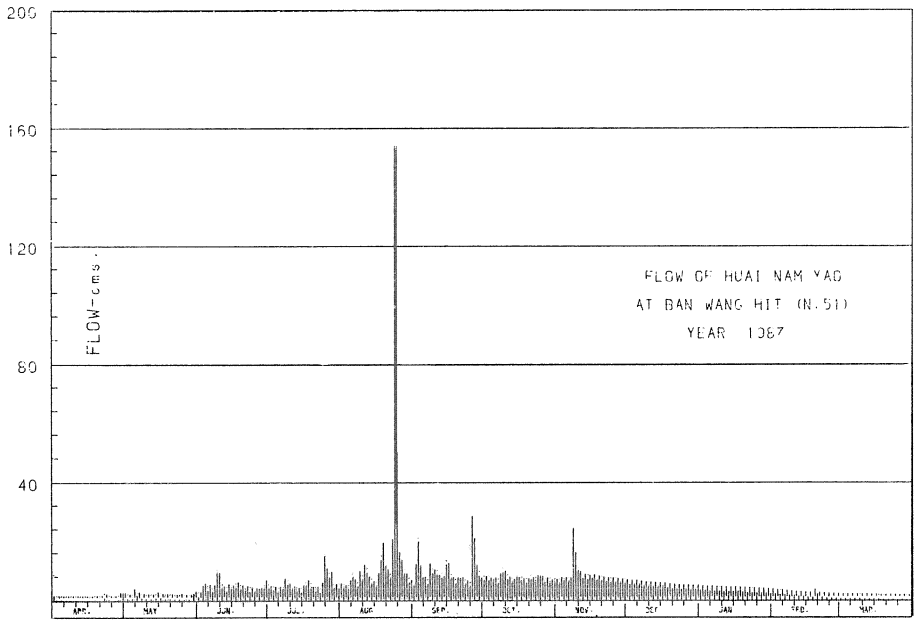
HUAI NAM YAO AT BAN WANG HIT, NAN (N.51)

LOCATION	LAT. 19°-09'-31" N., LONG. 100°-46'-56" E., ON RIGHT BANK BEHIND THE PHA TO TOBACCO HOUSE AT BAN WANG HIT, AMPHOE THA WANG PHA, NAN.
DRAINAGE AREA	774 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+230.10 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 2 METERS UPSTREAM FROM MEASURING LINE.
ELEVATION	+237.344 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	230.80	230.95	230.98	231.32	231.32	231.39	231.54	231.45	231.44	231.24	231.11	230.88	
2	230.80	230.89	230.97	231.23	231.31	231.82	231.54	231.45	231.44	231.23	231.10	230.87	
3	230.80	230.86	231.39	231.24	231.26	232.23	231.54	231.50	231.43	231.23	231.08	230.87	
4	230.80	230.88	231.32	231.20	231.27	231.79	231.49	231.55	231.43	231.22	231.07	230.86	
5	230.79	231.12	231.24	231.17	231.42	231.63	231.57	231.50	231.42	231.22	231.07	230.87	
6	230.79	231.05	231.28	231.20	231.63	231.52	231.49	231.50	231.41	231.22	231.06	230.87	
7	230.79	230.97	231.18	231.28	231.45	231.44	231.46	231.49	231.39	231.21	231.05	230.87	
8	230.79	230.92	231.27	231.47	231.36	231.83	231.61	232.38	231.38	231.21	231.04	230.87	
9	230.79	230.90	231.71	231.43	231.67	231.72	231.74	232.02	231.37	231.20	231.03	230.87	
10	230.79	230.88	231.63	231.32	231.56	231.70	231.67	231.75	231.37	231.20	231.02	230.86	
11	230.79	230.88	231.32	231.28	231.81	231.69	231.58	231.66	231.36	231.20	231.00	230.86	
12	230.78	230.88	231.22	231.22	231.74	231.57	231.52	231.61	231.36	231.19	230.99	230.86	
13	230.78	230.87	231.19	231.19	231.53	231.62	231.49	231.59	231.35	231.19	230.99	230.86	
14	230.78	230.91	231.30	231.15	231.46	231.54	231.45	231.58	231.35	231.19	230.98	230.85	
15	230.77	230.98	231.28	231.16	231.39	231.89	231.64	231.57	231.34	231.19	230.96	230.85	
16	230.77	230.94	231.26	231.26	231.36	231.84	231.51	231.61	231.34	231.19	230.95	230.85	
17	230.77	230.90	231.32	231.39	231.62	231.59	231.51	231.58	231.33	231.18	230.95	230.84	
18	230.80	230.88	231.36	231.42	231.97	231.51	231.48	231.56	231.32	231.18	230.94	230.84	
19	230.79	230.91	231.28	231.33	232.16	231.45	231.47	231.55	231.31	231.17	231.08	230.83	
20	230.79	230.88	231.26	231.20	231.86	231.50	231.47	231.53	231.30	231.17	231.09	230.83	
21	230.82	230.88	231.24	231.20	231.71	231.61	231.57	231.52	231.29	231.16	230.95	230.83	
22	230.92	230.86	231.23	231.20	231.60	231.50	231.50	231.51	231.28	231.16	230.94	230.83	
23	230.88	230.85	231.20	231.15	232.21	231.43	231.51	231.50	231.28	231.15	230.92	230.83	
24	230.83	230.86	231.18	231.34	234.30	231.40	231.56	231.49	231.27	231.15	230.91	230.83	
25	230.80	230.90	231.17	232.03	232.99	231.36	231.66	231.49	231.27	231.14	230.91	230.83	
26	230.79	230.85	231.15	231.73	232.08	232.48	231.54	231.49	231.27	231.14	230.90	230.83	
27	230.79	230.85	231.29	231.63	231.90	232.27	231.50	231.48	231.27	231.13	230.90	230.83	
28	230.82	230.85	231.16	231.65	231.71	231.80	231.49	231.47	231.26	231.13	230.89	230.83	
29	230.95	230.86	231.30	231.32	231.61	231.66	231.48	231.46	231.26	231.12	230.88	230.82	
30	231.14	231.11	231.42	231.30	231.49	231.49	231.44	231.45	231.26	231.12		230.82	
31		231.02		231.31	231.42		231.46		231.25	231.11		230.82	
MEAN	230.82	230.91	231.27	231.33	231.75	231.68	231.53	231.58	231.34	231.18	230.99	230.85	
MAX	231.14	231.12	231.71	232.03	234.30	232.48	231.74	232.38	231.44	231.24	231.11	230.88	234.30
MIN	230.77	230.85	230.97	231.15	231.26	231.36	231.44	231.45	231.25	231.11	230.88	230.82	230.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 234.48 M (MSL), AT 6.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 230.10 M (MSL), RIVER BED 229.97 M (MSL)
LEFT BANK ELEVATION 238.71 M (MSL)
RIGHT BANK ELEVATION 235.93 M (MSL), DRAINAGE AREA 774 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.70	2.68	2.87	5.82	5.82	6.59	8.28	7.25	7.14	5.06	3.89	2.22	
2	1.70	2.28	2.81	4.97	5.71	12.36	8.28	7.25	7.14	4.97	3.80	2.16	
3	1.70	2.09	6.59	5.06	5.24	21.31	8.28	7.80	7.03	4.97	3.64	2.16	
4	1.70	2.22	5.82	4.70	5.33	11.85	7.69	8.40	7.03	4.88	3.56	2.09	
5	1.64	3.98	5.06	4.43	6.92	9.45	8.64	7.80	6.92	4.88	3.56	2.16	
6	1.64	3.40	5.42	4.70	9.45	8.04	7.69	7.80	6.81	4.88	3.48	2.16	
7	1.64	2.81	4.52	5.42	7.25	7.14	7.36	7.69	6.59	4.79	3.40	2.16	
8	1.64	2.48	5.33	7.47	6.26	12.54	9.15	25.60	6.48	4.79	3.32	2.16	
9	1.64	2.35	10.65	7.03	10.05	10.80	11.10	16.26	6.37	4.70	3.24	2.16	
10	1.64	2.22	9.45	5.82	8.52	10.50	10.05	11.25	6.37	4.70	3.16	2.09	
11	1.64	2.22	5.82	5.42	12.18	10.35	8.76	9.90	6.26	4.70	3.00	2.09	
12	1.58	2.22	4.88	4.88	11.10	8.64	8.04	9.15	6.26	4.61	2.94	2.09	
13	1.58	2.16	4.61	4.61	8.16	9.30	7.69	8.88	6.15	4.61	2.94	2.09	
14	1.58	2.42	5.60	4.25	7.36	8.28	7.25	8.76	6.15	4.61	2.87	2.03	
15	1.52	2.87	5.42	4.34	6.59	13.62	9.60	8.64	6.04	4.61	2.74	2.03	
16	1.52	2.61	5.24	5.24	6.26	12.72	7.92	9.15	6.04	4.61	2.68	2.03	
17	1.52	2.35	5.82	6.59	9.30	8.88	7.92	8.76	5.93	4.52	2.68	1.96	
18	1.70	2.22	6.26	6.92	15.20	7.92	7.58	8.52	5.82	4.52	2.61	1.96	
19	1.64	2.42	5.42	5.93	19.54	7.25	7.47	8.40	5.71	4.43	3.64	1.89	
20	1.64	2.22	5.24	4.70	13.08	7.80	7.47	8.16	5.60	4.43	3.72	1.89	
21	1.83	2.22	5.06	4.70	10.65	9.15	8.64	8.04	5.51	4.34	2.68	1.89	
22	2.48	2.09	4.97	4.70	9.00	7.80	7.80	7.92	5.42	4.34	2.61	1.89	
23	2.22	2.03	4.70	4.25	20.77	7.03	7.92	7.80	5.42	4.25	2.48	1.89	
24	1.89	2.09	4.52	6.04	155.00	6.70	8.52	7.69	5.33	4.25	2.42	1.89	
25	1.70	2.35	4.43	16.49	50.28	6.26	9.90	7.69	5.33	4.16	2.42	1.89	
26	1.64	2.03	4.25	10.95	17.64	28.60	8.28	7.69	5.33	4.16	2.35	1.89	
27	1.64	2.03	5.51	9.45	13.80	22.39	7.80	7.58	5.33	4.07	2.35	1.89	
28	1.83	2.03	4.34	9.75	10.65	12.00	7.69	7.47	5.24	4.07	2.28	1.89	
29	2.68	2.09	5.60	5.82	9.15	9.90	7.58	7.36	5.24	3.98	2.22	1.83	
30	4.16	3.89	6.92	5.60	7.69	7.69	7.14	7.25	5.24	3.98		1.83	
31		3.16		5.71	6.92		7.36		5.15	3.89		1.83	
TOTAL	54.63	76.23	163.13	191.76	490.87	322.86	254.85	271.91	186.38	139.76	86.68	62.19	2301.25 CMSDAY
MEAN	1.82	2.46	5.44	6.19	15.83	10.76	8.22	9.06	6.01	4.51	2.99	2.01	6.29 CMS
MAX	4.16	3.98	10.65	16.49	155.00	28.60	11.10	25.60	7.14	5.06	3.89	2.22	155.00 CMS
MIN	1.52	2.03	2.81	4.25	5.24	6.26	7.14	7.25	5.15	3.89	2.22	1.83	1.52 CMS
RUNOFF	4.720	6.586	14.094	16.568	42.411	27.895	22.019	23.493	16.103	12.075	7.489	5.373	198.828 MCM

MOMENTARY PEAK 174.96 CMS, AT 234.48 M (MSL), AT 6.00 HOURS, ON AUG 24, 1987
RUNOFF YIELD 8.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 226.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

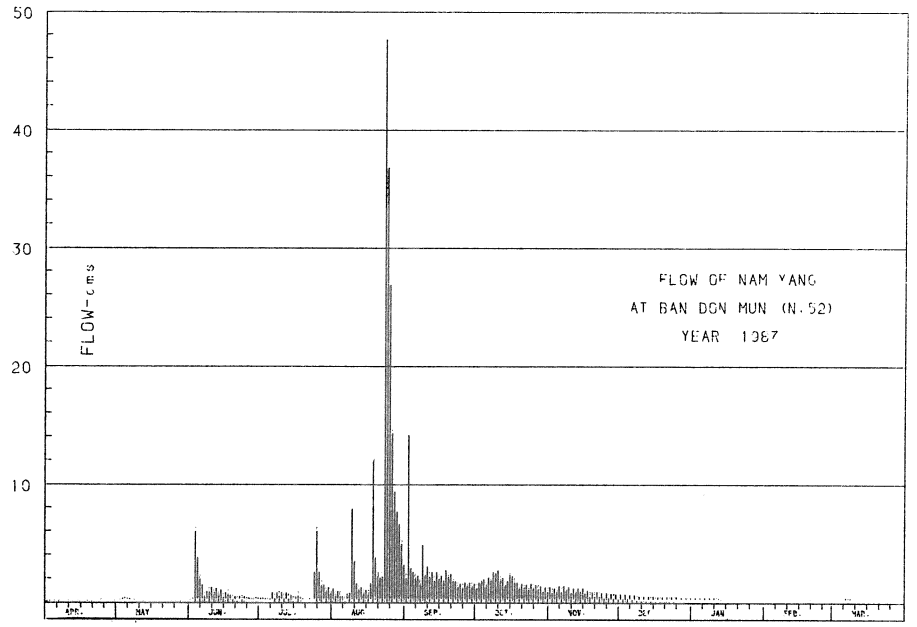
NAM YANG AT BAN DON MUN, NAN (N.52)

LOCATION	LAT. 19°-05'-08" N., LONG. 100°-55'-51" E., ON LEFT BANK AT THE BRIDGE OF PUA-BAN DU PHONG HIGHWAY, BAN DON MUN, TAMBON SILA PHET, AMPHOE PUA, NAN.
DRAINAGE AREA	49 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 15 METERS FROM THE ABUTMENT OF THE BRIDGE.
ELEVATION	+3.063 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.56	0.62	0.62	0.66	0.76	0.54	0.48	0.45	0.38	0.33	0.31	0.30	
2	0.56	0.62	0.65	0.66	0.74	0.95	0.49	0.44	0.38	0.33	0.31	0.30	
3	0.56	0.65	0.96	0.65	0.74	0.59	0.52	0.44	0.38	0.33	0.31	0.31	
4	0.56	0.67	0.89	0.65	0.74	0.55	0.51	0.45	0.37	0.33	0.30	0.31	
5	0.56	0.65	0.83	0.64	0.70	0.54	0.50	0.46	0.37	0.33	0.30	0.32	
6	0.56	0.64	0.79	0.73	0.69	0.53	0.52	0.45	0.37	0.33	0.30	0.33	
7	0.56	0.63	0.73	0.72	0.72	0.51	0.53	0.46	0.37	0.33	0.30	0.33	
8	0.57	0.62	0.74	0.73	0.76	0.67	0.55	0.46	0.36	0.33	0.29	0.32	
9	0.57	0.60	0.77	0.74	1.00	0.55	0.57	0.45	0.35	0.33	0.29	0.31	
10	0.57	0.58	0.77	0.73	0.89	0.58	0.56	0.44	0.35	0.33	0.29	0.30	
11	0.57	0.58	0.75	0.72	0.80	0.55	0.53	0.44	0.35	0.33	0.30	0.30	
12	0.57	0.58	0.76	0.73	0.79	0.55	0.52	0.44	0.35	0.32	0.31	0.29	
13	0.57	0.57	0.74	0.72	0.77	0.53	0.50	0.44	0.35	0.31	0.31	0.29	
14	0.57	0.60	0.75	0.71	0.76	0.55	0.50	0.45	0.35	0.31	0.31	0.28	
15	0.57	0.60	0.73	0.70	0.75	0.54	0.56	0.44	0.35	0.31	0.30	0.26	
16	0.57	0.60	0.73	0.69	0.75	0.53	0.53	0.43	0.34	0.31	0.30	0.25	
17	0.57	0.59	0.75	0.74	0.80	0.53	0.52	0.42	0.34	0.31	0.29	0.25	
18	0.57	0.59	0.71	0.69	1.09	0.56	0.49	0.41	0.34	0.30	0.29	0.25	
19	0.58	0.59	0.71	0.65	0.89	0.55	0.48	0.41	0.34	0.30	0.31	0.25	
20	0.57	0.58	0.70	0.63	0.84	0.54	0.48	0.41	0.34	0.30	0.31	0.25	
21	0.60	0.58	0.70	0.64	0.82	0.53	0.47	0.41	0.34	0.30	0.30	0.25	
22	0.64	0.57	0.70	0.64	0.84	0.50	0.47	0.41	0.34	0.30	0.30	0.25	
23	0.63	0.57	0.71	0.65	1.37	0.49	0.47	0.40	0.34	0.30	0.30	0.25	
24	0.63	0.57	0.70	0.84	1.27	0.48	0.48	0.40	0.34	0.30	0.28	0.23	
25	0.60	0.57	0.67	0.96	1.16	0.48	0.48	0.40	0.34	0.29	0.28	0.21	
26	0.58	0.57	0.66	0.84	0.96	0.49	0.47	0.40	0.33	0.29	0.28	0.21	
27	0.57	0.58	0.65	0.81	0.83	0.50	0.47	0.39	0.33	0.29	0.28	0.21	
28	0.58	0.58	0.65	0.79	0.79	0.49	0.46	0.39	0.33	0.29	0.29	0.21	
29	0.60	0.59	0.67	0.77	0.74	0.49	0.45	0.38	0.33	0.30	0.30	0.21	
30	0.61	0.63	0.66	0.77	0.69	0.48	0.45	0.38	0.33	0.30		0.21	
31		0.63		0.76	0.59		0.45		0.33	0.31		0.20	
MEAN	0.58	0.60	0.73	0.72	0.84	0.55	0.50	0.42	0.35	0.31	0.30	0.27	
MAX	0.64	0.67	0.96	0.96	1.37	0.95	0.57	0.46	0.38	0.33	0.31	0.33	1.37
MIN	0.56	0.57	0.62	0.63	0.59	0.48	0.45	0.38	0.33	0.29	0.28	0.20	0.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.60 M (A.D), AT 14.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.61 M (A.D)
LEFT BANK ELEVATION 3.10 M (A.D)
RIGHT BANK ELEVATION 2.25 M (A.D), DRAINAGE AREA 49 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.26	0.26	0.38	1.16	2.42	1.60	1.30	0.69	0.42	0.30	0.25	
2	0.16	0.26	0.35	0.38	0.94	14.15	1.70	1.20	0.69	0.42	0.30	0.25	
3	0.16	0.35	6.36	0.35	0.94	3.19	2.11	1.20	0.69	0.42	0.30	0.30	
4	0.16	0.41	3.81	0.35	0.94	2.58	1.95	1.30	0.64	0.42	0.25	0.30	
5	0.16	0.35	2.33	0.32	0.50	2.42	1.80	1.40	0.64	0.42	0.25	0.36	
6	0.16	0.32	1.49	0.83	0.47	2.26	2.11	1.30	0.64	0.42	0.25	0.42	
7	0.16	0.29	0.83	0.72	0.72	1.95	2.26	1.40	0.64	0.42	0.25	0.42	
8	0.17	0.26	0.94	0.83	1.16	4.86	2.58	1.40	0.58	0.42	0.23	0.36	
9	0.17	0.20	1.27	0.94	7.90	2.58	2.88	1.30	0.52	0.42	0.23	0.30	
10	0.17	0.18	1.27	0.83	3.81	3.04	2.73	1.20	0.52	0.42	0.23	0.25	
11	0.17	0.18	1.05	0.72	1.60	2.58	2.26	1.20	0.52	0.42	0.25	0.25	
12	0.17	0.18	1.16	0.83	1.49	2.58	2.11	1.20	0.52	0.36	0.30	0.23	
13	0.17	0.17	0.94	0.72	1.27	2.26	1.80	1.20	0.52	0.30	0.30	0.23	
14	0.17	0.20	1.05	0.61	1.16	2.58	1.80	1.30	0.52	0.30	0.30	0.21	
15	0.17	0.20	0.83	0.50	1.05	2.42	2.73	1.20	0.52	0.30	0.25	0.17	
16	0.17	0.20	0.83	0.47	1.05	2.26	2.26	1.10	0.47	0.30	0.25	0.15	
17	0.17	0.19	1.05	0.94	1.60	2.26	2.11	1.00	0.47	0.30	0.23	0.15	
18	0.17	0.19	0.61	0.47	12.27	2.73	1.70	0.90	0.47	0.25	0.23	0.15	
19	0.18	0.19	0.61	0.35	3.81	2.58	1.60	0.90	0.47	0.25	0.30	0.15	
20	0.17	0.18	0.50	0.29	2.58	2.42	1.60	0.90	0.47	0.25	0.30	0.15	
21	0.20	0.18	0.50	0.32	2.09	2.26	1.50	0.90	0.47	0.25	0.25	0.15	
22	0.32	0.17	0.50	0.32	2.58	1.80	1.50	0.90	0.47	0.25	0.25	0.15	
23	0.29	0.17	0.61	0.35	47.66	1.70	1.50	0.80	0.47	0.25	0.25	0.15	
24	0.29	0.17	0.50	2.58	37.10	1.60	1.60	0.80	0.47	0.25	0.21	0.11	
25	0.20	0.17	0.41	6.36	26.90	1.60	1.60	0.80	0.47	0.23	0.21	0.07	
26	0.18	0.17	0.38	2.58	14.60	1.70	1.50	0.80	0.42	0.23	0.21	0.07	
27	0.17	0.18	0.35	1.84	9.38	1.80	1.50	0.74	0.42	0.23	0.21	0.07	
28	0.18	0.18	0.35	1.49	8.02	1.70	1.40	0.74	0.42	0.23	0.23	0.07	
29	0.20	0.19	0.41	1.27	6.62	1.70	1.30	0.69	0.42	0.25	0.25	0.07	
30	0.23	0.29	0.38	1.27	5.29	1.60	1.30	0.69	0.42	0.25		0.07	
31		0.29		1.16	3.19		1.30		0.42	0.30		0.05	
TOTAL	5.60	6.92	31.93	31.37	209.85	81.58	57.69	31.76	16.07	9.95	7.37	6.08	496.17 CMSDAY
MEAN	0.19	0.22	1.06	1.01	6.77	2.72	1.86	1.06	0.52	0.32	0.25	0.20	1.36 CMS
MAX	0.32	0.41	6.36	6.36	47.66	14.15	2.88	1.40	0.69	0.42	0.30	0.42	47.66 CMS
MIN	0.16	0.17	0.26	0.29	0.47	1.60	1.30	0.69	0.42	0.23	0.21	0.05	0.05 CMS
RUNOFF	0.484	0.598	2.759	2.710	18.131	7.049	4.984	2.744	1.388	0.860	0.637	0.525	42.869 MCM

MOMENTARY PEAK 74.10 CMS, AT 1.60 M (A.D), AT 14.00 HOURS, ON AUG 23, 1987

RUNOFF YIELD 27.67 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1512.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

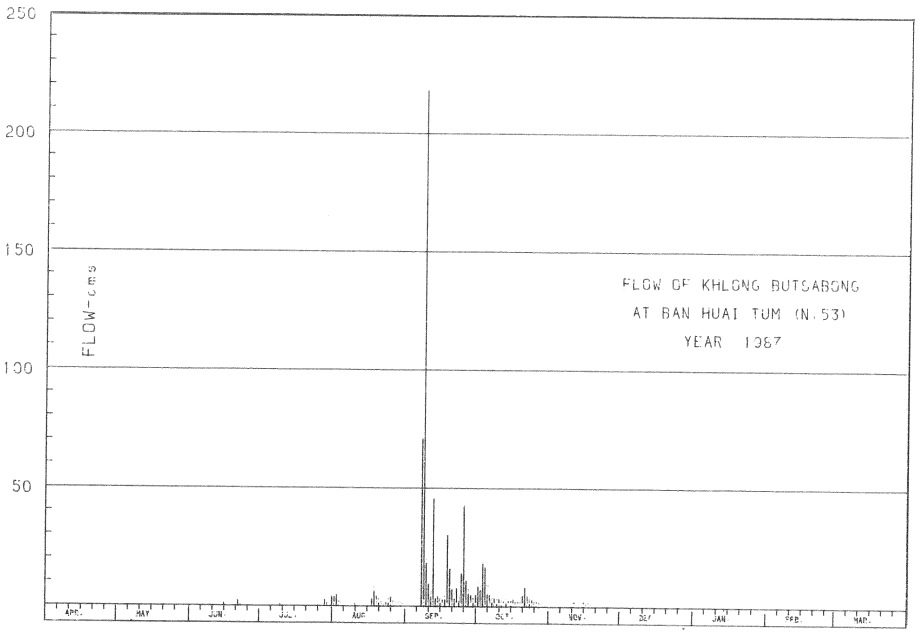
KHLONG BUTSABONG AT BAN HUAI TUM, PHETCHABUN (N.53)

LOCATION	LAT. 16°-11'-26" N., LONG. 100°-55'-40" E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY AT BAN HUAI TUM, AMPHOE CHON DAN, PHETCHABUN.
DRAINAGE AREA	111 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.713 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.33	0.24	0.52	0.91	0.69	1.19	0.73	0.63	0.50	0.41	0.35	
2	0.30	0.32	0.33	0.54	1.05	0.68	1.06	0.73	0.61	0.50	0.41	0.34	
3	0.30	0.31	0.41	0.52	0.84	0.72	1.44	0.72	0.60	0.49	0.41	0.34	
4	0.30	0.30	0.38	0.48	0.75	0.69	1.36	0.72	0.59	0.49	0.40	0.34	
5	0.30	0.29	0.47	0.47	0.68	0.67	1.07	0.71	0.58	0.49	0.40	0.34	
6	0.30	0.28	0.49	0.46	0.65	0.65	0.97	0.70	0.58	0.49	0.40	0.34	
7	0.29	0.30	0.50	0.46	0.64	2.18	0.90	0.70	0.58	0.48	0.40	0.34	
8	0.29	0.29	0.55	0.49	0.61	3.13	0.88	0.69	0.59	0.48	0.40	0.33	
9	0.29	0.28	0.63	0.70	0.60	1.44	0.86	0.68	0.59	0.47	0.40	0.33	
10	0.28	0.28	0.63	0.62	0.71	1.16	0.86	0.68	0.60	0.47	0.50	0.33	
11	0.28	0.28	0.58	0.58	0.69	1.04	0.83	0.67	0.60	0.46	0.43	0.32	
12	0.27	0.28	0.58	0.53	0.65	1.88	0.80	0.68	0.59	0.45	0.43	0.32	
13	0.26	0.29	0.58	0.50	0.63	0.99	0.87	0.68	0.58	0.45	0.41	0.31	
14	0.25	0.29	0.60	0.48	0.62	0.93	0.82	0.68	0.57	0.44	0.40	0.31	
15	0.25	0.29	0.72	0.47	0.58	0.87	0.82	0.80	0.57	0.44	0.39	0.31	
16	0.47	0.30	0.59	0.43	0.60	0.84	0.85	0.72	0.57	0.44	0.39	0.31	
17	0.47	0.29	0.53	0.44	0.85	0.97	0.80	0.77	0.56	0.44	0.39	0.31	
18	0.40	0.29	0.53	0.44	1.11	1.65	0.79	0.70	0.56	0.43	0.39	0.31	
19	0.40	0.30	0.48	0.43	0.93	1.39	0.77	0.70	0.55	0.43	0.39	0.31	
20	0.38	0.29	0.47	0.42	0.88	1.07	0.95	0.70	0.55	0.42	0.39	0.31	
21	0.35	0.29	0.83	0.41	0.77	1.00	1.18	0.69	0.54	0.42	0.38	0.30	
22	0.35	0.28	0.68	0.40	0.64	1.09	0.94	0.68	0.54	0.42	0.38	0.30	
23	0.34	0.28	0.62	0.39	0.74	0.94	0.87	0.68	0.54	0.42	0.38	0.29	
24	0.32	0.28	0.57	0.42	0.87	1.29	0.84	0.67	0.53	0.41	0.38	0.29	
25	0.31	0.27	0.54	0.67	0.90	1.86	0.80	0.66	0.53	0.41	0.37	0.29	
26	0.32	0.27	0.52	0.63	0.81	1.21	0.79	0.65	0.53	0.41	0.36	0.28	
27	0.34	0.27	0.49	0.61	0.76	1.08	0.75	0.64	0.52	0.41	0.36	0.28	
28	0.32	0.26	0.48	0.83	0.74	0.96	0.74	0.69	0.52	0.42	0.35	0.28	
29	0.32	0.25	0.48	0.71	0.76	0.89	0.74	0.67	0.52	0.42	0.35	0.27	
30	0.34	0.24	0.47	0.61	0.71	0.96	0.73	0.64	0.51	0.42		0.27	
31		0.25		0.95	0.68		0.73		0.51	0.42		0.26	
MEAN	0.32	0.28	0.53	0.54	0.75	1.16	0.90	0.69	0.56	0.45	0.39	0.31	
MAX	0.47	0.33	0.83	0.95	1.11	3.13	1.44	0.80	0.63	0.50	0.50	0.35	3.13
MIN	0.25	0.24	0.24	0.39	0.58	0.65	0.73	0.64	0.51	0.41	0.35	0.26	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.25 M (A.D), AT 4.00 HOURS, ON SEP 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.13 M (A.D)
LEFT BANK ELEVATION 4.83 M (A.D)
RIGHT BANK ELEVATION 8.31 M (A.D), DRAINAGE AREA 111 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.01	0.00	0.06	3.76	0.95	10.23	1.33	0.38	0.05	0.02	0.01	
2	0.01	0.01	0.01	0.07	6.50	0.85	6.76	1.33	0.19	0.05	0.02	0.01	
3	0.01	0.01	0.02	0.06	2.64	1.24	19.80	1.24	0.09	0.05	0.02	0.01	
4	0.01	0.01	0.02	0.05	1.52	0.95	16.48	1.24	0.09	0.05	0.02	0.01	
5	0.01	0.01	0.04	0.04	0.85	0.76	7.02	1.14	0.08	0.05	0.02	0.01	
6	0.01	0.01	0.05	0.04	0.57	0.57	4.72	1.04	0.08	0.05	0.02	0.01	
7	0.01	0.01	0.05	0.04	0.47	72.10	3.60	1.04	0.08	0.05	0.02	0.01	
8	0.01	0.01	0.07	0.05	0.19	218.05	3.28	0.95	0.09	0.05	0.02	0.01	
9	0.01	0.01	0.38	1.04	0.09	19.80	2.96	0.85	0.09	0.04	0.02	0.01	
10	0.01	0.01	0.38	0.28	1.14	9.42	2.96	0.85	0.09	0.04	0.05	0.01	
11	0.01	0.01	0.08	0.08	0.95	6.24	2.48	0.76	0.09	0.04	0.03	0.01	
12	0.01	0.01	0.08	0.07	0.57	45.40	2.00	0.85	0.09	0.04	0.03	0.01	
13	0.01	0.01	0.08	0.05	0.38	5.04	3.12	0.85	0.08	0.04	0.02	0.01	
14	0.01	0.01	0.09	0.05	0.28	4.08	2.32	0.85	0.08	0.03	0.02	0.01	
15	0.01	0.01	1.24	0.04	0.08	3.12	2.32	2.00	0.08	0.03	0.02	0.01	
16	0.04	0.01	0.09	0.03	0.09	2.64	2.80	1.24	0.08	0.03	0.02	0.01	
17	0.04	0.01	0.07	0.03	2.80	4.72	2.00	1.71	0.08	0.03	0.02	0.01	
18	0.02	0.01	0.07	0.03	8.07	30.00	1.90	1.04	0.08	0.03	0.02	0.01	
19	0.02	0.01	0.05	0.03	4.08	17.62	1.71	1.04	0.07	0.03	0.02	0.01	
20	0.02	0.01	0.04	0.03	3.28	7.02	4.40	1.04	0.07	0.03	0.02	0.01	
21	0.01	0.01	2.48	0.02	1.71	5.20	9.96	0.95	0.07	0.03	0.02	0.01	
22	0.01	0.01	0.85	0.02	0.47	7.54	4.24	0.85	0.07	0.03	0.02	0.01	
23	0.01	0.01	0.28	0.02	1.43	4.24	3.12	0.85	0.07	0.03	0.02	0.01	
24	0.01	0.01	0.08	0.03	3.12	13.83	2.64	0.76	0.07	0.02	0.02	0.01	
25	0.01	0.01	0.07	0.76	3.60	43.80	2.00	0.66	0.07	0.02	0.02	0.01	
26	0.01	0.01	0.06	0.38	2.16	10.87	1.90	0.57	0.07	0.02	0.02	0.01	
27	0.01	0.01	0.05	0.19	1.62	7.28	1.52	0.47	0.06	0.02	0.02	0.01	
28	0.01	0.01	0.05	2.48	1.43	4.56	1.43	0.95	0.06	0.03	0.01	0.01	
29	0.01	0.01	0.05	1.14	1.62	3.44	1.43	0.76	0.06	0.03	0.01	0.01	
30	0.01	0.00	0.04	0.19	1.14	4.56	1.33	0.47	0.06	0.03		0.01	
31		0.01		4.40	0.85		1.33		0.06	0.03		0.01	
TOTAL	0.39	0.30	6.92	11.80	57.46	555.89	133.76	29.68	2.78	1.10	0.61	0.31	801.00 CMSDAY
MEAN	0.01	0.01	0.23	0.38	1.85	18.53	4.31	0.99	0.09	0.04	0.02	0.01	2.19 CMS
MAX	0.04	0.01	2.48	4.40	8.07	218.05	19.80	2.00	0.38	0.05	0.05	0.01	218.05 CMS
MIN	0.01	0.00	0.00	0.02	0.08	0.57	1.33	0.47	0.06	0.02	0.01	0.01	0.00 CMS
RUNOFF	0.034	0.026	0.598	1.020	4.965	48.029	11.557	2.564	0.240	0.095	0.053	0.027	69.206 MCM

MOMENTARY PEAK 591.22 CMS, AT 4.25 M (A.D), AT 4.00 HOURS, ON SEP 8, 1987

RUNOFF YIELD 19.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 5326.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

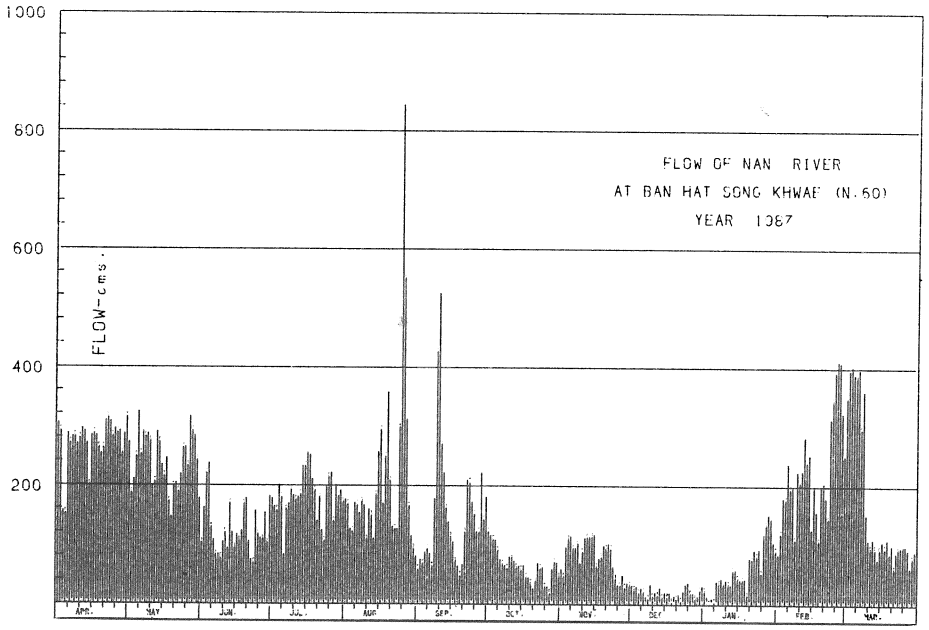
NAN RIVER AT BAN HAT SONG KHWAE, UTTARADIT (N.60)

LOCATION	LAT. 17°-24'-50" N., LONG. 100°-07'-50" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM WAT HAT SONG KHWAE, AMPHOE TRON, UTTARADIT.
DRAINAGE AREA	18,692 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+48.50 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE METEOROLOGICAL STATION.
ELEVATION	+57.592 M.(M.S.L.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00 - 18.00 AND 21.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READLNGS.
PERIOD OF AVAILABLE GAGE RECORDS	1986 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 111 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.07	50.87	49.75	50.32	50.26	49.33	49.91	49.26	48.94	48.90	49.52	51.37	
2	51.03	50.37	50.16	50.18	50.25	49.43	49.81	49.19	48.94	48.63	49.89	51.61	
3	50.12	50.48	50.58	50.18	49.90	49.42	49.81	49.63	48.91	48.54	50.28	51.68	
4	50.14	50.76	50.65	50.42	49.92	49.55	49.74	49.81	48.86	48.57	50.30	51.57	
5	50.96	51.19	49.96	50.33	50.22	49.67	49.64	49.80	48.87	48.60	50.65	51.59	
6	50.90	50.78	49.74	49.51	50.24	49.53	49.43	49.66	48.89	49.03	50.42	51.62	
7	50.93	50.98	49.56	50.18	50.10	49.38	49.42	49.62	48.63	49.06	50.41	51.05	
8	50.97	50.97	49.52	50.21	50.28	50.27	49.33	49.73	48.72	49.08	49.80	51.41	
9	50.85	50.96	49.52	50.41	50.19	51.81	49.35	49.37	48.96	49.06	50.56	50.12	
10	50.95	50.92	49.71	50.31	49.80	52.28	49.48	49.62	48.76	49.05	50.48	49.74	
11	51.01	50.40	49.90	50.30	50.14	50.88	49.55	49.77	48.76	49.04	50.57	49.68	
12	51.03	50.49	49.61	50.29	50.12	50.55	49.41	49.84	48.80	48.95	50.96	49.76	
13	50.86	50.98	50.25	50.36	49.76	50.20	49.36	49.79	48.88	49.30	50.66	49.67	
14	50.45	50.91	49.85	50.62	50.35	49.99	49.32	49.85	48.74	49.25	50.78	49.44	
15	50.94	50.63	49.67	50.66	50.77	49.85	49.32	49.82	48.76	49.16	49.90	49.66	
16	51.00	50.55	49.82	50.76	51.04	49.71	49.33	49.37	48.76	49.06	50.44	49.72	
17	50.94	50.70	49.78	50.78	50.21	49.46	49.18	49.45	48.75	49.12	50.12	49.68	
18	50.85	50.28	49.87	50.48	50.76	49.31	49.10	49.54	48.60	49.07	49.78	49.75	
19	50.75	50.05	50.25	50.40	51.40	49.21	49.07	49.65	48.65	48.79	50.41	49.59	
20	50.85	50.44	50.27	50.00	50.50	49.34	48.86	49.67	48.71	49.46	50.48	49.66	
21	51.10	50.44	49.76	50.32	49.93	49.91	49.10	49.68	48.70	49.52	50.28	49.34	
22	51.17	50.39	49.43	49.88	49.95	50.47	49.37	49.67	48.64	49.59	50.07	49.55	
23	51.09	50.53	49.44	49.78	49.90	50.49	49.35	49.30	48.79	49.55	51.12	49.67	
24	50.97	50.85	50.12	50.41	51.06	50.23	49.29	49.16	49.05	49.60	51.35	49.63	
25	51.01	50.82	49.87	50.54	53.75	50.13	49.00	48.95	49.00	49.26	51.59	49.69	
26	51.01	50.66	49.77	50.55	52.43	49.86	48.91	49.02	48.84	49.83	51.73	49.65	
27	50.99	51.14	49.82	50.04	51.11	49.91	48.85	49.14	48.74	50.00	51.68	49.66	
28	50.78	51.03	50.10	50.42	50.22	50.55	49.26	48.99	48.71	50.08	51.22	49.29	
29	50.96	50.94	49.74	50.34	49.80	50.06	49.46	48.99	48.64	50.09	50.73	49.52	
30	51.17	50.72	50.30	50.36	49.67	50.29	49.38	49.03	48.92	49.70		49.57	
31		50.27		50.27	49.49		49.19		48.93	49.64		49.65	
MEAN	50.90	50.69	49.89	50.31	50.44	50.04	49.34	49.48	48.80	49.24	50.56	50.12	
MAX	51.17	51.19	50.65	50.78	53.75	52.28	49.91	49.85	49.05	50.09	51.73	51.68	53.75
MIN	50.12	50.05	49.43	49.51	49.49	49.21	48.85	48.95	48.60	48.54	49.52	49.29	48.54

ANNUAL MAX MOMENTARY GAGE HEIGHT 53.84 M (MSL), AT 13.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 48.50 M (MSL), RIVER BED 48.13 M (MSL)
LEFT BANK ELEVATION 56.76 M (MSL)
RIGHT BANK ELEVATION 57.57 M (MSL), DRAINAGE AREA 18692 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	305.20	273.20	109.50	185.20	176.40	65.70	128.30	59.40	31.80	29.00	84.20	353.20	
2	298.80	193.20	162.40	165.20	175.00	75.00	116.20	53.10	31.80	12.50	125.80	395.80	
3	156.80	210.80	226.80	165.20	127.00	74.00	116.20	96.30	29.70	8.00	179.20	408.40	
4	159.60	255.60	238.00	201.20	129.60	87.50	108.40	116.20	26.20	9.50	182.00	388.60	
5	287.60	324.40	134.80	186.80	170.80	100.70	97.40	115.00	26.90	11.00	238.00	392.20	
6	278.00	258.80	108.40	83.10	173.60	85.30	75.00	99.60	28.30	38.70	201.20	397.60	
7	282.80	290.80	88.60	165.20	154.00	70.20	74.00	95.20	12.50	41.40	199.60	302.00	
8	289.20	289.20	84.20	169.40	179.20	177.80	65.70	107.30	17.20	43.20	115.00	359.80	
9	270.00	287.60	84.20	199.60	166.60	431.90	67.50	69.30	33.20	41.40	223.60	156.80	
10	286.00	281.20	105.10	183.60	115.00	525.00	80.00	95.20	19.60	40.50	210.80	108.40	
11	295.60	198.00	127.00	182.00	159.60	274.80	87.50	111.70	19.60	39.60	225.20	101.80	
12	298.80	212.40	94.10	180.60	156.80	222.00	73.00	119.80	22.00	32.50	287.60	110.60	
13	271.60	290.80	175.00	191.60	110.60	168.00	68.40	113.90	27.60	63.00	239.60	100.70	
14	206.00	279.60	121.00	233.20	190.00	138.70	64.80	121.00	18.40	58.50	258.80	76.00	
15	284.40	234.80	100.70	239.60	257.20	121.00	64.80	117.40	19.60	50.40	127.00	99.60	
16	294.00	222.00	117.40	255.60	300.40	105.10	65.70	69.30	19.60	41.40	204.40	106.20	
17	284.40	246.00	112.80	258.80	169.40	78.00	52.20	77.00	19.00	46.80	156.80	101.80	
18	270.00	179.20	123.40	210.80	255.60	63.90	45.00	86.40	11.00	42.30	112.80	109.50	
19	254.00	147.00	175.00	198.00	358.00	54.90	42.30	98.50	13.50	21.40	199.60	91.90	
20	270.00	204.40	177.80	140.00	214.00	66.60	26.20	100.70	16.60	78.00	210.80	99.60	
21	310.00	204.40	110.60	185.20	130.90	128.30	45.00	101.80	16.00	84.20	179.20	66.60	
22	321.20	196.40	75.00	124.60	133.50	209.20	69.30	100.70	13.00	91.90	149.80	87.50	
23	308.40	218.80	76.00	112.80	127.00	212.40	67.50	63.00	21.40	87.50	313.20	100.70	
24	289.20	270.00	156.80	199.60	303.60	172.20	62.10	50.40	40.50	93.00	350.00	96.30	
25	295.60	265.20	123.40	220.40	844.00	158.20	36.00	32.50	36.00	59.40	392.20	102.90	
26	295.60	239.60	111.70	222.00	555.30	122.20	29.70	37.80	24.80	118.60	417.40	98.50	
27	292.40	316.40	117.40	145.60	311.60	128.30	25.50	48.60	18.40	140.00	408.40	99.60	
28	258.80	298.80	154.00	201.20	170.80	222.00	59.40	35.30	16.60	151.20	329.20	62.10	
29	287.60	284.40	108.40	188.40	115.00	148.40	78.00	35.30	13.00	152.60	250.80	84.20	
30	321.20	249.20	182.00	191.60	100.70	180.60	70.20	38.70	30.40	104.00		89.70	
31		177.80		177.80	81.00		53.10		31.10	97.40		98.50	
TOTAL	8322.80	7600.00	3881.50	5763.90	6612.20	4667.90	2114.40	2466.40	705.30	1928.90	6572.20	5247.10	55882.60 CMSDAY
MEAN	277.43	245.16	129.38	185.93	213.30	155.60	68.21	82.21	22.75	62.22	226.63	169.26	152.68 CMS
MAX	321.20	324.40	238.00	258.80	844.00	525.00	128.30	121.00	40.50	152.60	417.40	408.40	844.00 CMS
MIN	156.80	147.00	75.00	83.10	81.00	54.90	25.50	32.50	11.00	8.00	84.20	62.10	8.00 CMS
RUNOFF	719.090	656.640	335.362	498.001	571.294	403.307	182.684	213.097	60.938	166.657	567.838	453.350	4828.256 MCM

MOMENTARY PEAK 863.80 CMS, AT 53.84 M (MSL), AT 13.00 HOURS, ON AUG 25, 1987

RUNOFF YIELD 8.17 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 46.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAN RIVER BASIN

NAM HAENG AT BAN HUA MUANG, NAN (N.63)

LOCATION LAT. 18°-21'-48" N., LONG. 100°-43'-41" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN HUA MUANG, TAMBON SI SA KET, AMPHOE NA NOI, NAN.

DRAINAGE AREA 788 SQ.KM.

TYPE OF GAGE WATER-STAGE RECORDER.

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

BENCH MARK B.M.-H.D.

LOCATION ON LEFT BANK ABOUT 34 METERS FROM THE FIRST STAFF GAGE.

ELEVATION +11.00 M.(A.D.)

GAGE READING FREQUENCY RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING 1987 TO DATE.

RATED BY FLOAT -

RATED BY CURRENT METER 1987 TO DATE.

STABILITY OF CHANNEL REGIMES FAIRLY STABLE.

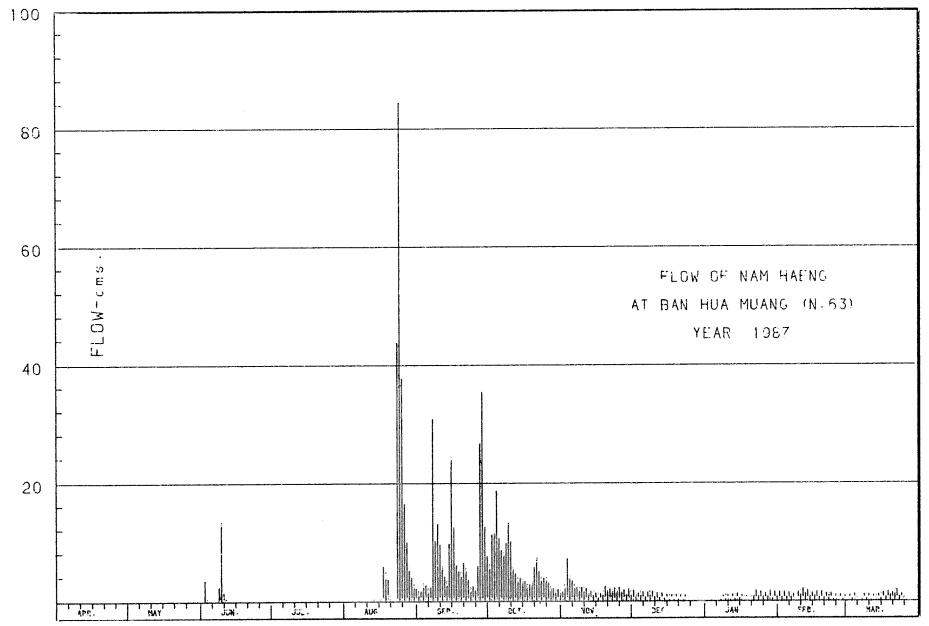
OVERBANK FLOW CONDITIONS NO OVERBANK FLOW.

GENERAL DESCRIPTION RECORDS GOOD. STREAM GAGING BEGAN ON MAY26,1987. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.48	0.50	0.48	0.77	1.26	0.75	0.78	0.63	0.75	0.64	
2	*******	*******	0.98	0.50	0.48	0.76	1.68	0.90	0.74	0.61	0.74	0.68	
3	*******	*******	0.59	0.49	0.48	0.93	1.74	1.35	0.72	0.65	0.75	0.70	
4	*******	*******	0.54	0.49	0.48	0.89	2.16	1.08	0.77	0.63	0.74	0.70	
5	*******	*******	0.52	0.51	0.48	0.83	1.68	0.97	0.75	0.64	0.73	0.63	
6	*******	*******	0.49	0.51	0.48	0.84	1.47	0.90	0.74	0.58	0.74	0.62	
7	*******	*******	0.51	0.52	0.47	2.82	1.45	0.84	0.74	0.64	0.70	0.68	
8	*******	*******	0.85	0.52	0.54	1.60	1.57	0.84	0.77	0.66	0.65	0.69	
9	*******	*******	1.84	0.52	0.47	1.86	1.85	0.84	0.76	0.69	0.74	0.70	
10	*******	*******	0.74	0.52	0.47	1.55	1.59	0.84	0.75	0.68	0.78	0.69	
11	*******	*******	0.60	0.51	0.47	1.24	1.22	0.82	0.73	0.68	0.81	0.67	
12	*******	*******	0.59	0.51	0.52	1.05	1.10	0.78	0.72	0.69	0.81	0.67	
13	*******	*******	0.53	0.51	0.57	0.96	1.03	0.76	0.72	0.70	0.78	0.67	
14	*******	*******	0.51	0.51	0.47	1.56	1.02	0.77	0.71	0.71	0.75	0.69	
15	*******	*******	0.52	0.51	0.48	2.47	1.00	0.73	0.69	0.72	0.73	0.71	
16	*******	*******	0.53	0.51	0.62	1.77	0.96	0.72	0.68	0.68	0.76	0.73	
17	*******	*******	0.53	0.51	1.23	1.31	0.91	0.71	0.68	0.65	0.75	0.74	
18	*******	*******	0.51	0.50	1.13	1.14	0.90	0.77	0.68	0.65	0.74	0.75	
19	*******	*******	0.51	0.50	1.00	1.13	0.96	0.86	0.69	0.65	0.75	0.78	
20	*******	*******	0.50	0.52	0.68	1.29	1.21	0.84	0.69	0.64	0.73	0.73	
21	*******	*******	0.51	0.52	0.62	1.20	1.37	0.81	0.68	0.75	0.72	0.80	
22	*******	*******	0.50	0.51	0.60	0.99	1.14	0.82	0.67	0.77	0.72	0.79	
23	*******	*******	0.50	0.50	3.35	0.84	1.04	0.83	0.67	0.75	0.72	0.75	
24	*******	*******	0.49	0.51	4.82	0.86	1.02	0.82	0.64	0.75	0.69	0.70	
25	*******	*******	0.50	0.52	3.10	0.88	1.03	0.84	0.62	0.75	0.68	0.62	
26	*******	0.50	0.49	0.50	2.07	1.23	0.93	0.82	0.64	0.72	0.66	0.55	
27	*******	0.49	0.46	0.51	1.58	2.62	0.86	0.79	0.62	0.75	0.68	0.49	
28	*******	0.49	0.51	0.50	1.23	3.00	0.82	0.79	0.60	0.77	0.69	0.48	
29	*******	0.48	0.50	0.50	1.03	1.82	0.82	0.81	0.61	0.71	0.65	0.50	
30	*******	0.51	0.50	0.49	0.91	1.39	0.80	0.78	0.59	0.75		0.49	
31		0.50		0.49	0.82		0.78		0.61	0.75		0.51	
MEAN	*******	*******	0.59	0.51	1.04	1.39	1.21	0.84	0.69	0.69	0.73	0.66	
MAX	*******	0.51	1.84	0.52	4.82	3.00	2.16	1.35	0.78	0.77	0.81	0.80	4.82
MIN	*******	*******	0.46	0.49	0.47	0.76	0.78	0.71	0.59	0.58	0.65	0.48	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.04 M (A.D), AT 13.00 HOURS, ON AUG 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.18 M (A.D)
LEFT BANK ELEVATION 7.06 M (A.D)
RIGHT BANK ELEVATION 5.11 M (A.D), DRAINAGE AREA 788 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.09	0.11	0.09	1.69	6.20	1.52	1.77	0.64	1.52	0.71	
2	*******	*******	3.53	0.11	0.09	1.61	11.28	2.81	1.44	0.51	1.44	0.98	
3	*******	*******	0.41	0.10	0.09	3.08	12.09	7.15	1.28	0.78	1.52	1.12	
4	*******	*******	0.24	0.10	0.09	2.72	18.68	4.46	1.69	0.64	1.44	1.12	
5	*******	*******	0.18	0.14	0.09	2.19	11.28	3.44	1.52	0.71	1.36	0.64	
6	*******	*******	0.10	0.14	0.09	2.28	8.58	2.81	1.44	0.37	1.44	0.58	
7	*******	*******	0.14	0.18	0.08	31.44	8.33	2.28	1.44	0.71	1.12	0.98	
8	*******	*******	2.37	0.18	0.24	10.20	9.83	2.28	1.69	0.85	0.78	1.05	
9	*******	*******	13.50	0.18	0.08	13.80	13.65	2.28	1.61	1.05	1.44	1.12	
10	*******	*******	1.44	0.18	0.08	9.57	10.07	2.28	1.52	0.98	1.77	1.05	
11	*******	*******	0.44	0.14	0.08	6.01	5.81	2.11	1.36	0.98	2.02	0.92	
12	*******	*******	0.41	0.14	0.18	4.18	4.65	1.77	1.28	1.05	2.02	0.92	
13	*******	*******	0.21	0.14	0.34	3.35	3.99	1.61	1.28	1.12	1.77	0.92	
14	*******	*******	0.14	0.14	0.08	9.70	3.90	1.69	1.20	1.20	1.52	1.05	
15	*******	*******	0.18	0.14	0.09	24.43	3.71	1.36	1.05	1.28	1.36	1.20	
16	*******	*******	0.21	0.14	0.58	12.50	3.35	1.28	0.98	0.98	1.61	1.36	
17	*******	*******	0.21	0.14	5.91	6.71	2.90	1.20	0.98	0.78	1.52	1.44	
18	*******	*******	0.14	0.11	4.94	5.03	2.81	1.69	0.98	0.78	1.44	1.52	
19	*******	*******	0.14	0.11	3.71	4.94	3.35	2.46	1.05	0.78	1.52	1.77	
20	*******	*******	0.11	0.18	0.98	6.50	5.71	2.28	1.05	0.71	1.36	1.36	
21	*******	*******	0.14	0.18	0.58	5.61	7.37	2.02	0.98	1.52	1.28	1.93	
22	*******	*******	0.11	0.14	0.44	3.62	5.03	2.11	0.92	1.69	1.28	1.85	
23	*******	*******	0.11	0.11	43.75	2.28	4.09	2.19	0.92	1.52	1.28	1.52	
24	*******	*******	0.10	0.14	85.02	2.46	3.90	2.11	0.71	1.52	1.05	1.12	
25	*******	*******	0.11	0.18	37.70	2.63	3.99	2.28	0.58	1.52	0.98	0.58	
26	*******	0.11	0.10	0.11	17.12	5.91	3.08	2.11	0.71	1.28	0.85	0.28	
27	*******	0.10	0.07	0.14	9.95	27.30	2.46	1.85	0.58	1.52	0.98	0.10	
28	*******	0.10	0.14	0.11	5.91	35.40	2.11	1.85	0.44	1.69	1.05	0.09	
29	*******	0.09	0.11	0.11	3.99	13.20	2.11	2.02	0.51	1.20	0.78	0.11	
30	*******	0.14	0.11	0.10	2.90	7.59	1.93	1.77	0.41	1.52		0.10	
31		0.11		0.10	2.11		1.77		0.51	1.52		0.14	
TOTAL	*******	*******	25.29	4.22	227.38	267.93	188.01	69.07	33.88	33.40	39.50	29.63	******** CMSDAY
MEAN	*******	*******	0.84	0.14	7.33	8.93	6.06	2.30	1.09	1.08	1.36	0.96	******** CMS
MAX	*******	0.14	13.50	0.18	85.02	35.40	18.68	7.15	1.77	1.69	2.02	1.93	85.02 CMS
MIN	*******	*******	0.07	0.10	0.08	1.61	1.77	1.20	0.41	0.37	0.78	0.09	******** CMS
RUNOFF	*******	*******	2.185	0.365	19.646	23.149	16.244	5.968	2.927	2.886	3.413	2.560	******** MCM

MOMENTARY PEAK 91.84 CMS, AT 5.04 M (A.D), AT 13.00 HOURS, ON AUG 24, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 116.55 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAM MAE KOK BASIN

NAM MAE THALOP LUANG, BAN MAE THALOP LUANG, CHIANG MAI (G.7)

LOCATION — LAT. 19°-42'-40" N., LONG. 99°-12'-50" E., ON RIGHT BANK ABOUT 200 METERS DOWNSTREAM FROM DAMSITE, BAN MAE THALOP LUANG, AMPHOE FANG, CHIANG MAI.

DRAINAGE AREA — 95 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 4 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +4.608 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 — 1986 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1986 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1986 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

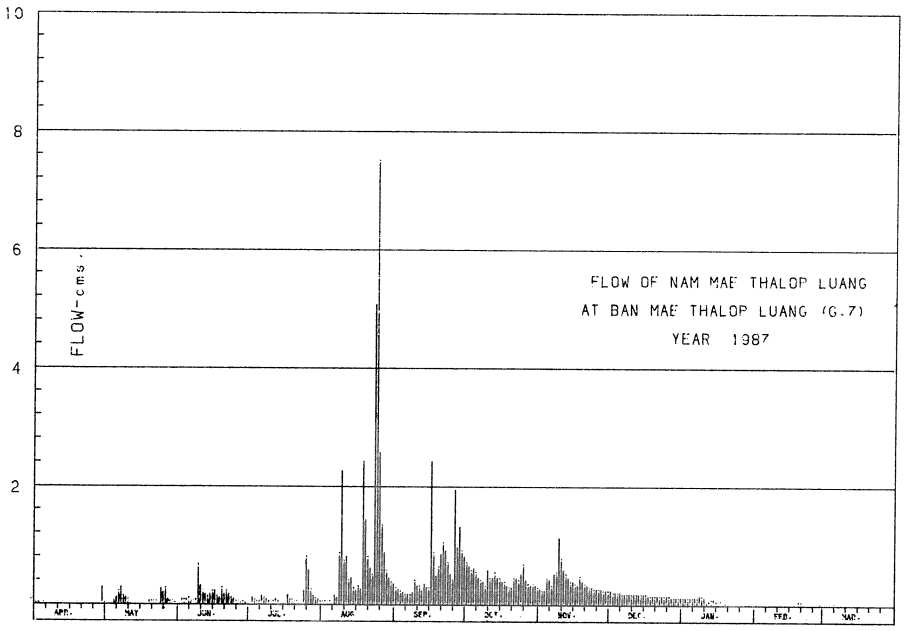
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE- DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.58	0.61	0.59	0.61	0.69	0.82	0.68	0.67	0.63	0.60	0.58	
2	0.60	0.58	0.62	0.63	0.61	0.68	0.80	0.67	0.66	0.63	0.59	0.58	
3	0.60	0.58	0.62	0.62	0.61	0.67	0.78	0.67	0.66	0.63	0.60	0.57	
4	0.60	0.63	0.62	0.61	0.61	0.66	0.79	0.74	0.66	0.63	0.60	0.58	
5	0.59	0.63	0.63	0.61	0.60	0.65	0.77	0.73	0.66	0.63	0.59	0.58	
6	0.57	0.67	0.61	0.64	0.66	0.65	0.74	0.70	0.65	0.63	0.59	0.57	
7	0.57	0.69	0.61	0.63	0.63	0.65	0.73	0.76	0.65	0.63	0.60	0.58	
8	0.60	0.64	0.62	0.62	0.87	0.66	0.72	0.77	0.65	0.64	0.58	0.57	
9	0.60	0.63	0.81	0.61	1.20	0.73	0.70	0.94	0.65	0.64	0.57	0.58	
10	0.60	0.62	0.70	0.61	0.83	0.70	0.78	0.84	0.65	0.63	0.59	0.57	
11	0.60	0.60	0.67	0.61	0.85	0.70	0.74	0.78	0.65	0.60	0.58	0.57	
12	0.60	0.60	0.65	0.62	0.73	0.67	0.74	0.76	0.65	0.61	0.60	0.57	
13	0.60	0.60	0.64	0.61	0.74	0.71	0.77	0.74	0.65	0.62	0.59	0.57	
14	0.60	0.58	0.65	0.60	0.69	0.69	0.74	0.72	0.65	0.62	0.58	0.57	
15	0.60	0.58	0.67	0.61	0.67	0.69	0.74	0.72	0.65	0.61	0.58	0.57	
16	0.60	0.57	0.67	0.60	0.70	1.23	0.72	0.71	0.65	0.61	0.59	0.58	
17	0.60	0.57	0.64	0.66	0.68	0.87	0.72	0.70	0.64	0.61	0.59	0.57	
18	0.60	0.58	0.63	0.62	1.23	0.75	0.70	0.75	0.64	0.61	0.59	0.57	
19	0.59	0.61	0.69	0.62	1.02	0.80	0.69	0.72	0.64	0.59	0.61	0.58	
20	0.60	0.61	0.65	0.61	0.85	0.86	0.69	0.71	0.64	0.59	0.61	0.57	
21	0.59	0.61	0.67	0.61	0.79	0.92	0.74	0.70	0.64	0.59	0.60	0.57	
22	0.59	0.61	0.65	0.60	0.76	0.88	0.74	0.69	0.64	0.59	0.60	0.57	
23	0.59	0.60	0.63	0.59	1.55	0.82	0.73	0.69	0.64	0.60	0.60	0.57	
24	0.59	0.70	0.62	0.67	1.73	0.76	0.76	0.68	0.64	0.60	0.59	0.58	
25	0.57	0.66	0.61	0.85	1.26	0.73	0.81	0.68	0.64	0.59	0.59	0.57	
26	0.57	0.69	0.61	0.78	1.00	1.13	0.73	0.68	0.64	0.60	0.59	0.57	
27	0.58	0.62	0.60	0.68	0.87	0.91	0.71	0.68	0.63	0.60	0.60	0.57	
28	0.58	0.61	0.61	0.64	0.78	0.99	0.70	0.67	0.63	0.60	0.59	0.57	
29	0.69	0.61	0.60	0.63	0.74	0.88	0.71	0.67	0.63	0.61	0.59	0.57	
30	0.59	0.60	0.60	0.62	0.72	0.85	0.70	0.67	0.63	0.60		0.57	
31		0.60		0.61	0.71		0.69		0.63	0.59		0.57	
MEAN	0.60	0.61	0.64	0.63	0.85	0.79	0.74	0.72	0.65	0.61	0.59	0.57	
MAX	0.69	0.70	0.81	0.85	1.73	1.23	0.82	0.94	0.67	0.64	0.61	0.58	1.73
MIN	0.57	0.57	0.60	0.59	0.60	0.65	0.69	0.67	0.63	0.59	0.57	0.57	0.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.21 M (A.D), AT 20.00 HOURS, ON SEP 16, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.56 M (A.D)
LEFT BANK ELEVATION 3.21 M (A.D)
RIGHT BANK ELEVATION 4.66 M (A.D), DRAINAGE AREA 85 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.030	0.024	0.059	0.027	0.059	0.291	0.716	0.262	0.233	0.117	0.030	0.024	
2	0.030	0.024	0.088	0.117	0.059	0.262	0.650	0.233	0.204	0.117	0.027	0.024	
3	0.030	0.024	0.088	0.088	0.059	0.233	0.584	0.233	0.204	0.117	0.030	0.021	
4	0.030	0.117	0.088	0.059	0.059	0.204	0.617	0.452	0.204	0.117	0.030	0.024	
5	0.027	0.117	0.117	0.059	0.030	0.175	0.551	0.419	0.204	0.117	0.027	0.024	
6	0.021	0.233	0.059	0.146	0.204	0.175	0.452	0.320	0.175	0.117	0.027	0.021	
7	0.021	0.291	0.059	0.117	0.117	0.175	0.419	0.518	0.175	0.117	0.030	0.024	
8	0.030	0.146	0.088	0.088	0.881	0.204	0.386	0.551	0.175	0.146	0.024	0.021	
9	0.030	0.117	0.683	0.059	2.270	0.419	0.320	1.128	0.175	0.146	0.021	0.024	
10	0.030	0.088	0.320	0.059	0.749	0.320	0.584	0.782	0.175	0.117	0.027	0.021	
11	0.030	0.030	0.233	0.059	0.815	0.320	0.452	0.584	0.175	0.030	0.024	0.021	
12	0.030	0.030	0.175	0.088	0.419	0.233	0.452	0.518	0.175	0.059	0.030	0.021	
13	0.030	0.030	0.146	0.059	0.452	0.353	0.551	0.452	0.175	0.088	0.027	0.021	
14	0.030	0.024	0.175	0.030	0.291	0.291	0.452	0.386	0.175	0.088	0.024	0.021	
15	0.030	0.024	0.233	0.059	0.233	0.291	0.452	0.386	0.175	0.059	0.024	0.021	
16	0.030	0.021	0.233	0.030	0.320	2.423	0.386	0.353	0.175	0.059	0.027	0.024	
17	0.030	0.021	0.146	0.204	0.262	0.881	0.386	0.320	0.146	0.059	0.027	0.021	
18	0.030	0.024	0.117	0.088	2.423	0.485	0.320	0.485	0.146	0.059	0.027	0.021	
19	0.027	0.059	0.291	0.088	1.440	0.650	0.291	0.386	0.146	0.027	0.059	0.024	
20	0.030	0.059	0.175	0.059	0.815	0.848	0.291	0.353	0.146	0.027	0.059	0.021	
21	0.027	0.059	0.233	0.059	0.617	1.054	0.452	0.320	0.146	0.027	0.030	0.021	
22	0.027	0.059	0.175	0.030	0.518	0.914	0.452	0.291	0.146	0.027	0.030	0.021	
23	0.027	0.030	0.117	0.027	5.075	0.716	0.419	0.291	0.146	0.030	0.030	0.021	
24	0.027	0.320	0.088	0.233	7.517	0.518	0.518	0.262	0.146	0.030	0.027	0.024	
25	0.021	0.204	0.059	0.815	2.576	0.419	0.683	0.262	0.146	0.027	0.027	0.021	
26	0.021	0.291	0.059	0.584	1.350	1.941	0.419	0.262	0.146	0.030	0.027	0.021	
27	0.024	0.088	0.030	0.262	0.881	1.017	0.353	0.262	0.117	0.030	0.030	0.021	
28	0.024	0.059	0.059	0.146	0.584	1.313	0.320	0.233	0.117	0.030	0.027	0.021	
29	0.291	0.059	0.030	0.117	0.452	0.914	0.353	0.233	0.117	0.059	0.027	0.021	
30	0.027	0.030	0.030	0.088	0.386	0.815	0.320	0.233	0.117	0.030		0.021	
31		0.030		0.059	0.353		0.291		0.117	0.027		0.021	
TOTAL	1.092	2.732	4.453	4.003	32.266	18.854	13.892	11.770	5.019	2.130	0.856	0.678	97.745 CMSDAY
MEAN	0.036	0.088	0.148	0.129	1.041	0.628	0.448	0.392	0.162	0.069	0.030	0.022	0.267 CMS
MAX	0.291	0.320	0.683	0.815	7.517	2.423	0.716	1.128	0.233	0.146	0.059	0.024	7.517 CMS
MIN	0.021	0.021	0.030	0.027	0.030	0.175	0.291	0.233	0.117	0.027	0.021	0.021	0.021 CMS
RUNOFF	0.094	0.236	0.385	0.346	2.788	1.629	1.200	1.017	0.434	0.184	0.074	0.059	8.445 MCM

MOMENTARY PEAK 17.59 CMS, AT 2.21 M (A.D), AT 20.00 HOURS, ON SEP 16, 1987

RUNOFF YIELD 3.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 206.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +0.00 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 20 METERS WEST OF THE GAGE SITE.

ELEVATION — +25.608 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.

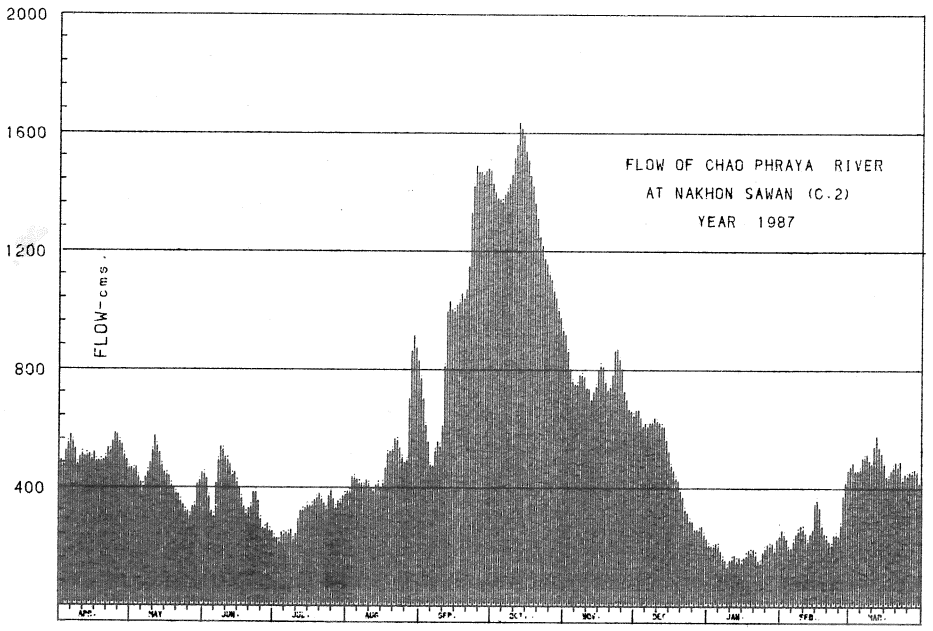
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 167 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	19.55	19.45	19.41	18.34	19.09	20.61	22.45	21.06	20.20	18.20	18.43	19.52	
2	19.53	19.46	19.29	18.28	19.13	20.34	22.36	20.91	20.24	18.13	18.41	19.53	
3	19.68	19.46	19.04	18.26	19.32	20.05	22.33	20.69	20.11	18.16	18.26	19.46	
4	19.82	19.36	18.75	18.38	19.35	19.81	22.30	20.58	20.04	18.19	18.13	19.42	
5	19.89	19.23	18.72	18.40	19.28	19.53	22.30	20.51	20.04	18.19	18.09	19.47	
6	19.84	19.22	19.22	18.38	19.27	19.48	22.34	20.54	20.04	18.02	18.28	19.60	
7	19.71	19.31	19.59	18.41	19.22	19.72	22.39	20.62	20.05	17.93	18.36	19.64	
8	19.54	19.43	19.74	18.43	19.22	19.81	22.43	20.65	20.08	17.83	18.46	19.65	
9	19.60	19.52	19.74	18.29	19.27	19.79	22.52	20.60	20.11	17.76	18.51	19.61	
10	19.68	19.72	19.60	18.35	19.25	20.01	22.63	20.50	20.10	17.84	18.51	19.52	
11	19.61	19.88	19.60	18.62	19.14	20.75	22.75	20.46	20.05	17.92	18.38	19.79	
12	19.66	19.79	19.50	18.76	19.14	21.30	22.89	20.36	20.04	17.94	18.27	19.89	
13	19.64	19.66	19.39	18.82	19.19	21.43	22.87	20.42	20.00	17.89	18.36	19.78	
14	19.61	19.52	19.39	18.81	19.25	21.32	22.80	20.52	19.87	17.89	18.49	19.66	
15	19.66	19.39	19.28	18.90	19.14	21.33	22.70	20.68	19.68	17.85	18.89	19.56	
16	19.58	19.39	19.15	18.84	19.26	21.37	22.61	20.76	19.52	17.89	19.00	19.33	
17	19.55	19.33	19.02	18.90	19.45	21.42	22.51	20.72	19.42	18.00	18.82	19.35	
18	19.58	19.23	18.83	18.94	19.69	21.48	22.41	20.57	19.34	18.05	18.56	19.42	
19	19.56	19.14	18.76	19.02	19.68	21.46	22.29	20.44	19.26	18.07	18.37	19.51	
20	19.63	19.10	18.80	19.05	19.74	21.52	22.14	20.51	19.15	18.07	18.34	19.54	
21	19.72	19.04	18.88	19.00	19.85	21.75	22.01	20.62	19.00	18.01	18.22	19.52	
22	19.72	18.97	19.07	18.89	19.86	22.19	21.91	20.92	18.83	17.82	18.20	19.55	
23	19.81	18.86	19.13	18.83	19.73	22.43	21.82	20.91	18.73	17.84	18.34	19.32	
24	19.95	18.80	18.93	19.01	19.63	22.57	21.75	20.83	18.65	18.00	18.40	19.37	
25	19.90	18.75	18.66	19.15	19.53	22.54	21.68	20.69	18.58	18.14	18.32	19.39	
26	19.84	18.72	18.46	18.96	19.60	22.52	21.61	20.46	18.50	18.17	18.57	19.40	
27	19.77	18.83	18.50	18.86	20.34	22.52	21.53	20.33	18.44	18.19	19.02	19.42	
28	19.66	18.89	18.54	18.93	20.92	22.53	21.44	20.24	18.48	18.18	19.28	19.44	
29	19.56	19.20	18.47	18.95	21.05	22.57	21.34	20.19	18.50	18.10	19.42	19.44	
30	19.48	19.31	18.40	19.01	20.95	22.53	21.24	20.17	18.40	18.26		19.23	
31		19.38		19.08	20.78		21.13		18.27	18.38		19.32	
MEAN	19.68	19.27	19.06	18.74	19.62	21.22	22.18	20.58	19.41	18.03	18.51	19.50	
MAX	19.95	19.88	19.74	19.15	21.05	22.57	22.89	21.06	20.24	18.38	19.42	19.89	22.89
MIN	19.48	18.72	18.40	18.26	19.09	19.48	21.13	20.17	18.27	17.76	18.09	19.23	17.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 22.93 M (MSL), AT 23.00 HOURS, ON OCT 12, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 15.37 M (MSL)
LEFT BANK ELEVATION 25.80 M (MSL)
RIGHT BANK ELEVATION 26.23 M (MSL), DRAINAGE AREA 110569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	490.0	466.0	456.4	240.2	387.0	777.9	1437.5	917.2	662.0	215.0	256.7	482.8	
2	485.2	468.4	429.8	229.4	395.3	701.2	1399.6	869.2	673.2	203.1	252.9	485.2	
3	522.0	468.4	377.0	225.8	436.4	620.0	1387.3	801.1	636.8	208.2	225.8	468.4	
4	557.4	445.2	319.0	247.4	443.0	554.7	1375.0	769.2	617.2	213.3	203.1	458.8	
5	576.3	416.6	313.0	251.0	427.6	485.2	1375.0	748.9	617.2	213.3	196.4	470.8	
6	562.8	414.4	414.4	247.4	425.4	473.2	1391.4	757.6	617.2	185.2	229.4	502.0	
7	529.5	434.2	499.6	252.9	414.4	532.0	1411.9	780.8	620.0	170.8	243.8	512.0	
8	487.6	461.2	537.0	256.7	414.4	554.7	1428.9	789.5	628.4	154.8	262.4	514.5	
9	502.0	482.8	537.0	231.2	425.4	549.5	1467.6	775.0	636.8	144.0	271.9	504.5	
10	522.0	532.0	502.0	242.0	421.0	608.8	1515.2	746.0	634.0	156.4	271.9	482.8	
11	504.5	573.6	502.0	293.0	397.4	819.0	1569.0	734.8	620.0	169.2	247.4	549.5	
12	517.0	549.5	478.0	321.0	397.4	995.0	1633.4	706.8	617.2	172.4	227.6	576.3	
13	512.0	517.0	451.8	333.0	407.9	1038.5	1624.2	723.6	606.0	164.4	243.8	547.0	
14	504.5	482.8	451.8	331.0	421.0	1001.6	1592.0	751.8	570.9	164.4	268.1	517.0	
15	517.0	451.8	427.6	349.0	397.4	1004.9	1546.0	798.2	522.0	158.0	347.0	492.4	
16	497.2	451.8	399.5	337.0	423.2	1018.1	1506.4	822.0	482.8	164.4	369.0	438.6	
17	490.0	438.6	373.0	349.0	466.0	1035.0	1463.3	810.0	458.8	182.0	333.0	443.0	
18	497.2	416.6	335.0	357.0	524.5	1056.0	1420.3	766.3	440.8	190.0	281.4	458.8	
19	492.4	397.4	321.0	373.0	522.0	1049.0	1370.9	729.2	423.2	193.2	245.6	480.4	
20	509.5	389.0	329.0	379.0	537.0	1070.4	1310.0	748.9	399.5	193.2	240.2	487.6	
21	532.0	377.0	345.0	369.0	565.5	1157.0	1258.0	780.8	369.0	183.6	218.6	482.8	
22	532.0	363.0	383.0	347.0	568.2	1330.0	1218.9	872.4	335.0	153.2	215.0	490.0	
23	554.7	341.0	395.3	335.0	534.5	1428.9	1183.8	869.2	315.0	156.4	240.2	436.4	
24	592.5	329.0	355.0	371.0	509.5	1489.1	1157.0	843.6	299.0	182.0	251.0	447.4	
25	579.0	319.0	301.0	399.5	485.2	1476.2	1130.4	801.1	285.2	204.8	236.6	451.8	
26	562.8	313.0	262.4	361.0	502.0	1467.6	1103.8	734.8	270.0	209.9	283.3	454.0	
27	544.5	335.0	270.0	341.0	701.2	1467.6	1074.1	698.4	258.6	213.3	373.0	458.8	
28	517.0	347.0	277.6	355.0	872.4	1471.9	1042.0	673.2	266.2	211.6	427.6	463.6	
29	492.4	410.0	264.3	359.0	914.0	1489.1	1008.2	659.2	270.0	198.0	458.8	463.6	
30	473.2	434.2	251.0	371.0	882.0	1471.9	975.2	653.6	251.0	225.8		416.6	
31		449.6		385.0	828.0		939.6		227.6	247.4		436.4	
TOTAL	15656.2	13275.1	11558.5	9839.5	16046.2	30194.0	41315.9	23132.4	14630.6	5801.3	7921.5	14873.8	204245.0 CMSDAY
MEAN	521.9	428.2	385.3	317.4	517.6	1006.5	1332.8	771.1	472.0	187.1	273.2	479.8	558.0 CMS
MAX	592.5	573.6	537.0	399.5	914.0	1489.1	1633.4	917.2	673.2	247.4	458.8	576.3	1633.4 CMS
MIN	473.2	313.0	251.0	225.8	387.0	473.2	939.6	653.6	227.6	144.0	196.4	416.6	144.0 CMS
RUNOFF	1352.70	1146.97	998.65	850.13	1386.39	2608.76	3569.69	1998.64	1264.08	501.23	684.42	1285.10	17646.77 MCM

MOMENTARY PEAK 1651.80 CMS, AT 22.93 M (MSL), AT 23.00 HOURS, ON OCT 12, 1987
RUNOFF YIELD 5.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHAO PHRAYA RIVER BASIN

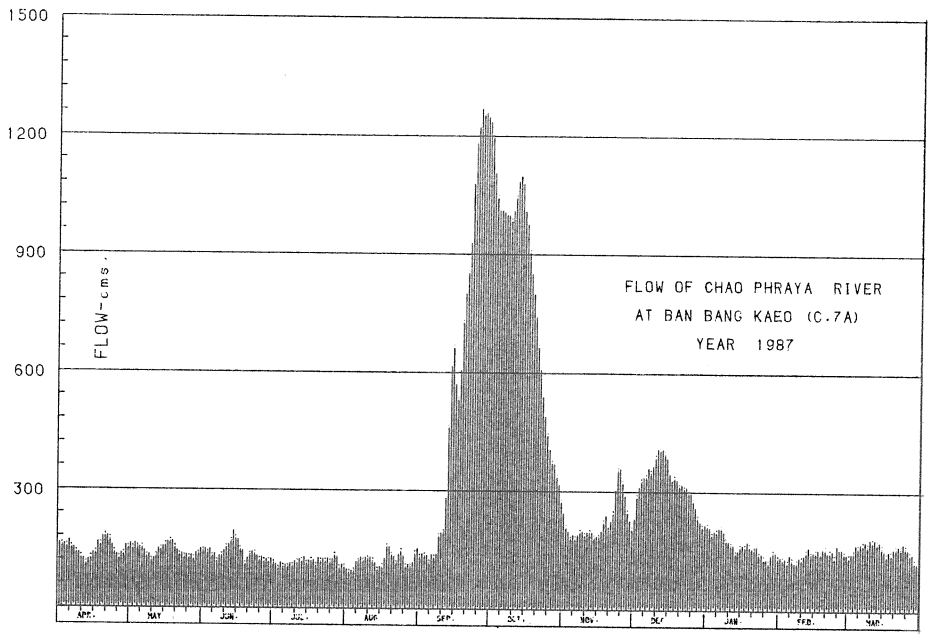
CHAO PHRAYA RIVER AT BAN BANG KAEO, ANG THONG (C.7A)

LOCATION	LAT. 14°-35'-05" N., LONG. 100°-27'-12" E., ON LEFT BANK ABOUT 40 METERS DOWNSTREAM FROM ANG THONG BRIDGE, BAN BANG KAEO, AMPHOE MUANG, ANG THONG.
DRAINAGE AREA	FLOOD PLAIN.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 21 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+7.15 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	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1976-1979, 1984 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1976-1979, 1984 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 173 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.72	0.64	0.41	0.24	0.54	5.67	1.29	1.20	1.12	0.51	0.58	
2	0.74	0.69	0.64	0.34	0.23	0.56	5.35	1.09	1.61	1.05	0.52	0.59	
3	0.72	0.73	0.60	0.30	0.22	0.57	5.16	0.98	1.74	0.96	0.49	0.66	
4	0.72	0.70	0.63	0.37	0.26	0.53	5.03	0.88	1.88	0.99	0.46	0.75	
5	0.78	0.66	0.53	0.34	0.39	0.43	5.06	0.92	1.90	1.02	0.56	0.75	
6	0.69	0.70	0.54	0.33	0.44	0.54	5.02	0.89	1.95	1.04	0.51	0.77	
7	0.65	0.60	0.43	0.34	0.48	0.53	5.02	0.92	2.05	1.09	0.40	0.81	
8	0.60	0.53	0.50	0.36	0.46	0.55	4.99	1.01	2.02	0.97	0.47	0.81	
9	0.55	0.52	0.55	0.36	0.48	0.92	4.96	0.98	2.08	0.86	0.51	0.78	
10	0.51	0.45	0.60	0.40	0.50	0.94	5.03	0.95	2.24	0.80	0.53	0.85	
11	0.44	0.45	0.70	0.43	0.48	1.00	5.16	0.96	2.32	0.78	0.55	0.87	
12	0.38	0.54	0.71	0.44	0.46	1.54	5.28	1.00	2.34	0.74	0.66	0.85	
13	0.42	0.63	0.82	0.45	0.37	2.66	5.35	0.96	2.32	0.63	0.70	0.83	
14	0.50	0.67	0.96	0.48	0.28	3.37	5.26	0.91	2.29	0.64	0.62	0.81	
15	0.55	0.68	0.87	0.40	0.30	3.61	5.05	0.89	2.19	0.75	0.61	0.75	
16	0.60	0.75	0.80	0.42	0.35	3.16	4.90	0.92	2.01	0.74	0.66	0.65	
17	0.75	0.76	0.67	0.46	0.46	3.01	4.64	0.98	1.85	0.75	0.66	0.60	
18	0.75	0.81	0.60	0.43	0.73	3.32	4.40	1.18	1.93	0.80	0.63	0.63	
19	0.85	0.77	0.38	0.36	0.68	3.90	4.22	1.25	1.86	0.77	0.67	0.64	
20	0.91	0.70	0.46	0.47	0.57	4.20	3.94	1.11	1.79	0.68	0.72	0.68	
21	0.87	0.60	0.57	0.45	0.50	4.43	3.62	1.15	1.78	0.70	0.60	0.74	
22	0.85	0.56	0.58	0.45	0.41	4.71	3.33	1.34	1.75	0.71	0.66	0.73	
23	0.69	0.54	0.59	0.45	0.54	5.28	3.05	1.68	1.74	0.61	0.64	0.74	
24	0.61	0.52	0.50	0.46	0.65	5.60	2.79	2.05	1.68	0.58	0.56	0.78	
25	0.52	0.52	0.47	0.43	0.51	5.76	2.55	2.04	1.63	0.54	0.73	0.75	
26	0.50	0.51	0.48	0.45	0.35	5.88	2.31	1.85	1.54	0.47	0.73	0.67	
27	0.55	0.51	0.45	0.57	0.34	5.85	2.15	1.59	1.40	0.46	0.67	0.63	
28	0.58	0.49	0.44	0.49	0.35	5.85	2.10	1.35	1.26	0.55	0.63	0.59	
29	0.69	0.56	0.45	0.32	0.38	5.84	1.94	1.17	1.15	0.65	0.58	0.49	
30	0.69	0.58	0.45	0.34	0.61	5.78	1.77	1.06	1.11	0.60		0.40	
31		0.63		0.34	0.65		1.52		1.10	0.55		0.41	
MEAN	0.65	0.62	0.59	0.41	0.44	3.03	4.08	1.18	1.80	0.76	0.59	0.70	
MAX	0.91	0.81	0.96	0.57	0.73	5.88	5.67	2.05	2.34	1.12	0.73	0.87	5.88
MIN	0.38	0.45	0.38	0.30	0.22	0.43	1.52	0.88	1.10	0.46	0.40	0.40	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.90 M (MSL), AT 12.00 HOURS, ON SEP 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED -5.71 M (MSL)
LEFT BANK ELEVATION 8.02 M (MSL)
RIGHT BANK ELEVATION 7.84 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	163.2	161.8	150.6	120.3	98.8	137.2	1201.0	243.5	230.0	218.0	133.3	142.4	
2	164.6	157.6	150.6	111.2	97.6	139.8	1105.0	213.6	291.5	208.0	134.6	143.7	
3	161.8	163.2	145.0	106.0	96.4	141.1	1048.0	198.2	311.0	195.4	130.7	153.4	
4	161.8	159.0	149.2	115.1	101.2	135.9	1009.0	184.2	332.0	199.6	126.8	166.0	
5	170.2	153.4	135.9	111.2	117.7	122.9	1018.0	189.8	335.0	203.8	139.8	166.0	
6	157.6	159.0	137.2	109.9	124.2	137.2	1006.0	185.6	342.5	206.6	133.3	168.8	
7	152.0	145.0	122.9	111.2	129.4	135.9	1006.0	189.8	358.7	213.6	119.0	174.4	
8	145.0	135.9	132.0	113.8	126.8	138.5	997.5	202.4	353.5	196.8	128.1	174.4	
9	138.5	134.6	138.5	113.8	129.4	189.8	990.0	198.2	364.0	181.4	133.3	170.2	
10	133.3	125.5	145.0	119.0	132.0	192.6	1009.0	194.0	392.0	173.0	135.9	180.0	
11	124.2	125.5	159.0	122.9	129.4	201.0	1048.0	195.4	406.0	170.2	138.5	182.8	
12	116.4	137.2	160.4	124.2	126.8	281.0	1084.0	201.0	409.5	164.6	153.4	180.0	
13	121.6	149.2	175.8	125.5	115.1	465.5	1105.0	195.4	406.0	149.2	159.0	177.2	
14	132.0	154.8	195.4	129.4	103.6	615.4	1078.0	188.4	400.7	150.6	147.8	174.4	
15	138.5	156.2	182.8	119.0	106.0	668.2	1015.0	185.6	383.2	166.0	146.4	166.0	
16	145.0	166.0	173.0	121.6	112.5	569.2	975.0	189.8	351.7	164.6	153.4	152.0	
17	166.0	167.4	154.8	126.8	126.8	536.2	910.0	198.2	327.5	166.0	153.4	145.0	
18	166.0	174.4	145.0	122.9	163.2	604.4	850.0	227.0	339.5	173.0	149.2	149.2	
19	180.0	168.8	116.4	113.8	156.2	732.0	805.0	237.5	329.0	168.8	154.8	150.6	
20	188.4	159.0	126.8	128.1	141.1	800.0	740.8	216.5	318.5	156.2	161.8	156.2	
21	182.8	145.0	141.1	125.5	132.0	857.5	670.4	222.5	317.0	159.0	145.0	164.6	
22	180.0	139.8	142.4	125.5	120.3	927.5	606.6	251.0	312.5	160.4	153.4	163.2	
23	157.6	137.2	143.7	125.5	137.2	1084.0	545.0	302.0	311.0	146.4	150.6	164.6	
24	146.4	134.6	132.0	126.8	152.0	1180.0	488.2	358.7	302.0	142.4	139.8	170.2	
25	134.6	134.6	128.1	122.9	133.3	1228.0	446.2	357.0	294.5	137.2	163.2	166.0	
26	132.0	133.3	129.4	125.5	112.5	1268.0	404.2	327.5	281.0	128.1	163.2	154.8	
27	138.5	133.3	125.5	141.1	111.2	1257.5	376.3	288.5	260.0	126.8	154.8	149.2	
28	142.4	130.7	124.2	130.7	112.5	1257.5	367.5	252.5	239.0	138.5	149.2	143.7	
29	157.6	139.8	125.5	108.6	116.4	1254.0	341.0	225.5	222.5	152.0	142.4	130.7	
30	157.6	142.4	125.5	111.2	146.4	1234.0	315.5	209.4	216.5	145.0		119.0	
31		149.2		111.2	152.0		278.0		215.0	138.5		120.3	
TOTAL	4555.6	4573.4	4313.7	3720.2	3860.0	18491.8	24839.2	6828.7	9952.8	5199.7	4194.1	4919.0	95448.2 CMSDAY
MEAN	151.9	147.5	143.8	120.0	124.5	616.4	801.3	227.6	321.1	167.7	144.6	158.7	260.8 CMS
MAX	188.4	174.4	195.4	141.1	163.2	1268.0	1201.0	358.7	409.5	218.0	163.2	182.8	1268.0 CMS
MIN	116.4	125.5	116.4	106.0	96.4	122.9	278.0	184.2	215.0	126.8	119.0	119.0	96.4 CMS
RUNOFF	393.60	395.14	372.70	321.43	333.50	1597.69	2146.11	590.00	859.92	449.25	362.37	425.00	8246.73 MCM

MOMENTARY PEAK 1275.00 CMS, AT 5.90 M (MSL), AT 12.00 HOURS, ON SEP 26, 1987

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

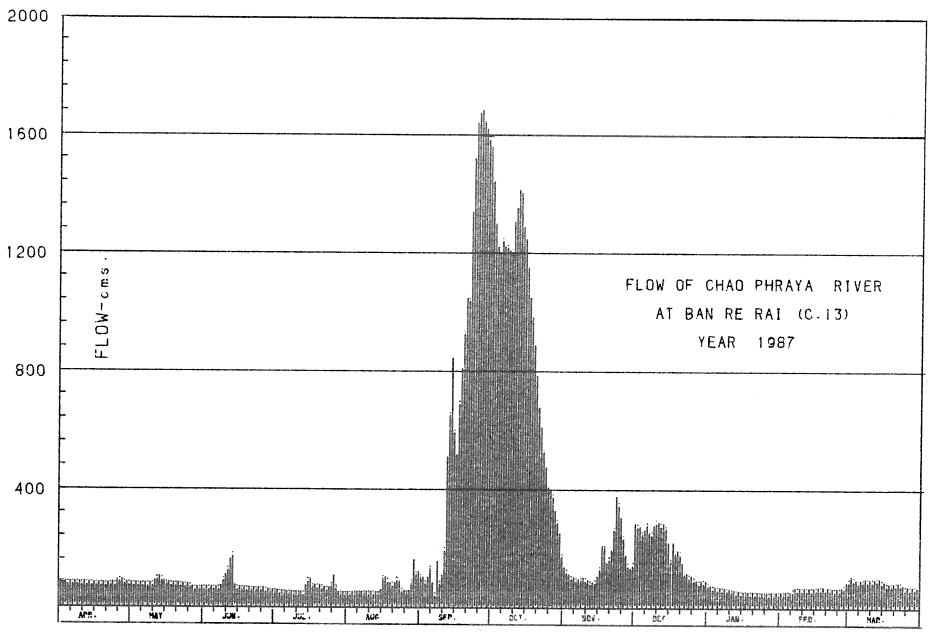
CHAO PHRAYA RIVER AT BAN RE RAI, CHAI NAT (C.13)

LOCATION	LAT. 15°-09'-57" N., LONG. 100°-11'-32" E., ON LEFT BANK AT WAT PHO NGAM ABOUT 1.5 KILOMETERS DOWNSTREAM FROM CHAO PHRAYA DIVERSION DAM, AMPHOE SANPHAYA, CHAINAT
DRAINAGE AREA	120,693 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG THE GAGE LINE.
ELEVATION	+15.634 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1947 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1953-1962, 1965-1968, 1972, 1975-1976, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1953-1962, 1965-1968, 1972, 1975-1976, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY CHAO PHRAYA DIVERSION DAM ABOVE GAGE SITE WHICH DIVERTED FOR IRRIGATION ABOUT 979,000 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 163 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.64	6.60	6.42	6.29	6.20	6.87	12.07	7.10	8.12	6.59	6.22	6.74	
2	6.64	6.59	6.43	6.28	6.20	6.78	11.69	7.03	8.10	6.50	6.23	6.83	
3	6.62	6.59	6.43	6.26	6.20	6.65	11.51	6.89	8.05	6.47	6.24	6.79	
4	6.62	6.58	6.43	6.25	6.22	6.79	11.44	6.83	7.94	6.44	6.24	6.71	
5	6.62	6.58	6.42	6.24	6.22	7.12	11.56	6.79	7.99	6.43	6.23	6.70	
6	6.62	6.58	6.42	6.23	6.21	6.59	11.49	6.75	8.13	6.41	6.34	6.70	
7	6.62	6.58	6.42	6.23	6.21	6.15	11.50	6.72	7.92	6.40	6.41	6.73	
8	6.62	6.58	6.46	6.22	6.22	7.25	11.45	6.77	7.94	6.39	6.41	6.75	
9	6.61	6.58	6.75	6.22	6.22	6.64	11.46	6.78	8.07	6.37	6.40	6.75	
10	6.61	6.59	6.86	6.21	6.22	6.85	11.71	6.76	8.19	6.35	6.40	6.75	
11	6.61	6.67	7.09	6.21	6.22	7.59	11.85	6.70	8.14	6.33	6.40	6.74	
12	6.61	6.80	7.30	6.20	6.22	9.26	11.98	6.65	8.12	6.30	6.40	6.74	
13	6.60	6.82	7.46	6.21	6.21	9.83	11.98	6.62	8.12	6.28	6.39	6.78	
14	6.60	6.77	6.49	6.48	6.20	10.44	11.66	6.68	8.05	6.26	6.39	6.77	
15	6.59	6.66	6.44	6.74	6.30	9.63	11.58	6.82	7.71	6.25	6.39	6.70	
16	6.59	6.62	6.43	6.73	6.82	9.29	11.30	7.11	7.32	6.24	6.41	6.66	
17	6.59	6.61	6.41	6.51	6.80	9.96	11.05	7.63	7.70	6.23	6.43	6.60	
18	6.59	6.60	6.41	6.50	6.74	10.33	10.84	7.63	7.53	6.23	6.45	6.59	
19	6.58	6.59	6.40	6.50	6.58	10.71	10.60	7.22	7.52	6.23	6.44	6.59	
20	6.58	6.58	6.39	6.51	6.61	11.02	10.25	7.38	7.50	6.23	6.43	6.60	
21	6.58	6.58	6.38	6.47	6.60	11.02	9.92	7.54	7.21	6.22	6.41	6.61	
22	6.59	6.57	6.38	6.41	6.77	11.79	9.66	8.03	6.99	6.22	6.40	6.63	
23	6.61	6.56	6.37	6.40	6.64	12.27	9.36	8.66	6.93	6.21	6.38	6.62	
24	6.58	6.55	6.38	6.39	6.35	12.54	9.11	8.55	6.87	6.21	6.37	6.53	
25	6.68	6.54	6.38	6.56	6.27	12.64	8.84	8.24	6.84	6.20	6.38	6.48	
26	6.72	6.51	6.38	6.83	6.24	12.64	8.75	7.86	6.78	6.20	6.38	6.46	
27	6.70	6.42	6.34	6.48	6.26	12.57	8.69	7.42	6.68	6.20	6.39	6.45	
28	6.64	6.41	6.31	6.20	6.69	12.49	8.39	7.20	6.66	6.21	6.50	6.45	
29	6.61	6.41	6.31	6.20	7.30	12.42	8.19	7.06	6.68	6.21	6.63	6.46	
30	6.61	6.41	6.30	6.20	6.96	12.34	7.92	7.23	6.69	6.21		6.42	
31		6.42		6.20	6.97		7.44		6.66	6.22		6.32	
MEAN	6.62	6.58	6.51	6.37	6.45	9.62	10.49	7.22	7.52	6.30	6.38	6.63	
MAX	6.72	6.82	7.46	6.83	7.30	12.64	12.07	8.66	8.19	6.59	6.63	6.83	12.64
MIN	6.58	6.41	6.30	6.20	6.20	6.15	7.44	6.62	6.66	6.20	6.22	6.32	6.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 12.79 M (MSL), AT 6.00 HOURS, ON SEP 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 1.95 M (MSL)
LEFT BANK ELEVATION 17.14 M (MSL)
RIGHT BANK ELEVATION 16.45 M (MSL), DRAINAGE AREA 120693 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	89.0	85.0	70.6	60.2	53.0	112.0	1450.0	137.5	286.2	84.2	54.6	99.0	
2	89.0	84.2	71.4	59.4	53.0	103.0	1299.1	128.8	283.0	77.0	55.4	108.0	
3	87.0	84.2	71.4	57.8	53.0	90.0	1229.8	114.0	275.0	74.6	56.2	104.0	
4	87.0	83.4	71.4	57.0	54.6	104.0	1203.2	108.0	257.4	72.2	56.2	96.0	
5	87.0	83.4	70.6	56.2	54.6	140.0	1248.8	104.0	265.4	71.4	55.4	95.0	
6	87.0	83.4	70.6	55.4	53.8	84.2	1222.2	100.0	287.8	69.8	64.2	95.0	
7	87.0	83.4	70.6	55.4	53.8	49.8	1226.0	97.0	254.2	69.0	69.8	98.0	
8	87.0	83.4	73.8	54.6	54.6	156.3	1207.0	102.0	257.4	68.2	69.8	100.0	
9	86.0	83.4	100.0	54.6	54.6	89.0	1210.8	103.0	278.2	66.6	69.0	100.0	
10	86.0	84.2	111.0	53.8	54.6	110.0	1306.9	101.0	297.4	65.0	69.0	100.0	
11	86.0	92.0	136.3	53.8	54.6	203.5	1362.0	95.0	289.4	63.4	69.0	99.0	
12	86.0	105.0	162.5	53.0	54.6	510.8	1414.0	90.0	286.2	61.0	69.0	99.0	
13	85.0	107.0	184.0	53.8	53.8	659.0	1414.0	87.0	286.2	59.4	68.2	103.0	
14	85.0	102.0	76.2	75.4	53.0	843.8	1287.4	93.0	275.0	57.8	68.2	102.0	
15	84.2	91.0	72.2	99.0	61.0	602.1	1256.4	107.0	221.5	57.0	68.2	95.0	
16	84.2	87.0	71.4	98.0	107.0	517.7	1151.0	138.8	165.0	56.2	69.8	91.0	
17	84.2	86.0	69.8	77.8	105.0	698.0	1058.5	209.5	220.0	55.4	71.4	85.0	
18	84.2	85.0	69.8	77.0	99.0	809.3	982.4	209.5	194.5	55.4	73.0	84.2	
19	83.4	84.2	69.0	77.0	83.4	935.6	896.0	152.5	193.0	55.4	72.2	84.2	
20	83.4	83.4	68.2	77.8	86.0	1047.4	785.0	172.5	190.0	55.4	71.4	85.0	
21	83.4	83.4	67.4	74.6	85.0	1047.4	686.0	196.0	151.3	54.6	69.8	86.0	
22	84.2	82.6	67.4	69.8	102.0	1338.1	610.2	271.8	124.0	54.6	69.0	88.0	
23	86.0	81.8	66.6	69.0	89.0	1530.0	534.4	377.6	118.0	53.8	67.4	87.0	
24	83.4	81.0	67.4	68.2	65.0	1640.8	476.3	356.0	112.0	53.8	66.6	79.4	
25	93.0	80.2	67.4	81.8	58.6	1683.2	416.8	305.4	109.0	53.0	67.4	75.4	
26	97.0	77.8	67.4	108.0	56.2	1683.2	397.0	244.6	103.0	53.0	67.4	73.8	
27	95.0	70.6	64.2	75.4	57.8	1653.4	383.9	178.0	93.0	53.0	68.2	73.0	
28	89.0	69.8	61.8	53.0	94.0	1619.9	329.4	150.0	91.0	53.8	77.0	73.0	
29	86.0	69.8	61.8	53.0	162.5	1591.2	297.4	132.5	93.0	53.8	88.0	73.8	
30	86.0	69.8	61.0	53.0	121.0	1558.4	254.2	153.8	94.0	53.8		70.6	
31		70.6		53.0	122.0		181.0		91.0	54.6		62.6	
TOTAL	2600.6	2598.0	2413.2	2065.8	2310.1	23211.1	28777.1	4815.8	6242.1	1886.2	1960.8	2765.0	81645.8 CMSDAY
MEAN	86.7	83.8	80.4	66.6	74.5	773.7	928.3	160.5	201.4	60.8	67.6	89.2	223.1 CMS
MAX	97.0	107.0	184.0	108.0	162.5	1683.2	1450.0	377.6	297.4	84.2	88.0	108.0	1683.2 CMS
MIN	83.4	69.8	61.0	53.0	53.0	49.8	181.0	87.0	91.0	53.0	54.6	62.6	49.8 CMS
RUNOFF	224.69	224.47	208.50	178.49	199.59	2005.44	2486.34	416.09	539.32	162.97	169.41	238.90	7054.20 MCM

MOMENTARY PEAK 1747.70 CMS, AT 12.79 M (MSL), AT 6.00 HOURS, ON SEP 26, 1987

RUNOFF YIELD 1.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHAO PHRAYA RIVER BASIN

HUAI KHUN KAEO AT BAN SAMO THONG, UTHAI THANI (C.30)

LOCATION — LAT. 15°-21'-04" N., LONG. 99°-32'-22" E., ON RIGHT BANK INFRONT OF THE WAT SAMO THONG SCHOOL, BAN SAMO THONG, TAMBON KHOK KHWAI, AMPHOE BAN RAI, UTHAI THANI.

DRAINAGE AREA — 219 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 60 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +11.75 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 — 1982 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

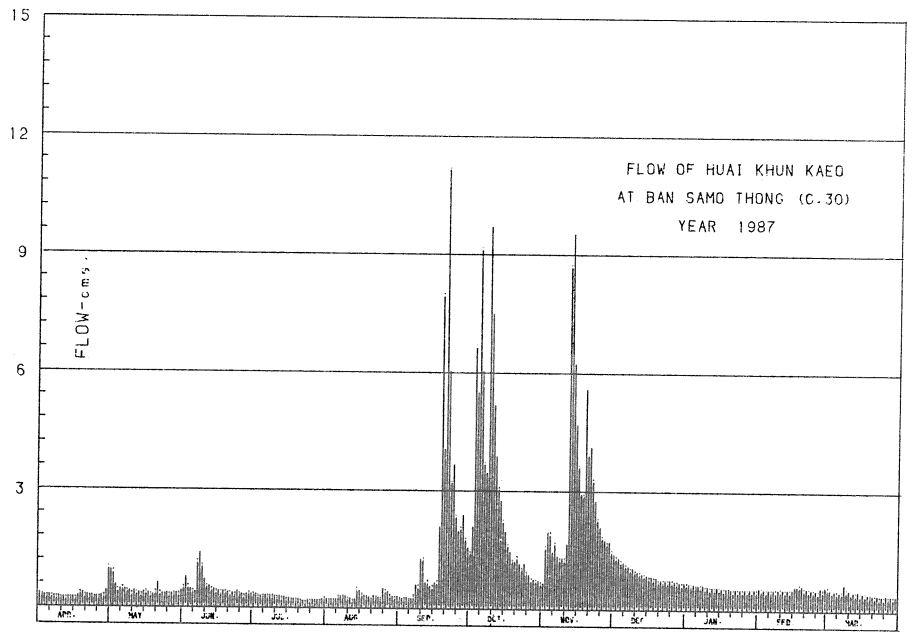
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 117 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.61	0.48	0.41	0.35	0.37	0.71	0.52	0.70	0.53	0.48	0.50	
2	0.39	0.61	0.56	0.40	0.35	0.36	0.83	0.74	0.69	0.52	0.48	0.47	
3	0.38	0.49	0.49	0.39	0.35	0.37	1.44	0.81	0.68	0.52	0.47	0.47	
4	0.38	0.45	0.45	0.38	0.35	0.37	1.31	0.81	0.67	0.52	0.47	0.46	
5	0.38	0.45	0.44	0.39	0.35	0.36	1.68	0.71	0.66	0.51	0.47	0.46	
6	0.38	0.47	0.42	0.39	0.39	0.36	1.37	0.76	0.65	0.51	0.47	0.45	
7	0.37	0.45	0.66	0.39	0.38	0.40	1.09	0.69	0.64	0.51	0.47	0.46	
8	0.37	0.44	0.70	0.39	0.39	0.50	1.05	0.68	0.63	0.51	0.47	0.52	
9	0.37	0.43	0.64	0.39	0.38	0.50	1.73	0.68	0.63	0.50	0.47	0.48	
10	0.36	0.41	0.54	0.38	0.37	0.67	1.52	0.68	0.62	0.50	0.48	0.47	
11	0.36	0.43	0.49	0.38	0.36	0.68	1.28	0.75	0.61	0.49	0.47	0.46	
12	0.36	0.42	0.48	0.38	0.35	0.52	1.11	1.64	0.61	0.49	0.47	0.45	
13	0.36	0.41	0.46	0.37	0.35	0.54	1.00	1.71	0.60	0.49	0.47	0.45	
14	0.36	0.40	0.45	0.37	0.47	0.49	0.94	1.40	0.60	0.49	0.47	0.46	
15	0.36	0.42	0.44	0.36	0.44	0.50	0.86	1.21	0.59	0.49	0.47	0.44	
16	0.36	0.43	0.43	0.36	0.41	0.52	0.81	1.08	0.58	0.48	0.53	0.44	
17	0.37	0.41	0.43	0.35	0.39	0.54	0.75	0.97	0.58	0.48	0.50	0.44	
18	0.42	0.40	0.43	0.35	0.38	0.83	0.71	0.97	0.57	0.48	0.52	0.43	
19	0.41	0.39	0.43	0.35	0.37	1.57	0.67	1.32	0.57	0.48	0.51	0.43	
20	0.39	0.43	0.42	0.35	0.36	1.13	0.66	1.12	0.55	0.47	0.49	0.42	
21	0.39	0.51	0.42	0.34	0.39	1.85	0.69	1.14	0.55	0.47	0.48	0.42	
22	0.38	0.42	0.41	0.33	0.38	1.37	0.65	1.03	0.55	0.47	0.48	0.42	
23	0.38	0.40	0.41	0.33	0.37	1.02	0.63	0.94	0.55	0.47	0.47	0.41	
24	0.37	0.40	0.43	0.34	0.37	1.08	0.65	0.87	0.55	0.47	0.47	0.41	
25	0.37	0.41	0.41	0.34	0.46	0.88	0.61	0.83	0.55	0.47	0.46	0.41	
26	0.37	0.40	0.40	0.34	0.45	0.81	0.59	0.79	0.55	0.47	0.46	0.42	
27	0.38	0.40	0.39	0.34	0.43	0.83	0.56	0.77	0.54	0.47	0.49	0.41	
28	0.39	0.41	0.40	0.34	0.40	0.88	0.55	0.76	0.54	0.47	0.48	0.41	
29	0.43	0.41	0.42	0.34	0.38	0.78	0.55	0.76	0.53	0.47	0.50	0.41	
30	0.63	0.41	0.40	0.35	0.38	0.73	0.54	0.72	0.53	0.47		0.41	
31		0.43		0.37	0.38		0.53		0.53	0.47		0.41	
MEAN	0.39	0.44	0.46	0.36	0.38	0.73	0.91	0.93	0.59	0.49	0.48	0.44	
MAX	0.63	0.61	0.70	0.41	0.47	1.85	1.73	1.71	0.70	0.53	0.53	0.52	1.85
MIN	0.36	0.39	0.39	0.33	0.35	0.36	0.53	0.52	0.53	0.47	0.46	0.41	0.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.48 M (A.D), AT 2.00 HOURS, ON SEP 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)
LEFT BANK ELEVATION 11.16 M (A.D)
RIGHT BANK ELEVATION 11.30 M (A.D), DRAINAGE AREA 219 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.350	0.950	0.550	0.375	0.225	0.275	1.450	0.660	1.400	0.690	0.550	0.600	
2	0.325	0.950	0.780	0.350	0.225	0.250	2.080	1.600	1.350	0.660	0.550	0.525	
3	0.300	0.575	0.575	0.325	0.225	0.275	6.700	1.960	1.300	0.660	0.525	0.525	
4	0.300	0.475	0.475	0.300	0.225	0.275	5.490	1.960	1.250	0.660	0.525	0.500	
5	0.300	0.475	0.450	0.325	0.225	0.250	9.180	1.450	1.200	0.630	0.525	0.500	
6	0.300	0.525	0.400	0.325	0.325	0.250	6.030	1.700	1.150	0.630	0.525	0.475	
7	0.275	0.475	1.200	0.325	0.300	0.350	3.730	1.350	1.100	0.630	0.525	0.500	
8	0.275	0.450	1.400	0.325	0.325	0.600	3.450	1.300	1.050	0.630	0.525	0.660	
9	0.275	0.425	1.100	0.325	0.300	0.600	9.760	1.300	1.050	0.600	0.525	0.550	
10	0.250	0.375	0.720	0.300	0.275	1.250	7.500	1.300	1.000	0.600	0.550	0.525	
11	0.250	0.425	0.575	0.300	0.250	1.300	5.240	1.650	0.950	0.575	0.525	0.500	
12	0.250	0.400	0.550	0.300	0.225	0.660	3.880	8.740	0.950	0.575	0.525	0.475	
13	0.250	0.375	0.500	0.275	0.225	0.720	3.100	9.520	0.900	0.575	0.525	0.475	
14	0.250	0.350	0.475	0.275	0.525	0.575	2.740	6.300	0.900	0.575	0.525	0.500	
15	0.250	0.400	0.450	0.250	0.450	0.600	2.260	4.680	0.870	0.575	0.525	0.450	
16	0.250	0.425	0.425	0.250	0.375	0.660	1.960	3.660	0.840	0.550	0.690	0.450	
17	0.275	0.375	0.425	0.225	0.325	0.720	1.650	2.920	0.840	0.550	0.600	0.450	
18	0.400	0.350	0.425	0.225	0.300	2.080	1.450	2.920	0.810	0.550	0.660	0.425	
19	0.375	0.325	0.425	0.225	0.275	8.000	1.250	5.580	0.810	0.550	0.630	0.425	
20	0.325	0.425	0.400	0.225	0.250	4.040	1.200	3.960	0.750	0.525	0.575	0.400	
21	0.325	0.630	0.400	0.200	0.325	11.200	1.350	4.120	0.750	0.525	0.550	0.400	
22	0.300	0.400	0.375	0.175	0.300	6.030	1.150	3.310	0.750	0.525	0.550	0.400	
23	0.300	0.350	0.375	0.175	0.275	3.240	1.050	2.740	0.750	0.525	0.525	0.375	
24	0.275	0.350	0.425	0.200	0.275	3.660	1.150	2.320	0.750	0.525	0.525	0.375	
25	0.275	0.375	0.375	0.200	0.500	2.380	0.950	2.080	0.750	0.525	0.500	0.375	
26	0.275	0.350	0.350	0.200	0.475	1.960	0.870	1.850	0.750	0.525	0.500	0.400	
27	0.300	0.350	0.325	0.200	0.425	2.080	0.780	1.750	0.720	0.525	0.575	0.375	
28	0.325	0.375	0.350	0.200	0.350	2.380	0.750	1.700	0.720	0.525	0.550	0.375	
29	0.425	0.375	0.400	0.200	0.300	1.800	0.750	1.700	0.690	0.525	0.600	0.375	
30	1.050	0.375	0.350	0.225	0.300	1.550	0.720	1.500	0.690	0.525		0.375	
31		0.425		0.275	0.300		0.690		0.690	0.525		0.375	
TOTAL	9.675	13.880	16.025	8.075	9.675	60.010	90.310	87.580	28.480	17.765	15.980	14.110	371.565 CMSDAY
MEAN	0.323	0.448	0.534	0.260	0.312	2.000	2.913	2.919	0.919	0.573	0.551	0.455	1.015 CMS
MAX	1.050	0.950	1.400	0.375	0.525	11.200	9.760	9.520	1.400	0.690	0.690	0.660	11.200 CMS
MIN	0.250	0.325	0.325	0.175	0.225	0.250	0.690	0.660	0.690	0.525	0.500	0.375	0.175 CMS
RUNOFF	0.836	1.199	1.385	0.698	0.836	5.185	7.803	7.567	2.461	1.535	1.381	1.219	32.103 MCM

MOMENTARY PEAK 19.70 CMS, AT 2.48 M (A.D), AT 2.00 HOURS, ON SEP 19, 1987

RUNOFF YIELD 4.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 89.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SAKAE KRANG RIVER BASIN

UAM 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 — 1,246 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK DOWNSTREAM AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +6.323 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 - 1984

RATED BY FLOAT — -

RATED BY CURRENT METER — 1975 - 1984

STABILITY OF CHANNEL REGIMES — STABLE.

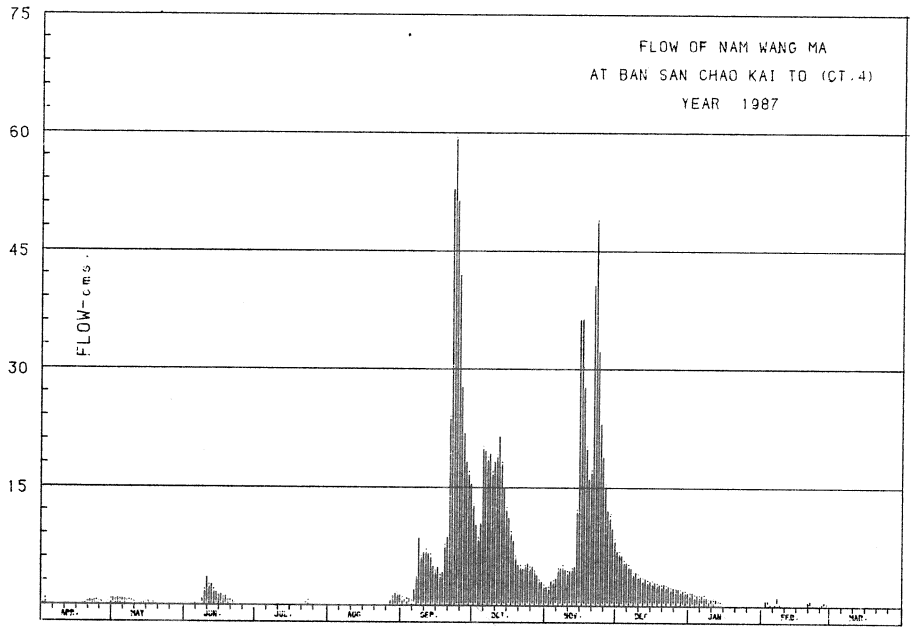
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 447 DISCHARGE MEASUREMENTS MADE IN 1982 - 1984.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	0.63	0.55	0.50	0.36	0.68	1.80	0.88	1.40	0.77	0.50	0.44	
2	0.63	0.61	0.50	0.49	0.35	0.61	1.62	0.88	1.40	0.77	0.63	0.40	
3	0.52	0.63	0.50	0.44	0.42	0.65	1.52	0.98	1.35	0.73	0.60	0.38	
4	0.51	0.62	0.49	0.45	0.41	0.63	1.63	1.00	1.29	0.72	0.53	0.37	
5	0.52	0.62	0.53	0.43	0.42	0.61	2.21	1.03	1.26	0.72	0.46	0.37	
6	0.50	0.61	0.54	0.43	0.42	0.82	2.18	1.19	1.24	0.71	0.58	0.35	
7	0.48	0.59	0.56	0.41	0.41	1.06	2.14	1.19	1.19	0.73	0.67	0.34	
8	0.49	0.60	0.62	0.41	0.41	1.51	2.16	1.23	1.13	0.66	0.60	0.35	
9	0.48	0.59	0.83	0.40	0.42	1.35	2.05	1.17	1.13	0.64	0.48	0.38	
10	0.47	0.56	1.04	0.35	0.39	1.39	2.11	1.15	1.11	0.63	0.50	0.40	
11	0.43	0.53	0.91	0.35	0.37	1.42	2.16	1.15	1.06	0.62	0.52	0.40	
12	0.42	0.53	0.91	0.35	0.40	1.37	2.27	1.19	1.04	0.62	0.53	0.37	
13	0.41	0.54	0.83	0.35	0.41	1.37	2.11	1.21	1.03	0.60	0.53	0.40	
14	0.45	0.54	0.76	0.35	0.42	1.21	1.93	1.75	1.00	0.58	0.50	0.37	
15	0.48	0.56	0.70	0.35	0.39	1.16	1.77	2.89	0.98	0.56	0.50	0.35	
16	0.50	0.56	0.72	0.35	0.36	1.20	1.68	2.91	0.99	0.51	0.49	0.34	
17	0.49	0.56	0.67	0.35	0.35	1.10	1.57	2.56	0.96	0.47	0.49	0.34	
18	0.51	0.55	0.68	0.35	0.35	1.13	1.49	2.21	0.95	0.45	0.47	0.33	
19	0.53	0.52	0.60	0.35	0.36	1.46	1.35	2.00	0.92	0.43	0.52	0.33	
20	0.56	0.50	0.61	0.54	0.37	1.52	1.23	2.06	0.92	0.43	0.63	0.32	
21	0.59	0.50	0.58	0.54	0.41	2.40	1.23	3.05	0.93	0.43	0.60	0.32	
22	0.57	0.52	0.56	0.55	0.39	3.46	1.18	3.33	0.91	0.41	0.58	0.31	
23	0.59	0.50	0.57	0.60	0.39	3.67	1.23	2.74	0.89	0.41	0.55	0.30	
24	0.60	0.50	0.56	0.52	0.42	3.41	1.25	2.37	0.87	0.41	0.54	0.30	
25	0.57	0.43	0.54	0.44	0.40	3.11	1.21	2.14	0.86	0.40	0.56	0.30	
26	0.56	0.44	0.53	0.35	0.44	2.56	1.21	1.96	0.84	0.41	0.53	0.29	
27	0.54	0.46	0.51	0.35	0.59	2.31	1.16	1.74	0.84	0.41	0.57	0.29	
28	0.54	0.48	0.50	0.35	0.69	2.11	1.09	1.70	0.83	0.40	0.55	0.28	
29	0.56	0.51	0.49	0.35	0.75	2.05	1.01	1.59	0.81	0.40	0.53	0.28	
30	0.62	0.53	0.50	0.35	0.77	1.96	0.97	1.51	0.81	0.40		0.27	
31		0.52		0.35	0.71		0.92		0.77	0.40		0.26	
MEAN	0.52	0.54	0.63	0.41	0.44	1.64	1.59	1.76	1.02	0.54	0.54	0.34	
MAX	0.63	0.63	1.04	0.60	0.77	3.67	2.27	3.33	1.40	0.77	0.67	0.44	3.67
MIN	0.41	0.43	0.49	0.35	0.35	0.61	0.92	0.88	0.77	0.40	0.46	0.26	0.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.71 M (A.D), AT 12.00 HOURS, ON SEP 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.28 M (A.D)
LEFT BANK ELEVATION 6.31 M (A.D)
RIGHT BANK ELEVATION 4.95 M (A.D), DRAINAGE AREA 1246 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.78	0.30	0.00	0.00	1.08	12.93	2.36	6.80	1.62	0.00	0.00	
2	0.78	0.66	0.00	0.00	0.00	0.66	10.17	2.36	6.80	1.62	0.78	0.00	
3	0.12	0.78	0.00	0.00	0.00	0.90	8.64	3.06	6.30	1.38	0.60	0.00	
4	0.06	0.72	0.00	0.00	0.00	0.78	10.33	3.20	5.70	1.32	0.18	0.00	
5	0.12	0.72	0.18	0.00	0.00	0.66	20.20	3.41	5.40	1.32	0.00	0.00	
6	0.00	0.66	0.24	0.00	0.00	1.94	19.60	4.71	5.20	1.26	0.48	0.00	
7	0.00	0.54	0.36	0.00	0.00	3.62	18.80	4.71	4.71	1.38	1.02	0.00	
8	0.00	0.60	0.72	0.00	0.00	8.49	19.20	5.10	4.17	0.96	0.60	0.00	
9	0.00	0.54	2.01	0.00	0.00	6.30	17.00	4.53	4.17	0.84	0.00	0.00	
10	0.00	0.36	3.48	0.00	0.00	6.70	18.20	4.35	3.99	0.78	0.00	0.00	
11	0.00	0.18	2.57	0.00	0.00	7.11	19.20	4.35	3.62	0.72	0.12	0.00	
12	0.00	0.18	2.57	0.00	0.00	6.50	21.40	4.71	3.48	0.72	0.18	0.00	
13	0.00	0.24	2.01	0.00	0.00	6.50	18.20	4.90	3.41	0.60	0.18	0.00	
14	0.00	0.24	1.56	0.00	0.00	4.90	14.93	12.17	3.20	0.48	0.00	0.00	
15	0.00	0.36	1.20	0.00	0.00	4.44	12.47	36.23	3.06	0.36	0.00	0.00	
16	0.00	0.36	1.32	0.00	0.00	4.80	11.09	36.77	3.13	0.06	0.00	0.00	
17	0.00	0.36	1.02	0.00	0.00	3.90	9.41	27.64	2.92	0.00	0.00	0.00	
18	0.06	0.30	1.08	0.00	0.00	4.17	8.18	20.20	2.85	0.00	0.00	0.00	
19	0.18	0.12	0.60	0.00	0.00	7.72	6.30	16.00	2.64	0.00	0.12	0.00	
20	0.36	0.00	0.66	0.24	0.00	8.64	5.10	17.20	2.64	0.00	0.78	0.00	
21	0.54	0.00	0.48	0.24	0.00	24.00	5.10	40.60	2.71	0.00	0.60	0.00	
22	0.42	0.12	0.36	0.30	0.00	52.80	4.62	48.90	2.57	0.00	0.48	0.00	
23	0.54	0.00	0.42	0.60	0.00	59.45	5.10	32.18	2.43	0.00	0.30	0.00	
24	0.60	0.00	0.36	0.12	0.00	51.30	5.30	23.40	2.29	0.00	0.24	0.00	
25	0.42	0.00	0.24	0.00	0.00	42.30	4.90	18.80	2.22	0.00	0.36	0.00	
26	0.36	0.00	0.18	0.00	0.00	27.64	4.90	15.39	2.08	0.00	0.18	0.00	
27	0.24	0.00	0.06	0.00	0.54	22.20	4.44	12.01	2.08	0.00	0.42	0.00	
28	0.24	0.00	0.00	0.00	1.14	18.20	3.83	11.40	2.01	0.00	0.30	0.00	
29	0.36	0.06	0.00	0.00	1.50	17.00	3.27	9.71	1.87	0.00	0.18	0.00	
30	0.72	0.18	0.00	0.00	1.62	15.39	2.99	8.49	1.87	0.00		0.00	
31		0.12		0.00	1.26		2.64		1.62	0.00		0.00	
TOTAL	6.36	9.18	23.98	1.50	6.06	420.09	328.44	438.84	107.94	15.42	8.10	0.00	1365.91 CMSDAY
MEAN	0.21	0.30	0.80	0.05	0.20	14.00	10.59	14.63	3.48	0.50	0.28	0.00	3.73 CMS
MAX	0.78	0.78	3.48	0.60	1.62	59.45	21.40	48.90	6.80	1.62	1.02	0.00	59.45 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.66	2.64	2.36	1.62	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.550	0.793	2.072	0.130	0.524	36.296	28.377	37.916	9.326	1.332	0.700	0.000	118.015 MCM

MOMENTARY PEAK 60.85 CMS, AT 3.71 M (A.D), AT 12.00 HOURS, ON SEP 23, 1987
RUNOFF YIELD 3.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 48.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SAKAE KRANG RIVER BASIN

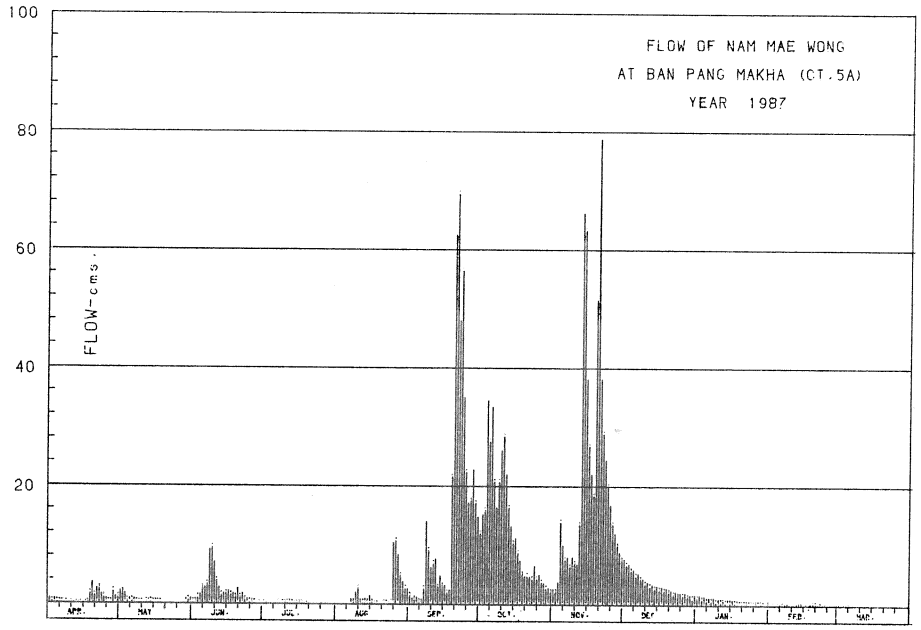
MAE WONG AT BAN PANG MAKHA, KAMPHAENG PHET (CT.5A)

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	938 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE STATION OFFICE.
ELEVATION	+4.60 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	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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 113 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.36	0.27	0.23	0.15	0.35	0.71	0.38	0.59	0.33	0.23	0.17	
2	0.27	0.37	0.28	0.23	0.15	0.30	0.78	0.38	0.57	0.33	0.23	0.17	
3	0.27	0.34	0.33	0.23	0.16	0.32	0.81	0.44	0.56	0.32	0.23	0.17	
4	0.26	0.30	0.33	0.23	0.20	0.31	1.24	0.76	0.54	0.32	0.23	0.16	
5	0.25	0.28	0.41	0.23	0.18	0.29	1.10	0.65	0.53	0.31	0.23	0.18	
6	0.24	0.30	0.39	0.23	0.16	0.28	1.22	0.60	0.51	0.31	0.23	0.16	
7	0.23	0.28	0.44	0.25	0.28	0.41	0.93	0.60	0.51	0.31	0.22	0.16	
8	0.23	0.26	0.63	0.24	0.27	0.75	0.81	0.56	0.49	0.31	0.21	0.16	
9	0.22	0.25	0.65	0.24	0.35	0.64	0.93	0.60	0.47	0.30	0.21	0.16	
10	0.22	0.25	0.57	0.24	0.41	0.54	1.05	0.58	0.45	0.30	0.20	0.17	
11	0.22	0.24	0.47	0.25	0.28	0.59	1.12	0.56	0.44	0.30	0.20	0.16	
12	0.21	0.27	0.39	0.26	0.27	0.46	0.95	0.75	0.43	0.30	0.20	0.15	
13	0.21	0.26	0.35	0.25	0.29	0.42	0.82	1.80	0.42	0.29	0.22	0.15	
14	0.21	0.28	0.34	0.23	0.27	0.49	0.73	1.76	0.41	0.29	0.21	0.14	
15	0.21	0.26	0.36	0.23	0.32	0.43	0.67	1.31	0.41	0.29	0.20	0.14	
16	0.21	0.26	0.36	0.24	0.27	0.41	0.68	1.08	0.40	0.28	0.20	0.13	
17	0.24	0.26	0.35	0.23	0.24	0.37	0.63	0.95	0.40	0.28	0.20	0.12	
18	0.36	0.25	0.34	0.22	0.23	0.37	0.58	0.87	0.39	0.27	0.26	0.11	
19	0.43	0.23	0.33	0.22	0.23	0.95	0.52	1.56	0.39	0.26	0.25	0.11	
20	0.34	0.22	0.38	0.21	0.26	1.74	0.49	2.00	0.38	0.26	0.25	0.11	
21	0.38	0.22	0.33	0.21	0.26	1.86	0.51	1.31	0.37	0.26	0.24	0.11	
22	0.40	0.22	0.34	0.20	0.25	1.50	0.48	1.13	0.36	0.26	0.23	0.10	
23	0.33	0.22	0.31	0.20	0.24	1.65	0.49	1.01	0.36	0.25	0.21	0.10	
24	0.33	0.20	0.28	0.19	0.27	1.16	0.55	0.91	0.35	0.25	0.20	0.09	
25	0.28	0.20	0.28	0.19	0.66	0.97	0.49	0.82	0.35	0.25	0.19	0.09	
26	0.26	0.21	0.27	0.18	0.68	0.83	0.50	0.75	0.35	0.25	0.19	0.09	
27	0.26	0.21	0.26	0.17	0.61	0.85	0.46	0.70	0.35	0.25	0.18	0.09	
28	0.38	0.24	0.24	0.17	0.51	0.97	0.43	0.66	0.34	0.25	0.18	0.09	
29	0.31	0.28	0.24	0.16	0.44	0.84	0.41	0.62	0.33	0.24	0.18	0.09	
30	0.33	0.31	0.23	0.16	0.41	0.77	0.39	0.60	0.33	0.24		0.08	
31		0.29		0.15	0.38		0.38		0.33	0.24		0.08	
MEAN	0.28	0.26	0.36	0.22	0.31	0.73	0.71	0.89	0.42	0.28	0.21	0.13	
MAX	0.43	0.37	0.65	0.26	0.68	1.86	1.24	2.00	0.59	0.33	0.26	0.18	2.00
MIN	0.21	0.20	0.23	0.15	0.15	0.28	0.38	0.38	0.33	0.24	0.18	0.08	0.08

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.27 M (A.D), AT 23.00 HOURS, ON NOV 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.34 M (A.D)
LEFT BANK ELEVATION 4.71 M (A.D)
RIGHT BANK ELEVATION 3.96 M (A.D), DRAINAGE AREA 938 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.86	2.20	0.79	0.51	0.18	2.00	12.40	2.60	7.70	1.60	0.51	0.22	
2	0.79	2.40	0.86	0.51	0.18	1.00	15.20	2.60	7.10	1.60	0.51	0.22	
3	0.79	1.80	1.60	0.51	0.20	1.40	16.40	3.80	6.80	1.40	0.51	0.22	
4	0.72	1.00	1.60	0.51	0.30	1.20	34.48	14.40	6.20	1.40	0.51	0.20	
5	0.65	0.86	3.20	0.51	0.25	0.93	28.00	10.00	5.90	1.20	0.51	0.25	
6	0.58	1.00	2.80	0.51	0.20	0.86	33.44	8.00	5.30	1.20	0.51	0.20	
7	0.51	0.86	3.80	0.65	0.86	3.20	21.20	8.00	5.30	1.20	0.44	0.20	
8	0.51	0.72	9.20	0.58	0.79	14.00	16.40	6.80	4.80	1.20	0.37	0.20	
9	0.44	0.65	10.00	0.58	2.00	9.60	21.20	8.00	4.40	1.00	0.37	0.20	
10	0.44	0.65	7.10	0.58	3.20	6.20	26.00	7.40	4.00	1.00	0.30	0.22	
11	0.44	0.58	4.40	0.65	0.86	7.70	28.88	6.80	3.80	1.00	0.30	0.20	
12	0.37	0.79	2.80	0.72	0.79	4.20	22.00	14.00	3.60	1.00	0.30	0.18	
13	0.37	0.72	2.00	0.65	0.93	3.40	16.80	66.20	3.40	0.93	0.44	0.18	
14	0.37	0.86	1.80	0.51	0.79	4.80	13.20	63.72	3.20	0.93	0.37	0.15	
15	0.37	0.72	2.20	0.51	1.40	3.60	10.80	38.12	3.20	0.93	0.30	0.15	
16	0.37	0.72	2.20	0.58	0.79	3.20	11.20	27.20	3.00	0.86	0.30	0.13	
17	0.58	0.72	2.00	0.51	0.58	2.40	9.20	22.00	3.00	0.86	0.30	0.10	
18	2.20	0.65	1.80	0.44	0.51	2.40	7.40	18.80	2.80	0.79	0.72	0.08	
19	3.60	0.51	1.60	0.44	0.51	22.00	5.60	51.48	2.80	0.72	0.65	0.08	
20	1.80	0.44	2.60	0.37	0.72	62.48	4.80	79.20	2.60	0.72	0.65	0.08	
21	2.60	0.44	1.60	0.37	0.72	69.92	5.30	38.12	2.40	0.72	0.58	0.08	
22	3.00	0.44	1.80	0.30	0.65	48.00	4.60	29.32	2.20	0.72	0.51	0.05	
23	1.60	0.44	1.20	0.30	0.58	56.90	4.80	24.40	2.20	0.65	0.37	0.05	
24	1.60	0.30	0.86	0.28	0.79	30.64	6.50	20.40	2.00	0.65	0.30	0.05	
25	0.86	0.30	0.86	0.28	10.40	22.80	4.80	16.80	2.00	0.65	0.28	0.05	
26	0.72	0.37	0.79	0.25	11.20	17.20	5.00	14.00	2.00	0.65	0.28	0.05	
27	0.72	0.37	0.72	0.22	8.40	18.00	4.20	12.00	2.00	0.65	0.25	0.05	
28	2.60	0.58	0.58	0.22	5.30	22.80	3.60	10.40	1.80	0.65	0.25	0.05	
29	1.20	0.86	0.58	0.20	3.80	17.60	3.20	8.80	1.60	0.58	0.25	0.05	
30	1.60	1.20	0.51	0.20	3.20	14.80	2.80	8.00	1.60	0.58		0.04	
31		0.93		0.18	2.60		2.60		1.60	0.58		0.04	
TOTAL	33.26	25.08	73.85	13.63	63.68	475.23	402.00	641.36	110.30	28.62	11.94	4.02	1882.97 CMSDAY
MEAN	1.11	0.81	2.46	0.44	2.05	15.84	12.97	21.38	3.56	0.92	0.41	0.13	5.14 CMS
MAX	3.60	2.40	10.00	0.72	11.20	69.92	34.48	79.20	7.70	1.60	0.72	0.25	79.20 CMS
MIN	0.37	0.30	0.51	0.18	0.18	0.86	2.60	2.60	1.60	0.58	0.25	0.04	0.04 CMS
RUNOFF	2.874	2.167	6.381	1.178	5.502	41.060	34.733	55.414	9.530	2.473	1.032	0.347	162.689 MCM

MOMENTARY PEAK 97.90 CMS, AT 2.27 M (A.D), AT 23.00 HOURS, ON NOV 19, 1987

RUNOFF YIELD 5.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 104.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — 457 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF GAGE OBSERVER'S HOUSE.

ELEVATION — +4.660 M. (A.D.)

GAGE READING FREQUENCY — 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 1984, 1988 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1975 TO 1984, 1988 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

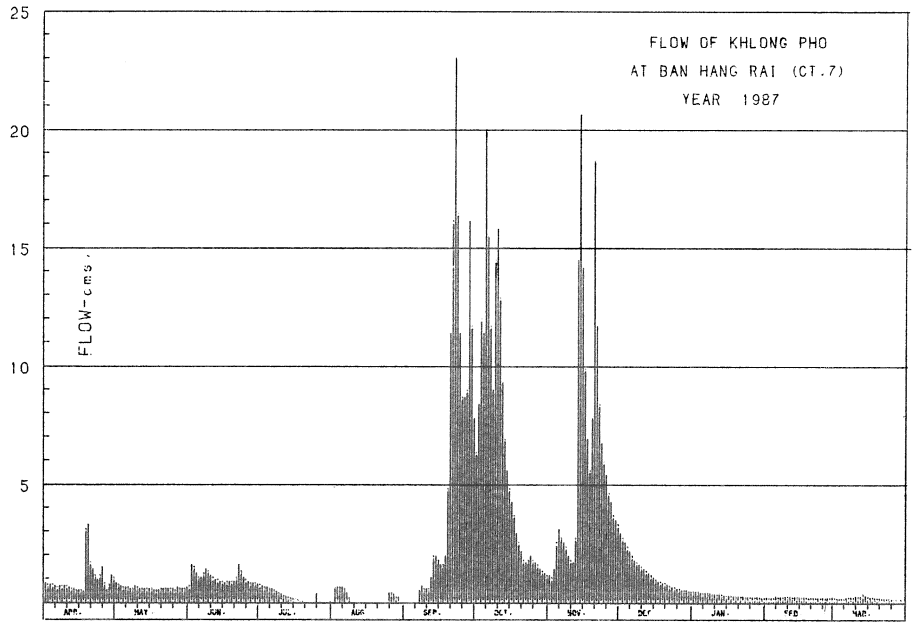
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. FLOW WAS EFFECTED BY THE CONSTRUCTION OF DAM UPSTREAM. STAGE-DISCHARGE RELATION DEFINED BY 45 DISCHARGE MEASUREMENTS MADE DURING 1979-1984.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.69	0.69	0.67	0.68	0.51	0.48	1.04	0.73	0.86	0.63	0.57	0.57	
2	0.68	0.68	0.78	0.67	0.66	0.47	1.13	0.72	0.85	0.63	0.57	0.56	
3	0.68	0.67	0.77	0.66	0.66	0.46	1.25	0.76	0.84	0.63	0.57	0.56	
4	0.68	0.66	0.74	0.66	0.66	0.44	1.23	0.84	0.83	0.62	0.57	0.56	
5	0.67	0.66	0.72	0.65	0.66	0.44	1.50	0.87	0.82	0.62	0.59	0.56	
6	0.66	0.66	0.72	0.65	0.65	0.46	1.36	0.85	0.81	0.62	0.58	0.57	
7	0.67	0.65	0.74	0.64	0.62	0.65	1.24	0.84	0.80	0.62	0.58	0.58	
8	0.67	0.65	0.76	0.63	0.57	0.67	1.15	0.83	0.79	0.62	0.58	0.58	
9	0.67	0.67	0.75	0.62	0.51	0.65	1.33	0.81	0.78	0.61	0.59	0.58	
10	0.67	0.66	0.73	0.61	0.49	0.65	1.37	0.80	0.77	0.61	0.59	0.59	
11	0.66	0.65	0.72	0.60	0.47	0.65	1.28	0.79	0.76	0.61	0.59	0.59	
12	0.65	0.65	0.71	0.59	0.48	0.72	1.16	0.85	0.75	0.61	0.58	0.59	
13	0.65	0.65	0.71	0.58	0.49	0.81	1.07	1.33	0.74	0.61	0.58	0.61	
14	0.64	0.65	0.70	0.57	0.48	0.81	1.00	1.52	0.73	0.60	0.59	0.60	
15	0.64	0.65	0.70	0.56	0.47	0.80	0.96	1.32	0.72	0.60	0.58	0.59	
16	0.64	0.65	0.69	0.55	0.46	0.78	0.93	1.18	0.71	0.60	0.58	0.58	
17	0.63	0.64	0.70	0.54	0.45	0.78	0.90	1.07	0.70	0.60	0.58	0.58	
18	0.87	0.64	0.70	0.53	0.44	0.81	0.86	1.00	0.70	0.59	0.58	0.57	
19	0.88	0.64	0.70	0.52	0.43	0.96	0.84	1.11	0.69	0.59	0.57	0.57	
20	0.79	0.65	0.70	0.50	0.45	1.23	0.82	1.46	0.69	0.59	0.57	0.57	
21	0.76	0.65	0.72	0.49	0.46	1.38	0.80	1.24	0.68	0.59	0.57	0.56	
22	0.73	0.65	0.78	0.48	0.44	1.58	0.79	1.13	0.67	0.59	0.57	0.56	
23	0.71	0.65	0.75	0.47	0.43	1.39	0.80	1.06	0.66	0.58	0.57	0.56	
24	0.73	0.65	0.72	0.46	0.50	1.23	0.81	1.02	0.66	0.58	0.57	0.56	
25	0.77	0.65	0.71	0.62	0.62	1.14	0.80	0.99	0.65	0.58	0.57	0.55	
26	0.69	0.64	0.70	0.52	0.62	1.14	0.79	0.95	0.65	0.58	0.57	0.55	
27	0.64	0.66	0.69	0.49	0.61	1.15	0.78	0.93	0.64	0.58	0.57	0.55	
28	0.68	0.65	0.69	0.48	0.58	1.38	0.76	0.90	0.64	0.58	0.57	0.55	
29	0.73	0.65	0.69	0.49	0.58	1.24	0.75	0.89	0.64	0.58	0.58	0.55	
30	0.72	0.65	0.68	0.50	0.50	1.11	0.74	0.88	0.63	0.57		0.54	
31		0.66		0.52	0.49		0.73		0.63	0.57		0.54	
MEAN	0.70	0.65	0.72	0.57	0.53	0.88	1.00	0.99	0.73	0.60	0.58	0.57	
MAX	0.88	0.69	0.78	0.68	0.66	1.58	1.50	1.52	0.86	0.63	0.59	0.61	1.58
MIN	0.63	0.64	0.67	0.46	0.43	0.44	0.73	0.72	0.63	0.57	0.57	0.54	0.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.60 M (A.D), AT 12.00 HOURS, ON SEP 22, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.34 M (A.D)
LEFT BANK ELEVATION 4.28 M (A.D)
RIGHT BANK ELEVATION 4.44 M (A.D), DRAINAGE AREA 457 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	0.84	0.72	0.78	0.03	0.00	6.36	1.17	2.94	0.48	0.21	0.21	
2	0.78	0.78	1.62	0.72	0.66	0.00	8.40	1.08	2.75	0.48	0.21	0.18	
3	0.78	0.72	1.53	0.66	0.66	0.00	12.00	1.44	2.56	0.48	0.21	0.18	
4	0.78	0.66	1.26	0.66	0.66	0.00	11.40	2.56	2.37	0.42	0.21	0.18	
5	0.72	0.66	1.08	0.60	0.66	0.00	20.00	3.13	2.18	0.42	0.27	0.18	
6	0.66	0.66	1.08	0.60	0.60	0.00	15.48	2.75	1.99	0.42	0.24	0.21	
7	0.72	0.60	1.26	0.54	0.42	0.60	11.70	2.56	1.80	0.42	0.24	0.24	
8	0.72	0.60	1.44	0.48	0.21	0.72	9.00	2.37	1.71	0.42	0.24	0.24	
9	0.72	0.72	1.35	0.42	0.03	0.60	14.49	1.99	1.62	0.36	0.27	0.24	
10	0.72	0.66	1.17	0.36	0.00	0.60	15.81	1.80	1.53	0.36	0.27	0.27	
11	0.66	0.60	1.08	0.30	0.00	0.60	12.90	1.71	1.44	0.36	0.27	0.27	
12	0.60	0.60	0.99	0.27	0.00	1.08	9.30	2.75	1.35	0.36	0.24	0.27	
13	0.60	0.60	0.99	0.24	0.00	1.99	6.93	14.49	1.26	0.36	0.24	0.36	
14	0.54	0.60	0.90	0.21	0.00	1.99	5.60	20.76	1.17	0.30	0.27	0.30	
15	0.54	0.60	0.90	0.18	0.00	1.80	4.84	14.16	1.08	0.30	0.24	0.27	
16	0.54	0.60	0.84	0.15	0.00	1.62	4.27	9.90	0.99	0.30	0.24	0.24	
17	0.48	0.54	0.90	0.12	0.00	1.62	3.70	6.93	0.90	0.30	0.24	0.24	
18	3.13	0.54	0.90	0.09	0.00	1.99	2.94	5.60	0.90	0.27	0.24	0.21	
19	3.32	0.54	0.90	0.06	0.00	4.84	2.56	7.80	0.84	0.27	0.21	0.21	
20	1.71	0.60	0.90	0.00	0.00	11.40	2.18	18.72	0.84	0.27	0.21	0.21	
21	1.44	0.60	1.08	0.00	0.00	16.14	1.80	11.70	0.78	0.27	0.21	0.18	
22	1.17	0.60	1.62	0.00	0.00	23.04	1.71	8.40	0.72	0.27	0.21	0.18	
23	0.99	0.60	1.35	0.00	0.00	16.47	1.80	6.74	0.66	0.24	0.21	0.18	
24	1.17	0.60	1.08	0.00	0.00	11.40	1.99	5.98	0.66	0.24	0.21	0.18	
25	1.53	0.60	0.99	0.42	0.42	8.70	1.80	5.41	0.60	0.24	0.21	0.15	
26	0.84	0.54	0.90	0.06	0.42	8.70	1.71	4.65	0.60	0.24	0.21	0.15	
27	0.54	0.66	0.84	0.00	0.36	9.00	1.62	4.27	0.54	0.24	0.21	0.15	
28	0.78	0.60	0.84	0.00	0.24	16.14	1.44	3.70	0.54	0.24	0.21	0.15	
29	1.17	0.60	0.84	0.00	0.24	11.70	1.35	3.51	0.54	0.24	0.24	0.15	
30	1.08	0.60	0.78	0.00	0.00	7.80	1.26	3.32	0.48	0.21		0.12	
31		0.66		0.06	0.00		1.17		0.48	0.21		0.12	
TOTAL	30.27	19.38	32.13	7.98	5.61	160.54	197.51	181.35	38.82	9.99	6.69	6.42	696.69 CMSDAY
MEAN	1.01	0.63	1.07	0.26	0.18	5.35	6.37	6.05	1.25	0.32	0.23	0.21	1.90 CMS
MAX	3.32	0.84	1.62	0.78	0.66	23.04	20.00	20.76	2.94	0.48	0.27	0.36	23.04 CMS
MIN	0.48	0.54	0.72	0.00	0.00	0.00	1.17	1.08	0.48	0.21	0.21	0.12	0.00 CMS
RUNOFF	2.615	1.674	2.776	0.689	0.485	13.871	17.065	15.669	3.354	0.863	0.578	0.555	60.194 MCM

MOMENTARY PEAK 23.80 CMS, AT 1.60 M (A.D), AT 12.00 HOURS, ON SEP 22, 1987
RUNOFF YIELD 4.17 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 52.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — 522 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +4.611 M. (A.D.)

GAGE READING FREQUENCY — 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.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 159 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

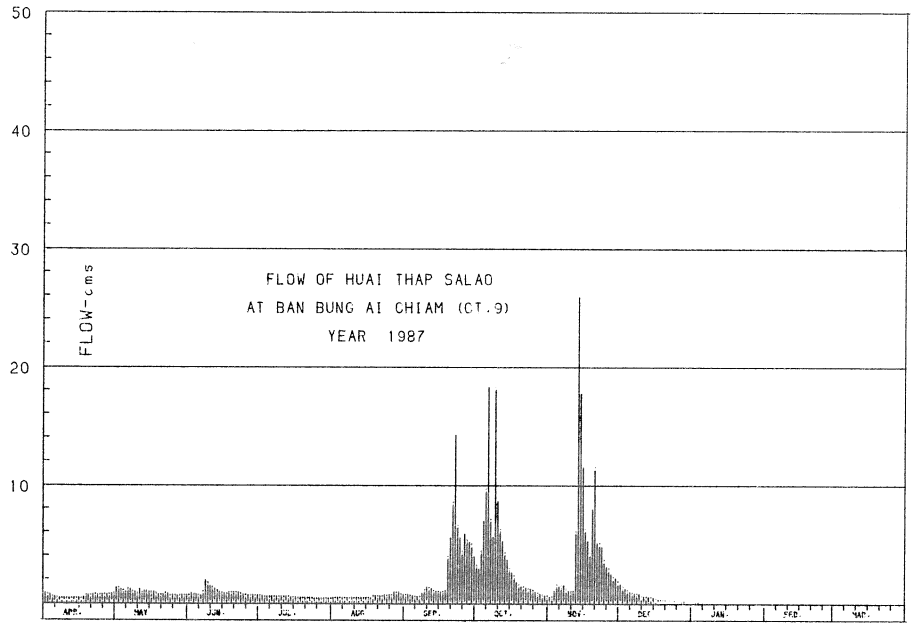
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.78	0.85	0.75	0.75	0.71	0.76	1.06	0.83	0.97	0.72	0.62	0.61	
2	0.77	0.85	0.78	0.74	0.71	0.76	1.03	0.84	0.95	0.72	0.62	0.61	
3	0.76	0.83	0.77	0.73	0.71	0.75	1.15	0.91	0.93	0.71	0.62	0.61	
4	0.73	0.82	0.76	0.73	0.71	0.74	1.30	0.97	0.92	0.71	0.62	0.60	
5	0.72	0.80	0.75	0.73	0.71	0.73	1.45	0.95	0.90	0.70	0.63	0.59	
6	0.71	0.84	0.74	0.73	0.71	0.73	1.76	0.96	0.89	0.70	0.63	0.59	
7	0.70	0.83	0.81	0.73	0.71	0.73	1.34	0.96	0.88	0.69	0.64	0.58	
8	0.70	0.81	0.93	0.73	0.71	0.78	1.26	0.93	0.88	0.68	0.65	0.58	
9	0.70	0.80	0.91	0.73	0.71	0.83	1.76	0.91	0.87	0.68	0.67	0.57	
10	0.70	0.78	0.87	0.73	0.71	0.86	1.41	0.91	0.85	0.67	0.65	0.57	
11	0.70	0.83	0.86	0.73	0.71	0.85	1.30	0.91	0.84	0.67	0.64	0.57	
12	0.70	0.80	0.84	0.73	0.71	0.84	1.24	1.29	0.84	0.66	0.64	0.57	
13	0.70	0.81	0.82	0.73	0.71	0.82	1.18	2.00	0.83	0.66	0.63	0.57	
14	0.70	0.81	0.80	0.72	0.71	0.81	1.14	1.75	0.83	0.66	0.63	0.56	
15	0.70	0.80	0.79	0.72	0.71	0.81	1.09	1.52	0.82	0.66	0.62	0.56	
16	0.70	0.80	0.78	0.72	0.71	0.80	1.06	1.30	0.81	0.66	0.62	0.56	
17	0.71	0.80	0.78	0.71	0.71	0.81	1.04	1.24	0.79	0.66	0.61	0.56	
18	0.75	0.78	0.80	0.71	0.74	0.82	0.99	1.18	0.78	0.66	0.61	0.56	
19	0.75	0.76	0.80	0.71	0.74	1.12	0.97	1.38	0.78	0.66	0.67	0.56	
20	0.75	0.76	0.80	0.71	0.74	1.22	0.95	1.52	0.77	0.66	0.67	0.56	
21	0.76	0.76	0.80	0.71	0.74	1.38	0.95	1.23	0.76	0.66	0.65	0.56	
22	0.77	0.79	0.79	0.71	0.74	1.62	0.94	1.23	0.76	0.66	0.64	0.56	
23	0.75	0.77	0.78	0.71	0.75	1.28	0.93	1.21	0.76	0.65	0.63	0.56	
24	0.76	0.75	0.76	0.70	0.75	1.22	0.93	1.14	0.75	0.65	0.62	0.56	
25	0.76	0.75	0.76	0.70	0.76	1.15	0.92	1.10	0.75	0.65	0.61	0.56	
26	0.76	0.75	0.75	0.70	0.76	1.24	0.90	1.09	0.74	0.65	0.61	0.56	
27	0.76	0.74	0.75	0.70	0.80	1.21	0.89	1.05	0.74	0.64	0.61	0.56	
28	0.77	0.75	0.75	0.70	0.80	1.20	0.87	1.03	0.74	0.64	0.61	0.56	
29	0.77	0.75	0.75	0.70	0.80	1.19	0.86	1.02	0.73	0.63	0.61	0.56	
30	0.78	0.75	0.75	0.70	0.77	1.12	0.85	1.00	0.73	0.63		0.55	
31		0.75		0.70	0.76		0.85		0.72	0.63		0.55	
MEAN	0.74	0.79	0.79	0.72	0.73	0.97	1.11	1.15	0.82	0.67	0.63	0.57	
MAX	0.78	0.85	0.93	0.75	0.80	1.62	1.76	2.00	0.97	0.72	0.67	0.61	2.00
MIN	0.70	0.74	0.74	0.70	0.71	0.73	0.85	0.83	0.72	0.63	0.61	0.55	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.09 M (A.D), AT 9.00 HOURS, ON NOV 13, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.52 M (A.D)

LEFT BANK ELEVATION — 3.50 M (A.D)

RIGHT BANK ELEVATION — 3.88 M (A.D), DRAINAGE AREA — 522 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	1.34	0.72	0.72	0.51	0.77	3.26	0.55	1.62	0.15	0.00	0.00	
2	0.82	1.34	0.88	0.67	0.51	0.77	2.93	0.61	1.44	0.15	0.00	0.00	
3	0.77	1.20	0.82	0.62	0.51	0.72	4.45	1.07	1.26	0.13	0.00	0.00	
4	0.62	1.12	0.77	0.62	0.51	0.67	7.00	1.62	1.16	0.13	0.00	0.00	
5	0.56	0.98	0.72	0.62	0.51	0.62	9.70	1.44	0.98	0.10	0.00	0.00	
6	0.51	1.27	0.67	0.62	0.51	0.62	18.30	1.53	0.92	0.10	0.00	0.00	
7	0.46	1.20	1.05	0.62	0.51	0.62	7.14	1.53	0.86	0.08	0.00	0.00	
8	0.46	1.05	1.97	0.62	0.51	0.88	5.62	1.26	0.86	0.06	0.00	0.00	
9	0.46	0.98	1.79	0.62	0.51	1.20	18.30	1.07	0.80	0.06	0.04	0.00	
10	0.46	0.88	1.48	0.62	0.51	1.41	8.66	1.07	0.68	0.04	0.00	0.00	
11	0.46	1.20	1.41	0.62	0.51	1.34	6.30	1.07	0.61	0.04	0.00	0.00	
12	0.46	0.98	1.27	0.62	0.51	1.27	5.28	6.13	0.61	0.02	0.00	0.00	
13	0.46	1.05	1.12	0.62	0.51	1.12	4.30	25.90	0.55	0.02	0.00	0.00	
14	0.46	1.05	0.98	0.56	0.51	1.05	3.70	18.00	0.55	0.02	0.00	0.00	
15	0.46	0.98	0.93	0.56	0.51	1.05	2.98	11.54	0.49	0.02	0.00	0.00	
16	0.46	0.98	0.88	0.56	0.51	0.98	2.62	6.30	0.43	0.02	0.00	0.00	
17	0.51	0.98	0.88	0.51	0.51	1.05	2.38	5.28	0.34	0.02	0.00	0.00	
18	0.72	0.88	0.98	0.51	0.67	1.12	1.81	4.30	0.32	0.02	0.00	0.00	
19	0.72	0.77	0.98	0.51	0.67	4.00	1.62	7.98	0.32	0.02	0.04	0.00	
20	0.72	0.77	0.98	0.51	0.67	5.56	1.44	11.54	0.29	0.02	0.04	0.00	
21	0.77	0.77	0.98	0.51	0.67	8.60	1.44	5.11	0.26	0.02	0.00	0.00	
22	0.82	0.93	0.93	0.51	0.67	14.26	1.35	5.11	0.26	0.02	0.00	0.00	
23	0.72	0.82	0.88	0.51	0.72	6.64	1.26	4.77	0.26	0.00	0.00	0.00	
24	0.77	0.72	0.77	0.46	0.72	5.56	1.26	3.70	0.24	0.00	0.00	0.00	
25	0.77	0.72	0.77	0.46	0.77	4.45	1.16	3.10	0.24	0.00	0.00	0.00	
26	0.77	0.72	0.72	0.46	0.77	5.92	0.98	2.98	0.21	0.00	0.00	0.00	
27	0.77	0.67	0.72	0.46	0.98	5.38	0.92	2.50	0.21	0.00	0.00	0.00	
28	0.82	0.72	0.72	0.46	0.98	5.20	0.80	2.26	0.21	0.00	0.00	0.00	
29	0.82	0.72	0.72	0.46	0.98	5.05	0.74	2.14	0.18	0.00	0.00	0.00	
30	0.88	0.72	0.72	0.46	0.82	4.00	0.68	1.90	0.18	0.00		0.00	
31		0.72		0.46	0.77		0.68		0.15	0.00		0.00	
TOTAL	19.34	29.23	29.21	17.14	19.53	91.88	129.06	143.36	17.49	1.26	0.12	0.00	497.62 CMSDAY
MEAN	0.64	0.94	0.97	0.55	0.63	3.06	4.16	4.78	0.56	0.04	0.00	0.00	1.36 CMS
MAX	0.88	1.34	1.97	0.72	0.98	14.26	18.30	25.90	1.62	0.15	0.04	0.00	25.90 CMS
MIN	0.46	0.67	0.67	0.46	0.51	0.62	0.68	0.55	0.15	0.00	0.00	0.00	0.00 CMS
RUNOFF	1.671	2.525	2.524	1.481	1.687	7.938	11.151	12.386	1.511	0.109	0.010	0.000	42.994 MCM

MOMENTARY PEAK 29.14 CMS, AT 2.09 M (A.D), AT 9.00 HOURS, ON NOV 13, 1987

RUNOFF YIELD 2.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 55.82 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK 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 SARABURI - 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 — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +6.919 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

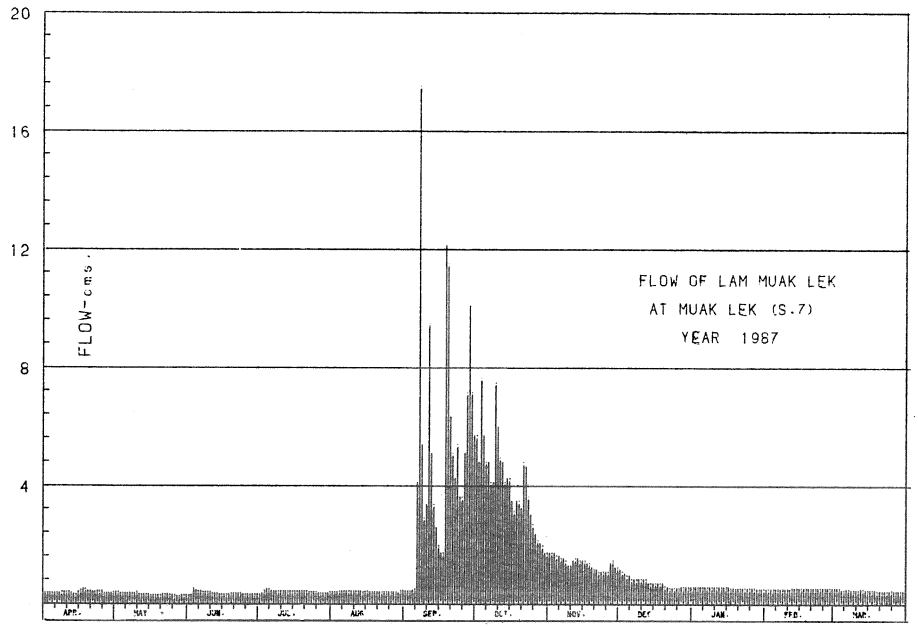
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.33	0.30	0.31	0.33	0.34	0.88	0.55	0.48	0.38	0.36	0.37	
2	0.32	0.33	0.30	0.32	0.33	0.34	0.82	0.55	0.47	0.38	0.36	0.37	
3	0.32	0.32	0.37	0.35	0.33	0.34	1.00	0.55	0.46	0.38	0.36	0.37	
4	0.32	0.32	0.35	0.36	0.34	0.35	0.88	0.54	0.45	0.38	0.36	0.35	
5	0.32	0.32	0.34	0.36	0.34	0.36	0.82	0.54	0.45	0.38	0.36	0.35	
6	0.32	0.32	0.34	0.34	0.34	0.77	0.82	0.53	0.43	0.38	0.36	0.36	
7	0.32	0.32	0.33	0.34	0.34	1.47	0.77	0.53	0.43	0.38	0.36	0.36	
8	0.33	0.32	0.33	0.34	0.34	0.86	0.77	0.52	0.43	0.38	0.36	0.35	
9	0.33	0.32	0.33	0.34	0.34	0.67	0.99	0.50	0.43	0.38	0.36	0.35	
10	0.33	0.33	0.33	0.34	0.34	0.71	0.90	0.50	0.43	0.38	0.36	0.35	
11	0.33	0.31	0.32	0.34	0.34	1.10	0.83	0.52	0.43	0.38	0.36	0.35	
12	0.32	0.31	0.32	0.34	0.34	0.84	0.82	0.53	0.43	0.38	0.37	0.36	
13	0.31	0.31	0.32	0.34	0.34	0.71	0.77	0.53	0.41	0.38	0.37	0.36	
14	0.31	0.31	0.31	0.34	0.33	0.64	0.78	0.52	0.41	0.38	0.37	0.35	
15	0.33	0.31	0.31	0.34	0.34	0.58	0.78	0.52	0.41	0.38	0.37	0.35	
16	0.35	0.30	0.31	0.34	0.34	0.55	0.72	0.52	0.41	0.38	0.37	0.35	
17	0.36	0.30	0.31	0.34	0.33	0.55	0.69	0.51	0.41	0.37	0.37	0.35	
18	0.36	0.30	0.31	0.34	0.33	1.23	0.72	0.51	0.41	0.37	0.37	0.35	
19	0.34	0.30	0.32	0.34	0.33	1.20	0.72	0.49	0.41	0.37	0.37	0.34	
20	0.34	0.30	0.32	0.34	0.33	0.92	0.70	0.48	0.39	0.37	0.37	0.34	
21	0.33	0.31	0.32	0.34	0.33	0.84	0.82	0.48	0.38	0.37	0.37	0.34	
22	0.33	0.31	0.32	0.33	0.33	0.78	0.81	0.47	0.37	0.37	0.37	0.34	
23	0.34	0.31	0.32	0.33	0.33	0.86	0.73	0.47	0.37	0.37	0.37	0.34	
24	0.34	0.31	0.31	0.33	0.33	0.73	0.68	0.47	0.37	0.37	0.37	0.34	
25	0.34	0.30	0.31	0.33	0.33	0.73	0.65	0.47	0.37	0.37	0.37	0.35	
26	0.32	0.30	0.31	0.32	0.33	0.84	0.62	0.47	0.37	0.37	0.37	0.34	
27	0.32	0.29	0.31	0.32	0.33	0.97	0.60	0.51	0.38	0.37	0.37	0.34	
28	0.32	0.29	0.31	0.32	0.33	1.13	0.59	0.52	0.38	0.36	0.37	0.34	
29	0.32	0.30	0.31	0.32	0.32	0.97	0.58	0.49	0.38	0.36	0.37	0.34	
30	0.33	0.30	0.31	0.32	0.35	0.88	0.55	0.49	0.38	0.36		0.34	
31		0.30		0.33	0.35		0.55		0.38	0.36		0.34	
MEAN	0.33	0.31	0.32	0.34	0.33	0.78	0.75	0.51	0.41	0.37	0.37	0.35	
MAX	0.36	0.33	0.37	0.36	0.35	1.47	1.00	0.55	0.48	0.38	0.37	0.37	1.47
MIN	0.31	0.29	0.30	0.31	0.32	0.34	0.55	0.47	0.37	0.36	0.36	0.34	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.04 M (A.D), AT 19.00 HOURS, ON SEP 18, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.64 M (A.D)

LEFT BANK ELEVATION — 6.08 M (A.D)

RIGHT BANK ELEVATION — 6.27 M (A.D), DRAINAGE AREA 177 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.41	0.30	0.33	0.41	0.44	5.70	1.73	1.17	0.58	0.51	0.54	
2	0.37	0.41	0.30	0.37	0.41	0.44	4.80	1.73	1.10	0.58	0.51	0.54	
3	0.37	0.37	0.54	0.47	0.41	0.44	7.65	1.73	1.04	0.58	0.51	0.54	
4	0.37	0.37	0.47	0.51	0.44	0.47	5.70	1.64	0.97	0.58	0.51	0.47	
5	0.37	0.37	0.44	0.51	0.44	0.51	4.80	1.64	0.97	0.58	0.51	0.47	
6	0.37	0.37	0.44	0.44	0.44	4.12	4.80	1.55	0.85	0.58	0.51	0.51	
7	0.37	0.37	0.41	0.44	0.44	17.51	4.12	1.55	0.85	0.58	0.51	0.51	
8	0.41	0.37	0.41	0.44	0.44	5.40	4.12	1.47	0.85	0.58	0.51	0.47	
9	0.41	0.37	0.41	0.44	0.44	2.92	7.49	1.30	0.85	0.58	0.51	0.47	
10	0.41	0.41	0.41	0.44	0.44	3.37	6.00	1.30	0.85	0.58	0.51	0.47	
11	0.41	0.33	0.37	0.44	0.44	9.50	4.95	1.47	0.85	0.58	0.51	0.47	
12	0.37	0.33	0.37	0.44	0.44	5.10	4.80	1.55	0.85	0.58	0.54	0.51	
13	0.33	0.33	0.37	0.44	0.44	3.37	4.12	1.55	0.71	0.58	0.54	0.51	
14	0.33	0.33	0.33	0.44	0.41	2.59	4.25	1.47	0.71	0.58	0.54	0.47	
15	0.41	0.33	0.33	0.44	0.44	1.98	4.25	1.47	0.71	0.58	0.54	0.47	
16	0.47	0.30	0.33	0.44	0.44	1.73	3.50	1.47	0.71	0.58	0.54	0.47	
17	0.51	0.30	0.33	0.44	0.41	1.73	3.14	1.38	0.71	0.54	0.54	0.47	
18	0.51	0.30	0.33	0.44	0.41	12.13	3.50	1.38	0.71	0.54	0.54	0.47	
19	0.44	0.30	0.37	0.44	0.41	11.50	3.50	1.24	0.71	0.54	0.54	0.44	
20	0.44	0.30	0.37	0.44	0.41	6.33	3.25	1.17	0.61	0.54	0.54	0.44	
21	0.41	0.33	0.37	0.44	0.41	5.10	4.80	1.17	0.58	0.54	0.54	0.44	
22	0.41	0.33	0.37	0.41	0.41	4.25	4.65	1.10	0.54	0.54	0.54	0.44	
23	0.44	0.33	0.37	0.41	0.41	5.40	3.63	1.10	0.54	0.54	0.54	0.44	
24	0.44	0.33	0.33	0.41	0.41	3.63	3.03	1.10	0.54	0.54	0.54	0.44	
25	0.44	0.30	0.33	0.41	0.41	3.63	2.70	1.10	0.54	0.54	0.54	0.47	
26	0.37	0.30	0.33	0.37	0.41	5.10	2.37	1.10	0.54	0.54	0.54	0.44	
27	0.37	0.27	0.33	0.37	0.41	7.16	2.15	1.38	0.58	0.54	0.54	0.44	
28	0.37	0.27	0.33	0.37	0.41	10.10	2.06	1.47	0.58	0.51	0.54	0.44	
29	0.37	0.30	0.33	0.37	0.37	7.16	1.98	1.24	0.58	0.51	0.54	0.44	
30	0.41	0.30	0.33	0.37	0.47	5.70	1.73	1.24	0.58	0.51		0.44	
31		0.30		0.41	0.47		1.73		0.58	0.51		0.44	
TOTAL	12.07	10.33	11.05	13.13	13.15	148.81	125.27	41.79	22.96	17.26	15.33	14.58	445.73 CMSDAY
MEAN	0.40	0.33	0.37	0.42	0.42	4.96	4.04	1.39	0.74	0.56	0.53	0.47	1.22 CMS
MAX	0.51	0.41	0.54	0.51	0.47	17.51	7.65	1.73	1.17	0.58	0.54	0.54	17.51 CMS
MIN	0.33	0.27	0.30	0.33	0.37	0.44	1.73	1.10	0.54	0.51	0.51	0.44	0.27 CMS
RUNOFF	1.043	0.893	0.955	1.134	1.136	12.857	10.823	3.611	1.984	1.491	1.325	1.260	38.511 MCM

MOMENTARY PEAK 32.72 CMS, AT 2.04 M (A.D), AT 19.00 HOURS, ON SEP 18, 1987
RUNOFF YIELD 6.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 184.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

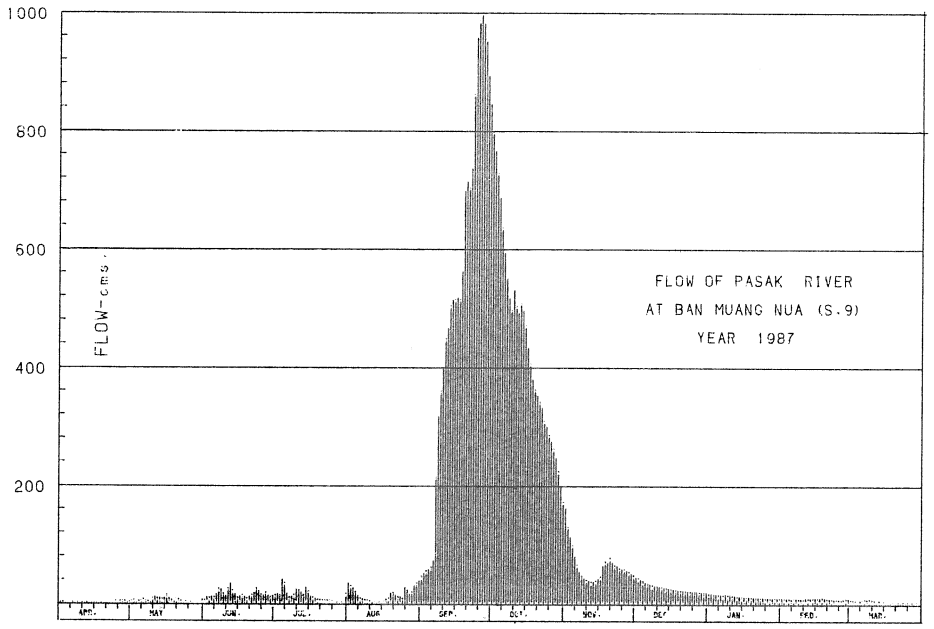
PASAK RIVER AT BAN MUANG NUA, SARABURI (S.9)

LOCATION	LAT. 14°-37'-33" N., LONG. 101°-01'-00" E., ON LEFT BANK AT BAN MUANG NUA RAILWAY BRIDGE, AMPHOE KAENG KHOI, SARABURI.
DRAINAGE AREA	14,374 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+7.492 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK UNDER TAMARIND TREE ALONG THE MEASURING LINE.
ELEVATION	+23.099 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.36	8.44	8.48	8.70	9.13	9.31	15.89	10.60	9.28	8.75	8.55	8.49	
2	8.36	8.48	8.60	8.73	9.06	9.38	15.65	10.28	9.26	8.74	8.54	8.48	
3	8.35	8.44	8.58	8.69	8.99	9.43	15.36	10.08	9.22	8.72	8.54	8.46	
4	8.35	8.42	8.62	9.23	8.83	9.46	15.04	9.93	9.19	8.71	8.54	8.46	
5	8.35	8.44	8.61	9.14	8.66	9.51	14.65	9.72	9.15	8.70	8.53	8.46	
6	8.35	8.51	8.71	8.75	8.57	9.64	14.32	9.56	9.12	8.69	8.54	8.47	
7	8.34	8.46	8.97	8.61	8.53	11.13	14.02	9.41	9.10	8.69	8.54	8.53	
8	8.34	8.42	8.93	8.62	8.50	12.09	13.73	9.32	9.07	8.70	8.53	8.52	
9	8.34	8.41	8.75	8.71	8.48	12.48	13.58	9.26	9.05	8.69	8.53	8.52	
10	8.33	8.56	8.65	8.92	8.45	12.81	13.84	9.22	9.04	8.68	8.52	8.50	
11	8.33	8.60	8.98	8.90	8.42	13.21	13.63	9.20	9.03	8.66	8.56	8.47	
12	8.33	8.56	9.12	8.80	8.40	13.34	13.54	9.17	9.02	8.65	8.55	8.46	
13	8.33	8.56	8.89	8.71	8.41	13.64	13.67	9.17	8.99	8.63	8.55	8.46	
14	8.33	8.52	8.72	9.01	8.40	13.71	13.57	9.19	8.98	8.62	8.56	8.45	
15	8.33	8.55	8.60	8.85	8.41	13.72	13.38	9.25	8.97	8.62	8.56	8.43	
16	8.31	8.70	8.63	8.63	8.44	13.74	13.09	9.30	8.95	8.61	8.56	8.43	
17	8.32	8.55	8.70	8.61	8.51	13.72	12.87	9.54	8.92	8.60	8.56	8.43	
18	8.32	8.48	8.61	8.53	8.57	14.08	12.65	9.63	8.91	8.60	8.58	8.42	
19	8.32	8.45	8.55	8.51	8.76	15.15	12.50	9.60	8.89	8.60	8.56	8.42	
20	8.37	8.53	8.61	8.51	8.80	15.25	12.41	9.70	8.88	8.58	8.54	8.42	
21	8.34	8.51	8.71	8.49	8.67	15.17	12.31	9.61	8.87	8.58	8.53	8.42	
22	8.34	8.45	8.78	8.48	8.63	15.42	12.22	9.55	8.86	8.58	8.52	8.41	
23	8.35	8.46	8.98	8.48	8.61	16.34	12.02	9.54	8.85	8.57	8.51	8.41	
24	8.44	8.41	8.86	8.46	8.56	17.00	11.93	9.49	8.84	8.57	8.50	8.41	
25	8.41	8.41	8.71	8.45	9.00	17.20	11.80	9.47	8.84	8.56	8.49	8.40	
26	8.44	8.39	8.66	8.43	8.89	17.26	11.70	9.47	8.84	8.56	8.48	8.39	
27	8.45	8.37	8.81	8.40	8.71	17.19	11.59	9.44	8.82	8.55	8.51	8.39	
28	8.44	8.37	8.65	8.39	8.83	16.95	11.45	9.41	8.81	8.55	8.54	8.39	
29	8.40	8.36	8.62	8.39	9.05	16.58	11.23	9.37	8.80	8.57	8.53	8.39	
30	8.40	8.38	8.66	8.41	9.14	16.22	10.98	9.33	8.80	8.55		8.39	
31		8.49		8.76	9.20		10.71		8.79	8.55		8.38	
MEAN	8.36	8.47	8.73	8.65	8.70	13.67	13.08	9.53	8.97	8.63	8.54	8.44	
MAX	8.45	8.70	9.12	9.23	9.20	17.26	15.89	10.60	9.28	8.75	8.58	8.53	17.26
MIN	8.31	8.36	8.48	8.39	8.40	9.31	10.71	9.17	8.79	8.55	8.48	8.38	8.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 17.29 M (MSL), AT 18.00 HOURS, ON SEP 26, 1987
ZERO GAGE AT BOTTOM ELEVATION 7.49 M (MSL), RIVER BED 5.92 M (MSL)
LEFT BANK ELEVATION 21.92 M (MSL)
RIGHT BANK ELEVATION 21.92 M (MSL), DRAINAGE AREA 14374 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.2	5.6	7.2	16.0	35.8	47.7	798.6	162.0	45.6	18.0	10.0	7.6	
2	3.2	7.2	12.0	17.2	31.6	52.6	766.5	131.2	44.2	17.6	9.6	7.2	
3	3.0	5.6	11.2	15.6	27.6	56.4	728.8	113.2	41.4	16.8	9.6	6.4	
4	3.0	4.8	12.8	42.1	21.2	58.8	687.2	99.7	39.4	16.4	9.6	6.4	
5	3.0	5.6	12.4	36.4	14.4	62.8	636.5	80.8	37.0	16.0	9.2	6.4	
6	3.0	8.4	16.4	18.0	10.8	73.6	593.6	66.8	35.2	15.6	9.6	6.8	
7	2.8	6.4	26.8	12.4	9.2	215.0	554.6	54.8	34.0	15.6	9.6	9.2	
8	2.8	4.8	25.2	12.8	8.0	317.9	516.9	48.4	32.2	16.0	9.2	8.8	
9	2.8	4.4	18.0	16.4	7.2	360.8	497.4	44.2	31.0	15.6	9.2	8.8	
10	2.6	10.4	14.0	24.8	6.0	399.2	531.2	41.4	30.4	15.2	8.8	8.0	
11	2.6	12.0	27.2	24.0	4.8	449.3	503.9	40.0	29.8	14.4	10.4	6.8	
12	2.6	10.4	35.2	20.0	4.0	466.2	492.2	38.2	29.2	14.0	10.0	6.4	
13	2.6	10.4	23.6	16.4	4.4	505.2	509.1	38.2	27.6	13.2	10.0	6.4	
14	2.6	8.8	16.8	28.6	4.0	514.3	496.1	39.4	27.2	12.8	10.4	6.0	
15	2.6	10.0	12.0	22.0	4.4	515.6	471.4	43.5	26.8	12.8	10.4	5.2	
16	2.2	16.0	13.2	13.2	5.6	518.2	433.7	47.0	26.0	12.4	10.4	5.2	
17	2.4	10.0	16.0	12.4	8.4	515.6	406.4	65.2	24.8	12.0	10.4	5.2	
18	2.4	7.2	12.4	9.2	10.8	562.4	380.0	72.7	24.4	12.0	11.2	4.8	
19	2.4	6.0	10.0	8.4	18.4	701.5	363.0	70.0	23.6	12.0	10.4	4.8	
20	3.4	9.2	12.4	8.4	20.0	714.5	353.1	79.0	23.2	11.2	9.6	4.8	
21	2.8	8.4	16.4	7.6	14.8	704.1	342.1	70.9	22.8	11.2	9.2	4.8	
22	2.8	6.0	19.2	7.2	13.2	736.6	332.2	66.0	22.4	11.2	8.8	4.4	
23	3.0	6.4	27.2	7.2	12.4	862.3	310.2	65.2	22.0	10.8	8.4	4.4	
24	5.6	4.4	22.4	6.4	10.4	958.0	300.3	61.2	21.6	10.8	8.0	4.4	
25	4.4	4.4	16.4	6.0	28.0	987.0	286.0	59.6	21.6	10.4	7.6	4.0	
26	5.6	3.8	14.4	5.2	23.6	995.7	275.0	59.6	21.6	10.4	7.2	3.8	
27	6.0	3.4	20.4	4.0	16.4	985.6	262.9	57.2	20.8	10.0	8.4	3.8	
28	5.6	3.4	14.0	3.8	21.2	950.8	247.5	54.8	20.4	10.0	9.6	3.8	
29	4.0	3.2	12.8	3.8	31.0	897.1	225.0	51.9	20.0	10.8	9.2	3.8	
30	4.0	3.6	14.4	4.4	36.4	844.9	200.0	49.1	20.0	10.0		3.8	
31		7.6		18.4	40.0		173.0		19.6	10.0		3.6	
TOTAL	99.0	217.8	512.4	448.3	504.0	16029.7	13674.4	1971.2	865.8	405.2	274.0	175.8	35177.6 CMSDAY
MEAN	3.3	7.0	17.1	14.5	16.3	534.3	441.1	65.7	27.9	13.1	9.4	5.7	96.1 CMS
MAX	6.0	16.0	35.2	42.1	40.0	995.7	798.6	162.0	45.6	18.0	11.2	9.2	995.7 CMS
MIN	2.2	3.2	7.2	3.8	4.0	47.7	173.0	38.2	19.6	10.0	7.2	3.6	2.2 CMS
RUNOFF	8.55	18.82	44.27	38.73	43.55	1384.97	1181.47	170.31	74.81	35.01	23.67	15.19	3039.34 MCM

MOMENTARY PEAK 1000.05 CMS, AT 17.29 M (MSL), AT 18.00 HOURS, ON SEP 26, 1987
RUNOFF YIELD 6.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 69.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

HUAI NAM PHUNG AT BAN HIN HAO, PHETCHABUN (S.10)

LOCATION — LAT. 16°-56'-50" N., LONG. 101°-13'-10" E., ON RIGHT BANK ABOUT 70 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE LOM KAO, PHETCHABUN.

DRAINAGE AREA — 268 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +8.823 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967, 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967, 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

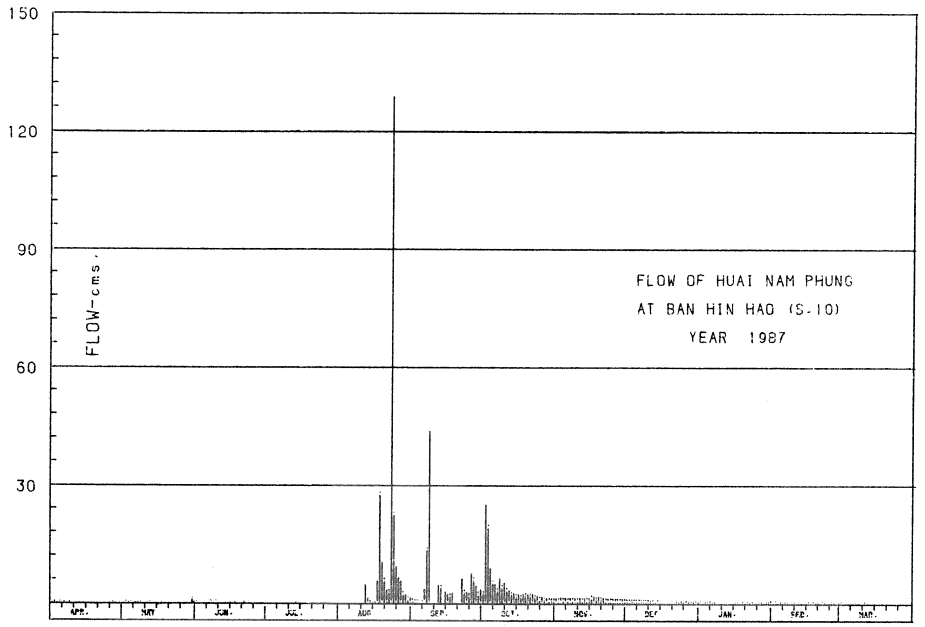
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. NO RECORDS ON SEPT.9-11,SEPT.14,SEPT.19-21,1987. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.30	0.25	0.10	0.00	0.48	0.84	0.51	0.47	0.35	0.34	0.30	
2	0.25	0.27	0.24	0.09	0.00	0.43	2.38	0.51	0.46	0.32	0.34	0.30	
3	0.23	0.26	0.23	0.07	0.00	0.41	2.12	0.56	0.46	0.30	0.31	0.30	
4	0.23	0.25	0.16	0.10	0.00	0.37	1.45	0.54	0.45	0.33	0.30	0.30	
5	0.24	0.25	0.33	0.11	0.00	0.37	1.17	0.54	0.45	0.33	0.30	0.26	
6	0.19	0.43	0.38	0.09	0.00	0.91	1.08	0.53	0.45	0.32	0.30	0.30	
7	0.20	0.29	0.34	0.10	0.00	1.81	0.95	0.53	0.44	0.30	0.30	0.27	
8	0.21	0.24	0.38	0.09	0.00	3.12	1.23	0.53	0.43	0.28	0.28	0.29	
9	0.20	0.23	0.33	0.09	0.00	*******	1.06	0.53	0.43	0.26	0.33	0.32	
10	0.20	0.23	0.23	0.10	0.00	*******	1.12	0.52	0.42	0.22	0.29	0.35	
11	0.18	0.22	0.21	0.11	0.00	*******	0.96	0.54	0.42	0.21	0.29	0.30	
12	0.18	0.25	0.21	0.24	1.07	1.05	0.87	0.52	0.42	0.24	0.37	0.30	
13	0.11	0.25	0.19	0.15	0.52	1.05	0.81	0.52	0.41	0.20	0.30	0.31	
14	0.17	0.27	0.21	0.13	0.34	*******	0.77	0.54	0.41	0.24	0.29	0.30	
15	0.17	0.29	0.18	0.12	0.30	0.87	0.73	0.54	0.40	0.21	0.35	0.28	
16	0.17	0.28	0.24	0.09	0.29	0.71	0.71	0.66	0.40	0.28	0.33	0.25	
17	0.15	0.23	0.20	0.05	1.16	0.75	0.67	0.60	0.40	0.28	0.32	0.25	
18	0.16	0.19	0.18	0.00	2.52	0.79	0.73	0.58	0.40	0.30	0.29	0.24	
19	0.19	0.19	0.15	0.00	1.56	*******	0.77	0.58	0.40	0.32	0.29	0.24	
20	0.23	0.30	0.20	0.00	1.23	*******	0.70	0.57	0.39	0.35	0.32	0.22	
21	0.23	0.25	0.23	0.00	0.89	*******	0.75	0.54	0.38	0.30	0.38	0.22	
22	0.22	0.22	0.23	0.00	0.91	1.22	0.73	0.51	0.38	0.29	0.37	0.22	
23	0.19	0.20	0.29	0.00	5.30	0.90	0.67	0.51	0.38	0.30	0.38	0.22	
24	0.19	0.23	0.24	0.00	2.28	0.81	0.63	0.51	0.38	0.31	0.38	0.22	
25	0.23	0.20	0.17	0.00	1.48	0.77	0.59	0.50	0.36	0.29	0.30	0.22	
26	0.27	0.19	0.15	0.00	1.33	1.34	0.58	0.49	0.36	0.30	0.32	0.22	
27	0.25	0.18	0.14	0.00	1.16	1.25	0.55	0.49	0.34	0.30	0.31	0.18	
28	0.27	0.18	0.14	0.00	0.83	1.04	0.53	0.49	0.32	0.31	0.34	0.17	
29	0.29	0.15	0.13	0.00	0.68	0.83	0.53	0.48	0.33	0.30	0.32	0.12	
30	0.30	0.54	0.10	0.00	0.59	0.89	0.52	0.48	0.33	0.32		0.11	
31		0.31		0.00	0.53		0.51		0.32	0.34		0.05	
MEAN	0.21	0.25	0.22	0.06	0.81	*******	0.89	0.53	0.40	0.29	0.32	0.25	
MAX	0.30	0.54	0.38	0.24	5.30	3.12	2.38	0.66	0.47	0.35	0.38	0.35	5.30
MIN	0.11	0.15	0.10	0.00	0.00	*******	0.51	0.48	0.32	0.20	0.28	0.05	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.20 M (A.D), AT 8.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.14 M (A.D)
LEFT BANK ELEVATION 9.28 M (A.D)
RIGHT BANK ELEVATION 9.11 M (A.D), DRAINAGE AREA 268 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.60	0.50	0.20	0.00	1.22	3.08	1.35	1.18	0.75	0.72	0.60	
2	0.50	0.54	0.48	0.18	0.00	1.02	25.10	1.35	1.14	0.66	0.72	0.60	
3	0.46	0.52	0.46	0.14	0.00	0.94	19.98	1.60	1.14	0.60	0.63	0.60	
4	0.46	0.50	0.32	0.20	0.00	0.81	8.95	1.50	1.10	0.69	0.60	0.60	
5	0.48	0.50	0.69	0.22	0.00	0.81	5.80	1.50	1.10	0.69	0.60	0.52	
6	0.38	1.02	0.84	0.18	0.00	3.57	4.92	1.45	1.10	0.66	0.60	0.60	
7	0.40	0.58	0.72	0.20	0.00	14.18	3.85	1.45	1.06	0.60	0.60	0.54	
8	0.42	0.48	0.84	0.18	0.00	43.76	6.43	1.45	1.02	0.56	0.56	0.58	
9	0.40	0.46	0.69	0.18	0.00	*******	4.74	1.45	1.02	0.52	0.69	0.66	
10	0.40	0.46	0.46	0.20	0.00	*******	5.30	1.40	0.98	0.44	0.58	0.75	
11	0.36	0.44	0.42	0.22	0.00	*******	3.92	1.50	0.98	0.42	0.58	0.60	
12	0.36	0.50	0.42	0.48	4.83	4.65	3.29	1.40	0.98	0.48	0.81	0.60	
13	0.22	0.50	0.38	0.30	1.40	4.65	2.87	1.40	0.94	0.40	0.60	0.63	
14	0.34	0.54	0.42	0.26	0.72	*******	2.65	1.50	0.94	0.48	0.58	0.60	
15	0.34	0.58	0.36	0.24	0.60	3.29	2.45	1.50	0.90	0.42	0.75	0.56	
16	0.34	0.56	0.48	0.18	0.58	2.35	2.35	2.10	0.90	0.56	0.69	0.50	
17	0.30	0.46	0.40	0.10	5.70	2.55	2.15	1.80	0.90	0.56	0.66	0.50	
18	0.32	0.38	0.36	0.00	28.28	2.75	2.45	1.70	0.90	0.60	0.58	0.48	
19	0.38	0.38	0.30	0.00	10.44	*******	2.65	1.70	0.90	0.66	0.58	0.48	
20	0.46	0.60	0.40	0.00	6.43	*******	2.30	1.65	0.87	0.75	0.66	0.44	
21	0.46	0.50	0.46	0.00	3.43	*******	2.55	1.50	0.84	0.60	0.84	0.44	
22	0.44	0.44	0.46	0.00	3.57	6.32	2.45	1.35	0.84	0.58	0.81	0.44	
23	0.38	0.40	0.58	0.00	128.60	3.50	2.15	1.35	0.84	0.60	0.84	0.44	
24	0.38	0.46	0.48	0.00	23.10	2.87	1.95	1.35	0.84	0.63	0.84	0.44	
25	0.46	0.40	0.34	0.00	9.34	2.65	1.75	1.30	0.78	0.58	0.60	0.44	
26	0.54	0.38	0.30	0.00	7.53	7.64	1.70	1.26	0.78	0.60	0.66	0.44	
27	0.50	0.36	0.28	0.00	5.70	6.65	1.55	1.26	0.72	0.60	0.63	0.36	
28	0.54	0.36	0.28	0.00	3.01	4.56	1.45	1.26	0.66	0.63	0.72	0.34	
29	0.58	0.30	0.26	0.00	2.20	3.01	1.45	1.22	0.69	0.60	0.66	0.24	
30	0.60	1.50	0.20	0.00	1.75	3.43	1.40	1.22	0.69	0.66		0.22	
31		0.63		0.00	1.45		1.35		0.66	0.72		0.10	
TOTAL	12.56	16.33	13.58	3.66	248.66	*******	134.98	43.82	28.39	18.30	19.39	15.34	******** CMSDAY
MEAN	0.42	0.53	0.45	0.12	8.02	*******	4.35	1.46	0.92	0.59	0.67	0.49	******** CMS
MAX	0.60	1.50	0.84	0.48	128.60	43.76	25.10	2.10	1.18	0.75	0.84	0.75	128.60 CMS
MIN	0.22	0.30	0.20	0.00	0.00	*******	1.35	1.22	0.66	0.40	0.56	0.10	******** CMS
RUNOFF	1.085	1.411	1.173	0.316	21.484	*******	11.662	3.786	2.453	1.581	1.675	1.325	******** MCM

MOMENTARY PEAK 400.00 CMS, AT 9.20 M (A.D), AT 8.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1492.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK 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 HONG PHAI, PHETCHABUN.

DRAINAGE AREA — 471 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — 0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ALONG THE GAGE LINE.

ELEVATION — +5.792 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1978 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

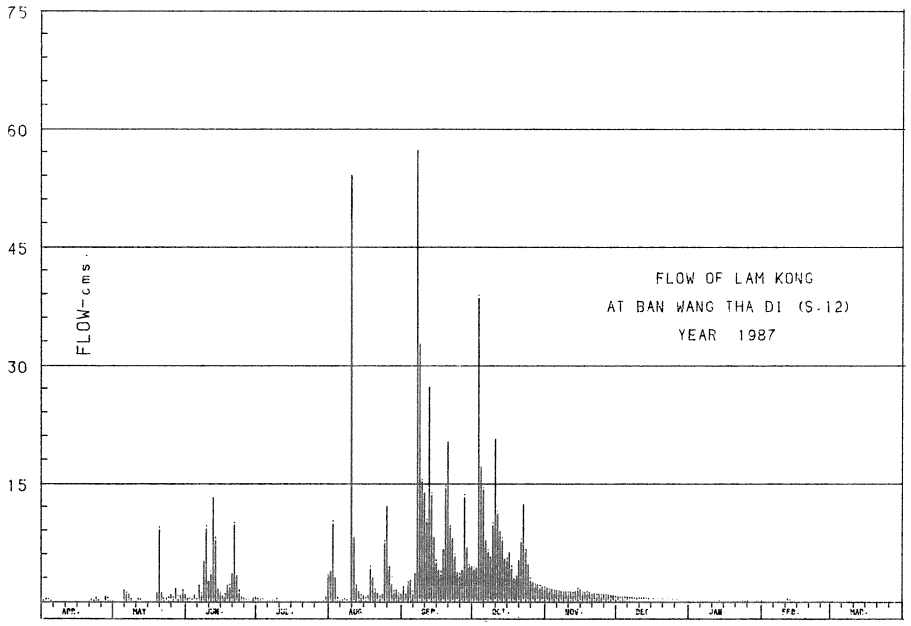
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 142 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.46	0.57	0.59	1.03	0.84	1.07	0.82	0.63	0.55	0.48	0.45	
2	0.56	0.46	0.60	0.58	1.41	0.70	1.06	0.81	0.63	0.55	0.48	0.45	
3	0.57	0.46	0.56	0.56	0.96	0.91	2.39	0.80	0.63	0.55	0.48	0.44	
4	0.49	0.46	0.67	0.51	0.62	0.93	1.71	0.79	0.63	0.54	0.48	0.44	
5	0.47	0.79	0.58	0.51	0.56	0.77	1.61	0.78	0.63	0.54	0.47	0.44	
6	0.47	0.74	0.86	0.52	0.53	1.01	1.28	0.77	0.62	0.54	0.47	0.44	
7	0.45	0.69	0.73	0.52	0.58	2.82	1.22	0.76	0.62	0.53	0.47	0.44	
8	0.44	0.57	1.12	0.56	0.53	2.22	1.16	0.75	0.61	0.53	0.47	0.44	
9	0.44	0.50	1.38	0.59	0.51	1.65	1.40	0.75	0.60	0.52	0.47	0.44	
10	0.44	0.49	0.91	0.53	2.75	1.58	1.84	0.75	0.61	0.52	0.47	0.44	
11	0.44	0.59	1.03	0.52	1.30	1.42	1.47	0.75	0.61	0.52	0.58	0.43	
12	0.44	0.56	1.55	0.52	0.86	2.06	1.34	0.74	0.61	0.52	0.54	0.43	
13	0.44	0.51	1.30	0.49	0.75	1.58	1.30	0.75	0.61	0.52	0.51	0.44	
14	0.44	0.50	0.80	0.49	0.69	1.30	1.14	0.83	0.59	0.52	0.50	0.43	
15	0.44	0.50	0.74	0.48	0.66	1.13	1.15	0.80	0.58	0.52	0.49	0.42	
16	0.45	0.50	0.65	0.48	0.62	1.04	1.20	0.75	0.58	0.51	0.48	0.41	
17	0.46	0.49	0.71	0.48	0.66	1.03	1.08	0.74	0.58	0.51	0.48	0.41	
18	0.45	0.46	0.86	0.47	1.08	1.22	0.95	0.76	0.58	0.50	0.48	0.40	
19	0.48	0.72	0.87	0.46	0.96	1.62	0.98	0.73	0.58	0.50	0.47	0.41	
20	0.47	1.37	1.01	0.45	0.81	1.83	1.13	0.70	0.57	0.50	0.47	0.41	
21	0.55	0.73	1.40	0.45	0.71	1.38	1.29	0.71	0.57	0.50	0.46	0.40	
22	0.51	0.60	0.99	0.44	0.66	1.29	1.51	0.71	0.57	0.50	0.46	0.40	
23	0.62	0.59	0.79	0.43	0.69	1.19	1.22	0.70	0.57	0.50	0.45	0.40	
24	0.53	0.62	0.63	0.43	1.28	1.02	1.09	0.70	0.57	0.50	0.45	0.40	
25	0.49	0.68	0.60	0.45	1.50	1.01	0.96	0.70	0.56	0.50	0.45	0.40	
26	0.48	0.63	0.57	0.47	1.07	1.04	0.90	0.70	0.56	0.50	0.47	0.40	
27	0.64	0.81	0.54	0.48	0.87	1.57	0.88	0.69	0.56	0.50	0.47	0.40	
28	0.62	0.67	0.53	0.48	0.78	1.23	0.87	0.67	0.56	0.49	0.47	0.40	
29	0.54	0.66	0.68	0.53	0.79	1.09	0.86	0.66	0.56	0.49	0.46	0.40	
30	0.50	0.79	0.62	0.63	0.73	1.07	0.84	0.65	0.56	0.49		0.40	
31		0.69		1.00	0.70		0.84		0.56	0.48		0.40	
MEAN	0.49	0.62	0.83	0.52	0.89	1.32	1.22	0.74	0.59	0.51	0.48	0.42	
MAX	0.64	1.37	1.55	1.00	2.75	2.82	2.39	0.83	0.63	0.55	0.58	0.45	2.82
MIN	0.44	0.46	0.53	0.43	0.51	0.70	0.84	0.65	0.56	0.48	0.45	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.59 M (A.D), AT 10.00 HOURS, ON AUG 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)
LEFT BANK ELEVATION 8.16 M (A.D)
RIGHT BANK ELEVATION 8.55 M (A.D), DRAINAGE AREA 471 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.12	0.41	0.47	3.92	1.96	4.48	1.78	0.65	0.35	0.16	0.10	
2	0.38	0.12	0.50	0.44	10.31	1.00	4.34	1.69	0.65	0.35	0.16	0.10	
3	0.41	0.12	0.38	0.38	3.10	2.60	38.93	1.60	0.65	0.35	0.16	0.08	
4	0.18	0.12	0.85	0.23	0.60	2.80	17.16	1.54	0.65	0.32	0.16	0.08	
5	0.14	1.54	0.44	0.23	0.38	1.42	14.56	1.48	0.65	0.32	0.14	0.08	
6	0.14	1.24	2.14	0.26	0.29	3.64	7.82	1.42	0.60	0.32	0.14	0.08	
7	0.10	0.95	1.18	0.26	0.44	57.70	6.68	1.36	0.60	0.29	0.14	0.08	
8	0.08	0.41	5.18	0.38	0.29	32.72	5.74	1.30	0.55	0.29	0.14	0.08	
9	0.08	0.20	9.72	0.47	0.23	15.60	10.10	1.30	0.50	0.26	0.14	0.08	
10	0.08	0.18	2.60	0.29	54.40	13.88	20.66	1.30	0.55	0.26	0.14	0.08	
11	0.08	0.47	3.92	0.26	8.20	10.52	11.57	1.30	0.55	0.26	0.44	0.06	
12	0.08	0.38	13.25	0.26	2.14	27.28	8.96	1.24	0.55	0.26	0.32	0.06	
13	0.08	0.23	8.20	0.18	1.30	13.88	8.20	1.30	0.55	0.26	0.23	0.08	
14	0.08	0.20	1.60	0.18	0.95	8.20	5.46	1.87	0.47	0.26	0.20	0.06	
15	0.08	0.20	1.24	0.16	0.80	5.32	5.60	1.60	0.44	0.26	0.18	0.04	
16	0.10	0.20	0.75	0.16	0.60	4.06	6.30	1.30	0.44	0.23	0.16	0.02	
17	0.12	0.18	1.06	0.16	0.80	3.92	4.62	1.24	0.44	0.23	0.16	0.02	
18	0.10	0.12	2.14	0.14	4.62	6.68	3.00	1.36	0.44	0.20	0.16	0.00	
19	0.16	1.12	2.23	0.12	3.10	14.82	3.30	1.18	0.44	0.20	0.14	0.02	
20	0.14	9.53	3.64	0.10	1.69	20.37	5.32	1.00	0.41	0.20	0.14	0.02	
21	0.35	1.18	10.10	0.10	1.06	9.72	8.01	1.06	0.41	0.20	0.12	0.00	
22	0.23	0.50	3.40	0.08	0.80	8.01	12.41	1.06	0.41	0.20	0.12	0.00	
23	0.60	0.47	1.54	0.06	0.95	6.16	6.68	1.00	0.41	0.20	0.10	0.00	
24	0.29	0.60	0.65	0.06	7.82	3.78	4.76	1.00	0.41	0.20	0.10	0.00	
25	0.18	0.90	0.50	0.10	12.20	3.64	3.10	1.00	0.38	0.20	0.10	0.00	
26	0.16	0.65	0.41	0.14	4.48	4.06	2.50	1.00	0.38	0.20	0.14	0.00	
27	0.70	1.69	0.32	0.16	2.23	13.67	2.32	0.95	0.38	0.20	0.14	0.00	
28	0.60	0.85	0.29	0.16	1.48	6.87	2.23	0.85	0.38	0.18	0.14	0.00	
29	0.32	0.80	0.90	0.29	1.54	4.76	2.14	0.80	0.38	0.18	0.12	0.00	
30	0.20	1.54	0.60	0.65	1.18	4.48	1.96	0.75	0.38	0.18		0.00	
31		0.95		3.50	1.00		1.96		0.38	0.16		0.00	
TOTAL	6.50	27.76	80.14	10.43	132.90	313.52	240.87	37.63	15.08	7.57	4.69	1.22	878.31 CMSDAY
MEAN	0.22	0.90	2.67	0.34	4.29	10.45	7.77	1.25	0.49	0.24	0.16	0.04	2.40 CMS
MAX	0.70	9.53	13.25	3.50	54.40	57.70	38.93	1.87	0.65	0.35	0.44	0.10	57.70 CMS
MIN	0.08	0.12	0.29	0.06	0.23	1.00	1.96	0.75	0.38	0.16	0.10	0.00	0.00 CMS
RUNOFF	0.562	2.398	6.924	0.901	11.483	27.088	20.811	3.251	1.303	0.654	0.405	0.105	75.886 MCM

MOMENTARY PEAK 100.59 CMS, AT 3.59 M (A.D), AT 10.00 HOURS, ON AUG 10, 1987

RUNOFF YIELD 5.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 213.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

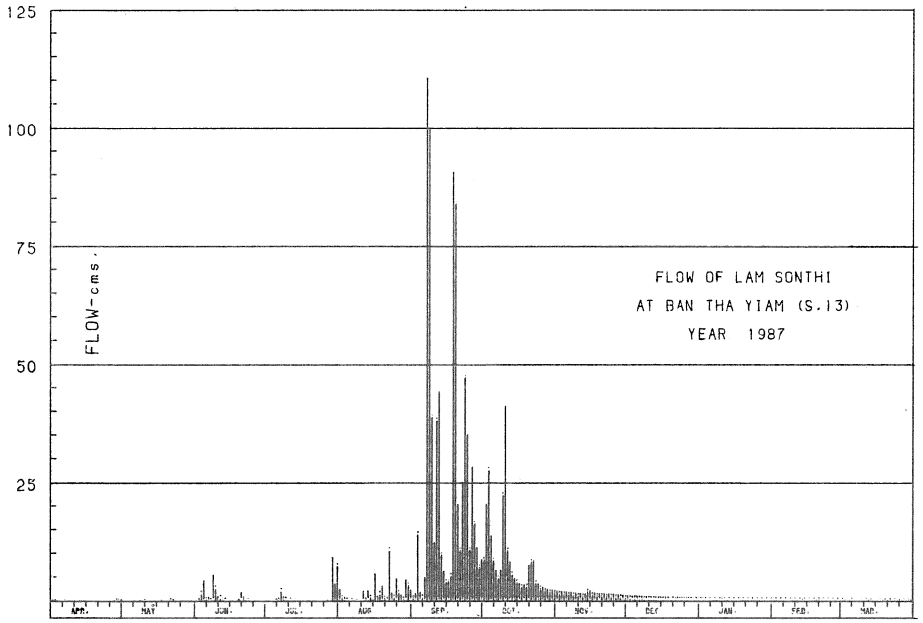
LAM SONTHI AT BAN THA YIAM, LOP BURI (S.13)

LOCATION	LAT. 15-20-21 N., LONG. 101-22-30 E., ON LEFT BANK NEAR WAT THA YIAM, AMPHOE CHAI BADAN, LOP BURI.
DRAINAGE AREA	359 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 15 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.697 M.(A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00 - 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.39	0.34	0.43	0.90	0.67	1.87	0.84	0.65	0.56	0.54	0.52	
2	0.40	0.38	0.49	0.44	0.65	0.73	3.00	0.83	0.65	0.56	0.54	0.52	
3	0.40	0.37	0.84	0.46	0.57	2.42	3.62	0.82	0.64	0.56	0.54	0.52	
4	0.39	0.36	1.21	0.49	0.52	0.79	2.33	0.81	0.64	0.56	0.54	0.52	
5	0.39	0.36	0.56	0.45	0.50	0.69	1.85	0.80	0.64	0.56	0.54	0.51	
6	0.38	0.35	0.57	0.52	0.49	1.30	1.52	0.79	0.63	0.56	0.54	0.51	
7	0.36	0.35	0.48	0.94	0.46	7.33	1.35	0.78	0.63	0.56	0.54	0.51	
8	0.35	0.54	1.38	0.61	0.45	6.98	1.52	0.77	0.62	0.55	0.53	0.51	
9	0.35	0.45	1.03	0.58	0.43	4.39	3.21	0.76	0.62	0.55	0.53	0.51	
10	0.34	0.42	0.62	0.52	0.43	2.19	4.51	0.74	0.62	0.55	0.53	0.51	
11	0.33	0.40	0.67	0.51	0.84	4.35	2.07	0.73	0.62	0.55	0.53	0.50	
12	0.32	0.40	0.53	0.49	0.54	4.69	1.77	0.73	0.61	0.55	0.53	0.50	
13	0.31	0.38	0.51	0.46	0.85	1.97	1.47	0.73	0.61	0.55	0.53	0.50	
14	0.30	0.37	0.47	0.45	0.67	1.49	1.27	0.91	0.60	0.55	0.53	0.50	
15	0.29	0.37	0.45	0.44	0.51	1.24	1.23	0.85	0.60	0.55	0.53	0.50	
16	0.28	0.37	0.43	0.43	1.53	1.16	1.10	0.78	0.59	0.55	0.53	0.50	
17	0.28	0.35	0.43	0.48	0.62	1.42	1.06	0.77	0.59	0.55	0.53	0.50	
18	0.28	0.39	0.43	0.43	0.84	6.68	1.06	0.75	0.59	0.54	0.53	0.50	
19	0.28	0.39	0.66	0.43	1.01	6.46	1.08	0.73	0.58	0.54	0.53	0.50	
20	0.28	0.43	0.78	0.46	0.64	3.00	1.67	0.75	0.58	0.54	0.53	0.50	
21	0.28	0.49	0.61	0.45	0.57	2.07	1.82	0.73	0.58	0.54	0.53	0.50	
22	0.28	0.42	0.51	0.44	2.08	3.38	1.79	0.72	0.57	0.54	0.53	0.50	
23	0.29	0.40	0.47	0.41	0.76	4.88	1.21	0.72	0.57	0.54	0.53	0.50	
24	0.29	0.38	0.46	0.40	0.68	4.12	1.09	0.72	0.57	0.54	0.53	0.50	
25	0.29	0.37	0.45	0.39	1.26	2.08	1.02	0.71	0.57	0.54	0.53	0.50	
26	0.29	0.37	0.44	0.38	0.87	3.63	0.97	0.70	0.57	0.54	0.52	0.50	
27	0.35	0.36	0.43	0.38	0.68	2.64	0.92	0.70	0.57	0.54	0.52	0.50	
28	0.46	0.36	0.41	0.37	0.60	2.09	0.90	0.69	0.56	0.54	0.52	0.50	
29	0.44	0.35	0.41	1.94	1.23	1.68	0.88	0.67	0.56	0.54	0.52	0.49	
30	0.40	0.35	0.40	1.09	1.13	1.82	0.87	0.66	0.56	0.54		0.49	
31		0.34		1.72	0.87		0.86		0.56	0.54		0.49	
MEAN	0.34	0.39	0.58	0.58	0.78	2.94	1.64	0.76	0.60	0.55	0.53	0.50	
MAX	0.46	0.54	1.38	1.94	2.08	7.33	4.51	0.91	0.65	0.56	0.54	0.52	7.33
MIN	0.28	0.34	0.34	0.37	0.43	0.67	0.86	0.66	0.56	0.54	0.52	0.49	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.92 M (A.D), AT 6.00 HOURS, ON SEP 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.26 M (A.D)
LEFT BANK ELEVATION 8.99 M (A.D)
RIGHT BANK ELEVATION 8.17 M (A.D), DRAINAGE AREA 359 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.27	0.14	0.39	2.50	1.25	9.23	2.14	1.15	0.78	0.72	0.66	
2	0.30	0.25	0.57	0.42	1.15	1.55	20.50	2.08	1.15	0.78	0.72	0.66	
3	0.30	0.22	2.14	0.48	0.81	14.70	28.26	2.02	1.10	0.78	0.72	0.66	
4	0.27	0.19	4.37	0.57	0.66	1.85	13.80	1.96	1.10	0.78	0.72	0.66	
5	0.27	0.19	0.78	0.45	0.60	1.35	9.05	1.90	1.10	0.78	0.72	0.63	
6	0.25	0.16	0.81	0.66	0.57	5.00	6.54	1.85	1.05	0.78	0.72	0.63	
7	0.19	0.16	0.54	2.74	0.48	111.29	5.35	1.80	1.05	0.78	0.72	0.63	
8	0.16	0.72	5.56	0.95	0.45	99.98	6.54	1.75	1.00	0.75	0.69	0.63	
9	0.16	0.45	3.28	0.84	0.39	39.34	22.93	1.70	1.00	0.75	0.69	0.63	
10	0.14	0.36	1.00	0.66	0.39	12.40	41.26	1.60	1.00	0.75	0.69	0.63	
11	0.11	0.30	1.25	0.63	2.14	38.70	11.20	1.55	1.00	0.75	0.69	0.60	
12	0.08	0.30	0.69	0.57	0.72	44.32	8.36	1.55	0.95	0.75	0.69	0.60	
13	0.06	0.25	0.63	0.48	2.20	10.20	6.19	1.55	0.95	0.75	0.69	0.60	
14	0.03	0.22	0.51	0.45	1.25	6.33	4.79	2.56	0.90	0.75	0.69	0.60	
15	0.03	0.22	0.45	0.42	0.63	4.58	4.51	2.20	0.90	0.75	0.69	0.60	
16	0.02	0.22	0.39	0.39	6.61	4.06	3.70	1.80	0.87	0.75	0.69	0.60	
17	0.02	0.16	0.39	0.54	1.00	5.84	3.46	1.75	0.87	0.75	0.69	0.60	
18	0.02	0.27	0.39	0.39	2.14	90.72	3.46	1.65	0.87	0.72	0.69	0.60	
19	0.02	0.27	1.20	0.39	3.16	84.48	3.58	1.55	0.84	0.72	0.69	0.60	
20	0.02	0.39	1.80	0.48	1.10	20.50	7.59	1.65	0.84	0.72	0.69	0.60	
21	0.02	0.57	0.95	0.45	0.81	11.20	8.78	1.55	0.84	0.72	0.69	0.60	
22	0.02	0.36	0.63	0.42	11.30	25.14	8.52	1.50	0.81	0.72	0.69	0.60	
23	0.03	0.30	0.51	0.33	1.70	47.74	4.37	1.50	0.81	0.72	0.69	0.60	
24	0.03	0.25	0.48	0.30	1.30	35.20	3.64	1.50	0.81	0.72	0.69	0.60	
25	0.03	0.22	0.45	0.27	4.72	11.30	3.22	1.45	0.81	0.72	0.69	0.60	
26	0.03	0.22	0.42	0.25	2.32	28.39	2.92	1.40	0.81	0.72	0.66	0.60	
27	0.16	0.19	0.39	0.25	1.30	16.90	2.62	1.40	0.81	0.72	0.66	0.60	
28	0.48	0.19	0.33	0.22	0.90	11.40	2.50	1.35	0.78	0.72	0.66	0.60	
29	0.42	0.16	0.33	9.90	4.51	7.66	2.38	1.25	0.78	0.72	0.66	0.57	
30	0.30	0.16	0.30	3.64	3.88	8.78	2.32	1.20	0.78	0.72		0.57	
31		0.14		7.96	2.32		2.26		0.78	0.72		0.57	
TOTAL	4.33	8.33	31.68	36.89	64.01	802.15	263.83	50.71	28.51	23.04	20.10	18.93	1352.51 CMSDAY
MEAN	0.14	0.27	1.06	1.19	2.06	26.74	8.51	1.69	0.92	0.74	0.69	0.61	3.70 CMS
MAX	0.48	0.72	5.56	9.90	11.30	111.29	41.26	2.56	1.15	0.78	0.72	0.66	111.29 CMS
MIN	0.02	0.14	0.14	0.22	0.39	1.25	2.26	1.20	0.78	0.72	0.66	0.57	0.02 CMS
RUNOFF	0.374	0.720	2.737	3.187	5.530	69.306	22.795	4.381	2.463	1.991	1.737	1.636	116.857 MCM

MOMENTARY PEAK 131.94 CMS, AT 7.92 M (A.D), AT 6.00 HOURS, ON SEP 8, 1987

RUNOFF YIELD 10.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 367.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

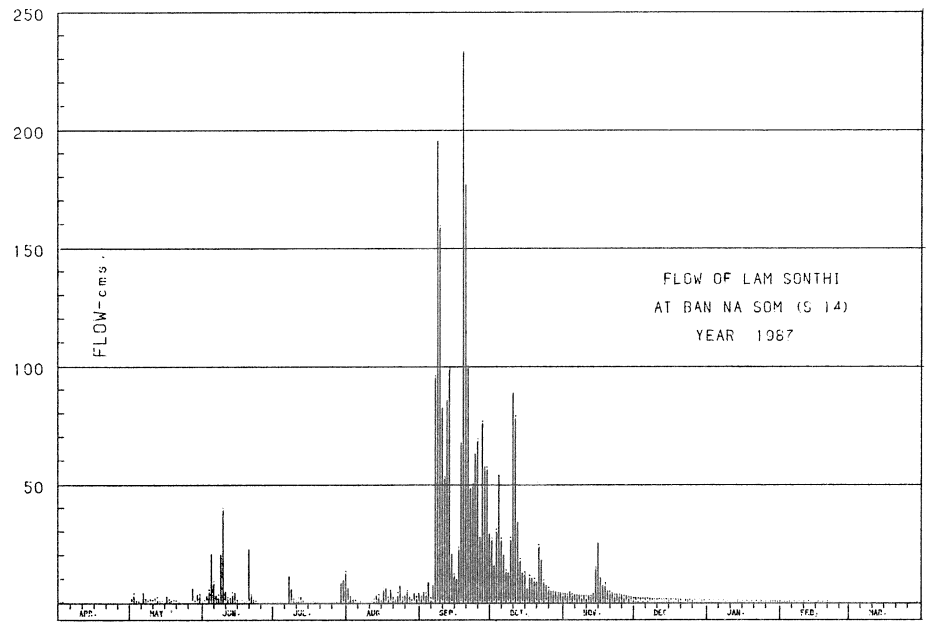
LAM SONTHI AT BAN NA SOM, LOP BURI (S.14)

LOCATION	LAT. 15°13'24" N., LONG. 101°16'51" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN NA SOM, TAMBON NONG YI TO, AMPHOE CHAI BADAN, LOP BURI.
DRAINAGE AREA	1,247 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE GAGE OBSERVER'S HOUSE.
ELEVATION	+10.065 M.(A.D.)
GAGE READING FREQUENCY	12-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 149 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.26	1.78	1.54	1.49	2.44	1.97	4.29	2.14	1.85	1.61	1.43	1.38	
2	1.25	2.19	1.96	1.47	1.93	2.22	3.40	2.11	1.84	1.60	1.43	1.36	
3	1.21	1.51	2.39	1.33	1.68	2.21	4.53	2.26	1.83	1.59	1.43	1.34	
4	1.19	1.35	3.83	1.32	1.56	2.71	5.81	2.13	1.82	1.58	1.43	1.34	
5	1.17	1.39	2.77	1.40	1.44	1.86	4.29	2.05	1.82	1.58	1.43	1.34	
6	1.16	2.38	2.00	1.39	1.44	2.57	3.79	2.03	1.82	1.57	1.42	1.34	
7	1.16	1.79	2.09	3.10	1.34	7.56	3.25	2.02	1.80	1.57	1.42	1.34	
8	1.16	1.49	3.80	2.39	1.29	9.35	3.12	2.00	1.76	1.56	1.42	1.33	
9	1.18	1.75	5.09	1.78	1.24	8.96	4.31	1.99	1.76	1.55	1.42	1.33	
10	1.18	1.63	2.28	1.58	1.28	7.08	7.32	1.99	1.74	1.54	1.42	1.33	
11	1.17	1.82	1.90	1.86	1.47	5.78	6.95	1.97	1.76	1.53	1.44	1.32	
12	1.17	1.90	1.83	1.90	1.78	7.20	4.71	2.00	1.75	1.53	1.44	1.32	
13	1.17	1.59	2.24	1.48	1.98	7.67	3.67	2.14	1.75	1.53	1.43	1.29	
14	1.18	1.45	2.19	1.40	2.08	3.81	3.11	3.36	1.75	1.52	1.43	1.29	
15	1.18	1.34	1.67	1.32	1.58	3.08	3.16	4.15	1.73	1.51	1.42	1.28	
16	1.19	2.17	1.51	1.38	2.48	2.84	2.41	2.90	1.73	1.49	1.43	1.27	
17	1.19	1.76	1.66	1.34	2.43	4.03	3.02	2.55	1.73	1.50	1.43	1.24	
18	1.19	1.44	1.44	1.37	1.92	6.48	2.89	2.70	1.73	1.49	1.43	1.24	
19	1.19	1.64	1.40	1.33	2.35	9.64	2.89	2.29	1.72	1.49	1.43	1.24	
20	1.19	1.54	3.96	1.35	1.90	9.17	2.73	2.29	1.70	1.49	1.43	1.24	
21	1.19	1.41	2.09	1.30	1.67	7.69	4.10	2.19	1.69	1.48	1.43	1.25	
22	1.17	1.38	1.68	1.28	2.22	5.52	3.61	2.09	1.68	1.48	1.43	1.26	
23	1.25	1.28	1.48	1.25	2.56	5.62	2.82	2.09	1.66	1.48	1.43	1.27	
24	1.20	1.24	1.47	1.22	1.90	6.25	2.57	2.09	1.66	1.48	1.43	1.27	
25	1.24	1.23	1.40	1.25	1.98	6.56	2.48	2.04	1.65	1.47	1.39	1.27	
26	1.25	1.23	1.33	1.22	2.35	4.31	2.28	2.00	1.65	1.47	1.40	1.26	
27	1.20	2.44	1.36	1.21	1.91	6.86	2.29	1.96	1.63	1.47	1.40	1.26	
28	1.21	1.47	1.30	1.19	1.71	5.98	2.22	1.92	1.63	1.46	1.39	1.25	
29	1.20	2.05	1.28	2.75	2.13	5.98	2.20	1.89	1.63	1.46	1.39	1.25	
30	1.19	2.12	1.42	2.81	1.95	4.40	2.18	1.86	1.63	1.45		1.25	
31		1.54		3.20	2.16		2.15		1.62	1.45		1.24	
MEAN	1.19	1.65	2.08	1.63	1.88	5.51	3.50	2.24	1.73	1.52	1.42	1.29	
MAX	1.26	2.44	5.09	3.20	2.56	9.64	7.32	4.15	1.85	1.61	1.44	1.38	9.64
MIN	1.16	1.23	1.28	1.19	1.24	1.86	2.15	1.86	1.62	1.45	1.39	1.24	1.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.69 M (A.D), AT 12.00 HOURS, ON SEP 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.50 M (A.D)
LEFT BANK ELEVATION 9.84 M (A.D)
RIGHT BANK ELEVATION 9.73 M (A.D), DRAINAGE AREA 1247 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	1.90	1.18	1.08	6.26	3.02	27.55	4.04	2.30	1.32	0.96	0.86	
2	0.60	4.34	2.96	1.04	2.78	4.54	15.80	3.86	2.24	1.30	0.96	0.82	
3	0.52	1.12	5.82	0.76	1.46	4.47	31.28	4.82	2.18	1.28	0.96	0.78	
4	0.48	0.80	20.92	0.74	1.22	8.70	54.20	3.98	2.12	1.26	0.96	0.78	
5	0.44	0.88	9.30	0.90	0.98	2.36	27.55	3.50	2.12	1.26	0.96	0.78	
6	0.42	5.74	3.20	0.88	0.98	7.43	20.37	3.38	2.12	1.24	0.94	0.78	
7	0.42	1.95	3.74	12.60	0.78	96.22	14.15	3.32	2.00	1.24	0.94	0.78	
8	0.42	1.08	20.50	5.82	0.68	195.50	12.80	3.20	1.80	1.22	0.94	0.76	
9	0.46	1.75	40.43	1.90	0.58	159.58	27.85	3.14	1.80	1.20	0.94	0.76	
10	0.46	1.36	4.96	1.26	0.66	82.50	88.86	3.14	1.70	1.18	0.94	0.76	
11	0.44	2.12	2.60	2.36	1.04	53.60	79.22	3.02	1.80	1.16	0.98	0.74	
12	0.44	2.60	2.18	2.60	1.90	85.60	34.16	3.20	1.75	1.16	0.98	0.74	
13	0.44	1.28	4.68	1.06	3.08	99.74	18.84	4.04	1.75	1.16	0.96	0.68	
14	0.46	1.00	4.34	0.90	3.68	20.64	12.70	15.36	1.75	1.14	0.96	0.68	
15	0.46	0.78	1.44	0.74	1.26	12.40	13.20	25.45	1.65	1.12	0.94	0.66	
16	0.48	4.22	1.12	0.86	6.62	10.00	5.99	10.60	1.65	1.08	0.96	0.64	
17	0.48	1.80	1.42	0.78	6.17	23.72	11.80	7.25	1.65	1.10	0.96	0.58	
18	0.48	0.98	0.98	0.84	2.72	67.76	10.50	8.60	1.65	1.08	0.96	0.58	
19	0.48	1.38	0.90	0.76	5.50	233.72	10.50	5.03	1.60	1.08	0.96	0.58	
20	0.48	1.18	22.74	0.80	2.60	176.87	8.90	5.03	1.50	1.08	0.96	0.58	
21	0.48	0.92	3.74	0.70	1.44	100.38	24.70	4.34	1.48	1.06	0.96	0.60	
22	0.44	0.86	1.46	0.66	4.54	48.40	18.12	3.74	1.46	1.06	0.96	0.62	
23	0.60	0.66	1.06	0.60	7.34	50.40	9.80	3.74	1.42	1.06	0.96	0.64	
24	0.50	0.58	1.04	0.54	2.60	63.00	7.43	3.74	1.42	1.06	0.96	0.64	
25	0.58	0.56	0.90	0.60	3.08	69.52	6.62	3.44	1.40	1.04	0.88	0.64	
26	0.60	0.56	0.76	0.54	5.50	27.85	4.96	3.20	1.40	1.04	0.90	0.62	
27	0.50	6.26	0.82	0.52	2.66	76.95	5.03	2.96	1.36	1.04	0.90	0.62	
28	0.52	1.04	0.70	0.48	1.55	57.60	4.54	2.72	1.36	1.02	0.88	0.60	
29	0.50	3.50	0.66	9.10	3.98	57.60	4.40	2.54	1.36	1.02	0.88	0.60	
30	0.48	3.92	0.94	9.70	2.90	29.20	4.28	2.36	1.36	1.00		0.60	
31		1.18		13.60	4.16		4.10		1.34	1.00		0.58	
TOTAL	14.68	58.30	167.49	75.72	90.70	1929.27	620.20	156.74	52.49	35.06	27.40	21.08	3249.13 CMSDAY
MEAN	0.49	1.88	5.58	2.44	2.93	64.31	20.01	5.22	1.69	1.13	0.94	0.68	8.88 CMS
MAX	0.62	6.26	40.43	13.60	7.34	233.72	88.86	25.45	2.30	1.32	0.98	0.86	233.72 CMS
MIN	0.42	0.56	0.66	0.48	0.58	2.36	4.10	2.36	1.34	1.00	0.88	0.58	0.42 CMS
RUNOFF	1.268	5.037	14.471	6.542	7.836	166.689	53.585	13.542	4.535	3.029	2.367	1.821	280.725 MCM

MOMENTARY PEAK 241.87 CMS, AT 9.69 M (A.D), AT 12.00 HOURS, ON SEP 19, 1987
RUNOFF YIELD 7.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 193.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

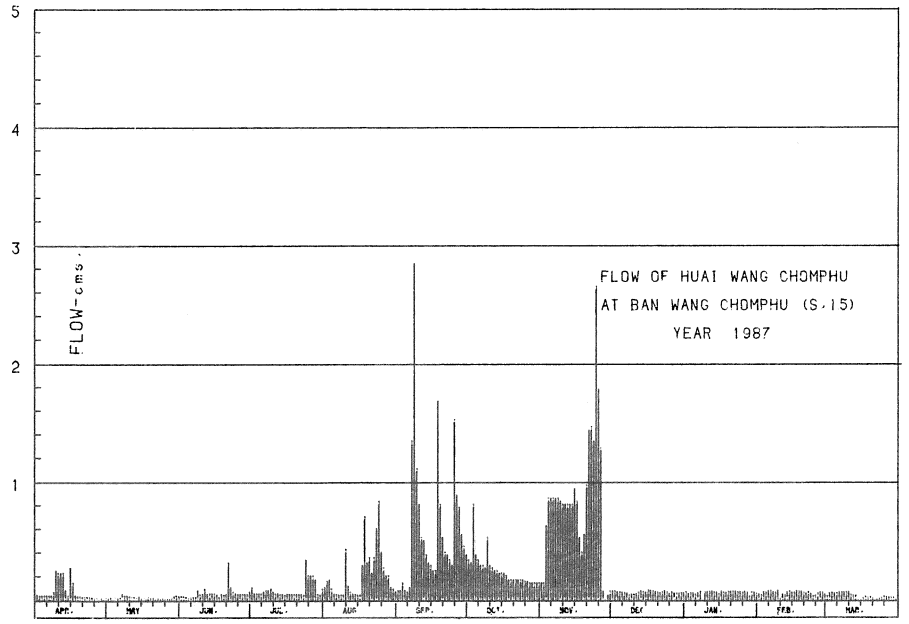
HUAI WANG CHOMPHU AT BAN WANG CHOMPHU, PHETCHABUN (S.15)

LOCATION	LAT. 16°-15'-36" N., LONG. 101°-02'-07" E., ON RIGHT BANK AT THE BRIDGE OF AMPHOE CHON DAN-BAN SAM YAEK WANG CHOMPHU ROAD, BAN WANG CHOMPHU, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	15 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.894 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.12	-0.16	-0.14	-0.06	-0.06	-0.08	0.07	-0.03	1.38	1.36	1.31	1.27	
2	-0.13	-0.16	-0.14	-0.10	-0.02	-0.08	0.06	-0.03	1.38	1.32	1.30	1.34	
3	-0.13	-0.16	-0.15	-0.10	-0.01	-0.03	0.26	0.19	1.36	1.34	1.36	1.35	
4	-0.13	-0.16	-0.16	-0.10	-0.07	-0.08	0.09	0.28	1.36	1.34	1.35	1.33	
5	-0.13	-0.16	-0.16	-0.10	-0.11	-0.09	0.07	0.28	1.35	1.31	1.38	1.34	
6	-0.13	-0.16	-0.15	-0.09	-0.11	-0.06	0.05	0.28	1.35	1.34	1.39	1.36	
7	-0.13	-0.11	-0.15	-0.08	-0.12	0.45	0.05	0.28	1.33	1.37	1.36	1.36	
8	-0.09	-0.13	-0.08	-0.08	-0.12	0.88	0.04	0.28	1.30	1.05	1.35	1.36	
9	0.03	-0.13	-0.11	-0.07	-0.12	0.37	0.15	0.27	1.31	1.36	1.39	1.36	
10	0.02	-0.14	-0.11	-0.09	0.11	0.26	0.05	0.26	1.31	1.36	1.19	1.36	
11	0.02	-0.15	-0.07	-0.10	-0.05	0.15	0.04	0.26	1.32	1.37	1.31	1.30	
12	0.02	-0.15	-0.11	-0.10	-0.09	0.14	0.03	0.26	1.35	1.37	1.29	1.29	
13	-0.08	-0.16	-0.10	-0.11	-0.11	0.09	0.03	0.26	1.38	1.36	1.36	1.28	
14	-0.13	-0.14	-0.10	-0.11	-0.11	0.06	0.02	0.26	1.36	1.35	1.38	1.18	
15	0.04	-0.16	-0.10	-0.12	-0.12	0.05	0.02	0.31	1.35	1.32	1.35	1.08	
16	-0.03	-0.16	-0.12	-0.11	-0.12	0.03	0.02	0.27	1.40	1.37	1.35	1.21	
17	-0.13	-0.16	-0.15	-0.11	0.05	0.03	0.01	0.15	1.39	1.36	1.38	1.25	
18	-0.14	-0.13	-0.11	-0.11	0.22	0.56	-0.01	0.10	1.38	1.34	1.37	1.23	
19	-0.14	-0.16	-0.12	-0.11	0.06	0.26	-0.01	0.16	1.36	1.37	1.37	1.24	
20	-0.15	-0.16	-0.11	-0.11	0.08	0.15	-0.01	0.32	1.35	1.37	1.35	1.23	
21	-0.15	-0.17	0.06	-0.11	0.02	0.10	-0.01	0.48	1.34	1.37	1.33	1.02	
22	-0.15	-0.17	-0.06	-0.11	0.08	0.09	-0.01	0.49	1.36	1.37	1.36	1.13	
23	-0.15	-0.17	-0.09	-0.12	0.18	0.07	-0.01	0.45	1.38	1.36	1.32	1.18	
24	-0.16	-0.17	-0.10	0.07	0.27	0.05	-0.01	0.83	1.36	1.36	1.27	1.22	
25	-0.16	-0.17	-0.11	0.01	0.10	0.51	-0.02	0.59	1.32	1.35	1.28	1.26	
26	-0.16	-0.17	-0.11	0.01	0.04	0.29	-0.02	0.43	1.36	1.37	1.33	1.24	
27	-0.17	-0.17	-0.11	0.01	0.01	0.25	-0.03	1.37	1.33	1.35	1.36	1.23	
28	-0.17	-0.16	-0.11	-0.01	0.01	0.16	-0.03	1.03	1.33	1.26	1.35	1.24	
29	-0.17	-0.14	-0.11	-0.11	-0.06	0.12	-0.03	1.28	1.33	1.36	1.31	1.22	
30	-0.16	-0.13	-0.09	-0.12	-0.07	0.09	-0.03	1.38	1.34	1.35		1.20	
31		-0.14		-0.07	-0.09		-0.03		1.34	1.33		1.10	
MEAN	-0.11	-0.15	-0.11	-0.08	-0.01	0.16	0.03	0.42	1.35	1.34	1.34	1.25	
MAX	0.04	-0.11	0.06	0.07	0.27	0.88	0.26	1.38	1.40	1.37	1.39	1.36	1.40
MIN	-0.17	-0.17	-0.16	-0.12	-0.12	-0.09	-0.03	-0.03	1.30	1.05	1.19	1.02	-0.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.70 M (A.D), AT 15.00 HOURS, ON SEP 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.30 M (A.D)
LEFT BANK ELEVATION 4.23 M (A.D)
RIGHT BANK ELEVATION 4.80 M (A.D), DRAINAGE AREA 15 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.048	0.024	0.036	0.112	0.112	0.086	0.344	0.151	0.082	0.074	0.054	0.041	
2	0.042	0.024	0.036	0.060	0.164	0.086	0.322	0.151	0.082	0.058	0.050	0.066	
3	0.042	0.024	0.030	0.060	0.177	0.151	0.816	0.635	0.074	0.066	0.074	0.070	
4	0.042	0.024	0.024	0.060	0.099	0.086	0.388	0.868	0.074	0.066	0.070	0.062	
5	0.042	0.024	0.024	0.060	0.054	0.073	0.344	0.868	0.070	0.054	0.082	0.066	
6	0.042	0.024	0.030	0.073	0.054	0.112	0.300	0.868	0.070	0.066	0.086	0.074	
7	0.042	0.054	0.030	0.086	0.048	1.350	0.300	0.868	0.062	0.078	0.074	0.074	
8	0.073	0.042	0.086	0.086	0.048	2.852	0.278	0.868	0.050	0.005	0.070	0.074	
9	0.256	0.042	0.054	0.099	0.048	1.116	0.535	0.842	0.054	0.074	0.086	0.074	
10	0.234	0.036	0.054	0.073	0.435	0.816	0.300	0.816	0.054	0.074	0.019	0.074	
11	0.234	0.030	0.099	0.060	0.125	0.535	0.278	0.816	0.058	0.078	0.054	0.050	
12	0.234	0.030	0.054	0.060	0.073	0.510	0.256	0.816	0.070	0.078	0.047	0.047	
13	0.086	0.024	0.060	0.054	0.054	0.388	0.256	0.816	0.082	0.074	0.074	0.044	
14	0.042	0.036	0.060	0.054	0.054	0.322	0.234	0.816	0.074	0.070	0.082	0.018	
15	0.278	0.024	0.060	0.048	0.048	0.300	0.234	0.948	0.070	0.058	0.070	0.008	
16	0.151	0.024	0.048	0.054	0.048	0.256	0.234	0.842	0.090	0.078	0.070	0.023	
17	0.042	0.024	0.030	0.054	0.300	0.256	0.212	0.535	0.086	0.074	0.082	0.035	
18	0.036	0.042	0.054	0.054	0.712	1.692	0.177	0.410	0.082	0.066	0.078	0.029	
19	0.036	0.024	0.048	0.054	0.322	0.816	0.177	0.560	0.074	0.078	0.078	0.032	
20	0.030	0.024	0.054	0.054	0.366	0.535	0.177	0.976	0.070	0.078	0.070	0.029	
21	0.030	0.018	0.322	0.054	0.234	0.410	0.177	1.440	0.066	0.078	0.062	0.002	
22	0.030	0.018	0.112	0.054	0.366	0.388	0.177	1.470	0.074	0.078	0.074	0.013	
23	0.030	0.018	0.073	0.048	0.610	0.344	0.177	1.350	0.082	0.074	0.058	0.018	
24	0.024	0.018	0.060	0.344	0.842	0.300	0.177	2.657	0.074	0.074	0.041	0.026	
25	0.024	0.018	0.054	0.212	0.410	1.532	0.164	1.788	0.058	0.070	0.044	0.038	
26	0.024	0.018	0.054	0.212	0.278	0.894	0.164	1.290	0.074	0.078	0.062	0.032	
27	0.018	0.018	0.054	0.212	0.212	0.790	0.151	0.078	0.062	0.070	0.074	0.029	
28	0.018	0.024	0.054	0.177	0.212	0.560	0.151	0.003	0.062	0.038	0.070	0.032	
29	0.018	0.036	0.054	0.054	0.112	0.460	0.151	0.044	0.062	0.074	0.054	0.026	
30	0.024	0.042	0.073	0.048	0.099	0.388	0.151	0.082	0.066	0.070		0.020	
31		0.036		0.099	0.073		0.151		0.066	0.062		0.010	
TOTAL	2.272	0.864	1.881	2.829	6.789	18.404	7.953	24.672	2.174	2.113	1.909	1.236	73.096 CMSDAY
MEAN	0.076	0.028	0.063	0.091	0.219	0.613	0.257	0.822	0.070	0.068	0.066	0.040	0.200 CMS
MAX	0.278	0.054	0.322	0.344	0.842	2.852	0.816	2.657	0.090	0.078	0.086	0.074	2.852 CMS
MIN	0.018	0.018	0.024	0.048	0.048	0.073	0.151	0.003	0.050	0.005	0.019	0.002	0.002 CMS
RUNOFF	0.196	0.075	0.163	0.244	0.587	1.590	0.687	2.132	0.188	0.183	0.165	0.107	6.315 MCM

MOMENTARY PEAK 7.05 CMS, AT 1.70 M (A.D), AT 15.00 HOURS, ON SEP 25, 1987

RUNOFF YIELD 13.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 470.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

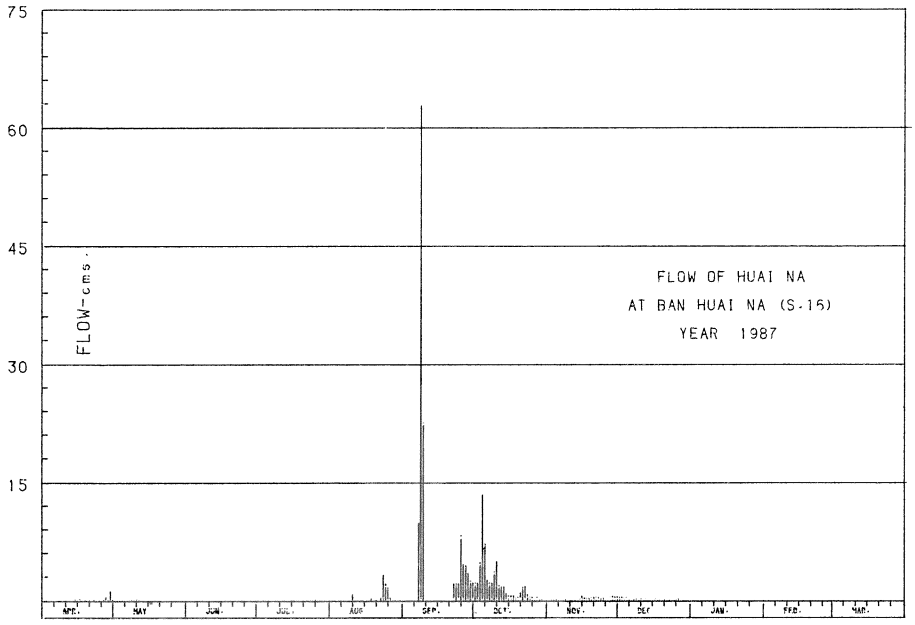
HUAI NA AT BAN HUAI NA, PHETCHABUN (S.16)

LOCATION	LAT. 16°-16'-00" N., LONG. 101°-03'-32" E., ON RIGHT BANK ABOUT 30 METERS DOWNSTREAM FROM THE BRIDGE ON HIGHWAY AT BAN HUAI NA, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	65 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.339 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. NO RECORDS ON SEPT.10-21,1987. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.94	0.63	0.47	0.47	0.50	0.58	1.00	0.65	0.75	0.61	0.58	0.57	
2	0.94	0.64	0.47	0.46	0.52	0.65	1.00	0.65	0.75	0.61	0.58	0.57	
3	0.94	0.64	0.47	0.46	0.49	0.66	1.17	0.66	0.74	0.61	0.58	0.57	
4	0.94	0.65	0.47	0.46	0.47	0.61	1.48	0.66	0.74	0.60	0.58	0.57	
5	0.94	0.65	0.47	0.46	0.47	0.58	1.28	0.66	0.73	0.58	0.58	0.57	
6	0.94	0.64	0.47	0.46	0.46	0.53	1.03	0.66	0.72	0.58	0.60	0.57	
7	0.94	0.64	0.47	0.46	0.46	1.38	1.00	0.66	0.70	0.57	0.59	0.57	
8	0.94	0.64	0.47	0.46	0.46	2.18	1.00	0.66	0.70	0.58	0.56	0.57	
9	0.94	0.65	0.47	0.46	0.46	1.68	1.11	0.66	0.70	0.59	0.56	0.57	
10	0.94	0.65	0.47	0.46	0.84	*******	1.18	0.66	0.70	0.58	0.56	0.57	
11	0.94	0.64	0.47	0.46	0.46	*******	0.97	0.65	0.70	0.59	0.56	0.57	
12	0.94	0.64	0.47	0.46	0.44	*******	0.95	0.65	0.70	0.58	0.56	0.57	
13	0.94	0.62	0.47	0.46	0.42	*******	0.95	0.68	0.70	0.59	0.56	0.57	
14	0.69	0.54	0.47	0.47	0.42	*******	0.85	0.68	0.70	0.59	0.56	0.57	
15	0.69	0.50	0.51	0.46	0.42	*******	0.80	0.79	0.69	0.58	0.56	0.57	
16	0.65	0.48	0.47	0.46	0.42	*******	0.80	0.73	0.68	0.61	0.58	0.57	
17	0.63	0.48	0.54	0.46	0.56	*******	0.80	0.73	0.66	0.55	0.58	0.57	
18	0.61	0.48	0.48	0.46	0.76	*******	0.75	0.73	0.64	0.55	0.58	0.57	
19	0.61	0.48	0.48	0.46	0.59	*******	0.75	0.75	0.64	0.56	0.58	0.57	
20	0.61	0.48	0.48	0.46	0.63	*******	0.86	0.75	0.64	0.56	0.58	0.57	
21	0.61	0.47	0.48	0.46	0.57	*******	0.95	0.75	0.64	0.56	0.58	0.57	
22	0.61	0.47	0.48	0.46	0.75	0.99	0.96	0.74	0.64	0.56	0.58	0.57	
23	0.61	0.47	0.48	0.48	1.08	0.99	0.82	0.73	0.64	0.56	0.58	0.56	
24	0.61	0.47	0.48	0.58	0.99	0.99	0.75	0.72	0.63	0.56	0.58	0.56	
25	0.61	0.47	0.48	0.65	0.94	1.32	0.75	0.71	0.68	0.56	0.58	0.56	
26	0.61	0.47	0.48	0.50	0.73	1.16	0.75	0.71	0.68	0.56	0.57	0.56	
27	0.75	0.47	0.48	0.50	0.65	1.15	0.75	0.75	0.65	0.56	0.57	0.56	
28	0.60	0.47	0.48	0.51	0.61	1.10	0.70	0.78	0.65	0.56	0.57	0.56	
29	0.89	0.47	0.47	0.52	0.60	1.02	0.65	0.76	0.64	0.56	0.57	0.56	
30	0.63	0.47	0.47	0.52	0.59	1.00	0.65	0.76	0.62	0.56		0.56	
31		0.47		0.52	0.58		0.65		0.61	0.56		0.56	
MEAN	0.77	0.55	0.48	0.48	0.59	*******	0.91	0.70	0.68	0.58	0.57	0.57	
MAX	0.94	0.65	0.54	0.65	1.08	2.18	1.48	0.79	0.75	0.61	0.60	0.57	2.18
MIN	0.60	0.47	0.47	0.46	0.42	*******	0.65	0.65	0.61	0.55	0.56	0.56	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.40 M (A.D). AT 12.00 HOURS, ON SEP 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.39 M (A.D)
LEFT BANK ELEVATION 6.01 M (A.D)
RIGHT BANK ELEVATION 4.41 M (A.D), DRAINAGE AREA 65 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.14	0.03	0.03	0.04	0.07	2.28	0.18	0.47	0.10	0.07	0.07	
2	0.04	0.16	0.03	0.02	0.05	0.18	2.28	0.18	0.47	0.10	0.07	0.07	
3	0.04	0.16	0.03	0.02	0.04	0.20	4.84	0.20	0.43	0.10	0.07	0.07	
4	0.04	0.18	0.03	0.02	0.03	0.10	13.48	0.20	0.43	0.08	0.07	0.07	
5	0.04	0.18	0.03	0.02	0.03	0.07	7.24	0.20	0.39	0.07	0.07	0.07	
6	0.04	0.16	0.03	0.02	0.02	0.05	2.65	0.20	0.36	0.07	0.08	0.07	
7	0.04	0.16	0.03	0.02	0.02	10.02	2.28	0.20	0.28	0.07	0.08	0.07	
8	0.04	0.16	0.03	0.02	0.02	62.80	2.28	0.20	0.28	0.07	0.06	0.07	
9	0.04	0.18	0.03	0.02	0.02	22.60	3.71	0.20	0.28	0.08	0.06	0.07	
10	0.04	0.18	0.03	0.02	0.90	*******	5.02	0.20	0.28	0.07	0.06	0.07	
11	0.04	0.16	0.03	0.02	0.02	*******	1.97	0.18	0.28	0.08	0.06	0.07	
12	0.04	0.16	0.03	0.02	0.02	*******	1.77	0.18	0.28	0.07	0.06	0.07	
13	0.04	0.12	0.03	0.02	0.01	*******	1.77	0.24	0.28	0.08	0.06	0.07	
14	0.26	0.06	0.03	0.03	0.01	*******	0.96	0.24	0.28	0.08	0.06	0.07	
15	0.26	0.04	0.04	0.02	0.01	*******	0.66	0.62	0.26	0.07	0.06	0.07	
16	0.18	0.03	0.03	0.02	0.01	*******	0.66	0.39	0.24	0.10	0.07	0.07	
17	0.14	0.03	0.06	0.02	0.06	*******	0.66	0.39	0.20	0.06	0.07	0.07	
18	0.10	0.03	0.03	0.02	0.51	*******	0.47	0.39	0.16	0.06	0.07	0.07	
19	0.10	0.03	0.03	0.02	0.08	*******	0.47	0.47	0.16	0.06	0.07	0.07	
20	0.10	0.03	0.03	0.02	0.14	*******	1.02	0.47	0.16	0.06	0.07	0.07	
21	0.10	0.03	0.03	0.02	0.07	*******	1.77	0.47	0.16	0.06	0.07	0.07	
22	0.10	0.03	0.03	0.02	0.47	2.18	1.87	0.43	0.16	0.06	0.07	0.07	
23	0.10	0.03	0.03	0.03	3.27	2.18	0.78	0.39	0.16	0.06	0.07	0.06	
24	0.10	0.03	0.03	0.07	2.18	2.18	0.47	0.36	0.14	0.06	0.07	0.06	
25	0.10	0.03	0.03	0.18	1.67	8.28	0.47	0.32	0.24	0.06	0.07	0.06	
26	0.10	0.03	0.03	0.04	0.39	4.65	0.47	0.32	0.24	0.06	0.07	0.06	
27	0.47	0.03	0.03	0.04	0.18	4.46	0.47	0.47	0.18	0.06	0.07	0.06	
28	0.08	0.03	0.03	0.04	0.10	3.52	0.28	0.58	0.18	0.06	0.07	0.06	
29	1.20	0.03	0.03	0.05	0.08	2.53	0.18	0.51	0.16	0.06	0.07	0.06	
30	0.14	0.03	0.03	0.05	0.08	2.28	0.18	0.51	0.12	0.06		0.06	
31		0.03		0.05	0.07		0.18		0.10	0.06		0.06	
TOTAL	4.15	2.68	0.94	1.01	10.60	*******	63.59	9.89	7.81	2.19	1.97	2.08	******** CMSDAY
MEAN	0.14	0.09	0.03	0.03	0.34	*******	2.05	0.33	0.25	0.07	0.07	0.07	******** CMS
MAX	1.20	0.18	0.06	0.18	3.27	62.80	13.48	0.62	0.47	0.10	0.08	0.07	62.80 CMS
MIN	0.04	0.03	0.03	0.02	0.01	*******	0.18	0.18	0.10	0.06	0.06	0.06	******** CMS
RUNOFF	0.359	0.232	0.081	0.087	0.916	*******	5.494	0.854	0.675	0.189	0.170	0.180	******** MCM

MOMENTARY PEAK 86.80 CMS. AT 2.40 M (A.D). AT 12.00 HOURS, ON SEP 8, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1335.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

HUAI NAM CHUN AT BAN FAI WANG BON, PHETCHABUN (S.17)

LOCATION — LAT. 16°-45'-43" N., LONG. 101°-08'-44" E., ON LEFT BANK NEAR THE BRIDGE OF PHITSANULOK-LOMSAK ROAD, BAN FAI WANG BON, AMPHOE LOM SAK, PHETCHABUN.

DRAINAGE AREA — 67 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +5.982 M. (A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

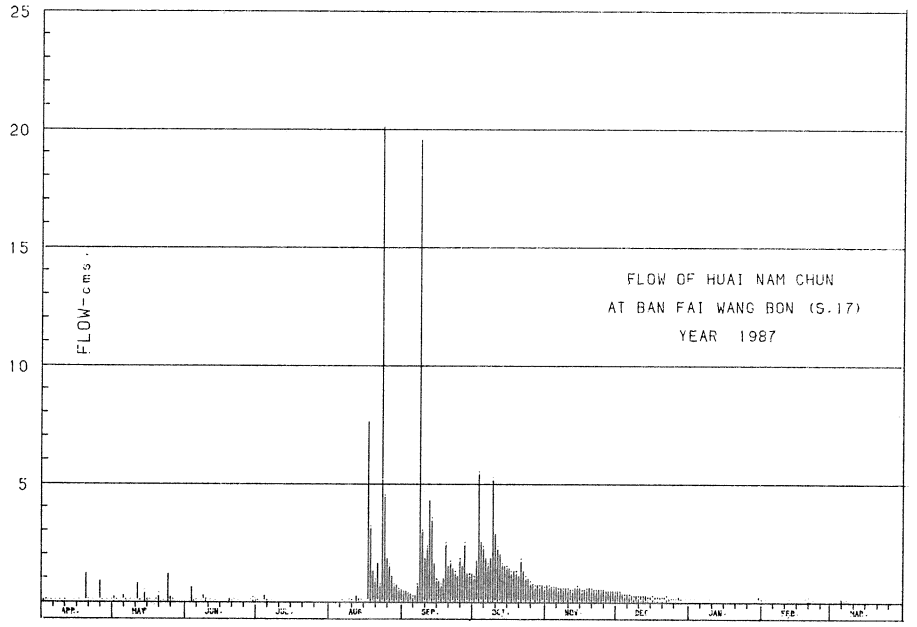
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.11	0.06	0.06	0.06	0.15	0.23	0.19	0.15	0.09	0.09	0.07	
2	0.08	0.08	0.08	0.06	0.06	0.15	0.29	0.19	0.15	0.09	0.08	0.07	
3	0.07	0.07	0.20	0.05	0.07	0.14	0.48	0.18	0.13	0.09	0.09	0.06	
4	0.06	0.09	0.07	0.12	0.04	0.13	0.34	0.18	0.13	0.09	0.08	0.07	
5	0.06	0.12	0.08	0.07	0.06	0.12	0.33	0.18	0.13	0.09	0.09	0.12	
6	0.06	0.08	0.07	0.06	0.06	0.12	0.30	0.17	0.13	0.08	0.09	0.09	
7	0.06	0.08	0.07	0.06	0.06	0.20	0.28	0.17	0.12	0.09	0.08	0.08	
8	0.06	0.07	0.12	0.06	0.06	0.83	0.30	0.17	0.12	0.09	0.07	0.07	
9	0.06	0.07	0.10	0.06	0.08	0.37	0.47	0.17	0.12	0.09	0.08	0.06	
10	0.06	0.08	0.08	0.06	0.07	0.30	0.36	0.17	0.12	0.08	0.08	0.05	
11	0.05	0.20	0.06	0.06	0.06	0.33	0.33	0.16	0.12	0.08	0.08	0.06	
12	0.05	0.07	0.06	0.06	0.14	0.43	0.31	0.16	0.12	0.08	0.09	0.06	
13	0.05	0.08	0.05	0.06	0.09	0.40	0.28	0.17	0.12	0.08	0.08	0.06	
14	0.06	0.16	0.05	0.05	0.08	0.28	0.27	0.19	0.11	0.08	0.09	0.06	
15	0.06	0.09	0.08	0.05	0.07	0.22	0.27	0.17	0.11	0.08	0.09	0.06	
16	0.07	0.08	0.07	0.05	0.10	0.21	0.26	0.16	0.12	0.08	0.10	0.05	
17	0.06	0.06	0.07	0.05	0.55	0.20	0.25	0.16	0.11	0.08	0.09	0.05	
18	0.07	0.05	0.06	0.05	0.38	0.22	0.25	0.17	0.11	0.08	0.08	0.04	
19	0.24	0.09	0.12	0.05	0.25	0.34	0.25	0.17	0.11	0.08	0.10	0.05	
20	0.10	0.14	0.07	0.05	0.22	0.27	0.23	0.17	0.11	0.08	0.11	0.06	
21	0.07	0.05	0.09	0.05	0.28	0.29	0.30	0.16	0.11	0.08	0.09	0.07	
22	0.08	0.06	0.07	0.04	0.20	0.26	0.25	0.16	0.12	0.08	0.07	0.06	
23	0.07	0.05	0.06	0.04	0.84	0.25	0.23	0.16	0.10	0.08	0.07	0.07	
24	0.08	0.25	0.05	0.04	0.44	0.23	0.22	0.16	0.10	0.08	0.07	0.07	
25	0.21	0.11	0.05	0.05	0.30	0.30	0.21	0.16	0.10	0.08	0.07	0.08	
26	0.07	0.09	0.05	0.05	0.28	0.27	0.20	0.15	0.10	0.08	0.07	0.08	
27	0.07	0.07	0.05	0.06	0.23	0.34	0.19	0.15	0.11	0.08	0.07	0.06	
28	0.07	0.06	0.08	0.04	0.20	0.24	0.19	0.15	0.09	0.08	0.06	0.06	
29	0.07	0.05	0.11	0.06	0.19	0.24	0.19	0.15	0.09	0.10	0.06	0.06	
30	0.07	0.08	0.10	0.04	0.17	0.24	0.19	0.15	0.10	0.11		0.05	
31		0.06		0.07	0.16		0.18		0.09	0.09		0.06	
MEAN	0.08	0.09	0.08	0.06	0.19	0.27	0.27	0.17	0.11	0.08	0.08	0.06	
MAX	0.24	0.25	0.20	0.12	0.84	0.83	0.48	0.19	0.15	0.11	0.11	0.12	0.84
MIN	0.05	0.05	0.05	0.04	0.04	0.12	0.18	0.15	0.09	0.08	0.06	0.04	0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.10 M (A.D), AT 6.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.11 M (A.D)
LEFT BANK ELEVATION — 7.26 M (A.D)
RIGHT BANK ELEVATION — 6.78 M (A.D), DRAINAGE AREA 67 SQUARE KILOMETERS



DISCHARGE. IN CUBIC METER PER SECOND. WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.105	0.213	0.090	0.090	0.090	0.465	1.101	0.717	0.465	0.135	0.135	0.105	
2	0.120	0.120	0.120	0.090	0.090	0.465	1.743	0.717	0.465	0.135	0.120	0.105	
3	0.105	0.105	0.780	0.075	0.105	0.402	5.516	0.654	0.339	0.135	0.135	0.090	
4	0.090	0.135	0.105	0.276	0.060	0.339	2.542	0.654	0.339	0.135	0.120	0.105	
5	0.090	0.276	0.120	0.105	0.090	0.276	2.369	0.654	0.339	0.135	0.135	0.276	
6	0.090	0.120	0.105	0.090	0.090	0.276	1.850	0.591	0.339	0.120	0.135	0.135	
7	0.090	0.120	0.105	0.090	0.090	0.780	1.636	0.591	0.276	0.135	0.120	0.120	
8	0.090	0.105	0.276	0.090	0.090	19.550	1.850	0.591	0.276	0.135	0.105	0.105	
9	0.090	0.105	0.150	0.090	0.120	3.061	5.274	0.591	0.276	0.135	0.120	0.090	
10	0.090	0.120	0.120	0.090	0.105	1.850	2.888	0.591	0.276	0.120	0.120	0.075	
11	0.075	0.780	0.090	0.090	0.090	2.369	2.369	0.528	0.276	0.120	0.120	0.090	
12	0.075	0.105	0.090	0.090	0.402	4.306	2.023	0.528	0.276	0.120	0.135	0.090	
13	0.075	0.120	0.075	0.090	0.135	3.580	1.636	0.591	0.276	0.120	0.120	0.090	
14	0.090	0.528	0.075	0.075	0.120	1.636	1.529	0.717	0.213	0.120	0.135	0.090	
15	0.090	0.135	0.120	0.075	0.105	0.994	1.529	0.591	0.213	0.120	0.135	0.090	
16	0.105	0.120	0.105	0.075	0.150	0.887	1.422	0.528	0.276	0.120	0.150	0.075	
17	0.090	0.090	0.105	0.075	7.620	0.780	1.315	0.528	0.213	0.120	0.135	0.075	
18	0.105	0.075	0.090	0.075	3.234	0.994	1.315	0.591	0.213	0.120	0.120	0.060	
19	1.208	0.135	0.276	0.075	1.315	2.542	1.315	0.591	0.213	0.120	0.150	0.075	
20	0.150	0.402	0.105	0.075	0.994	1.529	1.101	0.591	0.213	0.120	0.213	0.090	
21	0.105	0.075	0.135	0.075	1.636	1.743	1.850	0.528	0.213	0.120	0.135	0.105	
22	0.120	0.090	0.105	0.060	0.780	1.422	1.315	0.528	0.276	0.120	0.105	0.090	
23	0.105	0.075	0.090	0.060	20.100	1.315	1.101	0.528	0.150	0.120	0.105	0.105	
24	0.120	1.315	0.075	0.060	4.548	1.101	0.994	0.528	0.150	0.120	0.105	0.105	
25	0.887	0.213	0.075	0.075	1.850	1.850	0.887	0.528	0.150	0.120	0.105	0.120	
26	0.105	0.135	0.075	0.075	1.636	1.529	0.780	0.465	0.150	0.120	0.105	0.120	
27	0.105	0.105	0.075	0.090	1.101	2.542	0.717	0.465	0.213	0.120	0.105	0.090	
28	0.105	0.090	0.120	0.060	0.780	1.208	0.717	0.465	0.135	0.120	0.090	0.090	
29	0.105	0.075	0.213	0.090	0.717	1.208	0.717	0.465	0.135	0.150	0.090	0.090	
30	0.105	0.120	0.150	0.060	0.591	1.208	0.717	0.465	0.150	0.213		0.075	
31		0.090		0.105	0.528		0.654		0.135	0.135		0.090	
TOTAL	4.885	6.292	4.215	2.691	49.362	62.207	52.772	17.100	7.629	3.978	3.603	3.111	217.845 CMSDAY
MEAN	0.163	0.203	0.141	0.087	1.592	2.074	1.702	0.570	0.246	0.128	0.124	0.100	0.595 CMS
MAX	1.208	1.315	0.780	0.276	20.100	19.550	5.516	0.717	0.465	0.213	0.213	0.276	20.100 CMS
MIN	0.075	0.075	0.075	0.060	0.060	0.276	0.654	0.465	0.135	0.120	0.090	0.060	0.060 CMS
RUNOFF	0.422	0.544	0.364	0.233	4.265	5.375	4.560	1.477	0.659	0.344	0.311	0.269	18.822 MCM

MOMENTARY PEAK 37.10 CMS, AT 1.10 M (A.D). AT 6.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD 8.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 553.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

KHLONG BAN BONG AT BAN CHALIANG LAP, PHETCHABUN (S.22)

LOCATION — LAT. 16°-24'-32" N., LONG. 101°-17'-13" E., ON RIGHT BANK AT BAN CHALIANG LAP, TAMBON UA PA, AMPHOE MUANG, PHETCHABUN.

DRAINAGE AREA — 77 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +7.282 M.(A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1983 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

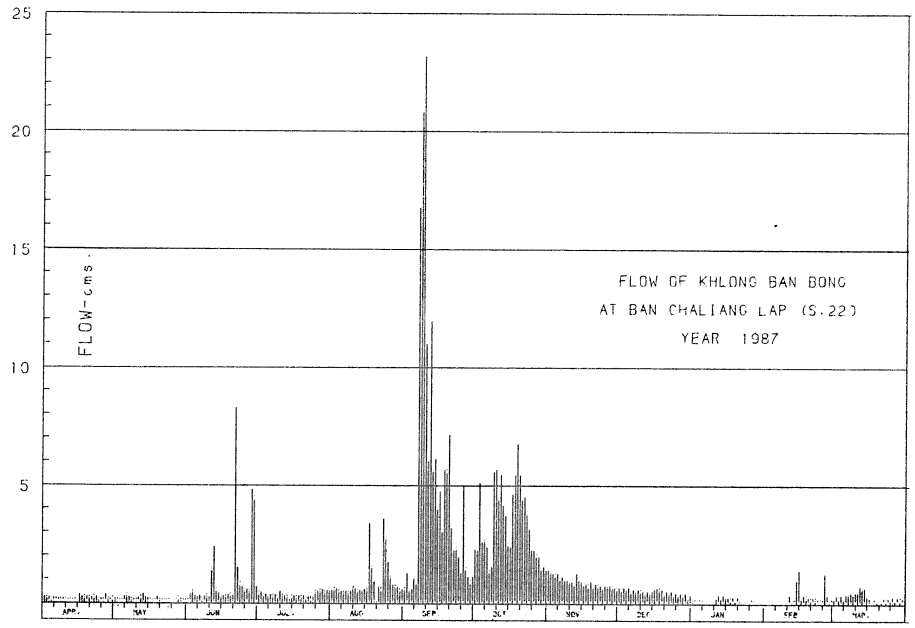
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.33	0.31	0.43	0.44	0.47	0.30	0.23	0.16	0.10	0.08	0.88	
2	0.35	0.32	0.39	0.42	0.47	0.54	0.29	0.23	0.16	0.10	0.08	0.88	
3	0.34	0.31	0.45	0.40	0.46	0.46	0.44	0.22	0.16	0.10	0.08	0.88	
4	0.33	0.31	0.37	0.39	0.45	0.45	0.31	0.22	0.16	0.10	0.10	0.88	
5	0.33	0.36	0.35	0.39	0.43	0.53	0.32	0.22	0.16	0.09	0.09	0.87	
6	0.32	0.40	0.37	0.39	0.43	0.50	0.30	0.21	0.15	0.09	0.09	0.90	
7	0.32	0.35	0.34	0.39	0.43	0.82	0.23	0.21	0.15	0.09	0.09	0.92	
8	0.32	0.33	0.36	0.39	0.43	0.92	0.24	0.21	0.15	0.09	0.08	0.91	
9	0.32	0.32	0.39	0.37	0.43	0.98	0.46	0.20	0.15	0.09	0.08	0.92	
10	0.32	0.31	0.35	0.43	0.48	0.65	0.46	0.20	0.15	0.08	0.08	0.91	
11	0.31	0.34	0.56	0.39	0.46	0.48	0.41	0.19	0.14	0.12	0.12	0.93	
12	0.31	0.38	0.62	0.37	0.45	0.68	0.45	0.19	0.14	0.12	0.10	0.95	
13	0.31	0.40	0.46	0.38	0.44	0.46	0.40	0.22	0.14	0.12	0.10	0.95	
14	0.31	0.34	0.41	0.31	0.46	0.48	0.37	0.21	0.14	0.12	0.21	0.94	
15	0.30	0.33	0.39	0.38	0.45	0.39	0.31	0.19	0.14	0.12	0.23	0.91	
16	0.43	0.32	0.37	0.37	0.46	0.42	0.30	0.19	0.17	0.11	0.12	0.84	
17	0.35	0.31	0.37	0.37	0.67	0.34	0.42	0.18	0.16	0.11	0.12	0.81	
18	0.37	0.31	0.39	0.37	0.57	0.46	0.45	0.18	0.16	0.11	0.12	0.83	
19	0.35	0.35	0.41	0.37	0.51	0.46	0.51	0.19	0.15	0.11	0.11	0.84	
20	0.36	0.32	0.37	0.37	0.50	0.52	0.45	0.18	0.14	0.11	0.11	0.74	
21	0.34	0.31	0.84	0.36	0.48	0.35	0.41	0.18	0.14	0.08	0.11	0.81	
22	0.38	0.31	0.56	0.35	0.47	0.29	0.41	0.18	0.14	0.08	0.11	0.84	
23	0.35	0.31	0.51	0.35	0.68	0.30	0.38	0.17	0.14	0.08	0.10	0.84	
24	0.33	0.31	0.48	0.35	0.64	0.27	0.33	0.17	0.13	0.08	0.10	0.84	
25	0.32	0.30	0.46	0.44	0.58	0.23	0.30	0.17	0.13	0.10	0.10	0.86	
26	0.32	0.30	0.45	0.43	0.53	0.43	0.29	0.18	0.13	0.10	0.23	0.86	
27	0.39	0.31	0.45	0.45	0.50	0.24	0.28	0.17	0.13	0.09	0.12	0.86	
28	0.34	0.36	0.73	0.45	0.50	0.21	0.27	0.17	0.13	0.09	0.10	0.85	
29	0.32	0.32	0.72	0.44	0.48	0.20	0.24	0.16	0.13	0.08	0.10	0.85	
30	0.35	0.31	0.48	0.44	0.46	0.21	0.24	0.16	0.12	0.08		0.84	
31		0.31		0.46	0.45		0.24		0.12	0.08		0.84	
MEAN	0.34	0.33	0.46	0.39	0.49	0.46	0.35	0.19	0.14	0.10	0.11	0.87	
MAX	0.43	0.40	0.84	0.46	0.68	0.98	0.51	0.23	0.17	0.12	0.23	0.95	0.98
MIN	0.30	0.30	0.31	0.31	0.43	0.20	0.23	0.16	0.12	0.08	0.08	0.74	0.08

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.13 M (A.D), AT 22.00 HOURS, ON JUN 28, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.48 M (A.D)

LEFT BANK ELEVATION — 3.82 M (A.D)

RIGHT BANK ELEVATION — 5.52 M (A.D), DRAINAGE AREA — 77 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.23	0.18	0.52	0.56	0.68	2.40	1.42	0.68	0.20	0.12	0.35	
2	0.28	0.20	0.38	0.48	0.68	1.28	2.26	1.42	0.68	0.20	0.12	0.35	
3	0.25	0.18	0.60	0.40	0.64	0.64	5.22	1.28	0.68	0.20	0.12	0.35	
4	0.23	0.18	0.33	0.38	0.60	0.60	2.59	1.28	0.68	0.20	0.20	0.35	
5	0.23	0.30	0.28	0.38	0.52	1.16	2.78	1.28	0.68	0.16	0.16	0.33	
6	0.20	0.40	0.33	0.38	0.52	0.80	2.40	1.14	0.60	0.16	0.16	0.40	
7	0.20	0.28	0.25	0.38	0.52	16.88	1.42	1.14	0.60	0.16	0.16	0.54	
8	0.20	0.23	0.30	0.38	0.52	20.82	1.56	1.14	0.60	0.16	0.12	0.47	
9	0.20	0.20	0.38	0.33	0.52	23.28	5.68	1.00	0.60	0.16	0.12	0.54	
10	0.20	0.18	0.28	0.52	0.72	11.00	5.68	1.00	0.60	0.12	0.12	0.47	
11	0.18	0.25	1.52	0.38	0.64	6.14	4.53	0.92	0.52	0.36	0.36	0.61	
12	0.18	0.35	2.40	0.33	0.60	11.96	5.45	0.92	0.52	0.36	0.20	0.75	
13	0.18	0.40	0.64	0.35	0.56	5.68	4.30	1.28	0.52	0.36	0.20	0.75	
14	0.18	0.25	0.44	0.18	0.64	6.14	3.73	1.14	0.52	0.36	1.14	0.68	
15	0.15	0.23	0.38	0.35	0.60	4.11	2.59	0.92	0.52	0.36	1.42	0.47	
16	0.52	0.20	0.33	0.33	0.64	4.76	2.40	0.92	0.76	0.28	0.36	0.25	
17	0.28	0.18	0.33	0.33	3.40	3.16	4.76	0.84	0.68	0.28	0.36	0.18	
18	0.33	0.18	0.38	0.33	1.64	5.68	5.45	0.84	0.68	0.28	0.36	0.23	
19	0.28	0.28	0.44	0.33	0.92	5.68	6.88	0.92	0.60	0.28	0.28	0.25	
20	0.30	0.20	0.33	0.33	0.08	7.16	5.45	0.84	0.52	0.28	0.28	0.06	
21	0.25	0.18	8.40	0.30	0.72	3.35	4.53	0.84	0.52	0.12	0.28	0.18	
22	0.35	0.18	1.52	0.28	0.68	2.26	4.53	0.84	0.52	0.12	0.28	0.25	
23	0.28	0.18	0.92	0.28	3.60	2.40	3.92	0.76	0.52	0.12	0.20	0.25	
24	0.23	0.18	0.72	0.28	2.80	1.98	3.16	0.76	0.44	0.12	0.20	0.25	
25	0.20	0.15	0.64	0.56	1.76	1.42	2.40	0.76	0.44	0.20	0.20	0.30	
26	0.20	0.15	0.60	0.52	1.16	4.99	2.26	0.84	0.44	0.20	1.42	0.30	
27	0.38	0.18	0.60	0.60	0.80	1.56	2.12	0.76	0.44	0.16	0.36	0.30	
28	0.25	0.30	4.84	0.60	0.80	1.14	1.98	0.76	0.44	0.16	0.20	0.28	
29	0.20	0.20	4.56	0.56	0.72	1.00	1.56	0.68	0.44	0.12	0.20	0.28	
30	0.28	0.18	0.72	0.56	0.64	1.14	1.56	0.68	0.36	0.12		0.25	
31		0.18		0.64	0.60		1.56		0.36	0.12		0.25	
TOTAL	7.47	6.96	34.02	12.57	29.80	158.85	107.11	29.32	17.16	6.48	9.70	11.27	430.71 CMSDAY
MEAN	0.25	0.22	1.13	0.41	0.96	5.29	3.46	0.98	0.55	0.21	0.33	0.36	1.18 CMS
MAX	0.52	0.40	8.40	0.64	3.60	23.28	6.88	1.42	0.76	0.36	1.42	0.75	23.28 CMS
MIN	0.15	0.15	0.18	0.18	0.08	0.60	1.42	0.68	0.36	0.12	0.12	0.06	0.06 CMS
RUNOFF	0.645	0.601	2.939	1.086	2.575	13.725	9.254	2.533	1.483	0.560	0.838	0.974	37.213 MCM

MOMENTARY PEAK 95.27 CMS, AT 2.13 M (A.D), AT 22.00 HOURS, ON JUN 28, 1987
RUNOFF YIELD 15.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1237.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

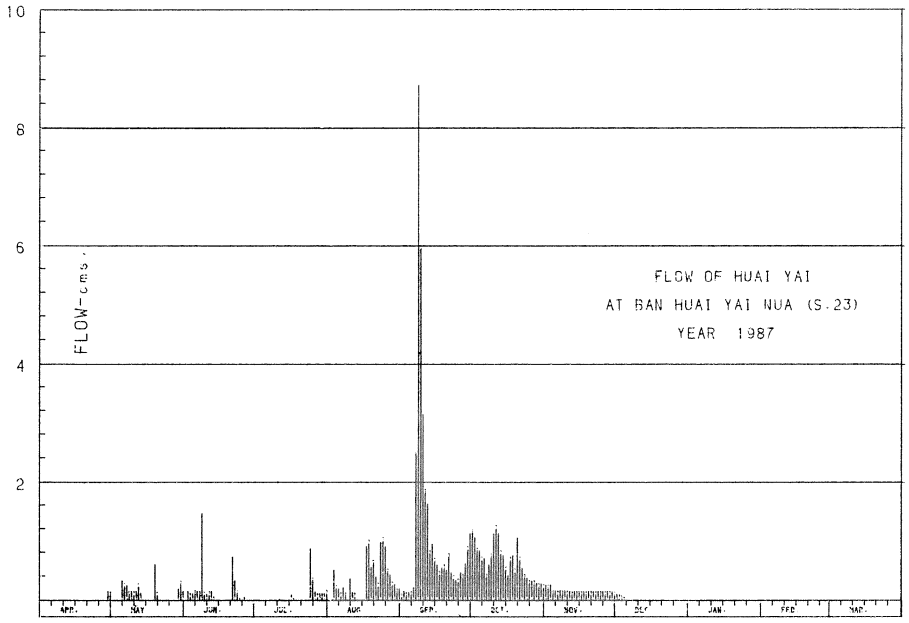
HUAI YAI AT BAN HUAI YAI NUA, PHETCHABUN (S.23)

LOCATION	LAT. 16°-28'-10" N., LONG. 101°-18'-17" E., ON LEFT BANK AT THE BRIDGE OF HUAI YAI, TAMBON HUAI YAI, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	20 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 12 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+2.598 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +2.06 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.25	-0.25	-0.25	-0.22	-0.17	0.05	0.40	0.04	-0.08	-0.25	-0.25	-0.25	
2	-0.25	-0.25	0.10	-0.22	-0.11	0.10	0.36	0.04	-0.09	-0.25	-0.25	-0.25	
3	-0.25	-0.25	0.07	-0.25	0.26	0.08	0.31	0.04	-0.10	-0.25	-0.25	-0.25	
4	-0.25	-0.25	0.06	-0.25	0.15	0.08	0.30	-0.03	-0.15	-0.25	-0.25	-0.25	
5	-0.25	0.19	0.11	-0.25	0.12	0.10	0.26	-0.03	-0.20	-0.25	-0.25	-0.25	
6	-0.25	0.17	0.10	-0.25	0.08	0.13	0.25	-0.03	-0.25	-0.25	-0.25	-0.25	
7	-0.25	0.15	0.10	-0.25	0.13	0.75	0.14	-0.03	-0.25	-0.25	-0.25	-0.25	
8	-0.25	0.10	0.51	-0.25	0.08	1.80	0.21	-0.03	-0.25	-0.25	-0.25	-0.25	
9	-0.25	0.10	0.09	-0.25	-0.11	1.41	0.28	-0.03	-0.25	-0.25	-0.25	-0.25	
10	-0.25	0.10	0.04	-0.25	0.22	0.90	0.38	-0.03	-0.25	-0.25	-0.25	-0.25	
11	-0.25	0.10	0.10	-0.06	0.08	0.59	0.42	-0.04	-0.25	-0.25	-0.25	-0.25	
12	-0.25	0.17	0.10	-0.23	0.07	0.52	0.38	-0.04	-0.25	-0.25	-0.25	-0.25	
13	-0.25	0.07	0.00	-0.25	-0.06	0.30	0.30	-0.04	-0.25	-0.25	-0.25	-0.25	
14	-0.25	-0.25	-0.10	-0.25	-0.21	0.33	0.27	-0.04	-0.25	-0.25	-0.25	-0.25	
15	-0.25	-0.25	-0.10	-0.13	-0.20	0.25	0.20	-0.04	-0.25	-0.25	-0.25	-0.25	
16	-0.25	-0.25	-0.10	0.03	-0.20	0.21	0.13	-0.04	-0.25	-0.25	-0.25	-0.25	
17	-0.25	-0.25	-0.10	-0.08	0.38	0.16	0.26	-0.04	-0.25	-0.25	-0.25	-0.25	
18	-0.25	-0.25	-0.20	-0.10	0.41	0.19	0.27	-0.04	-0.25	-0.25	-0.25	-0.25	
19	-0.25	0.30	-0.20	-0.25	0.28	0.21	0.18	-0.04	-0.25	-0.25	-0.25	-0.25	
20	-0.25	0.09	-0.18	-0.25	0.32	0.17	0.36	-0.04	-0.25	-0.25	-0.25	-0.25	
21	-0.25	-0.25	0.34	-0.25	0.22	0.28	0.26	-0.04	-0.25	-0.25	-0.25	-0.25	
22	-0.25	-0.25	0.19	-0.25	0.17	0.15	0.19	-0.04	-0.25	-0.25	-0.25	-0.25	
23	-0.25	-0.25	0.11	-0.25	0.40	0.13	0.14	-0.04	-0.25	-0.25	-0.25	-0.25	
24	-0.25	-0.25	-0.04	0.37	0.42	0.09	0.11	-0.04	-0.25	-0.25	-0.25	-0.25	
25	-0.25	-0.25	-0.20	0.21	0.38	0.10	0.09	-0.04	-0.25	-0.25	-0.25	-0.25	
26	-0.25	-0.25	-0.03	0.09	0.27	0.15	0.08	-0.04	-0.25	-0.25	-0.25	-0.25	
27	-0.25	-0.25	-0.22	0.06	0.23	0.14	0.08	-0.04	-0.25	-0.25	-0.25	-0.25	
28	-0.25	-0.25	-0.23	0.05	0.18	0.22	0.06	-0.04	-0.25	-0.25	-0.25	-0.25	
29	0.10	0.12	-0.23	0.05	0.16	0.32	0.05	-0.05	-0.25	-0.25	-0.25	-0.25	
30	0.09	0.19	-0.23	0.06	0.12	0.38	0.05	-0.05	-0.25	-0.25		-0.25	
31		0.10		0.11	0.12		0.04		-0.25	-0.25		-0.25	
MEAN	-0.23	-0.07	-0.01	-0.12	0.14	0.34	0.22	-0.03	-0.23	-0.25	-0.25	-0.25	
MAX	0.10	0.30	0.51	0.37	0.42	1.80	0.42	0.04	-0.08	-0.25	-0.25	-0.25	1.80
MIN	-0.25	-0.25	-0.25	-0.25	-0.21	0.05	0.04	-0.05	-0.25	-0.25	-0.25	-0.25	-0.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.00 M (A.D), AT 5.00 HOURS, ON SEP 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.27 M (A.D)
LEFT BANK ELEVATION 2.39 M (A.D)
RIGHT BANK ELEVATION 2.05 M (A.D), DRAINAGE AREA 20 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.01	0.11	1.20	0.26	0.10	0.00	0.00	0.00	
2	0.00	0.00	0.15	0.00	0.02	0.15	1.06	0.26	0.09	0.00	0.00	0.00	
3	0.00	0.00	0.12	0.00	0.51	0.13	0.88	0.26	0.08	0.00	0.00	0.00	
4	0.00	0.00	0.11	0.00	0.25	0.13	0.84	0.16	0.05	0.00	0.00	0.00	
5	0.00	0.33	0.17	0.00	0.19	0.15	0.73	0.16	0.02	0.00	0.00	0.00	
6	0.00	0.29	0.15	0.00	0.13	0.21	0.71	0.16	0.00	0.00	0.00	0.00	
7	0.00	0.25	0.15	0.00	0.21	2.50	0.44	0.16	0.00	0.00	0.00	0.00	
8	0.00	0.15	1.47	0.00	0.13	8.72	0.60	0.16	0.00	0.00	0.00	0.00	
9	0.00	0.15	0.14	0.00	0.02	5.99	0.79	0.16	0.00	0.00	0.00	0.00	
10	0.00	0.15	0.10	0.00	0.40	3.15	1.13	0.16	0.00	0.00	0.00	0.00	
11	0.00	0.15	0.15	0.04	0.13	1.88	1.27	0.15	0.00	0.00	0.00	0.00	
12	0.00	0.29	0.15	0.00	0.12	1.63	1.13	0.15	0.00	0.00	0.00	0.00	
13	0.00	0.12	0.06	0.00	0.04	0.84	0.84	0.15	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.02	0.00	0.00	0.95	0.76	0.15	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.02	0.02	0.01	0.71	0.57	0.15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.02	0.09	0.01	0.60	0.42	0.15	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.02	0.03	0.91	0.49	0.73	0.15	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.01	0.02	1.02	0.55	0.76	0.15	0.00	0.00	0.00	0.00	
19	0.00	0.61	0.01	0.00	0.56	0.60	0.53	0.15	0.00	0.00	0.00	0.00	
20	0.00	0.14	0.01	0.00	0.68	0.51	1.06	0.15	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.76	0.00	0.40	0.79	0.73	0.15	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.33	0.00	0.29	0.47	0.55	0.15	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.17	0.00	0.98	0.42	0.44	0.15	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.04	0.87	1.06	0.34	0.38	0.15	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.01	0.38	0.91	0.36	0.34	0.15	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.05	0.14	0.53	0.47	0.33	0.15	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.11	0.43	0.44	0.33	0.15	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.11	0.31	0.62	0.29	0.15	0.00	0.00	0.00	0.00	
29	0.15	0.19	0.00	0.11	0.27	0.91	0.28	0.14	0.00	0.00	0.00	0.00	
30	0.14	0.33	0.00	0.11	0.19	1.13	0.28	0.14	0.00	0.00		0.00	
31		0.15		0.17	0.19		0.26		0.00	0.00		0.00	
TOTAL	0.29	3.30	4.39	2.20	10.91	35.95	20.66	4.88	0.34	0.00	0.00	0.00	82.92 CMSDAY
MEAN	0.01	0.11	0.15	0.07	0.35	1.20	0.67	0.16	0.01	0.00	0.00	0.00	0.23 CMS
MAX	0.15	0.61	1.47	0.87	1.06	8.72	1.27	0.26	0.10	0.00	0.00	0.00	8.72 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.11	0.26	0.14	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.025	0.285	0.379	0.190	0.943	3.106	1.785	0.422	0.029	0.000	0.000	0.000	7.164 MCM

MOMENTARY PEAK 20.00 CMS. AT 3.00 M (A.D). AT 5.00 HOURS, ON SEP 8, 1987
RUNOFF YIELD 11.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1000.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

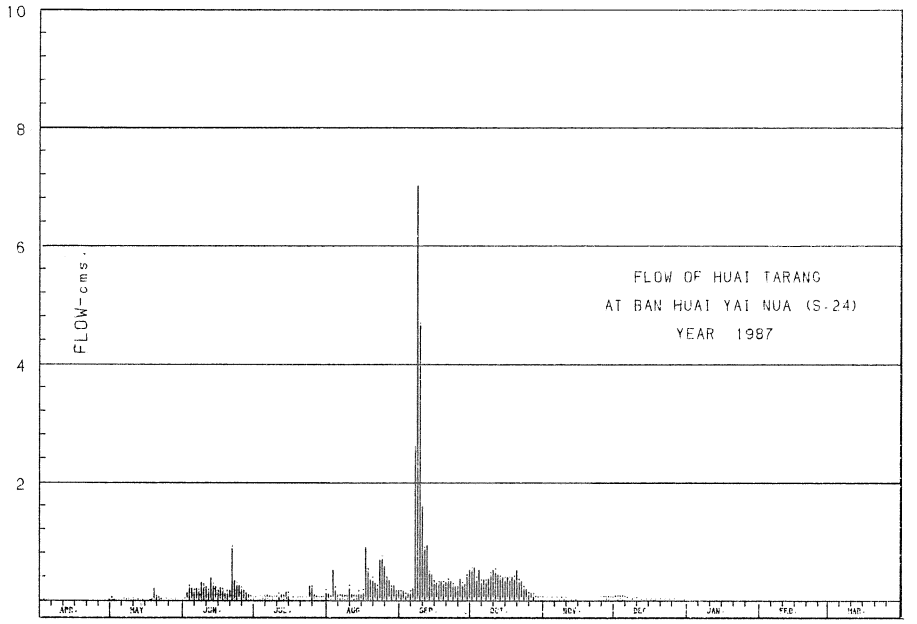
HUAI TARANG AT BAN HUAI YAI NUA, PHETCHABUN (S.24)

LOCATION	LAT. 16°-28'-30" N., LONG. 101°-18'-24" E., ON LEFT BANK AT THE BRIDGE OF HUAI TARANG, TAMBON HUAI YAI, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	79 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 10.00 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.232 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +1.67 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.54	0.50	0.54	0.61	0.65	0.88	0.54	0.58	0.40	0.40	0.40	
2	0.45	0.45	0.62	0.54	0.57	0.64	0.88	0.54	0.58	0.40	0.40	0.40	
3	0.45	0.45	0.71	0.57	0.86	0.62	0.80	0.54	0.58	0.40	0.40	0.40	
4	0.45	0.50	0.67	0.54	0.69	0.61	0.86	0.54	0.58	0.40	0.40	0.40	
5	0.45	0.50	0.66	0.58	0.59	0.65	0.77	0.54	0.57	0.40	0.40	0.40	
6	0.45	0.50	0.67	0.59	0.60	0.67	0.77	0.54	0.54	0.40	0.40	0.40	
7	0.45	0.50	0.66	0.57	0.60	1.48	0.77	0.54	0.52	0.40	0.40	0.40	
8	0.45	0.50	0.74	0.55	0.58	2.19	0.78	0.54	0.50	0.40	0.40	0.40	
9	0.45	0.50	0.72	0.56	0.59	1.85	0.84	0.54	0.52	0.40	0.40	0.40	
10	0.40	0.50	0.69	0.57	0.71	1.24	0.86	0.54	0.54	0.40	0.40	0.40	
11	0.40	0.50	0.66	0.62	0.60	1.03	0.87	0.50	0.51	0.40	0.40	0.40	
12	0.40	0.48	0.79	0.60	0.59	1.04	0.82	0.50	0.50	0.40	0.40	0.40	
13	0.40	0.45	0.73	0.59	0.59	0.85	0.81	0.50	0.50	0.50	0.40	0.40	
14	0.40	0.47	0.69	0.63	0.65	0.82	0.80	0.50	0.50	0.50	0.40	0.40	
15	0.40	0.43	0.65	0.63	0.59	0.76	0.80	0.40	0.50	0.50	0.40	0.40	
16	0.40	0.40	0.68	0.54	0.66	0.73	0.80	0.40	0.50	0.50	0.40	0.40	
17	0.40	0.46	0.67	0.54	1.03	0.75	0.80	0.40	0.50	0.50	0.40	0.40	
18	0.40	0.48	0.61	0.54	0.87	0.75	0.80	0.40	0.50	0.50	0.40	0.40	
19	0.40	0.67	0.65	0.54	0.77	0.75	0.81	0.40	0.50	0.40	0.40	0.40	
20	0.40	0.58	0.65	0.54	0.80	0.74	0.86	0.40	0.50	0.40	0.40	0.40	
21	0.40	0.54	1.04	0.54	0.73	0.78	0.78	0.40	0.50	0.40	0.40	0.40	
22	0.40	0.49	0.76	0.54	0.71	0.75	0.75	0.40	0.50	0.40	0.40	0.40	
23	0.40	0.49	0.74	0.54	0.94	0.73	0.70	0.40	0.50	0.40	0.40	0.40	
24	0.40	0.50	0.70	0.70	0.97	0.69	0.66	0.50	0.50	0.43	0.40	0.40	
25	0.40	0.50	0.69	0.70	0.89	0.69	0.63	0.55	0.50	0.45	0.40	0.40	
26	0.40	0.50	0.65	0.60	0.80	0.78	0.62	0.56	0.50	0.45	0.40	0.40	
27	0.40	0.50	0.62	0.56	0.76	0.74	0.62	0.56	0.50	0.40	0.40	0.40	
28	0.40	0.50	0.60	0.54	0.70	0.72	0.57	0.56	0.50	0.49	0.40	0.40	
29	0.40	0.48	0.58	0.55	0.70	0.82	0.55	0.55	0.49	0.49	0.40	0.40	
30	0.54	0.48	0.54	0.55	0.65	0.86	0.55	0.54	0.46	0.46		0.40	
31		0.49		0.66	0.65		0.55		0.40	0.44		0.40	
MEAN	0.42	0.49	0.68	0.58	0.71	0.88	0.75	0.49	0.51	0.43	0.40	0.40	
MAX	0.54	0.67	1.04	0.70	1.03	2.19	0.88	0.56	0.58	0.50	0.40	0.40	2.19
MIN	0.40	0.40	0.50	0.54	0.57	0.61	0.55	0.40	0.40	0.40	0.40	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.30 M (A.D), AT 5.00 HOURS, ON SEP 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.12 M (A.D)
LEFT BANK ELEVATION 1.67 M (A.D)
RIGHT BANK ELEVATION 1.66 M (A.D), DRAINAGE AREA 79 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.020	0.064	0.040	0.064	0.115	0.175	0.560	0.064	0.088	0.000	0.000	0.000	
2	0.020	0.020	0.130	0.064	0.082	0.160	0.560	0.064	0.088	0.000	0.000	0.000	
3	0.020	0.020	0.265	0.082	0.520	0.130	0.400	0.064	0.088	0.000	0.000	0.000	
4	0.020	0.040	0.205	0.064	0.235	0.115	0.520	0.064	0.088	0.000	0.000	0.000	
5	0.020	0.040	0.190	0.088	0.094	0.175	0.355	0.064	0.082	0.000	0.000	0.000	
6	0.020	0.040	0.205	0.094	0.100	0.205	0.355	0.064	0.064	0.000	0.000	0.000	
7	0.020	0.040	0.190	0.082	0.100	2.610	0.355	0.064	0.052	0.000	0.000	0.000	
8	0.020	0.040	0.310	0.070	0.088	7.025	0.370	0.064	0.040	0.000	0.000	0.000	
9	0.020	0.040	0.280	0.076	0.094	4.700	0.480	0.064	0.052	0.000	0.000	0.000	
10	0.000	0.040	0.235	0.082	0.265	1.592	0.520	0.064	0.064	0.000	0.000	0.000	
11	0.000	0.040	0.190	0.130	0.100	0.904	0.540	0.040	0.046	0.000	0.000	0.000	
12	0.000	0.032	0.385	0.100	0.094	0.932	0.440	0.040	0.040	0.000	0.000	0.000	
13	0.000	0.020	0.295	0.094	0.094	0.500	0.420	0.040	0.040	0.040	0.000	0.000	
14	0.000	0.028	0.235	0.145	0.175	0.440	0.400	0.040	0.040	0.040	0.000	0.000	
15	0.000	0.012	0.175	0.145	0.094	0.340	0.400	0.000	0.040	0.040	0.000	0.000	
16	0.000	0.000	0.220	0.064	0.190	0.295	0.400	0.000	0.040	0.040	0.000	0.000	
17	0.000	0.024	0.205	0.064	0.904	0.325	0.400	0.000	0.040	0.040	0.000	0.000	
18	0.000	0.032	0.115	0.064	0.540	0.325	0.400	0.000	0.040	0.040	0.000	0.000	
19	0.000	0.205	0.175	0.064	0.355	0.325	0.420	0.000	0.040	0.000	0.000	0.000	
20	0.000	0.088	0.175	0.064	0.400	0.310	0.520	0.000	0.040	0.000	0.000	0.000	
21	0.000	0.064	0.932	0.064	0.295	0.370	0.370	0.000	0.040	0.000	0.000	0.000	
22	0.000	0.036	0.340	0.064	0.265	0.325	0.325	0.000	0.040	0.000	0.000	0.000	
23	0.000	0.036	0.310	0.064	0.688	0.295	0.250	0.000	0.040	0.000	0.000	0.000	
24	0.000	0.040	0.250	0.250	0.754	0.235	0.190	0.040	0.040	0.012	0.000	0.000	
25	0.000	0.040	0.235	0.250	0.580	0.235	0.145	0.070	0.040	0.020	0.000	0.000	
26	0.000	0.040	0.175	0.100	0.400	0.370	0.130	0.076	0.040	0.020	0.000	0.000	
27	0.000	0.040	0.130	0.076	0.340	0.310	0.130	0.076	0.040	0.000	0.000	0.000	
28	0.000	0.040	0.100	0.064	0.250	0.280	0.082	0.076	0.040	0.036	0.000	0.000	
29	0.000	0.032	0.088	0.070	0.250	0.440	0.070	0.070	0.036	0.036	0.000	0.000	
30	0.064	0.032	0.064	0.070	0.175	0.520	0.070	0.064	0.024	0.024		0.000	
31		0.036		0.190	0.175		0.070		0.000	0.016		0.000	
TOTAL	0.244	1.301	6.844	2.962	8.811	24.963	10.647	1.272	1.492	0.404	0.000	0.000	58.940 CMSDAY
MEAN	0.008	0.042	0.228	0.096	0.284	0.832	0.343	0.042	0.048	0.013	0.000	0.000	0.161 CMS
MAX	0.064	0.205	0.932	0.250	0.904	7.025	0.560	0.076	0.088	0.040	0.000	0.000	7.025 CMS
MIN	0.000	0.000	0.040	0.064	0.082	0.115	0.070	0.000	0.000	0.000	0.000	0.000	0.000 CMS
RUNOFF	0.021	0.112	0.591	0.256	0.761	2.157	0.920	0.110	0.129	0.035	0.000	0.000	5.092 MCM

MOMENTARY PEAK 18.40 CMS. AT 3.30 M (A.D), AT 5.00 HOURS, ON SEP 8, 1987

RUNOFF YIELD 2.04 LITERS/SECOND/SQUARE KM. MOMENTARY PEAK YIELD 232.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHAO PHRAYA RIVER BASIN

PASAK RIVER AT THA RUA, PHRA NAKHON SI AYUTTHAYA (S.26)

LOCATION — LAT. 14°-33'-22" N., LONG. 100°-43'-38" E., ON RIGHT BANK AT THE RAILWAY BRIDGE, AMPHOE THA RUA, PHRA NAKHON SI AYUTTHAYA.

DRAINAGE AREA — FLOOD PLAIN.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 10 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +9.710 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 — 1984 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1985 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1985 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

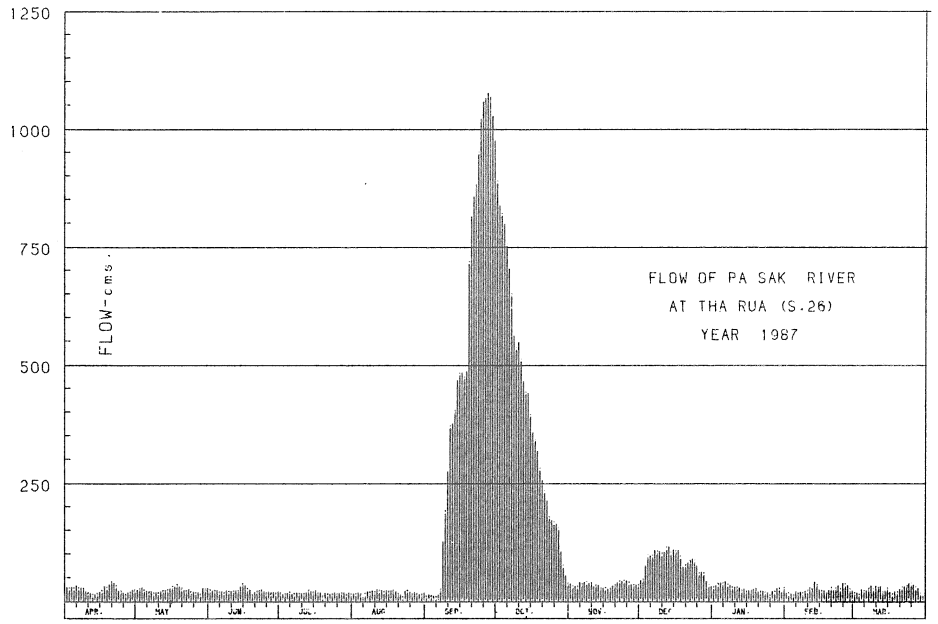
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +9.50 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.10	2.92	2.95	2.79	2.70	2.59	10.50	3.30	3.47	3.15	2.74	2.80	
2	3.08	3.05	2.88	2.67	2.73	2.65	10.20	3.19	3.54	3.21	2.78	2.77	
3	3.10	3.08	2.93	2.72	2.77	2.61	10.10	3.16	3.98	3.32	2.71	2.71	
4	3.08	2.96	2.92	2.74	2.72	2.57	9.97	3.18	4.31	3.35	2.66	2.98	
5	3.19	2.88	2.83	2.83	2.49	2.56	9.71	3.37	4.28	3.36	2.85	2.92	
6	3.08	2.84	2.84	2.66	2.75	2.62	9.36	3.30	4.30	3.42	2.76	2.90	
7	3.06	2.87	2.77	2.74	2.83	3.01	9.01	3.38	4.44	3.30	2.81	3.06	
8	3.05	2.79	2.89	2.76	2.83	4.67	8.42	3.41	4.42	3.22	2.78	3.18	
9	2.84	2.80	2.87	2.74	2.88	5.42	8.24	3.31	4.41	3.12	2.87	3.03	
10	2.79	2.79	2.87	2.72	2.86	6.20	8.32	3.35	4.37	3.11	2.94	3.17	
11	2.74	2.84	2.89	2.74	2.98	7.02	8.07	3.14	4.38	3.12	3.10	3.11	
12	2.68	2.91	2.88	2.77	2.93	7.05	7.73	3.24	4.52	3.06	3.01	3.16	
13	2.65	2.92	2.91	2.93	2.90	7.27	7.56	3.22	4.53	2.93	3.40	2.83	
14	2.75	2.98	3.13	2.84	2.87	7.75	7.54	3.08	4.39	3.00	3.29	2.87	
15	2.80	3.02	3.31	2.82	2.91	7.86	7.20	3.05	4.45	2.88	2.94	3.09	
16	2.93	3.16	3.19	2.91	2.87	7.86	6.90	3.09	4.43	2.89	2.93	2.80	
17	3.15	3.12	3.04	2.76	2.89	7.80	6.78	2.99	4.44	2.93	2.90	2.74	
18	3.11	3.28	2.93	2.77	2.93	7.88	6.58	3.04	4.28	2.98	2.78	2.84	
19	3.24	3.14	2.67	2.60	2.84	9.46	6.27	3.18	3.94	3.05	2.92	2.86	
20	3.42	3.07	2.79	2.74	2.74	10.06	6.04	3.26	4.02	2.81	3.11	2.98	
21	3.34	2.92	2.88	2.73	2.64	10.34	5.84	3.35	4.08	2.88	2.91	3.14	
22	3.23	2.93	2.92	2.68	2.55	10.46	5.63	3.47	4.14	2.87	3.08	3.14	
23	2.88	2.97	2.95	2.71	2.86	10.86	5.28	3.43	4.19	2.83	3.19	3.23	
24	2.90	2.86	2.82	2.77	2.94	11.26	5.19	3.49	4.16	2.77	3.05	3.32	
25	2.77	2.81	2.78	2.73	2.80	11.48	5.16	3.47	3.98	2.65	3.34	3.34	
26	2.71	2.80	2.82	2.73	2.71	11.49	5.10	3.39	3.78	2.85	3.30	3.24	
27	2.78	2.78	2.77	2.78	2.79	11.57	5.03	3.24	3.80	2.89	3.21	3.14	
28	2.83	2.71	2.80	2.78	2.74	11.50	4.40	3.25	3.78	3.03	3.02	3.04	
29	2.93	3.03	2.76	2.69	2.65	11.32	4.00	3.23	3.43	3.06	2.89	2.77	
30	2.97	3.00	2.82	2.76	2.70	11.00	3.67	3.26	3.26	2.79		2.57	
31		3.03		2.70	2.77		3.34		3.14	3.11		2.68	
MEAN	2.97	2.94	2.89	2.75	2.79	7.54	7.00	3.26	4.09	3.03	2.97	2.98	
MAX	3.42	3.28	3.31	2.93	2.98	11.57	10.50	3.49	4.53	3.42	3.40	3.34	11.57
MIN	2.65	2.71	2.67	2.60	2.49	2.56	3.34	2.99	3.14	2.65	2.66	2.57	2.49

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.58 M (A.D), AT 9.00 HOURS, ON SEP 27, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.23 M (A.D)
LEFT BANK ELEVATION 10.70 M (A.D)
RIGHT BANK ELEVATION 9.49 M (A.D), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	30.5	24.2	25.2	19.6	16.5	12.6	890.0	38.0	44.8	32.3	17.9	20.0	
2	29.8	28.7	22.8	15.5	17.5	14.8	838.4	33.7	48.0	34.4	19.3	18.9	
3	30.5	29.8	24.6	17.2	18.9	13.3	821.2	32.6	75.6	38.8	16.8	16.8	
4	29.8	25.6	24.2	17.9	17.2	11.9	799.5	33.3	99.1	40.0	15.1	26.3	
5	33.7	22.8	21.0	21.0	9.1	11.6	758.0	40.8	97.0	40.4	21.7	24.2	
6	29.8	21.4	21.4	15.1	18.2	13.7	704.3	38.0	98.4	42.8	18.6	23.5	
7	29.1	22.4	18.9	17.9	21.0	27.3	651.1	41.2	108.8	38.0	20.3	29.1	
8	28.7	19.6	23.2	18.6	21.0	127.5	562.5	42.4	107.2	34.8	19.3	33.3	
9	21.4	20.0	22.4	17.9	22.8	193.1	537.2	38.4	106.4	31.2	22.4	28.0	
10	19.6	19.6	22.4	17.2	22.1	274.8	548.4	40.0	103.4	30.8	24.9	33.0	
11	17.9	21.4	23.2	17.9	26.3	373.0	513.4	31.9	104.2	31.2	30.5	30.8	
12	15.8	23.9	22.8	18.9	24.6	376.8	466.1	35.6	115.2	29.1	27.3	32.6	
13	14.8	24.2	23.9	24.6	23.5	405.2	443.5	34.8	116.0	24.6	42.0	21.0	
14	18.2	26.3	31.6	21.4	22.4	468.8	440.9	29.8	104.9	27.0	37.6	22.4	
15	20.0	27.7	38.4	20.7	23.9	484.0	396.0	28.7	109.6	22.8	24.9	30.1	
16	24.6	32.6	33.7	23.9	22.4	484.0	358.0	30.1	108.0	23.2	24.6	20.0	
17	32.3	31.2	28.4	18.6	23.2	475.6	343.2	26.6	108.8	24.6	23.5	17.9	
18	30.8	37.2	24.6	18.9	24.6	486.8	319.2	28.4	97.0	26.3	19.3	21.4	
19	35.6	31.9	15.5	13.0	21.4	719.5	282.6	33.3	72.8	28.7	24.2	22.1	
20	42.8	29.4	19.6	17.9	17.9	814.5	256.9	36.4	78.4	20.3	30.8	26.3	
21	39.6	24.2	22.8	17.5	14.4	862.5	235.4	40.0	82.6	22.8	23.9	31.9	
22	35.2	24.6	24.2	15.8	11.2	883.1	213.8	44.8	86.9	22.4	29.8	31.9	
23	22.8	26.0	25.2	16.8	22.1	951.9	180.2	43.2	90.5	21.0	33.7	35.2	
24	23.5	22.1	20.7	18.9	24.9	1022.4	171.9	45.6	88.3	18.9	28.7	38.8	
25	18.9	20.3	19.3	17.5	20.0	1063.9	169.3	44.8	75.6	14.8	39.6	39.6	
26	16.8	20.0	20.7	17.5	16.8	1066.0	164.0	41.6	61.8	21.7	38.0	35.6	
27	19.3	19.3	18.9	19.3	19.6	1082.3	157.8	35.6	63.0	23.2	34.4	31.9	
28	21.0	16.8	20.0	19.3	17.9	1068.0	105.6	36.0	61.8	28.0	27.7	28.4	
29	24.6	28.0	18.6	16.1	14.8	1033.2	77.0	35.2	43.2	29.1	23.2	18.9	
30	26.0	27.0	20.7	18.6	16.5	976.4	55.2	36.4	36.4	19.6		11.9	
31		28.0		16.5	18.9		39.6		31.9	30.8		15.8	
TOTAL	783.4	776.2	698.9	567.5	611.6	15798.5	12500.2	1097.2	2625.6	873.6	760.0	817.6	37910.3 CMSDAY
MEAN	26.1	25.0	23.3	18.3	19.7	526.6	403.2	36.6	84.7	28.2	26.2	26.4	103.6 CMS
MAX	42.8	37.2	38.4	24.6	26.3	1082.3	890.0	45.6	116.0	42.8	42.0	39.6	1082.3 CMS
MIN	14.8	16.8	15.5	13.0	9.1	11.6	39.6	26.6	31.9	14.8	15.1	11.9	9.1 CMS
RUNOFF	67.69	67.06	60.38	49.03	52.84	1364.99	1080.02	94.80	226.85	75.48	65.66	70.64	3275.45 MCM

MOMENTARY PEAK 1084.32 CMS, AT 11.58 M (A.D), AT 9.00 HOURS, ON SEP 27, 1987
RUNOFF YIELD LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PASAK RIVER BASIN

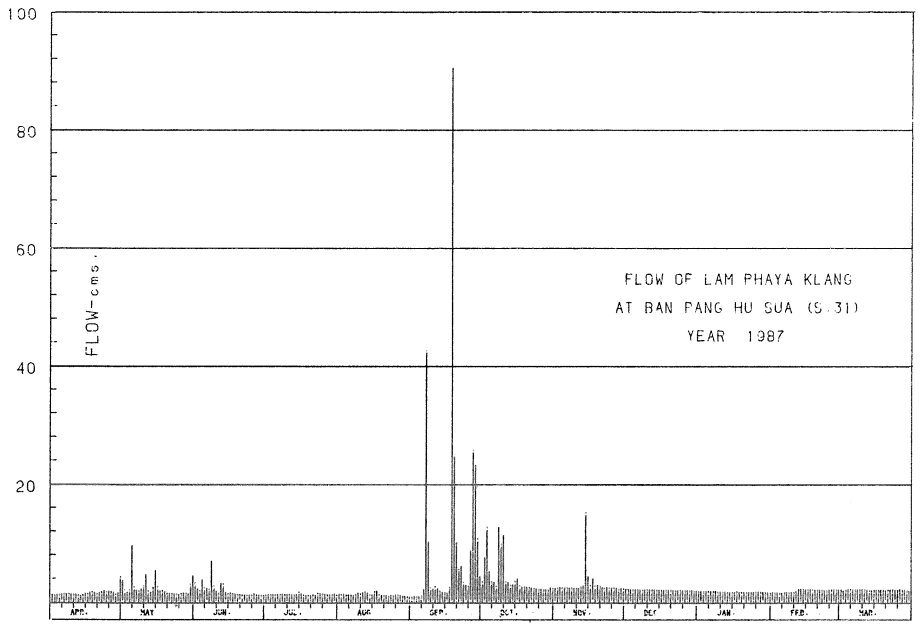
LAM PHAYA KLANG AT BAN PANG HU SUA, LOP BURI (S.31)

LOCATION	LAT. 15°-06'-05" N., LONG. 101°-24'-11" E., ON LEFT BANK AT THE BRIDGE OF DAN KHUN TOD - CHAI BADAN HIGHWAY, TAMBON SAP SOMBUN, AMPHOE CHAI BADAN, LOP BURI.
DRAINAGE AREA	381 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK DOWNSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+7.083 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1986 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 75 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.68	0.64	0.37	0.39	0.30	0.66	0.53	0.51	0.46	0.44	0.49	
2	0.36	0.49	0.51	0.38	0.39	0.32	1.07	0.54	0.51	0.46	0.43	0.47	
3	0.38	0.43	0.48	0.38	0.39	0.31	1.46	0.55	0.50	0.46	0.43	0.49	
4	0.38	0.50	0.69	0.38	0.37	0.31	0.83	0.54	0.50	0.46	0.42	0.51	
5	0.39	1.23	0.54	0.37	0.37	0.34	0.66	0.54	0.50	0.46	0.42	0.51	
6	0.41	0.56	0.53	0.38	0.36	0.50	0.65	0.54	0.50	0.46	0.43	0.50	
7	0.40	0.48	0.51	0.39	0.35	3.06	0.58	0.54	0.49	0.46	0.44	0.50	
8	0.41	0.47	1.01	0.39	0.38	1.28	1.46	0.54	0.49	0.46	0.44	0.50	
9	0.39	0.51	0.58	0.39	0.42	0.55	1.25	0.53	0.50	0.45	0.44	0.50	
10	0.39	0.59	0.46	0.38	0.41	0.51	1.36	0.53	0.50	0.45	0.44	0.51	
11	0.38	0.78	0.42	0.39	0.43	0.57	0.66	0.53	0.50	0.45	0.46	0.50	
12	0.37	0.47	0.63	0.37	0.45	0.52	0.65	0.56	0.50	0.45	0.51	0.49	
13	0.34	0.43	0.62	0.37	0.42	0.47	0.60	0.59	0.50	0.44	0.51	0.48	
14	0.37	0.55	0.43	0.38	0.38	0.44	0.61	1.64	0.49	0.44	0.51	0.48	
15	0.41	0.85	0.41	0.45	0.37	0.43	0.67	0.75	0.49	0.44	0.50	0.49	
16	0.41	0.57	0.42	0.40	0.46	0.42	0.71	0.60	0.49	0.44	0.50	0.49	
17	0.44	0.47	0.41	0.37	0.47	0.56	0.59	0.71	0.49	0.45	0.51	0.49	
18	0.45	0.48	0.40	0.35	0.38	4.48	0.56	0.59	0.49	0.44	0.50	0.49	
19	0.43	0.45	0.39	0.35	0.35	2.24	0.56	0.60	0.49	0.44	0.49	0.49	
20	0.41	0.42	0.38	0.35	0.35	1.27	0.56	0.58	0.49	0.44	0.49	0.48	
21	0.43	0.41	0.37	0.37	0.35	0.87	0.55	0.55	0.48	0.44	0.49	0.50	
22	0.45	0.41	0.36	0.35	0.33	0.92	0.54	0.54	0.48	0.44	0.49	0.50	
23	0.47	0.40	0.36	0.42	0.35	0.65	0.53	0.55	0.48	0.44	0.48	0.50	
24	0.45	0.39	0.36	0.41	0.34	0.60	0.52	0.54	0.48	0.44	0.48	0.49	
25	0.46	0.38	0.36	0.40	0.36	0.58	0.51	0.54	0.48	0.44	0.50	0.49	
26	0.45	0.41	0.40	0.39	0.38	1.16	0.51	0.54	0.48	0.45	0.50	0.51	
27	0.44	0.42	0.37	0.37	0.35	2.28	0.50	0.53	0.48	0.44	0.50	0.49	
28	0.40	0.42	0.36	0.37	0.33	2.14	0.50	0.53	0.48	0.44	0.50	0.49	
29	0.42	0.40	0.36	0.38	0.32	1.32	0.49	0.53	0.48	0.43	0.50	0.48	
30	0.75	0.62	0.35	0.40	0.31	0.75	0.54	0.52	0.47	0.43		0.47	
31		0.76		0.37	0.29		0.53		0.47	0.43		0.48	
MEAN	0.42	0.53	0.47	0.38	0.37	1.01	0.71	0.60	0.49	0.45	0.47	0.49	
MAX	0.75	1.23	1.01	0.45	0.47	4.48	1.46	1.64	0.51	0.46	0.51	0.51	4.48
MIN	0.34	0.38	0.35	0.35	0.29	0.30	0.49	0.52	0.47	0.43	0.42	0.47	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.75 M (A.D), AT 10.00 HOURS, ON SEP 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.27 M (A.D)
LEFT BANK ELEVATION 5.82 M (A.D)
RIGHT BANK ELEVATION 6.07 M (A.D), DRAINAGE AREA 381 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.35	3.80	3.40	1.35	1.45	1.00	3.60	2.47	2.32	1.95	1.80	2.18	
2	1.30	2.18	2.32	1.40	1.45	1.10	7.70	2.55	2.32	1.95	1.73	2.02	
3	1.40	1.73	2.10	1.40	1.45	1.05	12.84	2.63	2.25	1.95	1.73	2.18	
4	1.40	2.25	3.90	1.40	1.35	1.05	5.30	2.55	2.25	1.95	1.65	2.32	
5	1.45	9.69	2.55	1.35	1.35	1.20	3.60	2.55	2.25	1.95	1.65	2.32	
6	1.57	2.70	2.47	1.40	1.30	2.25	3.50	2.55	2.25	1.95	1.73	2.25	
7	1.50	2.10	2.32	1.45	1.25	42.70	2.85	2.55	2.18	1.95	1.80	2.25	
8	1.57	2.02	7.10	1.45	1.40	10.34	12.84	2.55	2.18	1.95	1.80	2.25	
9	1.45	2.32	2.85	1.45	1.65	2.63	9.95	2.47	2.25	1.87	1.80	2.25	
10	1.45	2.92	1.95	1.40	1.57	2.32	11.44	2.47	2.25	1.87	1.80	2.32	
11	1.40	4.80	1.65	1.45	1.73	2.78	3.60	2.47	2.25	1.87	1.95	2.25	
12	1.35	2.02	3.30	1.35	1.87	2.40	3.50	2.70	2.25	1.87	2.32	2.18	
13	1.20	1.73	3.20	1.35	1.65	2.02	3.00	2.92	2.25	1.80	2.32	2.10	
14	1.35	2.63	1.73	1.40	1.40	1.80	3.10	15.34	2.18	1.80	2.32	2.10	
15	1.57	5.50	1.57	1.87	1.35	1.73	3.70	4.50	2.18	1.80	2.25	2.18	
16	1.57	2.78	1.65	1.50	1.95	1.65	4.10	3.00	2.18	1.80	2.25	2.18	
17	1.80	2.02	1.57	1.35	2.02	2.70	2.92	4.10	2.18	1.87	2.32	2.18	
18	1.87	2.10	1.50	1.25	1.40	90.60	2.70	2.92	2.18	1.80	2.25	2.18	
19	1.73	1.87	1.45	1.25	1.25	25.20	2.70	3.00	2.18	1.80	2.18	2.18	
20	1.57	1.65	1.40	1.25	1.25	10.21	2.70	2.85	2.18	1.80	2.18	2.10	
21	1.73	1.57	1.35	1.35	1.25	5.70	2.63	2.63	2.10	1.80	2.18	2.25	
22	1.87	1.57	1.30	1.25	1.15	6.20	2.55	2.55	2.10	1.80	2.18	2.25	
23	2.02	1.50	1.30	1.65	1.25	3.50	2.47	2.63	2.10	1.80	2.10	2.25	
24	1.87	1.45	1.30	1.57	1.20	3.00	2.40	2.55	2.10	1.80	2.10	2.18	
25	1.95	1.40	1.30	1.50	1.30	2.85	2.32	2.55	2.10	1.80	2.25	2.18	
26	1.87	1.57	1.50	1.45	1.40	8.78	2.32	2.55	2.10	1.87	2.25	2.32	
27	1.80	1.65	1.35	1.35	1.25	26.00	2.25	2.47	2.10	1.80	2.25	2.18	
28	1.50	1.65	1.30	1.35	1.15	23.32	2.25	2.47	2.10	1.80	2.25	2.18	
29	1.65	1.50	1.30	1.40	1.10	10.88	2.18	2.47	2.10	1.73	2.25	2.10	
30	4.50	3.20	1.25	1.50	1.05	4.50	2.55	2.40	2.02	1.73		2.02	
31		4.60		1.35	0.95		2.47		2.02	1.73		2.10	
TOTAL	50.61	80.47	63.23	43.79	43.14	301.46	132.03	94.41	67.45	57.21	59.64	67.98	1061.42 CMSDAY
MEAN	1.69	2.60	2.11	1.41	1.39	10.05	4.26	3.15	2.18	1.85	2.06	2.19	2.90 CMS
MAX	4.50	9.69	7.10	1.87	2.02	90.60	12.84	15.34	2.32	1.95	2.32	2.32	90.60 CMS
MIN	1.20	1.40	1.25	1.25	0.95	1.00	2.18	2.40	2.02	1.73	1.65	2.02	0.95 CMS
RUNOFF	4.373	6.953	5.463	3.783	3.727	26.046	11.407	8.157	5.828	4.943	5.153	5.873	91.707 MCM

MOMENTARY PEAK 166.00 CMS, AT 5.75 M (A.D), AT 10.00 HOURS, ON SEP 18, 1987

RUNOFF YIELD 7.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 435.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SALAWIN RIVER BASIN

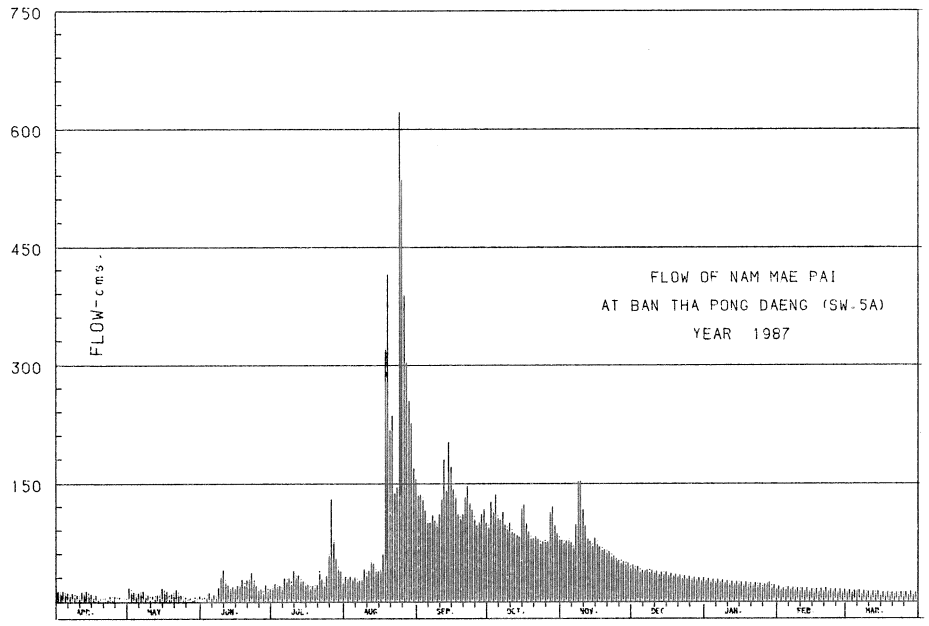
NAM MAE PAI AT BAN THA PONG DAENG, MAE HONG SON (SW.5A)

LOCATION	LAT. 19°-16'-10" N., LONG. 97°-56'-55" E., ON LEFT BANK AT BAN THA PONG DAENG, AMPHOE MUANG, MAE HONG SON.
DRAINAGE AREA	4,466 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE STATION OFFICE.
ELEVATION	+8.372 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 263 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.86	0.73	0.90	1.04	2.04	1.71	1.53	1.34	1.17	1.04	0.98	
2	0.80	0.83	0.74	0.93	1.05	2.02	1.95	1.52	1.32	1.16	1.03	0.97	
3	0.80	0.79	0.77	0.92	1.04	2.00	1.87	1.52	1.32	1.16	1.01	0.96	
4	0.79	0.78	0.78	0.90	1.04	1.86	2.02	1.55	1.29	1.15	1.03	0.96	
5	0.78	0.78	0.77	0.88	1.03	1.76	1.81	1.50	1.27	1.15	1.03	0.98	
6	0.78	0.80	0.76	1.02	1.01	1.73	1.76	1.46	1.30	1.15	1.03	0.97	
7	0.78	0.80	0.77	1.01	0.98	1.84	1.87	1.71	1.28	1.15	1.02	0.97	
8	0.77	0.77	0.86	1.02	1.02	1.75	1.71	2.17	1.28	1.14	1.02	0.96	
9	0.76	0.76	1.07	0.97	1.15	1.72	1.69	2.15	1.27	1.14	1.01	0.95	
10	0.76	0.75	1.14	1.13	1.10	1.82	1.73	1.92	1.27	1.13	1.01	0.94	
11	0.79	0.75	1.00	1.06	1.13	2.00	1.66	1.75	1.26	1.12	1.01	0.94	
12	0.80	0.76	0.91	1.06	1.28	2.34	1.61	1.65	1.25	1.12	1.01	0.95	
13	0.80	0.76	0.90	1.01	1.23	2.08	1.62	1.60	1.25	1.12	1.01	0.95	
14	0.79	0.77	0.88	0.97	1.15	2.49	1.57	1.57	1.25	1.12	1.00	0.95	
15	0.77	0.85	0.89	0.95	1.12	2.30	1.91	1.63	1.25	1.12	0.99	0.94	
16	0.76	0.82	0.90	0.92	1.15	2.07	1.92	1.60	1.24	1.11	0.99	0.93	
17	0.76	0.80	0.92	0.90	1.35	2.02	1.75	1.54	1.23	1.11	0.99	0.93	
18	0.75	0.76	1.00	0.90	3.25	1.82	1.63	1.53	1.23	1.11	0.99	0.93	
19	0.73	0.77	0.95	0.91	3.78	1.80	1.58	1.51	1.22	1.10	1.00	0.92	
20	0.73	0.79	0.99	0.91	2.61	1.82	1.55	1.50	1.22	1.10	1.00	0.92	
21	0.73	0.83	1.03	1.13	2.71	2.02	1.60	1.49	1.21	1.10	1.01	0.92	
22	0.75	0.79	1.10	1.00	2.06	2.10	1.54	1.46	1.20	1.10	1.00	0.92	
23	0.75	0.76	0.99	0.95	2.09	1.96	1.52	1.44	1.20	1.09	0.99	0.92	
24	0.75	0.75	0.90	1.05	4.62	1.87	1.51	1.41	1.20	1.09	0.98	0.93	
25	0.75	0.74	0.87	1.37	4.31	1.80	1.53	1.39	1.19	1.09	0.99	0.92	
26	0.74	0.72	0.84	1.98	3.65	1.70	1.51	1.39	1.19	1.08	0.99	0.93	
27	0.74	0.73	0.81	1.54	3.13	1.76	1.87	1.38	1.18	1.12	0.99	0.93	
28	0.74	0.75	0.91	1.30	2.85	1.82	1.90	1.37	1.18	1.11	0.98	0.94	
29	0.73	0.74	0.85	1.19	2.65	1.90	1.73	1.36	1.17	1.06	0.98	0.93	
30	0.73	0.73	0.84	1.12	2.29	1.73	1.61	1.33	1.17	1.06		0.92	
31		0.75		1.00	2.17		1.57		1.17	1.04		0.91	
MEAN	0.76	0.78	0.90	1.06	1.97	1.93	1.70	1.56	1.24	1.12	1.00	0.94	
MAX	0.80	0.86	1.14	1.98	4.62	2.49	2.02	2.17	1.34	1.17	1.04	0.98	4.62
MIN	0.73	0.72	0.73	0.88	0.98	1.70	1.51	1.33	1.17	1.04	0.98	0.91	0.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.36 M (A.D), AT 1.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.18 M (A.D)
LEFT BANK ELEVATION 8.20 M (A.D)
RIGHT BANK ELEVATION 8.36 M (A.D), DRAINAGE AREA 4466 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.00	17.20	4.36	20.00	31.40	137.90	97.20	77.65	46.40	29.80	19.00	14.70	
2	13.00	15.10	5.59	22.40	32.25	135.20	126.25	76.60	44.20	28.90	18.25	14.05	
3	13.00	11.77	9.29	21.60	31.40	132.50	116.40	76.60	44.20	28.90	16.75	13.40	
4	11.77	10.53	10.53	20.00	31.40	115.20	135.20	79.75	41.05	28.00	18.25	13.40	
5	10.53	10.53	9.29	18.60	30.55	103.20	109.20	74.50	39.15	28.00	18.25	14.70	
6	10.53	13.00	8.06	29.70	28.85	99.60	103.20	70.50	42.00	28.00	18.25	14.05	
7	10.53	13.00	9.29	28.85	26.40	112.80	116.40	97.20	40.10	28.00	17.50	14.05	
8	9.29	9.29	17.20	29.70	29.70	102.00	97.20	155.45	40.10	27.10	17.50	13.40	
9	8.06	8.06	33.95	25.60	40.75	98.40	94.90	152.75	39.15	27.10	16.75	12.75	
10	8.06	6.83	39.90	39.05	36.50	110.40	99.60	120.10	39.15	26.20	16.75	12.10	
11	11.77	6.83	28.00	33.10	39.05	132.50	91.60	96.00	38.20	25.30	16.75	12.10	
12	13.00	8.06	20.80	33.10	52.60	179.80	86.10	82.75	37.25	25.30	16.75	12.75	
13	13.00	8.06	20.00	28.85	47.85	143.30	87.20	76.50	37.25	25.30	16.75	12.75	
14	11.77	9.29	18.60	25.60	40.75	202.00	81.85	72.90	37.25	25.30	16.00	12.75	
15	9.29	16.50	19.30	24.00	38.20	174.00	121.25	80.25	37.25	25.30	15.35	12.10	
16	8.06	14.40	20.00	21.60	40.75	141.95	122.50	76.50	36.30	24.40	15.35	11.45	
17	8.06	13.00	21.60	20.00	59.50	135.20	102.00	69.30	35.35	24.40	15.35	11.45	
18	6.83	8.06	28.00	20.00	322.50	110.40	88.30	68.10	35.35	24.40	15.35	11.45	
19	4.36	9.29	24.00	20.80	415.20	108.00	82.90	65.70	34.40	23.50	16.00	10.80	
20	4.36	11.77	27.20	20.80	220.05	110.40	79.75	64.50	34.40	23.50	16.00	10.80	
21	4.36	15.10	30.55	39.05	235.60	135.20	85.00	63.35	33.45	23.50	16.75	10.80	
22	6.83	11.77	36.50	28.00	140.60	146.00	78.70	59.90	32.50	23.50	16.00	10.80	
23	6.83	8.06	27.20	24.00	144.65	127.50	76.60	57.60	32.50	22.75	15.35	10.80	
24	6.83	6.83	20.00	32.25	624.00	116.40	75.55	54.15	32.50	22.75	14.70	11.45	
25	6.83	5.59	17.90	61.50	534.70	108.00	77.65	51.90	31.60	22.75	15.35	10.80	
26	5.59	3.12	15.80	130.00	391.00	96.00	75.55	51.90	31.60	22.00	15.35	11.45	
27	5.59	4.36	13.70	78.70	302.80	103.20	116.40	50.80	30.70	25.30	15.35	11.45	
28	5.59	6.83	20.80	54.50	258.00	110.40	120.00	49.70	30.70	24.40	14.70	12.10	
29	4.36	5.59	16.50	44.15	226.25	120.00	99.60	48.60	29.80	20.50	14.70	11.45	
30	4.36	4.36	15.80	38.20	172.55	99.60	86.10	45.30	29.80	20.50		10.80	
31		6.83		28.00	155.45		81.85		29.80	19.00		10.15	
TOTAL	255.44	299.01	589.71	1061.70	4781.25	3747.05	3012.00	2266.80	1123.45	773.65	475.15	377.05	18762.26 CMSDAY
MEAN	8.51	9.65	19.66	34.25	154.23	124.90	97.16	75.56	36.24	24.96	16.38	12.16	51.26 CMS
MAX	13.00	17.20	39.90	130.00	624.00	202.00	135.20	155.45	46.40	29.80	19.00	14.70	624.00 CMS
MIN	4.36	3.12	4.36	18.60	26.40	96.00	75.55	45.30	29.80	19.00	14.70	10.15	3.12 CMS
RUNOFF	22.070	25.834	50.951	91.731	413.100	323.745	260.237	195.852	97.066	66.843	41.053	32.577	1621.059 MCM

MOMENTARY PEAK 877.00 CMS, AT 5.36 M (A.D), AT 1.00 HOURS, ON AUG 25, 1987

RUNOFF YIELD 11.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 196.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SALAWIN RIVER BASIN

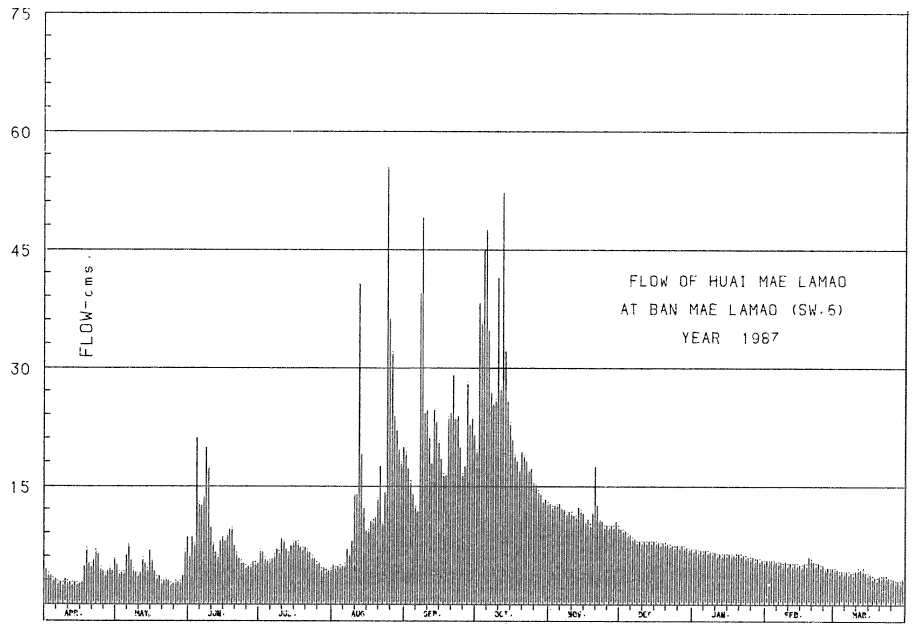
HUAI MAE LAMAO AT BAN MAE LAMAO, TAK (SW.6)

LOCATION	LAT. 16°-45'- 44" N., LONG. 98°-45'-14" E., ON LEFT BANK DOWNSTREAM FROM THE BRIDGE ON HIGHWAY, AT BAN MAE LAMAO, AMPHOE MAE SOT, TAK.
DRAINAGE AREA	1,038 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 6.25 METERS FROM AUTOMATIC GAGE BUILDING.
ELEVATION	+10.386 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 106 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.65	0.72	0.75	0.65	1.21	1.22	0.99	0.86	0.75	0.68	0.63	
2	0.60	0.61	0.82	0.73	0.64	1.14	1.73	0.98	0.86	0.75	0.68	0.62	
3	0.58	0.60	0.79	0.70	0.64	1.09	1.67	0.98	0.85	0.74	0.68	0.61	
4	0.57	0.61	1.27	0.67	0.65	1.03	1.90	0.99	0.84	0.74	0.68	0.61	
5	0.56	0.71	1.00	0.68	0.64	0.98	1.97	0.99	0.83	0.74	0.67	0.61	
6	0.55	0.79	0.98	0.69	0.66	0.95	1.64	0.98	0.82	0.74	0.67	0.61	
7	0.54	0.68	1.03	0.72	0.75	1.77	1.44	0.96	0.81	0.74	0.67	0.61	
8	0.54	0.63	1.23	0.75	0.73	2.00	1.39	0.95	0.80	0.73	0.66	0.60	
9	0.56	0.60	1.15	0.74	0.80	1.37	1.41	0.95	0.80	0.73	0.67	0.60	
10	0.55	0.60	0.87	0.81	1.04	1.37	1.81	0.95	0.80	0.73	0.66	0.61	
11	0.54	0.60	0.79	0.81	1.03	1.28	1.45	0.93	0.80	0.72	0.66	0.63	
12	0.54	0.70	0.73	0.75	1.80	1.16	2.08	0.93	0.80	0.72	0.66	0.62	
13	0.54	0.66	0.71	0.73	1.20	1.38	1.58	0.97	0.80	0.72	0.66	0.63	
14	0.54	0.63	0.80	0.77	0.98	1.33	1.40	0.96	0.80	0.72	0.66	0.60	
15	0.53	0.74	0.83	0.80	0.85	1.26	1.33	0.94	0.80	0.72	0.65	0.60	
16	0.56	0.69	0.80	0.80	0.86	1.18	1.26	0.91	0.80	0.72	0.65	0.59	
17	0.64	0.61	0.84	0.80	0.90	1.12	1.20	0.91	0.79	0.72	0.66	0.58	
18	0.76	0.58	0.86	0.76	0.91	1.11	1.17	0.89	0.79	0.71	0.66	0.57	
19	0.66	0.58	0.87	0.76	0.92	1.35	1.14	0.94	0.79	0.72	0.70	0.57	
20	0.66	0.55	0.77	0.76	1.02	1.36	1.21	1.16	0.79	0.72	0.69	0.58	
21	0.68	0.55	0.73	0.75	1.15	1.50	1.20	0.98	0.78	0.72	0.67	0.58	
22	0.75	0.58	0.69	0.73	0.90	1.34	1.17	0.92	0.78	0.71	0.66	0.58	
23	0.72	0.55	0.68	0.71	1.04	1.36	1.14	0.90	0.77	0.71	0.66	0.58	
24	0.64	0.54	0.66	0.69	2.16	1.23	1.14	0.88	0.77	0.70	0.65	0.57	
25	0.61	0.53	0.65	0.67	1.68	1.12	1.09	0.88	0.77	0.70	0.65	0.56	
26	0.60	0.55	0.64	0.66	1.57	1.15	1.07	0.88	0.77	0.70	0.63	0.56	
27	0.61	0.54	0.65	0.63	1.35	1.47	1.05	0.88	0.77	0.69	0.63	0.55	
28	0.64	0.55	0.67	0.63	1.31	1.32	1.03	0.88	0.77	0.69	0.63	0.55	
29	0.61	0.58	0.67	0.62	1.22	1.35	1.01	0.90	0.76	0.69	0.63	0.55	
30	0.71	0.75	0.66	0.61	1.17	1.28	1.01	0.88	0.76	0.68		0.56	
31		0.82		0.63	1.23		1.00		0.75	0.68		0.56	
MEAN	0.61	0.62	0.82	0.72	1.05	1.29	1.35	0.94	0.80	0.72	0.66	0.59	
MAX	0.76	0.82	1.27	0.81	2.16	2.00	2.08	1.16	0.86	0.75	0.70	0.63	2.16
MIN	0.53	0.53	0.64	0.61	0.64	0.95	1.00	0.88	0.75	0.68	0.63	0.55	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.26 M (A.D), AT 22.00 HOURS, ON SEP 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.04 M (A.D)
LEFT BANK ELEVATION 13.33 M (A.D)
RIGHT BANK ELEVATION 8.17 M (A.D), DRAINAGE AREA 1038 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.40	5.00	6.40	7.00	5.00	19.30	19.60	12.75	9.50	7.00	5.60	4.60	
2	4.00	4.20	8.50	6.60	4.80	17.20	38.20	12.50	9.50	7.00	5.60	4.40	
3	3.60	4.00	7.80	6.00	4.80	15.70	35.86	12.50	9.25	6.80	5.60	4.20	
4	3.40	4.20	21.10	5.40	5.00	13.90	45.00	12.75	9.00	6.80	5.60	4.20	
5	3.20	6.20	13.00	5.60	4.80	12.50	47.80	12.75	8.75	6.80	5.40	4.20	
6	3.00	7.80	12.50	5.80	5.20	11.75	34.72	12.50	8.50	6.80	5.40	4.20	
7	2.80	5.60	13.90	6.40	7.00	39.80	27.18	12.00	8.25	6.80	5.40	4.20	
8	2.80	4.60	19.90	7.00	6.60	49.00	25.33	11.75	8.00	6.60	5.20	4.00	
9	3.20	4.00	17.50	6.80	8.00	24.59	26.07	11.75	8.00	6.60	5.40	4.00	
10	3.00	4.00	9.75	8.25	14.20	24.59	41.40	11.75	8.00	6.60	5.20	4.20	
11	2.80	4.00	7.80	8.25	13.90	21.40	27.55	11.25	8.00	6.40	5.20	4.60	
12	2.80	6.00	6.60	7.00	41.00	17.80	52.20	11.25	8.00	6.40	5.20	4.40	
13	2.80	5.20	6.20	6.60	19.00	24.96	32.44	12.25	8.00	6.40	5.20	4.60	
14	2.80	4.60	8.00	7.40	12.50	23.11	25.70	12.00	8.00	6.40	5.20	4.00	
15	2.60	6.80	8.75	8.00	9.25	20.80	23.11	11.50	8.00	6.40	5.00	4.00	
16	3.20	5.80	8.00	8.00	9.50	18.40	20.80	10.75	8.00	6.40	5.00	3.80	
17	4.80	4.20	9.00	8.00	10.50	16.60	19.00	10.75	7.80	6.40	5.20	3.60	
18	7.20	3.60	9.50	7.20	10.75	16.30	18.10	10.25	7.80	6.20	5.20	3.40	
19	5.20	3.60	9.75	7.20	11.00	23.85	17.20	11.50	7.80	6.40	6.00	3.40	
20	5.20	3.00	7.40	7.20	13.60	24.22	19.30	17.80	7.80	6.40	5.80	3.60	
21	5.60	3.00	6.60	7.00	17.50	29.40	19.00	12.50	7.60	6.40	5.40	3.60	
22	7.00	3.60	5.80	6.60	10.50	23.48	18.10	11.00	7.60	6.20	5.20	3.60	
23	6.40	3.00	5.60	6.20	14.20	24.22	17.20	10.50	7.40	6.20	5.20	3.60	
24	4.80	2.80	5.20	5.80	55.40	19.90	17.20	10.00	7.40	6.00	5.00	3.40	
25	4.20	2.60	5.00	5.40	36.24	16.60	15.70	10.00	7.40	6.00	5.00	3.20	
26	4.00	3.00	4.80	5.20	32.06	17.50	15.10	10.00	7.40	6.00	4.60	3.20	
27	4.20	2.80	5.00	4.60	23.85	28.29	14.50	10.00	7.40	5.80	4.60	3.00	
28	4.80	3.00	5.40	4.60	22.37	22.74	13.90	10.00	7.40	5.80	4.60	3.00	
29	4.20	3.60	5.40	4.40	19.60	23.85	13.30	10.50	7.20	5.80	4.60	3.00	
30	6.20	7.00	5.20	4.20	18.10	21.40	13.30	10.00	7.20	5.60		3.20	
31		8.50		4.60	19.90		13.00		7.00	5.60		3.20	
TOTAL	124.20	139.30	265.35	198.30	486.12	663.15	766.86	346.80	246.95	197.00	151.60	117.60	3703.23 CMSDAY
MEAN	4.14	4.49	8.85	6.40	15.68	22.10	24.74	11.56	7.97	6.35	5.23	3.79	10.12 CMS
MAX	7.20	8.50	21.10	8.25	55.40	49.00	52.20	17.80	9.50	7.00	6.00	4.60	55.40 CMS
MIN	2.60	2.60	4.80	4.20	4.80	11.75	13.00	10.00	7.00	5.60	4.60	3.00	2.60 CMS
RUNOFF	10.731	12.036	22.926	17.133	42.001	57.296	66.257	29.964	21.336	17.021	13.098	10.161	319.959 MCM

MOMENTARY PEAK 104.08 CMS, AT 3.26 M (A.D), AT 22.00 HOURS, ON SEP 7, 1987

RUNOFF YIELD 9.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 100.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

KHONG RIVER BASIN

HAM 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 — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +170.60 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +179.69 M.(M.S.L.)

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 — FAIRLY STABLE.

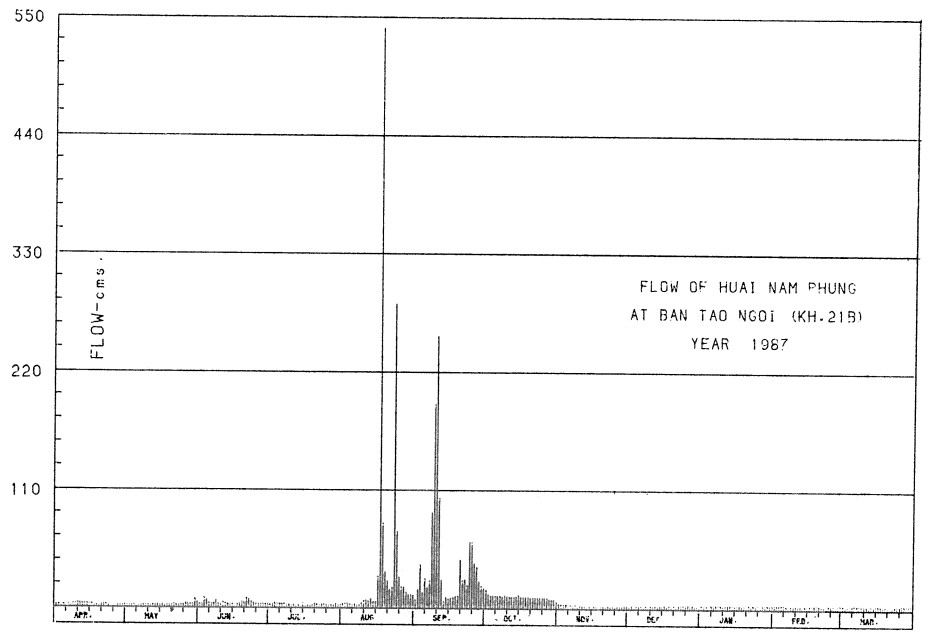
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	171.31	171.31	171.35	171.32	171.37	171.54	171.78	171.39	171.32	171.34	171.35	171.36	
2	171.31	171.30	171.36	171.34	171.39	171.79	171.69	171.38	171.32	171.33	171.36	171.33	
3	171.31	171.31	171.59	171.40	171.39	172.17	171.65	171.36	171.32	171.34	171.36	171.32	
4	171.31	171.31	171.52	171.36	171.36	171.73	171.66	171.36	171.32	171.34	171.37	171.37	
5	171.31	171.31	171.40	171.37	171.33	171.98	171.65	171.35	171.32	171.35	171.36	171.34	
6	171.31	171.30	171.35	171.36	171.34	171.83	171.65	171.34	171.32	171.35	171.33	171.38	
7	171.31	171.30	171.37	171.37	171.33	171.95	171.65	171.35	171.31	171.35	171.34	171.36	
8	171.34	171.30	171.51	171.34	171.32	172.70	171.63	171.35	171.33	171.35	171.33	171.37	
9	171.34	171.31	171.36	171.32	171.41	173.46	171.66	171.31	171.33	171.34	171.33	171.35	
10	171.39	171.31	171.34	171.34	171.51	173.84	171.64	171.32	171.33	171.34	171.34	171.35	
11	171.38	171.31	171.42	171.32	171.52	172.82	171.63	171.32	171.32	171.34	171.34	171.34	
12	171.37	171.31	171.38	171.31	171.50	171.96	171.62	171.30	171.31	171.35	171.33	171.35	
13	171.36	171.32	171.35	171.31	171.56	171.50	171.62	171.30	171.32	171.35	171.34	171.34	
14	171.36	171.31	171.35	171.30	171.46	171.61	171.64	171.30	171.31	171.34	171.33	171.34	
15	171.34	171.31	171.34	171.41	171.46	171.57	171.67	171.29	171.33	171.34	171.34	171.34	
16	171.34	171.31	171.33	171.30	172.01	171.59	171.62	171.31	171.34	171.34	171.34	171.37	
17	171.30	171.30	171.34	171.27	175.11	171.61	171.62	171.29	171.32	171.34	171.34	171.34	
18	171.30	171.31	171.35	171.28	172.60	171.64	171.62	171.29	171.34	171.33	171.34	171.34	
19	171.29	171.32	171.45	171.33	172.08	171.65	171.62	171.29	171.32	171.35	171.35	171.33	
20	171.32	171.32	171.41	171.38	171.94	172.23	171.60	171.29	171.34	171.35	171.34	171.33	
21	171.34	171.36	171.58	171.35	171.79	171.95	171.61	171.30	171.33	171.36	171.33	171.33	
22	171.32	171.31	171.54	171.33	171.83	171.97	171.61	171.28	171.34	171.35	171.31	171.34	
23	171.32	171.32	171.46	171.34	174.00	171.87	171.60	171.26	171.34	171.34	171.36	171.34	
24	171.31	171.31	171.40	171.36	172.52	172.42	171.60	171.28	171.34	171.33	171.35	171.36	
25	171.31	171.33	171.36	171.33	172.00	172.42	171.60	171.29	171.34	171.35	171.35	171.33	
26	171.32	171.38	171.35	171.33	171.84	172.19	171.60	171.28	171.36	171.33	171.35	171.36	
27	171.31	171.37	171.35	171.32	171.84	172.14	171.60	171.28	171.34	171.36	171.35	171.36	
28	171.31	171.35	171.36	171.32	171.73	171.94	171.56	171.28	171.35	171.36	171.35	171.36	
29	171.31	171.37	171.35	171.37	171.68	171.86	171.55	171.31	171.33	171.36	171.37	171.36	
30	171.31	171.55	171.35	171.33	171.68	171.81	171.55	171.31	171.32	171.35		171.36	
31		171.43		171.33	171.66		171.48		171.34	171.35		171.36	
MEAN	171.33	171.33	171.40	171.34	171.86	172.06	171.62	171.31	171.33	171.35	171.34	171.35	
MAX	171.39	171.55	171.59	171.41	175.11	173.84	171.78	171.39	171.36	171.36	171.37	171.38	175.11
MIN	171.29	171.30	171.33	171.27	171.32	171.50	171.48	171.26	171.31	171.33	171.31	171.32	171.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 176.20 M (MSL), AT 10.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 170.60 M (MSL), RIVER BED 170.90 M (MSL)
LEFT BANK ELEVATION 178.30 M (MSL)
RIGHT BANK ELEVATION 178.44 M (MSL), DRAINAGE AREA 641 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.50	2.50	3.30	2.70	3.70	7.58	16.88	4.10	2.70	3.10	3.30	3.50	
2	2.50	2.30	3.50	3.10	4.10	17.34	12.83	3.90	2.70	2.90	3.50	2.90	
3	2.50	2.50	9.18	4.30	4.10	40.25	11.35	3.50	2.70	3.10	3.50	2.70	
4	2.50	2.50	6.94	3.50	3.50	14.58	11.72	3.50	2.70	3.10	3.70	3.70	
5	2.50	2.50	4.30	3.70	2.90	27.46	11.35	3.30	2.70	3.30	3.50	3.10	
6	2.50	2.30	3.30	3.50	3.10	19.21	11.35	3.10	2.70	3.30	2.90	3.90	
7	2.50	2.30	3.70	3.70	2.90	25.60	11.35	3.30	2.50	3.30	3.10	3.50	
8	3.10	2.30	6.62	3.10	2.70	89.00	10.61	3.30	2.90	3.30	2.90	3.70	
9	3.10	2.50	3.50	2.70	4.50	189.60	11.72	2.50	2.90	3.10	2.90	3.30	
10	4.10	2.50	3.10	3.10	6.62	253.20	10.98	2.70	2.90	3.10	3.10	3.30	
11	3.90	2.50	4.70	2.70	6.94	102.40	10.61	2.70	2.70	3.10	3.10	3.10	
12	3.70	2.50	3.90	2.50	6.30	26.22	10.24	2.30	2.50	3.30	2.90	3.30	
13	3.50	2.70	3.30	2.50	8.22	6.30	10.24	2.30	2.70	3.30	3.10	3.10	
14	3.50	2.50	3.30	2.30	5.50	9.87	10.98	2.30	2.50	3.10	2.90	3.10	
15	3.10	2.50	3.10	4.50	5.50	8.54	12.09	2.22	2.90	3.10	3.10	3.10	
16	3.10	2.50	2.90	2.30	29.33	9.18	10.24	2.50	3.10	3.10	3.10	3.70	
17	2.30	2.30	3.10	2.06	539.70	9.87	10.24	2.22	2.70	3.10	3.10	3.10	
18	2.30	2.50	3.30	2.14	79.00	10.98	10.24	2.22	3.10	2.90	3.10	3.10	
19	2.22	2.70	5.30	2.90	33.74	11.35	10.24	2.22	2.70	3.30	3.30	2.90	
20	2.70	2.70	4.50	3.90	24.98	45.05	9.50	2.22	3.10	3.30	3.10	2.90	
21	3.10	3.50	8.86	3.30	17.34	25.60	9.87	2.30	2.90	3.50	2.90	2.90	
22	2.70	2.50	7.58	2.90	19.21	26.84	9.87	2.14	3.10	3.30	2.50	3.10	
23	2.70	2.70	5.50	3.10	283.00	21.09	9.50	1.98	3.10	3.10	3.50	3.10	
24	2.50	2.50	4.30	3.50	71.00	61.40	9.50	2.14	3.10	2.90	3.30	3.50	
25	2.50	2.90	3.50	2.90	28.70	61.40	9.50	2.22	3.10	3.30	3.30	2.90	
26	2.70	3.90	3.30	2.90	19.68	41.75	9.50	2.14	3.50	2.90	3.30	3.50	
27	2.50	3.70	3.30	2.70	19.68	38.00	9.50	2.14	3.10	3.50	3.30	3.50	
28	2.50	3.30	3.50	2.70	14.58	24.98	8.22	2.14	3.30	3.50	3.30	3.50	
29	2.50	3.70	3.30	3.70	12.46	20.62	7.90	2.50	2.90	3.50	3.70	3.50	
30	2.50	7.90	3.30	2.90	12.46	18.27	7.90	2.50	2.70	3.30		3.50	
31		4.90		2.90	11.72		5.90		3.10	3.30		3.50	
TOTAL	84.32	91.10	131.28	94.70	1287.16	1263.53	321.92	78.60	89.30	99.30	92.30	101.50	3735.01 CMSDAY
MEAN	2.81	2.94	4.38	3.05	41.52	42.12	10.38	2.62	2.88	3.20	3.18	3.27	10.20 CMS
MAX	4.10	7.90	9.18	4.50	539.70	253.20	16.88	4.10	3.50	3.50	3.70	3.90	539.70 CMS
MIN	2.22	2.30	2.90	2.06	2.70	6.30	5.90	1.98	2.50	2.90	2.50	2.70	1.98 CMS
RUNOFF	7.285	7.871	11.343	8.182	111.211	109.169	27.814	6.791	7.716	8.580	7.975	8.770	322.705 MCM

MOMENTARY PEAK 878.01 CMS, AT 176.20 M (MSL), AT 10.00 HOURS, ON AUG 17, 1987
RUNOFF YIELD 15.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1369.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

KHONG RIVER BASIN

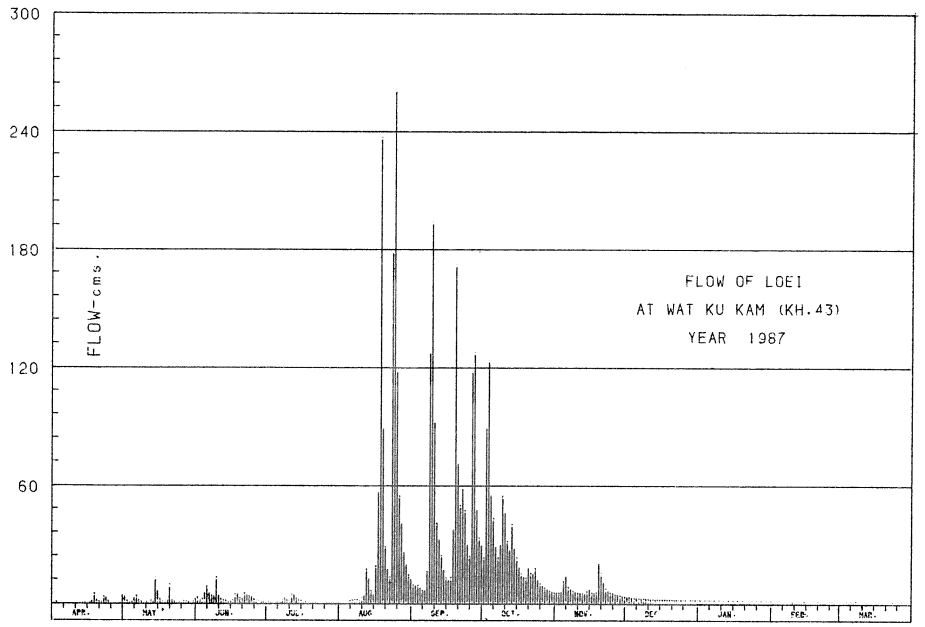
LOEI RIVER AT WAT KU KAM, LOEI (KH.43)

LOCATION	LAT. 17°-14'-15" N., LONG. 101°-41'-31" E., ON LEFT BANK DOWNSTREAM FROM WAT KU KAM AT BAN SAI KHAO, AMPHOE WANG SAPHUNG, LOEI.
DRAINAGE AREA	391 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	UNDER TAMARIND TREE ALONG THE MEASURING LINE.
ELEVATION	+10.667 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 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 - 1973, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 - 1973, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.69	0.67	0.48	0.42	1.01	1.46	0.81	0.68	0.59	0.55	0.53	
2	0.47	0.55	0.57	0.47	0.40	0.99	2.67	0.81	0.68	0.58	0.55	0.53	
3	0.44	0.49	0.63	0.45	0.42	1.00	3.11	0.83	0.66	0.58	0.55	0.53	
4	0.42	0.47	0.79	0.45	0.45	0.94	2.13	1.08	0.65	0.58	0.55	0.53	
5	0.41	0.64	0.98	0.45	0.55	0.89	1.91	1.16	0.65	0.58	0.55	0.53	
6	0.40	0.72	0.79	0.46	0.58	0.87	1.59	0.97	0.65	0.58	0.55	0.53	
7	0.40	0.58	0.73	0.60	0.59	1.25	1.46	0.91	0.64	0.58	0.54	0.54	
8	0.44	0.50	0.70	0.64	0.60	3.15	1.62	0.87	0.64	0.58	0.54	0.54	
9	0.42	0.47	1.15	0.59	0.57	3.89	2.13	0.83	0.63	0.58	0.54	0.54	
10	0.40	0.51	0.72	0.58	0.66	2.71	1.96	0.81	0.63	0.57	0.54	0.54	
11	0.41	0.52	0.63	0.76	0.71	1.86	1.67	0.80	0.62	0.57	0.54	0.54	
12	0.40	0.57	0.59	0.73	1.29	1.69	1.55	0.79	0.62	0.57	0.55	0.54	
13	0.40	0.53	0.55	0.64	1.12	1.49	1.85	0.77	0.61	0.57	0.55	0.53	
14	0.40	1.15	0.53	0.59	0.88	1.27	1.57	0.86	0.61	0.57	0.55	0.53	
15	0.40	0.85	0.51	0.56	0.74	1.14	1.46	0.90	0.61	0.57	0.54	0.52	
16	0.41	0.63	0.57	0.53	1.34	1.09	1.31	0.82	0.61	0.57	0.54	0.52	
17	0.53	0.54	0.77	0.51	2.16	1.15	1.21	0.80	0.61	0.57	0.54	0.51	
18	0.79	0.54	0.75	0.50	4.30	1.79	1.15	0.83	0.61	0.57	0.54	0.51	
19	0.58	0.57	0.66	0.49	2.67	3.67	1.14	1.38	0.61	0.57	0.54	0.51	
20	0.51	1.02	0.62	0.48	1.60	2.40	1.30	1.22	0.61	0.56	0.55	0.51	
21	0.51	0.58	0.80	0.46	1.28	2.04	1.22	1.05	0.60	0.56	0.55	0.50	
22	0.70	0.50	0.72	0.46	1.15	2.19	1.21	0.93	0.60	0.56	0.55	0.50	
23	0.66	0.49	0.71	0.46	3.73	1.99	1.30	0.86	0.59	0.56	0.55	0.49	
24	0.54	0.46	0.67	0.46	4.52	1.62	1.10	0.82	0.59	0.56	0.55	0.49	
25	0.48	0.45	0.62	0.46	3.03	1.48	1.04	0.80	0.59	0.56	0.55	0.49	
26	0.45	0.54	0.58	0.47	2.13	3.03	0.99	0.76	0.59	0.56	0.54	0.50	
27	0.45	0.54	0.55	0.43	1.85	3.16	0.95	0.75	0.59	0.55	0.54	0.50	
28	0.43	0.46	0.53	0.42	1.52	1.99	0.91	0.73	0.59	0.55	0.54	0.50	
29	0.44	0.45	0.51	0.44	1.36	1.71	0.87	0.71	0.59	0.55	0.54	0.50	
30	0.81	0.53	0.50	0.42	1.19	1.61	0.84	0.70	0.59	0.55		0.50	
31		0.62		0.42	1.11		0.82		0.59	0.55		0.50	
MEAN	0.48	0.59	0.67	0.51	1.45	1.84	1.47	0.88	0.62	0.57	0.55	0.52	
MAX	0.81	1.15	1.15	0.76	4.52	3.89	3.11	1.38	0.68	0.59	0.55	0.54	4.52
MIN	0.40	0.45	0.50	0.42	0.40	0.87	0.82	0.70	0.59	0.55	0.54	0.49	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.29 M (A.D), AT 23.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.14 M (A.D)
LEFT BANK ELEVATION 11.05 M (A.D)
RIGHT BANK ELEVATION 10.28 M (A.D), DRAINAGE AREA 991 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	3.50	3.17	0.90	0.60	9.57	23.40	5.50	3.33	1.90	1.50	1.30	
2	0.85	1.50	1.70	0.85	0.50	9.07	88.90	5.50	3.33	1.80	1.50	1.30	
3	0.70	0.95	2.50	0.75	0.60	9.30	123.80	5.83	3.00	1.80	1.50	1.30	
4	0.60	0.85	5.17	0.75	0.75	7.92	54.80	11.46	2.83	1.80	1.50	1.30	
5	0.55	2.67	8.84	0.75	1.50	6.83	43.50	13.80	2.83	1.80	1.50	1.30	
6	0.50	4.00	5.17	0.80	1.80	6.50	28.60	8.61	2.83	1.80	1.50	1.30	
7	0.50	1.80	4.17	2.00	1.90	16.50	23.40	7.23	2.67	1.80	1.40	1.40	
8	0.70	1.00	3.67	2.67	2.00	127.00	29.80	6.50	2.67	1.80	1.40	1.40	
9	0.60	0.85	13.50	1.90	1.70	194.00	54.80	5.83	2.50	1.80	1.40	1.40	
10	0.50	1.10	4.00	1.80	3.00	91.80	46.00	5.50	2.50	1.70	1.40	1.40	
11	0.55	1.20	2.50	4.67	3.83	41.00	31.80	5.33	2.33	1.70	1.40	1.40	
12	0.50	1.70	1.90	4.17	17.70	32.60	27.00	5.17	2.33	1.70	1.50	1.40	
13	0.50	1.30	1.50	2.67	12.60	24.60	40.50	4.83	2.17	1.70	1.50	1.30	
14	0.50	13.50	1.30	1.90	6.67	17.10	27.80	6.33	2.17	1.70	1.50	1.30	
15	0.50	6.17	1.10	1.60	4.33	13.20	23.40	7.00	2.17	1.70	1.40	1.20	
16	0.55	2.50	1.70	1.30	19.20	11.73	18.30	5.67	2.17	1.70	1.40	1.20	
17	1.30	1.40	4.83	1.10	56.60	13.50	15.30	5.33	2.17	1.70	1.40	1.10	
18	5.17	1.40	4.50	1.00	237.00	37.50	13.50	5.83	2.17	1.70	1.40	1.10	
19	1.80	1.70	3.00	0.95	88.90	172.30	13.20	20.40	2.17	1.70	1.40	1.10	
20	1.10	9.84	2.33	0.90	29.00	71.00	18.00	15.60	2.17	1.60	1.50	1.10	
21	1.10	1.80	5.33	0.80	17.40	50.00	15.60	10.65	2.00	1.60	1.50	1.00	
22	3.67	1.00	4.00	0.80	13.50	58.40	15.30	7.69	2.00	1.60	1.50	1.00	
23	3.00	0.95	3.83	0.80	178.00	47.50	18.00	6.33	1.90	1.60	1.50	0.95	
24	1.40	0.80	3.17	0.80	261.20	29.80	12.00	5.67	1.90	1.60	1.50	0.95	
25	0.90	0.75	2.33	0.80	117.40	24.20	10.38	5.33	1.90	1.60	1.50	0.95	
26	0.75	1.40	1.80	0.85	54.80	117.40	9.07	4.67	1.90	1.60	1.40	1.00	
27	0.75	1.40	1.50	0.65	40.50	127.80	8.15	4.50	1.90	1.50	1.40	1.00	
28	0.65	0.80	1.30	0.60	25.80	47.50	7.23	4.17	1.90	1.50	1.40	1.00	
29	0.70	0.75	1.10	0.70	19.80	33.50	6.50	3.83	1.90	1.50	1.40	1.00	
30	5.50	1.30	1.00	0.60	14.70	29.40	6.00	3.67	1.90	1.50		1.00	
31		2.33		0.60	12.30		5.67		1.90	1.50		1.00	
TOTAL	36.89	72.21	101.91	41.43	1245.58	1478.52	859.70	213.76	71.61	52.00	42.10	36.45	4252.16 CMSDAY
MEAN	1.23	2.33	3.40	1.34	40.18	49.28	27.73	7.13	2.31	1.68	1.45	1.18	11.62 CMS
MAX	5.50	13.50	13.50	4.67	261.20	194.00	123.80	20.40	3.33	1.90	1.50	1.40	261.20 CMS
MIN	0.50	0.75	1.00	0.60	0.50	6.50	5.67	3.67	1.90	1.50	1.40	0.95	0.50 CMS
RUNOFF	3.187	6.239	8.805	3.580	107.618	127.744	74.278	18.469	6.187	4.493	3.637	3.149	367.387 MCM

MOMENTARY PEAK 351.80 CMS, AT 5.29 M (A.D), AT 23.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD 11.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 354.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

KHONG RIVER BASIN

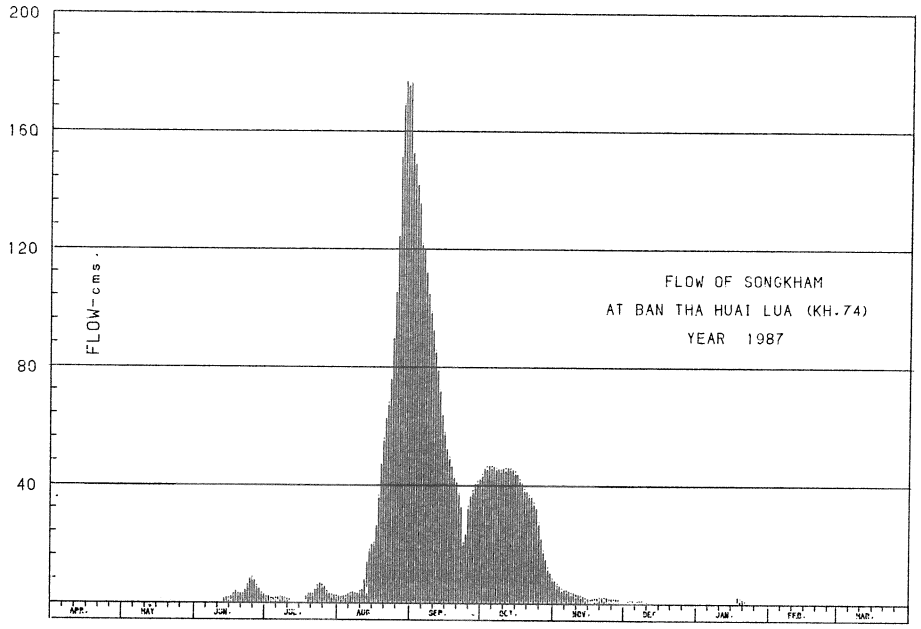
SONGKRAM RIVER AT BAN THA HUAI LUA, SAKON NAKHON (KH.74)

LOCATION	LAT. 17°-49'-05" N., LONG. 103°-23'-28" E., ON LEFT BANK AT BAN THA HUAI LUA, AMPHOE BAN MUANG, SAKON NAKHON.
DRAINAGE AREA	2,145 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+11.633 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.84	1.87	1.87	2.01	2.01	8.24	4.27	2.29	1.92	1.89	1.89	1.89	
2	1.84	1.87	1.87	2.01	2.01	8.18	4.41	2.21	1.94	1.89	1.89	1.89	
3	1.84	1.87	1.87	1.99	2.02	8.07	4.47	2.20	1.95	1.90	1.89	1.89	
4	1.83	1.87	1.87	1.98	2.03	7.94	4.49	2.16	1.95	1.90	1.90	1.89	
5	1.83	1.87	1.88	1.99	2.05	7.68	4.48	2.13	1.95	1.90	1.90	1.91	
6	1.83	1.87	1.89	1.99	2.08	7.64	4.46	2.13	1.94	1.90	1.90	1.91	
7	1.82	1.87	1.89	2.01	2.09	7.47	4.44	2.11	1.95	1.90	1.90	1.90	
8	1.83	1.87	1.89	2.00	2.07	7.26	4.40	2.09	1.95	1.90	1.90	1.89	
9	1.87	1.87	1.88	1.99	2.06	7.07	4.38	2.08	1.94	1.90	1.90	1.88	
10	1.88	1.87	1.88	1.97	2.11	6.84	4.41	2.06	1.93	1.90	1.90	1.87	
11	1.88	1.87	1.89	1.96	2.13	6.59	4.43	2.05	1.92	1.89	1.90	1.88	
12	1.88	1.87	1.90	1.94	2.30	6.30	4.43	2.04	1.92	1.89	1.90	1.88	
13	1.88	1.87	1.98	1.92	2.57	6.03	4.42	2.02	1.91	1.89	1.90	1.88	
14	1.88	1.87	1.99	1.91	2.75	5.58	4.38	2.00	1.90	1.89	1.90	1.88	
15	1.88	1.87	1.99	1.91	2.81	5.28	4.34	1.98	1.90	1.89	1.90	1.88	
16	1.87	1.86	2.01	1.92	2.84	4.93	4.25	1.97	1.90	1.89	1.89	1.88	
17	1.87	1.86	2.06	1.95	3.06	4.73	4.13	1.98	1.90	1.90	1.89	1.88	
18	1.87	1.86	2.10	2.01	3.63	4.46	4.02	1.99	1.91	2.01	1.89	1.88	
19	1.87	1.86	2.07	2.06	4.19	4.23	3.87	1.99	1.91	2.00	1.90	1.88	
20	1.87	1.86	2.06	2.06	4.60	4.04	3.79	2.01	1.91	1.97	1.90	1.88	
21	1.87	1.86	2.06	2.06	4.89	3.76	3.71	2.00	1.92	1.95	1.90	1.88	
22	1.86	1.86	2.12	2.13	5.11	3.37	3.64	2.01	1.92	1.93	1.90	1.87	
23	1.86	1.85	2.22	2.21	5.41	2.84	3.51	2.00	1.91	1.90	1.89	1.87	
24	1.85	1.85	2.32	2.24	5.90	2.95	3.34	1.98	1.91	1.90	1.89	1.88	
25	1.85	1.85	2.35	2.22	6.32	3.41	3.11	1.98	1.91	1.90	1.89	1.88	
26	1.85	1.85	2.29	2.18	6.84	3.66	2.89	1.98	1.90	1.90	1.89	1.88	
27	1.90	1.85	2.21	2.11	7.45	3.83	2.74	1.98	1.90	1.90	1.89	1.87	
28	1.90	1.86	2.14	2.06	7.91	4.00	2.61	1.97	1.90	1.90	1.89	1.87	
29	1.89	1.89	2.08	2.05	8.15	4.08	2.51	1.94	1.89	1.90	1.88	1.87	
30	1.87	1.88	2.04	2.03	8.27	4.12	2.42	1.91	1.89	1.90		1.87	
31		1.87		2.03	8.30		2.34		1.89	1.90		1.87	
MEAN	1.86	1.87	2.02	2.03	4.06	5.49	3.84	2.04	1.92	1.91	1.90	1.88	
MAX	1.90	1.89	2.35	2.24	8.30	8.24	4.49	2.29	1.95	2.01	1.90	1.91	8.30
MIN	1.82	1.85	1.87	1.91	2.01	2.84	2.34	1.91	1.89	1.89	1.88	1.87	1.82

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.30 M (A.D), AT 16.00 HOURS, ON AUG 31, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.14 M (A.D)
LEFT BANK ELEVATION 8.62 M (A.D)
RIGHT BANK ELEVATION 8.36 M (A.D), DRAINAGE AREA 2145 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	2.15	2.15	153.20	43.79	7.61	0.39	0.00	0.00	0.00	
2	0.00	0.00	0.00	2.15	2.15	148.80	45.56	6.05	0.78	0.00	0.00	0.00	
3	0.00	0.00	0.00	1.76	2.34	142.44	46.32	5.85	0.98	0.00	0.00	0.00	
4	0.00	0.00	0.00	1.56	2.54	135.32	46.57	5.07	0.98	0.00	0.00	0.00	
5	0.00	0.00	0.00	1.76	2.92	122.00	46.44	4.49	0.98	0.00	0.00	0.19	
6	0.00	0.00	0.00	1.76	3.51	120.00	46.19	4.49	0.78	0.00	0.00	0.19	
7	0.00	0.00	0.00	2.15	3.70	112.80	45.94	4.09	0.98	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.95	3.31	104.72	45.43	3.70	0.98	0.00	0.00	0.00	
9	0.00	0.00	0.00	1.76	3.12	98.90	45.18	3.51	0.78	0.00	0.00	0.00	
10	0.00	0.00	0.00	1.37	4.09	92.38	45.56	3.12	0.58	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.17	4.49	85.75	45.81	2.92	0.39	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.78	7.80	78.60	45.81	2.73	0.39	0.00	0.00	0.00	
13	0.00	0.00	1.56	0.39	13.75	72.53	45.69	2.34	0.19	0.00	0.00	0.00	
14	0.00	0.00	1.76	0.19	18.25	63.67	45.18	1.95	0.00	0.00	0.00	0.00	
15	0.00	0.00	1.76	0.19	19.75	57.93	44.68	1.56	0.00	0.00	0.00	0.00	
16	0.00	0.00	2.15	0.39	20.50	52.12	43.54	1.37	0.00	0.00	0.00	0.00	
17	0.00	0.00	3.12	0.98	26.18	49.60	42.03	1.56	0.00	0.00	0.00	0.00	
18	0.00	0.00	3.90	2.15	36.51	46.19	40.64	1.76	0.19	2.15	0.00	0.00	
19	0.00	0.00	3.31	3.12	47.01	43.29	38.75	1.76	0.19	1.95	0.00	0.00	
20	0.00	0.00	3.12	3.12	55.80	40.89	37.74	2.15	0.19	1.37	0.00	0.00	
21	0.00	0.00	3.12	3.12	62.60	37.36	36.73	1.95	0.39	0.98	0.00	0.00	
22	0.00	0.00	4.29	4.49	68.00	32.44	35.85	2.15	0.39	0.58	0.00	0.00	
23	0.00	0.00	6.24	6.05	75.69	20.50	34.21	1.95	0.19	0.00	0.00	0.00	
24	0.00	0.00	8.20	6.63	90.50	23.25	32.07	1.56	0.19	0.00	0.00	0.00	
25	0.00	0.00	8.80	6.24	105.20	32.95	27.60	1.56	0.19	0.00	0.00	0.00	
26	0.00	0.00	7.61	5.46	125.10	36.10	21.75	1.56	0.00	0.00	0.00	0.00	
27	0.00	0.00	6.05	4.09	151.00	38.25	18.00	1.56	0.00	0.00	0.00	0.00	
28	0.00	0.00	4.68	3.12	169.40	40.39	14.75	1.37	0.00	0.00	0.00	0.00	
29	0.00	0.00	3.51	2.92	176.75	41.40	12.25	0.78	0.00	0.00	0.00	0.00	
30	0.00	0.00	2.73	2.54	176.15	41.90	10.24	0.19	0.00	0.00		0.00	
31		0.00		2.54	176.00		8.60		0.00	0.00		0.00	
TOTAL	0.00	0.00	75.91	78.05	1656.26	2165.67	1138.90	82.71	11.10	7.03	0.00	0.38	5216.01 CMSDAY
MEAN	0.00	0.00	2.53	2.52	53.43	72.19	36.74	2.76	0.36	0.23	0.00	0.01	14.25 CMS
MAX	0.00	0.00	8.80	6.63	176.75	153.20	46.57	7.61	0.98	2.15	0.00	0.19	176.75 CMS
MIN	0.00	0.00	0.00	0.19	2.15	20.50	8.60	0.19	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	6.559	6.744	143.101	187.114	98.401	7.146	0.959	0.607	0.000	0.033	450.663 MCM

MOMENTARY PEAK 176.00 CMS, AT 8.30 M (A.D), AT 16.00 HOURS, ON AUG 31, 1987

RUNOFF YIELD 6.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

KHONG RIVER BASIN

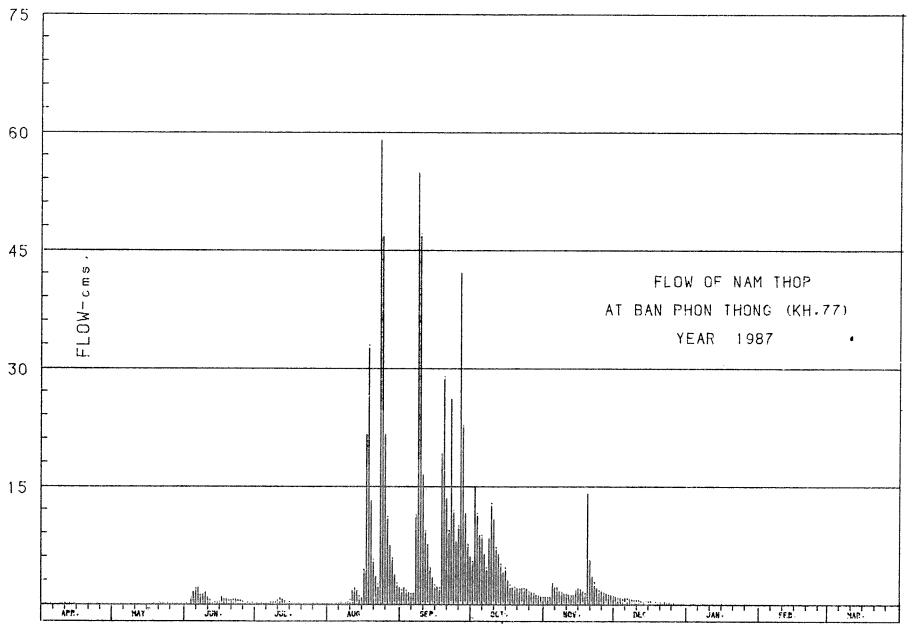
NAM THOP AT BAN PHON THONG, LOEI (KH.77)

LOCATION	LAT. 17°-15'-51" N. LONG. 101°-39'-26" E., ON LEFT BANK AT BAN PHON THONG, AMPHOE WANG SAPHUNG, LOEI.
DRAINAGE AREA	142 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE MEASURING LINE.
ELEVATION	+7.608 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 105 DISCHARGE MEASUREMENTS IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.48	0.48	0.50	0.47	0.75	1.05	0.62	0.62	0.48	0.44	0.43	
2	0.46	0.47	0.48	0.50	0.47	0.78	1.50	0.62	0.61	0.48	0.44	0.43	
3	0.45	0.46	0.62	0.49	0.46	0.74	1.38	0.62	0.60	0.47	0.44	0.43	
4	0.45	0.46	0.71	0.48	0.51	0.70	1.24	0.84	0.58	0.47	0.44	0.43	
5	0.45	0.46	0.77	0.47	0.51	0.68	1.24	0.78	0.60	0.46	0.44	0.44	
6	0.45	0.47	0.78	0.48	0.51	0.69	1.11	0.78	0.60	0.47	0.44	0.44	
7	0.44	0.48	0.66	0.52	0.50	1.37	1.00	0.72	0.58	0.48	0.44	0.43	
8	0.47	0.47	0.67	0.53	0.51	2.53	1.22	0.71	0.57	0.48	0.44	0.44	
9	0.48	0.46	0.70	0.52	0.53	2.38	1.43	0.68	0.56	0.46	0.43	0.43	
10	0.49	0.47	0.61	0.56	0.57	1.55	1.34	0.68	0.56	0.46	0.43	0.43	
11	0.49	0.47	0.57	0.60	0.73	1.27	1.16	0.66	0.56	0.46	0.45	0.43	
12	0.48	0.47	0.51	0.57	0.77	1.18	1.11	0.65	0.54	0.46	0.46	0.43	
13	0.47	0.48	0.52	0.54	0.73	1.00	1.03	0.65	0.53	0.46	0.45	0.43	
14	0.47	0.49	0.53	0.53	0.64	0.90	0.95	0.74	0.53	0.46	0.45	0.43	
15	0.47	0.48	0.53	0.53	0.60	0.82	1.00	0.77	0.54	0.46	0.44	0.43	
16	0.48	0.49	0.62	0.51	0.98	0.79	0.87	0.75	0.54	0.46	0.45	0.43	
17	0.48	0.49	0.58	0.51	1.72	0.78	0.82	0.72	0.53	0.46	0.45	0.43	
18	0.48	0.49	0.58	0.51	2.05	1.64	0.78	0.69	0.53	0.46	0.44	0.42	
19	0.48	0.49	0.56	0.50	1.44	1.95	0.79	1.47	0.52	0.46	0.44	0.43	
20	0.48	0.48	0.56	0.50	1.07	1.45	0.77	1.06	0.52	0.46	0.45	0.42	
21	0.48	0.48	0.57	0.49	0.91	1.27	0.76	0.91	0.52	0.45	0.45	0.42	
22	0.48	0.50	0.57	0.49	0.83	1.87	0.77	0.85	0.52	0.45	0.45	0.41	
23	0.48	0.51	0.56	0.50	2.60	1.40	0.77	0.77	0.51	0.45	0.45	0.41	
24	0.48	0.49	0.55	0.50	2.38	1.20	0.76	0.74	0.51	0.45	0.45	0.40	
25	0.47	0.49	0.53	0.50	1.72	1.30	0.72	0.72	0.50	0.45	0.45	0.40	
26	0.47	0.48	0.52	0.49	1.36	2.27	0.70	0.70	0.50	0.45	0.45	0.41	
27	0.48	0.48	0.52	0.49	1.17	1.76	0.69	0.68	0.48	0.45	0.44	0.42	
28	0.47	0.47	0.51	0.48	1.08	1.38	0.66	0.66	0.48	0.45	0.44	0.42	
29	0.47	0.47	0.51	0.48	0.93	1.18	0.64	0.65	0.48	0.44	0.44	0.42	
30	0.47	0.47	0.50	0.48	0.84	1.09	0.62	0.64	0.48	0.44		0.43	
31		0.47		0.47	0.78		0.62		0.48	0.44		0.42	
MEAN	0.47	0.48	0.58	0.51	0.98	1.29	0.95	0.75	0.54	0.46	0.44	0.42	
MAX	0.49	0.51	0.78	0.60	2.60	2.53	1.50	1.47	0.62	0.48	0.46	0.44	2.60
MIN	0.44	0.46	0.48	0.47	0.46	0.68	0.62	0.62	0.48	0.44	0.43	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.33 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.56 M (A.D)
LEFT BANK ELEVATION 7.00 M (A.D)
RIGHT BANK ELEVATION 7.93 M (A.D), DRAINAGE AREA 142 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	0.16	0.16	0.20	0.14	1.90	5.45	0.94	0.94	0.16	0.08	0.06	
2	0.12	0.14	0.16	0.20	0.14	2.14	15.00	0.94	0.87	0.16	0.08	0.06	
3	0.10	0.12	0.94	0.18	0.12	1.82	11.60	0.94	0.80	0.14	0.08	0.06	
4	0.10	0.12	1.58	0.16	0.26	1.50	8.80	2.74	0.68	0.14	0.08	0.06	
5	0.10	0.12	2.06	0.14	0.26	1.36	8.80	2.14	0.80	0.12	0.08	0.08	
6	0.10	0.14	2.14	0.16	0.26	1.43	6.38	2.14	0.80	0.14	0.08	0.08	
7	0.08	0.16	1.22	0.32	0.20	11.40	4.70	1.66	0.68	0.16	0.08	0.06	
8	0.14	0.14	1.29	0.38	0.26	54.80	8.40	1.58	0.62	0.16	0.08	0.08	
9	0.16	0.12	1.50	0.32	0.38	47.10	12.90	1.36	0.56	0.12	0.06	0.06	
10	0.18	0.14	0.87	0.56	0.62	16.50	10.80	1.36	0.56	0.12	0.06	0.06	
11	0.18	0.14	0.62	0.80	1.74	9.40	7.28	1.22	0.56	0.12	0.10	0.06	
12	0.16	0.14	0.26	0.62	2.06	7.64	6.38	1.15	0.44	0.12	0.12	0.06	
13	0.14	0.16	0.32	0.44	1.74	4.70	5.15	1.15	0.38	0.12	0.10	0.06	
14	0.14	0.18	0.38	0.38	1.08	3.40	4.05	1.82	0.38	0.12	0.10	0.06	
15	0.14	0.16	0.38	0.38	0.80	2.52	4.70	2.06	0.44	0.12	0.08	0.06	
16	0.16	0.18	0.94	0.26	4.44	2.22	3.07	1.90	0.44	0.12	0.10	0.06	
17	0.16	0.18	0.68	0.26	21.60	2.14	2.52	1.66	0.38	0.12	0.10	0.06	
18	0.16	0.18	0.68	0.26	33.00	19.20	2.14	1.43	0.38	0.12	0.08	0.04	
19	0.16	0.18	0.56	0.20	13.20	29.00	2.22	14.10	0.32	0.12	0.08	0.06	
20	0.16	0.16	0.56	0.20	5.75	13.50	2.06	5.60	0.32	0.12	0.10	0.04	
21	0.16	0.16	0.62	0.18	3.53	9.40	1.98	3.53	0.32	0.10	0.10	0.04	
22	0.16	0.20	0.62	0.18	2.63	26.10	2.06	2.85	0.32	0.10	0.10	0.02	
23	0.16	0.26	0.56	0.20	59.00	12.00	2.06	2.06	0.26	0.10	0.10	0.02	
24	0.16	0.18	0.50	0.20	47.10	8.00	1.98	1.82	0.26	0.10	0.10	0.00	
25	0.14	0.18	0.38	0.20	21.60	10.00	1.66	1.66	0.20	0.10	0.10	0.00	
26	0.14	0.16	0.32	0.18	11.20	42.15	1.50	1.50	0.20	0.10	0.10	0.02	
27	0.16	0.16	0.32	0.18	7.46	22.80	1.43	1.36	0.16	0.10	0.08	0.04	
28	0.14	0.14	0.26	0.16	5.90	11.60	1.22	1.22	0.16	0.10	0.08	0.04	
29	0.14	0.14	0.26	0.16	3.79	7.64	1.08	1.15	0.16	0.08	0.08	0.04	
30	0.14	0.14	0.20	0.16	2.74	6.05	0.94	1.08	0.16	0.08		0.06	
31		0.14		0.14	2.14		0.94		0.16	0.08		0.04	
TOTAL	4.26	4.88	21.34	8.36	255.14	389.41	149.25	66.12	13.71	3.66	2.56	1.54	920.23 CMSDAY
MEAN	0.14	0.16	0.71	0.27	8.23	12.98	4.81	2.20	0.44	0.12	0.09	0.05	2.51 CMS
MAX	0.18	0.26	2.14	0.80	59.00	54.80	15.00	14.10	0.94	0.16	0.12	0.08	59.00 CMS
MIN	0.08	0.12	0.16	0.14	0.12	1.36	0.94	0.94	0.16	0.08	0.06	0.00	0.00 CMS
RUNOFF	0.368	0.422	1.844	0.722	22.044	33.645	12.895	5.713	1.185	0.316	0.221	0.133	79.508 MCM

MOMENTARY PEAK 110.70 CMS, AT 3.33 M (A.D), AT 18.00 HOURS, ON AUG 23, 1987

RUNOFF YIELD 17.71 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 779.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

KHONG RIVER BASIN

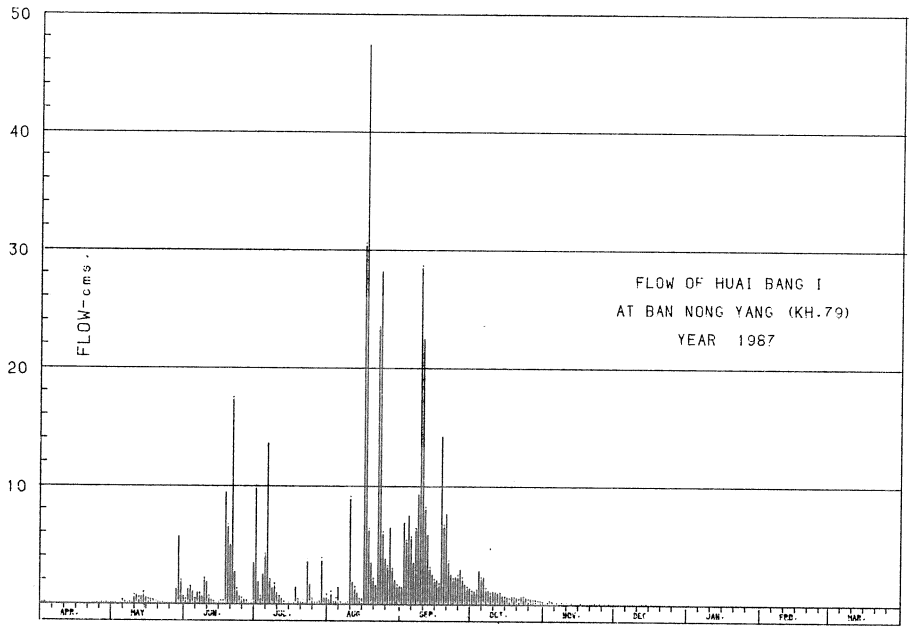
HUAI BANG I AT BAN NON YANG, MUK DAHAN (KH.79)

LOCATION	LAT.16°-28'-49" N., LONG. 104°-20'-08" E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY, BAN NON YANG, AMPHOE KHAM CHA I, MUK DAHAN.
DRAINAGE AREA	110 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	AT ABUTMENT OF THE BRIDGE.
ELEVATION	+9.673 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	0.75	0.85	1.67	0.83	0.99	0.96	0.80	0.73	0.68	0.66	0.66	
2	0.75	0.74	0.97	1.04	0.95	1.46	0.95	0.80	0.73	0.68	0.66	0.67	
3	0.74	0.74	1.00	0.90	0.81	1.36	0.97	0.83	0.73	0.68	0.66	0.67	
4	0.74	0.79	0.94	1.11	0.87	1.50	1.14	0.81	0.73	0.68	0.66	0.68	
5	0.74	0.83	0.86	1.27	0.99	1.38	1.09	0.80	0.73	0.67	0.66	0.68	
6	0.74	0.79	0.93	1.86	0.80	1.20	1.09	0.80	0.72	0.67	0.66	0.68	
7	0.74	0.78	0.93	1.07	0.78	1.43	0.99	0.80	0.72	0.67	0.66	0.68	
8	0.74	0.78	0.88	0.98	0.75	1.62	0.96	0.80	0.72	0.67	0.66	0.68	
9	0.74	0.79	1.08	1.03	0.80	2.45	0.94	0.80	0.72	0.67	0.66	0.68	
10	0.74	0.91	1.04	0.93	1.61	2.21	0.95	0.79	0.72	0.67	0.66	0.68	
11	0.74	0.90	0.90	0.90	1.04	1.55	0.94	0.78	0.72	0.67	0.66	0.68	
12	0.74	0.88	0.83	0.85	1.00	1.39	0.93	0.78	0.72	0.67	0.66	0.67	
13	0.74	0.88	0.81	0.81	0.93	1.17	0.94	0.77	0.72	0.67	0.66	0.67	
14	0.73	0.94	0.79	0.79	0.86	1.11	0.90	0.77	0.72	0.67	0.66	0.67	
15	0.73	0.86	0.80	0.77	0.85	1.07	0.90	0.77	0.71	0.67	0.66	0.67	
16	0.73	0.85	0.82	0.76	2.52	1.06	0.88	0.77	0.71	0.67	0.66	0.67	
17	0.73	0.84	0.82	0.75	3.06	1.03	0.87	0.77	0.71	0.67	0.66	0.67	
18	0.76	0.83	1.63	0.99	1.43	1.89	0.89	0.76	0.70	0.67	0.66	0.67	
19	0.76	0.78	1.45	0.85	1.20	1.45	0.89	0.76	0.70	0.67	0.66	0.67	
20	0.75	0.78	1.33	0.80	1.08	1.51	0.87	0.76	0.70	0.67	0.66	0.67	
21	0.75	0.77	2.02	0.84	1.01	1.22	0.86	0.76	0.69	0.67	0.66	0.67	
22	0.75	0.77	1.13	0.79	2.25	1.11	0.89	0.75	0.69	0.67	0.65	0.67	
23	0.75	0.77	0.98	1.23	2.43	1.08	0.90	0.75	0.69	0.67	0.65	0.67	
24	0.75	0.76	0.89	1.02	1.41	1.09	0.87	0.74	0.69	0.67	0.65	0.67	
25	0.75	0.76	0.87	0.86	1.23	1.11	0.86	0.74	0.69	0.67	0.65	0.66	
26	0.75	0.75	0.83	0.80	1.18	1.15	0.85	0.74	0.68	0.67	0.65	0.66	
27	0.75	0.78	0.82	0.78	1.43	1.09	0.84	0.74	0.68	0.67	0.65	0.66	
28	0.75	1.00	0.80	0.81	1.16	1.02	0.84	0.74	0.68	0.66	0.66	0.66	
29	0.75	1.38	0.82	1.24	1.06	1.00	0.83	0.73	0.68	0.66	0.66	0.66	
30	0.75	1.06	1.20	0.86	1.02	0.98	0.83	0.73	0.68	0.66		0.66	
31		0.89		0.92	1.00		0.81		0.68	0.66		0.66	
MEAN	0.74	0.84	1.00	0.98	1.24	1.32	0.92	0.77	0.71	0.67	0.66	0.67	
MAX	0.76	1.38	2.02	1.86	3.06	2.45	1.14	0.83	0.73	0.68	0.66	0.68	3.06
MIN	0.73	0.74	0.79	0.75	0.75	0.98	0.81	0.73	0.68	0.66	0.65	0.66	0.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.70 M (A.D), AT 9.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.52 M (A.D)
LEFT BANK ELEVATION 8.13 M (A.D)
RIGHT BANK ELEVATION 8.19 M (A.D), DRAINAGE AREA 110 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.13	0.45	10.05	0.35	1.42	1.18	0.20	0.10	0.03	0.01	0.01	
2	0.13	0.11	1.26	1.86	1.10	6.90	1.10	0.20	0.10	0.03	0.01	0.02	
3	0.11	0.11	1.50	0.70	0.25	5.44	1.26	0.35	0.10	0.03	0.01	0.02	
4	0.11	0.19	1.02	2.51	0.55	7.50	2.84	0.25	0.10	0.03	0.01	0.03	
5	0.11	0.35	0.50	4.27	1.42	5.72	2.31	0.20	0.10	0.02	0.01	0.03	
6	0.11	0.19	0.94	13.60	0.20	3.50	2.31	0.20	0.08	0.02	0.01	0.03	
7	0.11	0.17	0.94	2.13	0.17	6.45	1.42	0.20	0.08	0.02	0.01	0.03	
8	0.11	0.17	0.60	1.34	0.13	9.30	1.18	0.20	0.08	0.02	0.01	0.03	
9	0.11	0.19	2.22	1.77	0.20	28.70	1.02	0.20	0.08	0.02	0.01	0.03	
10	0.11	0.78	1.86	0.94	9.15	22.46	1.10	0.19	0.08	0.02	0.01	0.03	
11	0.11	0.70	0.70	0.70	1.86	8.25	1.02	0.17	0.08	0.02	0.01	0.03	
12	0.11	0.60	0.35	0.45	1.50	5.86	0.94	0.17	0.08	0.02	0.01	0.02	
13	0.11	0.60	0.25	0.25	0.94	3.17	1.02	0.15	0.08	0.02	0.01	0.02	
14	0.10	1.02	0.19	0.19	0.50	2.51	0.70	0.15	0.08	0.02	0.01	0.02	
15	0.10	0.50	0.20	0.15	0.45	2.13	0.70	0.15	0.06	0.02	0.01	0.02	
16	0.10	0.45	0.30	0.14	30.60	2.04	0.60	0.15	0.06	0.02	0.01	0.02	
17	0.10	0.40	0.30	0.13	47.40	1.77	0.55	0.15	0.06	0.02	0.01	0.02	
18	0.14	0.35	9.45	1.42	6.45	14.20	0.65	0.14	0.05	0.02	0.01	0.02	
19	0.14	0.17	6.75	0.45	3.50	6.75	0.65	0.14	0.05	0.02	0.01	0.02	
20	0.13	0.17	5.02	0.20	2.22	7.65	0.55	0.14	0.05	0.02	0.01	0.02	
21	0.13	0.15	17.52	0.40	1.59	3.72	0.50	0.14	0.04	0.02	0.01	0.02	
22	0.13	0.15	2.73	0.19	23.50	2.51	0.65	0.13	0.04	0.02	0.00	0.02	
23	0.13	0.15	1.34	3.83	28.18	2.22	0.70	0.13	0.04	0.02	0.00	0.02	
24	0.13	0.14	0.65	1.68	6.15	2.31	0.55	0.11	0.04	0.02	0.00	0.02	
25	0.13	0.14	0.55	0.50	3.83	2.51	0.50	0.11	0.04	0.02	0.00	0.01	
26	0.13	0.13	0.35	0.20	3.28	2.95	0.45	0.11	0.03	0.02	0.00	0.01	
27	0.13	0.17	0.30	0.17	6.45	2.31	0.40	0.11	0.03	0.02	0.00	0.01	
28	0.13	1.50	0.20	0.25	3.06	1.68	0.40	0.11	0.03	0.01	0.01	0.01	
29	0.13	5.72	0.30	3.94	2.04	1.50	0.35	0.10	0.03	0.01	0.01	0.01	
30	0.13	2.04	3.50	0.50	1.68	1.34	0.35	0.10	0.03	0.01		0.01	
31		0.65		0.86	1.50		0.25		0.03	0.01		0.01	
TOTAL	3.58	18.29	62.24	55.77	190.20	174.77	28.20	4.85	1.93	0.62	0.23	0.62	541.30 CMSDAY
MEAN	0.12	0.59	2.07	1.80	6.14	5.83	0.91	0.16	0.06	0.02	0.01	0.02	1.48 CMS
MAX	0.14	5.72	17.52	13.60	47.40	28.70	2.84	0.35	0.10	0.03	0.01	0.03	47.40 CMS
MIN	0.10	0.11	0.19	0.13	0.13	1.34	0.25	0.10	0.03	0.01	0.00	0.01	0.00 CMS
RUNOFF	0.309	1.580	5.378	4.819	16.433	15.100	2.436	0.419	0.167	0.054	0.020	0.054	46.768 MCM

MOMENTARY PEAK 122.00 CMS, AT 4.70 M (A.D), AT 9.00 HOURS, ON AUG 17, 1987

RUNOFF YIELD 13.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1109.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

KHONG RIVER BASIN

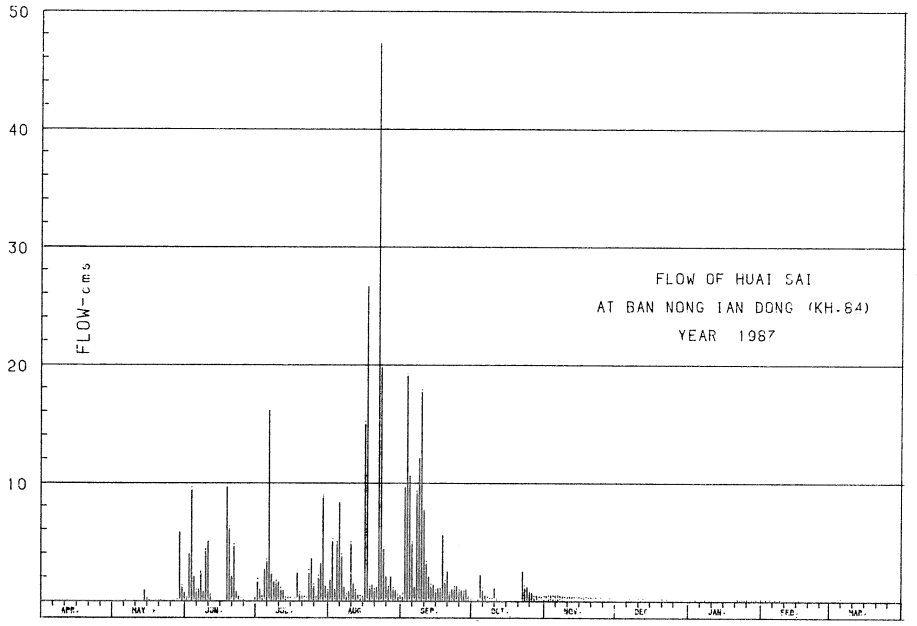
HUAI SAI AT BAN NONG IAN DONG, MUK DAHAN (KH.84)

LOCATION	LAT. 16°-32'-15" N., LONG. 104°-24'-20" E., ON LEFT BANK AT THE BRIDGE OF BAN HUAI SAI-BAN NONG IAN DONG ROAD, AMPHOE KHAM CHA-I, MUK DAHAN.
DRAINAGE AREA	48 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPARTMENT.
LOCATION	ON LEFT BANK DOWNSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+6.037 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON APR.21,1987. STAGE-DISCHARGE RELATION DEFINED BY 13 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	1.22	1.36	1.53	1.52	1.42	1.34	1.39	1.34	1.32	1.32	1.31	
2	*******	1.22	1.65	1.45	1.71	1.86	1.34	1.40	1.34	1.32	1.32	1.31	
3	*******	1.21	1.86	1.39	1.45	2.10	1.39	1.40	1.34	1.32	1.32	1.34	
4	*******	1.27	1.54	1.58	1.70	1.89	1.55	1.40	1.34	1.32	1.32	1.34	
5	*******	1.31	1.45	1.63	1.82	1.70	1.47	1.40	1.34	1.32	1.32	1.34	
6	*******	1.31	1.45	2.03	1.65	1.47	1.39	1.40	1.34	1.32	1.32	1.32	
7	*******	1.29	1.57	1.57	1.47	1.85	1.37	1.39	1.34	1.32	1.32	1.30	
8	*******	1.26	1.43	1.51	1.42	1.93	1.35	1.38	1.34	1.32	1.32	1.30	
9	*******	1.28	1.67	1.52	1.43	2.07	1.35	1.37	1.34	1.31	1.32	1.30	
10	*******	1.28	1.70	1.51	1.70	1.80	1.46	1.37	1.34	1.31	1.32	1.30	
11	*******	1.27	1.41	1.47	1.50	1.62	1.36	1.38	1.34	1.31	1.32	1.29	
12	*******	1.27	1.32	1.44	1.45	1.54	1.34	1.37	1.34	1.31	1.32	1.29	
13	*******	1.26	1.27	1.37	1.40	1.50	1.33	1.37	1.33	1.31	1.32	1.29	
14	*******	1.46	1.26	1.36	1.40	1.49	1.32	1.37	1.33	1.31	1.32	1.29	
15	*******	1.35	1.26	1.36	1.38	1.45	1.31	1.37	1.33	1.31	1.32	1.29	
16	*******	1.31	1.23	1.35	2.01	1.46	1.30	1.36	1.33	1.31	1.31	1.28	
17	*******	1.29	1.23	1.35	2.24	1.46	1.30	1.36	1.33	1.31	1.31	1.28	
18	*******	1.29	1.86	1.56	1.48	1.72	1.31	1.37	1.33	1.31	1.31	1.28	
19	*******	1.32	1.75	1.43	1.49	1.52	1.35	1.36	1.34	1.31	1.31	1.28	
20	*******	1.29	1.54	1.38	1.46	1.57	1.32	1.36	1.33	1.32	1.31	1.28	
21	1.26	1.31	1.69	1.38	1.47	1.43	1.30	1.36	1.33	1.32	1.31	1.28	
22	1.26	1.28	1.43	1.36	2.55	1.45	1.57	1.36	1.33	1.32	1.31	1.32	
23	1.26	1.27	1.38	1.58	2.11	1.48	1.49	1.36	1.32	1.32	1.30	1.32	
24	1.26	1.27	1.35	1.63	1.68	1.48	1.47	1.36	1.32	1.32	1.30	1.32	
25	1.26	1.27	1.31	1.50	1.54	1.45	1.45	1.35	1.32	1.32	1.30	1.32	
26	1.26	1.27	1.30	1.37	1.48	1.44	1.42	1.35	1.32	1.32	1.30	1.32	
27	1.26	1.27	1.29	1.55	1.54	1.44	1.40	1.35	1.32	1.32	1.30	1.32	
28	1.26	1.33	1.27	1.61	1.47	1.45	1.39	1.35	1.32	1.32	1.31	1.30	
29	1.24	1.73	1.27	1.84	1.44	1.38	1.38	1.34	1.32	1.32	1.31	1.28	
30	1.23	1.49	1.35	1.48	1.41	1.34	1.37	1.34	1.32	1.32		1.26	
31		1.42		1.45	1.39		1.39		1.32	1.32		1.26	
MEAN	*******	1.31	1.45	1.50	1.61	1.59	1.38	1.37	1.33	1.32	1.31	1.30	
MAX	1.26	1.73	1.86	2.03	2.55	2.10	1.57	1.40	1.34	1.32	1.32	1.34	2.55
MIN	*******	1.21	1.23	1.35	1.38	1.34	1.30	1.34	1.32	1.31	1.30	1.26	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.92 M (A.D), AT 5.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.59 M (A.D)
LEFT BANK ELEVATION 4.47 M (A.D)
RIGHT BANK ELEVATION 4.46 M (A.D), DRAINAGE AREA 48 SQUARE KILOMETERS



DISCHARGE IN CUBIC METER PER SECOND WATER YEAR APRIL 1 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.000	0.314	1.903	1.752	0.682	0.226	0.446	0.226	0.138	0.138	0.094	
2	*******	0.000	3.995	0.970	5.295	9.630	0.226	0.490	0.226	0.138	0.138	0.094	
3	*******	0.000	9.630	0.446	0.970	19.260	0.446	0.490	0.226	0.138	0.138	0.226	
4	*******	0.020	2.054	2.658	5.030	10.605	2.205	0.490	0.226	0.138	0.138	0.226	
5	*******	0.094	0.970	3.581	8.330	5.030	1.162	0.490	0.226	0.138	0.138	0.226	
6	*******	0.094	0.970	16.131	3.995	1.162	0.446	0.490	0.226	0.138	0.138	0.138	
7	*******	0.040	2.507	2.507	1.162	9.305	0.358	0.446	0.226	0.138	0.138	0.050	
8	*******	0.010	0.778	1.601	0.682	12.088	0.270	0.402	0.226	0.138	0.138	0.050	
9	*******	0.030	4.409	1.752	0.778	17.919	0.270	0.358	0.226	0.094	0.138	0.050	
10	*******	0.030	5.030	1.601	5.030	7.680	1.066	0.358	0.226	0.094	0.138	0.050	
11	*******	0.020	0.586	1.162	1.450	3.374	0.314	0.402	0.226	0.094	0.138	0.040	
12	*******	0.020	0.138	0.874	0.970	2.054	0.226	0.358	0.226	0.094	0.138	0.040	
13	*******	0.010	0.020	0.358	0.490	1.450	0.182	0.358	0.182	0.094	0.138	0.040	
14	*******	1.066	0.010	0.314	0.490	1.354	0.138	0.358	0.182	0.094	0.138	0.040	
15	*******	0.270	0.010	0.314	0.402	0.970	0.094	0.358	0.182	0.094	0.138	0.040	
16	*******	0.094	0.000	0.270	15.237	1.066	0.050	0.314	0.182	0.094	0.094	0.030	
17	*******	0.040	0.000	0.270	26.642	1.066	0.050	0.314	0.182	0.094	0.094	0.030	
18	*******	0.040	9.630	2.356	1.258	5.560	0.094	0.358	0.182	0.094	0.094	0.030	
19	*******	0.138	6.355	0.778	1.354	1.752	0.270	0.314	0.226	0.094	0.094	0.030	
20	*******	0.040	2.054	0.402	1.066	2.507	0.138	0.314	0.182	0.138	0.094	0.030	
21	0.010	0.094	4.823	0.402	1.162	0.778	0.050	0.314	0.182	0.138	0.094	0.030	
22	0.010	0.030	0.778	0.314	47.300	0.970	2.507	0.314	0.182	0.138	0.094	0.138	
23	0.010	0.020	0.402	2.658	19.769	1.258	1.354	0.314	0.138	0.138	0.050	0.138	
24	0.010	0.020	0.270	3.581	4.616	1.258	1.162	0.314	0.138	0.138	0.050	0.138	
25	0.010	0.020	0.094	1.450	2.054	0.970	0.970	0.270	0.138	0.138	0.050	0.138	
26	0.010	0.020	0.050	0.358	1.258	0.874	0.682	0.270	0.138	0.138	0.050	0.138	
27	0.010	0.020	0.040	2.205	2.054	0.874	0.490	0.270	0.138	0.138	0.050	0.138	
28	0.010	0.182	0.020	3.167	1.162	0.970	0.446	0.270	0.138	0.138	0.094	0.050	
29	0.000	5.825	0.020	8.980	0.874	0.402	0.402	0.226	0.138	0.138	0.094	0.030	
30	0.000	1.354	0.270	1.258	0.586	0.226	0.358	0.226	0.138	0.138		0.010	
31		0.682		0.970	0.446		0.446		0.138	0.138		0.010	
TOTAL	*******	10.323	56.227	65.591	163.664	123.094	17.098	10.696	5.818	3.794	3.166	2.512	******** CMSDAY
MEAN	*******	0.333	1.874	2.116	5.279	4.103	0.552	0.357	0.188	0.122	0.109	0.081	******** CMS
MAX	0.010	5.825	9.630	16.131	47.300	19.260	2.507	0.490	0.226	0.138	0.138	0.226	47.300 CMS
MIN	*******	0.000	0.000	0.270	0.402	0.226	0.050	0.226	0.138	0.094	0.050	0.010	******** CMS
RUNOFF	*******	0.892	4.858	5.667	14.141	10.635	1.477	0.924	0.503	0.328	0.274	0.217	******** MCM

MOMENTARY PEAK 80.18 CMS, AT 2.92 M (A.D), AT 5.00 HOURS, ON AUG 17, 1987
RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1670.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

KHONG RIVER BASIN

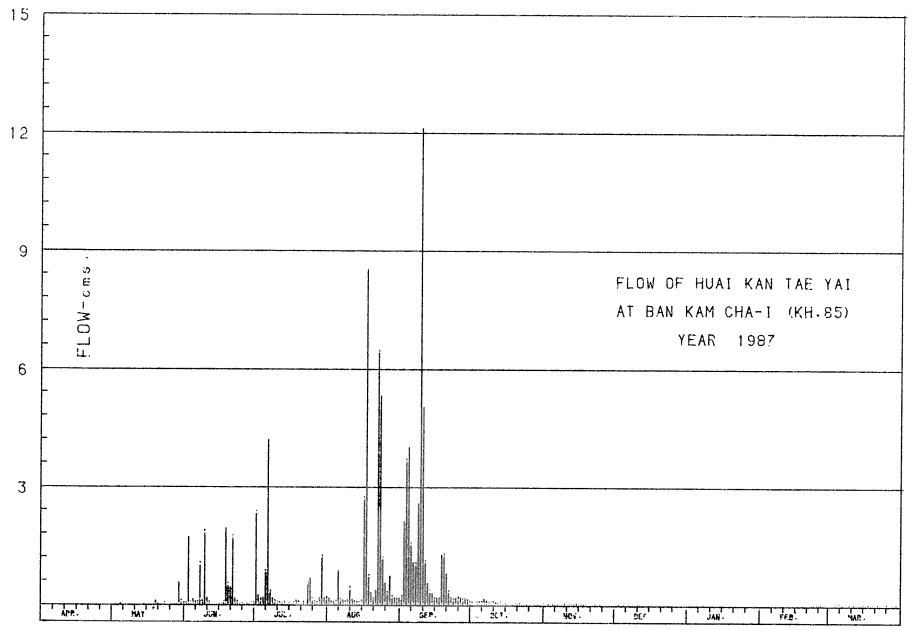
HUAI KHAN THAE YAI AT BAN KHAM CHA-I, MUK DAHAN (KH.85)

LOCATION	LAT. 16°-31'-12" N., LONG. 104°-21'-58" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN KHAM CHA-I, MUK DAHAN.
DRAINAGE AREA	28 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPARTMENT.
LOCATION	ON RIGHT BANK DOWNSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+6.657 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON APR.20.1987. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.20	0.26	1.00	0.37	0.42	0.30	0.25	0.22	0.21	0.21	0.25	
2	*******	0.20	0.85	0.42	0.30	0.94	0.28	0.25	0.23	0.21	0.20	0.25	
3	*******	0.20	0.29	0.37	0.29	1.22	0.30	0.26	0.22	0.22	0.20	0.25	
4	*******	0.25	0.35	0.39	0.32	1.27	0.30	0.25	0.22	0.22	0.20	0.28	
5	*******	0.22	0.29	0.65	0.64	0.82	0.31	0.25	0.22	0.22	0.20	0.27	
6	*******	0.21	0.30	1.30	0.37	0.71	0.36	0.25	0.22	0.22	0.20	0.27	
7	*******	0.21	0.71	0.47	0.33	0.71	0.32	0.25	0.23	0.22	0.20	0.26	
8	*******	0.21	0.33	0.37	0.31	1.03	0.29	0.27	0.25	0.22	0.20	0.25	
9	*******	0.20	0.89	0.33	0.34	2.19	0.31	0.28	0.25	0.22	0.20	0.25	
10	*******	0.20	0.38	0.30	0.51	1.42	0.31	0.27	0.24	0.22	0.20	0.25	
11	*******	0.20	0.29	0.28	0.35	0.72	0.28	0.27	0.24	0.21	0.20	0.25	
12	*******	0.20	0.26	0.28	0.31	0.54	0.28	0.26	0.23	0.21	0.21	0.25	
13	*******	0.20	0.25	0.29	0.30	0.48	0.30	0.26	0.23	0.21	0.22	0.25	
14	*******	0.23	0.25	0.28	0.29	0.44	0.28	0.26	0.23	0.21	0.22	0.25	
15	*******	0.23	0.24	0.27	0.33	0.40	0.27	0.26	0.23	0.21	0.22	0.25	
16	*******	0.23	0.24	0.28	1.06	0.39	0.26	0.25	0.22	0.21	0.22	0.25	
17	*******	0.23	0.30	0.28	1.83	0.40	0.25	0.25	0.22	0.21	0.22	0.25	
18	*******	0.22	0.90	0.32	0.61	0.75	0.25	0.25	0.22	0.21	0.22	0.25	
19	*******	0.31	0.54	0.30	0.45	0.76	0.26	0.25	0.22	0.21	0.22	0.25	
20	0.20	0.23	0.50	0.28	0.39	0.62	0.26	0.24	0.22	0.21	0.22	0.25	
21	0.20	0.23	0.86	0.29	0.47	0.47	0.27	0.24	0.23	0.21	0.22	0.25	
22	0.20	0.22	0.37	0.27	1.61	0.40	0.26	0.24	0.23	0.21	0.23	0.25	
23	0.20	0.22	0.31	0.55	1.46	0.38	0.29	0.23	0.23	0.21	0.24	0.25	
24	0.20	0.22	0.27	0.58	0.74	0.38	0.27	0.23	0.23	0.21	0.25	0.25	
25	0.20	0.22	0.26	0.39	0.54	0.41	0.26	0.22	0.22	0.21	0.25	0.25	
26	0.20	0.22	0.25	0.31	0.46	0.39	0.25	0.21	0.21	0.21	0.25	0.25	
27	0.20	0.22	0.25	0.29	0.60	0.37	0.25	0.21	0.21	0.21	0.25	0.25	
28	0.20	0.23	0.25	0.38	0.42	0.38	0.24	0.21	0.21	0.21	0.25	0.25	
29	0.20	0.54	0.27	0.75	0.39	0.35	0.24	0.21	0.21	0.20	0.25	0.25	
30	0.20	0.33	0.28	0.38	0.38	0.32	0.25	0.21	0.21	0.20		0.25	
31		0.28		0.41	0.38		0.26		0.20	0.21		0.25	
MEAN	*******	0.24	0.39	0.42	0.55	0.67	0.28	0.24	0.22	0.21	0.22	0.25	
MAX	0.20	0.54	0.90	1.30	1.83	2.19	0.36	0.28	0.25	0.22	0.25	0.28	2.19
MIN	*******	0.20	0.24	0.27	0.29	0.32	0.24	0.21	0.20	0.20	0.20	0.25	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.05 M (A.D), AT 6.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.04 M (A.D)
LEFT BANK ELEVATION 5.28 M (A.D)
RIGHT BANK ELEVATION 5.61 M (A.D), DRAINAGE AREA 28 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.00	0.06	2.40	0.17	0.25	0.10	0.05	0.02	0.01	0.01	0.05	
2	*******	0.00	1.73	0.25	0.10	2.13	0.08	0.05	0.03	0.01	0.00	0.05	
3	*******	0.00	0.09	0.17	0.09	3.72	0.10	0.06	0.02	0.02	0.00	0.05	
4	*******	0.05	0.15	0.19	0.12	4.02	0.10	0.05	0.02	0.02	0.00	0.08	
5	*******	0.02	0.09	0.90	0.87	1.59	0.11	0.05	0.02	0.02	0.00	0.07	
6	*******	0.01	0.10	4.20	0.17	1.09	0.16	0.05	0.02	0.02	0.00	0.07	
7	*******	0.01	1.09	0.38	0.13	1.09	0.12	0.05	0.03	0.02	0.00	0.06	
8	*******	0.01	0.13	0.17	0.11	2.58	0.09	0.07	0.05	0.02	0.00	0.05	
9	*******	0.00	1.91	0.13	0.14	12.19	0.11	0.08	0.05	0.02	0.00	0.05	
10	*******	0.00	0.18	0.10	0.48	5.04	0.11	0.07	0.04	0.02	0.00	0.05	
11	*******	0.00	0.09	0.08	0.15	1.14	0.08	0.07	0.04	0.01	0.00	0.05	
12	*******	0.00	0.06	0.08	0.11	0.57	0.08	0.06	0.03	0.01	0.01	0.05	
13	*******	0.00	0.05	0.09	0.10	0.40	0.10	0.06	0.03	0.01	0.02	0.05	
14	*******	0.03	0.05	0.08	0.09	0.30	0.08	0.06	0.03	0.01	0.02	0.05	
15	*******	0.03	0.04	0.07	0.13	0.20	0.07	0.06	0.03	0.01	0.02	0.05	
16	*******	0.03	0.04	0.08	2.76	0.19	0.06	0.05	0.02	0.01	0.02	0.05	
17	*******	0.03	0.10	0.08	8.50	0.20	0.05	0.05	0.02	0.01	0.02	0.05	
18	*******	0.02	1.95	0.12	0.78	1.28	0.05	0.05	0.02	0.01	0.02	0.05	
19	*******	0.11	0.57	0.10	0.32	1.32	0.06	0.05	0.02	0.01	0.02	0.05	
20	0.00	0.03	0.45	0.08	0.19	0.81	0.06	0.04	0.02	0.01	0.02	0.05	
21	0.00	0.03	1.77	0.09	0.38	0.38	0.07	0.04	0.03	0.01	0.02	0.05	
22	0.00	0.02	0.17	0.07	6.48	0.20	0.06	0.04	0.03	0.01	0.03	0.05	
23	0.00	0.02	0.11	0.60	5.32	0.18	0.09	0.03	0.03	0.01	0.04	0.05	
24	0.00	0.02	0.07	0.69	1.23	0.18	0.07	0.03	0.03	0.01	0.05	0.05	
25	0.00	0.02	0.06	0.19	0.57	0.22	0.06	0.02	0.02	0.01	0.05	0.05	
26	0.00	0.02	0.05	0.11	0.35	0.19	0.05	0.01	0.01	0.01	0.05	0.05	
27	0.00	0.02	0.05	0.09	0.75	0.17	0.05	0.01	0.01	0.01	0.05	0.05	
28	0.00	0.03	0.05	0.18	0.25	0.18	0.04	0.01	0.01	0.01	0.05	0.05	
29	0.00	0.57	0.07	1.28	0.19	0.15	0.04	0.01	0.01	0.00	0.05	0.05	
30	0.00	0.13	0.08	0.18	0.18	0.12	0.05	0.01	0.01	0.00		0.05	
31		0.08		0.22	0.18		0.06		0.00	0.01		0.05	
TOTAL	*******	1.34	11.41	13.45	31.39	42.08	2.41	1.34	0.75	0.37	0.57	1.63	******** CMSDAY
MEAN	*******	0.04	0.38	0.43	1.01	1.40	0.08	0.04	0.02	0.01	0.02	0.05	******** CMS
MAX	0.00	0.57	1.95	4.20	8.50	12.19	0.16	0.08	0.05	0.02	0.05	0.08	12.19 CMS
MIN	*******	0.00	0.04	0.07	0.09	0.12	0.04	0.01	0.00	0.00	0.00	0.05	******** CMS
RUNOFF	*******	0.116	0.986	1.162	2.712	3.636	0.208	0.116	0.065	0.032	0.049	0.141	******** MCM

MOMENTARY PEAK 23.10 CMS, AT 3.05 M (A.D), AT 6.00 HOURS, ON AUG 17, 1987

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 825.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

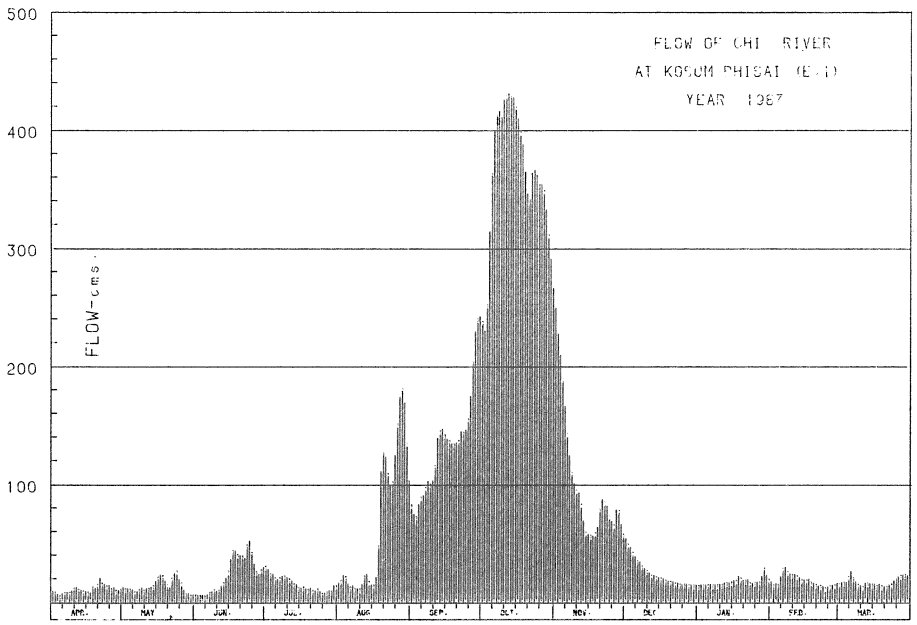
CHI RIVER AT KOSUM PHISAI, MAHA SARAKHAM (E.1)

LOCATION	LAT. 16°-15'-02" N., LONG. 103°-04'-25" E., ON RIGHT BANK AT WAT TAI KOSUM ABOUT 800 METERS NORTH-EAST OF AMPHOE KOSUM PHISAI OFFICE, MAHA SARAKHAM.
DRAINAGE AREA	29,788 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+136.64 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+150.883 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, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1973, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY NAM PHONG DAM ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 34 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	136.86	136.97	136.76	137.53	137.09	138.59	140.93	141.07	138.05	137.03	137.13	137.08	
2	136.84	136.94	136.74	137.46	137.17	138.45	140.83	140.84	137.96	137.04	137.05	137.11	
3	136.77	136.93	136.75	137.36	137.31	138.42	141.11	140.57	137.90	137.04	137.08	137.12	
4	136.74	136.93	136.75	137.35	137.28	138.59	141.88	140.29	137.82	137.04	137.06	137.11	
5	136.78	136.90	136.73	137.25	137.07	138.70	142.50	139.95	137.73	137.06	137.27	137.29	
6	136.83	136.85	136.76	137.19	136.99	138.72	142.90	139.61	137.65	137.05	137.49	137.41	
7	136.83	136.85	136.84	137.25	137.02	138.84	143.07	139.29	137.62	137.05	137.50	137.25	
8	136.83	136.91	136.85	137.28	136.95	138.92	143.08	139.05	137.54	137.05	137.42	137.13	
9	136.87	136.95	136.91	137.30	136.93	138.89	143.07	138.89	137.48	137.05	137.35	137.06	
10	136.95	136.90	136.86	137.25	136.93	138.93	143.19	138.80	137.44	137.06	137.34	137.02	
11	136.97	136.94	136.89	137.22	137.06	139.15	143.24	138.76	137.38	137.07	137.34	137.00	
12	136.92	136.95	137.01	137.15	137.30	139.54	143.25	138.60	137.32	137.10	137.30	137.09	
13	136.89	136.98	137.11	137.08	137.34	139.65	143.25	138.35	137.31	137.11	137.24	137.11	
14	136.87	137.03	137.23	137.05	137.14	139.67	143.21	138.16	137.28	137.10	137.20	137.08	
15	136.85	137.14	137.43	136.97	137.04	139.59	143.13	138.12	137.25	137.14	137.18	137.07	
16	136.84	137.27	137.67	136.95	137.04	139.53	143.01	138.11	137.24	137.17	137.18	137.06	
17	136.81	137.32	137.85	136.99	137.25	139.51	142.89	138.09	137.22	137.17	137.20	137.03	
18	136.99	137.31	137.84	136.93	137.93	139.46	142.77	138.15	137.18	137.28	137.13	137.06	
19	136.94	137.15	137.78	136.92	139.06	139.46	142.55	138.24	137.15	137.24	137.09	137.02	
20	137.07	137.05	137.75	136.95	139.34	139.47	142.28	138.53	137.14	137.17	137.06	136.99	
21	137.23	136.96	137.75	136.89	139.27	139.51	142.25	138.66	137.13	137.18	137.01	137.01	
22	137.10	137.24	137.69	136.87	139.04	139.63	142.50	138.63	137.10	137.19	137.03	137.04	
23	137.06	137.36	137.95	136.93	138.85	139.63	142.57	138.57	137.09	137.11	137.00	137.07	
24	137.02	137.43	138.01	136.86	138.92	139.66	142.48	138.44	137.07	137.09	136.96	137.15	
25	137.03	137.19	137.82	136.81	139.29	139.80	142.43	138.34	137.05	137.12	136.98	137.21	
26	136.94	137.11	137.57	136.81	139.74	140.07	142.38	138.29	137.07	137.12	137.02	137.27	
27	136.97	136.89	137.42	136.85	140.06	140.49	142.32	138.51	137.07	137.13	137.03	137.32	
28	136.90	136.79	137.33	136.88	140.17	140.82	142.11	138.51	137.05	137.28	137.05	137.32	
29	136.88	136.79	137.46	136.87	139.99	140.96	141.85	138.29	137.04	137.50	137.08	137.34	
30	136.92	136.76	137.50	137.02	139.47	140.98	141.59	138.13	137.04	137.31		137.30	
31		136.76		137.02	138.93		141.33		137.04	137.21		137.27	
MEAN	136.92	137.02	137.30	137.07	138.10	139.45	142.45	138.86	137.34	137.14	137.16	137.14	
MAX	137.23	137.43	138.01	137.53	140.17	140.98	143.25	141.07	138.05	137.50	137.41		143.25
MIN	136.74	136.76	136.73	136.81	136.93	138.42	140.83	138.09	137.04	137.03	136.96	136.99	136.73

ANNUAL MAX MOMENTARY GAGE HEIGHT 143.25 M (MSL), AT 24.00 HOURS, ON OCT 11, 1987
ZERO GAGE AT BOTTOM ELEVATION 136.64 M (MSL), RIVER BED 126.29 M (MSL)
LEFT BANK ELEVATION 147.39 M (MSL)
RIGHT BANK ELEVATION 150.61 M (MSL), DRAINAGE AREA 29788 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.8	13.1	6.8	31.2	16.7	83.3	238.4	249.6	54.5	14.9	17.9	16.4	
2	9.2	12.2	6.2	28.4	19.1	75.0	230.4	231.2	50.0	15.2	15.5	17.3	
3	7.1	11.9	6.5	24.8	23.3	73.2	252.8	209.9	47.0	15.2	16.4	17.6	
4	6.2	11.9	6.5	24.5	22.4	83.3	314.4	190.3	43.0	15.2	15.8	17.3	
5	7.4	11.0	5.9	21.5	16.1	89.8	364.0	166.5	39.2	15.8	22.1	22.7	
6	8.9	9.5	6.8	19.7	13.7	91.0	400.0	143.7	36.0	15.5	29.6	26.4	
7	8.9	9.5	9.2	21.5	14.6	98.1	415.3	124.7	34.8	15.5	30.0	21.5	
8	8.9	11.3	9.5	22.4	12.5	102.8	416.2	110.5	31.6	15.5	26.8	17.9	
9	10.1	12.5	11.3	23.0	11.9	101.0	415.3	101.0	29.2	15.5	24.5	15.8	
10	12.5	11.0	9.8	21.5	11.9	103.4	426.1	95.7	27.6	15.8	24.2	14.6	
11	13.1	12.2	10.7	20.6	15.8	116.4	430.6	93.3	25.4	16.1	24.2	14.0	
12	11.6	12.5	14.3	18.5	23.0	139.5	431.5	83.8	23.6	17.0	23.0	16.7	
13	10.7	13.4	17.3	16.4	24.2	146.0	431.5	69.5	23.3	17.3	21.2	17.3	
14	10.1	14.9	20.9	15.5	18.2	147.2	427.9	60.0	22.4	17.0	20.0	16.4	
15	9.5	18.2	27.2	13.1	15.2	142.5	420.7	58.0	21.5	18.2	19.4	16.1	
16	9.2	22.1	36.8	12.5	15.2	138.9	409.9	57.5	21.2	19.1	19.4	15.8	
17	8.3	23.6	44.5	13.7	21.5	137.7	399.1	56.5	20.6	19.1	20.0	14.9	
18	13.7	23.3	44.0	11.9	48.5	134.8	388.3	59.5	19.4	22.4	17.9	15.8	
19	12.2	18.5	41.2	11.6	111.1	134.8	368.5	64.0	18.5	21.2	16.7	14.6	
20	16.1	15.5	40.0	12.5	127.7	135.4	346.4	79.7	18.2	19.1	15.8	13.7	
21	20.9	12.8	40.0	10.7	123.5	137.7	344.0	87.4	17.9	19.4	14.3	14.3	
22	17.0	21.2	37.6	10.1	109.9	144.9	364.0	85.6	17.0	19.7	14.9	15.2	
23	15.8	24.8	49.5	11.9	98.7	144.9	370.3	82.1	16.7	17.3	14.0	16.1	
24	14.6	27.2	52.5	9.8	102.8	146.6	362.4	74.4	16.1	16.7	12.8	18.5	
25	14.9	19.7	43.0	8.3	124.7	156.0	358.4	69.0	15.5	17.6	13.4	20.3	
26	12.2	17.3	32.8	8.3	151.8	174.9	354.4	66.5	16.1	17.6	14.6	22.1	
27	13.1	10.7	26.8	9.5	174.2	204.3	349.6	78.5	16.1	17.9	14.9	23.6	
28	11.0	7.7	23.9	10.4	181.9	229.6	332.8	78.5	15.5	22.4	15.5	23.6	
29	10.4	7.7	28.4	10.1	169.3	240.8	312.0	66.5	15.2	30.0	16.4	24.2	
30	11.6	6.8	30.0	14.6	135.4	242.4	291.2	58.5	15.2	23.3		23.0	
31		6.8		14.6	103.4		270.4		15.2	20.3		22.1	
TOTAL	345.0	450.8	739.9	503.1	2058.2	4096.2	11236.8	3051.9	783.5	562.8	551.2	565.8	24945.2 CMSDAY
MEAN	11.5	14.5	24.7	16.2	66.4	136.5	362.5	101.7	25.3	18.2	19.0	18.3	68.2 CMS
MAX	20.9	27.2	52.5	31.2	181.9	242.4	431.5	249.6	54.5	30.0	30.0	26.4	431.5 CMS
MIN	6.2	6.8	5.9	8.3	11.9	73.2	230.4	56.5	15.2	14.9	12.8	13.7	5.9 CMS
RUNOFF	29.81	38.95	63.93	43.47	177.83	353.91	970.86	263.68	67.69	48.63	47.62	48.89	2155.27 MCM

MOMENTARY PEAK 431.50 CMS, AT 143.25 M (MSL), AT 24.00 HOURS, ON OCT 11, 1987

RUNOFF YIELD 2.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +186.07 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE STATION OFFICE.

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 — 1967-1971, 1973, 1979, 1982 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1971, 1973, 1979, 1982 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

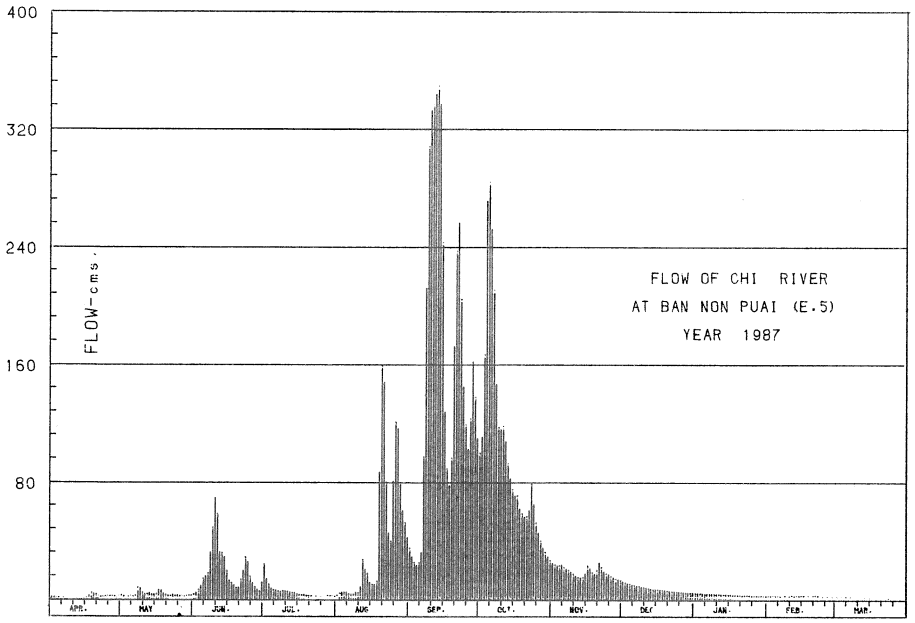
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	186.78	186.89	186.94	188.24	186.88	188.79	191.50	188.28	187.58	187.02	186.84	186.79	
2	186.76	186.84	187.03	187.70	187.01•	188.49	191.86	188.23	187.53	187.01	186.84	186.79	
3	186.76	186.79	187.20	187.46	187.06	188.30	193.51	188.19	187.49	187.00	186.85	186.79	
4	186.74	186.80	187.38	187.26	187.07	188.20	195.39	188.20	187.47	186.99	186.85	186.81	
5	186.72	186.82	187.72	187.19	187.05	188.29	195.59	188.22	187.43	186.96	186.85	186.80	
6	186.71	186.81	187.81	187.16	186.98	188.63	195.08	188.14	187.41	186.97	186.83	186.79	
7	186.70	186.86	187.93	187.13	186.94	191.40	194.39	188.08	187.38	186.98	186.85	186.77	
8	186.69	187.31	188.65	187.10	186.95	194.41	192.99	188.04	187.36	186.96	186.86	186.76	
9	186.68	187.25	189.42	187.14	187.05	195.96	192.08	187.97	187.33	186.96	186.85	186.75	
10	186.66	187.06	190.27	187.13	187.04	196.31	192.03	187.90	187.31	186.95	186.83	186.75	
11	186.65	186.96	189.83	187.11	187.33	196.38	192.11	187.82	187.29	186.95	186.87	186.74	
12	186.64	186.98	188.66	187.06	188.40	196.47	191.76	187.77	187.26	186.94	186.84	186.74	
13	186.62	187.02	188.63	187.05	188.07	196.55	191.22	187.75	187.23	186.93	186.84	186.72	
14	186.62	186.95	188.49	187.02	187.92	196.37	190.80	187.77	187.20	186.92	186.85	186.72	
15	186.64	186.94	188.02	186.97	187.54	194.93	190.51	187.91	187.21	186.92	186.86	186.72	
16	186.72	186.98	187.63	186.92	187.45	192.43	190.33	188.19	187.20	186.92	186.85	186.72	
17	186.85	187.17	187.53	186.91	187.44	191.07	190.34	188.10	187.19	186.91	186.83	186.72	
18	187.04	187.15	187.41	186.93	187.60	190.61	189.98	187.95	187.18	186.89	186.85	186.71	
19	186.96	186.99	187.29	186.88	190.98	191.36	189.83	187.89	187.16	186.89	186.83	186.70	
20	186.94	186.92	187.30	186.86	193.32	193.63	189.73	188.04	187.14	186.88	186.85	186.69	
21	186.83	186.87	187.68	186.85	193.03	194.83	189.75	188.29	187.13	186.87	186.87	186.70	
22	186.79	186.86	188.02	186.82	190.71	195.15	189.93	188.14	187.11	186.87	186.86	186.73	
23	186.80	186.92	188.48	186.82	189.25	194.28	190.66	187.98	187.11	186.88	186.81	186.69	
24	186.82	186.87	188.32	186.81	189.00	192.94	190.10	187.91	187.09	186.87	186.81	186.69	
25	186.84	186.88	187.80	186.79	190.73	192.14	189.56	187.88	187.08	186.85	186.81	186.67	
26	186.84	186.84	187.51	186.78	192.20	191.58	189.25	187.81	187.07	186.86	186.81	186.67	
27	186.83	186.83	187.33	186.82	192.05	192.28	189.01	187.75	187.06	186.85	186.80	186.67	
28	186.83	186.81	187.20	186.85	190.70	193.39	188.80	187.70	187.04	186.85	186.80	186.66	
29	186.77	186.84	187.13	186.86	189.92	192.74	188.65	187.66	187.03	186.85	186.79	186.65	
30	186.84	186.88	187.54	186.84	189.56	191.83	188.49	187.63	187.03	186.85		186.66	
31		186.87		186.81	189.11		188.37		187.02	186.84		186.64	
MEAN	186.77	186.93	187.94	187.04	188.79	192.66	191.08	187.97	187.23	186.92	186.84	186.72	
MAX	187.04	187.31	190.27	188.24	193.32	196.55	195.59	188.29	187.58	187.02	186.87	186.81	196.55
MIN	186.62	186.79	186.94	186.78	186.88	188.20	188.37	187.63	187.02	186.84	186.79	186.64	186.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 196.57 M (MSL), AT 12.00 HOURS, ON SEP 13, 1987
ZERO GAGE AT BOTTOM ELEVATION 186.07 M (MSL), RIVER BED 185.30 M (MSL)
LEFT BANK ELEVATION 197.64 M (MSL)
RIGHT BANK ELEVATION 197.63 M (MSL), DRAINAGE AREA 4254 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.98	3.19	3.74	24.30	3.08	35.30	100.00	25.10	12.50	4.64	2.64	2.09	
2	1.76	2.64	4.76	14.30	4.52	29.30	110.80	24.10	11.75	4.52	2.64	2.09	
3	1.76	2.09	7.00	10.70	5.12	25.50	166.95	23.30	11.15	4.40	2.75	2.09	
4	1.54	2.20	9.52	7.84	5.24	23.50	271.35	23.50	10.85	4.29	2.75	2.31	
5	1.32	2.42	14.64	6.86	5.00	25.30	284.35	23.90	10.25	3.96	2.75	2.20	
6	1.21	2.31	16.18	6.44	4.18	32.10	252.30	22.30	9.95	4.07	2.53	2.09	
7	1.10	2.86	18.34	6.02	3.74	97.50	210.90	21.12	9.52	4.18	2.75	1.87	
8	1.04	8.54	32.50	5.60	3.85	212.10	146.65	20.36	9.24	3.96	2.86	1.76	
9	0.98	7.70	49.45	6.16	5.00	308.40	117.40	19.06	8.82	3.96	2.75	1.65	
10	0.86	5.12	69.25	6.02	4.88	332.70	115.90	17.80	8.54	3.85	2.53	1.65	
11	0.80	3.96	58.68	5.74	8.82	337.60	118.30	16.36	8.26	3.85	2.97	1.54	
12	0.74	4.18	32.70	5.12	27.50	343.90	107.80	15.49	7.84	3.74	2.64	1.54	
13	0.62	4.64	32.10	5.00	20.93	349.50	93.00	15.15	7.42	3.63	2.64	1.32	
14	0.62	3.85	29.30	4.64	18.16	336.90	82.50	15.49	7.00	3.52	2.75	1.32	
15	0.74	3.74	19.98	4.07	11.90	243.30	75.25	17.98	7.14	3.52	2.86	1.32	
16	1.32	4.18	13.25	3.52	10.55	127.90	70.75	23.30	7.00	3.52	2.75	1.32	
17	2.75	6.58	11.75	3.41	10.40	89.25	71.00	21.50	6.86	3.41	2.53	1.32	
18	4.88	6.30	9.95	3.63	12.80	77.75	62.05	18.70	6.72	3.19	2.75	1.21	
19	3.96	4.29	8.26	3.08	87.00	96.50	58.68	17.62	6.44	3.19	2.53	1.10	
20	3.74	3.52	8.40	2.86	159.30	172.35	56.43	20.36	6.16	3.08	2.75	1.04	
21	2.53	2.97	14.00	2.75	148.05	237.30	56.87	25.30	6.02	2.97	2.97	1.10	
22	2.09	2.86	19.98	2.42	80.25	256.50	60.93	22.30	5.74	2.97	2.86	1.43	
23	2.20	3.52	29.10	2.42	45.62	204.40	79.00	19.24	5.74	3.08	2.31	1.04	
24	2.42	2.97	25.90	2.31	40.00	144.90	65.00	17.98	5.48	2.97	2.31	1.04	
25	2.64	3.08	16.00	2.09	80.75	119.20	52.60	17.44	5.36	2.75	2.31	0.92	
26	2.64	2.64	11.45	1.98	121.00	102.40	45.62	16.18	5.24	2.86	2.31	0.92	
27	2.53	2.53	8.82	2.42	116.50	123.40	40.23	15.15	5.12	2.75	2.20	0.92	
28	2.53	2.31	7.00	2.75	80.00	162.10	35.50	14.30	4.88	2.75	2.20	0.86	
29	1.87	2.64	6.02	2.86	60.70	137.90	32.50	13.70	4.76	2.75	2.09	0.80	
30	2.64	3.08	11.90	2.64	52.60	109.90	29.30	13.25	4.76	2.75		0.86	
31		2.97		2.31	42.47		26.90		4.64	2.64		0.74	
TOTAL	57.81	115.88	599.92	162.26	1279.91	4894.65	3096.81	577.33	231.15	107.72	75.68	43.46	11242.58 CMSDAY
MEAN	1.93	3.74	20.00	5.23	41.29	163.15	99.90	19.24	7.46	3.47	2.61	1.40	30.72 CMS
MAX	4.88	8.54	69.25	24.30	159.30	349.50	284.35	25.30	12.50	4.64	2.97	2.31	349.50 CMS
MIN	0.62	2.09	3.74	1.98	3.08	23.50	26.90	13.25	4.64	2.64	2.09	0.74	0.62 CMS
RUNOFF	4.995	10.012	51.833	14.019	110.584	422.898	267.564	49.881	19.971	9.307	6.539	3.755	971.359 MCM

MOMENTARY PEAK 350.90 CMS, AT 196.57 M (MSL), AT 12.00 HOURS, ON SEP 13, 1987

RUNOFF YIELD 7.22 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

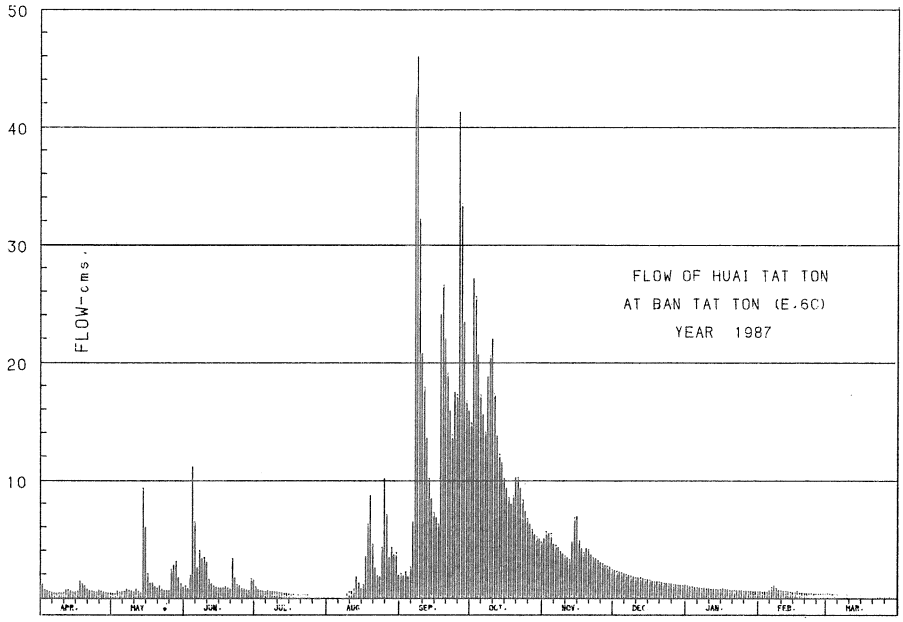
HUAI TAT TON AT BAN TAT TON, CHAIYAPHUM (E.6C).

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	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+6.840 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.20	0.34	0.33	0.16	0.50	1.93	0.86	0.54	0.34	0.24	0.20	
2	0.28	0.20	0.30	0.28	0.16	0.47	3.07	0.93	0.53	0.33	0.23	0.19	
3	0.26	0.25	0.48	0.26	0.15	0.52	2.93	0.91	0.52	0.33	0.23	0.18	
4	0.24	0.23	1.54	0.25	0.15	0.46	2.48	0.91	0.51	0.32	0.23	0.18	
5	0.22	0.24	1.02	0.24	0.15	0.58	2.17	0.81	0.50	0.32	0.26	0.18	
6	0.21	0.25	0.57	0.26	0.14	1.02	2.00	0.80	0.49	0.31	0.32	0.17	
7	0.20	0.29	0.75	0.24	0.14	4.39	1.85	0.78	0.48	0.31	0.34	0.17	
8	0.21	0.27	0.67	0.24	0.14	4.66	2.31	0.74	0.47	0.31	0.31	0.17	
9	0.21	0.25	0.68	0.24	0.19	3.51	2.47	0.72	0.46	0.30	0.27	0.17	
10	0.22	0.23	0.63	0.23	0.24	2.49	2.60	0.70	0.45	0.30	0.26	0.17	
11	0.27	0.29	0.43	0.22	0.24	2.23	2.18	0.68	0.45	0.29	0.25	0.16	
12	0.28	0.25	0.37	0.21	0.30	1.80	1.82	0.66	0.45	0.29	0.25	0.16	
13	0.25	0.21	0.34	0.20	0.46	1.43	1.66	0.83	0.44	0.29	0.24	0.15	
14	0.23	1.34	0.32	0.20	0.38	1.24	1.58	1.06	0.43	0.28	0.23	0.15	
15	0.23	0.97	0.31	0.19	0.30	1.11	1.43	1.07	0.43	0.29	0.22	0.15	
16	0.25	0.50	0.31	0.18	0.36	1.06	1.34	0.84	0.42	0.30	0.22	0.14	
17	0.41	0.38	0.31	0.18	0.69	1.00	1.25	0.77	0.41	0.29	0.25	0.14	
18	0.37	0.38	0.33	0.18	1.00	2.79	1.19	0.73	0.40	0.28	0.21	0.14	
19	0.34	0.33	0.31	0.17	1.27	3.02	1.27	0.77	0.40	0.27	0.21	0.14	
20	0.29	0.31	0.29	0.16	0.81	2.60	1.44	0.76	0.40	0.26	0.20	0.14	
21	0.26	0.34	0.67	0.17	0.57	2.34	1.44	0.71	0.39	0.27	0.20	0.13	
22	0.25	0.29	0.45	0.18	0.47	2.03	1.34	0.68	0.38	0.26	0.20	0.13	
23	0.24	0.26	0.36	0.17	0.46	1.83	1.23	0.67	0.38	0.26	0.20	0.12	
24	0.23	0.26	0.34	0.16	0.78	2.19	1.12	0.65	0.37	0.26	0.19	0.12	
25	0.27	0.26	0.30	0.16	1.43	2.17	1.05	0.63	0.37	0.25	0.19	0.12	
26	0.25	0.55	0.29	0.16	1.09	4.27	1.00	0.62	0.36	0.25	0.19	0.12	
27	0.23	0.60	0.27	0.17	0.68	3.62	0.95	0.60	0.36	0.25	0.19	0.12	
28	0.22	0.64	0.26	0.16	0.78	2.73	0.90	0.59	0.35	0.25	0.19	0.11	
29	0.21	0.45	0.44	0.15	0.71	2.12	0.88	0.58	0.35	0.24	0.19	0.11	
30	0.21	0.37	0.42	0.15	0.73	2.03	0.86	0.55	0.35	0.24		0.11	
31		0.32		0.15	0.48		0.83		0.35	0.24		0.11	
MEAN	0.26	0.38	0.47	0.20	0.50	2.07	1.63	0.75	0.43	0.28	0.23	0.15	
MAX	0.41	1.34	1.54	0.33	1.43	4.66	3.07	1.07	0.54	0.34	0.34	0.20	4.66
MIN	0.20	0.20	0.26	0.15	0.14	0.46	0.83	0.55	0.35	0.24	0.19	0.11	0.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.31 M (A.D), AT 17.00 HOURS, ON SEP 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.08 M (A.D)
LEFT BANK ELEVATION 7.65 M (A.D)
RIGHT BANK ELEVATION 6.84 M (A.D), DRAINAGE AREA 300 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.160	0.400	1.040	0.980	0.240	2.100	14.900	5.040	2.380	1.040	0.560	0.400	
2	0.720	0.400	0.800	0.720	0.240	1.890	27.170	5.670	2.310	0.980	0.520	0.360	
3	0.640	0.600	1.960	0.640	0.200	2.240	25.630	5.490	2.240	0.980	0.520	0.320	
4	0.560	0.520	11.160	0.600	0.200	1.820	20.680	5.490	2.170	0.920	0.520	0.320	
5	0.480	0.560	6.480	0.560	0.200	2.660	17.300	4.590	2.100	0.920	0.640	0.320	
6	0.440	0.600	2.590	0.640	0.160	6.480	15.600	4.500	2.030	0.860	0.920	0.280	
7	0.400	0.760	4.050	0.560	0.160	42.780	14.100	4.320	1.960	0.860	1.040	0.280	
8	0.440	0.680	3.360	0.560	0.160	46.020	18.810	3.960	1.890	0.860	0.860	0.280	
9	0.440	0.600	3.440	0.560	0.360	32.220	20.570	3.780	1.820	0.800	0.680	0.280	
10	0.480	0.520	3.040	0.520	0.560	20.790	22.000	3.600	1.750	0.800	0.640	0.280	
11	0.680	0.760	1.610	0.480	0.560	17.930	17.400	3.440	1.750	0.760	0.600	0.240	
12	0.720	0.600	1.220	0.440	0.800	13.600	13.800	3.280	1.750	0.760	0.600	0.240	
13	0.600	0.440	1.040	0.400	1.820	10.170	12.240	4.770	1.680	0.760	0.560	0.200	
14	0.520	9.360	0.920	0.400	1.280	8.460	11.520	6.840	1.610	0.720	0.520	0.200	
15	0.520	6.030	0.860	0.360	0.800	7.290	10.170	6.930	1.610	0.760	0.480	0.200	
16	0.600	2.100	0.860	0.320	1.160	6.840	9.360	4.860	1.540	0.800	0.480	0.160	
17	1.470	1.280	0.860	0.320	3.520	6.300	8.550	4.230	1.470	0.760	0.600	0.160	
18	1.220	1.280	0.980	0.320	6.300	24.090	8.010	3.870	1.400	0.720	0.440	0.160	
19	1.040	0.980	0.860	0.280	8.730	26.620	8.730	4.230	1.400	0.680	0.440	0.160	
20	0.760	0.860	0.760	0.240	4.590	22.000	10.260	4.140	1.400	0.640	0.400	0.160	
21	0.640	1.040	3.360	0.280	2.590	19.140	10.260	3.690	1.340	0.680	0.400	0.120	
22	0.600	0.760	1.750	0.320	1.890	15.900	9.360	3.440	1.280	0.640	0.400	0.120	
23	0.560	0.640	1.160	0.280	1.820	13.900	8.370	3.360	1.280	0.640	0.400	0.080	
24	0.520	0.640	1.040	0.240	4.320	17.500	7.380	3.200	1.220	0.640	0.360	0.080	
25	0.680	0.640	0.800	0.240	10.170	17.300	6.750	3.040	1.220	0.600	0.360	0.080	
26	0.600	2.450	0.760	0.240	7.110	41.340	6.300	2.960	1.160	0.600	0.360	0.080	
27	0.520	2.800	0.680	0.280	3.440	33.540	5.850	2.800	1.160	0.600	0.360	0.080	
28	0.480	3.120	0.640	0.240	4.320	23.430	5.400	2.730	1.100	0.600	0.360	0.040	
29	0.440	1.750	1.680	0.200	3.690	16.800	5.220	2.660	1.100	0.560	0.360	0.040	
30	0.440	1.220	1.540	0.200	3.870	15.900	5.040	2.450	1.100	0.560		0.040	
31		0.920		0.200	1.960		4.770		1.100	0.560		0.040	
TOTAL	19.370	45.310	61.300	12.620	77.220	517.050	381.500	123.360	49.320	23.060	15.380	5.800	1331.290 CMSDAY
MEAN	0.646	1.462	2.043	0.407	2.491	17.235	12.306	4.112	1.591	0.744	0.530	0.187	3.637 CMS
MAX	1.470	9.360	11.160	0.980	10.170	46.020	27.170	6.930	2.380	1.040	1.040	0.400	46.020 CMS
MIN	0.400	0.400	0.640	0.200	0.160	1.820	4.770	2.450	1.100	0.560	0.360	0.040	0.040 CMS
RUNOFF	1.674	3.915	5.296	1.090	6.672	44.673	32.962	10.658	4.261	1.992	1.329	0.501	115.023 MCM

MOMENTARY PEAK 54.03 CMS, AT 5.31 M (A.D), AT 17.00 HOURS, ON SEP 7, 1987

RUNOFF YIELD 12.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 180.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

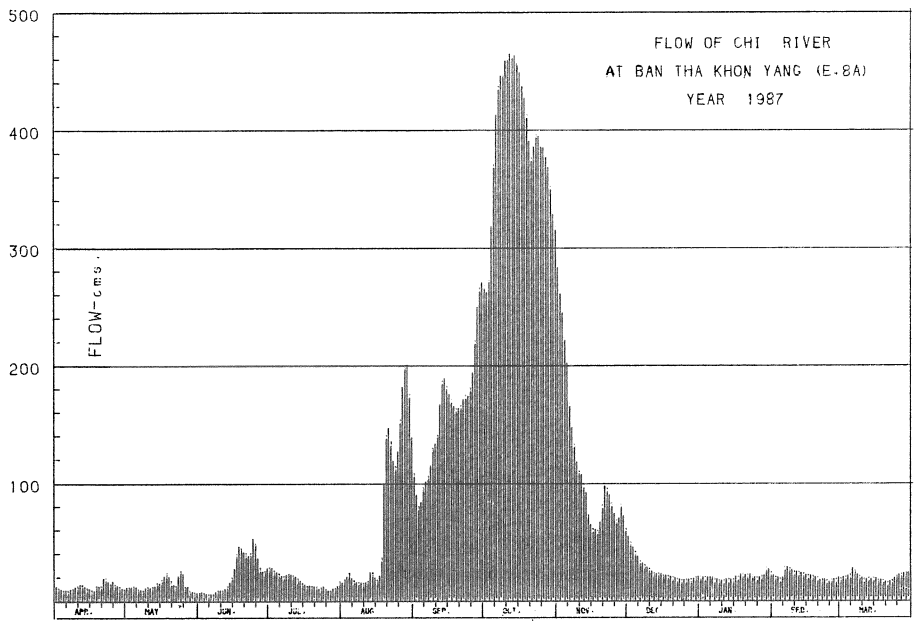
CHI RIVER AT BAN THA KHON YANG, MAHA SARAKHAM (E.8A)

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	+133.21 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE 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, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1955-1957, 1965-1976, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY NAM PHONG DAM ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.01	133.99	133.88	134.42	134.09	135.91	138.34	138.55	134.96	134.22	134.25	134.18	
2	133.98	134.00	133.89	134.41	134.16	135.61	138.25	138.27	134.86	134.21	134.22	134.21	
3	133.95	134.00	133.88	134.35	134.22	135.44	138.40	138.00	134.78	134.21	134.21	134.22	
4	133.93	134.02	133.85	134.32	134.30	135.50	138.99	137.70	134.70	134.21	134.18	134.24	
5	133.93	134.00	133.85	134.29	134.19	135.71	139.65	137.38	134.62	134.21	134.20	134.26	
6	133.93	133.96	133.85	134.24	134.14	135.79	140.17	136.88	134.54	134.21	134.43	134.40	
7	133.95	133.94	133.85	134.23	134.10	135.88	140.44	136.56	134.51	134.18	134.42	134.35	
8	133.97	133.93	133.89	134.26	134.10	136.02	140.54	136.32	134.47	134.17	134.40	134.27	
9	134.00	133.98	133.93	134.28	134.09	136.27	140.57	136.07	134.42	134.15	134.36	134.23	
10	134.02	134.01	133.93	134.27	134.08	136.33	140.68	135.94	134.39	134.14	134.33	134.20	
11	134.06	133.98	133.93	134.25	134.10	136.45	140.72	135.89	134.34	134.15	134.33	134.17	
12	134.05	134.01	133.96	134.22	134.13	136.86	140.75	135.76	134.30	134.17	134.32	134.17	
13	134.01	134.02	134.02	134.18	134.31	137.16	140.74	135.64	134.28	134.17	134.30	134.19	
14	133.98	134.09	134.10	134.14	134.31	137.19	140.73	135.32	134.29	134.16	134.29	134.17	
15	133.96	134.08	134.21	134.09	134.20	137.09	140.67	135.16	134.28	134.17	134.26	134.19	
16	133.94	134.16	134.39	134.05	134.15	136.99	140.57	135.09	134.25	134.22	134.25	134.18	
17	133.92	134.23	134.67	134.02	134.24	136.93	140.47	135.08	134.25	134.22	134.25	134.15	
18	134.03	134.30	134.79	134.03	134.60	136.84	140.33	135.06	134.24	134.27	134.23	134.15	
19	134.02	134.22	134.76	134.02	135.77	136.81	140.17	135.20	134.22	134.28	134.21	134.14	
20	134.03	134.13	134.69	134.01	136.45	136.82	139.90	135.46	134.21	134.26	134.20	134.11	
21	134.19	134.05	134.68	134.01	136.55	136.85	139.72	135.73	134.20	134.26	134.15	134.10	
22	134.20	134.03	134.63	133.96	136.36	136.93	139.84	135.70	134.17	134.27	134.16	134.12	
23	134.12	134.23	134.68	133.99	136.09	136.98	139.97	135.61	134.17	134.26	134.17	134.14	
24	134.07	134.35	134.92	134.01	136.01	136.97	139.95	135.49	134.15	134.21	134.14	134.19	
25	134.13	134.28	134.84	133.96	136.22	137.07	139.87	135.34	134.15	134.20	134.11	134.23	
26	134.06	134.01	134.59	133.92	136.67	137.26	139.83	135.24	134.16	134.21	134.16	134.26	
27	134.03	134.01	134.41	133.92	137.08	137.66	139.76	135.27	134.16	134.24	134.17	134.28	
28	134.01	133.93	134.33	133.96	137.35	138.07	139.62	135.47	134.17	134.25	134.17	134.29	
29	133.97	133.90	134.34	133.98	137.36	138.30	139.42	135.31	134.18	134.41	134.20	134.30	
30	133.96	133.89	134.40	134.02	136.99	138.37	139.12	135.09	134.21	134.38		134.30	
31		133.87		134.12	136.42		138.99		134.22	134.32		134.27	
MEAN	134.01	134.05	134.27	134.13	135.19	136.74	139.91	135.99	134.35	134.23	134.24	134.21	
MAX	134.20	134.35	134.92	134.42	137.36	138.37	140.75	138.55	134.96	134.41	134.43	134.40	140.75
MIN	133.92	133.87	133.85	133.92	134.08	135.44	138.25	135.06	134.15	134.14	134.11	134.10	133.85

ANNUAL MAX MOMENTARY GAGE HEIGHT 140.75 M (MSL), AT 1.00 HOURS, ON OCT 13, 1987
ZERO GAGE AT BOTTOM ELEVATION 133.21 M (MSL), RIVER BED 133.60 M (MSL)
LEFT BANK ELEVATION 143.09 M (MSL)
RIGHT BANK ELEVATION 143.79 M (MSL), DRAINAGE AREA 30764 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.4	11.6	7.2	28.8	15.6	108.6	268.8	283.5	55.0	20.8	22.0	19.2	
2	11.2	12.0	7.6	28.4	18.4	90.6	262.5	263.9	50.0	20.4	20.8	20.4	
3	10.0	12.0	7.2	26.0	20.8	80.4	273.0	245.0	46.0	20.4	20.4	20.8	
4	9.2	12.8	6.0	24.8	24.0	84.0	318.2	224.5	42.0	20.4	19.2	21.6	
5	9.2	12.0	6.0	23.6	19.6	96.6	371.0	202.6	38.0	20.4	20.0	22.4	
6	9.2	10.4	6.0	21.6	17.6	101.4	413.3	168.3	34.0	20.4	29.2	28.0	
7	10.0	9.6	6.0	21.2	16.0	106.8	437.6	147.6	32.5	19.2	28.8	26.0	
8	10.8	9.2	7.6	22.4	16.0	115.2	446.6	133.2	30.8	18.8	28.0	22.8	
9	12.0	11.2	9.2	23.2	15.6	130.2	449.3	118.2	28.8	18.0	26.4	21.2	
10	12.8	12.4	9.2	22.8	15.2	133.8	459.2	110.4	27.6	17.6	25.2	20.0	
11	14.4	11.2	9.2	22.0	16.0	141.0	462.8	107.4	25.6	18.0	25.2	18.8	
12	14.0	12.4	10.4	20.8	17.2	167.0	465.5	99.6	24.0	18.8	24.8	18.8	
13	12.4	12.8	12.8	19.2	24.4	187.5	464.6	92.4	23.2	18.8	24.0	19.6	
14	11.2	15.6	16.0	17.6	24.4	189.5	463.7	73.2	23.6	18.4	23.6	18.8	
15	10.4	15.2	20.4	15.6	20.0	182.7	458.3	65.0	23.2	18.8	22.4	19.6	
16	9.6	18.4	27.6	14.0	18.0	175.9	449.3	61.5	22.0	20.8	22.0	19.2	
17	8.8	21.2	40.5	12.8	21.6	171.7	440.3	61.0	22.0	20.8	22.0	18.0	
18	13.2	24.0	46.5	13.2	37.0	165.6	427.7	60.0	21.6	22.8	21.2	18.0	
19	12.8	20.8	45.0	12.8	100.2	163.5	413.3	67.0	20.8	23.2	20.4	17.6	
20	13.2	17.2	41.5	12.4	141.0	164.2	391.0	81.6	20.4	22.4	20.0	16.4	
21	19.6	14.0	41.0	12.4	147.0	166.3	376.6	97.8	20.0	22.4	18.0	16.0	
22	20.0	13.2	38.5	10.4	135.6	171.7	386.2	96.0	18.8	22.8	18.4	16.8	
23	16.8	21.2	41.0	11.6	119.4	175.2	396.6	90.6	18.8	22.4	18.8	17.6	
24	14.8	26.0	53.0	12.4	114.6	174.5	395.0	83.4	18.0	20.4	17.6	19.6	
25	17.2	23.2	49.0	10.4	127.2	181.3	388.6	74.4	18.0	20.0	16.4	21.2	
26	14.4	12.4	36.5	8.8	154.2	194.3	385.4	69.0	18.4	20.4	18.4	22.4	
27	13.2	12.4	28.4	8.8	182.0	221.7	379.8	70.5	18.4	21.6	18.8	23.2	
28	12.4	9.2	25.2	10.4	200.5	249.9	368.6	82.2	18.8	22.0	18.8	23.6	
29	10.8	8.0	25.6	11.2	201.2	266.0	352.6	72.6	19.2	28.4	20.0	24.0	
30	10.4	7.6	28.0	12.8	175.9	270.9	328.6	61.5	20.4	27.2		24.0	
31		6.8		16.8	139.2		318.2		20.8	24.8		22.8	
TOTAL	376.4	436.0	708.1	529.2	2295.4	4828.0	12212.2	3463.9	820.7	651.6	630.8	638.4	27590.7 CMSDAY
MEAN	12.5	14.1	23.6	17.1	74.0	160.9	393.9	115.5	26.5	21.0	21.8	20.6	75.4 CMS
MAX	20.0	26.0	53.0	28.8	201.2	270.9	465.5	283.5	55.0	28.4	29.2	28.0	465.5 CMS
MIN	8.8	6.8	6.0	8.8	15.2	80.4	262.5	60.0	18.0	17.6	16.4	16.0	6.0 CMS
RUNOFF	32.52	37.67	61.18	45.72	198.32	417.14	1055.13	299.28	70.91	56.30	54.50	55.16	2383.84 MCM

MOMENTARY PEAK 465.50 CMS, AT 140.75 M (MSL), AT 1.00 HOURS, ON OCT 13, 1987

RUNOFF YIELD 2.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 15.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

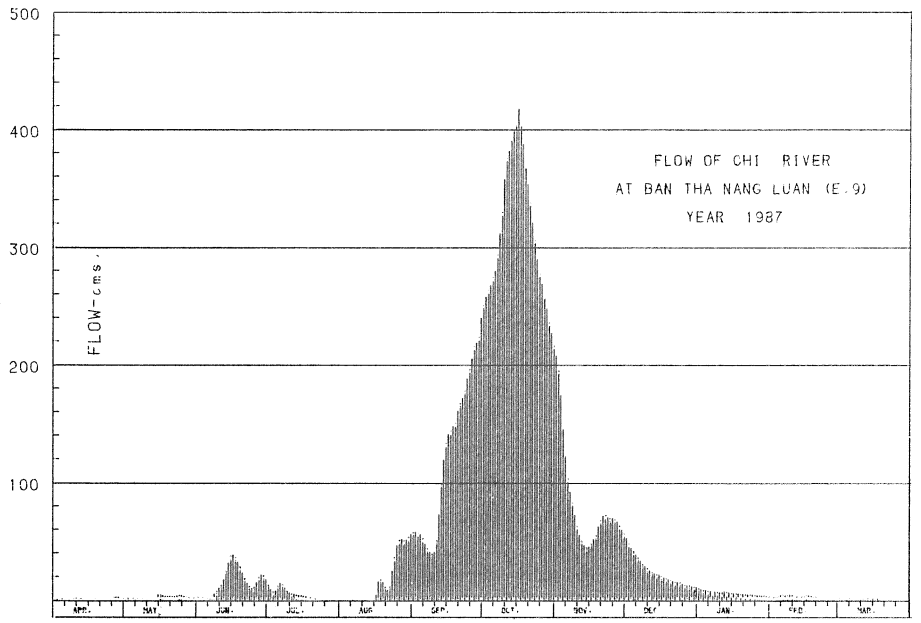
CHI RIVER AT BAN THA NANG LUAN, KHON KAEN (E.9)

LOCATION	LAT. 16-05-49 N., LONG. 102-34-23- E., ON LEFT BANK ABOUT 80 METERS DOWNSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE CHONNABOT, KHON KAEN.
DRAINAGE AREA	11,020 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 45 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+11.931 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1958 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 - 1973, 1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 - 1980, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.99	1.27	1.34	2.28	0.82	4.70	9.72	9.00	4.48	2.09	1.38	1.28	
2	1.05	1.25	1.32	2.03	0.80	4.70	9.79	8.68	4.29	2.03	1.33	1.28	
3	1.07	1.25	1.30	1.86	0.79	4.68	9.85	8.16	4.12	1.98	1.36	1.28	
4	1.07	1.25	1.30	1.91	0.78	4.61	9.89	7.51	3.98	1.96	1.41	1.28	
5	1.06	1.23	1.30	2.24	0.90	4.47	9.95	6.86	3.84	1.92	1.54	1.27	
6	1.06	1.22	1.29	2.39	0.95	4.27	10.00	6.32	3.72	1.89	1.55	1.26	
7	1.04	1.22	1.46	2.31	0.89	4.09	10.07	5.95	3.58	1.85	1.50	1.23	
8	1.07	1.23	1.64	2.12	0.83	3.95	10.14	5.64	3.43	1.84	1.55	1.21	
9	1.19	1.28	1.90	1.92	0.79	3.87	10.20	5.29	3.31	1.83	1.55	1.20	
10	1.21	1.28	2.12	1.78	0.80	3.96	10.27	4.90	3.20	1.79	1.53	1.19	
11	1.18	1.24	2.28	1.69	1.02	4.40	10.31	4.59	3.08	1.78	1.42	1.16	
12	1.14	1.22	2.58	1.63	1.09	5.31	10.32	4.38	3.00	1.84	1.40	1.19	
13	1.12	1.22	3.05	1.58	1.08	6.19	10.34	4.22	2.92	1.82	1.40	1.23	
14	1.09	1.39	3.51	1.54	1.01	6.79	10.35	4.13	2.86	1.78	1.40	1.23	
15	1.09	1.60	3.80	1.51	0.99	7.14	10.36	4.16	2.84	1.72	1.41	1.23	
16	1.18	1.60	3.85	1.46	1.75	7.33	10.38	4.27	2.76	1.70	1.53	1.21	
17	1.19	1.53	3.74	1.41	2.46	7.40	10.36	4.44	2.69	1.68	1.51	1.18	
18	1.15	1.46	3.55	1.35	2.57	7.50	10.33	4.58	2.64	1.67	1.44	1.16	
19	1.12	1.45	3.29	1.29	2.44	7.57	10.30	4.89	2.60	1.64	1.39	1.13	
20	1.12	1.46	2.96	1.22	2.17	7.83	10.26	5.11	2.54	1.63	1.36	1.10	
21	1.09	1.44	2.64	1.17	1.98	7.99	10.22	5.26	2.49	1.61	1.33	1.08	
22	1.10	1.43	2.39	1.11	2.19	8.10	10.17	5.28	2.45	1.60	1.33	1.10	
23	1.10	1.48	2.21	1.08	3.05	8.26	10.12	5.22	2.43	1.59	1.33	1.10	
24	1.10	1.55	2.10	1.09	3.74	8.51	10.05	5.19	2.41	1.57	1.33	1.08	
25	1.17	1.53	2.16	1.09	4.22	8.72	9.98	5.19	2.33	1.54	1.32	1.07	
26	1.34	1.46	2.42	1.06	4.42	8.94	9.90	5.15	2.26	1.52	1.29	1.07	
27	1.38	1.39	2.71	1.02	4.45	9.20	9.80	5.06	2.25	1.51	1.27	1.06	
28	1.36	1.32	2.87	0.97	4.40	9.26	9.69	4.92	2.25	1.50	1.26	1.04	
29	1.30	1.30	2.80	0.92	4.42	9.35	9.54	4.77	2.19	1.48	1.27	1.02	
30	1.27	1.31	2.59	0.90	4.52	9.59	9.40	4.64	2.17	1.44		1.00	
31		1.35		0.87	4.63		9.21		2.15	1.42		0.99	
MEAN	1.15	1.36	2.42	1.51	2.16	6.62	10.04	5.46	2.94	1.72	1.40	1.16	
MAX	1.38	1.60	3.85	2.39	4.63	9.59	10.38	9.00	4.48	2.09	1.55	1.28	10.38
MIN	0.99	1.22	1.29	0.87	0.78	3.87	9.21	4.13	2.15	1.42	1.26	0.99	0.78

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.38 M (A.D), AT 24.00 HOURS, ON OCT 16, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.35 M (A.D)
LEFT BANK ELEVATION 14.01 M (A.D)
RIGHT BANK ELEVATION 13.63 M (A.D), DRAINAGE AREA 11020 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.92	2.32	2.82	13.26	0.40	58.20	251.00	208.00	52.92	10.36	3.14	2.38	
2	1.17	2.20	2.66	9.52	0.35	58.20	258.00	195.20	48.38	9.52	2.74	2.38	
3	1.27	2.20	2.50	7.60	0.33	57.72	264.00	174.40	44.64	8.88	2.98	2.38	
4	1.27	2.20	2.50	8.11	0.31	56.04	268.00	148.40	41.60	8.66	3.39	2.38	
5	1.22	2.08	2.50	12.65	0.60	52.68	274.50	122.40	38.80	8.22	4.56	2.32	
6	1.22	2.02	2.44	14.95	0.78	47.94	280.00	103.60	36.40	7.90	4.65	2.26	
7	1.13	2.02	3.84	13.73	0.58	43.98	294.00	92.50	33.60	7.50	4.20	2.08	
8	1.27	2.08	5.46	10.81	0.42	41.00	312.00	83.20	30.93	7.40	4.65	1.96	
9	1.85	2.38	8.00	8.22	0.33	39.40	330.00	72.72	29.08	7.30	4.65	1.90	
10	1.96	2.38	10.81	6.80	0.35	41.20	358.00	63.00	27.39	6.90	4.47	1.85	
11	1.80	2.14	13.26	5.91	1.04	51.00	376.00	55.56	25.55	6.80	3.48	1.70	
12	1.60	2.02	17.87	5.37	1.36	73.30	382.00	50.52	24.32	7.40	3.30	1.85	
13	1.50	2.02	25.09	4.92	1.31	99.70	394.00	46.84	23.09	7.20	3.30	2.08	
14	1.36	3.22	32.20	4.56	0.99	119.60	400.00	44.86	22.17	6.80	3.30	2.08	
15	1.36	5.10	38.00	4.29	0.92	133.60	406.00	45.52	21.86	6.20	3.39	2.08	
16	1.80	5.10	39.00	3.84	6.50	141.20	418.00	47.94	20.64	6.00	4.47	1.96	
17	1.85	4.47	36.80	3.39	16.03	144.00	406.00	51.96	19.56	5.82	4.29	1.80	
18	1.65	3.84	33.00	2.90	17.72	148.00	388.00	55.32	18.79	5.73	3.66	1.70	
19	1.50	3.75	28.77	2.44	15.72	150.80	370.00	62.76	18.18	5.46	3.22	1.55	
20	1.50	3.84	23.71	2.02	11.58	161.20	354.00	68.04	17.26	5.37	2.98	1.40	
21	1.36	3.66	18.79	1.75	8.88	167.60	338.00	71.88	16.49	5.19	2.74	1.31	
22	1.40	3.57	14.95	1.45	11.88	172.00	321.00	72.44	15.88	5.10	2.74	1.40	
23	1.40	4.02	12.19	1.31	25.09	178.40	306.00	70.76	15.57	5.01	2.74	1.40	
24	1.40	4.65	10.50	1.36	36.80	188.40	290.00	69.96	15.26	4.83	2.74	1.31	
25	1.75	4.47	11.42	1.36	46.84	196.80	277.80	69.96	14.03	4.56	2.66	1.27	
26	2.82	3.84	15.41	1.22	51.48	205.60	269.00	69.00	12.96	4.38	2.44	1.27	
27	3.14	3.22	19.87	1.04	52.20	216.00	259.00	66.84	12.80	4.29	2.32	1.22	
28	2.98	2.66	22.32	0.85	51.00	219.00	248.20	63.48	12.80	4.20	2.26	1.13	
29	2.50	2.50	21.25	0.67	51.48	224.00	236.20	59.88	11.88	4.02	2.32	1.04	
30	2.32	2.58	18.02	0.60	53.88	240.20	227.00	56.76	11.58	3.66		0.95	
31		2.90		0.53	56.52		216.50		11.27	3.48		0.92	
TOTAL	50.27	95.45	495.95	157.43	523.67	3726.76	9772.20	2463.70	745.68	194.14	97.78	53.31	18376.34 CMSDAY
MEAN	1.68	3.08	16.53	5.08	16.89	124.23	315.23	82.12	24.05	6.26	3.37	1.72	50.21 CMS
MAX	3.14	5.10	39.00	14.95	56.52	240.20	418.00	208.00	52.92	10.36	4.65	2.38	418.00 CMS
MIN	0.92	2.02	2.44	0.53	0.31	39.40	216.50	44.86	11.27	3.48	2.26	0.92	0.31 CMS
RUNOFF	4.343	8.247	42.850	13.602	45.245	321.992	844.318	212.864	64.427	16.774	8.448	4.606	1587.716 MCM

MOMENTARY PEAK 418.00 CMS, AT 10.38 M (A.D), AT 24.00 HOURS, ON OCT 16, 1987
RUNOFF YIELD 4.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 37.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

CHI RIVER AT BAN THA PHRA, KHON KAEN (E.16A)

LOCATION — LAT. 16°-21'-14" N., LONG. 102°-45'-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 — STAFF GAGE.

ZERO GAGE AT BOTTOM — +142.71 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK AT THE RAILWAY BRIDGE.

ELEVATION — +157.566 M. (M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1957 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1963, 1965 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1963, 1965 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

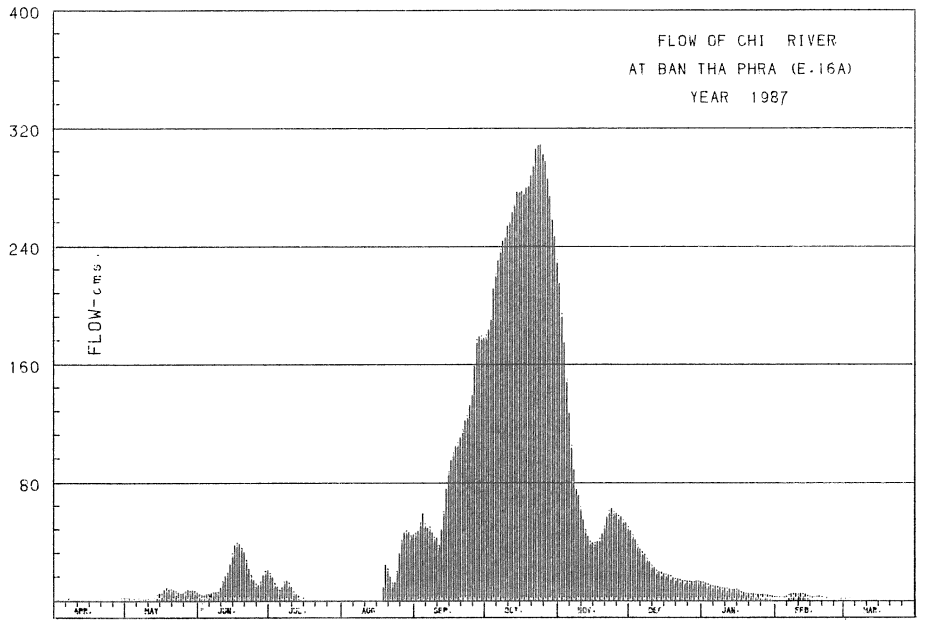
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	142.50	142.85	143.06	143.80	142.44	144.65	147.50	148.08	144.69	143.48	142.95	142.80	
2	142.49	142.83	143.01	143.64	142.44	144.69	147.56	147.74	144.61	143.45	142.94	142.77	
3	142.48	142.81	143.00	143.45	142.43	144.87	147.71	147.41	144.51	143.41	142.93	142.76	
4	142.46	142.80	143.05	143.32	142.42	145.03	148.02	147.00	144.41	143.37	142.92	142.76	
5	142.46	142.80	143.07	143.22	142.42	144.85	148.19	146.53	144.32	143.35	142.96	142.76	
6	142.46	142.79	143.09	143.30	142.40	144.75	148.34	146.09	144.26	143.34	143.04	142.75	
7	142.49	142.79	143.14	143.50	142.39	144.78	148.47	145.75	144.22	143.32	143.07	142.75	
8	142.50	142.79	143.14	143.53	142.40	144.66	148.56	145.49	144.13	143.30	143.08	142.74	
9	142.52	142.77	143.15	143.46	142.38	144.57	148.64	145.33	144.06	143.28	143.08	142.70	
10	142.55	142.77	143.28	143.31	142.38	144.55	148.73	145.14	143.99	143.27	143.07	142.68	
11	142.56	142.81	143.53	143.17	142.37	144.40	148.80	144.92	143.94	143.27	143.08	142.66	
12	142.61	142.84	143.68	143.05	142.39	144.72	148.88	144.72	143.88	143.24	143.08	142.65	
13	142.62	142.86	143.80	142.98	142.38	145.06	148.98	144.58	143.84	143.22	143.06	142.64	
14	142.62	143.03	144.01	142.92	142.37	145.44	149.08	144.48	143.80	143.23	143.00	142.63	
15	142.62	143.08	144.24	142.87	142.36	145.73	149.11	144.45	143.76	143.24	142.96	142.60	
16	142.62	143.10	144.40	142.85	142.38	145.88	149.09	144.45	143.75	143.21	142.93	142.62	
17	142.61	143.21	144.45	142.82	142.55	145.99	149.09	144.48	143.72	143.15	142.93	142.63	
18	142.68	143.28	144.43	142.79	143.36	146.08	149.12	144.54	143.68	143.12	142.96	142.63	
19	142.73	143.23	144.35	142.75	144.00	146.13	149.17	144.63	143.62	143.10	142.98	142.62	
20	142.68	143.24	144.26	142.70	143.92	146.20	149.24	144.79	143.60	143.09	142.95	142.61	
21	142.66	143.21	144.10	142.66	143.66	146.31	149.36	144.96	143.59	143.08	142.91	142.61	
22	142.65	143.18	143.92	142.60	143.45	146.43	149.50	145.08	143.56	143.07	142.90	142.60	
23	142.66	143.12	143.72	142.53	143.47	146.50	149.57	145.11	143.53	143.05	142.87	142.58	
24	142.63	143.08	143.55	142.48	143.86	146.64	149.54	145.06	143.52	143.04	142.84	142.57	
25	142.60	143.09	143.43	142.45	144.23	146.83	149.48	145.03	143.52	143.04	142.81	142.56	
26	142.60	143.16	143.37	142.42	144.51	147.15	149.38	144.99	143.51	143.04	142.82	142.55	
27	142.61	143.21	143.50	142.41	144.66	147.45	149.24	144.97	143.50	143.03	142.84	142.54	
28	142.75	143.19	143.71	142.39	144.70	147.48	149.04	144.92	143.49	143.02	142.84	142.53	
29	142.84	143.19	143.86	142.38	144.67	147.49	148.83	144.86	143.52	142.99	142.82	142.52	
30	142.87	143.18	143.88	142.38	144.60	147.46	148.61	144.78	143.51	142.97		142.51	
31		143.13		142.44	144.62		148.35		143.50	142.95		142.49	
MEAN	142.60	143.01	143.64	142.92	143.18	145.76	148.81	145.35	143.86	143.18	142.95	142.64	
MAX	142.87	143.28	144.45	143.80	144.70	147.49	149.57	148.08	144.69	143.48	143.08	142.80	149.57
MIN	142.46	142.77	143.00	142.38	142.36	144.40	147.50	144.45	143.49	142.95	142.81	142.49	142.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 149.58 M (MSL), AT 18.00 HOURS, ON OCT 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 142.71 M (MSL), RIVER BED 138.70 M (MSL)
LEFT BANK ELEVATION 153.67 M (MSL)
RIGHT BANK ELEVATION 152.83 M (MSL), DRAINAGE AREA 13171 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	1.75	4.40	19.00	0.32	45.75	180.00	214.80	47.07	12.60	2.75	1.50	
2	0.47	1.65	3.65	15.80	0.32	47.07	183.60	194.40	44.43	12.00	2.60	1.38	
3	0.44	1.55	3.50	12.00	0.29	53.01	192.60	174.60	41.13	11.20	2.45	1.34	
4	0.38	1.50	4.25	9.40	0.26	59.20	211.20	150.00	37.83	10.40	2.30	1.34	
5	0.38	1.50	4.55	7.40	0.26	52.35	221.40	126.86	34.86	10.00	2.90	1.34	
6	0.38	1.46	4.85	9.00	0.20	49.05	230.40	105.20	32.88	9.80	4.10	1.30	
7	0.47	1.46	5.80	13.00	0.18	50.04	238.20	88.46	31.56	9.40	4.55	1.30	
8	0.50	1.46	5.80	13.60	0.20	46.08	243.60	77.60	28.59	9.00	4.70	1.26	
9	0.56	1.38	6.00	12.20	0.16	43.11	248.40	71.20	26.28	8.60	4.70	1.10	
10	0.65	1.38	8.60	9.20	0.16	42.45	253.80	63.60	23.97	8.40	4.55	1.04	
11	0.68	1.55	13.60	6.40	0.14	37.50	258.00	54.80	22.32	8.40	4.70	0.98	
12	0.83	1.70	16.60	4.25	0.18	48.06	262.80	48.06	20.60	7.80	4.70	0.95	
13	0.86	1.80	19.00	3.20	0.16	60.40	269.60	43.44	19.80	7.40	4.40	0.92	
14	0.86	3.95	24.63	2.30	0.14	75.60	276.60	40.14	19.00	7.60	3.50	0.89	
15	0.86	4.70	32.22	1.85	0.12	87.48	278.70	39.15	18.20	7.80	2.90	0.80	
16	0.86	5.00	37.50	1.75	0.16	94.86	277.30	39.15	18.00	7.20	2.45	0.86	
17	0.83	7.20	39.15	1.60	0.65	100.28	277.30	40.14	17.40	6.00	2.45	0.89	
18	1.04	8.60	38.49	1.46	10.20	104.71	279.40	42.12	16.60	5.40	2.90	0.89	
19	1.22	7.60	35.85	1.30	24.30	107.17	282.90	45.09	15.40	5.00	3.20	0.86	
20	1.04	7.80	32.88	1.10	21.66	110.62	287.80	50.37	15.00	4.85	2.75	0.83	
21	0.98	7.20	27.60	0.98	16.20	116.03	296.20	56.40	14.80	4.70	2.15	0.83	
22	0.95	6.60	21.66	0.80	12.00	121.94	306.00	61.20	14.20	4.55	2.00	0.80	
23	0.98	5.40	17.40	0.59	12.40	125.38	310.90	62.40	13.60	4.25	1.85	0.74	
24	0.89	4.70	14.00	0.44	20.20	132.28	308.80	60.40	13.40	4.10	1.70	0.71	
25	0.80	4.85	11.60	0.35	31.89	141.63	304.60	59.20	13.40	4.10	1.55	0.68	
26	0.80	6.20	10.40	0.26	41.13	159.00	297.60	57.60	13.20	4.10	1.60	0.65	
27	0.83	7.20	13.00	0.23	46.08	177.00	287.80	56.80	13.00	3.95	1.70	0.62	
28	1.30	6.80	17.20	0.18	47.40	178.80	273.80	54.80	12.80	3.80	1.70	0.59	
29	1.70	6.80	20.20	0.16	46.41	179.40	259.80	52.68	13.40	3.35	1.60	0.56	
30	1.85	6.60	20.60	0.16	44.10	177.60	246.60	50.04	13.20	3.05		0.53	
31		5.60		0.32	44.76		231.00		13.00	2.75		0.47	
TOTAL	24.89	132.94	514.98	150.28	422.63	2823.85	8076.70	2280.70	678.92	211.55	85.40	28.95	15431.79 CMSDAY
MEAN	0.83	4.29	17.17	4.85	13.63	94.13	260.54	76.02	21.90	6.82	2.94	0.93	42.16 CMS
MAX	1.85	8.60	39.15	19.00	47.40	179.40	310.90	214.80	47.07	12.60	4.70	1.50	310.90 CMS
MIN	0.38	1.38	3.50	0.16	0.12	37.50	180.00	39.15	12.80	2.75	1.55	0.47	0.12 CMS
RUNOFF	2.150	11.486	44.494	12.984	36.515	243.981	697.827	197.053	58.659	18.278	7.379	2.501	1333.307 MCM

MOMENTARY PEAK 311.60 CMS, AT 149.58 M (MSL), AT 18.00 HOURS, ON OCT 23, 1987

RUNOFF YIELD 3.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

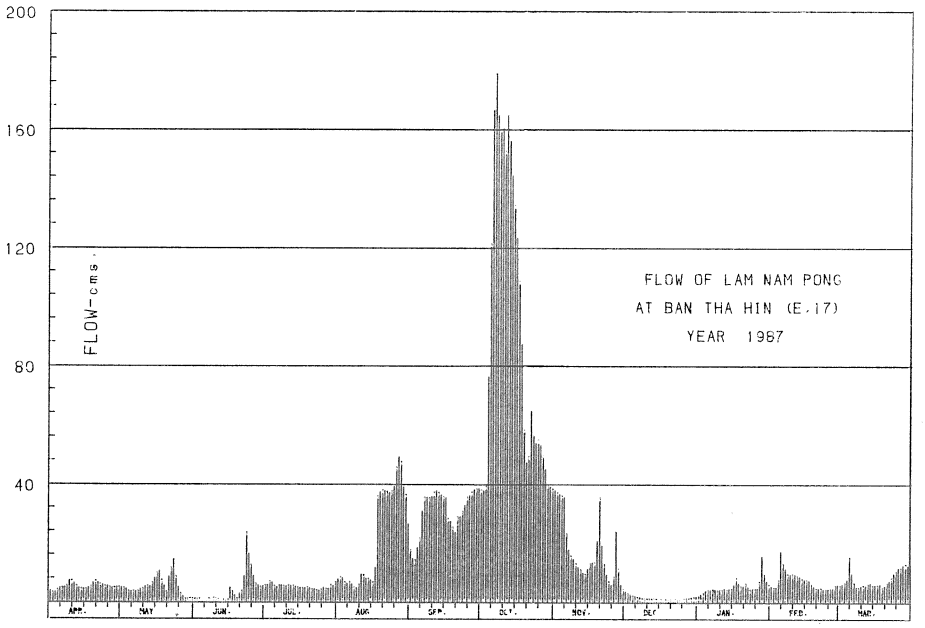
LAM NAM PHONG AT BAN THA HIN, KHON KAEN (E.17).

LOCATION	LAT. 16°-26'-20" N., LONG. 102°-56'-52" E., ON LEFT BANK AT THE BRIDGE OF KHON KAEN-KALASIN HIGHWAY, BAN THA HIN, TAM BON THA HIN, AMPHOE MUANG, KHON KAEN.
DRAINAGE AREA	14,426 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+140.821 M.(M.S.L.).
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+151.215 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	1965-1973, 1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1973, 1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	141.72	141.83	141.45	141.90	142.08	142.77	144.44	144.33	141.69	141.56	141.86	141.89	
2	141.68	141.82	141.44	141.90	142.15	142.60	144.28	144.08	141.65	141.61	141.83	141.92	
3	141.67	141.78	141.46	142.02	142.12	142.57	144.97	143.84	141.61	141.66	141.83	141.97	
4	141.76	141.72	141.43	141.99	142.00	142.80	146.25	143.58	141.58	141.71	142.07	142.07	
5	141.81	141.70	141.40	141.88	141.95	142.93	146.85	143.26	141.56	141.76	142.74	142.63	
6	141.82	141.72	141.44	141.84	142.00	143.13	147.21	142.98	141.54	141.74	142.49	142.25	
7	141.83	141.70	141.45	141.89	141.92	143.35	147.29	142.77	141.52	141.77	142.37	141.97	
8	141.88	141.72	141.44	141.89	141.84	143.33	147.20	142.66	141.50	141.76	142.25	141.84	
9	142.04	141.77	141.50	141.88	141.81	143.23	147.17	142.59	141.48	141.74	142.23	141.84	
10	142.04	141.80	141.46	141.86	141.92	143.48	147.17	142.50	141.47	141.75	142.25	141.87	
11	141.96	141.85	141.42	141.90	142.23	144.11	147.12	142.41	141.47	141.76	142.23	141.89	
12	141.88	141.89	141.40	141.87	142.22	144.31	147.20	142.36	141.46	141.79	142.19	141.87	
13	141.81	141.85	141.39	141.89	142.10	144.08	147.15	142.28	141.46	141.77	142.16	141.94	
14	141.79	141.98	141.38	141.85	142.10	143.74	147.06	142.24	141.45	141.78	142.10	141.96	
15	141.78	142.11	141.42	141.83	142.05	143.41	146.98	142.37	141.44	141.80	142.07	141.90	
16	141.78	142.28	141.82	141.82	142.00	143.24	146.87	142.50	141.43	141.90	142.08	141.90	
17	141.82	142.32	141.71	141.81	142.40	143.09	146.71	142.51	141.43	142.13	142.04	141.90	
18	141.86	142.06	141.58	141.81	143.55	143.07	146.43	142.52	141.42	141.95	141.93	141.92	
19	141.97	141.87	141.49	141.84	144.13	143.03	145.92	142.89	141.43	141.87	141.85	141.83	
20	142.04	141.70	141.63	141.81	144.41	142.99	145.54	143.30	141.41	141.86	141.81	141.87	
21	141.99	142.16	141.72	141.78	144.36	143.10	145.67	142.83	141.40	141.96	141.80	141.97	
22	141.94	142.40	142.18	141.78	144.20	143.10	146.05	142.48	141.40	141.84	141.81	142.03	
23	141.91	142.58	142.99	141.75	144.06	143.13	145.90	142.22	141.40	141.77	141.76	142.14	
24	141.88	142.18	142.70	141.73	144.26	143.16	145.81	142.01	141.40	141.78	141.77	142.26	
25	141.87	141.84	142.46	141.77	144.87	143.38	145.84	141.90	141.42	141.79	141.77	142.32	
26	141.84	141.65	142.19	141.82	145.45	143.62	145.79	142.17	141.45	141.80	141.78	142.39	
27	141.82	141.55	141.95	141.79	145.66	144.15	145.70	143.00	141.48	142.02	141.79	142.40	
28	141.83	141.47	141.89	141.79	145.56	144.45	145.40	142.38	141.50	142.64	141.89	142.46	
29	141.84	141.46	141.85	141.91	144.81	144.57	145.05	141.90	141.52	142.23	141.90	142.48	
30	141.84	141.49	141.87	141.87	143.79	144.57	144.81	141.78	141.53	142.02		142.45	
31		141.48		142.00	143.05		144.56		141.54	141.92		142.46	
MEAN	141.86	141.86	141.72	141.85	143.13	143.42	146.14	142.69	141.49	141.85	142.02	142.08	
MAX	142.04	142.58	142.99	142.02	145.66	144.57	147.29	144.33	141.69	142.64	142.74	142.63	147.29
MIN	141.67	141.46	141.38	141.73	141.81	142.57	144.28	141.78	141.40	141.56	141.76	141.83	141.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 147.31 M (MSL), AT 14.00 HOURS, ON OCT 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 140.82 M (MSL), RIVER BED 139.23 M (MSL)
LEFT BANK ELEVATION 151.77 M (MSL)
RIGHT BANK ELEVATION 151.20 M (MSL), DRAINAGE AREA 14426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.92	5.13	1.25	5.90	7.88	17.90	38.20	37.93	3.59	2.16	5.46	5.79	
2	3.48	5.02	1.20	5.90	8.65	14.90	37.80	37.30	3.15	2.71	5.13	6.12	
3	3.37	4.58	1.30	7.22	8.32	14.42	39.53	36.70	2.71	3.26	5.13	6.67	
4	4.36	3.92	1.15	6.89	7.00	18.50	76.50	36.16	2.38	3.81	7.77	7.77	
5	4.91	3.70	1.00	5.68	6.45	21.90	121.50	35.56	2.16	4.36	17.30	15.38	
6	5.02	3.92	1.20	5.24	7.00	30.95	166.70	23.40	1.94	4.14	13.15	9.75	
7	5.13	3.70	1.25	5.79	6.12	35.70	180.30	17.90	1.72	4.47	11.35	6.67	
8	5.68	3.92	1.20	5.79	5.24	35.66	165.00	15.86	1.50	4.36	9.75	5.24	
9	7.44	4.47	1.50	5.68	4.91	35.53	160.50	14.74	1.40	4.14	9.53	5.24	
10	7.44	4.80	1.30	5.46	6.12	35.96	160.50	13.30	1.35	4.25	9.75	5.57	
11	6.56	5.35	1.10	5.90	9.53	37.37	153.00	11.95	1.35	4.36	9.53	5.79	
12	5.68	5.79	1.00	5.57	9.42	37.88	165.00	11.20	1.30	4.69	9.09	5.57	
13	4.91	5.35	0.95	5.79	8.10	37.30	157.50	10.08	1.30	4.47	8.76	6.34	
14	4.69	6.78	0.90	5.35	8.10	36.48	144.60	9.64	1.25	4.58	8.10	6.56	
15	4.58	8.21	1.10	5.13	7.55	35.82	134.50	11.35	1.20	4.80	7.77	5.90	
16	4.58	10.08	5.02	5.02	7.00	35.54	123.50	13.30	1.15	5.90	7.88	5.90	
17	5.02	10.60	3.81	4.91	11.80	28.50	108.85	13.46	1.15	8.43	7.44	5.90	
18	5.46	7.66	2.38	4.91	36.10	27.50	87.45	13.62	1.10	6.45	6.23	6.12	
19	6.67	5.57	1.45	5.24	37.43	25.50	58.40	20.75	1.15	5.57	5.35	5.13	
20	7.44	3.70	2.93	4.91	38.13	23.70	47.39	35.60	1.05	5.46	4.91	5.57	
21	6.89	8.76	3.92	4.58	38.00	29.00	49.51	19.25	1.00	6.56	4.80	6.67	
22	6.34	11.80	8.98	4.58	37.60	29.00	64.75	13.00	1.00	5.24	4.91	7.33	
23	6.01	14.58	23.70	4.25	37.25	30.95	57.50	9.42	1.00	4.47	4.36	8.54	
24	5.68	8.98	16.50	4.03	37.75	32.90	53.90	7.11	1.00	4.58	4.47	9.86	
25	5.57	5.24	12.70	4.47	39.28	35.76	55.10	5.90	1.10	4.69	4.47	10.60	
26	5.24	3.15	9.09	5.02	45.92	36.24	53.15	8.87	1.25	4.80	4.58	11.65	
27	5.02	2.05	6.45	4.69	49.35	37.48	50.00	24.00	1.40	7.22	4.69	11.80	
28	5.13	1.35	5.79	4.69	47.71	38.23	45.10	11.50	1.50	15.54	5.79	12.70	
29	5.24	1.30	5.35	6.01	39.13	38.53	39.90	5.90	1.72	9.53	5.90	13.00	
30	5.24	1.45	5.57	5.57	36.58	38.53	39.13	4.58	1.83	7.22		12.55	
31		1.40		7.00	26.50		38.50		1.94	6.12		12.70	
TOTAL	162.70	172.31	131.04	167.17	675.92	933.63	2873.26	529.33	48.64	168.34	213.35	250.38	6326.07 CMSDAY
MEAN	5.42	5.56	4.37	5.39	21.80	31.12	92.69	17.64	1.57	5.43	7.36	8.08	17.28 CMS
MAX	7.44	14.58	23.70	7.22	49.35	38.53	180.30	37.93	3.59	15.54	17.30	15.38	180.30 CMS
MIN	3.37	1.30	0.90	4.03	4.91	14.42	37.80	4.58	1.00	2.16	4.36	5.13	0.90 CMS
RUNOFF	14.057	14.888	11.322	14.443	58.399	80.666	248.250	45.734	4.202	14.545	18.433	21.633	546.573 MCM

MOMENTARY PEAK 183.80 CMS, AT 147.31 M (MSL), AT 14.00 HOURS, ON OCT 7, 1987

RUNOFF YIELD 1.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 12.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

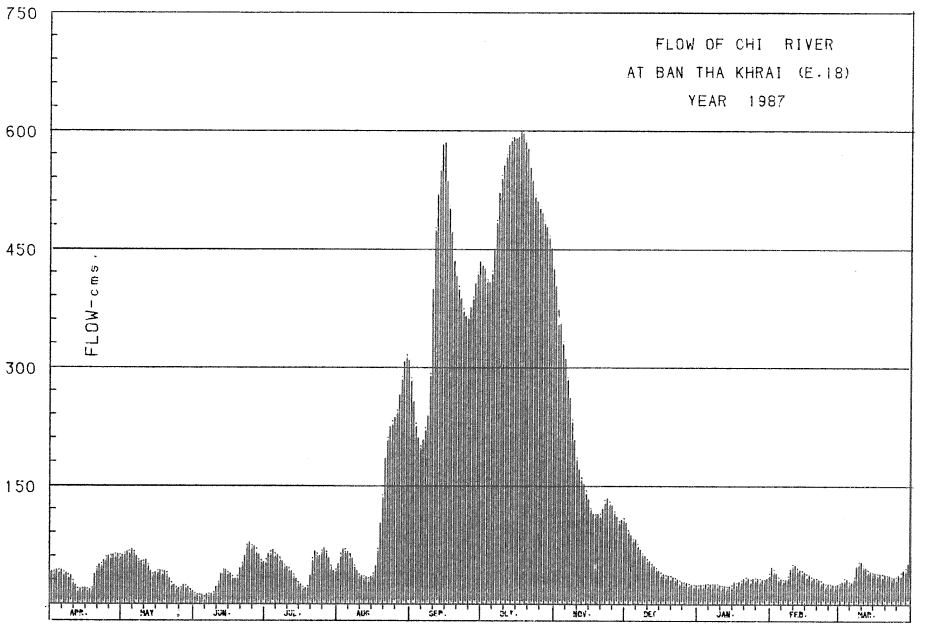
CHI RIVER AT BAN THA KHRAI, ROI ET (E.18)

LOCATION	LAT. 16°-01'-59" N., LONG. 103°-54'-38" E., ON LEFT BANK AT BAN THA KHRAI,AMPHOE SELAPHUM, ROI ET.
DRAINAGE AREA	41,594 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+122.244 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+135.187 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 172 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	123.71	124.09	123.07	124.00	123.89	127.03	129.12	128.12	124.81	123.35	123.81	123.41	
2	123.72	124.15	123.02	124.12	124.13	126.71	129.06	127.90	124.66	123.36	123.76	123.45	
3	123.75	124.17	123.02	124.18	124.23	126.42	128.96	127.70	124.55	123.37	123.67	123.54	
4	123.75	124.19	122.99	124.21	124.23	126.21	128.93	127.49	124.46	123.38	123.57	123.52	
5	123.74	124.23	122.95	124.14	124.17	126.10	129.04	127.27	124.45	123.39	123.53	123.45	
6	123.71	124.18	123.02	124.10	124.11	126.18	129.22	127.04	124.35	123.37	123.51	123.43	
7	123.67	124.06	123.05	124.03	124.01	126.36	129.41	126.76	124.21	123.38	123.51	123.58	
8	123.64	123.99	123.03	123.95	123.85	126.52	129.56	126.47	124.13	123.38	123.60	123.83	
9	123.61	123.95	123.09	123.87	123.73	127.09	129.65	126.18	124.07	123.38	123.77	123.94	
10	123.48	123.96	123.29	123.82	123.64	128.09	129.70	125.93	124.00	123.35	123.88	123.93	
11	123.34	123.98	123.44	123.80	123.60	128.76	129.75	125.74	123.95	123.33	123.86	123.87	
12	123.24	123.88	123.65	123.72	123.60	129.11	129.79	125.61	123.89	123.32	123.79	123.80	
13	123.22	123.72	123.76	123.64	123.58	129.40	129.82	125.51	123.84	123.31	123.75	123.75	
14	123.24	123.66	123.75	123.53	123.55	129.62	129.82	125.40	123.79	123.31	123.73	123.71	
15	123.24	123.69	123.70	123.44	123.58	129.68	129.83	125.24	123.73	123.35	123.70	123.69	
16	123.21	123.74	123.66	123.37	123.67	129.62	129.82	125.08	123.69	123.44	123.66	123.68	
17	123.18	123.74	123.60	123.30	123.84	129.49	129.78	124.97	123.65	123.42	123.63	123.67	
18	123.27	123.72	123.53	123.25	124.24	129.33	129.73	124.97	123.62	123.45	123.58	123.66	
19	123.64	123.72	123.60	123.32	124.80	129.15	129.67	124.97	123.61	123.49	123.55	123.65	
20	123.81	123.69	123.78	123.61	125.32	128.99	129.58	124.98	123.60	123.53	123.54	123.64	
21	123.87	123.54	123.91	124.02	125.91	128.89	129.43	125.07	123.57	123.57	123.51	123.62	
22	123.90	123.43	124.07	124.18	126.22	128.76	129.26	125.23	123.55	123.54	123.48	123.61	
23	123.97	123.35	124.33	124.13	126.37	128.65	129.12	125.26	123.52	123.51	123.43	123.58	
24	124.05	123.28	124.38	124.07	126.45	128.55	129.04	125.20	123.48	123.54	123.39	123.57	
25	124.07	123.24	124.32	124.20	126.50	128.56	128.99	125.13	123.46	123.55	123.39	123.58	
26	124.09	123.27	124.29	124.25	126.60	128.66	128.92	125.02	123.44	123.54	123.38	123.63	
27	124.10	123.35	124.24	124.17	126.80	128.78	128.84	124.92	123.42	123.53	123.36	123.69	
28	124.12	123.34	124.11	124.02	127.05	128.92	128.77	124.84	123.39	123.51	123.34	123.74	
29	124.11	123.28	123.98	123.85	127.24	129.03	128.68	124.87	123.36	123.51	123.37	123.79	
30	124.10	123.20	123.93	123.73	127.33	129.12	128.54	124.90	123.36	123.54		123.90	
31		123.13		123.76	127.26		128.34		123.35	123.67		124.06	
MEAN	123.69	123.71	123.62	123.86	124.95	128.26	129.30	125.79	123.84	123.44	123.59	123.68	
MAX	124.12	124.23	124.38	124.25	127.33	129.68	129.83	128.12	124.81	123.67	123.88	124.06	129.83
MIN	123.18	123.13	122.95	123.25	123.55	126.10	128.34	124.84	123.35	123.31	123.34	123.41	122.95

ANNUAL MAX MOMENTARY GAGE HEIGHT 129.83 M (MSL), AT 24.00 HOURS, ON OCT 15, 1987
ZERO GAGE AT BOTTOM ELEVATION 122.24 M (MSL), RIVER BED 119.96 M (MSL)
LEFT BANK ELEVATION 133.00 M (MSL)
RIGHT BANK ELEVATION 132.65 M (MSL), DRAINAGE AREA 41594 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	41.1	61.9	13.9	57.0	51.0	286.8	434.2	402.8	103.1	24.0	46.6	26.4	
2	41.6	65.3	12.2	63.6	64.1	256.4	425.4	377.5	93.6	24.4	43.8	28.2	
3	43.3	66.4	12.2	66.9	69.6	229.3	411.8	355.5	87.2	24.8	39.0	32.5	
4	43.3	67.4	11.2	68.6	69.6	210.4	407.9	332.9	82.3	25.2	34.0	31.5	
5	42.7	69.6	9.9	64.7	66.4	200.5	422.6	310.5	81.7	25.6	32.0	28.2	
6	41.1	66.9	12.2	62.5	63.1	207.7	450.6	287.8	76.3	24.8	31.0	27.3	
7	39.0	60.3	13.2	58.7	57.5	223.9	487.2	261.2	68.6	25.2	31.0	34.5	
8	37.5	56.5	12.5	54.2	48.8	238.4	521.4	233.8	64.1	25.2	35.5	47.6	
9	36.0	54.2	14.6	49.8	42.1	292.5	543.5	207.7	60.9	25.2	44.3	53.7	
10	29.6	54.8	21.6	47.1	37.5	399.3	556.0	186.0	57.0	24.0	50.4	53.2	
11	23.6	55.9	27.8	46.0	35.5	476.7	570.5	170.7	54.2	23.2	49.3	49.8	
12	19.9	50.4	38.0	41.6	35.5	518.7	582.1	160.3	51.0	22.8	45.5	46.0	
13	19.2	41.6	43.8	37.5	34.5	554.0	591.8	152.3	48.2	22.4	43.3	43.3	
14	19.9	38.5	43.3	32.0	33.0	582.1	591.8	144.3	45.5	22.4	42.1	41.1	
15	19.9	40.0	40.5	27.8	34.5	589.9	595.2	132.8	42.1	24.0	40.5	40.0	
16	18.8	42.7	38.5	24.8	39.0	536.0	591.8	121.6	40.0	27.8	38.5	39.5	
17	17.8	42.7	35.5	22.0	48.2	504.8	602.9	113.9	38.0	26.9	37.0	39.0	
18	20.9	41.6	32.0	20.2	70.2	471.0	596.4	113.9	36.5	28.2	34.5	38.5	
19	37.5	41.6	35.5	22.8	102.5	439.0	588.6	113.9	36.0	30.0	33.0	38.0	
20	46.6	40.0	44.9	36.0	138.4	415.7	576.9	114.6	35.5	32.0	32.5	37.5	
21	49.8	32.5	52.0	58.1	184.3	402.8	557.7	120.9	34.0	34.0	31.0	36.5	
22	51.5	27.3	60.9	66.9	211.3	387.2	536.7	132.1	33.0	32.5	29.6	36.0	
23	55.4	24.0	75.1	64.1	224.8	374.7	519.9	134.2	31.5	31.0	27.3	34.5	
24	59.7	21.3	77.9	60.9	232.0	364.5	510.3	130.0	29.6	32.5	25.6	34.0	
25	60.9	19.9	74.6	68.0	236.5	365.5	504.3	125.1	28.7	33.0	25.6	34.5	
26	61.9	20.9	73.0	70.8	246.0	375.8	495.9	117.4	27.8	32.5	25.2	37.0	
27	62.5	24.0	70.2	66.4	265.0	389.6	486.3	110.4	26.9	32.0	24.4	40.0	
28	63.6	23.6	63.1	58.1	288.7	406.6	477.9	105.1	25.6	31.0	23.6	42.7	
29	63.1	21.3	55.9	48.8	307.5	421.2	467.2	107.0	24.4	31.0	24.8	45.5	
30	62.5	18.5	53.2	42.1	316.5	434.2	451.1	109.0	24.4	32.5		51.5	
31		16.0		43.8	309.5		428.1		24.0	39.0		60.3	
TOTAL	1230.2	1307.6	1169.2	1551.8	3963.1	11555.2	15984.0	5485.2	1511.7	869.1	1020.9	1228.3	46876.3 CMSDAY
MEAN	41.0	42.2	39.0	50.1	127.8	385.2	515.6	182.8	48.8	28.0	35.2	39.6	128.1 CMS
MAX	63.6	69.6	77.9	70.8	316.5	589.9	602.9	402.8	103.1	39.0	50.4	60.3	602.9 CMS
MIN	17.8	16.0	9.9	20.2	33.0	200.5	407.9	105.1	24.0	22.4	23.6	26.4	9.9 CMS
RUNOFF	106.29	112.98	101.02	134.08	342.41	998.37	1381.02	473.92	130.61	75.09	88.21	106.13	4050.11 MCM

MOMENTARY PEAK 595.20 CMS, AT 129.83 M (MSL), AT 24.00 HOURS, ON OCT 15, 1987

RUNOFF YIELD 3.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

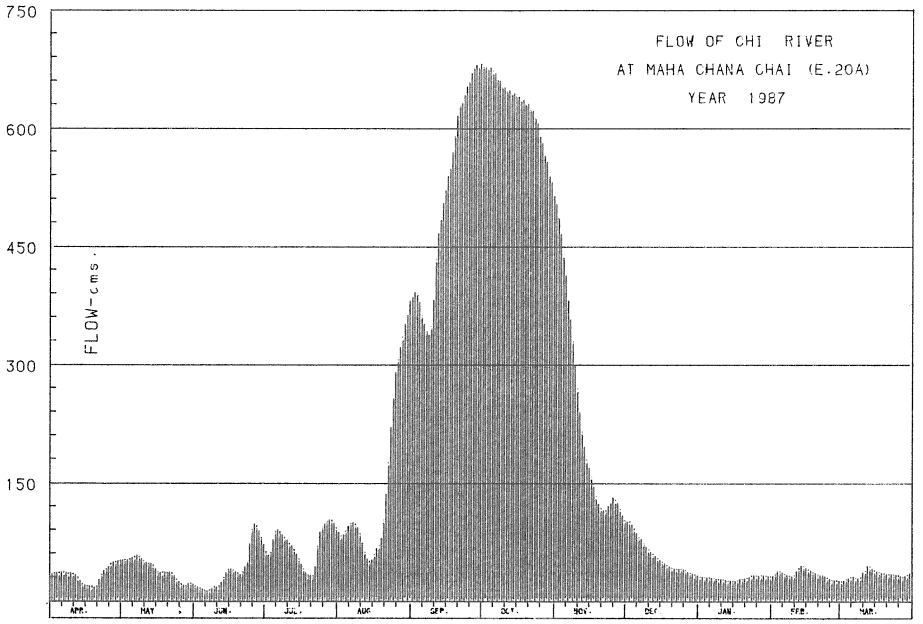
CHI RIVER AT MAHA CHANA CHAI, YASOTHON (E.20A)

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	STAFF GAGE.
ZERO GAGE AT BOTTOM	+112.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+127.138 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	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 BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 340 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	114.83	115.17	114.52	115.36	115.77	119.44	120.99	119.66	116.00	114.76	114.78	114.65	
2	114.86	115.18	114.49	115.28	115.70	119.46	120.96	119.55	116.00	114.76	114.82	114.66	
3	114.87	115.17	114.46	115.34	115.72	119.45	120.97	119.37	115.94	114.75	114.90	114.70	
4	114.87	115.20	114.43	115.62	115.81	119.33	120.96	119.17	115.85	114.74	114.90	114.73	
5	114.88	115.22	114.40	115.80	115.90	119.16	120.93	118.96	115.75	114.74	114.87	114.75	
6	114.89	115.25	114.38	115.83	115.96	119.04	120.90	118.74	115.67	114.73	114.83	114.76	
7	114.87	115.28	114.41	115.79	115.98	118.94	120.86	118.51	115.63	114.73	114.81	114.73	
8	114.85	115.25	114.44	115.72	115.95	118.89	120.82	118.28	115.55	114.71	114.79	114.72	
9	114.86	115.20	114.50	115.67	115.87	119.01	120.78	118.02	115.47	114.70	114.77	114.75	
10	114.84	115.15	114.48	115.61	115.75	119.36	120.75	117.76	115.41	114.70	114.80	114.87	
11	114.81	115.11	114.52	115.54	115.55	119.88	120.74	117.48	115.35	114.69	114.90	114.91	
12	114.75	115.09	114.62	115.49	115.35	120.21	120.72	117.24	115.31	114.68	114.98	115.03	
13	114.66	115.09	114.74	115.41	115.19	120.42	120.71	117.04	115.26	114.66	115.04	115.02	
14	114.58	115.05	114.86	115.31	115.14	120.58	120.69	116.87	115.21	114.66	115.03	114.97	
15	114.54	114.96	114.95	115.20	115.17	120.77	120.68	116.76	115.17	114.65	114.98	114.93	
16	114.52	114.89	114.96	115.07	115.30	120.91	120.65	116.64	115.13	114.65	114.95	114.90	
17	114.51	114.87	114.93	114.96	115.43	121.03	120.64	116.49	115.09	114.67	114.92	114.88	
18	114.51	114.88	114.89	114.86	115.50	121.15	120.62	116.36	115.05	114.70	114.88	114.86	
19	114.48	114.88	114.86	114.81	115.65	121.26	120.60	116.25	115.02	114.70	114.86	114.85	
20	114.51	114.87	114.82	114.80	116.03	121.35	120.58	116.19	114.99	114.72	114.82	114.83	
21	114.68	114.88	114.88	114.79	116.50	121.40	120.55	116.16	114.97	114.73	114.80	114.83	
22	114.82	114.86	115.01	115.01	117.04	121.41	120.52	116.16	114.96	114.76	114.88	114.83	
23	114.91	114.79	115.18	115.48	117.59	121.40	120.48	116.22	114.96	114.79	114.77	114.82	
24	114.96	114.70	115.53	115.78	118.06	121.36	120.41	116.31	114.96	114.80	114.74	114.81	
25	115.01	114.64	115.84	115.90	118.38	121.31	120.32	116.34	114.95	114.79	114.71	114.80	
26	115.09	114.58	115.95	115.95	118.57	121.26	120.23	116.31	114.93	114.79	114.68	114.78	
27	115.12	114.54	115.91	116.01	118.73	121.19	120.14	116.26	114.88	114.80	114.68	114.76	
28	115.13	114.53	115.80	116.03	118.87	121.13	120.06	116.18	114.86	114.80	114.67	114.78	
29	115.15	114.58	115.66	116.03	119.04	121.07	119.96	116.09	114.84	114.79	114.66	114.81	
30	115.16	114.60	115.52	115.97	119.21	121.02	119.87	116.02	114.82	114.78		114.85	
31		114.57		115.87	119.35		119.77		114.79	114.77		114.88	
MEAN	114.82	114.94	114.93	115.49	116.58	120.41	120.58	117.25	115.25	114.73	114.84	114.82	
MAX	115.16	115.28	115.95	116.03	119.35	121.41	120.99	119.66	116.00	114.80	115.04	115.03	121.41
MIN	114.48	114.53	114.38	114.79	115.14	118.89	119.77	116.02	114.79	114.65	114.66	114.65	114.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 121.41 M (MSL), AT 24.00 HOURS, ON SEP 22, 1987
ZERO GAGE AT BOTTOM ELEVATION 112.00 M (MSL), RIVER BED 112.05 M (MSL)
LEFT BANK ELEVATION 125.11 M (MSL)
RIGHT BANK ELEVATION 125.15 M (MSL), DRAINAGE AREA 47818 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	34.5	52.3	19.4	62.8	87.2	390.0	680.8	503.8	101.0	31.0	32.0	25.5	
2	36.0	52.9	18.0	58.4	83.0	392.0	677.2	489.5	101.0	31.0	34.0	26.0	
3	36.5	52.3	16.7	61.7	84.2	391.0	678.4	466.1	97.4	30.5	38.0	28.0	
4	36.5	54.0	15.3	78.2	89.6	379.4	677.2	440.1	92.0	30.0	38.0	29.5	
5	37.0	55.1	14.0	89.0	95.0	363.2	673.6	413.0	86.0	30.0	36.5	30.5	
6	37.5	56.7	13.2	90.8	98.6	351.8	670.0	385.5	81.2	29.5	34.5	31.0	
7	36.5	58.4	14.5	88.4	99.8	342.3	665.2	357.2	78.8	29.5	33.5	29.5	
8	35.5	56.7	15.8	84.2	98.0	337.5	660.4	329.6	74.0	28.5	32.5	29.0	
9	36.0	54.0	18.5	81.2	93.2	349.0	655.6	299.3	69.2	28.0	31.5	30.5	
10	35.0	51.3	17.6	77.6	86.0	382.2	652.0	269.6	65.6	28.0	33.0	36.5	
11	33.5	49.1	19.4	73.4	74.0	434.0	650.8	239.4	62.2	27.5	38.0	38.5	
12	30.5	47.9	24.0	70.4	62.2	467.0	648.4	215.0	60.0	27.0	42.0	44.6	
13	26.0	47.9	30.0	65.6	53.5	488.1	647.2	195.8	57.3	26.0	45.2	44.1	
14	22.1	45.8	36.0	60.0	50.7	504.9	644.8	179.7	54.5	26.0	44.6	41.5	
15	20.3	41.0	40.5	54.0	52.3	524.9	643.6	169.4	52.3	25.5	42.0	39.5	
16	19.4	37.5	41.0	46.8	59.5	539.6	640.0	158.6	50.1	25.5	40.5	38.0	
17	19.0	36.5	39.5	41.0	66.8	553.2	638.8	145.1	47.9	26.5	39.0	37.0	
18	19.0	37.0	37.5	36.0	71.0	570.0	636.4	133.4	45.8	28.0	37.0	36.0	
19	17.6	37.0	36.0	33.5	80.0	592.8	634.0	123.5	44.1	28.0	36.0	35.5	
20	19.0	36.5	34.0	33.0	103.1	616.4	631.1	118.1	42.5	29.0	34.0	34.5	
21	27.0	37.0	37.0	32.5	136.0	629.5	626.8	115.4	41.5	29.5	33.0	34.5	
22	34.0	36.0	43.6	43.6	176.0	632.1	622.4	115.4	41.0	31.0	37.0	34.5	
23	38.5	32.5	52.9	69.8	220.5	646.7	616.6	120.8	41.0	32.5	31.5	34.0	
24	41.0	28.0	72.8	87.8	261.4	653.3	606.5	128.9	41.0	33.0	30.0	33.5	
25	43.6	25.0	91.4	95.0	290.2	661.7	593.8	131.6	40.5	32.5	28.5	33.0	
26	47.9	22.1	98.0	98.0	307.3	670.0	581.2	128.9	39.5	32.5	27.0	32.0	
27	49.6	20.3	95.6	101.7	322.4	680.1	568.6	124.4	37.0	33.0	27.0	31.0	
28	50.1	19.8	89.0	103.1	335.7	680.7	557.4	117.2	36.0	33.0	26.5	32.0	
29	51.3	22.1	80.6	103.1	351.8	681.3	543.6	109.1	35.0	32.5	26.0	33.5	
30	51.8	23.0	72.2	99.2	367.9	681.8	531.5	102.8	34.0	32.0		35.5	
31		21.7		93.2	381.2		518.1		32.5	31.5		37.0	
TOTAL	1022.2	1247.4	1234.0	2213.0	4738.1	15586.5	19472.0	6826.2	1781.9	918.0	1008.3	1055.7	57103.3 CMSDAY
MEAN	34.1	40.2	41.1	71.4	152.8	519.5	628.1	227.5	57.5	29.6	34.8	34.1	156.0 CMS
MAX	51.8	58.4	98.0	103.1	381.2	681.8	680.8	503.8	101.0	33.0	45.2	44.6	681.8 CMS
MIN	17.6	19.8	13.2	32.5	50.7	337.5	518.1	102.8	32.5	25.5	26.0	25.5	13.2 CMS
RUNOFF	88.32	107.78	106.62	191.20	409.37	1346.67	1682.38	589.78	153.96	79.32	87.12	91.21	4933.73 MCM

MOMENTARY PEAK 632.13 CMS, AT 121.41 M (MSL), AT 24.00 HOURS, ON SEP 22, 1987
RUNOFF YIELD 3.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

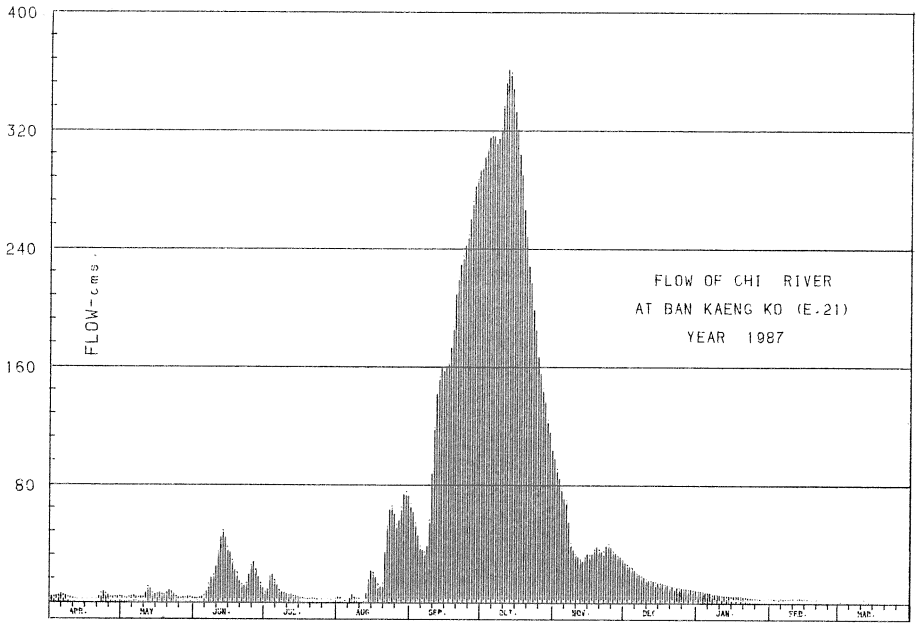
CHI RIVER AT BAN KAENG KO, CHAIYAPHUM (E.21)

LOCATION	LAT. 15°45'07" N., LONG. 102°15'24" E., ON LEFT BANK ABOUT 75 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE MUANG, CHAIYAPHUM.
DRAINAGE AREA	8,912 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE 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, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968-1971, 1973-1974, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.40	1.40	1.36	1.51	1.39	2.63	7.86	3.71	1.95	1.52	1.33	1.25	
2	1.41	1.39	1.35	1.55	1.37	2.55	7.92	3.37	1.93	1.52	1.33	1.26	
3	1.42	1.38	1.37	1.76	1.33	2.44	8.00	3.03	1.90	1.51	1.33	1.30	
4	1.43	1.40	1.39	1.79	1.26	2.29	8.08	2.77	1.89	1.49	1.31	1.31	
5	1.46	1.41	1.44	1.71	1.23	2.18	8.12	2.67	1.85	1.49	1.34	1.30	
6	1.44	1.42	1.51	1.62	1.44	2.12	8.09	2.66	1.81	1.48	1.32	1.29	
7	1.42	1.39	1.65	1.54	1.44	2.10	8.06	2.44	1.79	1.45	1.33	1.29	
8	1.40	1.39	1.74	1.50	1.39	2.17	8.07	2.21	1.77	1.45	1.32	1.31	
9	1.37	1.39	1.79	1.49	1.35	2.47	8.15	2.12	1.75	1.45	1.34	1.31	
10	1.35	1.39	1.90	1.46	1.35	3.20	8.31	2.07	1.73	1.44	1.34	1.32	
11	1.33	1.48	2.10	1.44	1.31	4.59	8.49	2.03	1.70	1.43	1.33	1.31	
12	1.31	1.60	2.27	1.45	1.38	5.38	8.57	2.00	1.70	1.42	1.34	1.29	
13	1.31	1.56	2.35	1.43	1.47	5.78	8.55	1.97	1.69	1.42	1.35	1.26	
14	1.30	1.49	2.27	1.42	1.71	5.92	8.43	2.03	1.68	1.42	1.34	1.24	
15	1.31	1.45	2.16	1.40	1.84	5.93	8.29	2.07	1.66	1.41	1.34	1.23	
16	1.32	1.47	2.09	1.37	1.82	5.94	8.14	2.06	1.66	1.41	1.33	1.23	
17	1.31	1.48	1.99	1.37	1.75	6.02	7.97	2.07	1.65	1.41	1.30	1.26	
18	1.33	1.46	1.85	1.34	1.64	6.19	7.78	2.13	1.64	1.41	1.30	1.27	
19	1.31	1.45	1.82	1.34	1.59	6.42	7.53	2.16	1.62	1.41	1.31	1.26	
20	1.32	1.49	1.69	1.34	1.66	6.73	7.26	2.13	1.61	1.39	1.31	1.24	
21	1.40	1.53	1.64	1.35	2.09	6.90	7.02	2.10	1.60	1.38	1.29	1.21	
22	1.49	1.51	1.61	1.34	2.40	7.01	6.84	2.11	1.59	1.37	1.29	1.20	
23	1.51	1.46	1.66	1.32	2.57	7.09	6.61	2.17	1.58	1.36	1.29	1.20	
24	1.48	1.41	1.79	1.32	2.61	7.18	6.38	2.20	1.58	1.35	1.29	1.19	
25	1.43	1.37	1.92	1.32	2.53	7.28	6.11	2.15	1.57	1.35	1.29	1.19	
26	1.40	1.36	1.96	1.31	2.42	7.42	5.82	2.11	1.56	1.34	1.29	1.19	
27	1.39	1.38	1.86	1.34	2.46	7.57	5.51	2.08	1.56	1.33	1.29	1.19	
28	1.40	1.38	1.76	1.33	2.60	7.69	5.20	2.05	1.55	1.32	1.27	1.17	
29	1.40	1.40	1.66	1.30	2.71	7.75	4.81	2.03	1.55	1.31	1.26	1.17	
30	1.41	1.40	1.57	1.28	2.74	7.82	4.46	1.99	1.54	1.31		1.16	
31		1.38		1.35	2.70		4.07		1.53	1.34		1.17	
MEAN	1.39	1.43	1.78	1.43	1.86	5.23	7.24	2.29	1.68	1.41	1.31	1.24	
MAX	1.51	1.60	2.35	1.79	2.74	7.82	8.57	3.71	1.95	1.52	1.35	1.32	8.57
MIN	1.30	1.36	1.35	1.28	1.23	2.10	4.07	1.97	1.53	1.31	1.26	1.16	1.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.58 M (A.D), AT 24.00 HOURS, ON OCT 12, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.32 M (A.D)
LEFT BANK ELEVATION 9.75 M (A.D)
RIGHT BANK ELEVATION 9.93 M (A.D), DRAINAGE AREA 8912 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.98	3.98	3.19	7.40	3.78	67.25	296.60	97.70	27.00	7.80	2.59	1.25	
2	4.27	3.78	2.99	9.00	3.39	61.50	301.70	90.90	26.00	7.80	2.59	1.40	
3	4.58	3.58	3.39	17.70	2.59	54.40	308.50	84.10	24.50	7.40	2.59	2.00	
4	4.88	3.98	3.78	19.05	1.40	45.40	315.30	77.75	24.00	6.70	2.20	2.20	
5	5.79	4.27	5.18	15.45	0.95	38.90	318.90	70.25	22.00	6.70	2.79	2.00	
6	5.18	4.58	7.40	11.80	5.18	35.60	316.15	69.50	20.00	6.39	2.40	1.85	
7	4.58	3.78	13.00	8.60	5.18	34.50	313.60	54.40	19.05	5.48	2.59	1.85	
8	3.98	3.78	16.80	7.00	3.78	38.35	314.45	40.60	18.15	5.48	2.40	2.20	
9	3.39	3.78	19.05	6.70	2.99	56.20	321.75	35.60	17.25	5.48	2.79	2.20	
10	2.99	3.78	24.50	5.79	2.99	87.50	336.95	33.00	16.35	5.18	2.79	2.40	
11	2.59	6.39	34.50	5.18	2.20	118.75	354.05	31.00	15.00	4.88	2.59	2.20	
12	2.20	11.00	44.20	5.48	3.58	141.40	361.65	29.50	15.00	4.58	2.79	1.85	
13	2.20	9.40	49.00	4.88	6.09	153.80	359.75	28.00	14.60	4.58	2.99	1.40	
14	2.00	6.70	44.20	4.58	15.45	159.40	348.35	31.00	14.20	4.58	2.79	1.10	
15	2.20	5.48	37.80	3.98	21.50	159.85	335.05	33.00	13.40	4.27	2.79	0.95	
16	2.40	6.09	34.00	3.39	20.50	160.30	320.80	32.50	13.40	4.27	2.59	0.95	
17	2.20	6.39	29.00	3.39	17.25	164.00	305.95	33.00	13.00	4.27	2.00	1.40	
18	2.59	5.79	22.00	2.79	12.60	172.95	289.80	36.15	12.60	4.27	2.00	1.55	
19	2.20	5.48	20.50	2.79	10.60	187.40	268.55	37.80	11.80	4.27	2.20	1.40	
20	2.40	6.70	14.60	2.79	13.40	209.10	248.00	36.15	11.40	3.78	2.20	1.10	
21	3.98	8.20	12.60	2.99	34.00	221.00	230.00	34.50	11.00	3.58	1.85	0.65	
22	6.70	7.40	11.40	2.79	52.00	229.25	216.80	35.05	10.60	3.39	1.85	0.50	
23	7.40	5.79	13.40	2.40	62.90	235.25	200.70	38.35	10.20	3.19	1.85	0.50	
24	6.39	4.27	19.05	2.40	65.75	242.00	184.70	40.00	10.20	2.99	1.85	0.45	
25	4.88	3.39	25.50	2.40	60.10	249.50	168.55	37.25	9.80	2.99	1.85	0.45	
26	3.98	3.19	27.50	2.20	53.20	260.00	155.30	35.05	9.40	2.79	1.85	0.45	
27	3.78	3.58	22.50	2.79	55.60	271.95	145.30	33.50	9.40	2.59	1.85	0.45	
28	3.98	3.58	17.70	2.59	65.00	282.15	136.00	32.00	9.00	2.40	1.55	0.35	
29	3.98	3.98	13.40	2.00	73.25	287.25	124.30	31.00	9.00	2.20	1.40	0.35	
30	4.27	3.98	9.80	1.70	75.50	293.20	115.50	29.00	8.60	2.20		0.30	
31		3.58		2.99	72.50		105.75		8.20	2.79		0.35	
TOTAL	115.94	159.65	601.93	174.99	825.20	4718.10	8118.75	1327.60	454.10	139.27	66.57	38.05	16740.15 CMSDAY
MEAN	3.86	5.15	20.06	5.64	26.62	157.27	261.90	44.25	14.65	4.49	2.30	1.23	45.74 CMS
MAX	7.40	11.00	49.00	19.05	75.50	293.20	361.65	97.70	27.00	7.80	2.99	2.40	361.65 CMS
MIN	2.00	3.19	2.99	1.70	0.95	34.50	105.75	28.00	8.20	2.20	1.40	0.30	0.30 CMS
RUNOFF	10.017	13.794	52.007	15.119	71.297	407.644	701.460	114.705	39.234	12.033	5.752	3.288	1446.349 MCM

MOMENTARY PEAK 362.60 CMS, AT 8.58 M (A.D), AT 24.00 HOURS, ON OCT 12, 1987

RUNOFF YIELD 5.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 40.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

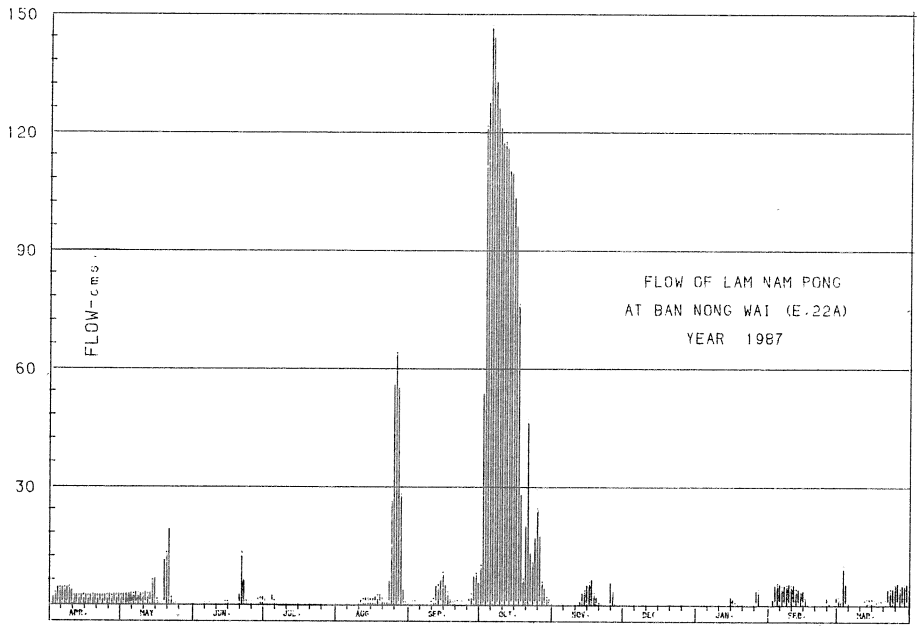
LAM NAM PHONG AT BAN NONG WAI, KHON KAEN (E.22A)

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	+150.92 M.(M.S.L.).
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+161.766 M.(M.S.L.).
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHEMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966-1976, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966-1976, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY UBONRAT DAM ABOVE GAGE SITES. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	153.39	153.43	153.15	153.32	153.12	153.22	153.75	153.22	153.16	153.08	153.10	153.40	
2	153.46	153.43	153.19	153.23	153.13	153.27	155.04	153.21	153.17	153.09	153.38	153.29	
3	153.52	153.43	153.20	153.27	153.13	153.28	156.67	153.20	153.18	153.09	153.54	153.75	
4	153.52	153.43	153.21	153.41	153.15	153.23	156.80	153.18	153.17	153.09	153.57	153.56	
5	153.52	153.44	153.19	153.31	153.14	153.20	157.24	153.16	153.16	153.09	153.56	153.16	
6	153.52	153.44	153.19	153.15	153.13	153.20	157.17	153.17	153.16	153.09	153.53	153.14	
7	153.52	153.45	153.18	153.13	153.14	153.19	156.94	153.17	153.15	153.09	153.54	153.11	
8	153.53	153.44	153.16	153.14	153.14	153.19	156.77	153.18	153.15	153.09	153.55	153.10	
9	153.48	153.43	153.15	153.13	153.14	153.21	156.68	153.18	153.15	153.09	153.56	153.10	
10	153.42	153.43	153.14	153.13	153.14	153.26	156.57	153.18	153.16	153.09	153.55	153.09	
11	153.42	153.45	153.15	153.12	153.29	153.35	156.58	153.17	153.15	153.08	153.55	153.23	
12	153.42	153.44	153.15	153.12	153.34	153.53	156.54	153.34	153.15	153.07	153.50	153.31	
13	153.42	153.44	153.21	153.12	153.35	153.55	156.43	153.44	153.13	153.06	153.49	153.34	
14	153.43	153.61	153.26	153.12	153.35	153.60	156.40	153.48	153.13	153.09	153.46	153.34	
15	153.42	153.62	153.25	153.12	153.34	153.69	156.28	153.54	153.13	153.40	153.47	153.35	
16	153.42	153.34	153.17	153.10	153.34	153.54	156.10	153.59	153.13	153.32	153.36	153.31	
17	153.42	153.25	153.17	153.11	153.38	153.46	155.62	153.61	153.13	153.21	153.19	153.23	
18	153.43	153.21	153.15	153.13	153.42	153.31	154.29	153.45	153.13	153.18	153.12	153.27	
19	153.42	153.79	153.15	153.13	153.42	153.23	153.62	153.37	153.13	153.27	153.11	153.29	
20	153.42	153.85	153.42	153.14	153.36	153.27	154.01	153.20	153.13	153.20	153.10	153.28	
21	153.42	153.99	153.85	153.13	153.27	153.30	154.85	153.17	153.14	153.20	153.09	153.32	
22	153.42	153.38	153.61	153.14	153.35	153.30	153.84	153.18	153.13	153.18	153.08	153.49	
23	153.42	153.22	153.29	153.14	153.59	153.28	153.77	153.18	153.10	153.16	153.14	153.50	
24	153.43	153.20	153.24	153.15	154.23	153.26	153.94	153.16	153.08	153.16	153.16	153.50	
25	153.43	153.18	153.28	153.15	155.10	153.28	154.17	153.57	153.08	153.15	153.36	153.55	
26	153.42	153.17	153.26	153.15	155.31	153.33	153.95	153.46	153.07	153.47	153.14	153.57	
27	153.43	153.17	153.29	153.15	155.08	153.44	153.59	153.18	153.08	153.50	153.13	153.51	
28	153.43	153.16	153.34	153.15	154.30	153.64	153.50	153.18	153.07	153.16	153.24	153.54	
29	153.43	153.16	153.37	153.15	153.48	153.68	153.39	153.18	153.08	153.13	153.38	153.57	
30	153.43	153.16	153.38	153.15	153.22	153.57	153.33	153.15	153.08	153.12		153.56	
31		153.15		153.14	153.20		153.28		153.08	153.10		153.49	
MEAN	153.45	153.40	153.26	153.16	153.52	153.36	155.20	153.28	153.13	153.16	153.34	153.36	
MAX	153.53	153.99	153.85	153.41	155.31	153.69	157.24	153.61	153.18	153.50	153.57	153.75	157.24
MIN	153.39	153.15	153.14	153.10	153.12	153.19	153.28	153.15	153.07	153.06	153.08	153.09	153.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 157.29 M (MSL), AT 21.00 HOURS, ON OCT 5, 1987
ZERO GAGE AT BOTTOM ELEVATION 150.92 M (MSL), RIVER BED 150.64 M (MSL)
LEFT BANK ELEVATION 166.20 M (MSL)
RIGHT BANK ELEVATION 163.98 M (MSL), DRAINAGE AREA 13183 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.90	2.60	0.25	1.20	0.10	0.60	10.00	0.60	0.30	0.00	0.00	2.00	
2	3.20	2.60	0.45	0.65	0.15	0.85	53.48	0.55	0.35	0.00	1.80	0.95	
3	4.40	2.60	0.50	0.85	0.15	0.90	121.55	0.50	0.40	0.00	4.80	10.00	
4	4.40	2.60	0.55	2.20	0.25	0.65	127.37	0.40	0.35	0.00	5.40	5.20	
5	4.40	2.80	0.45	1.10	0.20	0.50	147.14	0.30	0.30	0.00	5.20	0.30	
6	4.40	2.80	0.45	0.25	0.15	0.50	143.96	0.35	0.30	0.00	4.60	0.20	
7	4.40	3.00	0.40	0.15	0.20	0.45	133.65	0.35	0.25	0.00	4.80	0.05	
8	4.60	2.80	0.30	0.20	0.20	0.45	126.03	0.40	0.25	0.00	5.00	0.00	
9	3.60	2.60	0.25	0.15	0.20	0.55	121.99	0.40	0.25	0.00	5.20	0.00	
10	2.40	2.60	0.20	0.15	0.20	0.80	117.06	0.40	0.30	0.00	5.00	0.00	
11	2.40	3.00	0.25	0.10	0.95	1.50	117.51	0.35	0.25	0.00	5.00	0.65	
12	2.40	2.80	0.25	0.10	1.40	4.60	115.72	1.40	0.25	0.00	4.00	1.10	
13	2.40	2.80	0.55	0.10	1.50	5.00	110.79	2.80	0.15	0.00	3.80	1.40	
14	2.60	6.25	0.80	0.10	1.50	6.00	109.45	3.60	0.15	0.00	3.20	1.40	
15	2.40	6.50	0.75	0.10	1.40	8.25	104.07	4.80	0.15	2.00	3.40	1.50	
16	2.40	1.40	0.35	0.00	1.40	4.80	96.00	5.80	0.15	1.20	1.60	1.10	
17	2.40	0.75	0.35	0.05	1.80	3.20	76.30	6.25	0.15	0.55	0.45	0.65	
18	2.60	0.55	0.25	0.15	2.40	1.10	27.81	3.00	0.15	0.40	0.10	0.85	
19	2.40	11.20	0.25	0.15	2.40	0.65	6.50	1.70	0.15	0.85	0.05	0.95	
20	2.40	13.25	2.40	0.20	1.60	0.85	19.79	0.50	0.15	0.50	0.00	0.90	
21	2.40	19.05	13.25	0.15	0.85	1.00	46.88	0.35	0.20	0.50	0.00	1.20	
22	2.40	1.80	6.25	0.20	1.50	1.00	12.90	0.40	0.15	0.40	0.00	3.80	
23	2.40	0.60	0.95	0.20	5.80	0.90	10.60	0.40	0.00	0.30	0.20	4.00	
24	2.60	0.50	0.70	0.25	26.09	0.80	16.80	0.30	0.00	0.30	0.30	4.00	
25	2.60	0.40	0.90	0.25	55.70	0.90	24.37	5.40	0.00	0.25	1.60	5.00	
26	2.40	0.35	0.80	0.25	63.90	1.30	17.25	3.20	0.00	3.40	0.20	5.40	
27	2.60	0.35	0.95	0.25	54.96	2.80	5.80	0.40	0.00	4.00	0.15	4.20	
28	2.60	0.30	1.40	0.25	28.10	7.00	4.00	0.40	0.00	0.30	0.70	4.80	
29	2.60	0.30	1.70	0.25	3.60	8.00	1.90	0.40	0.00	0.15	1.80	5.40	
30	2.60	0.30	1.80	0.25	0.60	5.40	1.30	0.25	0.00	0.10		5.20	
31		0.25		0.20	0.50		0.90		0.00	0.00		3.80	
TOTAL	87.30	99.70	38.70	10.45	259.75	71.30	2028.87	45.95	5.10	15.20	68.35	76.00	2806.67 CMSDAY
MEAN	2.91	3.22	1.29	0.34	8.38	2.38	65.45	1.53	0.16	0.49	2.36	2.45	7.67 CMS
MAX	4.60	19.05	13.25	2.20	63.90	8.25	147.14	6.25	0.40	4.00	5.40	10.00	147.14 CMS
MIN	1.90	0.25	0.20	0.00	0.10	0.45	0.90	0.25	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	7.543	8.614	3.344	0.903	22.442	6.160	175.294	3.970	0.441	1.313	5.905	6.566	242.496 MCM

MOMENTARY PEAK 149.44 CMS, AT 157.29 M (MSL), AT 21.00 HOURS, ON OCT 5, 1987

RUNOFF YIELD 0.58 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 11.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

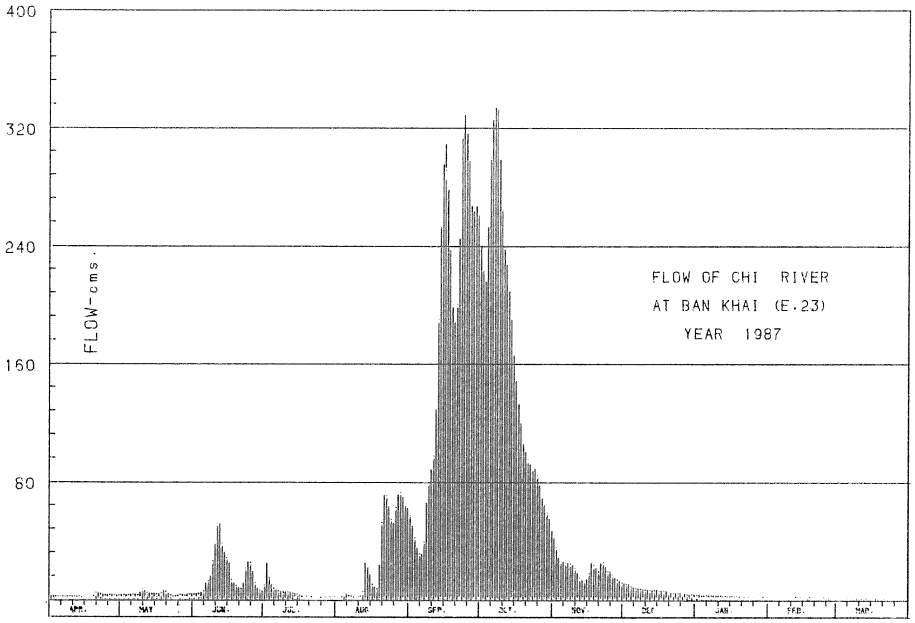
CHI RIVER AT BAN KHAI, CHAIYAPHUM (E.23)

LOCATION	LAT. 15°40'49" N., LONG. 102°00'47" E., ON LEFT BANK AT THE BRIDGE ON HIGHWAY, AMPHOE MUANG, CHAIYAPHUM.
DRAINAGE AREA	6,835 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+174.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+181.926 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954-1956, 1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968-1974,1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968-1974,1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 118 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	177.39	177.42	177.44	177.63	177.23	179.72	182.24	178.95	177.65	177.43	177.35	177.27	
2	177.39	177.42	177.44	177.80	177.15	179.36	182.16	178.60	177.64	177.43	177.35	177.28	
3	177.37	177.42	177.46	177.71	177.35	178.97	182.14	178.11	177.64	177.41	177.35	177.28	
4	177.37	177.42	177.47	177.63	177.47	178.56	182.28	177.94	177.61	177.41	177.34	177.32	
5	177.36	177.43	177.51	177.57	177.44	178.29	182.45	177.90	177.59	177.41	177.33	177.30	
6	177.36	177.43	177.65	177.53	177.41	178.27	182.53	177.86	177.58	177.41	177.34	177.31	
7	177.36	177.43	177.68	177.51	177.39	178.82	182.56	177.82	177.57	177.41	177.35	177.31	
8	177.37	177.42	177.72	177.49	177.35	180.14	182.55	177.80	177.56	177.41	177.34	177.29	
9	177.38	177.47	177.97	177.48	177.31	180.69	182.45	177.79	177.54	177.41	177.33	177.27	
10	177.37	177.55	178.71	177.48	177.37	180.98	182.32	177.77	177.54	177.41	177.36	177.25	
11	177.36	177.51	179.45	177.49	177.40	181.28	182.23	177.74	177.53	177.41	177.37	177.24	
12	177.36	177.47	179.43	177.48	177.50	181.66	182.18	177.71	177.53	177.40	177.36	177.26	
13	177.36	177.45	178.77	177.46	177.80	182.01	182.11	177.69	177.53	177.39	177.37	177.24	
14	177.33	177.45	178.36	177.45	177.79	182.28	182.01	177.69	177.53	177.39	177.36	177.22	
15	177.30	177.45	178.11	177.44	177.73	182.44	181.90	177.70	177.53	177.39	177.35	177.22	
16	177.29	177.44	177.81	177.42	177.64	182.48	181.79	177.74	177.52	177.39	177.33	177.23	
17	177.29	177.44	177.70	177.39	177.59	182.38	181.70	177.81	177.51	177.39	177.33	177.24	
18	177.35	177.47	177.65	177.38	177.57	182.22	181.59	177.79	177.50	177.39	177.35	177.23	
19	177.40	177.51	177.62	177.38	177.79	182.06	181.47	177.77	177.50	177.37	177.35	177.23	
20	177.47	177.50	177.58	177.37	179.49	182.00	181.34	177.75	177.48	177.36	177.34	177.23	
21	177.47	177.45	177.56	177.35	180.34	182.06	181.21	177.80	177.47	177.35	177.33	177.21	
22	177.45	177.42	177.65	177.34	180.34	182.25	181.10	177.86	177.46	177.35	177.33	177.18	
23	177.43	177.39	177.77	177.32	180.02	182.50	181.03	177.78	177.46	177.36	177.34	177.15	
24	177.42	177.38	177.89	177.33	179.60	182.54	181.00	177.75	177.46	177.35	177.34	177.19	
25	177.42	177.41	177.86	177.33	179.46	182.51	180.85	177.75	177.46	177.34	177.32	177.23	
26	177.43	177.43	177.75	177.35	180.00	182.44	180.61	177.73	177.46	177.34	177.30	177.21	
27	177.42	177.42	177.66	177.34	180.36	182.34	180.36	177.71	177.44	177.35	177.28	177.18	
28	177.42	177.41	177.57	177.35	180.43	182.32	180.07	177.70	177.44	177.36	177.28	177.16	
29	177.41	177.43	177.53	177.36	180.29	182.34	179.82	177.68	177.43	177.36	177.27	177.16	
30	177.42	177.44	177.50	177.36	180.12	182.31	179.60	177.66	177.43	177.36		177.17	
31		177.44		177.36	179.97		179.30		177.43	177.36		177.18	
MEAN	177.38	177.44	177.88	177.45	178.47	181.27	181.51	177.85	177.52	177.38	177.34	177.23	
MAX	177.47	177.55	179.45	177.80	180.43	182.54	182.56	178.95	177.65	177.43	177.37	177.32	182.56
MIN	177.29	177.38	177.44	177.32	177.15	178.27	179.30	177.66	177.43	177.34	177.27	177.15	177.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 182.59 M (MSL), AT 24.00 HOURS, ON OCT 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 174.00 M (MSL), RIVER BED 174.66 M (MSL)
LEFT BANK ELEVATION 185.26 M (MSL)
RIGHT BANK ELEVATION 185.04 M (MSL), DRAINAGE AREA 6835 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.85	3.60	4.20	10.50	1.15	57.40	242.40	42.00	11.50	3.90	2.25	1.35	
2	2.85	3.60	4.20	25.00	0.75	50.20	222.80	36.00	11.00	3.90	2.25	1.40	
3	2.55	3.60	4.80	15.10	2.25	42.40	218.20	28.65	11.00	3.30	2.25	1.40	
4	2.55	3.60	5.10	10.50	5.10	35.40	252.80	26.40	9.50	3.30	2.10	1.80	
5	2.40	3.90	6.30	8.10	4.20	31.35	300.50	26.00	8.70	3.30	1.95	1.50	
6	2.40	3.90	11.50	6.90	3.30	31.05	325.50	25.60	8.40	3.30	2.10	1.65	
7	2.40	3.90	13.00	6.30	2.85	39.40	336.00	25.20	8.10	3.30	2.25	1.65	
8	2.55	3.60	16.20	5.70	2.25	66.00	332.50	25.00	7.80	3.30	2.10	1.45	
9	2.70	5.10	26.70	5.40	1.65	79.75	300.50	23.90	7.20	3.30	1.95	1.35	
10	2.55	7.50	37.65	5.40	2.55	88.40	263.60	21.70	7.20	3.30	2.40	1.25	
11	2.40	6.30	52.00	5.70	3.00	97.80	239.80	18.40	6.90	3.30	2.55	1.20	
12	2.40	5.10	51.60	5.40	6.00	129.40	227.40	15.10	6.90	3.00	2.40	1.30	
13	2.40	4.50	38.55	4.80	25.00	190.10	211.30	13.50	6.90	2.85	2.55	1.20	
14	1.95	4.50	32.40	4.50	23.90	252.80	190.10	13.50	6.90	2.85	2.40	1.10	
15	1.50	4.50	28.65	4.20	17.30	297.60	168.00	14.00	6.90	2.85	2.25	1.10	
16	1.45	4.20	25.10	3.60	11.00	309.20	148.50	18.40	6.60	2.85	1.95	1.15	
17	1.45	4.20	14.00	2.85	8.70	280.40	135.00	25.10	6.30	2.85	1.95	1.20	
18	2.25	5.10	11.50	2.70	8.10	237.20	119.91	23.90	6.00	2.85	2.25	1.15	
19	3.00	6.30	10.00	2.70	23.90	200.60	108.12	21.70	6.00	2.55	2.25	1.15	
20	5.10	6.00	8.40	2.55	52.80	188.00	100.50	19.50	5.40	2.40	2.10	1.15	
21	5.10	4.50	7.80	2.25	71.00	200.60	95.35	25.00	5.10	2.25	1.95	1.05	
22	4.50	3.60	11.50	2.10	71.00	245.00	92.00	25.60	4.80	2.25	1.95	0.90	
23	3.90	2.85	21.70	1.80	63.40	315.00	89.90	22.80	4.80	2.40	2.10	0.75	
24	3.60	2.70	25.90	1.95	55.00	329.00	89.00	19.50	4.80	2.25	2.10	0.95	
25	3.60	3.30	25.60	1.95	52.20	318.50	84.50	19.50	4.80	2.10	1.80	1.15	
26	3.90	3.90	19.50	2.25	63.00	297.60	77.75	17.30	4.80	2.10	1.50	1.05	
27	3.60	3.60	12.00	2.10	71.50	269.20	71.50	15.10	4.20	2.25	1.40	0.90	
28	3.60	3.30	8.10	2.25	73.25	263.60	64.40	14.00	4.20	2.40	1.40	0.80	
29	3.30	3.90	6.90	2.40	69.75	269.20	59.40	13.00	3.90	2.40	1.35	0.80	
30	3.60	4.20	6.00	2.40	65.50	260.80	55.00	12.00	3.90	2.40		0.85	
31		4.20		2.40	62.40		49.00		3.90	2.40		0.90	
TOTAL	88.40	133.05	546.85	161.75	923.75	5472.95	5271.23	647.35	204.40	87.75	59.80	36.60	13633.88 CMSDAY
MEAN	2.95	4.29	18.23	5.22	29.80	182.43	170.04	21.58	6.59	2.83	2.06	1.18	37.25 CMS
MAX	5.10	7.50	52.00	25.00	73.25	329.00	336.00	42.00	11.50	3.90	2.55	1.80	336.00 CMS
MIN	1.45	2.70	4.20	1.80	0.75	31.05	49.00	12.00	3.90	2.10	1.35	0.75	0.75 CMS
RUNOFF	7.638	11.496	47.248	13.975	79.812	472.863	455.434	55.931	17.660	7.582	5.167	3.162	1177.967 MCM

MOMENTARY PEAK 346.50 CMS, AT 182.59 M (MSL), AT 24.00 HOURS, ON OCT 7, 1987

RUNOFF YIELD 5.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 50.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

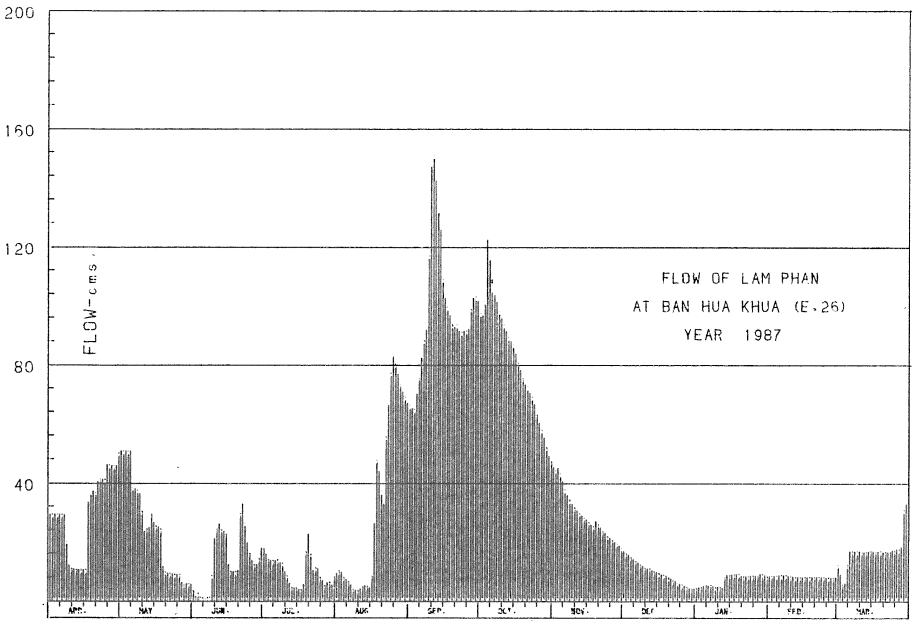
LAM PHAN AT BAN HUA KHUA, KALASIN (E.26)

LOCATION	LAT. 16°-24'-36" N., LONG. 103°-28'-15" E., ON RIGHT BANK AT THE BRIDGE ON THE ROAD, AMPHOE YANG TALAT, KALASIN.
DRAINAGE AREA	6,565 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+134.633 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK UPSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+145.395 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	1971-1976, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1976, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY LAM PAO DAM. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	135.73	136.53	134.60	135.26	134.90	137.04	137.93	136.33	135.23	134.65	134.85	135.04	
2	135.73	136.53	134.50	135.19	134.94	137.01	137.91	136.29	135.20	134.66	134.86	134.88	
3	135.73	136.53	134.56	135.11	134.92	137.00	138.05	136.32	135.18	134.67	134.86	134.71	
4	135.73	136.53	134.49	135.10	134.83	137.15	138.60	136.25	135.15	134.68	134.86	134.73	
5	135.73	136.53	134.43	135.10	134.80	137.30	138.45	136.15	135.12	134.70	134.87	135.04	
6	135.73	136.07	134.42	135.10	134.76	137.50	138.25	136.05	135.09	134.69	134.87	135.23	
7	135.72	136.06	134.45	135.11	134.70	137.67	138.14	135.98	135.07	134.71	134.87	135.23	
8	135.36	136.04	134.46	135.07	134.63	137.77	138.04	135.92	135.04	134.68	134.87	135.23	
9	135.03	136.00	134.86	135.06	134.61	138.46	137.95	135.87	135.02	134.67	134.86	135.23	
10	134.98	135.77	135.40	134.93	134.61	139.24	137.88	135.82	134.99	134.67	134.85	135.23	
11	134.97	135.50	135.53	134.86	134.63	139.34	137.82	135.78	134.98	134.67	134.85	135.22	
12	134.96	135.53	135.60	134.73	134.67	139.12	137.76	135.74	134.98	134.65	134.84	135.22	
13	134.96	135.55	135.52	134.66	134.69	138.87	137.70	135.71	134.95	134.84	134.84	135.22	
14	134.96	135.73	135.50	134.65	134.68	138.69	137.66	135.68	134.93	134.87	134.84	135.23	
15	134.96	135.62	135.46	134.65	134.65	138.25	137.63	135.66	134.92	134.87	134.84	135.23	
16	134.96	135.57	135.04	134.62	134.85	138.08	137.54	135.62	134.90	134.88	134.84	135.23	
17	135.89	135.56	134.93	134.62	135.61	137.99	137.45	135.59	134.88	134.89	134.84	135.22	
18	136.03	135.53	134.93	134.71	136.42	137.91	137.38	135.57	134.87	134.89	134.84	135.23	
19	136.03	135.01	134.93	135.22	136.28	137.82	137.30	135.63	134.86	134.89	134.84	135.23	
20	136.01	134.92	134.95	135.46	136.03	137.80	137.24	135.60	134.83	134.86	134.84	135.22	
21	136.15	134.90	135.74	135.19	135.87	137.82	137.22	135.55	134.81	134.85	134.84	135.22	
22	136.19	134.90	135.87	134.95	136.69	137.76	137.16	135.50	134.78	134.85	134.84	135.22	
23	136.18	134.89	135.62	134.99	137.04	137.75	137.12	135.48	134.77	134.85	134.84	135.22	
24	136.18	134.88	135.34	134.98	137.35	137.76	137.05	135.43	134.74	134.86	134.84	135.24	
25	136.36	134.88	135.20	134.83	137.51	137.76	136.94	135.41	134.72	134.86	134.83	135.24	
26	136.36	134.88	135.10	134.78	137.44	137.78	136.85	135.38	134.71	134.86	134.83	135.26	
27	136.35	134.74	135.04	134.69	137.34	137.97	136.77	135.35	134.69	134.86	134.83	135.26	
28	136.35	134.70	135.04	134.74	137.24	138.08	136.68	135.33	134.67	134.89	134.83	135.29	
29	136.35	134.72	135.13	134.75	137.17	138.09	136.57	135.30	134.64	134.89	134.83	135.79	
30	136.51	134.72	135.27	134.70	137.12	138.05	136.47	135.27	134.64	134.87		135.87	
31		134.71		134.84	137.06		136.40		134.64	134.85		135.87	
MEAN	135.74	135.48	135.06	134.92	135.74	137.96	137.48	135.72	134.90	134.79	134.85	135.23	
MAX	136.51	136.53	135.87	135.46	137.51	139.34	138.60	136.33	135.23	134.89	134.87	135.87	139.34
MIN	134.96	134.70	134.42	134.62	134.61	137.00	136.40	135.27	134.64	134.65	134.83	134.71	134.42

ANNUAL MAX MOMENTARY GAGE HEIGHT 139.36 M (MSL), AT 1.00 HOURS, ON SEP 11, 1987
ZERO GAGE AT BOTTOM ELEVATION 134.63 M (MSL), RIVER BED 133.78 M (MSL)
LEFT BANK ELEVATION 140.52 M (MSL)
RIGHT BANK ELEVATION 140.83 M (MSL), DRAINAGE AREA 6565 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	29.45	50.90	3.50	17.70	9.50	66.40	97.55	45.41	16.95	4.50	8.50	12.42	
2	29.45	50.90	1.50	15.96	10.30	65.35	96.85	44.33	16.20	4.70	8.70	9.10	
3	29.45	50.90	2.70	14.04	9.90	65.00	101.75	45.14	15.72	4.90	8.70	5.70	
4	29.45	50.90	1.45	13.80	8.10	70.25	122.40	43.25	15.00	5.10	8.70	6.10	
5	29.45	50.90	1.15	13.80	7.50	75.50	116.70	40.55	14.28	5.50	8.90	12.42	
6	29.45	38.39	1.10	13.80	6.70	82.50	109.10	37.85	13.57	5.30	8.90	16.95	
7	29.20	38.12	1.25	14.04	5.50	88.45	104.98	35.96	13.11	5.70	8.90	16.95	
8	20.20	37.58	1.30	13.11	4.10	91.95	101.40	34.34	12.42	5.10	8.90	16.95	
9	12.19	36.50	8.70	12.88	3.70	117.08	98.25	33.02	11.96	4.90	8.70	16.95	
10	11.10	30.45	21.20	10.10	3.70	147.20	95.80	31.72	11.30	4.90	8.50	16.95	
11	10.90	23.70	24.45	8.70	4.10	151.20	93.70	30.70	11.10	4.90	8.50	16.70	
12	10.70	24.45	26.20	6.10	4.90	142.48	91.60	29.70	11.10	4.50	8.30	16.70	
13	10.70	24.95	24.20	4.70	5.30	132.73	89.50	28.95	10.50	8.30	8.30	16.70	
14	10.70	29.45	23.70	4.50	5.10	125.82	88.10	28.20	10.10	8.90	8.30	16.95	
15	10.70	26.70	22.70	4.50	4.50	109.10	87.05	27.70	9.90	8.90	8.30	16.95	
16	10.70	25.45	12.42	3.90	8.50	102.80	83.90	26.70	9.50	9.10	8.30	16.95	
17	33.54	25.20	10.10	3.90	26.45	99.65	80.75	25.95	9.10	9.30	8.30	16.70	
18	37.31	24.45	10.10	5.70	47.84	96.85	78.30	25.45	8.90	9.30	8.30	16.95	
19	37.31	11.73	10.10	16.70	44.06	93.70	75.50	26.95	8.70	9.30	8.30	16.95	
20	36.77	9.90	10.50	22.70	37.31	93.00	73.40	26.20	8.10	8.70	8.30	16.70	
21	40.55	9.50	29.70	15.96	33.02	93.70	72.70	24.95	7.70	8.50	8.30	16.70	
22	41.63	9.50	33.02	10.50	55.70	91.60	70.60	23.70	7.10	8.50	8.30	16.70	
23	41.36	9.30	26.70	11.30	66.40	91.25	69.20	23.20	6.90	8.50	8.30	16.70	
24	41.36	9.10	19.70	11.10	77.25	91.60	66.75	21.95	6.30	8.70	8.30	17.20	
25	46.22	9.10	16.20	8.10	82.85	91.60	63.20	21.45	5.90	8.70	8.10	17.20	
26	46.22	9.10	13.80	7.10	80.40	92.30	60.50	20.70	5.70	8.70	8.10	17.70	
27	45.95	6.30	12.42	5.30	76.90	98.95	58.10	19.95	5.30	8.70	8.10	17.70	
28	45.95	5.50	12.42	6.30	73.40	102.80	55.40	19.45	4.90	9.30	8.10	18.45	
29	45.95	5.90	14.52	6.50	70.95	103.15	52.10	18.70	4.30	9.30	8.10	30.95	
30	50.30	5.90	17.95	5.50	69.20	101.75	49.19	17.95	4.30	8.90		33.02	
31		5.70		8.30	67.10		47.30		4.30	8.50		33.02	
TOTAL	904.21	746.42	414.75	316.59	1010.23	2975.71	2551.62	880.07	300.21	228.10	244.30	534.08	11106.29 CMSDAY
MEAN	30.14	24.08	13.83	10.21	32.59	99.19	82.31	29.34	9.68	7.36	8.42	17.23	30.35 CMS
MAX	50.30	50.90	33.02	22.70	82.85	151.20	122.40	45.41	16.95	9.30	8.90	33.02	151.20 CMS
MIN	10.70	5.50	1.10	3.90	3.70	65.00	47.30	17.95	4.30	4.50	8.10	5.70	1.10 CMS
RUNOFF	78.124	64.491	35.834	27.353	87.284	257.101	220.460	76.038	25.938	19.708	21.108	46.145	959.584 MCM

MOMENTARY PEAK 152.00 CMS, AT 139.36 M (MSL), AT 1.00 HOURS, ON SEP 11, 1987

RUNOFF YIELD 4.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

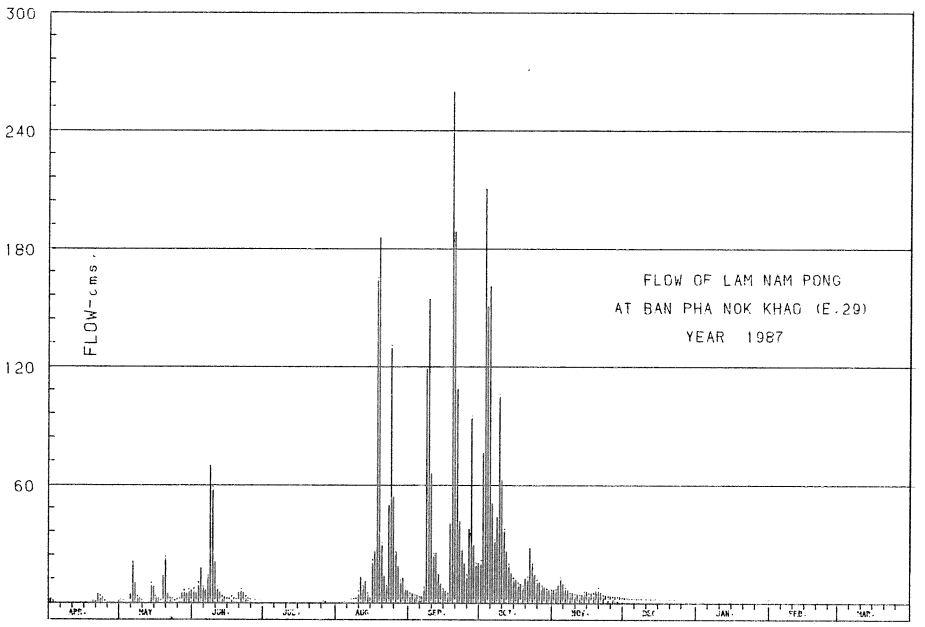
LAM NAM PHONG AT BAN PHA NOK KHAO, LOEI (E.29)

LOCATION	LAT. 16°-50'-45" N., LONG. 101°-56'-54" E., ON RIGHT BANK IN THE VICINITY OF THE FORESTRY OFFICE ABOUT 400 METERS FROM THE BRIDGE ON HIGHWAY. BAN PHA NOK KHAO, AMPHOE PHU KRADUNG, LOEI.
DRAINAGE AREA	945 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+225.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE AUTOMATIC GAGE BUILDING.
ELEVATION	+236.945 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 188 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	226.00	225.96	226.61	225.87	225.67	226.40	227.68	226.54	226.08	225.87	225.92	225.76	
2	225.85	225.89	226.36	225.82	225.67	226.34	230.51	226.58	226.05	225.87	225.90	225.76	
3	225.78	225.79	226.87	225.79	225.67	226.29	234.24	226.74	226.03	225.86	225.87	225.76	
4	225.73	225.85	227.41	225.78	225.73	226.23	232.88	227.05	226.02	225.86	225.85	225.76	
5	225.70	226.29	226.70	225.77	225.73	226.19	233.21	226.79	226.01	225.85	225.84	225.76	
6	225.68	227.64	226.51	225.75	225.99	226.17	229.43	226.64	226.01	225.85	225.83	225.75	
7	225.67	226.83	227.14	225.75	225.99	226.67	228.39	226.52	226.00	225.85	225.80	225.74	
8	225.66	226.21	230.26	225.75	226.02	232.02	229.08	226.40	226.00	225.84	225.79	225.73	
9	225.66	226.03	229.84	225.74	226.08	233.03	231.63	226.39	225.99	225.83	225.78	225.73	
10	225.65	225.92	227.63	225.75	226.51	230.11	229.98	226.34	225.99	225.83	225.77	225.73	
11	225.64	225.85	226.71	225.74	227.06	227.93	228.75	226.31	225.98	225.81	225.77	225.74	
12	225.63	225.88	226.41	225.73	226.73	227.94	227.98	226.29	225.97	225.82	225.77	225.74	
13	225.63	225.97	226.24	225.73	226.89	227.18	227.57	226.28	225.98	225.82	225.78	225.75	
14	225.63	226.84	226.14	225.73	226.39	226.79	227.21	226.47	225.98	225.82	225.77	225.75	
15	225.62	226.68	226.07	225.71	226.09	226.61	227.04	226.46	225.97	225.82	225.77	225.74	
16	225.62	226.22	226.05	225.70	227.72	226.48	226.96	226.38	225.96	225.81	225.78	225.73	
17	225.61	226.04	226.19	225.69	227.98	226.39	226.85	226.36	225.96	225.81	225.79	225.72	
18	225.61	225.92	226.08	225.69	233.28	228.89	226.79	226.41	225.95	225.80	225.78	225.73	
19	225.82	227.11	226.01	225.69	233.71	235.09	226.72	226.48	225.95	225.81	225.77	225.72	
20	225.75	227.82	226.38	225.68	228.28	233.77	227.00	226.65	225.94	225.81	225.81	225.72	
21	226.32	226.34	226.59	225.68	227.10	231.77	227.08	226.40	225.94	225.81	225.83	225.72	
22	226.26	226.10	226.40	225.68	226.73	228.96	228.11	226.29	225.93	225.81	225.81	225.72	
23	226.14	226.08	226.21	225.67	229.38	228.14	227.58	226.23	225.92	225.81	225.79	225.72	
24	225.90	225.90	226.06	225.67	232.35	227.58	227.16	226.21	225.91	225.80	225.79	225.71	
25	225.80	226.01	225.99	225.70	229.59	227.17	226.96	226.20	225.91	225.81	225.79	225.71	
26	225.74	226.08	225.94	225.81	227.98	228.74	226.86	226.18	225.90	225.80	225.77	225.71	
27	225.72	226.37	225.89	225.75	227.47	231.22	226.73	226.16	225.89	225.80	225.79	225.71	
28	225.69	226.55	225.85	225.71	226.96	228.19	226.65	226.15	225.88	225.80	225.77	225.71	
29	225.69	226.34	225.88	225.70	227.02	227.60	226.61	226.16	225.88	225.86	225.76	225.70	
30	226.03	226.58	225.91	225.69	226.67	227.60	226.53	226.10	225.88	225.95		225.69	
31		226.51		225.67	226.50		226.55		225.87	225.93		225.69	
MEAN	225.77	226.31	226.61	225.73	227.45	228.45	228.28	226.41	225.96	225.83	225.80	225.73	
MAX	226.32	227.82	230.26	225.87	233.71	235.09	234.24	227.05	226.08	225.95	225.92	225.76	235.09
MIN	225.61	225.79	225.85	225.67	225.67	226.17	226.53	226.10	225.87	225.80	225.76	225.69	225.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 235.64 M (MSL), AT 15.00 HOURS, ON SEP 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 225.00 M (MSL), RIVER BED 225.54 M (MSL)
LEFT BANK ELEVATION 237.31 M (MSL)
RIGHT BANK ELEVATION 238.23 M (MSL), DRAINAGE AREA 945 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.00	1.78	7.42	1.30	0.44	5.15	21.50	6.61	2.52	1.30	1.56	0.79	
2	1.20	1.40	4.79	1.05	0.44	4.61	76.30	7.07	2.33	1.30	1.45	0.79	
3	0.87	0.91	10.61	0.91	0.44	4.16	212.00	8.98	2.19	1.25	1.30	0.79	
4	0.67	1.20	17.64	0.87	0.67	3.65	150.56	12.95	2.13	1.25	1.20	0.79	
5	0.55	4.16	8.50	0.83	0.67	3.33	162.77	9.58	2.06	1.20	1.15	0.79	
6	0.48	20.90	6.26	0.75	1.95	3.17	50.60	7.78	2.06	1.20	1.10	0.75	
7	0.44	10.09	14.12	0.75	1.95	8.14	32.15	6.38	2.00	1.20	0.95	0.71	
8	0.41	3.49	69.68	0.75	2.13	118.74	43.62	5.15	2.00	1.15	0.91	0.67	
9	0.41	2.19	58.94	0.71	2.52	156.11	106.14	5.06	1.95	1.10	0.87	0.67	
10	0.37	1.56	20.75	0.75	6.26	65.71	62.28	4.61	1.95	1.10	0.83	0.67	
11	0.34	1.20	8.62	0.71	13.08	25.25	37.75	4.34	1.89	1.00	0.83	0.71	
12	0.31	1.35	5.25	0.67	8.86	25.40	26.00	4.16	1.84	1.05	0.83	0.71	
13	0.31	1.84	3.74	0.67	10.87	14.64	19.88	4.08	1.89	1.05	0.87	0.75	
14	0.31	10.22	2.95	0.67	5.06	9.58	15.03	5.85	1.89	1.05	0.83	0.75	
15	0.27	8.26	2.46	0.59	2.58	7.42	12.82	5.75	1.84	1.05	0.83	0.71	
16	0.27	3.57	2.33	0.55	22.10	5.95	11.78	4.97	1.78	1.00	0.87	0.67	
17	0.23	2.26	3.33	0.52	26.00	5.06	10.35	4.79	1.78	1.00	0.91	0.63	
18	0.23	1.56	2.52	0.52	165.36	40.13	9.58	5.25	1.73	0.95	0.87	0.67	
19	1.05	13.73	2.06	0.52	185.50	261.30	8.74	5.95	1.73	1.00	0.83	0.63	
20	0.75	23.60	4.97	0.48	30.50	188.50	12.30	7.90	1.67	1.00	1.00	0.63	
21	4.43	4.61	7.18	0.48	13.60	110.27	13.34	5.15	1.67	1.00	1.10	0.63	
22	3.91	2.65	5.15	0.48	8.86	41.38	27.95	4.16	1.61	1.00	1.00	0.63	
23	2.95	2.52	3.49	0.44	49.60	28.40	20.02	3.65	1.56	1.00	0.91	0.63	
24	1.45	1.45	2.39	0.44	130.95	20.02	14.38	3.49	1.51	0.95	0.91	0.59	
25	0.95	2.06	1.95	0.55	53.80	14.51	11.78	3.40	1.51	1.00	0.91	0.59	
26	0.71	2.52	1.67	1.00	26.00	37.58	10.48	3.25	1.45	0.95	0.83	0.59	
27	0.63	4.88	1.40	0.75	18.48	95.09	8.86	3.10	1.40	0.95	0.91	0.59	
28	0.52	6.73	1.20	0.59	11.78	29.15	7.90	3.02	1.35	0.95	0.83	0.59	
29	0.52	4.61	1.35	0.55	12.56	20.30	7.42	3.10	1.35	1.25	0.79	0.55	
30	2.19	7.07	1.51	0.52	8.14	20.30	6.49	2.65	1.35	1.73		0.52	
31		6.26		0.44	6.15		6.73		1.30	1.61		0.52	
TOTAL	29.73	160.63	284.23	20.81	827.30	1373.00	1217.50	162.18	55.29	34.59	28.18	20.71	4214.15 CMSDAY
MEAN	0.99	5.18	9.47	0.67	26.69	45.77	39.27	5.41	1.78	1.12	0.97	0.67	11.51 CMS
MAX	4.43	23.60	69.68	1.30	185.50	261.30	212.00	12.95	2.52	1.73	1.56	0.79	261.30 CMS
MIN	0.23	0.91	1.20	0.44	0.44	3.17	6.49	2.65	1.30	0.95	0.79	0.52	0.23 CMS
RUNOFF	2.569	13.878	24.557	1.798	71.479	118.627	105.192	14.012	4.777	2.989	2.435	1.789	364.103 MCM

MOMENTARY PEAK 303.60 CMS, AT 235.64 M (MSL), AT 15.00 HOURS, ON SEP 19, 1987
RUNOFF YIELD 12.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 321.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +198.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE AUTOMATIC GAGE BUILDING.

ELEVATION — +210.804 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 — 1968 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1968 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

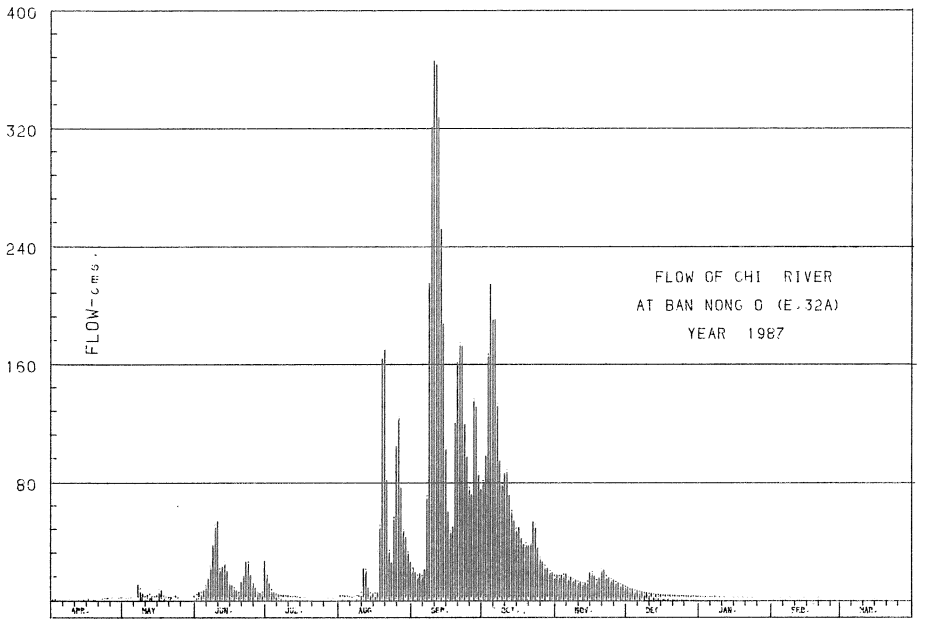
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	198.65	198.78	199.03	199.67	198.96	199.91	202.15	199.67	199.25	198.88	198.77	198.73	
2	198.64	198.73	199.08	199.38	198.96	199.76	202.70	199.65	199.20	198.86	198.77	198.71	
3	198.62	198.78	199.10	199.19	198.93	199.67	204.97	199.66	199.19	198.86	198.77	198.69	
4	198.61	198.79	199.14	199.08	198.93	199.72	206.21	199.70	199.16	198.86	198.77	198.69	
5	198.61	198.74	199.33	199.04	198.89	199.66	205.68	199.70	199.14	198.86	198.77	198.69	
6	198.60	198.81	199.54	199.00	198.83	199.85	205.64	199.60	199.12	198.87	198.81	198.68	
7	198.60	199.34	199.99	198.99	198.84	201.81	203.89	199.60	199.10	198.87	198.81	198.67	
8	198.60	199.22	200.57	198.98	198.95	206.22	202.59	199.55	199.08	198.86	198.79	198.67	
9	198.59	199.03	201.14	198.95	198.94	208.17	202.09	199.50	199.06	198.85	198.79	198.66	
10	198.59	198.92	201.22	198.95	199.10	208.83	202.30	199.46	199.05	198.84	198.80	198.65	
11	198.58	198.98	199.89	198.92	199.88	208.83	202.39	199.43	199.04	198.82	198.77	198.65	
12	198.58	199.04	199.94	198.90	199.87	208.24	201.81	199.41	199.03	198.81	198.76	198.65	
13	198.58	198.88	200.15	198.91	199.23	206.98	201.48	199.40	199.01	198.81	198.78	198.65	
14	198.58	198.89	199.79	198.87	199.07	205.56	201.23	199.46	199.01	198.81	198.78	198.64	
15	198.58	198.96	199.44	198.82	199.03	202.91	201.05	199.74	198.99	198.81	198.76	198.66	
16	198.79	199.19	199.31	198.81	199.07	201.44	201.06	199.79	198.98	198.81	198.75	198.65	
17	198.66	199.15	199.26	198.79	199.06	200.97	200.84	199.63	198.98	198.81	198.76	198.63	
18	198.83	198.95	199.14	198.78	201.13	201.07	200.60	199.51	198.97	198.81	198.74	198.62	
19	198.68	198.86	199.10	198.77	204.88	203.50	200.64	199.56	198.97	198.81	198.80	198.62	
20	198.64	198.82	199.43	198.75	205.12	204.81	200.56	199.88	198.95	198.81	198.80	198.61	
21	198.65	198.81	199.72	198.74	202.15	205.20	200.68	199.83	198.94	198.81	198.76	198.62	
22	198.68	198.88	200.11	198.73	200.46	205.12	201.21	199.66	198.93	198.81	198.74	198.61	
23	198.74	198.93	200.12	198.72	200.08	203.49	201.15	199.57	198.93	198.79	198.74	198.61	
24	198.75	198.83	199.66	198.71	201.32	202.67	200.50	199.55	198.93	198.77	198.73	198.61	
25	198.76	198.77	199.39	198.70	202.91	202.00	200.26	199.50	198.92	198.76	198.73	198.61	
26	198.77	198.76	199.23	198.74	203.60	201.82	200.11	199.45	198.92	198.76	198.73	198.61	
27	198.75	198.73	199.11	198.76	201.97	204.00	200.00	199.40	198.91	198.77	198.72	198.61	
28	198.68	198.74	199.05	198.77	201.02	203.80	199.90	199.37	198.90	198.79	198.72	198.61	
29	198.76	198.75	199.10	198.75	200.79	202.34	199.82	199.33	198.90	198.78	198.72	198.59	
30	198.81	198.77	200.14	198.71	200.41	201.94	199.75	199.29	198.90	198.78		198.59	
31		198.94		198.76	200.10		199.67		198.89	198.78		198.59	
MEAN	198.67	198.90	199.64	198.89	200.34	203.34	201.71	199.56	199.01	198.82	198.76	198.64	
MAX	198.83	199.34	201.22	199.67	205.12	208.83	206.21	199.88	199.25	198.88	198.81	198.73	208.83
MIN	198.58	198.73	199.03	198.70	198.83	199.66	199.67	199.29	198.89	198.76	198.72	198.59	198.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 208.87 M (MSL), AT 24.00 HOURS, ON SEP 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 198.00 M (MSL), RIVER BED 197.66 M (MSL)
LEFT BANK ELEVATION 210.68 M (MSL)
RIGHT BANK ELEVATION 210.80 M (MSL), DRAINAGE AREA 2906 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.05	2.04	4.60	17.40	3.60	22.20	81.50	17.40	9.00	2.84	1.96	1.64	
2	0.98	1.64	5.60	11.60	3.60	19.20	98.00	17.00	8.00	2.68	1.96	1.48	
3	0.84	2.04	6.00	7.80	3.30	17.40	166.95	17.20	7.80	2.68	1.96	1.33	
4	0.77	2.12	6.80	5.60	3.30	18.40	214.50	18.00	7.20	2.68	1.96	1.33	
5	0.77	1.72	10.60	4.80	2.92	17.20	192.20	18.00	6.80	2.68	1.96	1.33	
6	0.70	2.28	14.80	4.00	2.44	21.00	190.60	16.00	6.40	2.76	2.28	1.26	
7	0.70	10.80	23.80	3.90	2.52	71.30	133.70	16.00	6.00	2.76	2.28	1.19	
8	0.70	8.40	37.25	3.80	3.50	215.00	94.70	15.00	5.60	2.68	2.12	1.19	
9	0.63	4.60	51.50	3.50	3.40	323.05	79.70	14.00	5.20	2.60	2.12	1.12	
10	0.63	3.20	53.60	3.50	6.00	365.95	86.00	13.20	5.00	2.52	2.20	1.05	
11	0.56	3.80	21.80	3.20	21.60	365.95	88.70	12.60	4.80	2.36	1.96	1.05	
12	0.56	4.80	22.80	3.00	21.40	327.60	71.30	12.20	4.60	2.28	1.88	1.05	
13	0.56	2.84	27.00	3.10	8.60	253.90	61.40	12.00	4.20	2.28	2.04	1.05	
14	0.56	2.92	19.80	2.76	5.40	187.60	53.90	13.20	4.20	2.28	2.04	0.98	
15	0.56	3.60	12.80	2.36	4.60	104.30	49.25	18.80	3.90	2.28	1.88	1.12	
16	2.12	7.80	10.20	2.28	5.40	60.20	49.50	19.80	3.80	2.28	1.80	1.05	
17	1.12	7.00	9.20	2.12	5.20	47.25	44.00	16.60	3.80	2.28	1.88	0.91	
18	2.44	3.50	6.80	2.04	51.25	49.75	38.00	14.20	3.70	2.28	1.72	0.84	
19	1.26	2.68	6.00	1.96	163.80	122.00	39.00	15.20	3.70	2.28	2.20	0.84	
20	0.98	2.36	12.60	1.80	172.20	161.35	37.00	21.60	3.50	2.28	2.20	0.77	
21	1.05	2.28	18.40	1.72	81.50	175.00	40.00	20.60	3.40	2.28	1.88	0.84	
22	1.26	2.84	26.20	1.64	34.50	172.20	53.30	17.20	3.30	2.28	1.72	0.77	
23	1.72	3.30	26.40	1.56	25.60	121.70	51.75	15.40	3.30	2.12	1.72	0.77	
24	1.80	2.44	17.20	1.48	56.60	97.10	35.50	15.00	3.30	1.96	1.64	0.77	
25	1.88	1.96	11.80	1.40	104.30	77.00	29.50	14.00	3.20	1.88	1.64	0.77	
26	1.96	1.88	8.60	1.72	125.00	71.60	26.20	13.00	3.20	1.88	1.64	0.77	
27	1.80	1.64	6.20	1.88	76.10	137.00	24.00	12.00	3.10	1.96	1.56	0.77	
28	1.26	1.72	5.00	1.96	48.50	131.00	22.00	11.40	3.00	2.12	1.56	0.77	
29	1.88	1.80	6.00	1.80	42.75	87.20	20.40	10.60	3.00	2.04	1.56	0.63	
30	2.28	1.96	26.80	1.48	33.25	75.20	19.00	9.80	3.00	2.04		0.63	
31		3.40		1.88	26.00		17.40		2.92	2.04		0.63	
TOTAL	35.38	105.36	516.15	109.04	1148.13	3915.60	2208.95	457.00	141.92	72.36	55.32	30.70	8795.91 CMSDAY
MEAN	1.18	3.40	17.20	3.52	37.04	130.52	71.26	15.23	4.58	2.33	1.91	0.99	24.03 CMS
MAX	2.44	10.80	53.60	17.40	172.20	365.95	214.50	21.60	9.00	2.84	2.28	1.64	365.95 CMS
MIN	0.56	1.64	4.60	1.40	2.44	17.20	17.40	9.80	2.92	1.88	1.56	0.63	0.56 CMS
RUNOFF	3.057	9.103	44.595	9.421	99.198	338.308	190.853	39.485	12.262	6.252	4.780	2.652	759.967 MCM

MOMENTARY PEAK 368.55 CMS, AT 208.87 M (MSL), AT 24.00 HOURS, ON SEP 10, 1987

RUNOFF YIELD 8.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 126.82 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

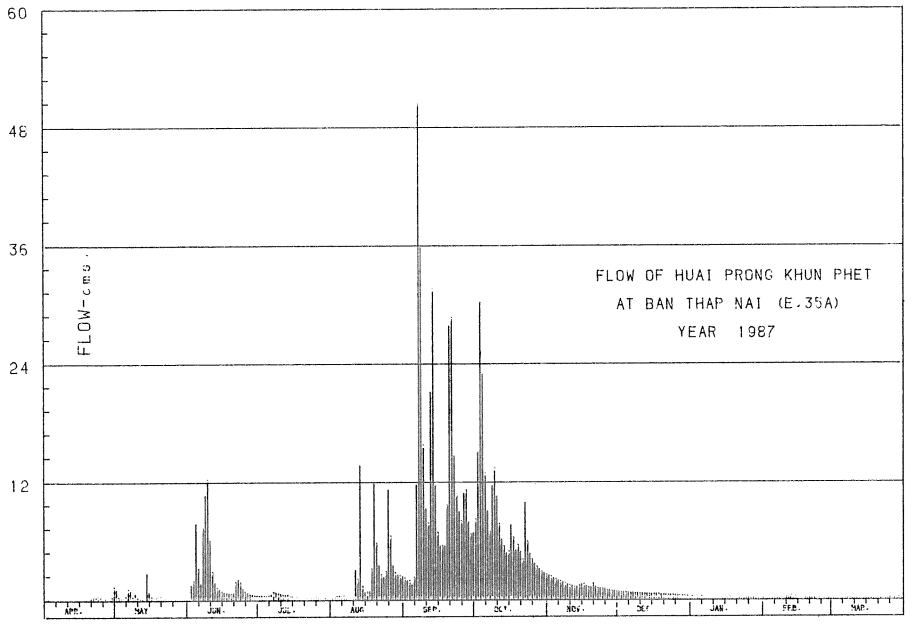
HUAI PRONG KHUN PHET AT BAN THAP NAI, CHAIYAPHUM (E.35A)

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, KING AMPHOE NONG BUA RAHEO, CHAIYAPHUM.
DRAINAGE AREA	422 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+211.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE 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 - 1981, 1985 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 - 1981, 1985 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 83 DISCHARGE MEASUREMENTS MADE DURING 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	212.08	212.55	212.08	212.27	212.19	212.85	213.78	212.90	212.45	212.22	212.14	212.10	
2	212.08	212.21	212.68	212.28	212.20	212.79	214.50	212.88	212.44	212.22	212.13	212.10	
3	212.07	212.17	212.79	212.28	212.25	212.80	215.67	212.85	212.43	212.23	212.13	212.10	
4	212.07	212.14	213.72	212.27	212.26	212.69	215.15	212.83	212.43	212.23	212.13	212.09	
5	212.07	212.25	213.05	212.29	212.23	212.87	214.29	212.80	212.42	212.22	212.13	212.09	
6	212.09	212.60	212.71	212.33	212.26	214.17	213.88	212.78	212.40	212.21	212.13	212.10	
7	212.12	212.50	213.67	212.46	212.18	216.84	213.62	212.75	212.39	212.21	212.13	212.10	
8	212.11	212.23	214.06	212.43	212.17	216.00	214.16	212.73	212.38	212.21	212.13	212.10	
9	212.11	212.37	214.23	212.40	212.17	214.57	214.35	212.70	212.38	212.20	212.14	212.10	
10	212.10	212.18	213.50	212.36	212.25	213.91	214.05	212.68	212.38	212.20	212.22	212.10	
11	212.10	212.14	212.98	212.32	213.01	213.73	213.72	212.66	212.38	212.22	212.15	212.10	
12	212.09	212.11	212.74	212.31	212.83	215.01	213.51	212.64	212.36	212.21	212.27	212.09	
13	212.08	212.11	212.62	212.32	214.37	215.74	213.41	212.63	212.36	212.20	212.24	212.10	
14	212.07	213.00	212.55	212.25	212.66	214.16	213.31	212.67	212.35	212.20	212.19	212.10	
15	212.06	212.44	212.50	212.23	212.43	213.61	213.34	212.70	212.34	212.19	212.17	212.09	
16	212.06	212.23	212.43	212.22	212.47	213.41	213.70	212.71	212.35	212.19	212.16	212.09	
17	212.05	212.19	212.41	212.21	212.48	213.42	213.54	212.65	212.35	212.21	212.16	212.09	
18	212.08	212.20	212.39	212.20	213.04	213.41	213.35	212.62	212.35	212.20	212.15	212.09	
19	212.10	212.22	212.38	212.19	214.18	213.95	213.43	212.61	212.32	212.18	212.14	212.12	
20	212.22	212.23	212.40	212.18	213.46	215.49	213.33	212.72	212.31	212.17	212.13	212.13	
21	212.21	212.18	212.77	212.16	213.10	215.55	213.22	212.63	212.30	212.16	212.13	212.10	
22	212.19	212.15	212.82	212.17	212.92	214.46	213.98	212.60	212.30	212.15	212.13	212.10	
23	212.24	212.12	212.75	212.17	212.86	214.08	213.48	212.59	212.30	212.13	212.13	212.12	
24	212.19	212.13	212.58	212.18	212.99	213.87	213.30	212.59	212.30	212.13	212.13	212.14	
25	212.17	212.14	212.49	212.20	214.12	213.76	213.22	212.57	212.29	212.13	212.15	212.14	
26	212.15	212.11	212.41	212.17	213.56	214.08	213.14	212.53	212.28	212.13	212.13	212.15	
27	212.12	212.09	212.34	212.14	213.10	214.12	213.08	212.52	212.27	212.14	212.11	212.12	
28	212.11	212.09	212.32	212.15	212.96	213.74	213.03	212.50	212.26	212.14	212.10	212.16	
29	212.22	212.08	212.30	212.15	212.91	213.59	212.98	212.49	212.26	212.14	212.11	212.17	
30	212.65	212.07	212.28	212.16	212.90	213.60	212.95	212.47	212.24	212.13		212.16	
31		212.08		212.19	212.88		212.92		212.24	212.14		212.16	
MEAN	212.14	212.24	212.76	212.25	212.82	214.08	213.66	212.67	212.34	212.18	212.15	212.11	
MAX	212.65	213.00	214.23	212.46	214.37	216.84	215.67	212.90	212.45	212.23	212.27	212.17	216.84
MIN	212.05	212.07	212.08	212.14	212.17	212.69	212.92	212.47	212.24	212.13	212.10	212.09	212.05

ANNUAL MAX MOMENTARY GAGE HEIGHT 217.19 M (MSL), AT 12.00 HOURS, ON SEP 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 211.00 M (MSL), RIVER BED 211.52 M (MSL)
LEFT BANK ELEVATION 219.76 M (MSL)
RIGHT BANK ELEVATION 218.87 M (MSL), DRAINAGE AREA 422 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	1.05	0.08	0.44	0.28	2.25	8.24	2.50	0.80	0.34	0.18	0.10	
2	0.08	0.32	1.52	0.46	0.30	1.96	15.00	2.40	0.78	0.34	0.16	0.10	
3	0.07	0.24	1.96	0.46	0.40	2.00	30.55	2.25	0.76	0.36	0.16	0.10	
4	0.07	0.18	7.76	0.44	0.42	1.56	22.95	2.15	0.76	0.36	0.16	0.09	
5	0.07	0.40	3.25	0.48	0.36	2.35	12.90	2.00	0.74	0.34	0.16	0.09	
6	0.09	1.20	1.64	0.56	0.42	11.70	9.04	1.92	0.70	0.32	0.16	0.10	
7	0.14	0.90	7.36	0.82	0.26	50.42	6.96	1.80	0.68	0.32	0.16	0.10	
8	0.12	0.36	10.64	0.76	0.24	35.80	11.60	1.72	0.66	0.32	0.16	0.10	
9	0.12	0.64	12.30	0.70	0.24	15.77	13.50	1.60	0.66	0.30	0.18	0.10	
10	0.10	0.26	6.10	0.62	0.40	9.29	10.55	1.52	0.66	0.30	0.34	0.10	
11	0.10	0.18	2.90	0.54	3.05	7.84	7.76	1.44	0.66	0.34	0.20	0.10	
12	0.09	0.12	1.76	0.52	2.15	21.13	6.17	1.36	0.62	0.32	0.44	0.09	
13	0.08	0.12	1.28	0.54	13.70	31.64	5.47	1.32	0.62	0.30	0.38	0.10	
14	0.07	3.00	1.05	0.40	1.44	11.60	4.77	1.48	0.60	0.30	0.28	0.10	
15	0.06	0.78	0.90	0.36	0.76	6.88	4.98	1.60	0.58	0.28	0.24	0.09	
16	0.06	0.36	0.76	0.34	0.84	5.47	7.60	1.64	0.60	0.28	0.22	0.09	
17	0.05	0.28	0.72	0.32	0.86	5.54	6.38	1.40	0.60	0.32	0.22	0.09	
18	0.08	0.30	0.68	0.30	3.20	5.47	5.05	1.28	0.60	0.30	0.20	0.09	
19	0.10	0.34	0.66	0.28	11.80	9.65	5.61	1.24	0.54	0.26	0.18	0.14	
20	0.34	0.36	0.70	0.26	5.82	27.85	4.91	1.68	0.52	0.24	0.16	0.16	
21	0.32	0.26	1.88	0.22	3.50	28.75	4.14	1.32	0.50	0.22	0.16	0.10	
22	0.28	0.20	2.10	0.24	2.60	14.60	9.92	1.20	0.50	0.20	0.16	0.10	
23	0.38	0.14	1.80	0.24	2.30	10.82	5.96	1.17	0.50	0.16	0.16	0.14	
24	0.28	0.16	1.14	0.26	2.95	8.96	4.70	1.17	0.50	0.16	0.16	0.18	
25	0.24	0.18	0.88	0.30	11.20	8.08	4.14	1.11	0.48	0.16	0.20	0.18	
26	0.20	0.12	0.72	0.24	6.52	10.82	3.70	0.99	0.46	0.16	0.16	0.20	
27	0.14	0.09	0.58	0.18	3.50	11.20	3.40	0.96	0.44	0.18	0.12	0.14	
28	0.12	0.09	0.54	0.20	2.80	7.92	3.15	0.90	0.42	0.18	0.10	0.22	
29	0.34	0.08	0.50	0.20	2.55	6.73	2.90	0.88	0.42	0.18	0.12	0.24	
30	1.40	0.07	0.46	0.22	2.50	6.80	2.75	0.84	0.38	0.16		0.22	
31		0.08		0.28	2.40		2.60		0.38	0.18		0.22	
TOTAL	5.67	12.86	74.62	12.18	89.76	380.85	247.35	44.84	18.12	8.18	5.68	3.97	904.08 CMSDAY
MEAN	0.19	0.41	2.49	0.39	2.90	12.70	7.98	1.49	0.58	0.26	0.20	0.13	2.47 CMS
MAX	1.40	3.00	12.30	0.82	13.70	50.42	30.55	2.50	0.80	0.36	0.44	0.24	50.42 CMS
MIN	0.05	0.07	0.08	0.18	0.24	1.56	2.60	0.84	0.38	0.16	0.10	0.09	0.05 CMS
RUNOFF	0.490	1.111	6.447	1.052	7.755	32.905	21.371	3.874	1.566	0.707	0.491	0.343	78.113 MCM

MOMENTARY PEAK 56.72 CMS, AT 217.19 M (MSL), AT 12.00 HOURS, ON SEP 7, 1987

RUNOFF YIELD 5.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 134.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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, KING AMPHOE NONG BUA RAHEO, CHAIYAPHUM.

DRAINAGE AREA — 390 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +211.25 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ALONG THE MEASURING LINE.

ELEVATION — +217.647 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1970 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1972 - 1981, 1988 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1972 - 1981, 1988 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

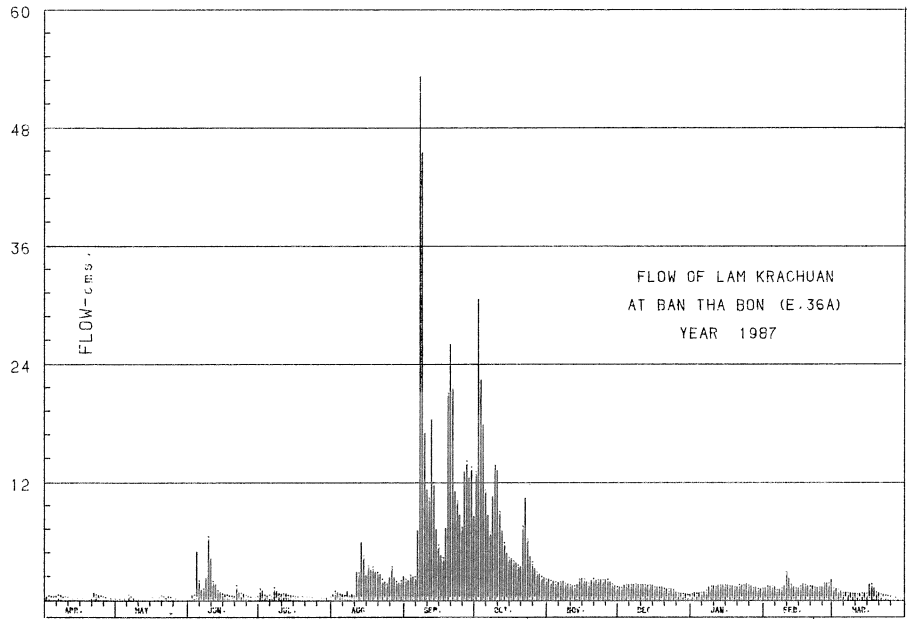
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 187 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.25	213.19	213.14	213.47	213.33	213.61	214.53	213.61	213.49	213.36	213.48	213.48	
2	213.30	213.18	213.30	213.43	213.43	213.59	215.51	213.59	213.49	213.39	213.51	213.46	
3	213.29	213.18	213.33	213.33	213.39	213.67	215.10	213.58	213.52	213.39	213.50	213.45	
4	213.28	213.18	213.91	213.29	213.35	213.64	214.82	213.57	213.53	213.39	213.51	213.42	
5	213.29	213.21	213.59	213.33	213.33	213.65	214.41	213.56	213.53	213.40	213.49	213.40	
6	213.33	213.33	213.44	213.28	213.31	214.09	214.22	213.57	213.53	213.41	213.45	213.40	
7	213.31	213.26	213.47	213.49	213.42	216.58	214.08	213.58	213.53	213.44	213.45	213.39	
8	213.26	213.19	213.62	213.42	213.29	216.23	214.36	213.55	213.54	213.49	213.48	213.38	
9	213.26	213.18	214.04	213.37	213.34	214.79	214.57	213.54	213.53	213.51	213.51	213.37	
10	213.25	213.16	213.85	213.35	213.29	214.41	214.54	213.53	213.53	213.51	213.71	213.36	
11	213.23	213.15	213.58	213.37	213.71	214.35	214.25	213.51	213.53	213.50	213.62	213.35	
12	213.21	213.16	213.53	213.36	213.70	214.85	214.09	213.51	213.53	213.52	213.53	213.36	
13	213.21	213.16	213.44	213.32	213.99	214.46	213.99	213.53	213.52	213.52	213.49	213.38	
14	213.21	213.19	213.40	213.30	213.88	214.10	213.90	213.61	213.52	213.52	213.48	213.37	
15	213.21	213.22	213.37	213.29	213.66	213.97	213.86	213.62	213.52	213.53	213.47	213.37	
16	213.22	213.23	213.33	213.27	213.78	213.88	213.85	213.61	213.50	213.52	213.51	213.53	
17	213.21	213.20	213.33	213.26	213.73	213.86	213.83	213.57	213.49	213.51	213.54	213.54	
18	213.22	213.17	213.30	213.26	213.77	214.11	213.81	213.55	213.49	213.51	213.53	213.47	
19	213.22	213.25	213.29	213.26	213.71	215.01	213.79	213.59	213.49	213.50	213.51	213.41	
20	213.29	213.29	213.28	213.26	213.71	215.28	213.77	213.62	213.47	213.49	213.51	213.38	
21	213.38	213.28	213.52	213.25	213.68	215.05	214.13	213.59	213.46	213.53	213.51	213.35	
22	213.34	213.21	213.39	213.25	213.61	214.40	214.35	213.60	213.46	213.52	213.49	213.33	
23	213.30	213.27	213.39	213.23	213.57	214.33	214.02	213.60	213.46	213.52	213.48	213.31	
24	213.29	213.25	213.35	213.23	213.54	214.22	213.87	213.60	213.45	213.54	213.49	213.29	
25	213.27	213.21	213.32	213.24	213.63	214.12	213.82	213.60	213.40	213.52	213.49	213.27	
26	213.24	213.20	213.28	213.22	213.77	214.53	213.75	213.61	213.38	213.51	213.55	213.24	
27	213.23	213.19	213.26	213.23	213.63	214.60	213.71	213.57	213.37	213.48	213.55	213.23	
28	213.22	213.18	213.24	213.22	213.58	214.49	213.68	213.54	213.37	213.49	213.55	213.21	
29	213.21	213.16	213.23	213.23	213.55	214.56	213.65	213.51	213.35	213.47	213.60	213.21	
30	213.20	213.14	213.28	213.25	213.59	214.21	213.63	213.50	213.34	213.46		213.19	
31		213.13		213.26	213.65		213.61		213.33	213.47		213.17	
MEAN	213.26	213.20	213.43	213.30	213.58	214.42	214.11	213.57	213.47	213.48	213.52	213.36	
MAX	213.38	213.33	214.04	213.49	213.99	216.58	215.51	213.62	213.54	213.54	213.71	213.54	216.58
MIN	213.20	213.13	213.14	213.22	213.29	213.59	213.61	213.50	213.33	213.36	213.45	213.17	213.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 216.95 M (MSL), AT 11.00 HOURS, ON SEP 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 211.25 M (MSL), RIVER BED 211.99 M (MSL)
LEFT BANK ELEVATION 222.01 M (MSL)
RIGHT BANK ELEVATION 219.48 M (MSL), DRAINAGE AREA 290 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.19	0.14	1.22	0.59	2.17	13.08	2.17	1.34	0.68	1.28	1.28	
2	0.50	0.18	0.50	0.98	0.98	2.03	30.60	2.03	1.34	0.77	1.47	1.16	
3	0.47	0.18	0.59	0.59	0.77	2.59	22.70	1.96	1.54	0.77	1.40	1.10	
4	0.44	0.18	4.92	0.47	0.65	2.38	17.84	1.89	1.61	0.77	1.47	0.92	
5	0.47	0.23	2.03	0.59	0.59	2.45	11.25	1.82	1.61	0.80	1.34	0.80	
6	0.59	0.59	1.04	0.44	0.53	7.08	8.66	1.89	1.61	0.86	1.10	0.80	
7	0.53	0.38	1.22	1.34	0.92	53.54	6.96	1.96	1.61	1.04	1.10	0.77	
8	0.38	0.19	2.24	0.92	0.47	45.49	10.54	1.75	1.68	1.34	1.28	0.74	
9	0.38	0.18	6.48	0.71	0.62	17.33	13.72	1.68	1.61	1.47	1.47	0.71	
10	0.35	0.16	4.25	0.65	0.47	11.25	13.24	1.61	1.61	1.47	2.89	0.68	
11	0.29	0.15	1.96	0.71	2.89	10.40	9.05	1.47	1.61	1.40	2.24	0.65	
12	0.23	0.16	1.61	0.68	2.80	18.35	7.08	1.47	1.61	1.54	1.61	0.68	
13	0.23	0.16	1.04	0.56	5.88	12.00	5.88	1.61	1.54	1.54	1.34	0.74	
14	0.23	0.19	0.80	0.50	4.58	7.20	4.80	2.17	1.54	1.54	1.28	0.71	
15	0.23	0.26	0.71	0.47	2.52	5.64	4.36	2.24	1.54	1.61	1.22	0.71	
16	0.26	0.29	0.59	0.41	3.52	4.58	4.25	2.17	1.40	1.54	1.47	1.61	
17	0.23	0.20	0.59	0.38	3.07	4.36	4.03	1.89	1.34	1.47	1.68	1.68	
18	0.26	0.17	0.50	0.38	3.43	7.32	3.81	1.75	1.34	1.47	1.61	1.22	
19	0.26	0.35	0.47	0.38	2.89	21.08	3.61	2.03	1.34	1.40	1.47	0.86	
20	0.47	0.47	0.44	0.38	2.89	26.02	3.43	2.24	1.22	1.34	1.47	0.74	
21	0.74	0.44	1.54	0.35	2.66	21.80	7.56	2.03	1.16	1.61	1.47	0.65	
22	0.62	0.23	0.77	0.35	2.17	11.10	10.40	2.10	1.16	1.54	1.34	0.59	
23	0.50	0.41	0.77	0.29	1.89	10.12	6.24	2.10	1.16	1.54	1.28	0.53	
24	0.47	0.35	0.65	0.29	1.68	8.66	4.47	2.10	1.10	1.68	1.34	0.47	
25	0.41	0.23	0.56	0.32	2.31	7.44	3.92	2.10	0.80	1.54	1.34	0.41	
26	0.32	0.20	0.44	0.26	3.43	13.08	3.25	2.17	0.74	1.47	1.75	0.32	
27	0.29	0.19	0.38	0.29	2.31	14.20	2.89	1.89	0.71	1.28	1.75	0.29	
28	0.26	0.18	0.32	0.26	1.96	12.45	2.66	1.68	0.71	1.34	1.75	0.23	
29	0.23	0.16	0.29	0.29	1.75	13.56	2.45	1.47	0.65	1.22	2.10	0.23	
30	0.20	0.14	0.44	0.35	2.03	8.53	2.31	1.40	0.62	1.16		0.19	
31		0.13		0.38	2.45		2.17		0.59	1.22		0.17	
TOTAL	11.19	7.52	38.28	16.19	65.70	384.20	247.21	56.84	39.44	40.42	44.31	22.64	973.94 CMSDAY
MEAN	0.37	0.24	1.28	0.52	2.12	12.81	7.97	1.89	1.27	1.30	1.53	0.73	2.66 CMS
MAX	0.74	0.59	6.48	1.34	5.88	53.54	30.60	2.24	1.68	1.68	2.89	1.68	53.54 CMS
MIN	0.20	0.13	0.14	0.26	0.47	2.03	2.17	1.40	0.59	0.68	1.10	0.17	0.13 CMS
RUNOFF	0.967	0.650	3.307	1.399	5.676	33.195	21.359	4.911	3.408	3.492	3.828	1.956	84.148 MCM

MOMENTARY PEAK 62.40 CMS, AT 216.95 M (MSL), AT 11.00 HOURS, ON SEP 7, 1987
RUNOFF YIELD 9.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 215.17 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

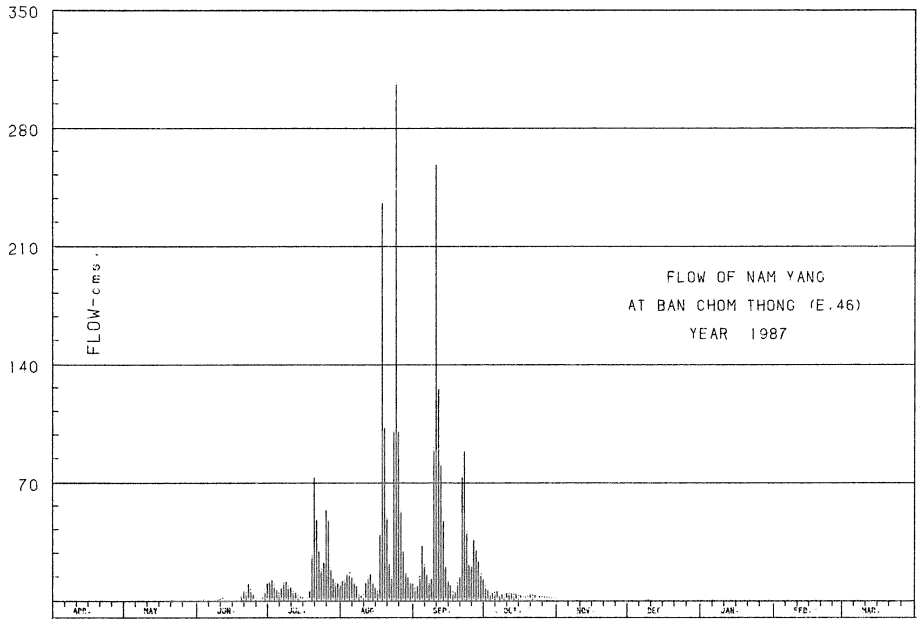
NAM YANG AT BAN CHOM THONG, KALASIN (E.46)

LOCATION	LAT. 16°-36'-06" N., LONG. 103°-58'-01" E., ON LEFT BANK AT HIGHWAY BRIDGE, BAN CHOM THONG, AMPHOE KUCHINARAI, KALASIN.
DRAINAGE AREA	502 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+6.485 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968-1971, 1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969-1970, 1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969-1970, 1984 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +5.23 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 65 DISCHARGE MEASUREMENTS MADE DURING 1984-1988.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.09	0.08	3.33	3.25	2.49	2.81	0.63	0.37	0.28	0.28	0.24	
2	0.15	0.08	0.24	3.35	3.39	2.66	2.14	0.61	0.35	0.30	0.24	0.24	
3	0.16	0.06	0.41	2.97	3.70	3.65	1.73	0.58	0.35	0.29	0.26	0.25	
4	0.17	0.04	0.40	2.11	3.80	4.04	1.61	0.57	0.35	0.31	0.26	0.27	
5	0.18	0.04	0.37	1.79	3.58	3.91	1.88	0.59	0.33	0.31	0.27	0.26	
6	0.16	0.10	0.33	2.37	3.30	3.69	1.98	0.61	0.37	0.30	0.28	0.27	
7	0.16	0.12	0.28	3.09	2.67	3.29	1.61	0.62	0.38	0.30	0.28	0.27	
8	0.15	0.11	0.32	3.18	1.48	3.45	1.36	0.67	0.29	0.30	0.28	0.26	
9	0.16	0.09	0.39	2.88	1.09	4.43	1.34	0.69	0.42	0.28	0.28	0.26	
10	0.13	0.08	0.56	2.48	1.43	4.84	1.55	0.73	0.37	0.31	0.28	0.23	
11	0.12	0.08	0.76	2.12	3.01	4.57	1.71	0.63	0.36	0.32	0.28	0.24	
12	0.13	0.06	0.63	1.71	3.65	4.38	1.62	0.58	0.36	0.32	0.28	0.24	
13	0.13	0.05	0.45	1.27	3.71	4.18	1.55	0.70	0.34	0.30	0.27	0.22	
14	0.09	0.10	0.37	0.96	3.41	3.87	1.42	0.66	0.33	0.30	0.28	0.22	
15	0.06	0.08	0.33	0.82	2.45	3.46	1.22	0.55	0.33	0.31	0.28	0.21	
16	0.07	0.07	0.30	0.79	2.12	2.78	1.14	0.57	0.30	0.30	0.26	0.23	
17	0.06	0.05	0.28	0.78	4.10	1.95	1.01	0.47	0.28	0.32	0.26	0.23	
18	0.06	0.04	0.28	1.95	4.81	1.78	0.92	0.43	0.28	0.30	0.26	0.23	
19	0.05	0.04	1.18	3.99	4.48	3.11	1.13	0.46	0.31	0.30	0.29	0.22	
20	0.07	0.04	1.95	4.34	4.19	3.59	1.36	0.45	0.29	0.30	0.29	0.21	
21	0.06	0.02	1.83	4.19	3.91	4.35	1.32	0.45	0.29	0.28	0.25	0.17	
22	0.04	0.08	2.92	4.01	3.64	4.42	1.19	0.43	0.29	0.29	0.26	0.19	
23	0.05	0.08	2.35	3.85	4.47	4.12	1.11	0.41	0.30	0.30	0.25	0.17	
24	0.04	0.06	1.32	3.92	4.91	3.90	1.08	0.38	0.31	0.26	0.26	0.20	
25	0.04	0.05	0.89	4.23	4.47	3.91	1.05	0.40	0.31	0.27	0.25	0.19	
26	0.03	0.05	0.69	4.17	4.22	4.07	0.97	0.37	0.29	0.28	0.24	0.14	
27	0.10	0.04	0.56	3.87	4.01	4.03	0.91	0.39	0.29	0.28	0.24	0.16	
28	0.09	0.12	0.81	3.47	3.78	3.93	0.89	0.41	0.29	0.30	0.25	0.20	
29	0.08	0.23	2.31	3.06	3.57	3.75	0.71	0.37	0.32	0.32	0.25	0.20	
30	0.05	0.15	2.99	2.98	3.31	3.42	0.81	0.37	0.30	0.33		0.20	
31		0.12		3.04	2.95		0.70		0.28	0.30		0.19	
MEAN	0.10	0.08	0.89	2.81	3.45	3.67	1.35	0.53	0.32	0.30	0.27	0.22	
MAX	0.18	0.23	2.99	4.34	4.91	4.84	2.81	0.73	0.42	0.33	0.29	0.27	4.91
MIN	0.03	0.02	0.08	0.78	1.09	1.78	0.70	0.37	0.28	0.26	0.24	0.14	0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.36 M (A.D), AT 21.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.12 M (A.D)
LEFT BANK ELEVATION 5.22 M (A.D)
RIGHT BANK ELEVATION 5.28 M (A.D), DRAINAGE AREA 502 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	12.08	11.60	7.71	9.25	1.39	0.61	0.34	0.34	0.22	
2	0.00	0.00	0.22	12.20	12.44	8.50	6.16	1.33	0.55	0.40	0.22	0.22	
3	0.02	0.00	0.73	10.05	15.40	14.60	4.69	1.24	0.55	0.37	0.28	0.25	
4	0.04	0.00	0.70	6.04	17.00	32.40	4.33	1.21	0.55	0.43	0.28	0.31	
5	0.06	0.00	0.61	4.87	13.67	21.70	5.18	1.27	0.49	0.43	0.31	0.28	
6	0.02	0.00	0.49	7.16	11.90	15.24	5.53	1.33	0.61	0.40	0.34	0.31	
7	0.02	0.00	0.34	10.69	8.55	11.84	4.33	1.36	0.64	0.40	0.34	0.31	
8	0.00	0.00	0.46	11.19	3.94	12.82	3.58	1.51	0.37	0.40	0.34.	0.28	
9	0.02	0.00	0.67	9.60	2.77	90.55	3.52	1.57	0.76	0.34	0.34	0.28	
10	0.00	0.00	1.18	7.66	3.79	258.00	4.15	1.69	0.61	0.43	0.34	0.19	
11	0.00	0.00	1.78	6.08	10.26	126.95	4.63	1.39	0.58	0.46	0.34	0.22	
12	0.00	0.00	1.39	4.63	14.60	80.00	4.36	1.24	0.58	0.46	0.34	0.22	
13	0.00	0.00	0.85	3.31	15.56	48.60	4.15	1.60	0.52	0.40	0.31	0.16	
14	0.00	0.00	0.61	2.38	12.56	19.80	3.76	1.48	0.49	0.40	0.34	0.16	
15	0.00	0.00	0.49	1.96	7.53	12.89	3.16	1.15	0.49	0.43	0.34	0.13	
16	0.00	0.00	0.40	1.87	6.08	9.10	2.92	1.21	0.40	0.40	0.28	0.19	
17	0.00	0.00	0.34	1.84	39.00	5.43	2.53	0.91	0.34	0.46	0.28	0.19	
18	0.00	0.00	0.34	5.43	237.00	4.84	2.26	0.79	0.34	0.40	0.28	0.19	
19	0.00	0.00	3.04	27.30	102.30	10.80	2.89	0.88	0.43	0.40	0.37	0.16	
20	0.00	0.00	5.43	73.00	49.80	13.74	3.58	0.85	0.37	0.40	0.37	0.13	
21	0.00	0.00	5.01	49.80	21.70	74.75	3.46	0.85	0.37	0.34	0.25	0.04	
22	0.00	0.00	9.80	29.10	14.44	88.20	3.07	0.79	0.37	0.37	0.28	0.08	
23	0.00	0.00	7.07	19.00	99.95	41.40	2.83	0.73	0.40	0.40	0.25	0.04	
24	0.00	0.00	3.46	22.40	307.00	21.00	2.74	0.64	0.43	0.28	0.28	0.10	
25	0.00	0.00	2.17	55.50	99.95	21.70	2.65	0.70	0.43	0.31	0.25	0.08	
26	0.00	0.00	1.57	47.40	54.00	35.70	2.41	0.61	0.37	0.34	0.22	0.00	
27	0.00	0.00	1.18	19.80	29.10	31.30	2.23	0.67	0.37	0.34	0.22	0.02	
28	0.00	0.00	1.93	12.96	16.68	23.10	2.17	0.73	0.37	0.40	0.25	0.10	
29	0.00	0.19	6.89	10.53	13.61	16.20	1.63	0.61	0.46	0.46	0.25	0.10	
30	0.00	0.00	10.15	10.10	11.96	12.63	1.93	0.61	0.40	0.49		0.10	
31		0.00		10.42	9.95		1.60		0.34	0.40		0.08	
TOTAL	0.18	0.19	69.30	506.35	1274.09	1171.49	111.68	32.34	14.59	12.28	8.63	5.14	3206.26 CMSDAY
MEAN	0.01	0.01	2.31	16.33	41.10	39.05	3.60	1.08	0.47	0.40	0.30	0.17	8.76 CMS
MAX	0.06	0.19	10.15	73.00	307.00	258.00	9.25	1.69	0.76	0.49	0.37	0.31	307.00 CMS
MIN	0.00	0.00	0.00	1.84	2.77	4.84	1.60	0.61	0.34	0.28	0.22	0.00	0.00 CMS
RUNOFF	0.016	0.016	5.988	43.749	110.081	101.217	9.649	2.794	1.261	1.061	0.746	0.444	277.021 MCM

MOMENTARY PEAK 634.00 CMS, AT 5.36 M (A.D), AT 21.00 HOURS, ON AUG 23, 1987

RUNOFF YIELD 17.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1262.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

LAM CHI LONG AT BAN LUP PHO, CHAIYAPHUM (E.49B)

LOCATION — LAT. 15°-47'-28" N., LONG. 101°-52'-20" E., ON RIGHT BANK AT THE BRIDGE ON ROAD, BAN LUP PHO, TAMBON TALAT PAENG, AMPHOE BAN KHWAO, CHAIYAPHUM.

DRAINAGE AREA — 331 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +196.182 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK UPSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +200.251 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 — 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

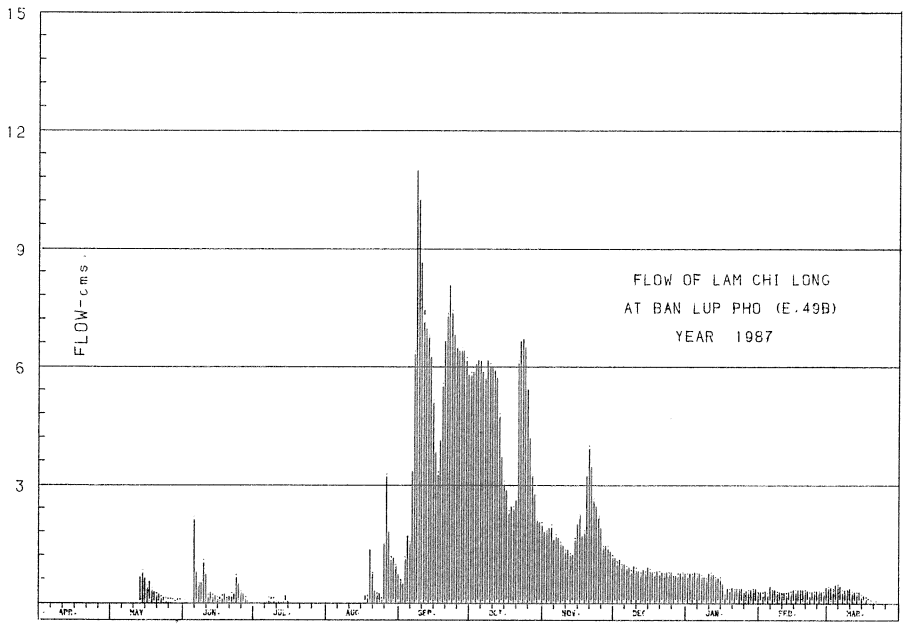
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STREAM GAGING BEGAN ON MAY13,1987. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	196.99	196.92	196.64	197.20	198.18	197.50	197.36	197.25	197.09	197.14	
2	*******	*******	196.98	196.90	196.64	197.16	198.18	197.51	197.34	197.25	197.09	197.13	
3	*******	*******	196.98	196.87	196.63	197.37	198.22	197.52	197.35	197.25	197.10	197.12	
4	*******	*******	196.99	196.86	196.63	197.48	198.22	197.54	197.32	197.26	197.08	197.15	
5	*******	*******	197.58	196.87	196.63	197.45	198.23	197.46	197.32	197.25	197.14	197.16	
6	*******	*******	197.26	196.97	196.63	197.79	198.18	197.49	197.31	197.25	197.11	197.14	
7	*******	*******	197.17	197.02	196.63	198.25	198.17	197.47	197.30	197.24	197.11	197.11	
8	*******	*******	197.17	197.02	196.63	198.82	198.22	197.45	197.28	197.22	197.10	197.11	
9	*******	*******	197.35	197.02	196.62	198.74	198.21	197.43	197.31	197.21	197.09	197.11	
10	*******	*******	197.24	197.00	196.62	198.53	198.20	197.41	197.30	197.25	197.08	197.12	
11	*******	*******	197.06	196.96	196.62	198.39	198.20	197.41	197.27	197.26	197.08	197.10	
12	*******	*******	197.08	196.88	196.62	198.32	198.16	197.39	197.26	197.24	197.08	197.09	
13	*******	197.22	197.06	196.97	196.61	198.30	198.03	197.38	197.28	197.22	197.09	197.09	
14	*******	197.28	197.04	197.04	196.61	198.23	197.85	197.47	197.27	197.21	197.10	197.09	
15	*******	197.21	197.03	196.97	196.61	198.08	197.75	197.54	197.30	197.22	197.11	197.06	
16	*******	197.15	197.02	196.87	196.60	197.87	197.71	197.59	197.29	197.16	197.11	197.04	
17	*******	197.18	197.05	196.88	197.04	197.79	197.61	197.48	197.26	197.06	197.11	197.03	
18	*******	197.13	197.06	196.85	197.05	197.92	197.63	197.51	197.26	197.12	197.11	197.01	
19	*******	197.09	197.02	196.84	197.41	198.14	197.63	197.77	197.27	197.12	197.11	196.99	
20	*******	197.08	197.03	196.84	197.26	198.28	197.66	197.90	197.27	197.13	197.11	196.99	
21	*******	197.06	197.08	196.84	197.10	198.37	198.22	197.81	197.26	197.12	197.10	196.98	
22	*******	197.04	197.06	196.70	197.08	198.46	198.28	197.67	197.25	197.12	197.09	196.98	
23	*******	197.02	197.24	196.66	197.07	198.38	198.30	197.63	197.26	197.12	197.09	196.98	
24	*******	197.02	197.16	196.66	197.02	198.30	198.26	197.59	197.26	197.12	197.10	196.88	
25	*******	197.01	197.10	196.65	197.44	198.27	198.13	197.52	197.26	197.11	197.10	196.88	
26	*******	197.01	197.06	196.65	197.78	198.25	197.93	197.43	197.23	197.10	197.10	196.88	
27	*******	197.00	197.03	196.65	197.50	198.26	197.78	197.43	197.23	197.11	197.09	196.88	
28	*******	196.98	196.99	196.64	197.37	198.25	197.69	197.43	197.25	197.11	197.09	196.88	
29	*******	197.00	196.95	196.64	197.36	198.23	197.57	197.40	197.25	197.12	197.13	196.88	
30	*******	197.00	196.94	196.64	197.32	198.17	197.55	197.38	197.26	197.12		196.88	
31		196.99		196.64	197.24		197.55		197.25	197.09		196.88	
MEAN	*******	*******	197.09	196.84	196.94	198.10	197.98	197.52	197.28	197.17	197.10	197.02	
MAX	*******	197.28	197.58	197.04	197.78	198.82	198.30	197.90	197.36	197.26	197.14	197.16	198.82
MIN	*******	*******	196.94	196.64	196.60	197.16	197.55	197.38	197.23	197.06	197.08	196.88	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 198.87 M (MSL), AT 18.00 HOURS, ON SEP 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 196.18 M (MSL), RIVER BED 196.77 M (MSL)
LEFT BANK ELEVATION 199.39 M (MSL)
RIGHT BANK ELEVATION 199.39 M (MSL), DRAINAGE AREA 331 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.080	0.000	0.000	0.600	5.860	1.800	1.140	0.750	0.280	0.420	
2	*******	*******	0.060	0.000	0.000	0.480	5.860	1.850	1.060	0.750	0.280	0.390	
3	*******	*******	0.060	0.000	0.000	1.180	6.160	1.900	1.100	0.750	0.300	0.360	
4	*******	*******	0.080	0.000	0.000	1.700	6.160	2.000	0.980	0.780	0.260	0.450	
5	*******	*******	2.200	0.000	0.000	1.550	6.240	1.600	0.980	0.750	0.420	0.480	
6	*******	*******	0.780	0.040	0.000	3.340	5.860	1.750	0.940	0.750	0.330	0.420	
7	*******	*******	0.510	0.140	0.000	6.400	5.790	1.650	0.900	0.720	0.330	0.330	
8	*******	*******	0.510	0.140	0.000	10.980	6.160	1.550	0.840	0.660	0.300	0.330	
9	*******	*******	1.100	0.140	0.000	10.320	6.080	1.450	0.940	0.630	0.280	0.330	
10	*******	*******	0.720	0.100	0.000	8.640	6.000	1.350	0.900	0.750	0.260	0.360	
11	*******	*******	0.220	0.020	0.000	7.520	6.000	1.350	0.810	0.780	0.260	0.300	
12	*******	*******	0.260	0.000	0.000	6.960	5.720	1.260	0.780	0.720	0.260	0.280	
13	*******	0.660	0.220	0.040	0.000	6.800	4.810	1.220	0.840	0.660	0.280	0.280	
14	*******	0.840	0.180	0.180	0.000	6.240	3.700	1.650	0.810	0.630	0.300	0.280	
15	*******	0.630	0.160	0.040	0.000	5.160	3.100	2.000	0.900	0.660	0.330	0.220	
16	*******	0.450	0.140	0.000	0.000	3.820	2.860	2.250	0.870	0.480	0.330	0.180	
17	*******	0.540	0.200	0.000	0.180	3.340	2.350	1.700	0.780	0.220	0.330	0.160	
18	*******	0.390	0.220	0.000	0.200	4.120	2.450	1.850	0.780	0.360	0.330	0.120	
19	*******	0.280	0.140	0.000	1.350	5.580	2.450	3.220	0.810	0.360	0.330	0.080	
20	*******	0.260	0.160	0.000	0.780	6.640	2.600	4.000	0.810	0.390	0.330	0.080	
21	*******	0.220	0.260	0.000	0.300	7.360	6.160	3.460	0.780	0.360	0.300	0.060	
22	*******	0.180	0.220	0.000	0.260	8.080	6.640	2.650	0.750	0.360	0.280	0.060	
23	*******	0.140	0.720	0.000	0.240	7.440	6.800	2.450	0.780	0.360	0.280	0.060	
24	*******	0.140	0.480	0.000	0.140	6.800	6.480	2.250	0.780	0.360	0.300	0.000	
25	*******	0.120	0.300	0.000	1.500	6.560	5.510	1.900	0.780	0.330	0.300	0.000	
26	*******	0.120	0.220	0.000	3.280	6.400	4.180	1.450	0.690	0.300	0.300	0.000	
27	*******	0.100	0.160	0.000	1.800	6.480	3.280	1.450	0.690	0.330	0.280	0.000	
28	*******	0.060	0.080	0.000	1.180	6.400	2.750	1.450	0.750	0.330	0.280	0.000	
29	*******	0.100	0.000	0.000	1.140	6.240	2.150	1.300	0.750	0.360	0.390	0.000	
30	*******	0.100	0.000	0.000	0.980	5.790	2.050	1.220	0.780	0.360		0.000	
31		0.080		0.000	0.720		2.050		0.750	0.280		0.000	
TOTAL	*******	*******	10.440	0.840	14.050	168.920	144.260	56.980	26.250	16.280	8.830	6.030	******** CMSDAY
MEAN	*******	*******	0.348	0.027	0.453	5.631	4.654	1.899	0.847	0.525	0.304	0.195	******** CMS
MAX	*******	0.840	2.200	0.180	3.280	10.980	6.800	4.000	1.140	0.780	0.420	0.480	10.980 CMS
MIN	*******	*******	0.000	0.000	0.000	0.480	2.050	1.220	0.690	0.220	0.260	0.000	******** CMS
RUNOFF	*******	*******	0.902	0.073	1.214	14.595	12.464	4.923	2.268	1.407	0.763	0.521	******** MCM

MOMENTARY PEAK 11.43 CMS, AT 198.87 M (MSL), AT 18.00 HOURS, ON SEP 8, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 34.53 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

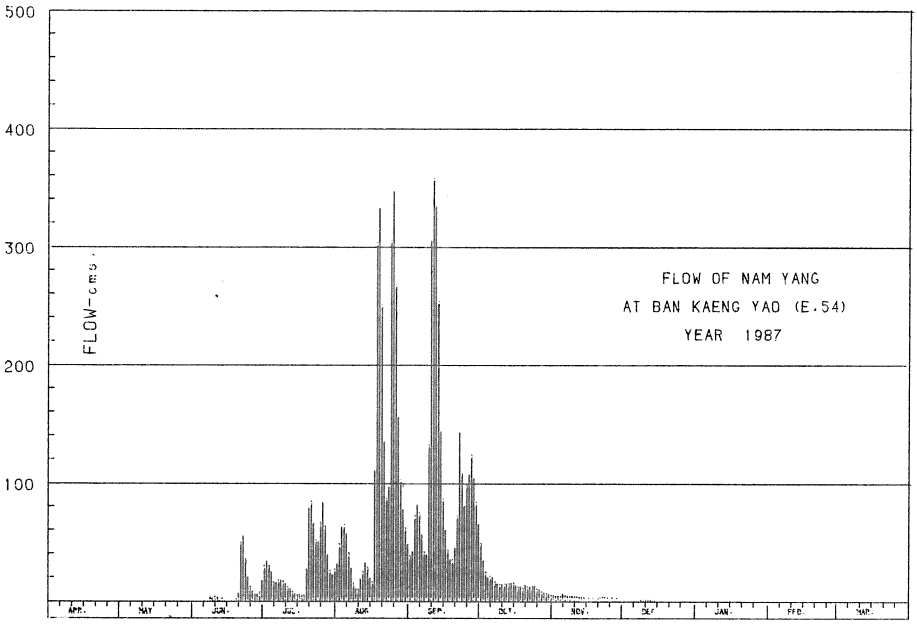
NAM YANG AT BAN KAENG YAO, KALASIN (E.54)

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	1,511 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT ABUTMENT OF THE BRIDGE.
ELEVATION	+11.648 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, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 - 1977, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.81	0.76	0.77	2.38	2.42	2.62	2.93	1.34	1.13	0.95	0.88	0.83	
2	0.79	0.75	0.77	2.49	2.91	2.72	2.50	1.31	1.05	0.96	0.89	0.94	
3	0.80	0.75	0.78	2.37	3.28	3.53	2.20	1.30	1.06	0.97	0.86	0.92	
4	0.76	0.75	0.81	2.20	3.34	3.74	2.04	1.30	1.06	0.91	0.89	0.88	
5	0.80	0.79	0.94	1.89	3.14	3.59	2.08	1.40	1.06	0.85	0.88	0.87	
6	0.79	0.83	0.94	1.87	2.70	3.12	2.05	1.34	1.04	0.94	0.87	0.91	
7	0.77	0.86	0.91	1.96	2.30	2.72	1.91	1.30	1.03	0.88	0.83	0.94	
8	0.77	0.81	1.22	1.95	1.86	2.65	1.83	1.29	1.04	0.91	0.85	0.94	
9	0.77	0.80	1.17	1.92	1.62	4.82	1.82	1.30	1.04	0.98	0.88	0.93	
10	0.76	0.79	1.27	1.83	1.61	7.57	1.81	1.29	1.07	0.98	0.87	0.93	
11	0.76	0.79	1.22	1.72	1.99	8.32	1.83	1.27	1.05	0.95	0.86	0.93	
12	0.76	0.85	1.20	1.62	2.22	7.98	1.83	1.25	1.05	0.97	0.84	0.92	
13	0.75	0.83	1.15	1.53	2.44	6.84	1.84	1.24	1.01	0.97	0.82	0.94	
14	0.75	0.83	1.11	1.40	2.34	5.03	1.87	1.22	1.02	0.96	0.84	0.94	
15	0.74	0.80	1.03	1.36	2.01	3.87	1.87	1.20	1.01	0.96	0.84	0.91	
16	0.78	0.78	0.97	1.38	1.90	3.22	1.76	1.20	1.00	0.90	0.84	0.94	
17	0.79	0.79	0.92	1.33	4.38	2.76	1.72	1.17	1.02	0.88	0.87	0.93	
18	0.78	0.78	1.10	1.35	7.55	2.53	1.71	1.15	0.99	0.88	0.85	0.90	
19	0.76	0.77	1.10	2.28	7.96	2.53	1.66	1.18	0.97	0.96	0.81	0.89	
20	0.76	0.80	1.43	3.68	6.80	2.81	1.78	1.15	0.97	0.94	0.84	0.86	
21	0.74	0.79	2.96	3.82	4.86	3.52	1.73	1.24	1.00	0.93	0.83	0.83	
22	0.75	0.77	3.09	3.36	3.88	5.01	1.71	1.25	0.99	0.99	0.84	0.89	
23	0.77	0.78	2.54	3.00	4.09	4.33	1.75	1.23	0.95	0.91	0.85	0.87	
24	0.80	0.77	2.05	2.96	7.58	3.72	1.75	1.23	0.89	0.86	0.81	0.85	
25	0.78	0.76	1.73	3.39	8.16	4.13	1.64	1.21	0.93	0.85	0.84	0.84	
26	0.79	0.77	1.53	3.79	7.05	4.31	1.60	1.22	0.93	0.84	0.88	0.92	
27	0.76	0.76	1.40	3.30	5.26	4.65	1.52	1.20	0.93	0.86	0.86	0.92	
28	0.76	0.75	1.39	2.64	4.23	4.25	1.46	1.17	0.93	0.86	0.78	0.95	
29	0.76	0.77	1.49	2.24	3.65	3.81	1.45	1.15	0.98	0.82	0.79	0.93	
30	0.77	0.77	1.94	2.12	3.27	3.34	1.40	1.14	0.97	0.85		0.85	
31		0.79		2.28	2.90		1.37		0.96	0.86		0.84	
MEAN	0.77	0.79	1.36	2.30	3.86	4.13	1.82	1.24	1.00	0.91	0.85	0.90	
MAX	0.81	0.86	3.09	3.82	8.16	8.32	2.93	1.40	1.13	0.99	0.89	0.95	8.32
MIN	0.74	0.75	0.77	1.33	1.61	2.53	1.37	1.14	0.89	0.82	0.78	0.83	0.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.37 M (A.D), AT 3.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.56 M (A.D)
LEFT BANK ELEVATION 10.47 M (A.D)
RIGHT BANK ELEVATION 10.55 M (A.D), DRAINAGE AREA 1511 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.06	0.07	30.48	31.76	38.48	49.38	5.10	2.30	0.75	0.42	0.22	
2	0.09	0.05	0.07	34.07	48.66	41.90	34.40	4.65	1.50	0.80	0.46	0.70	
3	0.10	0.05	0.08	30.17	62.70	72.73	25.00	4.50	1.60	0.85	0.34	0.60	
4	0.06	0.05	0.14	25.00	65.10	81.48	20.32	4.50	1.60	0.55	0.46	0.42	
5	0.10	0.09	0.70	16.35	57.16	75.19	21.44	6.00	1.60	0.30	0.42	0.38	
6	0.09	0.22	0.70	15.85	41.20	56.38	20.60	5.10	1.40	0.70	0.38	0.55	
7	0.07	0.34	0.55	18.16	28.00	41.90	16.86	4.50	1.30	0.42	0.22	0.70	
8	0.07	0.14	3.30	17.90	15.60	39.50	14.85	4.35	1.40	0.55	0.30	0.70	
9	0.07	0.10	2.70	17.12	10.40	132.92	14.60	4.50	1.40	0.90	0.42	0.65	
10	0.06	0.09	4.05	14.85	10.20	305.07	14.35	4.35	1.70	0.90	0.38	0.65	
11	0.06	0.09	3.30	12.42	18.94	358.32	14.85	4.05	1.50	0.75	0.34	0.65	
12	0.06	0.30	3.00	10.40	25.60	334.18	14.85	3.75	1.50	0.85	0.26	0.60	
13	0.05	0.22	2.50	8.60	32.42	254.12	15.10	3.60	1.10	0.85	0.18	0.70	
14	0.05	0.22	2.10	6.00	29.24	143.76	15.85	3.30	1.20	0.80	0.26	0.70	
15	0.04	0.10	1.30	5.40	19.48	87.01	15.85	3.00	1.10	0.80	0.26	0.55	
16	0.08	0.08	0.85	5.70	16.60	60.30	13.26	3.00	1.00	0.50	0.26	0.70	
17	0.09	0.09	0.60	4.95	110.62	43.30	12.42	2.70	1.20	0.42	0.38	0.65	
18	0.08	0.08	2.00	5.25	303.65	35.42	12.21	2.50	0.95	0.42	0.30	0.50	
19	0.06	0.07	2.00	27.40	332.76	35.42	11.20	2.80	0.85	0.80	0.14	0.46	
20	0.06	0.10	6.60	78.96	251.40	45.06	13.68	2.50	0.85	0.70	0.26	0.34	
21	0.04	0.09	50.46	84.86	134.96	72.32	12.63	3.60	1.00	0.65	0.22	0.22	
22	0.05	0.07	55.23	65.90	87.44	142.72	12.21	3.75	0.95	0.95	0.26	0.46	
23	0.07	0.08	35.76	51.90	96.74	108.17	13.05	3.45	0.75	0.55	0.30	0.38	
24	0.10	0.07	20.60	50.46	305.78	80.64	13.05	3.45	0.46	0.34	0.14	0.30	
25	0.08	0.06	12.63	67.10	346.96	98.61	10.80	3.15	0.65	0.30	0.26	0.26	
26	0.09	0.07	8.60	83.58	268.50	107.19	10.00	3.30	0.65	0.26	0.42	0.60	
27	0.06	0.06	6.00	63.50	155.88	124.25	8.40	3.00	0.65	0.34	0.34	0.60	
28	0.06	0.05	5.85	39.16	103.34	104.30	7.20	2.70	0.65	0.34	0.08	0.75	
29	0.06	0.07	7.80	26.20	77.70	84.43	7.00	2.50	0.90	0.18	0.09	0.65	
30	0.07	0.07	17.64	22.60	62.30	65.10	6.00	2.40	0.85	0.30		0.30	
31		0.09		27.40	48.30		5.55		0.80	0.34		0.26	
TOTAL	2.16	3.32	257.18	967.69	3199.39	3270.17	476.96	110.05	35.36	18.16	8.55	16.20	8365.19 CMSDAY
MEAN	0.07	0.11	8.57	31.22	103.21	109.01	15.39	3.67	1.14	0.59	0.29	0.52	22.86 CMS
MAX	0.14	0.34	55.23	84.86	346.96	358.32	49.38	6.00	2.30	0.95	0.46	0.75	358.32 CMS
MIN	0.04	0.05	0.07	4.95	10.20	35.42	5.55	2.40	0.46	0.18	0.08	0.22	0.04 CMS
RUNOFF	0.187	0.287	22.220	83.608	276.427	282.543	41.209	9.508	3.055	1.569	0.739	1.400	722.753 MCM

MOMENTARY PEAK 361.87 CMS, AT 8.37 M (A.D), AT 3.00 HOURS, ON AUG 25, 1987

RUNOFF YIELD 15.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 239.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

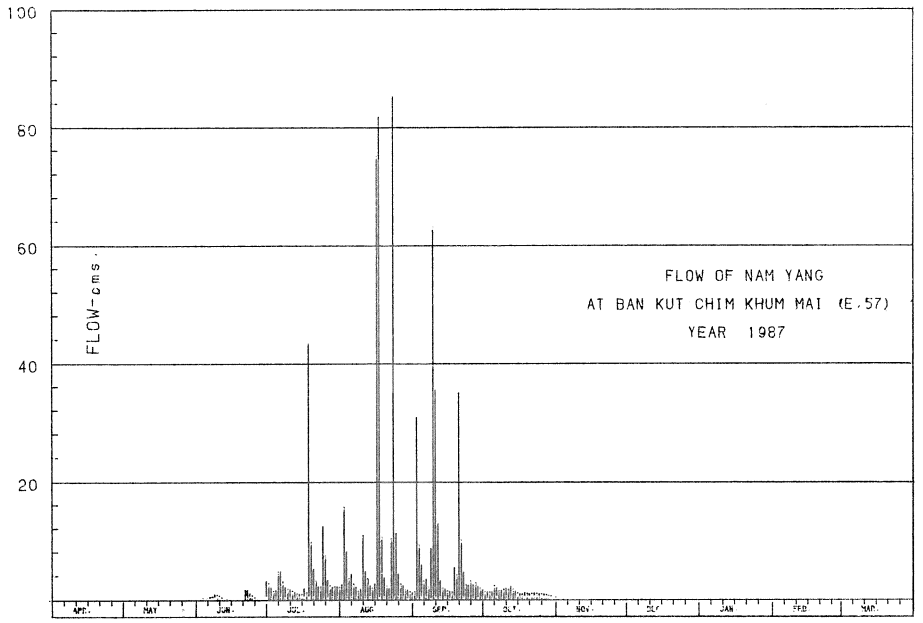
NAM YANG AT BAN KUT CHIM KHUM MAI, KALASIN (E.57)

LOCATION	LAT. 16°-41'-05" N., LONG. 104°-05'-10" E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY BAN KUT CHIM KHUM MAI, AMPHOE KHAO WONG, KALASIN.
DRAINAGE AREA	98 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+7.757 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969-1971, 1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969-1970, 1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969-1970, 1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.06	-0.06	0.12	0.51	0.49	0.35	0.35	0.22	0.12	-0.01	-0.06	-0.06	
2	-0.06	-0.06	0.17	0.43	1.04	1.42	0.34	0.22	0.12	-0.02	-0.06	-0.06	
3	-0.06	-0.06	0.20	0.37	0.79	0.83	0.34	0.21	0.12	-0.02	-0.06	-0.06	
4	-0.06	-0.06	0.19	0.38	0.57	0.69	0.34	0.21	0.11	-0.03	-0.06	-0.06	
5	-0.06	-0.06	0.20	0.64	0.62	0.54	0.47	0.20	0.11	-0.04	-0.06	-0.06	
6	-0.06	-0.06	0.23	0.64	0.50	0.56	0.42	0.19	0.11	-0.05	-0.06	-0.06	
7	-0.06	-0.06	0.24	0.53	0.44	0.44	0.37	0.19	0.10	-0.05	-0.06	-0.06	
8	-0.06	-0.06	0.29	0.44	0.36	0.81	0.37	0.18	0.10	-0.06	-0.06	-0.06	
9	-0.06	-0.06	0.28	0.41	0.40	2.03	0.40	0.17	0.10	-0.06	-0.06	-0.06	
10	-0.06	-0.06	0.26	0.39	0.89	1.52	0.41	0.16	0.09	-0.06	-0.06	-0.06	
11	-0.06	-0.06	0.22	0.37	0.64	0.97	0.40	0.16	0.09	-0.06	-0.06	-0.06	
12	-0.06	-0.06	0.20	0.34	0.57	0.54	0.45	0.15	0.09	-0.06	-0.06	-0.06	
13	-0.06	-0.06	0.19	0.31	0.46	0.42	0.40	0.15	0.08	-0.06	-0.06	-0.06	
14	-0.06	0.14	0.18	0.30	0.43	0.40	0.35	0.14	0.08	-0.06	-0.06	-0.06	
15	-0.06	0.16	0.19	0.30	0.50	0.37	0.32	0.14	0.08	-0.06	-0.06	-0.06	
16	-0.06	0.14	0.19	0.41	2.22	0.35	0.30	0.13	0.07	-0.06	-0.06	-0.06	
17	-0.06	0.13	0.18	0.34	2.32	0.34	0.30	0.13	0.07	-0.06	-0.06	-0.06	
18	-0.06	0.12	0.18	1.68	0.88	0.67	0.32	0.13	0.06	-0.06	-0.06	-0.06	
19	-0.06	0.11	0.19	0.85	0.58	0.61	0.31	0.15	0.06	-0.06	-0.06	-0.06	
20	-0.06	0.10	0.18	0.66	0.46	1.51	0.30	0.14	0.05	-0.06	-0.06	-0.06	
21	-0.06	0.09	0.46	0.54	0.41	0.86	0.31	0.14	0.05	-0.06	-0.06	-0.06	
22	-0.06	0.08	0.38	0.45	0.87	0.63	0.31	0.14	0.04	-0.06	-0.06	-0.06	
23	-0.06	0.07	0.31	0.45	2.37	0.49	0.31	0.13	0.04	-0.06	-0.06	-0.06	
24	-0.06	0.06	0.27	0.94	0.92	0.47	0.30	0.13	0.03	-0.06	-0.06	-0.06	
25	-0.06	0.05	0.22	0.76	0.62	0.54	0.30	0.13	0.03	-0.06	-0.06	-0.06	
26	-0.06	0.04	0.21	0.55	0.50	0.48	0.29	0.13	0.02	-0.06	-0.06	-0.06	
27	-0.06	0.03	0.20	0.47	0.46	0.51	0.28	0.12	0.02	-0.06	-0.06	-0.06	
28	-0.06	0.02	0.21	0.44	0.40	0.45	0.26	0.12	0.01	-0.06	-0.06	-0.06	
29	-0.06	0.13	0.26	0.45	0.38	0.42	0.25	0.12	0.01	-0.06	-0.06	-0.06	
30	-0.06	0.13	0.54	0.45	0.35	0.38	0.25	0.12	0.00	-0.06		-0.06	
31		0.12		0.44	0.32		0.22		0.00	-0.06		-0.06	
MEAN	-0.06	0.03	0.24	0.52	0.73	0.69	0.33	0.16	0.07	-0.05	-0.06	-0.06	
MAX	-0.06	0.16	0.54	1.68	2.37	2.03	0.47	0.22	0.12	-0.01	-0.06	-0.06	2.37
MIN	-0.06	-0.06	0.12	0.30	0.32	0.34	0.22	0.12	0.00	-0.06	-0.06	-0.06	-0.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.66 M (A.D), AT 5.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.03 M (A.D)
LEFT BANK ELEVATION 6.57 M (A.D)
RIGHT BANK ELEVATION 6.59 M (A.D), DRAINAGE AREA 98 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	2.83	2.61	1.40	1.40	0.44	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.12	2.07	15.74	30.92	1.32	0.44	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.30	1.56	8.17	9.24	1.32	0.37	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.24	1.64	3.61	5.89	1.32	0.37	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.30	4.84	4.42	3.22	2.43	0.30	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.51	4.84	2.70	3.48	1.98	0.24	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.58	3.09	2.16	2.16	1.56	0.24	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.93	2.16	1.48	8.68	1.56	0.18	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.86	1.89	1.80	63.16	1.80	0.12	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.72	1.72	10.92	35.56	1.89	0.06	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.44	1.56	4.84	13.37	1.80	0.06	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.30	1.32	3.61	3.22	2.25	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.24	1.08	2.34	1.98	1.80	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.18	1.00	2.07	1.80	1.40	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.06	0.24	1.00	2.70	1.56	1.16	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.24	1.89	75.12	1.40	1.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.18	1.32	81.78	1.32	1.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.18	43.40	10.64	5.47	1.16	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.24	9.80	3.74	4.21	1.08	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.18	5.26	2.34	35.08	1.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	2.34	3.22	1.89	10.08	1.08	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	1.64	2.25	10.36	4.63	1.08	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	1.08	2.25	85.23	2.61	1.08	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.79	12.44	11.82	2.43	1.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.44	7.48	4.42	3.22	1.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.37	3.35	2.70	2.52	0.93	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.30	2.43	2.34	2.83	0.86	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.37	2.16	1.80	2.25	0.72	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.72	2.25	1.64	1.98	0.65	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	3.22	2.25	1.40	1.64	0.65	0.00	0.00	0.00		0.00	
31		0.00		2.16	1.16		0.44		0.00	0.00		0.00	
TOTAL	0.00	0.06	18.25	136.51	367.55	267.31	39.72	2.82	0.00	0.00	0.00	0.00	832.22 CMSDAY
MEAN	0.00	0.00	0.61	4.40	11.86	8.91	1.28	0.09	0.00	0.00	0.00	0.00	2.27 CMS
MAX	0.00	0.06	3.22	43.40	85.23	63.16	2.43	0.44	0.00	0.00	0.00	0.00	85.23 CMS
MIN	0.00	0.00	0.00	1.00	1.16	1.32	0.44	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.005	1.577	11.794	31.756	23.096	3.432	0.244	0.000	0.000	0.000	0.000	71.904 MCM

MOMENTARY PEAK 198.50 CMS, AT 3.66 M (A.D), AT 5.00 HOURS, ON AUG 17, 1987

RUNOFF YIELD 23.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2025.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

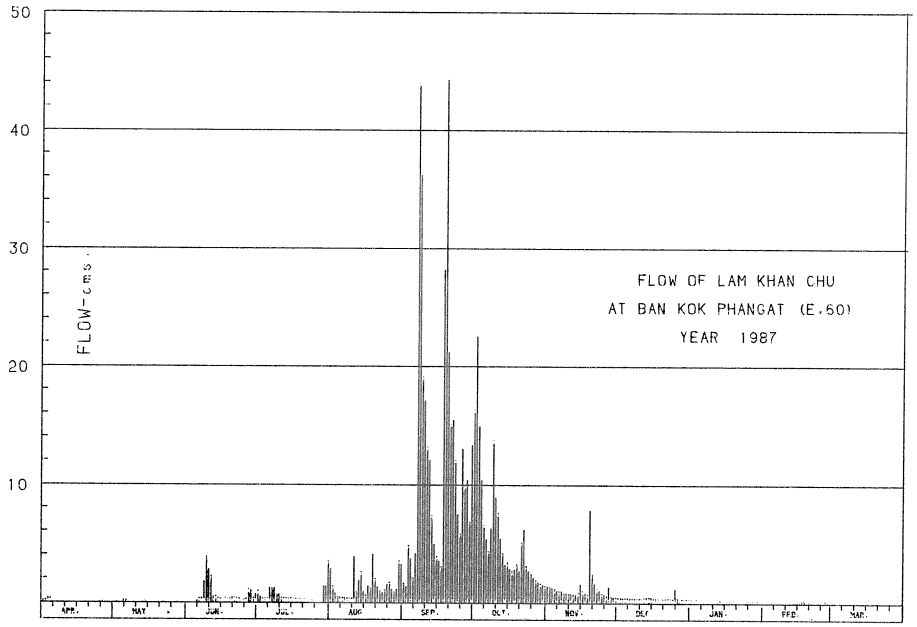
LAM KHAN CHU AT BAN KHOK PHANGAT, CHAIYAPHUM (E.60)

LOCATION	LAT. 15°-29'-14" N., LONG. 101°-33'-32" E., ON LEFT BANK ABOUT 500 METERS FROM BAN KHOK PHANGAT, AMPHOE BAMNET NARONG, CHAIYAPHUM.
DRAINAGE AREA	205 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 8 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+7.326 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 53 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.55	0.61	1.16	1.75	1.37	3.84	1.28	0.95	0.77	0.62	0.55	
2	0.66	0.55	0.60	0.97	1.29	1.27	4.41	1.26	0.93	0.77	0.60	0.54	
3	0.85	0.53	0.63	0.86	1.10	2.23	3.71	1.24	0.89	0.76	0.61	0.52	
4	0.82	0.52	0.65	0.80	1.00	1.98	3.11	1.21	0.92	0.75	0.59	0.51	
5	0.68	0.67	0.95	0.87	0.96	1.51	2.58	1.16	0.90	0.74	0.59	0.52	
6	0.64	0.64	0.85	1.24	0.91	2.09	2.33	1.16	0.87	0.74	0.61	0.51	
7	0.61	0.63	0.85	1.22	0.89	5.50	2.13	1.15	0.87	0.70	0.61	0.51	
8	0.60	0.61	1.41	1.23	0.87	5.19	2.52	1.10	0.85	0.70	0.59	0.53	
9	0.59	0.59	2.02	1.05	0.85	4.12	3.53	1.10	0.85	0.70	0.58	0.51	
10	0.54	0.58	1.74	1.06	0.85	3.92	2.92	1.09	0.84	0.70	0.60	0.51	
11	0.53	0.57	1.56	0.93	2.02	3.46	2.73	1.08	0.83	0.71	0.58	0.51	
12	0.55	0.57	1.00	0.87	1.13	3.32	2.34	1.06	0.91	0.71	0.58	0.51	
13	0.54	0.59	1.02	0.85	1.44	2.70	2.10	1.05	0.96	0.69	0.60	0.51	
14	0.54	0.65	0.87	0.84	1.67	2.25	1.85	1.12	0.96	0.68	0.64	0.50	
15	0.53	0.59	0.80	0.85	1.14	2.03	1.90	1.33	0.97	0.67	0.62	0.50	
16	0.52	0.60	0.77	0.83	1.05	1.93	1.75	1.16	0.83	0.66	0.60	0.59	
17	0.53	0.60	0.85	0.79	1.29	1.81	1.70	1.09	0.83	0.66	0.66	0.55	
18	0.51	0.59	0.80	0.78	1.23	4.77	1.73	1.07	0.83	0.66	0.65	0.55	
19	0.54	0.57	0.78	0.78	2.07	5.51	1.86	2.76	0.80	0.69	0.62	0.53	
20	0.53	0.56	0.94	0.76	1.49	4.30	1.69	1.61	0.79	0.65	0.60	0.55	
21	0.55	0.55	0.96	0.76	1.26	3.70	2.28	1.35	0.81	0.65	0.59	0.51	
22	0.54	0.63	0.85	0.74	1.16	3.74	2.50	1.22	0.85	0.65	0.59	0.53	
23	0.53	0.63	0.81	0.73	1.11	3.32	1.83	1.17	0.86	0.65	0.58	0.51	
24	0.53	0.60	0.78	0.72	1.19	2.71	1.70	1.10	0.81	0.64	0.58	0.51	
25	0.57	0.62	0.70	0.70	1.33	2.43	1.61	1.06	1.21	0.64	0.57	0.53	
26	0.57	0.61	0.81	0.70	1.39	3.44	1.52	1.03	0.85	0.64	0.57	0.51	
27	0.55	0.61	1.21	0.69	1.20	3.05	1.45	1.26	0.80	0.62	0.67	0.51	
28	0.54	0.55	1.17	0.69	1.13	3.11	1.40	1.01	0.79	0.64	0.53	0.50	
29	0.57	0.57	0.88	1.40	1.20	2.62	1.36	0.98	0.78	0.64	0.52	0.50	
30	0.55	0.55	1.06	1.28	1.94	3.48	1.32	0.97	0.78	0.64		0.50	
31		0.54		1.94	1.86		1.30		0.78	0.64		0.50	
MEAN	0.58	0.59	0.96	0.94	1.28	3.10	2.23	1.21	0.87	0.68	0.60	0.52	
MAX	0.85	0.67	2.02	1.94	2.07	5.51	4.41	2.76	1.21	0.77	0.67	0.59	5.51
MIN	0.51	0.52	0.60	0.69	0.85	1.27	1.30	0.97	0.78	0.62	0.52	0.50	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.46 M (A.D), AT 6.00 HOURS, ON SEP 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.22 M (A.D)
LEFT BANK ELEVATION 7.51 M (A.D)
RIGHT BANK ELEVATION 6.93 M (A.D), DRAINAGE AREA 205 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.06	0.14	1.00	2.85	1.66	16.36	1.38	0.46	0.31	0.15	0.06	
2	0.20	0.06	0.13	0.48	1.41	1.35	22.53	1.32	0.44	0.31	0.13	0.05	
3	0.38	0.04	0.16	0.38	0.81	4.85	15.19	1.25	0.41	0.30	0.14	0.02	
4	0.35	0.02	0.19	0.33	0.50	3.72	10.38	1.16	0.43	0.29	0.11	0.01	
5	0.23	0.21	0.46	0.39	0.47	2.10	6.60	1.00	0.42	0.28	0.11	0.02	
6	0.18	0.18	0.38	1.25	0.43	4.16	5.35	1.00	0.39	0.28	0.14	0.01	
7	0.14	0.16	0.38	1.19	0.41	44.00	4.35	0.97	0.39	0.25	0.14	0.01	
8	0.13	0.14	1.79	1.22	0.39	36.19	6.30	0.81	0.38	0.25	0.11	0.04	
9	0.11	0.11	3.88	0.66	0.38	19.12	13.74	0.81	0.38	0.25	0.10	0.01	
10	0.05	0.10	2.82	0.69	0.38	17.10	8.94	0.78	0.37	0.25	0.13	0.01	
11	0.04	0.09	2.26	0.44	3.88	13.18	7.61	0.75	0.36	0.26	0.10	0.01	
12	0.06	0.09	0.50	0.39	0.91	12.06	5.40	0.69	0.43	0.26	0.10	0.01	
13	0.05	0.11	0.56	0.38	1.88	7.40	4.20	0.66	0.47	0.24	0.13	0.01	
14	0.05	0.19	0.39	0.37	2.61	4.95	3.20	0.88	0.47	0.23	0.18	0.00	
15	0.04	0.11	0.33	0.38	0.94	3.92	3.40	1.54	0.48	0.21	0.15	0.00	
16	0.02	0.13	0.31	0.36	0.66	3.52	2.85	1.00	0.36	0.20	0.13	0.11	
17	0.04	0.13	0.38	0.33	1.41	3.04	2.70	0.78	0.36	0.20	0.20	0.06	
18	0.01	0.11	0.33	0.32	1.22	28.14	2.79	0.72	0.36	0.20	0.19	0.06	
19	0.05	0.09	0.32	0.32	4.08	44.27	3.24	7.82	0.33	0.24	0.15	0.04	
20	0.04	0.08	0.45	0.30	2.04	21.20	2.67	2.42	0.33	0.19	0.13	0.06	
21	0.06	0.06	0.47	0.30	1.32	15.10	5.10	1.60	0.34	0.19	0.11	0.01	
22	0.05	0.16	0.38	0.28	1.00	15.46	6.20	1.19	0.38	0.19	0.11	0.04	
23	0.04	0.16	0.34	0.28	0.85	12.06	3.12	1.03	0.38	0.19	0.10	0.01	
24	0.04	0.13	0.32	0.27	1.10	7.47	2.70	0.81	0.34	0.18	0.10	0.01	
25	0.09	0.15	0.25	0.25	1.54	5.85	2.42	0.69	1.16	0.18	0.09	0.04	
26	0.09	0.14	0.34	0.25	1.73	13.02	2.13	0.59	0.38	0.18	0.09	0.01	
27	0.06	0.14	1.16	0.24	1.13	9.90	1.91	1.32	0.33	0.15	0.21	0.01	
28	0.05	0.06	1.03	0.24	0.91	10.38	1.76	0.53	0.33	0.18	0.04	0.00	
29	0.09	0.09	0.40	1.76	1.13	6.84	1.63	0.48	0.32	0.18	0.02	0.00	
30	0.06	0.06	0.69	1.38	3.56	13.34	1.51	0.48	0.32	0.18		0.00	
31		0.05		3.56	3.24		1.44		0.32	0.18		0.00	
TOTAL	2.98	3.41	21.54	19.99	45.17	385.35	177.72	36.46	12.62	6.98	3.59	0.73	716.54 CMSDAY
MEAN	0.10	0.11	0.72	0.64	1.46	12.84	5.73	1.22	0.41	0.23	0.12	0.02	1.96 CMS
MAX	0.38	0.21	3.88	3.56	4.08	44.27	22.53	7.82	1.16	0.31	0.21	0.11	44.27 CMS
MIN	0.01	0.02	0.13	0.24	0.38	1.35	1.44	0.48	0.32	0.15	0.02	0.00	0.00 CMS
RUNOFF	0.257	0.295	1.861	1.727	3.903	33.294	15.355	3.150	1.090	0.603	0.310	0.063	61.909 MCM

MOMENTARY PEAK 77.08 CMS, AT 6.46 M (A.D), AT 6.00 HOURS, ON SEP 19, 1987

RUNOFF YIELD 9.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 376.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

LAM PAO AT BAN THA HAI, UDON THANI (E.65)

LOCATION — LAT. 16°-56'-54" N., LONG. 103°-10'-16" E., ON LEFT BANK AT THE BRIDGE ON HIGHWAY, BAN THA HAI, AMPHOE SI THAT, UDON THANI.

DRAINAGE AREA — 1,949 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +10.695 M.(A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1983 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

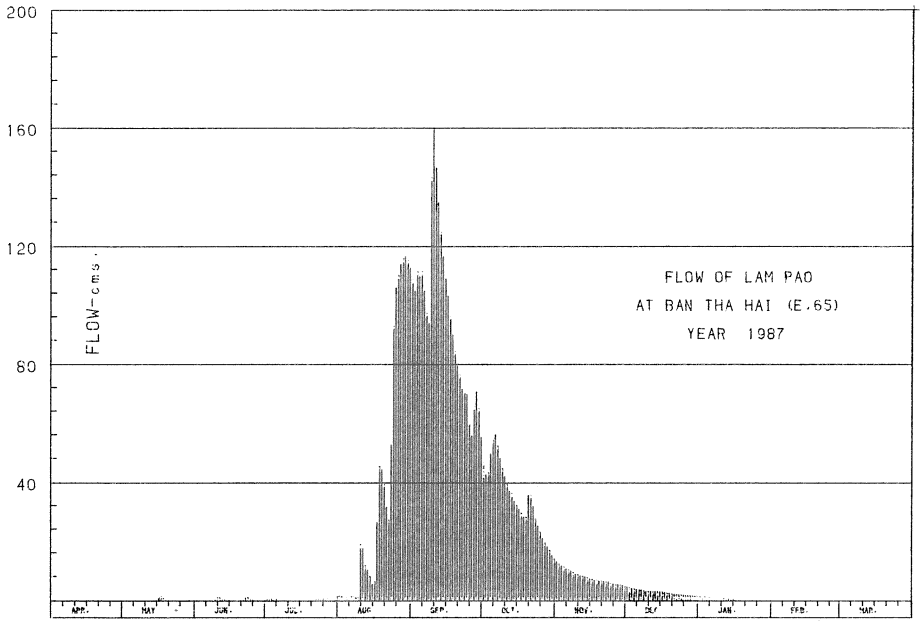
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 98 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.24	1.25	1.21	1.53	1.97	6.04	4.71	3.64	3.13	2.76	2.32	1.81	
2	1.24	1.25	1.21	1.57	1.92	5.97	4.59	3.60	3.11	2.75	2.30	1.80	
3	1.24	1.25	1.23	1.58	1.84	6.09	4.61	3.57	3.09	2.75	2.30	1.81	
4	1.24	1.27	1.23	1.60	1.81	6.06	4.79	3.55	3.08	2.74	2.27	1.77	
5	1.23	1.31	1.22	1.57	1.82	6.09	4.91	3.52	3.06	2.72	2.24	1.75	
6	1.23	1.35	1.28	1.53	1.92	5.97	4.95	3.50	3.05	2.72	2.23	1.73	
7	1.24	1.31	1.29	1.49	1.93	5.83	4.86	3.48	3.04	2.70	2.21	1.71	
8	1.26	1.28	1.31	1.43	1.76	5.76	4.75	3.45	3.02	2.70	2.19	1.69	
9	1.29	1.25	1.54	1.40	1.84	6.58	4.65	3.42	3.00	2.67	2.19	1.67	
10	1.25	1.24	1.81	1.35	3.69	6.84	4.59	3.41	3.00	2.65	2.17	1.64	
11	1.24	1.24	1.77	1.32	3.62	6.65	4.52	3.39	3.00	2.65	2.15	1.62	
12	1.24	1.23	1.61	1.30	3.29	6.45	4.45	3.38	2.99	2.64	2.13	1.60	
13	1.24	1.23	1.49	1.30	3.19	6.30	4.43	3.37	2.99	2.61	2.11	1.59	
14	1.24	1.41	1.38	1.29	3.02	6.17	4.35	3.35	2.99	2.60	2.10	1.58	
15	1.24	1.41	1.32	1.27	2.72	6.07	4.31	3.33	2.98	2.59	2.08	1.57	
16	1.24	1.91	1.32	1.26	2.84	5.94	4.27	3.32	2.97	2.57	2.05	1.56	
17	1.24	1.94	1.32	1.25	4.02	5.81	4.23	3.30	2.95	2.56	2.05	1.55	
18	1.25	1.69	1.30	1.35	4.67	5.68	4.19	3.30	2.94	2.55	2.04	1.55	
19	1.25	1.49	1.27	1.49	4.64	5.57	4.19	3.28	2.92	2.52	1.99	1.54	
20	1.25	1.35	1.25	1.54	4.51	5.47	4.41	3.28	2.90	2.49	1.96	1.52	
21	1.24	1.29	1.40	1.57	4.23	5.41	4.41	3.27	2.88	2.47	1.96	1.52	
22	1.24	1.26	1.77	1.59	4.05	5.30	4.30	3.26	2.86	2.47	1.95	1.52	
23	1.24	1.24	1.84	1.57	4.87	5.30	4.17	3.26	2.85	2.45	1.94	1.52	
24	1.24	1.23	1.65	1.56	5.74	5.26	4.10	3.22	2.85	2.44	1.93	1.51	
25	1.24	1.22	1.45	1.60	5.99	5.05	4.03	3.21	2.83	2.42	1.91	1.51	
26	1.24	1.23	1.34	1.62	6.07	4.94	3.96	3.19	2.82	2.40	1.88	1.50	
27	1.24	1.23	1.32	1.63	6.13	5.17	3.90	3.19	2.81	2.39	1.87	1.49	
28	1.25	1.27	1.31	1.65	6.16	5.28	3.85	3.18	2.80	2.39	1.85	1.48	
29	1.25	1.25	1.33	1.68	6.17	5.15	3.80	3.17	2.79	2.37	1.84	1.48	
30	1.25	1.23	1.40	1.76	6.15	4.93	3.73	3.15	2.78	2.35		1.48	
31		1.21		1.94	6.11		3.68		2.77	2.33		1.48	
MEAN	1.24	1.33	1.41	1.50	3.83	5.77	4.34	3.35	2.94	2.56	2.08	1.60	
MAX	1.29	1.94	1.84	1.94	6.17	6.84	4.95	3.64	3.13	2.76	2.32	1.81	6.84
MIN	1.23	1.21	1.21	1.25	1.76	4.93	3.68	3.15	2.77	2.33	1.84	1.48	1.21

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.88 M (A.D), AT 1.00 HOURS, ON SEP 10, 1987
ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 1.15 M (A.D)
LEFT BANK ELEVATION — 7.96 M (A.D)
RIGHT BANK ELEVATION — 8.04 M (A.D), DRAINAGE AREA — 1949 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.05	0.01	0.46	1.51	108.70	46.85	13.18	4.59	1.36	0.00	0.00	
2	0.04	0.05	0.01	0.54	1.36	104.85	42.65	12.30	4.33	1.30	0.00	0.00	
3	0.04	0.05	0.03	0.56	1.12	111.45	43.35	11.73	4.09	1.30	0.00	0.00	
4	0.04	0.07	0.03	0.60	1.03	109.80	49.65	11.35	3.98	1.24	0.00	0.00	
5	0.03	0.11	0.02	0.54	1.06	111.45	54.44	10.78	3.76	1.12	0.00	0.00	
6	0.03	0.15	0.08	0.46	1.36	104.85	56.20	10.40	3.65	1.12	0.00	0.00	
7	0.04	0.11	0.09	0.38	1.39	97.50	52.40	10.04	3.54	1.00	0.00	0.00	
8	0.06	0.08	0.11	0.26	0.92	94.00	48.25	9.50	3.32	1.00	0.00	0.00	
9	0.09	0.05	0.48	0.20	1.12	143.20	44.75	8.96	3.10	0.88	0.00	0.00	
10	0.05	0.04	1.03	0.15	18.94	160.10	42.04	8.78	3.10	0.80	0.00	0.00	
11	0.04	0.04	0.94	0.12	17.62	147.75	39.52	8.43	3.10	0.80	0.00	0.00	
12	0.04	0.03	0.62	0.10	11.85	134.75	37.05	8.26	3.02	0.76	0.00	0.00	
13	0.04	0.03	0.38	0.10	10.35	125.00	36.35	8.09	3.02	0.64	0.00	0.00	
14	0.04	0.22	0.18	0.09	8.20	116.55	33.60	7.75	3.02	0.60	0.00	0.00	
15	0.04	0.22	0.12	0.07	5.46	110.35	32.24	7.41	2.94	0.57	0.00	0.00	
16	0.04	1.33	0.12	0.06	6.46	103.20	30.91	7.24	2.86	0.51	0.00	0.00	
17	0.04	1.42	0.12	0.05	26.50	96.50	29.59	6.90	2.70	0.48	0.00	0.00	
18	0.05	0.78	0.10	0.15	45.45	90.00	28.27	6.90	2.62	0.45	0.00	0.00	
19	0.05	0.38	0.07	0.38	44.40	84.50	28.27	6.62	2.46	0.36	0.00	0.00	
20	0.05	0.15	0.05	0.48	39.85	79.50	35.65	6.62	2.30	0.27	0.00	0.00	
21	0.04	0.09	0.20	0.54	31.75	76.50	35.65	6.48	2.16	0.21	0.00	0.00	
22	0.04	0.06	0.94	0.58	27.25	71.60	31.90	6.34	2.02	0.21	0.00	0.00	
23	0.04	0.04	1.12	0.54	52.80	71.60	27.61	6.34	1.95	0.15	0.00	0.00	
24	0.04	0.03	0.70	0.52	93.00	69.84	25.30	5.78	1.95	0.12	0.00	0.00	
25	0.04	0.02	0.30	0.60	105.95	60.60	23.13	5.64	1.81	0.06	0.00	0.00	
26	0.04	0.03	0.14	0.64	110.35	55.76	21.12	5.37	1.74	0.00	0.00	0.00	
27	0.04	0.03	0.12	0.66	113.95	65.88	19.50	5.37	1.67	0.00	0.00	0.00	
28	0.05	0.07	0.11	0.70	115.90	70.72	18.25	5.24	1.60	0.00	0.00	0.00	
29	0.05	0.05	0.13	0.76	116.55	65.00	17.00	5.11	1.54	0.00	0.00	0.00	
30	0.05	0.03	0.20	0.92	115.25	55.32	15.25	4.85	1.48	0.00		0.00	
31		0.01		1.42	112.65		14.06		1.42	0.00		0.00	
TOTAL	1.32	5.82	8.55	13.63	1241.35	2896.82	1060.80	237.76	84.84	17.31	0.00	0.00	5568.20 CMSDAY
MEAN	0.04	0.19	0.28	0.44	40.04	96.56	34.22	7.93	2.74	0.56	0.00	0.00	15.21 CMS
MAX	0.09	1.42	1.12	1.42	116.55	160.10	56.20	13.18	4.59	1.36	0.00	0.00	160.10 CMS
MIN	0.03	0.01	0.01	0.05	0.92	55.32	14.06	4.85	1.42	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.114	0.503	0.739	1.178	107.253	250.285	91.653	20.542	7.330	1.496	0.000	0.000	481.092 MCM

MOMENTARY PEAK 162.70 CMS, AT 6.88 M (A.D), AT 1.00 HOURS, ON SEP 10, 1987

RUNOFF YIELD 7.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 83.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

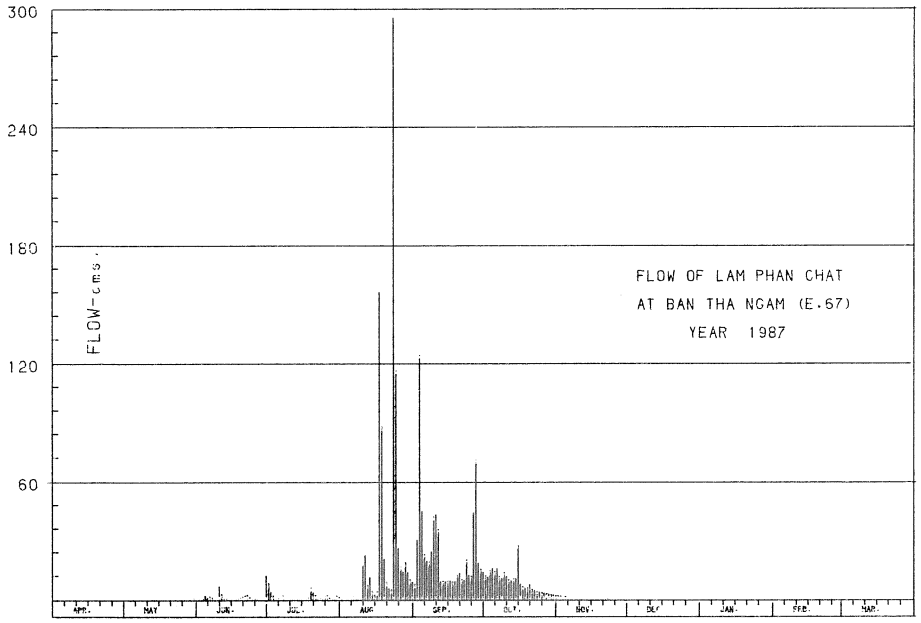
LAM PHAN CHAT AT BAN THA NGAM, UDON THANI (E.67)

LOCATION	LAT. 16°-57'-17" N., LONG. 103°-29'-40" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN THA NGAM, TAMBON SAM PAN, AMPHOE KHAM MUANG, KALASIN.
DRAINAGE AREA	420 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK DOWNSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+13.649 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 180 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.38	1.34	1.43	2.14	1.60	2.12	3.11	2.64	2.34	2.04	1.62	1.51	
2	1.38	1.34	1.47	1.90	1.62	2.88	3.09	2.62	2.33	2.02	1.62	1.52	
3	1.38	1.33	1.48	1.74	1.60	4.93	3.16	2.61	2.31	2.01	1.62	1.50	
4	1.37	1.33	1.73	1.63	1.65	3.29	3.18	2.58	2.30	2.00	1.60	1.50	
5	1.37	1.35	1.62	1.58	1.72	2.64	3.15	2.57	2.29	1.99	1.59	1.49	
6	1.37	1.33	1.69	1.66	1.69	2.52	3.18	2.56	2.27	1.98	1.59	1.50	
7	1.36	1.33	1.63	1.75	1.58	2.51	3.10	2.55	2.26	1.96	1.57	1.50	
8	1.37	1.33	1.62	1.63	1.53	2.68	3.07	2.53	2.25	1.95	1.57	1.50	
9	1.37	1.31	1.64	1.57	1.50	3.22	3.14	2.52	2.25	1.93	1.56	1.50	
10	1.37	1.31	2.07	1.55	2.48	3.25	3.10	2.52	2.24	1.91	1.56	1.50	
11	1.36	1.32	1.82	1.53	2.62	3.04	3.06	2.50	2.24	1.93	1.56	1.50	
12	1.36	1.41	1.63	1.51	2.10	3.03	3.04	2.49	2.23	1.91	1.56	1.50	
13	1.36	1.44	1.56	1.50	2.25	3.04	3.07	2.49	2.23	1.90	1.56	1.51	
14	1.36	1.45	1.51	1.49	1.93	3.03	3.07	2.48	2.21	1.88	1.56	1.51	
15	1.36	1.42	1.48	1.47	1.78	3.04	3.39	2.48	2.21	1.87	1.56	1.50	
16	1.36	1.47	1.46	1.46	1.92	3.04	3.00	2.48	2.22	1.85	1.55	1.49	
17	1.36	1.47	1.45	1.45	5.45	3.03	2.96	2.48	2.20	1.83	1.55	1.48	
18	1.45	1.46	1.56	1.63	4.26	3.03	2.93	2.47	2.18	1.81	1.53	1.48	
19	1.39	1.42	1.62	2.04	2.56	3.11	2.94	2.46	2.18	1.79	1.53	1.47	
20	1.37	1.40	1.68	1.88	2.16	3.13	2.99	2.45	2.16	1.79	1.54	1.46	
21	1.35	1.38	1.74	1.79	2.00	3.06	2.91	2.44	2.14	1.77	1.52	1.46	
22	1.35	1.37	1.80	1.67	1.98	3.05	2.88	2.43	2.14	1.76	1.52	1.46	
23	1.34	1.36	1.66	1.58	7.10	3.26	2.85	2.43	2.13	1.74	1.52	1.46	
24	1.33	1.35	1.58	1.55	4.80	3.11	2.82	2.43	2.13	1.72	1.51	1.46	
25	1.33	1.35	1.54	1.72	2.74	3.10	2.81	2.42	2.12	1.70	1.52	1.48	
26	1.33	1.34	1.51	1.75	2.43	3.67	2.78	2.41	2.11	1.68	1.52	1.49	
27	1.34	1.36	1.48	1.61	2.34	4.01	2.76	2.40	2.10	1.68	1.52	1.47	
28	1.35	1.47	1.50	1.56	2.50	3.23	2.73	2.39	2.09	1.67	1.51	1.46	
29	1.36	1.55	1.56	1.62	2.33	3.17	2.71	2.38	2.08	1.65	1.50	1.45	
30	1.35	1.49	2.28	1.73	2.21	3.14	2.69	2.36	2.06	1.64		1.44	
31		1.45		1.65	2.16		2.66		2.05	1.63		1.43	
MEAN	1.36	1.39	1.63	1.66	2.47	3.11	2.98	2.49	2.20	1.84	1.55	1.48	
MAX	1.45	1.55	2.28	2.14	7.10	4.93	3.39	2.64	2.34	2.04	1.62	1.52	7.10
MIN	1.33	1.31	1.43	1.45	1.50	2.12	2.66	2.36	2.05	1.63	1.50	1.43	1.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.72 M (A.D), AT 17.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.68 M (A.D)
LEFT BANK ELEVATION 12.29 M (A.D)
RIGHT BANK ELEVATION 11.94 M (A.D), DRAINAGE AREA 420 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.18	0.39	8.50	1.00	8.00	12.50	2.12	0.46	0.01	0.00	0.00	
2	0.26	0.18	0.51	4.00	1.16	30.40	11.60	1.96	0.42	0.01	0.00	0.00	
3	0.26	0.16	0.54	2.16	1.00	124.17	15.00	1.88	0.34	0.01	0.00	0.00	
4	0.24	0.16	2.07	1.24	1.40	44.93	16.00	1.68	0.30	0.01	0.00	0.00	
5	0.24	0.20	1.16	0.92	1.98	23.20	14.50	1.62	0.28	0.01	0.00	0.00	
6	0.24	0.16	1.72	1.48	1.72	19.60	16.00	1.56	0.24	0.01	0.00	0.00	
7	0.22	0.16	1.24	2.25	0.92	19.30	12.00	1.50	0.22	0.01	0.00	0.00	
8	0.24	0.16	1.16	1.24	0.72	24.40	10.80	1.38	0.20	0.01	0.00	0.00	
9	0.24	0.12	1.32	0.88	0.60	42.34	14.00	1.32	0.20	0.01	0.00	0.00	
10	0.24	0.12	6.93	0.80	18.40	43.45	12.00	1.32	0.18	0.01	0.00	0.00	
11	0.22	0.14	2.96	0.72	22.60	35.90	10.40	1.20	0.18	0.01	0.00	0.00	
12	0.22	0.33	1.24	0.64	7.50	9.20	9.60	1.15	0.16	0.01	0.00	0.00	
13	0.22	0.42	0.84	0.60	11.50	9.60	10.80	1.15	0.16	0.01	0.00	0.00	
14	0.22	0.45	0.64	0.57	4.48	9.20	10.80	1.10	0.12	0.01	0.00	0.00	
15	0.22	0.36	0.54	0.51	2.52	9.60	27.45	1.10	0.12	0.01	0.00	0.00	
16	0.22	0.51	0.48	0.48	4.32	9.60	8.00	1.10	0.14	0.01	0.00	0.00	
17	0.22	0.51	0.45	0.45	156.25	9.20	6.80	1.10	0.10	0.01	0.00	0.00	
18	0.45	0.48	0.84	1.24	87.96	9.20	5.90	1.05	0.08	0.01	0.00	0.00	
19	0.28	0.36	1.16	6.36	20.80	12.50	6.20	1.00	0.08	0.01	0.00	0.00	
20	0.24	0.30	1.64	3.74	9.00	13.50	7.70	0.95	0.07	0.01	0.00	0.00	
21	0.20	0.26	2.16	2.61	5.60	10.40	5.30	0.90	0.05	0.01	0.00	0.00	
22	0.20	0.24	2.70	1.56	5.28	10.00	4.72	0.85	0.05	0.01	0.00	0.00	
23	0.18	0.22	1.48	0.92	295.00	20.30	4.30	0.85	0.04	0.01	0.00	0.00	
24	0.16	0.20	0.92	0.80	116.50	12.50	3.88	0.85	0.04	0.01	0.00	0.00	
25	0.16	0.20	0.76	1.98	26.20	12.00	3.74	0.80	0.04	0.01	0.00	0.00	
26	0.16	0.18	0.64	2.25	16.90	44.20	3.40	0.75	0.03	0.00	0.00	0.00	
27	0.18	0.22	0.54	1.08	14.20	71.00	3.20	0.70	0.02	0.00	0.00	0.00	
28	0.20	0.51	0.60	0.84	19.00	18.65	2.90	0.66	0.02	0.00	0.00	0.00	
29	0.22	0.80	0.84	1.16	13.90	15.50	2.70	0.62	0.02	0.00	0.00	0.00	
30	0.20	0.57	12.40	2.07	10.30	14.00	2.52	0.54	0.02	0.00		0.00	
31		0.45		1.40	9.00		2.28		0.02	0.00		0.00	
TOTAL	6.81	9.31	50.87	55.45	887.71	735.84	276.99	34.76	4.40	0.25	0.00	0.00	2062.39 CMSDAY
MEAN	0.23	0.30	1.70	1.79	28.64	24.53	8.94	1.16	0.14	0.01	0.00	0.00	5.63 CMS
MAX	0.45	0.80	12.40	8.50	295.00	124.17	27.45	2.12	0.46	0.01	0.00	0.00	295.00 CMS
MIN	0.16	0.12	0.39	0.45	0.60	8.00	2.28	0.54	0.02	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.588	0.804	4.395	4.791	76.698	63.577	23.932	3.003	0.380	0.022	0.000	0.000	178.191 MCM

MOMENTARY PEAK 383.40 CMS, AT 7.72 M (A.D), AT 17.00 HOURS, ON AUG 23, 1987

RUNOFF YIELD 13.42 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 912.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

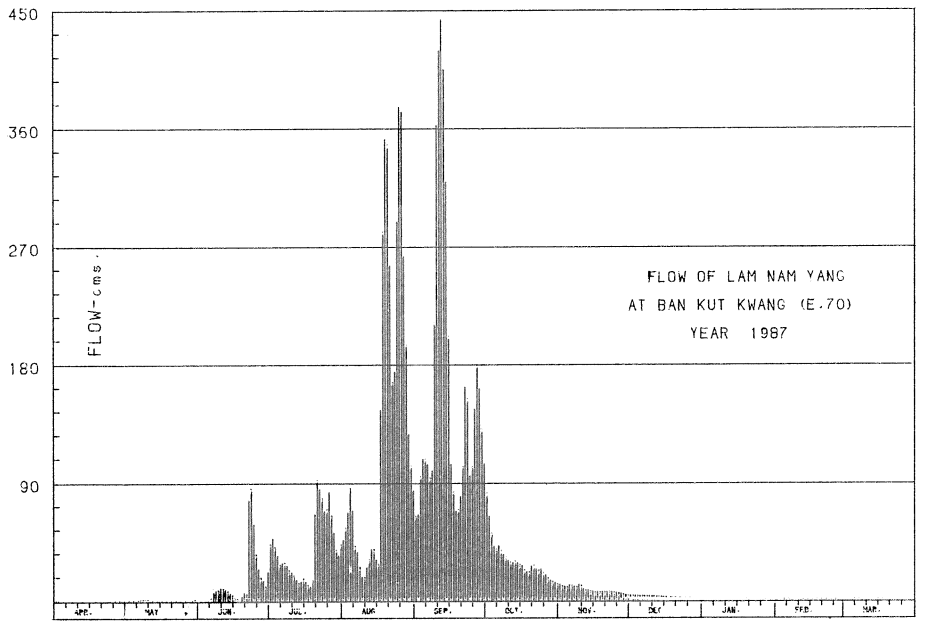
LAM NAM YANG AT BAN KUT KWANG, ROI ET (E.70)

LOCATION	LAT. 16°-17'-15" N., LONG. 104°-00'-33" E., ON RIGHT BANK AT BRIDGE ON HIGHWAY, BAN KUT KWANG, AMPHOE PHON THONG, ROI ET.
DRAINAGE AREA	3,168 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+11.914 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1983 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.30	0.40	1.85	1.92	2.33	2.69	0.98	0.62	0.47	0.40	0.40	
2	0.30	0.32	0.38	1.95	2.14	2.35	2.33	0.94	0.62	0.47	0.40	0.40	
3	0.29	0.32	0.40	1.81	2.39	2.94	2.04	0.92	0.61	0.46	0.40	0.40	
4	0.28	0.32	0.40	1.64	2.76	3.18	1.81	0.91	0.61	0.46	0.40	0.41	
5	0.28	0.32	0.45	1.46	2.42	3.19	1.76	0.97	0.60	0.46	0.40	0.41	
6	0.27	0.35	0.48	1.49	1.82	3.11	1.82	0.95	0.60	0.45	0.40	0.40	
7	0.27	0.40	0.86	1.50	1.71	2.92	1.74	0.92	0.59	0.45	0.40	0.40	
8	0.27	0.40	0.79	1.44	1.41	3.02	1.66	0.91	0.59	0.45	0.40	0.40	
9	0.27	0.41	0.82	1.34	1.18	4.84	1.62	0.98	0.59	0.44	0.40	0.40	
10	0.27	0.40	0.87	1.29	1.18	6.76	1.55	0.95	0.58	0.44	0.40	0.40	
11	0.26	0.40	0.86	1.22	1.39	7.43	1.51	0.85	0.58	0.43	0.40	0.40	
12	0.26	0.28	0.83	1.11	1.57	7.67	1.50	0.82	0.57	0.43	0.40	0.40	
13	0.26	0.23	0.79	1.03	1.76	7.27	1.53	0.81	0.56	0.42	0.39	0.40	
14	0.26	0.25	0.69	1.06	1.76	6.25	1.50	0.79	0.56	0.42	0.39	0.40	
15	0.26	0.25	0.64	1.14	1.56	4.69	1.46	0.77	0.55	0.42	0.39	0.40	
16	0.26	0.25	0.52	1.06	1.47	3.11	1.44	0.75	0.54	0.42	0.39	0.40	
17	0.26	0.20	0.45	0.97	3.83	2.71	1.34	0.75	0.53	0.41	0.39	0.40	
18	0.27	0.20	0.40	0.91	5.77	2.41	1.30	0.75	0.53	0.41	0.39	0.40	
19	0.27	0.20	0.70	1.10	6.64	2.44	1.30	0.75	0.52	0.41	0.39	0.40	
20	0.28	0.20	0.72	2.36	6.59	2.63	1.42	0.75	0.52	0.41	0.39	0.40	
21	0.28	0.20	0.68	2.89	5.44	3.09	1.44	0.75	0.51	0.41	0.38	0.40	
22	0.29	0.20	2.58	2.75	4.17	4.11	1.36	0.76	0.51	0.40	0.38	0.40	
23	0.29	0.20	2.76	2.61	4.29	3.97	1.34	0.75	0.50	0.40	0.38	0.39	
24	0.29	0.20	2.19	2.41	5.89	2.94	1.36	0.74	0.50	0.40	0.38	0.39	
25	0.30	0.19	1.67	2.44	6.92	3.08	1.28	0.72	0.50	0.40	0.38	0.39	
26	0.30	0.19	1.36	2.70	6.91	3.84	1.23	0.71	0.49	0.40	0.39	0.39	
27	0.30	0.15	1.17	2.34	5.53	4.37	1.15	0.69	0.49	0.40	0.40	0.39	
28	0.30	0.15	1.08	2.05	4.60	4.09	1.09	0.66	0.49	0.40	0.40	0.39	
29	0.30	0.32	0.93	1.75	3.52	3.59	1.06	0.64	0.48	0.40	0.40	0.39	
30	0.30	0.40	1.30	1.64	3.09	3.12	1.03	0.63	0.48	0.40		0.39	
31		0.40		1.85	2.72		1.00		0.47	0.40		0.39	
MEAN	0.28	0.28	0.94	1.71	3.37	3.92	1.51	0.81	0.54	0.42	0.39	0.40	
MAX	0.33	0.41	2.76	2.89	6.92	7.67	2.69	0.98	0.62	0.47	0.40	0.41	7.67
MIN	0.26	0.15	0.38	0.91	1.18	2.33	1.00	0.63	0.47	0.40	0.38	0.39	0.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.69 M (A.D), AT 15.00 HOURS, ON SEP 12, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.18 M (A.D)
LEFT BANK ELEVATION 11.22 M (A.D)
RIGHT BANK ELEVATION 9.94 M (A.D), DRAINAGE AREA 3168 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.81	0.60	1.30	43.35	46.40	64.85	82.50	12.68	4.40	2.14	1.30	1.30	
2	0.60	0.74	1.16	47.75	56.30	65.75	64.85	11.64	4.40	2.14	1.30	1.30	
3	0.57	0.74	1.30	41.63	67.55	95.08	51.80	11.12	4.20	2.02	1.30	1.30	
4	0.54	0.74	1.30	34.60	86.00	107.92	41.63	10.86	4.20	2.02	1.30	1.42	
5	0.54	0.74	1.90	27.90	69.00	108.46	39.52	12.42	4.00	2.02	1.30	1.42	
6	0.51	0.95	2.26	28.95	42.06	104.14	42.06	11.90	4.00	1.90	1.30	1.30	
7	0.51	1.30	9.60	29.30	37.42	94.04	38.68	11.12	3.85	1.90	1.30	1.30	
8	0.51	1.30	7.89	27.20	26.15	99.28	35.40	10.86	3.85	1.90	1.30	1.30	
9	0.51	1.42	8.60	23.70	18.40	212.40	33.80	12.68	3.85	1.78	1.30	1.30	
10	0.51	1.30	9.85	21.97	18.40	362.42	31.15	11.90	3.70	1.78	1.30	1.30	
11	0.48	1.30	9.60	19.66	25.45	421.67	29.67	9.35	3.70	1.66	1.30	1.30	
12	0.48	0.54	8.85	16.30	31.89	443.03	29.30	8.60	3.55	1.66	1.30	1.30	
13	0.48	0.39	7.89	14.04	39.52	407.45	30.41	8.35	3.40	1.54	1.23	1.30	
14	0.48	0.45	5.80	14.88	39.52	319.50	29.30	7.89	3.40	1.54	1.23	1.30	
15	0.48	0.45	4.80	17.20	31.52	202.01	27.90	7.47	3.25	1.54	1.23	1.30	
16	0.48	0.45	2.80	14.88	28.25	104.14	27.20	7.05	3.10	1.54	1.23	1.30	
17	0.48	0.30	1.90	12.42	145.66	83.50	23.70	7.05	2.95	1.42	1.23	1.30	
18	0.51	0.30	1.30	10.86	281.33	68.50	22.30	7.05	2.95	1.42	1.23	1.30	
19	0.51	0.30	6.00	16.00	352.04	70.00	22.30	7.05	2.80	1.42	1.23	1.30	
20	0.54	0.30	6.42	66.20	347.76	79.50	26.50	7.05	2.80	1.42	1.23	1.30	
21	0.54	0.30	5.60	92.50	255.32	103.06	27.20	7.05	2.65	1.42	1.16	1.30	
22	0.57	0.30	77.00	85.50	166.81	163.03	24.40	7.26	2.65	1.30	1.16	1.30	
23	0.57	0.30	86.00	78.50	174.55	154.34	23.70	7.05	2.50	1.30	1.16	1.23	
24	0.57	0.30	58.55	68.50	290.81	95.08	24.40	6.84	2.50	1.30	1.16	1.23	
25	0.60	0.27	35.80	70.00	376.51	102.52	21.64	6.42	2.50	1.30	1.16	1.23	
26	0.60	0.27	24.40	83.00	375.62	146.28	19.99	6.21	2.38	1.30	1.23	1.23	
27	0.60	0.15	18.10	65.30	262.37	179.96	17.50	5.80	2.38	1.30	1.30	1.23	
28	0.60	0.15	15.44	52.25	195.80	161.78	15.72	5.20	2.38	1.30	1.30	1.23	
29	0.60	0.74	11.38	39.10	126.88	131.01	14.88	4.80	2.26	1.30	1.30	1.23	
30	0.60	1.30	22.30	34.60	103.06	104.68	14.04	4.60	2.26	1.30		1.23	
31		1.30		43.35	84.00		13.20		2.14	1.30		1.23	
TOTAL	16.38	19.99	455.09	1241.39	4202.35	4855.38	946.64	255.32	98.95	49.18	36.37	39.91	12216.95 CMSDAY
MEAN	0.55	0.64	15.17	40.04	135.56	161.85	30.54	8.51	3.19	1.59	1.25	1.29	33.38 CMS
MAX	0.81	1.42	86.00	92.50	376.51	443.03	82.50	12.68	4.40	2.14	1.30	1.42	443.03 CMS
MIN	0.48	0.15	1.16	10.86	18.40	64.85	13.20	4.60	2.14	1.30	1.16	1.23	0.15 CMS
RUNOFF	1.415	1.727	39.320	107.256	363.083	419.505	81.790	22.060	8.549	4.249	3.142	3.448	1055.545 MCM

MOMENTARY PEAK 444.81 CMS, AT 7.69 M (A.D), AT 15.00 HOURS, ON SEP 12, 1987
RUNOFF YIELD 10.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 140.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

LAM CHAO AT BAN WANG TAKU, CHAIYAPHUM (E.73)

LOCATION — LAT. 15°-57'-02" N., LONG. 101°-26'-46" E., ON LEFT BANK AT BAN WANG TAKU, TAMBON BAN CHIANG, AMPHOE NONG BUA DAENG, CHAIYAPHUM.

DRAINAGE AREA — 267 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 2.00 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +7.543 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 — 1984 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

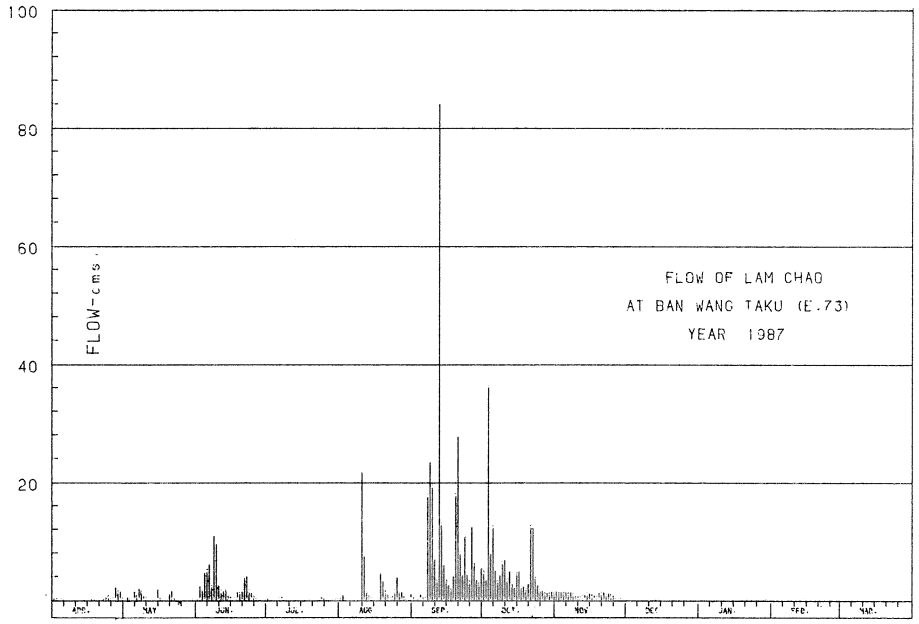
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 59 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.74	0.72	0.81	0.98	0.81	0.88	1.75	1.13	0.75	0.63	0.67	0.71	
2	0.75	1.01	1.33	0.82	1.11	0.81	1.50	1.12	0.78	0.63	0.70	0.73	
3	0.75	0.86	1.28	0.78	0.83	0.91	4.27	1.10	0.75	0.62	0.70	0.73	
4	0.76	0.84	1.68	0.74	0.78	1.00	2.06	1.13	0.73	0.61	0.74	0.75	
5	0.75	1.13	1.77	0.76	0.73	0.85	2.55	1.10	0.75	0.62	0.76	0.79	
6	0.80	1.01	1.86	0.86	0.70	0.88	1.73	1.11	0.80	0.63	0.78	0.72	
7	0.76	1.24	1.39	0.87	0.68	3.01	1.51	1.09	0.80	0.61	0.76	0.73	
8	0.71	1.21	2.37	0.84	0.67	3.42	1.63	1.09	0.76	0.60	0.68	0.73	
9	0.70	0.94	2.29	0.87	0.65	3.13	1.93	0.92	0.75	0.61	0.69	0.72	
10	0.68	0.90	1.36	0.77	3.32	1.96	1.95	0.91	0.75	0.61	0.75	0.71	
11	0.61	0.74	1.22	0.75	2.01	1.53	1.55	0.90	0.75	0.62	0.77	0.68	
12	0.59	0.81	1.15	0.73	1.21	6.64	1.71	0.96	0.71	0.61	0.75	0.69	
13	0.52	0.85	1.31	0.71	0.95	2.60	1.41	0.97	0.73	0.61	0.77	0.68	
14	0.49	0.80	0.95	0.69	0.85	1.85	1.27	1.13	0.71	0.63	0.80	0.52	
15	0.46	1.22	0.90	0.68	0.80	1.53	1.71	1.04	0.76	0.62	0.77	0.51	
16	0.48	0.85	0.87	0.68	0.79	1.37	1.71	1.04	0.72	0.62	0.77	0.51	
17	0.67	0.71	0.84	0.68	0.82	1.27	1.37	0.95	0.70	0.60	0.77	0.53	
18	0.56	0.66	1.10	0.68	1.74	1.61	1.32	0.95	0.70	0.59	0.77	0.53	
19	0.54	0.64	1.15	0.66	1.49	3.02	1.28	1.08	0.68	0.59	0.76	0.51	
20	0.53	1.14	1.12	0.66	1.18	3.72	1.40	1.13	0.65	0.59	0.74	0.52	
21	0.54	1.16	1.63	0.70	1.00	2.11	2.56	1.09	0.65	0.59	0.71	0.58	
22	0.65	0.82	1.61	0.66	0.88	1.62	2.51	1.07	0.65	0.58	0.71	0.62	
23	0.83	0.70	1.23	0.65	0.91	2.40	1.60	1.05	0.64	0.57	0.72	0.61	
24	0.97	0.67	1.07	0.84	1.23	1.64	1.36	1.05	0.64	0.57	0.73	0.61	
25	0.85	0.64	0.98	0.73	1.58	1.51	1.25	0.95	0.63	0.56	0.71	0.63	
26	0.84	0.66	0.84	0.67	1.23	2.52	1.17	0.84	0.63	0.60	0.66	0.63	
27	1.29	0.61	0.83	0.66	1.10	1.91	1.13	0.85	0.62	0.59	0.64	0.64	
28	1.21	0.59	0.81	0.65	0.94	1.52	1.07	0.80	0.63	0.62	0.65	0.65	
29	1.13	0.60	0.78	0.63	0.86	1.45	1.11	0.75	0.63	0.65	0.71	0.63	
30	0.87	0.80	0.77	0.74	0.90	1.78	1.12	0.75	0.65	0.63		0.62	
31		0.67		0.75	1.02		1.11		0.65	0.64		0.59	
MEAN	0.73	0.85	1.24	0.74	1.09	2.02	1.66	1.00	0.70	0.61	0.73	0.64	
MAX	1.29	1.24	2.37	0.98	3.32	6.64	4.27	1.13	0.80	0.65	0.80	0.79	6.64
MIN	0.46	0.59	0.77	0.63	0.65	0.81	1.07	0.75	0.62	0.56	0.64	0.51	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.33 M (A.D), AT 15.00 HOURS, ON SEP 12, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 11.57 M (A.D)
RIGHT BANK ELEVATION 8.17 M (A.D), DRAINAGE AREA 267 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.31	0.28	0.42	0.84	0.42	0.56	5.20	1.42	0.33	0.18	0.22	0.26	
2	0.33	0.94	2.35	0.44	1.34	0.42	3.30	1.38	0.37	0.18	0.25	0.30	
3	0.33	0.52	2.10	0.37	0.46	0.63	36.59	1.30	0.33	0.17	0.25	0.30	
4	0.34	0.48	4.64	0.31	0.37	0.90	7.84	1.42	0.30	0.16	0.31	0.33	
5	0.33	1.42	5.36	0.34	0.30	0.50	12.70	1.30	0.33	0.17	0.34	0.39	
6	0.40	0.94	6.08	0.52	0.25	0.56	5.04	1.34	0.40	0.18	0.37	0.28	
7	0.34	1.90	2.65	0.54	0.23	18.03	3.37	1.26	0.40	0.16	0.34	0.30	
8	0.26	1.75	10.90	0.48	0.22	23.38	4.24	1.26	0.34	0.15	0.23	0.30	
9	0.25	0.72	10.10	0.54	0.20	19.59	6.67	0.66	0.33	0.16	0.24	0.28	
10	0.23	0.60	2.50	0.36	22.06	6.94	6.85	0.63	0.33	0.16	0.33	0.26	
11	0.16	0.31	1.80	0.33	7.39	3.51	3.65	0.60	0.33	0.17	0.36	0.23	
12	0.14	0.42	1.50	0.30	1.75	84.04	4.88	0.78	0.26	0.16	0.33	0.24	
13	0.07	0.50	2.25	0.26	0.75	13.20	2.76	0.81	0.30	0.16	0.36	0.23	
14	0.05	0.40	0.75	0.24	0.50	6.00	2.05	1.42	0.26	0.18	0.40	0.07	
15	0.03	1.80	0.60	0.23	0.40	3.51	4.88	1.06	0.34	0.17	0.36	0.06	
16	0.04	0.50	0.54	0.23	0.39	2.55	4.88	1.06	0.28	0.17	0.36	0.06	
17	0.22	0.26	0.48	0.23	0.44	2.05	2.55	0.75	0.25	0.15	0.36	0.08	
18	0.11	0.21	1.30	0.23	5.12	4.08	2.30	0.75	0.25	0.14	0.36	0.08	
19	0.09	0.19	1.50	0.21	3.24	18.16	2.10	1.22	0.23	0.14	0.34	0.06	
20	0.08	1.46	1.38	0.21	1.62	27.70	2.70	1.42	0.20	0.14	0.31	0.07	
21	0.09	1.54	4.24	0.25	0.90	8.30	12.80	1.26	0.20	0.14	0.26	0.13	
22	0.20	0.44	4.08	0.21	0.56	4.16	12.30	1.18	0.20	0.13	0.26	0.17	
23	0.46	0.25	1.85	0.20	0.63	11.20	4.00	1.10	0.19	0.12	0.28	0.16	
24	0.81	0.22	1.18	0.48	1.85	4.32	2.50	1.10	0.19	0.12	0.30	0.16	
25	0.50	0.19	0.84	0.30	3.86	3.37	1.95	0.75	0.18	0.11	0.26	0.18	
26	0.48	0.21	0.48	0.22	1.85	12.40	1.58	0.48	0.18	0.15	0.21	0.18	
27	2.15	0.16	0.46	0.21	1.30	6.49	1.42	0.50	0.17	0.14	0.19	0.19	
28	1.75	0.14	0.42	0.20	0.72	3.44	1.18	0.40	0.18	0.17	0.20	0.20	
29	1.42	0.15	0.37	0.18	0.52	3.00	1.34	0.33	0.18	0.20	0.26	0.18	
30	0.54	0.40	0.36	0.31	0.60	5.44	1.38	0.33	0.20	0.18		0.17	
31		0.22		0.33	0.98		1.34		0.20	0.19		0.14	
TOTAL	12.51	19.52	73.48	10.10	61.22	298.43	166.34	29.27	8.23	4.90	8.64	6.04	698.68 CMSDAY
MEAN	0.42	0.63	2.45	0.33	1.97	9.95	5.37	0.98	0.27	0.16	0.30	0.19	1.91 CMS
MAX	2.15	1.90	10.90	0.84	22.06	84.04	36.59	1.42	0.40	0.20	0.40	0.39	84.04 CMS
MIN	0.03	0.14	0.36	0.18	0.20	0.42	1.18	0.33	0.17	0.11	0.19	0.06	0.03 CMS
RUNOFF	1.081	1.687	6.349	0.873	5.289	25.784	14.372	2.529	0.711	0.423	0.746	0.522	60.366 MCM

MOMENTARY PEAK 100.87 CMS, AT 7.33 M (A.D), AT 15.00 HOURS, ON SEP 12, 1987

RUNOFF YIELD 7.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 377.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

LAM PAO AT BAN NONG MUANG, KALASIN (E.75)

LOCATION — LAT. 16°-34'-36" N., LONG. 103°-26'-32" E., ON LEFT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM LAM PAO DAMSITE, TAMBON LAM PAO, AMPHOE MUANG, KALASIN.

DRAINAGE AREA — 6,054 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +138.02 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK INFRONT OF THE STATION OFFICE.

ELEVATION — B.M.1=+149.762 M.(M.S.L.),B.M.2=+149.759 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 — 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

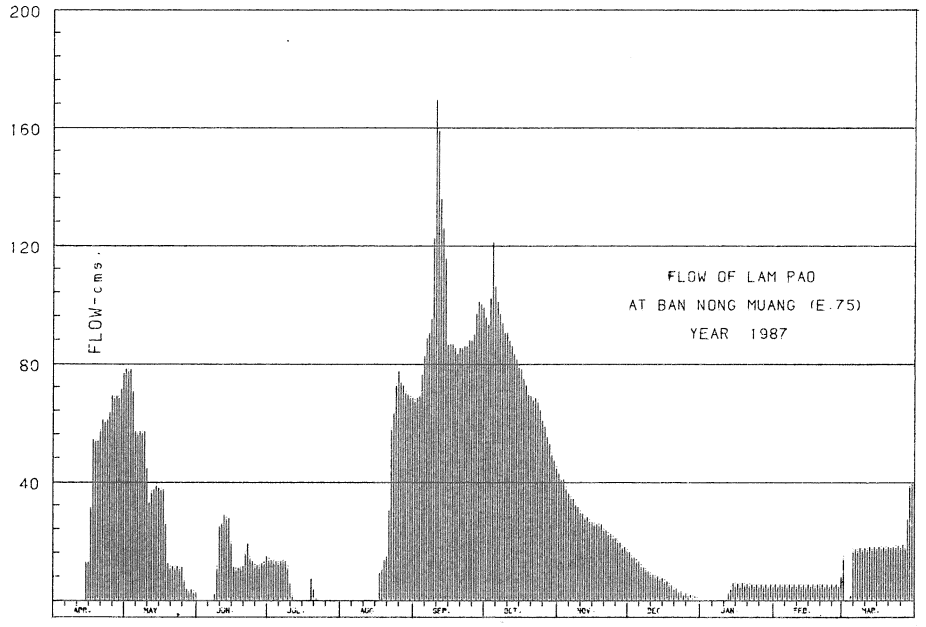
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STREAM GAGING BEGAN ON APR.14,1987. STAGE-DISCHARGE RELATION DEFINED BY 169 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	140.82	138.80	139.50	138.79	140.65	141.10	140.19	139.56	138.92	139.21	139.52	
2	*******	140.82	138.81	139.48	138.84	140.66	141.05	140.16	139.53	138.92	139.21	138.89	
3	*******	140.82	138.81	139.48	138.83	140.68	141.20	140.15	139.51	138.89	139.21	138.81	
4	*******	140.71	138.80	139.47	138.83	140.79	141.46	140.10	139.49	138.86	139.21	139.01	
5	*******	140.46	138.78	139.47	138.82	140.90	141.26	140.05	139.47	138.83	139.21	139.59	
6	*******	140.45	138.81	139.47	138.80	140.98	141.17	140.03	139.44	138.83	139.21	139.59	
7	*******	140.46	138.79	139.48	138.79	141.02	141.12	140.01	139.41	138.82	139.21	139.59	
8	*******	140.46	139.04	139.47	138.78	141.08	141.06	139.98	139.40	138.80	139.21	139.60	
9	*******	140.46	139.42	139.42	138.78	141.49	141.02	139.95	139.37	138.81	139.21	139.60	
10	*******	140.24	139.79	139.22	138.78	142.12	141.01	139.92	139.35	138.81	139.21	139.60	
11	*******	139.98	139.83	139.07	138.79	141.99	140.98	139.90	139.33	138.81	139.21	139.60	
12	*******	140.07	139.89	138.83	138.82	141.67	140.94	139.88	139.32	139.06	139.21	139.61	
13	*******	140.08	139.87	138.82	138.82	141.54	140.91	139.87	139.31	139.19	139.21	139.61	
14	139.46	140.12	139.86	138.81	138.80	141.38	140.87	139.85	139.30	139.23	139.21	139.61	
15	139.46	140.09	139.66	138.81	138.79	140.96	140.84	139.83	139.29	139.23	139.21	139.61	
16	139.96	140.09	139.41	138.83	138.79	140.95	140.82	139.82	139.27	139.22	139.21	139.61	
17	140.41	140.08	139.40	138.83	139.34	140.96	140.78	139.81	139.25	139.22	139.21	139.61	
18	140.41	139.83	139.40	138.93	139.40	140.93	140.73	139.81	139.23	139.23	139.21	139.61	
19	140.40	139.45	139.41	139.30	139.48	140.91	140.69	139.81	139.20	139.23	139.21	139.61	
20	140.47	139.42	139.42	139.13	139.51	140.93	140.67	139.77	139.17	139.22	139.21	139.61	
21	140.53	139.42	139.56	138.96	139.92	140.94	140.66	139.76	139.15	139.22	139.21	139.62	
22	140.53	139.42	139.64	138.88	140.48	140.94	140.66	139.74	139.13	139.21	139.21	139.61	
23	140.53	139.42	139.52	138.84	140.57	140.95	140.65	139.73	139.11	139.21	139.21	139.62	
24	140.59	139.41	139.47	138.81	140.74	140.97	140.59	139.71	139.09	139.21	139.21	139.62	
25	140.67	139.41	139.44	138.82	140.81	140.98	140.54	139.69	139.07	139.21	139.21	139.62	
26	140.67	139.29	139.43	138.82	140.76	141.00	140.49	139.67	139.06	139.21	139.21	139.63	
27	140.67	139.14	139.43	138.81	140.73	141.12	140.44	139.65	139.03	139.21	139.21	139.62	
28	140.67	139.13	139.45	138.81	140.70	141.17	140.38	139.62	139.01	139.21	139.21	139.85	
29	140.71	139.13	139.46	138.80	140.68	141.17	140.33	139.61	139.00	139.21	139.30	140.12	
30	140.81	139.12	139.52	138.79	140.67	141.14	140.28	139.59	138.98	139.21		140.12	
31		139.09		138.79	140.66		140.24		138.95	139.21		140.13	
MEAN	*******	139.90	139.36	139.06	139.53	141.10	140.80	139.86	139.25	139.08	139.21	139.60	
MAX	140.81	140.82	139.89	139.50	140.81	142.12	141.46	140.19	139.56	139.23	139.30	140.13	142.12
MIN	*******	139.09	138.78	138.79	138.78	140.65	140.24	139.59	138.95	138.80	139.21	138.81	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 142.12 M (MSL), AT 15.00 HOURS, ON SEP 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 138.02 M (MSL), RIVER BED 138.83 M (MSL)
LEFT BANK ELEVATION 149.73 M (MSL)
RIGHT BANK ELEVATION 149.28 M (MSL), DRAINAGE AREA 6054 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	78.30	0.00	14.30	0.00	68.00	96.50	43.00	16.40	0.30	5.48	15.00	
2	*******	78.30	0.00	13.64	0.00	68.60	93.25	41.50	15.35	0.30	5.48	0.00	
3	*******	78.30	0.00	13.64	0.00	69.80	103.00	41.00	14.65	0.00	5.48	0.00	
4	*******	71.60	0.00	13.31	0.00	76.40	121.20	38.50	13.97	0.00	5.48	1.65	
5	*******	57.30	0.00	13.31	0.00	83.50	107.20	36.25	13.31	0.00	5.48	17.45	
6	*******	56.75	0.00	13.31	0.00	88.70	101.05	35.35	12.32	0.00	5.48	17.45	
7	*******	57.30	0.00	13.64	0.00	91.30	97.80	34.45	11.33	0.00	5.48	17.45	
8	*******	57.30	2.10	13.31	0.00	95.20	93.90	33.10	11.00	0.00	5.48	17.80	
9	*******	57.30	11.66	11.66	0.00	123.30	91.30	31.75	10.10	0.00	5.48	17.80	
10	*******	45.50	25.10	5.76	0.00	169.50	90.65	30.40	9.50	0.00	5.48	17.80	
11	*******	33.10	26.70	2.55	0.00	159.75	88.70	29.50	8.90	0.00	5.48	17.80	
12	*******	37.15	29.10	0.00	0.00	135.90	86.10	28.70	8.60	2.40	5.48	18.17	
13	*******	37.60	28.30	0.00	0.00	126.80	84.15	28.30	8.30	4.98	5.48	18.17	
14	12.98	39.50	27.90	0.00	0.00	115.60	81.55	27.50	8.00	6.04	5.48	18.17	
15	12.98	38.05	20.02	0.00	0.00	87.40	79.60	26.70	7.72	6.04	5.48	18.17	
16	32.20	38.05	11.33	0.00	0.00	86.75	78.30	26.30	7.16	5.76	5.48	18.17	
17	54.55	37.60	11.00	0.00	9.20	87.40	75.80	25.90	6.60	5.76	5.48	18.17	
18	54.55	26.70	11.00	0.45	11.00	85.45	72.80	25.90	6.04	6.04	5.48	18.17	
19	54.00	12.65	11.33	8.00	13.64	84.15	70.40	25.90	5.20	6.04	5.48	18.17	
20	57.85	11.66	11.66	3.66	14.65	85.45	69.20	24.30	4.54	5.76	5.48	18.17	
21	61.15	11.66	16.40	0.90	30.40	86.10	68.60	23.90	4.10	5.76	5.48	18.54	
22	61.15	11.66	19.28	0.00	58.40	86.10	68.60	23.10	3.66	5.48	5.48	18.17	
23	61.15	11.66	15.00	0.00	63.35	86.75	68.00	22.70	3.22	5.48	5.48	18.54	
24	64.45	11.33	13.31	0.00	73.40	88.05	64.45	21.90	2.85	5.48	5.48	18.54	
25	69.20	11.33	12.32	0.00	77.65	88.70	61.70	21.13	2.55	5.48	5.48	18.54	
26	69.20	7.72	11.99	0.00	74.60	90.00	58.95	20.39	2.40	5.48	5.48	18.91	
27	69.20	3.88	11.99	0.00	72.80	97.80	56.20	19.65	1.95	5.48	5.48	18.54	
28	69.20	3.66	12.65	0.00	71.00	101.05	52.90	18.54	1.65	5.48	5.48	27.50	
29	71.60	3.66	12.98	0.00	69.80	101.05	50.15	18.17	1.50	5.48	8.00	39.50	
30	77.65	3.44	15.00	0.00	69.20	99.10	47.50	17.45	1.20	5.48		39.50	
31		2.85		0.00	68.60		45.50		0.75	5.48		40.00	
TOTAL	*******	1032.86	368.12	141.44	777.69	2913.65	2425.00	841.23	224.82	109.98	161.44	580.01	******** CMSDAY
MEAN	*******	33.32	12.27	4.56	25.09	97.12	78.23	28.04	7.25	3.55	5.57	18.71	******** CMS
MAX	77.65	78.30	29.10	14.30	77.65	169.50	121.20	43.00	16.40	6.04	8.00	40.00	169.50 CMS
MIN	*******	2.85	0.00	0.00	0.00	68.00	45.50	17.45	0.75	0.00	5.48	0.00	******** CMS
RUNOFF	*******	89.239	31.806	12.220	67.192	251.739	209.520	72.682	19.424	9.502	13.948	50.113	******** MCM

MOMENTARY PEAK 169.50 CMS, AT 142.12 M (MSL), AT 15.00 HOURS, ON SEP 10, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 28.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHI RIVER BASIN

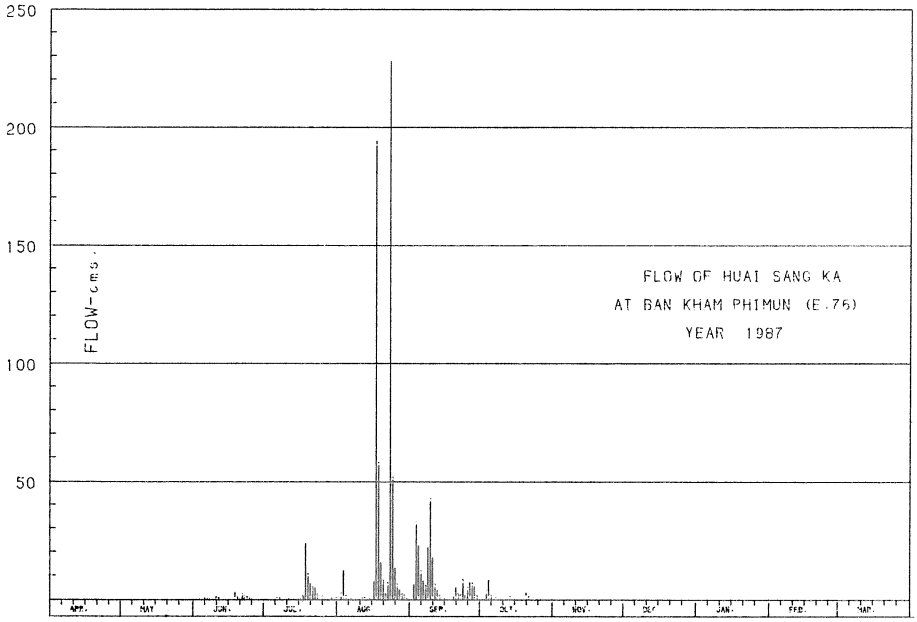
HUAI SANG KA AT BAN KHAM PHIMUN, KALASIN (E.76)

LOCATION	LAT. 16°-55'-16" N., LONG. 103°-35'-30" E., ON LEFT BANK AT THE BRIDGE ON ROAD NEAR BAN KHAM PHIMUN, TAMBON THUNG KHLONG, AMPHOE KHAM MUANG, KALASIN.
DRAINAGE AREA	163 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK DOWNSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.404 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.46 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 82 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.21	0.24	0.58	0.76	0.38	0.70	0.53	0.40	0.31	0.28	0.20	
2	0.20	0.21	0.55	0.64	1.00	1.31	0.75	0.56	0.40	0.31	0.27	0.20	
3	0.19	0.21	0.61	0.55	1.77	3.24	1.10	0.55	0.40	0.31	0.25	0.26	
4	0.20	0.21	0.64	0.58	0.87	2.52	1.47	0.54	0.40	0.30	0.25	0.26	
5	0.19	0.22	0.87	0.45	0.75	1.77	0.90	0.51	0.40	0.30	0.25	0.25	
6	0.19	0.21	0.70	0.72	0.67	1.44	0.77	0.49	0.40	0.30	0.25	0.29	
7	0.20	0.21	0.61	0.66	0.62	1.29	0.73	0.53	0.40	0.30	0.25	0.29	
8	0.20	0.21	0.60	0.60	0.46	2.47	0.62	0.59	0.40	0.30	0.25	0.28	
9	0.21	0.21	0.58	0.48	0.59	3.74	0.73	0.58	0.40	0.30	0.25	0.28	
10	0.21	0.21	0.79	0.64	0.53	2.16	0.76	0.59	0.40	0.30	0.25	0.26	
11	0.21	0.21	0.69	0.54	0.70	1.34	0.84	0.58	0.39	0.30	0.25	0.20	
12	0.20	0.21	0.54	0.49	0.70	1.10	0.76	0.57	0.32	0.24	0.25	0.20	
13	0.20	0.23	0.40	0.51	0.68	0.88	0.84	0.56	0.32	0.22	0.25	0.20	
14	0.19	0.40	0.39	0.50	0.85	0.74	0.68	0.54	0.32	0.29	0.25	0.19	
15	0.20	0.56	0.30	0.46	0.53	0.65	0.80	0.52	0.32	0.30	0.25	0.19	
16	0.20	0.49	0.21	0.61	1.48	0.62	0.75	0.49	0.33	0.29	0.23	0.19	
17	0.11	0.36	0.28	1.00	6.21	0.60	0.70	0.46	0.32	0.29	0.22	0.20	
18	0.11	0.35	1.02	2.60	4.44	0.69	0.67	0.45	0.32	0.29	0.22	0.20	
19	0.20	0.34	0.75	1.68	2.02	0.98	0.73	0.47	0.30	0.29	0.22	0.20	
20	0.20	0.28	0.72	1.35	1.47	1.21	1.01	0.47	0.30	0.29	0.21	0.20	
21	0.11	0.27	0.97	1.24	0.96	0.96	0.82	0.48	0.32	0.28	0.21	0.20	
22	0.20	0.27	0.87	1.19	1.40	0.93	0.75	0.46	0.33	0.28	0.20	0.19	
23	0.20	0.20	0.80	0.96	6.36	1.50	0.71	0.40	0.33	0.28	0.20	0.19	
24	0.20	0.20	0.73	0.84	4.19	0.89	0.68	0.40	0.33	0.27	0.20	0.21	
25	0.20	0.21	0.59	0.83	1.85	1.24	0.65	0.40	0.33	0.28	0.20	0.29	
26	0.20	0.21	0.50	0.72	1.34	1.39	0.63	0.40	0.33	0.28	0.20	0.30	
27	0.21	0.21	0.39	0.70	1.11	1.38	0.62	0.40	0.32	0.28	0.20	0.27	
28	0.21	0.21	0.24	0.65	0.97	1.24	0.58	0.40	0.32	0.28	0.20	0.26	
29	0.21	0.21	0.48	0.90	0.91	0.87	0.55	0.40	0.32	0.28	0.20	0.25	
30	0.21	0.21	0.56	0.83	0.59	0.64	0.49	0.40	0.31	0.28		0.23	
31		0.21		0.72	0.56		0.47		0.31	0.28		0.23	
MEAN	0.19	0.26	0.59	0.81	1.53	1.34	0.75	0.49	0.35	0.29	0.23	0.23	
MAX	0.21	0.56	1.02	2.60	6.36	3.74	1.47	0.59	0.40	0.31	0.28	0.30	6.36
MIN	0.11	0.20	0.21	0.45	0.46	0.38	0.47	0.40	0.30	0.22	0.20	0.19	0.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.97 M (A.D), AT 15.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.08 M (A.D)
LEFT BANK ELEVATION 6.63 M (A.D)
RIGHT BANK ELEVATION 6.45 M (A.D), DRAINAGE AREA 163 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.01	0.01	0.36	1.10	0.08	0.80	0.26	0.10	0.03	0.02	0.01	
2	0.01	0.01	0.30	0.56	2.80	6.22	1.05	0.32	0.10	0.03	0.02	0.01	
3	0.01	0.01	0.44	0.30	12.18	33.04	3.80	0.30	0.10	0.03	0.02	0.02	
4	0.01	0.01	0.56	0.36	1.72	22.68	8.21	0.28	0.10	0.02	0.02	0.02	
5	0.01	0.01	1.72	0.15	1.05	12.18	1.90	0.22	0.10	0.02	0.02	0.02	
6	0.01	0.01	0.80	0.90	0.68	7.82	1.15	0.19	0.10	0.02	0.02	0.02	
7	0.01	0.01	0.44	0.64	0.48	5.98	0.95	0.26	0.10	0.02	0.02	0.02	
8	0.01	0.01	0.40	0.40	0.16	21.98	0.48	0.38	0.10	0.02	0.02	0.02	
9	0.01	0.01	0.36	0.18	0.38	42.80	0.95	0.36	0.10	0.02	0.02	0.02	
10	0.01	0.01	1.25	0.56	0.26	17.64	1.10	0.38	0.10	0.02	0.02	0.02	
11	0.01	0.01	0.76	0.28	0.80	6.58	1.54	0.36	0.09	0.02	0.02	0.01	
12	0.01	0.01	0.28	0.19	0.80	3.80	1.10	0.34	0.04	0.01	0.02	0.01	
13	0.01	0.01	0.10	0.22	0.72	1.78	1.54	0.32	0.04	0.01	0.02	0.01	
14	0.01	0.10	0.09	0.20	1.60	1.00	0.72	0.28	0.04	0.02	0.02	0.01	
15	0.01	0.32	0.02	0.16	0.26	0.60	1.30	0.24	0.04	0.02	0.02	0.01	
16	0.01	0.19	0.01	0.44	8.34	0.48	1.05	0.19	0.04	0.02	0.01	0.01	
17	0.00	0.07	0.02	2.80	194.10	0.40	0.80	0.16	0.04	0.02	0.01	0.01	
18	0.00	0.06	3.00	23.80	58.00	0.76	0.68	0.15	0.04	0.02	0.01	0.01	
19	0.01	0.05	1.05	10.94	15.68	2.62	0.95	0.17	0.02	0.02	0.01	0.01	
20	0.01	0.02	0.90	6.70	8.21	5.02	2.90	0.17	0.02	0.02	0.01	0.01	
21	0.00	0.02	2.53	5.38	2.44	2.44	1.42	0.18	0.04	0.02	0.01	0.01	
22	0.01	0.02	1.72	4.79	7.30	2.17	1.05	0.16	0.04	0.02	0.01	0.01	
23	0.01	0.01	1.30	2.44	228.00	8.60	0.85	0.10	0.04	0.02	0.01	0.01	
24	0.01	0.01	0.95	1.54	51.80	1.84	0.72	0.10	0.04	0.02	0.01	0.01	
25	0.01	0.01	0.38	1.48	13.30	5.38	0.60	0.10	0.04	0.02	0.01	0.02	
26	0.01	0.01	0.20	0.90	6.58	7.18	0.52	0.10	0.04	0.02	0.01	0.02	
27	0.01	0.01	0.09	0.80	3.91	7.06	0.48	0.10	0.04	0.02	0.01	0.02	
28	0.01	0.01	0.01	0.60	2.53	5.38	0.36	0.10	0.04	0.02	0.01	0.02	
29	0.01	0.01	0.18	1.90	1.99	1.72	0.30	0.10	0.04	0.02	0.01	0.02	
30	0.01	0.01	0.32	1.48	0.38	0.56	0.19	0.10	0.03	0.02		0.01	
31		0.01		0.90	0.32		0.17		0.03	0.02		0.01	
TOTAL	0.27	1.07	20.19	72.35	627.87	235.79	39.63	6.47	1.83	0.63	0.44	0.44	1006.98 CMSDAY
MEAN	0.01	0.03	0.67	2.33	20.25	7.86	1.28	0.22	0.06	0.02	0.02	0.01	2.75 CMS
MAX	0.01	0.32	3.00	23.80	228.00	42.80	8.21	0.38	0.10	0.03	0.02	0.02	228.00 CMS
MIN	0.00	0.01	0.01	0.15	0.16	0.08	0.17	0.10	0.02	0.01	0.01	0.01	0.00 CMS
RUNOFF	0.023	0.092	1.744	6.251	54.248	20.372	3.424	0.559	0.158	0.054	0.038	0.038	87.003 MCM

MOMENTARY PEAK 479.60 CMS, AT 6.97 M (A.D), AT 15.00 HOURS, ON AUG 17, 1987

RUNOFF YIELD 16.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2942.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 AT ABOUT 100 METERS WEST OF BAN THA CHANG SCHOOL, AND ABOUT 30 METERS SOUTH OF PUMPING RAILWAY STATION, AMPHOE CHAKKARAT, NAKHON RATCHASIMA.

DRAINAGE AREA — 4,800 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +157.85 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE 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, 1982 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960, 1969-1971, 1982 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.

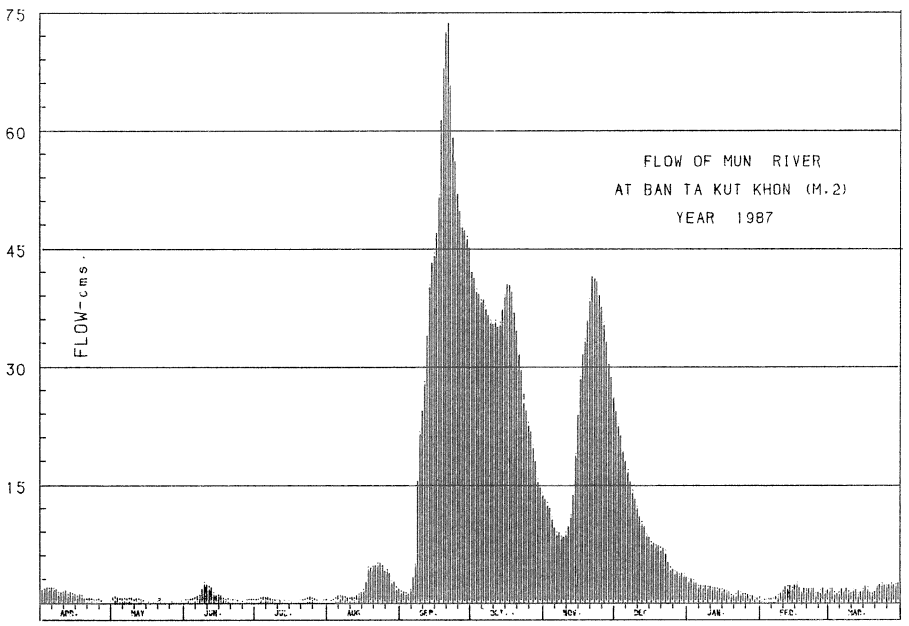
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 111 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	159.38	159.16	159.09	159.10	159.08	159.36	163.15	160.50	161.35	159.61	159.09	159.41	
2	159.41	159.19	159.10	159.11	159.04	159.33	163.03	160.47	161.24	159.61	159.09	159.41	
3	159.44	159.16	159.11	159.15	159.10	159.31	162.89	160.41	161.12	159.60	159.10	159.33	
4	159.44	159.14	159.14	159.17	159.15	159.26	162.82	160.33	160.99	159.54	159.12	159.27	
5	159.44	159.13	159.16	159.16	159.21	159.40	162.73	160.22	160.87	159.49	159.12	159.32	
6	159.43	159.14	159.20	159.16	159.23	159.63	162.73	160.18	160.79	159.49	159.13	159.40	
7	159.39	159.13	159.24	159.13	159.21	159.80	162.63	160.17	160.67	159.48	159.18	159.42	
8	159.33	159.15	159.40	159.09	159.19	160.68	162.46	160.14	160.59	159.49	159.25	159.41	
9	159.31	159.15	159.56	159.07	159.15	161.16	162.36	160.13	160.50	159.47	159.29	159.35	
10	159.33	159.10	159.51	159.07	159.14	161.36	162.27	160.18	160.43	159.47	159.37	159.30	
11	159.36	159.13	159.48	159.07	159.17	161.62	162.12	160.23	160.33	159.44	159.45	159.42	
12	159.27	159.13	159.44	159.07	159.15	161.99	162.06	160.35	160.28	159.44	159.48	159.38	
13	159.32	159.10	159.32	159.05	159.21	162.40	162.10	160.54	160.23	159.42	159.49	159.30	
14	159.30	159.05	159.22	159.05	159.27	162.57	162.20	160.95	160.16	159.40	159.44	159.32	
15	159.26	158.99	159.25	159.05	159.31	162.65	162.32	161.32	160.13	159.40	159.50	159.41	
16	159.22	158.99	159.22	159.05	159.40	162.80	162.40	161.66	160.08	159.37	159.56	159.47	
17	159.25	158.99	159.15	159.05	159.55	163.09	162.42	161.84	160.06	159.37	159.43	159.45	
18	159.24	158.97	159.11	159.06	159.76	163.63	162.34	161.97	160.04	159.33	159.38	159.30	
19	159.12	159.00	159.13	159.09	159.75	164.02	162.20	162.11	160.03	159.26	159.41	159.29	
20	159.12	159.03	159.09	159.10	159.77	164.25	162.03	162.29	160.01	159.21	159.40	159.33	
21	159.14	159.04	159.10	159.10	159.78	164.34	161.86	162.46	160.00	159.28	159.40	159.51	
22	159.13	159.05	159.10	159.11	159.81	164.28	161.71	162.47	159.97	159.35	159.41	159.51	
23	159.09	159.04	159.06	159.14	159.81	164.20	161.54	162.42	159.82	159.32	159.41	159.54	
24	159.10	159.03	159.04	159.18	159.78	164.05	161.36	162.34	159.76	159.28	159.29	159.49	
25	159.12	159.03	159.01	159.15	159.71	163.87	161.25	162.22	159.73	159.28	159.31	159.50	
26	159.05	159.03	159.03	159.12	159.73	163.72	161.16	162.10	159.71	159.25	159.38	159.50	
27	159.02	158.99	159.09	159.08	159.68	163.61	161.03	161.94	159.70	159.21	159.42	159.54	
28	159.01	159.00	159.11	159.03	159.58	163.55	160.87	161.79	159.67	159.21	159.36	159.50	
29	159.01	159.00	159.11	159.00	159.56	163.49	160.70	161.65	159.68	159.16	159.37	159.52	
30	159.04	159.05	159.10	159.07	159.46	163.37	160.61	161.50	159.68	159.13		159.54	
31		159.07		159.10	159.40		160.57		159.63	159.18		159.54	
MEAN	159.24	159.07	159.19	159.09	159.42	162.23	162.00	161.23	160.23	159.37	159.33	159.42	
MAX	159.44	159.19	159.56	159.18	159.81	164.34	163.15	162.47	161.35	159.61	159.56	159.54	164.34
MIN	159.01	158.97	159.01	159.00	159.04	159.26	160.57	160.13	159.63	159.13	159.09	159.27	158.97

ANNUAL MAX MOMENTARY GAGE HEIGHT 164.35 M (MSL), AT 6.00 HOURS, ON SEP 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 157.85 M (MSL), RIVER BED 158.78 M (MSL)
LEFT BANK ELEVATION 168.41 M (MSL)
RIGHT BANK ELEVATION 168.44 M (MSL), DRAINAGE AREA 4800 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.70	0.74	0.48	0.50	0.45	1.60	42.50	13.20	24.30	3.10	0.48	1.85	
2	1.85	0.86	0.50	0.54	0.35	1.45	41.30	12.81	22.82	3.10	0.48	1.85	
3	2.00	0.74	0.54	0.70	0.50	1.35	39.95	12.03	21.26	3.00	0.50	1.45	
4	2.00	0.66	0.66	0.78	0.70	1.14	39.29	10.99	19.57	2.58	0.58	1.18	
5	2.00	0.62	0.74	0.74	0.94	1.80	38.54	9.56	18.01	2.25	0.58	1.40	
6	1.95	0.66	0.90	0.74	1.02	3.30	38.54	9.04	16.97	2.25	0.62	1.80	
7	1.75	0.62	1.06	0.62	0.94	5.00	37.74	8.91	15.41	2.20	0.82	1.90	
8	1.45	0.70	1.80	0.48	0.86	15.54	36.59	8.52	14.37	2.25	1.10	1.85	
9	1.35	0.70	2.72	0.43	0.70	21.78	35.96	8.39	13.20	2.15	1.26	1.55	
10	1.45	0.50	2.37	0.43	0.66	24.44	35.42	9.04	12.29	2.15	1.65	1.30	
11	1.60	0.62	2.20	0.43	0.78	28.20	36.02	9.69	10.99	2.00	2.05	1.90	
12	1.18	0.62	2.00	0.43	0.70	33.94	35.06	11.25	10.34	2.00	2.20	1.70	
13	1.40	0.50	1.40	0.38	0.94	40.50	35.70	13.72	9.69	1.90	2.25	1.30	
14	1.30	0.38	0.98	0.38	1.18	43.22	37.30	19.05	8.78	1.80	2.00	1.40	
15	1.14	0.24	1.10	0.38	1.35	44.53	39.22	23.88	8.39	1.80	2.30	1.85	
16	0.98	0.24	0.98	0.38	1.80	47.00	40.50	28.80	7.80	1.65	2.72	2.15	
17	1.10	0.24	0.70	0.38	2.65	51.93	40.82	31.57	7.60	1.65	1.95	2.05	
18	**1.06**	**0.21**	**0.54**	**0.40**	**4.60**	**61.34**	**39.54**	33.62	**7.40**	**1.45**	**1.70**	**1.30**	
19	0.58	0.25	0.62	0.48	4.50	68.36	37.30	35.86	7.30	1.14	1.85	1.26	
20	0.58	0.32	0.48	0.50	4.70	72.50	34.58	38.74	7.10	0.94	1.80	1.45	
21	0.66	0.35	0.50	0.50	4.80	74.12	31.88	41.46	7.00	1.22	1.80	2.37	
22	0.62	0.38	0.50	0.54	5.10	65.78	29.56	41.62	6.70	1.55	1.85	2.37	
23	0.48	0.35	0.40	0.66	5.10	59.50	27.00	40.82	5.20	1.40	1.85	2.58	
24	0.50	0.32	0.35	0.82	4.80	56.13	24.44	39.54	4.60	1.22	1.26	2.25	
25	0.58	0.32	0.28	0.70	4.10	52.40	22.95	37.62	4.30	1.22	1.35	2.30	
26	0.38	0.32	0.32	0.58	4.30	49.80	21.78	35.70	4.10	1.10	1.70	2.30	
27	0.30	0.24	0.48	0.45	3.80	48.15	20.09	33.14	4.00	0.94	1.90	2.58	
28	0.28	0.25	0.54	0.32	2.86	47.37	18.01	30.80	3.70	0.94	1.60	2.30	
29	0.28	0.25	0.54	0.25	2.72	46.63	15.80	28.65	3.80	0.74	1.65	2.44	
30	0.35	0.38	0.50	0.43	2.10	45.13	14.63	26.40	3.80	0.62		2.58	
31		0.43		0.50	1.80		14.11		3.30	0.82		2.58	
TOTAL	32.85	14.01	27.18	15.85	71.80	1113.93	1002.12	704.42	314.09	53.13	43.85	59.14	3452.37 CMSDAY
MEAN	1.09	0.45	0.91	0.51	2.32	37.13	32.33	23.48	10.13	1.71	1.51	1.91	9.43 CMS
MAX	2.00	0.86	2.72	0.82	5.10	74.12	42.50	41.62	24.30	3.10	2.72	2.58	74.12 CMS
MIN	0.28	0.21	0.28	0.25	0.35	1.14	14.11	8.39	3.30	0.62	0.48	1.18	0.21 CMS
RUNOFF	2.838	1.210	2.348	1.369	6.204	96.244	86.583	60.862	27.137	4.590	3.789	5.110	298.285 MCM

MOMENTARY PEAK 74.30 CMS, AT 164.35 M (MSL), AT 6.00 HOURS, ON SEP 21, 1987

RUNOFF YIELD 1.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 15.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

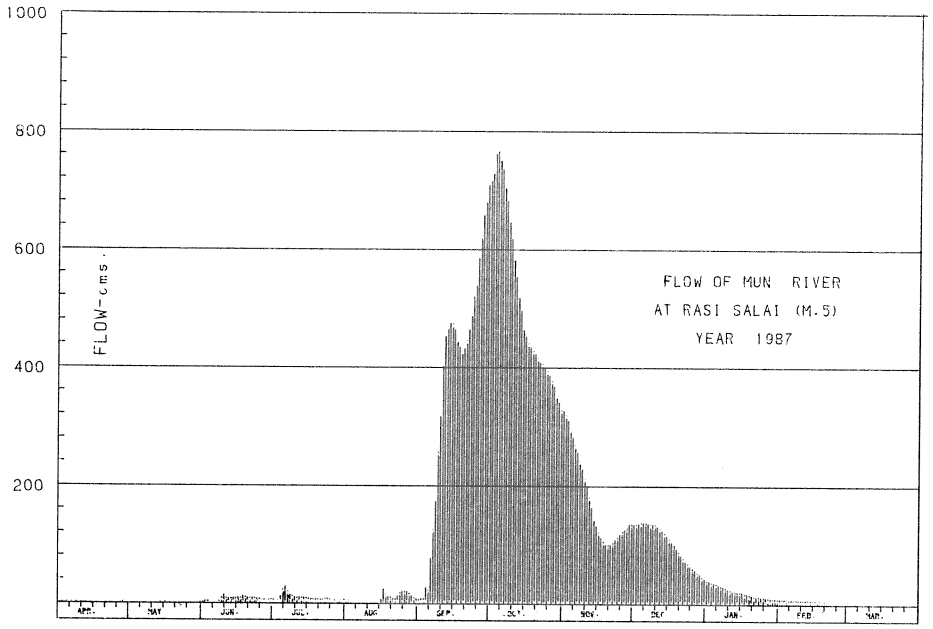
MUN RIVER AT RASI SALAI, SI SA KET (M.5)

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	+110.00 M. (M.S.L.)
BENCH MARK	B.M. OF ARMY SURVEY DEPARTMENT NO.801
LOCATION	ON LEFT BANK ABOUT 2.5 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+122.385 M. (M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1955 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 41 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	110.08	110.04	110.09	110.27	110.25	110.28	116.78	113.62	111.86	110.79	110.34	110.19	
2	110.09	110.03	110.17	110.24	110.21	110.33	116.80	113.56	111.86	110.78	110.33	110.18	
3	110.10	110.03	110.15	110.23	110.19	110.34	116.81	113.48	111.87	110.75	110.33	110.18	
4	110.10	110.07	110.12	110.43	110.16	110.63	116.80	113.36	111.89	110.74	110.34	110.17	
5	110.10	110.06	110.09	110.60	110.15	110.58	116.73	113.25	111.89	110.72	110.30	110.16	
6	110.09	110.08	110.07	110.66	110.14	111.22	116.60	113.14	111.89	110.70	110.30	110.16	
7	110.08	110.10	110.08	110.54	110.11	111.76	116.42	113.04	111.87	110.67	110.29	110.16	
8	110.07	110.07	110.17	110.46	110.10	112.25	116.23	112.91	111.86	110.66	110.30	110.15	
9	110.07	110.04	110.37	110.44	110.10	113.04	116.01	112.78	111.86	110.64	110.29	110.15	
10	110.06	110.04	110.46	110.41	110.09	114.25	115.77	112.64	111.85	110.61	110.28	110.14	
11	110.06	110.05	110.37	110.40	110.09	115.23	115.55	112.49	111.82	110.59	110.28	110.13	
12	110.05	110.09	110.34	110.40	110.08	115.54	115.31	112.32	111.78	110.56	110.28	110.13	
13	110.04	110.09	110.35	110.39	110.06	115.65	115.10	112.14	111.74	110.56	110.28	110.14	
14	110.03	110.09	110.36	110.39	110.05	115.68	114.90	111.98	111.69	110.55	110.27	110.13	
15	110.03	110.11	110.36	110.37	110.02	115.67	114.71	111.83	111.64	110.54	110.27	110.13	
16	110.03	110.09	110.38	110.35	110.41	115.61	114.59	111.71	111.59	110.53	110.27	110.13	
17	110.03	110.06	110.39	110.32	110.60	115.51	114.50	111.61	111.52	110.51	110.26	110.12	
18	110.03	110.06	110.44	110.30	110.48	115.43	114.45	111.53	111.47	110.50	110.25	110.11	
19	110.03	110.06	110.41	110.30	110.43	115.39	114.40	111.48	111.40	110.48	110.24	110.11	
20	110.02	110.06	110.38	110.30	110.41	115.41	114.36	111.47	111.34	110.46	110.23	110.10	
21	110.03	110.05	110.38	110.29	110.34	115.50	114.31	111.48	111.27	110.44	110.22	110.11	
22	110.03	110.05	110.38	110.27	110.33	115.61	114.25	111.51	111.22	110.43	110.22	110.10	
23	110.02	110.04	110.37	110.33	110.44	115.78	114.23	111.57	111.16	110.43	110.21	110.08	
24	110.01	110.03	110.34	110.35	110.52	115.93	114.19	111.61	111.12	110.42	110.20	110.09	
25	110.00	110.03	110.31	110.30	110.55	116.05	114.14	111.67	111.07	110.42	110.21	110.08	
26	110.06	110.03	110.27	110.26	110.55	116.25	114.08	111.72	111.03	110.41	110.21	110.07	
27	110.10	110.02	110.26	110.23	110.54	116.42	114.01	111.75	111.00	110.39	110.20	110.07	
28	110.12	110.03	110.26	110.20	110.50	116.56	113.94	111.79	110.94	110.38	110.20	110.07	
29	110.10	110.04	110.26	110.32	110.44	116.66	113.83	111.86	110.92	110.37	110.19	110.05	
30	110.07	110.05	110.29	110.26	110.39	116.74	113.73	111.86	110.86	110.36		110.05	
31		110.09		110.27	110.33		113.63		110.83	110.35		110.03	
MEAN	110.06	110.06	110.29	110.35	110.29	114.38	115.07	112.24	111.49	110.54	110.26	110.12	
MAX	110.12	110.11	110.46	110.66	110.60	116.74	116.81	113.62	111.89	110.79	110.34	110.19	116.81
MIN	110.00	110.02	110.07	110.20	110.02	110.28	113.63	111.47	110.83	110.35	110.19	110.03	110.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 116.82 M (MSL), AT 18.00 HOURS, ON OCT 3, 1987
ZERO GAGE AT BOTTOM ELEVATION 110.00 M (MSL), RIVER BED 109.27 M (MSL)
LEFT BANK ELEVATION 123.33 M (MSL)
RIGHT BANK ELEVATION 121.38 M (MSL), DRAINAGE AREA 44275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.6	0.8	1.8	6.2	5.7	6.5	721.6	326.6	134.4	39.2	8.2	4.3	
2	1.8	0.6	3.7	5.5	4.7	7.9	728.0	319.2	134.4	38.4	7.9	4.0	
3	2.0	0.6	3.3	5.3	4.3	8.2	767.5	309.6	135.3	36.0	7.9	4.0	
4	2.0	1.4	2.5	12.1	3.5	26.4	766.0	295.2	137.1	35.2	8.2	3.7	
5	2.0	1.2	1.8	24.0	3.3	22.6	755.5	282.0	137.1	33.6	7.0	3.5	
6	1.8	1.6	1.4	28.8	3.0	76.8	736.0	268.8	137.1	32.0	7.0	3.5	
7	1.6	2.0	1.6	19.8	2.3	125.4	709.0	256.8	135.3	29.6	6.7	3.5	
8	1.4	1.4	3.7	14.2	2.0	173.0	682.2	242.1	134.4	28.8	7.0	3.3	
9	1.4	0.8	9.1	12.8	2.0	256.8	651.4	227.8	134.4	27.2	6.7	3.3	
10	1.2	0.8	14.2	10.7	1.8	316.5	617.8	212.4	133.5	24.8	6.5	3.0	
11	1.2	1.0	9.1	10.0	1.8	407.9	587.0	197.0	130.8	23.3	6.5	2.7	
12	1.0	1.8	8.2	10.0	1.6	452.4	553.4	180.0	127.2	21.2	6.5	2.7	
13	0.8	1.8	8.5	9.7	1.2	470.5	524.0	162.0	123.6	21.2	6.5	3.0	
14	0.6	1.8	8.8	9.7	1.0	475.6	496.0	146.0	119.1	20.5	6.2	2.7	
15	0.6	2.3	8.8	9.1	0.4	473.9	469.4	131.7	114.6	19.8	6.2	2.7	
16	0.6	1.8	9.4	8.5	10.7	463.7	452.7	120.9	110.1	19.1	6.2	2.7	
17	0.6	1.2	9.7	7.6	24.0	447.6	441.0	111.9	103.8	17.7	6.0	2.5	
18	0.6	1.2	12.8	7.0	15.6	434.8	434.5	104.7	99.3	17.0	5.7	2.3	
19	0.6	1.2	10.7	7.0	12.1	428.7	428.0	100.2	93.0	15.6	5.5	2.3	
20	0.4	1.2	9.4	7.0	10.7	431.6	422.8	99.3	87.6	14.2	5.3	2.0	
21	0.6	1.0	9.4	6.7	8.2	446.0	416.3	100.2	81.3	12.8	5.0	2.3	
22	0.6	1.0	9.4	6.2	7.9	463.7	408.5	102.9	76.8	12.1	5.0	2.0	
23	0.4	0.8	9.1	7.9	12.8	492.6	405.9	108.3	71.4	12.1	4.7	1.6	
24	0.2	0.6	8.2	8.5	18.4	519.7	400.7	111.9	67.8	11.4	4.5	1.8	
25	0.0	0.6	7.3	7.0	20.5	543.0	394.2	117.3	63.3	11.4	4.7	1.6	
26	1.2	0.6	6.2	6.0	20.5	585.0	386.4	121.8	59.7	10.7	4.7	1.4	
27	2.0	0.4	6.0	5.3	19.8	623.0	377.3	124.5	57.0	9.7	4.5	1.4	
28	2.5	0.6	6.0	4.5	17.0	658.0	368.2	128.1	51.9	9.4	4.5	1.4	
29	2.0	0.8	6.0	7.6	12.8	684.8	353.9	134.4	50.2	9.1	4.3	1.0	
30	1.4	1.0	6.7	6.0	9.7	708.8	340.9	134.4	45.1	8.8		1.0	
31		1.8		6.2	7.9		327.9		42.5	8.5		0.6	
TOTAL	34.7	35.7	212.8	296.9	267.2	11231.4	16124.0	5278.0	3129.1	630.4	175.6	77.8	37493.6 CMSDAY
MEAN	1.2	1.2	7.1	9.6	8.6	374.4	520.1	175.9	100.9	20.3	6.1	2.5	102.4 CMS
MAX	2.5	2.3	14.2	28.8	24.0	708.8	767.5	326.6	137.1	39.2	8.2	4.3	767.5 CMS
MIN	0.0	0.4	1.4	4.5	0.4	6.5	327.9	99.3	42.5	8.5	4.3	0.6	0.0 CMS
RUNOFF	3.00	3.08	18.39	25.65	23.09	970.39	1393.11	456.02	270.35	54.47	15.17	6.72	3239.45 MCM

MOMENTARY PEAK 769.00 CMS, AT 116.82 M (MSL), AT 18.00 HOURS, ON OCT 3, 1987
RUNOFF YIELD 2.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

MUN RIVER AT SATUK, BURI RAM (M.6A)

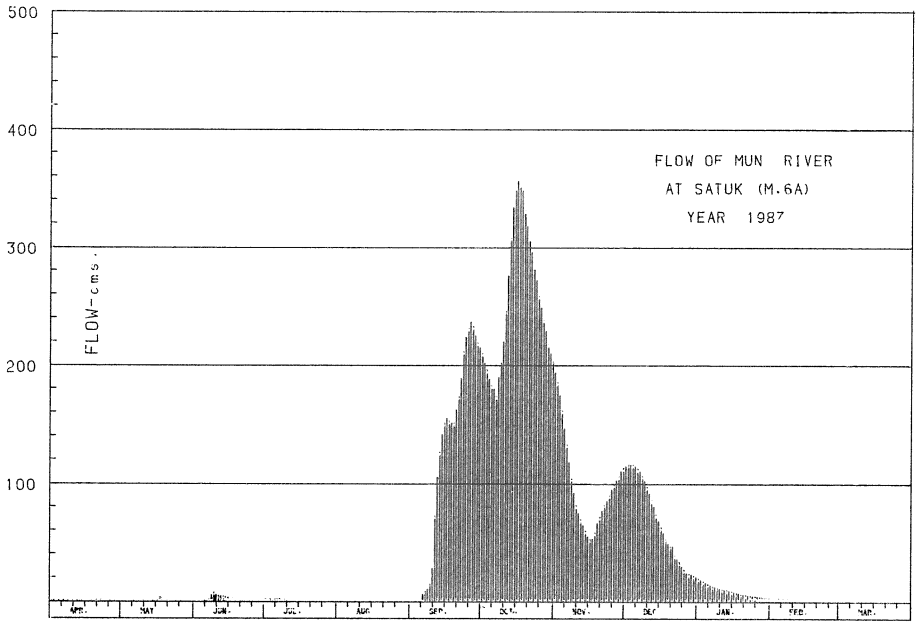
LOCATION — LAT. 15°17'44" N., LONG. 103°17'51" E., ON RIGHT BANK AT SATUK, BURI RAM.

DRAINAGE AREA	28.275 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+124.00 M. (M.S.L.)
BENCH MARK	B.M.-B.M.P.1383
LOCATION	INFRONT OF THE POST OFFICE AND ABOUT 80 METERS FROM STAFF GAGE LINE.
ELEVATION	+132.328 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	1976 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1976 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 110 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	124.51	124.46	124.44	124.60	124.46	124.38	128.20	128.04	127.05	125.35	124.69	124.54	
2	124.51	124.45	124.45	124.59	124.45	124.37	128.12	127.95	127.07	125.31	124.68	124.54	
3	124.51	124.45	124.45	124.58	124.44	124.39	128.06	127.83	127.07	125.27	124.67	124.54	
4	124.50	124.45	124.43	124.60	124.42	124.42	127.98	127.67	127.07	125.23	124.67	124.54	
5	124.50	124.44	124.43	124.61	124.42	124.58	127.92	127.48	127.05	125.19	124.66	124.54	
6	124.50	124.43	124.46	124.62	124.41	124.85	127.89	127.31	127.02	125.16	124.66	124.53	
7	124.50	124.44	124.58	124.63	124.40	124.99	127.82	127.10	126.99	125.12	124.65	124.53	
8	124.50	124.45	124.82	124.61	124.39	125.05	128.00	126.90	126.93	125.11	124.64	124.53	
9	124.49	124.45	124.94	124.59	124.40	125.20	128.12	126.73	126.87	125.08	124.65	124.53	
10	124.49	124.45	124.84	124.57	124.41	125.58	128.30	126.58	126.80	125.06	124.66	124.53	
11	124.49	124.46	124.80	124.54	124.40	126.44	128.50	126.48	126.72	125.04	124.65	124.52	
12	124.49	124.46	124.78	124.53	124.40	126.92	128.68	126.39	126.64	125.03	124.64	124.52	
13	124.48	124.46	124.77	124.52	124.41	127.22	128.84	126.31	126.56	125.02	124.63	124.52	
14	124.48	124.46	124.75	124.50	124.41	127.42	128.95	126.23	126.46	125.00	124.63	124.52	
15	124.47	124.46	124.72	124.49	124.40	127.54	129.01	126.15	126.37	124.97	124.62	124.51	
16	124.46	124.47	124.68	124.47	124.41	127.59	129.03	126.11	126.28	124.94	124.61	124.50	
17	124.46	124.48	124.68	124.46	124.45	127.56	129.02	126.12	126.20	124.90	124.61	124.49	
18	124.51	124.48	124.66	124.47	124.45	127.54	129.00	126.21	126.11	124.89	124.60	124.49	
19	124.52	124.47	124.64	124.49	124.47	127.54	128.94	126.34	126.04	124.85	124.60	124.48	
20	124.53	124.47	124.63	124.49	124.46	127.68	128.89	126.43	125.99	124.84	124.59	124.48	
21	124.53	124.46	124.61	124.47	124.46	127.82	128.84	126.51	125.99	124.83	124.59	124.48	
22	124.52	124.44	124.60	124.46	124.45	127.99	128.78	126.58	125.84	124.80	124.58	124.48	
23	124.51	124.43	124.59	124.46	124.46	128.22	128.72	126.63	125.77	124.79	124.57	124.47	
24	124.50	124.42	124.58	124.46	124.45	128.33	128.66	126.70	125.71	124.78	124.57	124.47	
25	124.50	124.41	124.56	124.46	124.44	128.39	128.59	126.77	125.62	124.77	124.56	124.46	
26	124.49	124.41	124.55	124.45	124.44	128.43	128.52	126.83	125.55	124.75	124.55	124.46	
27	124.49	124.41	124.54	124.45	124.43	128.40	128.44	126.88	125.48	124.74	124.55	124.46	
28	124.49	124.43	124.56	124.45	124.43	128.34	128.37	126.93	125.46	124.73	124.55	124.46	
29	124.48	124.43	124.57	124.44	124.42	128.29	128.28	126.99	125.45	124.72	124.55	124.46	
30	124.47	124.44	124.60	124.44	124.41	128.25	128.20	127.03	125.42	124.71		124.45	
31		124.44		124.46	124.40		128.13		125.39	124.70		124.45	
MEAN	124.50	124.45	124.62	124.51	124.43	126.79	128.48	126.81	126.29	124.96	124.62	124.50	
MAX	124.53	124.48	124.94	124.63	124.47	128.43	129.03	128.04	127.07	125.35	124.69	124.54	129.03
MIN	124.46	124.41	124.43	124.44	124.39	124.37	127.82	126.11	125.39	124.70	124.55	124.45	124.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 129.03 M (MSL), AT 7.00 HOURS, ON OCT 16, 1987
ZERO GAGE AT BOTTOM ELEVATION 124.00 M (MSL), RIVER BED 120.60 M (MSL)
LEFT BANK ELEVATION 132.52 M (MSL)
RIGHT BANK ELEVATION 132.73 M (MSL), DRAINAGE AREA 28275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.10	0.80	0.70	2.00	0.80	0.40	210.00	194.00	114.50	19.50	2.90	1.40	
2	1.10	0.75	0.75	1.90	0.75	0.35	202.00	185.50	115.90	18.30	2.80	1.40	
3	1.10	0.75	0.75	1.80	0.70	0.45	196.00	174.70	115.90	17.10	2.70	1.40	
4	1.00	0.75	0.65	2.00	0.60	0.60	188.20	161.60	115.90	15.90	2.70	1.40	
5	1.00	0.70	0.65	2.10	0.60	1.80	182.80	146.40	114.50	14.70	2.60	1.40	
6	1.00	0.65	0.80	2.20	0.55	6.00	180.10	132.80	112.40	13.80	2.60	1.30	
7	1.00	0.70	1.80	2.30	0.50	8.80	173.80	118.00	110.30	12.60	2.50	1.30	
8	1.00	0.75	5.40	2.10	0.45	10.50	190.00	104.00	106.10	12.30	2.40	1.30	
9	0.95	0.75	7.80	1.90	0.50	15.00	202.00	92.10	101.90	11.40	2.50	1.30	
10	0.95	0.75	5.80	1.70	0.55	28.20	220.00	81.60	97.00	10.80	2.60	1.30	
11	0.95	0.80	5.00	1.40	0.50	72.40	246.00	74.80	91.40	10.20	2.50	1.20	
12	0.95	0.80	4.60	1.30	0.50	105.40	276.00	69.40	85.80	9.90	2.40	1.20	
13	0.90	0.80	4.40	1.20	0.55	126.40	308.00	64.60	80.20	9.60	2.30	1.20	
14	0.90	0.80	4.00	1.00	0.55	141.60	334.00	59.80	73.60	9.00	2.30	1.20	
15	0.85	0.80	3.40	0.95	0.50	151.20	350.80	55.00	68.20	8.40	2.20	1.10	
16	0.80	0.85	2.80	0.85	0.55	155.20	356.40	52.60	62.80	7.80	2.10	1.00	
17	0.80	0.90	2.80	0.80	0.75	152.80	353.60	53.20	58.00	7.00	2.10	0.95	
18	1.10	0.90	2.60	0.85	0.75	151.20	348.00	58.60	52.60	6.80	2.00	0.95	
19	1.20	0.85	2.40	0.95	0.85	151.20	331.20	66.40	49.00	6.00	2.00	0.90	
20	1.30	0.85	2.30	0.95	0.80	162.40	318.00	71.80	46.50	5.80	1.90	0.90	
21	1.30	0.80	2.10	0.85	0.80	173.80	308.00	76.70	46.50	5.60	1.90	0.90	
22	1.20	0.70	2.00	0.80	0.75	189.10	296.00	81.60	39.00	5.00	1.80	0.90	
23	1.10	0.65	1.90	0.80	0.80	212.00	284.00	85.10	35.80	4.80	1.70	0.85	
24	1.00	0.60	1.80	0.80	0.75	223.90	272.00	90.00	33.40	4.60	1.70	0.85	
25	1.00	0.55	1.60	0.80	0.70	231.70	258.60	94.90	29.80	4.40	1.60	0.80	
26	0.95	0.55	1.50	0.75	0.70	236.90	248.80	99.10	27.00	4.00	1.50	0.80	
27	0.95	0.55	1.40	0.75	0.65	233.00	238.20	102.60	24.20	3.80	1.50	0.80	
28	0.95	0.65	1.60	0.75	0.65	225.20	229.10	106.10	23.40	3.60	1.50	0.80	
29	0.90	0.65	1.70	0.70	0.60	219.00	218.00	110.30	23.00	3.40	1.50	0.80	
30	0.85	0.70	2.00	0.70	0.55	215.00	210.00	113.10	21.80	3.20		0.75	
31		0.70		0.80	0.50		203.00		20.70	3.00		0.75	
TOTAL	30.15	22.80	77.00	38.75	19.75	3601.50	7932.60	2976.40	2097.10	272.30	62.80	33.10	17164.25 CMSDAY
MEAN	1.00	0.74	2.57	1.25	0.64	120.05	255.89	99.21	67.65	8.78	2.17	1.07	46.90 CMS
MAX	1.30	0.90	7.80	2.30	0.85	236.90	356.40	194.00	115.90	19.50	2.90	1.40	356.40 CMS
MIN	0.80	0.55	0.65	0.70	0.45	0.35	173.80	52.60	20.70	3.00	1.50	0.75	0.35 CMS
RUNOFF	2.605	1.970	6.653	3.348	1.706	311.170	685.377	257.161	181.189	23.527	5.426	2.860	1482.991 MCM

MOMENTARY PEAK 356.40 CMS, AT 129.03 M (MSL), AT 7.00 HOURS, ON OCT 16, 1987
RUNOFF YIELD 1.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 12.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

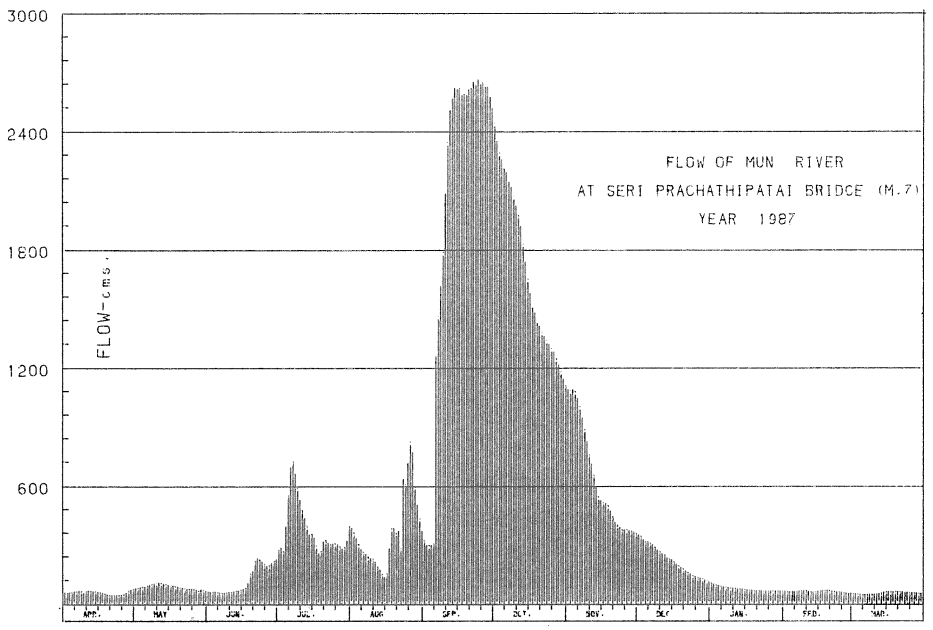
MUN RIVER AT SERI PRACHATHIPATAI BRIDGE, UBON RATCHATHANI (M.7)

LOCATION	LAT. 15°-13'-17" N., LONG. 104°-51'-39" E., ON LEFT BANK AT THE SERI PRACHATHIPATAI, AMPHOE MUANG, UBON RATCHATHANI.
DRAINAGE AREA	106,673 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+105.00 M.(M.S.L.)
BENCH MARK	B.M.-DEPARTMENT OF LANDS.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF 200 YEARS KRUNG RATANAKOSIN BRIDGE.
ELEVATION	+117.652 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 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1944 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1956 - 1958, 1964 - 1981, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1956 - 1958, 1964 - 1981, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	106.61	106.72	106.65	107.36	107.67	109.36	111.82	109.29	107.58	106.82	106.66	106.59	
2	106.61	106.73	106.63	107.39	107.61	109.30	111.67	109.28	107.56	106.81	106.65	106.59	
3	106.62	106.74	106.64	107.34	107.53	109.30	111.57	109.29	107.51	106.79	106.65	106.58	
4	106.63	106.75	106.64	107.69	107.44	109.30	111.51	109.27	107.48	106.78	106.65	106.58	
5	106.65	106.75	106.63	108.09	107.37	109.32	111.46	109.20	107.48	106.76	106.65	106.57	
6	106.65	106.78	106.62	108.42	107.33	109.63	111.40	109.11	107.46	106.75	106.65	106.57	
7	106.66	106.79	106.61	108.49	107.30	110.02	111.34	108.99	107.44	106.75	106.66	106.57	
8	106.66	106.80	106.61	108.35	107.26	110.32	111.26	108.86	107.40	106.74	106.67	106.58	
9	106.68	106.81	106.62	108.18	107.24	110.65	111.18	108.72	107.36	106.73	106.67	106.58	
10	106.67	106.83	106.63	108.03	107.23	111.20	111.09	108.57	107.34	106.73	106.67	106.58	
11	106.67	106.83	106.64	107.90	107.19	111.66	111.00	108.46	107.31	106.72	106.65	106.59	
12	106.66	106.82	106.65	107.80	107.12	111.93	110.90	108.33	107.29	106.71	106.64	106.59	
13	106.65	106.81	106.66	107.70	107.07	112.06	110.73	108.19	107.25	106.71	106.63	106.61	
14	106.65	106.80	106.67	107.58	106.99	112.12	110.56	108.07	107.23	106.71	106.65	106.63	
15	106.64	106.79	106.69	107.59	106.93	112.14	110.39	108.02	107.22	106.70	106.65	106.65	
16	106.63	106.79	106.71	107.54	107.00	112.12	110.25	108.00	107.19	106.69	106.67	106.65	
17	106.61	106.77	106.73	107.42	107.38	112.09	110.14	107.99	107.16	106.68	106.67	106.65	
18	106.59	106.76	106.82	107.31	107.67	112.07	110.06	107.96	107.13	106.68	106.67	106.65	
19	106.57	106.75	107.00	107.34	107.67	112.09	109.99	107.89	107.11	106.67	106.68	106.65	
20	106.56	106.74	107.04	107.48	107.60	112.11	109.93	107.82	107.08	106.67	106.67	106.65	
21	106.55	106.73	107.20	107.50	107.63	112.15	109.87	107.75	107.05	106.67	106.66	106.64	
22	106.55	106.72	107.24	107.46	109.24	112.17	109.83	107.71	107.02	106.66	106.65	106.64	
23	106.55	106.71	107.22	107.44	109.81	112.17	109.79	107.68	107.00	106.66	106.64	106.63	
24	106.56	106.71	107.19	107.45	109.80	112.19	109.75	107.65	106.96	106.66	106.64	106.63	
25	106.56	106.71	107.16	107.45	109.84	112.18	109.71	107.65	106.95	106.66	106.63	106.62	
26	106.58	106.71	107.13	107.44	109.88	112.17	109.68	107.65	106.93	106.66	106.62	106.62	
27	106.61	106.69	107.14	107.41	109.86	112.16	109.61	107.64	106.92	106.66	106.61	106.61	
28	106.67	106.67	107.17	107.38	109.79	112.13	109.55	107.63	106.90	106.66	106.60	106.61	
29	106.69	106.70	107.20	107.40	109.70	112.07	109.48	107.62	106.88	106.66	106.60	106.60	
30	106.71	106.68	107.22	107.49	109.59	111.95	109.40	107.60	106.87	106.66		106.60	
31		106.66		107.70	109.47		109.33		106.85	106.66		106.60	
MEAN	106.62	106.75	106.86	107.65	108.10	111.34	110.46	108.26	107.19	106.71	106.65	106.61	
MAX	106.71	106.83	107.24	108.49	109.88	112.19	111.82	109.29	107.58	106.82	106.68	106.65	112.19
MIN	106.55	106.66	106.61	107.31	106.93	109.30	109.33	107.60	106.85	106.66	106.60	106.57	106.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 112.19 M (MSL), AT 1.00 HOURS, ON SEP 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 105.00 M (MSL), RIVER BED 101.77 M (MSL)
LEFT BANK ELEVATION 120.07 M (MSL)
RIGHT BANK ELEVATION 115.43 M (MSL), DRAINAGE AREA 106673 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	57.0	80.4	65.0	276.0	386.6	324.0	2442.0	1091.2	353.0	107.4	67.0	53.0	
2	57.0	83.1	61.0	286.5	363.8	300.0	2352.0	1086.4	346.0	104.7	65.0	53.0	
3	59.0	85.8	63.0	269.0	335.5	300.0	2292.6	1091.2	328.5	99.3	65.0	51.0	
4	61.0	88.5	63.0	394.2	304.0	300.0	2257.8	1081.6	318.0	96.6	65.0	51.0	
5	65.0	88.5	61.0	554.0	279.5	308.0	2229.2	1048.0	318.0	91.2	65.0	49.0	
6	65.0	96.6	59.0	694.8	265.5	1257.6	2195.0	1004.8	311.0	88.5	65.0	49.0	
7	67.0	99.3	57.0	725.6	255.0	1460.4	2162.0	947.4	304.0	88.5	67.0	49.0	
8	67.0	102.0	57.0	664.0	241.0	1616.4	2118.0	888.4	290.0	85.8	69.0	51.0	
9	71.0	104.7	59.0	590.0	234.0	1788.0	2074.0	826.8	276.0	83.1	69.0	51.0	
10	69.0	110.1	61.0	530.0	230.5	2085.0	2024.5	760.8	269.0	83.1	69.0	51.0	
11	69.0	110.1	63.0	478.0	216.5	2346.0	1975.0	712.4	258.5	80.4	65.0	53.0	
12	67.0	107.4	65.0	438.0	192.0	2508.0	1920.0	655.2	251.5	77.7	63.0	53.0	
13	65.0	104.7	67.0	398.0	176.3	2586.0	1829.9	594.0	237.5	77.7	61.0	57.0	
14	65.0	102.0	69.0	353.0	153.3	2622.0	1741.2	546.0	230.5	77.7	65.0	61.0	
15	63.0	99.3	73.0	356.5	137.1	2634.0	1652.8	526.0	227.0	75.0	65.0	65.0	
16	61.0	99.3	77.7	339.0	156.0	2622.0	1580.0	518.0	216.5	73.0	69.0	65.0	
17	57.0	93.9	83.1	297.0	283.0	2604.0	1522.8	514.0	206.0	71.0	69.0	65.0	
18	53.0	91.2	107.4	258.5	386.6	2592.0	1481.2	502.0	195.5	71.0	69.0	65.0	
19	49.0	88.5	156.0	269.0	386.6	2604.0	1444.8	474.0	188.5	69.0	71.0	65.0	
20	47.0	85.8	167.6	318.0	360.0	2616.0	1413.6	446.0	179.2	69.0	69.0	65.0	
21	45.0	83.1	220.0	325.0	371.4	2640.0	1382.4	418.0	170.5	69.0	67.0	63.0	
22	45.0	80.4	234.0	311.0	282.0	2652.0	1361.6	402.0	161.8	67.0	65.0	63.0	
23	45.0	77.7	227.0	304.0	637.0	2652.0	1340.8	390.4	156.0	67.0	63.0	61.0	
24	47.0	77.7	216.5	307.5	610.0	2664.0	1320.0	379.0	145.2	67.0	63.0	61.0	
25	47.0	77.7	206.0	307.5	718.0	2658.0	1299.2	379.0	142.5	67.0	61.0	59.0	
26	51.0	77.7	195.5	304.0	826.0	2652.0	1283.6	379.0	137.1	67.0	59.0	59.0	
27	57.0	73.0	199.0	293.5	772.0	2646.0	1247.2	375.2	134.4	67.0	57.0	57.0	
28	69.0	69.0	209.5	283.0	599.5	2628.0	1217.0	371.4	129.0	67.0	55.0	57.0	
29	73.0	75.0	220.0	290.0	505.0	2592.0	1182.4	367.6	123.6	67.0	55.0	55.0	
30	77.7	71.0	227.0	321.5	434.5	2520.0	1144.0	360.0	120.9	67.0		55.0	
31		67.0		398.0	371.5		1110.4		115.5	67.0		55.0	
TOTAL	1790.7	2750.5	3689.3	11934.1	11469.7	61777.4	52597.0	19135.8	6840.7	2408.7	1877.0	1767.0	178037.9 CMSDAY
MEAN	59.7	88.7	123.0	385.0	370.0	2059.2	1696.7	637.9	220.7	77.7	64.7	57.0	486.4 CMS
MAX	77.7	110.1	234.0	725.6	826.0	2664.0	2442.0	1091.2	353.0	107.4	71.0	65.0	2664.0 CMS
MIN	45.0	67.0	57.0	258.5	137.1	300.0	1110.4	360.0	115.5	67.0	55.0	49.0	45.0 CMS
RUNOFF	154.72	237.64	318.76	1031.11	990.98	5337.57	4544.38	1653.33	591.04	208.11	162.17	152.67	15382.48 MCM

MOMENTARY PEAK 2664.00 CMS, AT 112.19 M (MSL), AT 1.00 HOURS, ON SEP 24, 1987
RUNOFF YIELD 4.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 24.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

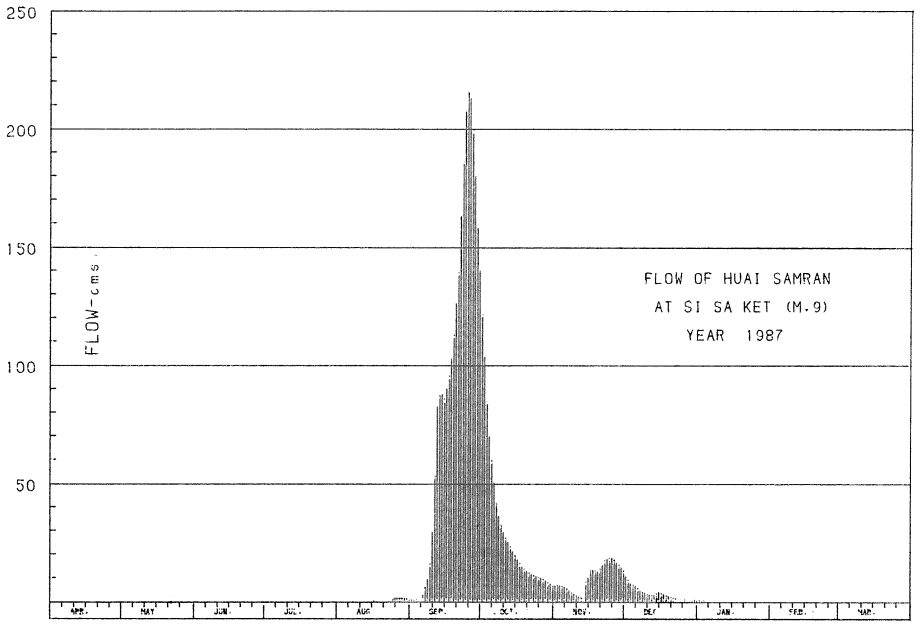
HUAI SAMRAN AT SI SA KET, SI SA KET (M.9)

LOCATION	LAT. 15°-07'-00" N., LONG. 104°-19'-20" E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY, AMPHOE MUANG, SI SA KET.
DRAINAGE AREA	3,026 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+109.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+123.034 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954, 1972 - 1981, 1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954, 1972 - 1981, 1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	108.98	108.94	109.11	109.02	109.02	110.00	116.34	111.53	110.52	109.33	109.05	109.00	
2	109.00	108.94	109.08	109.02	109.10	109.98	116.01	111.57	110.38	109.31	109.05	108.98	
3	109.00	108.94	109.05	109.04	109.04	110.01	115.64	111.57	110.24	109.30	109.07	108.97	
4	109.01	108.95	109.01	109.22	109.13	110.04	115.32	111.52	110.19	109.28	109.06	108.97	
5	109.01	108.95	108.98	109.23	109.15	110.14	115.09	111.43	110.15	109.28	109.06	108.96	
6	109.00	108.95	108.99	109.25	109.09	110.70	114.86	111.29	110.05	109.26	109.04	108.97	
7	108.98	108.94	109.00	109.22	109.04	111.43	114.62	111.14	109.94	109.25	109.04	108.98	
8	108.97	108.94	108.99	109.18	109.03	111.94	114.44	110.97	109.87	109.23	109.03	108.98	
9	108.98	108.93	109.02	109.13	109.02	112.79	114.27	110.79	109.84	109.21	109.05	108.97	
10	109.01	108.93	109.04	109.10	109.03	114.10	114.09	110.65	109.77	109.21	109.05	108.97	
11	109.02	108.96	109.04	109.08	109.03	114.93	113.90	110.48	109.72	109.20	109.05	108.96	
12	109.02	108.97	109.08	109.06	109.04	115.59	113.73	110.34	109.70	109.19	109.03	108.99	
13	109.01	108.96	109.11	109.05	109.03	115.69	113.56	110.23	109.68	109.18	109.03	109.01	
14	109.01	108.96	109.07	109.03	109.01	115.70	113.35	110.30	109.80	109.17	109.03	109.01	
15	109.00	108.96	109.06	109.02	109.02	115.66	113.16	110.46	109.86	109.16	109.03	108.98	
16	108.98	108.93	109.06	109.01	109.97	115.75	112.98	110.71	109.82	109.16	109.03	108.97	
17	108.98	108.93	109.02	109.02	109.66	115.86	112.81	110.73	109.74	109.15	109.02	108.98	
18	108.96	108.94	109.02	109.03	109.55	116.00	112.64	110.70	109.69	109.13	109.03	108.98	
19	108.95	108.93	109.04	109.06	109.41	116.18	112.54	110.67	109.63	109.12	109.03	108.99	
20	108.99	108.94	109.14	109.09	109.30	116.42	112.44	110.76	109.58	109.11	109.02	108.97	
21	108.98	108.94	109.41	109.11	109.20	116.66	112.34	110.86	109.53	109.11	109.01	108.97	
22	108.95	108.95	109.43	109.10	109.21	117.05	112.26	111.01	109.48	109.09	109.00	108.96	
23	108.94	108.96	109.34	109.19	109.43	117.38	112.18	111.04	109.46	109.08	109.01	108.97	
24	108.95	108.96	109.20	109.18	110.17	117.62	112.12	111.06	109.44	109.07	109.01	108.96	
25	108.96	108.95	109.10	109.11	110.22	117.72	112.08	111.07	109.42	109.07	109.01	108.96	
26	108.96	108.94	109.08	109.07	110.31	117.68	112.04	111.02	109.42	109.07	109.01	108.96	
27	108.95	108.94	109.06	109.02	110.32	117.53	111.95	110.93	109.41	109.09	109.01	108.96	
28	108.95	108.95	109.03	109.01	110.29	117.29	111.85	110.88	109.40	109.09	109.01	108.97	
29	108.95	109.08	109.02	109.00	110.24	117.00	111.76	110.80	109.39	109.08	109.01	108.95	
30	108.96	109.06	109.01	109.03	110.18	116.67	111.66	110.70	109.33	109.07		108.94	
31		109.17		109.00	110.09		111.55		109.34	109.06		108.95	
MEAN	108.98	108.96	109.09	109.09	109.46	114.72	113.34	110.91	109.74	109.16	109.03	108.97	
MAX	109.02	109.17	109.43	109.25	110.32	117.72	116.34	111.57	110.52	109.33	109.07	109.01	117.72
MIN	108.94	108.93	108.98	109.00	109.01	109.98	111.55	110.23	109.33	109.06	109.00	108.94	108.93

ANNUAL MAX MOMENTARY GAGE HEIGHT 117.74 M (MSL), AT 12.00 HOURS, ON SEP 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 109.00 M (MSL), RIVER BED 108.80 M (MSL)
LEFT BANK ELEVATION 121.57 M (MSL)
RIGHT BANK ELEVATION 123.38 M (MSL), DRAINAGE AREA 3026 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.01	0.04	0.02	0.02	1.00	121.70	6.71	10.84	0.83	0.14	0.02	
2	0.02	0.01	0.04	0.02	0.04	0.96	103.55	6.94	9.19	0.77	0.14	0.02	
3	0.02	0.01	0.03	0.03	0.03	1.02	84.90	6.94	7.72	0.75	0.18	0.01	
4	0.02	0.01	0.02	0.07	0.05	1.08	69.90	6.66	7.20	0.70	0.16	0.01	
5	0.02	0.01	0.02	0.07	0.05	1.28	59.83	6.16	6.78	0.70	0.16	0.01	
6	0.02	0.01	0.02	0.08	0.04	2.90	50.40	5.45	5.73	0.65	0.11	0.01	
7	0.02	0.01	0.02	0.07	0.03	6.16	41.79	4.70	4.69	0.63	0.11	0.02	
8	0.01	0.01	0.02	0.06	0.03	9.48	36.30	3.98	4.10	0.58	0.09	0.02	
9	0.02	0.01	0.02	0.05	0.02	16.11	32.50	3.26	3.84	0.52	0.14	0.01	
10	0.02	0.01	0.03	0.04	0.03	29.55	29.40	2.70	3.30	0.52	0.14	0.01	
11	0.02	0.01	0.03	0.04	0.03	53.20	27.00	2.04	2.98	0.50	0.14	0.01	
12	0.02	0.01	0.04	0.03	0.03	82.53	25.17	1.68	2.85	0.48	0.09	0.02	
13	0.02	0.01	0.04	0.03	0.03	87.27	23.40	1.46	2.72	0.45	0.09	0.04	
14	0.02	0.01	0.03	0.03	0.02	87.75	21.32	8.35	3.50	0.42	0.09	0.04	
15	0.02	0.01	0.03	0.02	0.02	85.85	19.52	10.12	4.01	0.40	0.09	0.02	
16	0.02	0.01	0.03	0.02	0.94	90.12	17.82	13.28	3.67	0.40	0.09	0.01	
17	0.02	0.01	0.02	0.02	0.46	95.65	16.29	13.56	3.11	0.38	0.07	0.02	
18	0.01	0.01	0.02	0.03	0.35	103.00	14.79	13.15	2.79	0.32	0.09	0.02	
19	0.01	0.01	0.03	0.03	0.21	112.90	13.94	12.74	2.39	0.30	0.09	0.02	
20	0.02	0.01	0.05	0.04	0.10	126.10	13.09	13.96	2.08	0.28	0.07	0.01	
21	0.02	0.01	0.21	0.04	0.06	139.45	12.30	15.40	1.78	0.28	0.04	0.01	
22	0.01	0.01	0.23	0.04	0.06	163.00	11.72	17.65	1.48	0.23	0.02	0.01	
23	0.01	0.01	0.14	0.06	0.23	186.55	11.16	18.10	1.36	0.20	0.04	0.01	
24	0.01	0.01	0.06	0.06	1.34	207.40	10.74	18.40	1.24	0.18	0.04	0.01	
25	0.01	0.01	0.04	0.04	1.44	217.00	10.46	18.55	1.12	0.18	0.04	0.01	
26	0.01	0.01	0.04	0.03	1.62	213.10	10.18	17.80	1.12	0.18	0.04	0.01	
27	0.01	0.01	0.03	0.02	1.64	199.37	9.55	16.45	1.06	0.23	0.04	0.01	
28	0.01	0.01	0.03	0.02	1.58	180.03	8.85	15.70	1.00	0.23	0.04	0.01	
29	0.01	0.04	0.02	0.02	1.48	159.50	8.22	14.50	0.97	0.20	0.04	0.01	
30	0.01	0.03	0.02	0.03	1.36	140.02	7.52	13.15	0.83	0.18		0.01	
31		0.05		0.02	1.18		6.83		0.85	0.16		0.01	
TOTAL	0.48	0.40	1.40	1.18	14.52	2799.33	930.14	309.54	106.30	12.83	2.62	0.46	4179.20 CMSDAY
MEAN	0.02	0.01	0.05	0.04	0.47	93.31	30.00	10.32	3.43	0.41	0.09	0.01	11.42 CMS
MAX	0.02	0.05	0.23	0.08	1.64	217.00	121.70	18.55	10.84	0.83	0.18	0.04	217.00 CMS
MIN	0.01	0.01	0.02	0.02	0.02	0.96	6.83	1.46	0.83	0.16	0.02	0.01	0.01 CMS
RUNOFF	0.041	0.035	0.121	0.102	1.255	241.862	80.364	26.744	9.184	1.109	0.226	0.040	361.083 MCM

MOMENTARY PEAK 219.00 CMS, AT 117.74 M (MSL), AT 12.00 HOURS, ON SEP 25, 1987

RUNOFF YIELD 3.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 72.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

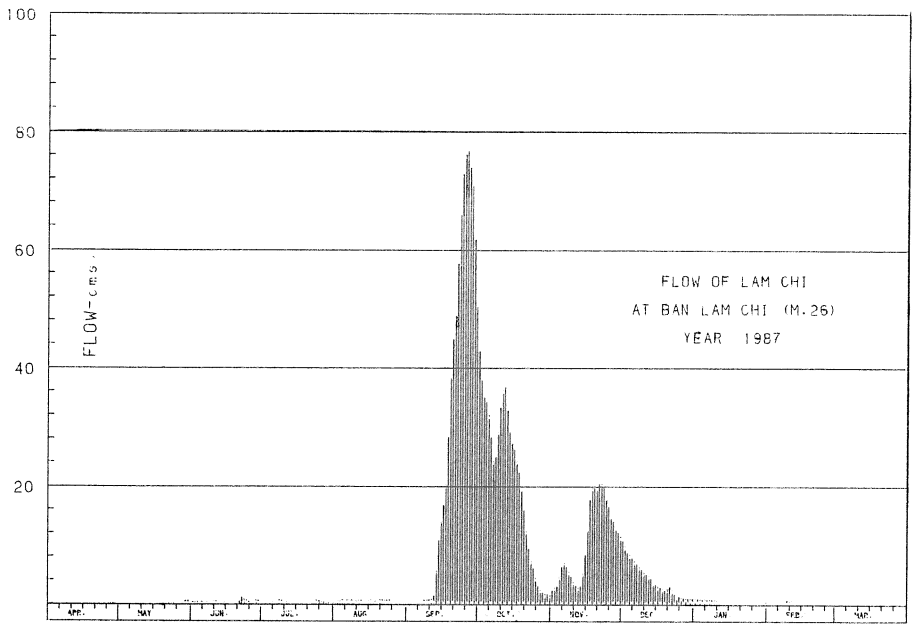
LAM CHI AT BAN LAM CHI, SURIN (M.26)

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	+127.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+135.010 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1968, 1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1968, 1978 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 80 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	127.46	127.43	127.53	127.57	127.50	127.53	131.48	128.14	129.19	127.77	127.54	127.52	
2	127.46	127.43	127.54	127.55	127.63	127.54	131.16	128.23	129.10	127.76	127.54	127.49	
3	127.45	127.42	127.55	127.57	127.63	127.52	131.02	128.27	128.99	127.74	127.54	127.55	
4	127.43	127.42	127.57	127.60	127.69	127.47	130.94	128.50	128.96	127.74	127.53	127.53	
5	127.44	127.42	127.55	127.56	127.64	127.55	130.80	128.73	128.90	127.73	127.54	127.51	
6	127.44	127.40	127.56	127.52	127.67	127.60	130.55	128.82	128.85	127.72	127.53	127.51	
7	127.45	127.41	127.54	127.58	127.66	127.64	130.27	128.74	128.80	127.71	127.53	127.50	
8	127.45	127.42	127.50	127.69	127.68	127.68	130.32	128.62	128.73	127.70	127.54	127.50	
9	127.46	127.41	127.50	127.64	127.64	127.68	130.61	128.51	128.67	127.69	127.66	127.50	
10	127.48	127.40	127.58	127.58	127.63	127.70	130.88	128.38	128.61	127.65	127.61	127.50	
11	127.46	127.40	127.58	127.56	127.65	127.74	131.06	128.30	128.56	127.64	127.64	127.50	
12	127.46	127.40	127.51	127.56	127.66	127.91	131.09	128.23	128.52	127.62	127.63	127.50	
13	127.44	127.40	127.52	127.56	127.60	128.64	130.88	128.28	128.46	127.60	127.60	127.49	
14	127.44	127.40	127.54	127.54	127.60	129.20	130.61	128.58	128.38	127.59	127.58	127.52	
15	127.42	127.40	127.51	127.53	127.64	129.49	130.52	128.95	128.32	127.57	127.55	127.51	
16	127.42	127.40	127.49	127.51	127.67	129.72	130.41	129.39	128.27	127.55	127.53	127.50	
17	127.42	127.40	127.46	127.50	127.64	129.98	130.27	129.79	128.23	127.56	127.52	127.48	
18	127.43	127.42	127.44	127.47	127.60	130.55	130.13	129.94	128.19	127.57	127.57	127.48	
19	127.44	127.44	127.50	127.45	127.65	131.21	129.94	129.94	128.14	127.54	127.56	127.48	
20	127.45	127.45	127.52	127.43	127.72	131.56	129.65	129.95	128.19	127.56	127.54	127.47	
21	127.46	127.46	127.78	127.42	127.70	131.81	129.34	129.99	128.26	127.56	127.53	127.46	
22	127.45	127.45	127.82	127.52	127.67	132.23	129.06	129.99	128.15	127.54	127.58	127.47	
23	127.43	127.45	127.71	127.61	127.68	132.63	128.85	129.94	127.98	127.54	127.56	127.47	
24	127.44	127.44	127.65	127.67	127.68	132.91	128.70	129.83	127.90	127.54	127.56	127.48	
25	127.44	127.43	127.56	127.63	127.61	133.07	128.48	129.70	127.87	127.54	127.56	127.50	
26	127.45	127.43	127.52	127.58	127.54	133.07	128.28	129.58	127.83	127.54	127.58	127.50	
27	127.47	127.42	127.58	127.57	127.50	132.98	128.15	129.49	127.80	127.54	127.53	127.50	
28	127.46	127.53	127.69	127.50	127.45	132.83	128.06	129.42	127.79	127.54	127.52	127.50	
29	127.48	127.63	127.64	127.51	127.43	132.44	127.99	129.32	127.78	127.53	127.53	127.47	
30	127.46	127.64	127.58	127.50	127.50	131.86	127.99	129.26	127.77	127.56		127.47	
31		127.58		127.48	127.47		127.95		127.77	127.53		127.46	
MEAN	127.45	127.44	127.57	127.55	127.61	129.92	129.85	129.09	128.35	127.61	127.56	127.49	
MAX	127.48	127.64	127.82	127.69	127.72	133.07	131.48	129.99	129.19	127.77	127.66	127.55	133.07
MIN	127.42	127.40	127.44	127.42	127.43	127.47	127.95	128.14	127.77	127.53	127.52	127.46	127.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 133.08 M (MSL), AT 13.00 HOURS, ON SEP 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 127.00 M (MSL), RIVER BED 127.08 M (MSL)
LEFT BANK ELEVATION 138.74 M (MSL)
RIGHT BANK ELEVATION 138.70 M (MSL), DRAINAGE AREA 2927 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.07	0.32	0.43	0.25	0.32	43.40	2.31	10.70	0.92	0.35	0.30	
2	0.15	0.07	0.35	0.38	0.57	0.35	37.92	2.78	9.80	0.90	0.35	0.22	
3	0.12	0.05	0.38	0.43	0.57	0.30	35.54	2.99	8.70	0.85	0.35	0.38	
4	0.07	0.05	0.43	0.50	0.73	0.18	34.24	4.61	8.40	0.85	0.32	0.32	
5	0.10	0.05	0.38	0.40	0.60	0.38	32.00	6.29	7.80	0.83	0.35	0.28	
6	0.10	0.00	0.40	0.30	0.68	0.50	28.25	7.00	7.30	0.80	0.32	0.28	
7	0.12	0.03	0.35	0.45	0.65	0.60	24.18	6.36	6.80	0.78	0.32	0.25	
8	0.12	0.05	0.25	0.73	0.70	0.70	24.88	5.49	6.29	0.75	0.35	0.25	
9	0.15	0.03	0.25	0.60	0.60	0.70	29.15	4.68	5.85	0.73	0.65	0.25	
10	0.20	0.00	0.45	0.45	0.57	0.75	33.28	3.73	5.41	0.63	0.53	0.25	
11	0.15	0.00	0.45	0.40	0.63	0.85	36.22	3.15	5.05	0.60	0.60	0.25	
12	0.15	0.00	0.28	0.40	0.65	1.39	36.73	2.78	4.76	0.55	0.57	0.25	
13	0.10	0.00	0.30	0.40	0.50	5.63	33.28	3.04	4.32	0.50	0.50	0.22	
14	0.10	0.00	0.35	0.35	0.50	10.80	29.15	5.19	3.73	0.47	0.45	0.30	
15	0.05	0.00	0.28	0.32	0.60	13.99	27.80	8.30	3.30	0.43	0.38	0.28	
16	0.05	0.00	0.22	0.28	0.68	16.76	26.15	12.89	2.99	0.38	0.32	0.25	
17	0.05	0.00	0.15	0.25	0.60	20.23	24.18	17.67	2.78	0.40	0.30	0.20	
18	0.07	0.05	0.10	0.18	0.50	28.25	22.26	19.69	2.57	0.43	0.43	0.20	
19	0.10	0.10	0.25	0.12	0.63	38.77	19.69	19.69	2.31	0.35	0.40	0.20	
20	0.12	0.12	0.30	0.07	0.80	44.80	15.90	19.82	2.57	0.40	0.35	0.18	
21	0.15	0.15	0.95	0.05	0.75	49.39	12.34	20.37	2.94	0.40	0.32	0.15	
22	0.12	0.12	1.07	0.30	0.68	57.66	9.40	20.37	2.36	0.35	0.45	0.18	
23	0.07	0.12	0.78	0.53	0.70	66.48	7.30	19.69	1.63	0.35	0.40	0.18	
24	0.10	0.10	0.63	0.68	0.70	72.86	6.07	18.20	1.35	0.35	0.40	0.20	
25	0.10	0.07	0.40	0.57	0.53	76.75	4.46	16.50	1.25	0.35	0.40	0.25	
26	0.12	0.07	0.30	0.45	0.35	76.75	3.04	15.06	1.10	0.35	0.45	0.25	
27	0.18	0.05	0.45	0.43	0.25	74.52	2.36	13.99	1.00	0.35	0.32	0.25	
28	0.15	0.32	0.73	0.25	0.12	70.96	1.94	13.22	0.97	0.35	0.30	0.25	
29	0.20	0.57	0.60	0.28	0.07	62.28	1.66	12.12	0.95	0.32	0.32	0.18	
30	0.15	0.60	0.45	0.25	0.25	50.34	1.66	11.46	0.92	0.40		0.18	
31		0.45		0.20	0.18		1.52		0.92	0.32		0.15	
TOTAL	3.56	3.29	12.60	11.43	16.59	844.24	645.95	319.44	126.82	16.44	11.55	7.33	2019.24 CMSDAY
MEAN	0.12	0.11	0.42	0.37	0.54	28.14	20.84	10.65	4.09	0.53	0.40	0.24	5.52 CMS
MAX	0.20	0.60	1.07	0.73	0.80	76.75	43.40	20.37	10.70	0.92	0.65	0.38	76.75 CMS
MIN	0.05	0.00	0.10	0.05	0.07	0.18	1.52	2.31	0.92	0.32	0.30	0.15	0.00 CMS
RUNOFF	0.308	0.284	1.089	0.988	1.433	72.942	55.810	27.600	10.957	1.420	0.998	0.633	174.462 MCM

MOMENTARY PEAK 77.00 CMS, AT 133.08 M (MSL), AT 13.00 HOURS, ON SEP 25, 1987

RUNOFF YIELD 1.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 26.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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.K.M.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +121.88 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +126.666 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 — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971 - 1974, 1979, 1981 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971 -1979, 1981 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

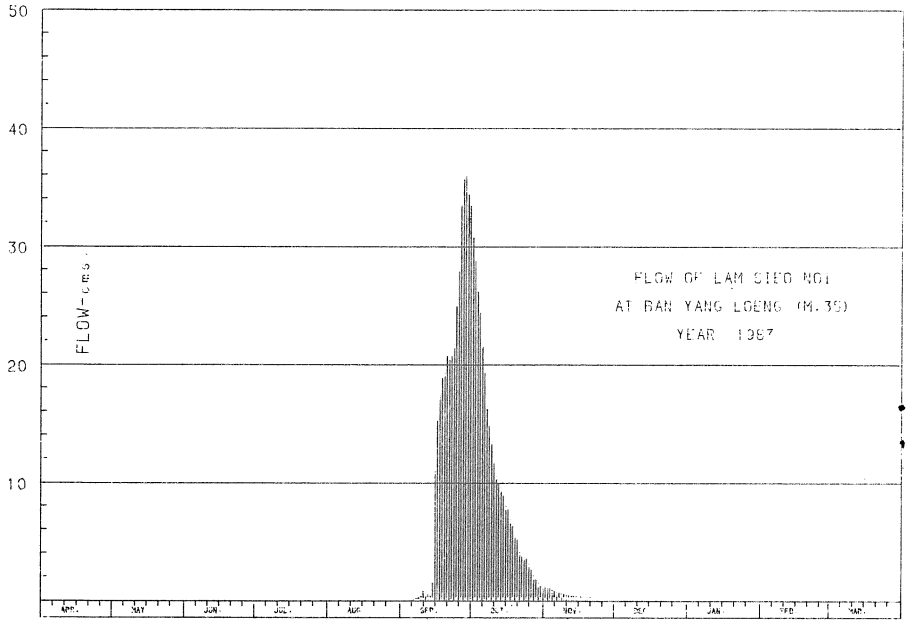
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	122.71	122.55	122.45	122.85	122.86	122.88	124.28	123.37	123.17	123.05	122.89	122.73	
2	122.71	122.55	122.45	122.84	122.85	122.88	124.24	123.37	123.16	123.04	122.88	122.72	
3	122.73	122.54	122.46	122.83	122.85	122.94	124.20	123.36	123.14	123.04	122.88	122.78	
4	122.72	122.54	122.47	122.92	122.84	122.93	124.16	123.34	123.14	123.04	122.87	122.78	
5	122.71	122.56	122.46	123.01	122.83	122.95	124.11	123.33	123.14	123.03	122.87	122.77	
6	122.71	122.56	122.45	123.02	122.82	123.15	124.06	123.32	123.14	123.03	122.86	122.76	
7	122.70	122.56	122.54	123.03	122.82	123.19	124.00	123.31	123.13	123.02	122.86	122.75	
8	122.69	122.55	122.53	123.02	122.81	123.21	123.96	123.30	123.13	123.02	122.85	122.75	
9	122.70	122.55	122.63	123.01	122.80	123.24	123.93	123.29	123.13	123.01	122.85	122.74	
10	122.69	122.55	122.64	123.02	122.80	123.33	123.88	123.27	123.13	123.01	122.85	122.74	
11	122.69	122.55	122.64	123.01	122.82	123.32	123.85	123.26	123.13	123.00	122.84	122.73	
12	122.68	122.54	122.64	123.01	122.81	123.28	123.83	123.25	123.12	123.00	122.83	122.73	
13	122.67	122.53	122.63	123.00	122.80	123.25	123.82	123.25	123.12	122.99	122.83	122.72	
14	122.68	122.52	122.64	123.00	122.79	123.42	123.80	123.25	123.12	122.99	122.82	122.72	
15	122.67	122.51	122.63	122.98	122.79	123.86	123.77	123.24	123.12	122.98	122.82	122.72	
16	122.66	122.51	122.62	122.98	122.83	123.97	123.76	123.24	123.11	122.98	122.81	122.71	
17	122.65	122.50	122.62	122.98	122.88	124.02	123.73	123.23	123.11	122.97	122.80	122.71	
18	122.65	122.49	122.62	122.97	122.87	124.05	123.71	123.24	123.11	122.96	122.79	122.72	
19	122.64	122.48	122.62	122.97	122.86	124.06	123.68	123.24	123.10	122.95	122.79	122.72	
20	122.63	122.48	122.65	122.97	122.86	124.09	123.66	123.23	123.10	122.94	122.78	122.72	
21	122.62	122.47	122.79	122.95	122.85	124.09	123.61	123.22	123.09	122.94	122.77	122.71	
22	122.61	122.47	122.84	122.94	122.85	124.09	123.59	123.21	123.09	122.94	122.76	122.68	
23	122.61	122.46	122.85	122.93	122.86	124.11	123.59	123.21	123.08	122.93	122.76	122.69	
24	122.60	122.45	122.85	122.92	122.85	124.17	123.58	123.20	123.08	122.93	122.76	122.69	
25	122.59	122.45	122.84	122.92	122.85	124.23	123.55	123.20	123.08	122.93	122.75	122.68	
26	122.60	122.44	122.84	122.91	122.84	124.32	123.52	123.20	123.07	122.92	122.74	122.68	
27	122.59	122.44	122.83	122.89	122.92	124.36	123.48	123.19	123.07	122.92	122.74	122.66	
28	122.58	122.43	122.82	122.89	122.91	124.36	123.45	123.19	123.07	122.91	122.73	122.66	
29	122.57	122.46	122.87	122.88	122.90	124.34	123.42	123.18	123.06	122.90	122.73	122.65	
30	122.56	122.46	122.86	122.88	122.89	124.32	123.39	123.17	123.06	122.90		122.64	
31		122.46		122.87	122.88		123.36		123.05	122.89		122.63	
MEAN	122.65	122.50	122.66	122.95	122.84	123.68	123.77	123.26	123.11	122.97	122.81	122.71	
MAX	122.73	122.56	122.87	123.03	122.92	124.36	124.28	123.37	123.17	123.05	122.89	122.78	124.36
MIN	122.56	122.43	122.45	122.83	122.79	122.88	123.36	123.17	123.05	122.89	122.73	122.63	122.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 124.36 M (MSL), AT 6.00 HOURS, ON SEP 27, 1987
ZERO GAGE AT BOTTOM ELEVATION 121.88 M (MSL), RIVER BED 121.47 M (MSL)
LEFT BANK ELEVATION 125.42 M (MSL)
RIGHT BANK ELEVATION 125.40 M (MSL), DRAINAGE AREA 672 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	31.06	1.09	0.14	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	28.78	1.09	0.12	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	26.50	1.02	0.08	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	24.38	0.88	0.08	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	21.73	0.81	0.08	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.10	19.32	0.74	0.08	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.18	16.50	0.67	0.06	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.24	14.82	0.60	0.06	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.36	13.56	0.56	0.06	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.81	11.62	0.48	0.06	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.74	10.60	0.44	0.06	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.52	9.92	0.40	0.04	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.40	9.58	0.40	0.04	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	1.50	8.90	0.40	0.04	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	10.94	8.03	0.36	0.04	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	15.24	7.74	0.36	0.02	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	17.44	6.87	0.32	0.02	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	18.85	6.29	0.36	0.02	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	19.32	5.58	0.36	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	20.73	5.16	0.32	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	20.73	4.11	0.28	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	20.73	3.74	0.24	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	21.73	3.74	0.24	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	24.91	3.58	0.20	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	28.21	3.10	0.20	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	33.46	2.62	0.20	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	35.98	2.10	0.18	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	35.98	1.80	0.18	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	34.72	1.50	0.16	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	33.46	1.23	0.14	0.00	0.00		0.00	
31		0.00		0.00	0.00		1.02		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	397.28	315.48	13.68	1.10	0.00	0.00	0.00	727.54 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.00	13.24	10.18	0.46	0.04	0.00	0.00	0.00	1.99 CMS
MAX	0.00	0.00	0.00	0.00	0.00	35.98	31.06	1.09	0.14	0.00	0.00	0.00	35.98 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.14	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.000	34.325	27.257	1.182	0.095	0.000	0.000	0.000	62.859 MCM

MOMENTARY PEAK 35.98 CMS, AT 124.36 M (MSL), AT 6.00 HOURS, ON SEP 27, 1987
RUNOFF YIELD 2.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 53.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

LAM TAKHONG AT BAN KHLONG PHAI, NAKHON RATCHASIMA (M.38C)

LOCATION — LAT. 14°-52'-06" N., LONG. 101°-33'-53" E., ON LEFT BANK ABOUT 500 METERS DOWNSTREAM FROM LAM TAKHONG DAM, TAMBON KHLONG PHAI, AMPHOE SIKHIU, NAKHON RATCHASIMA.

DRAINAGE AREA — 1,292 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +242.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 20 METERS FROM THE MEASURING LINE.

ELEVATION — +251.841 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1962 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1962-1965, 1967 - 1974, 1979 - 1981, 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1962-1965, 1967 - 1974, 1979 - 1981, 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

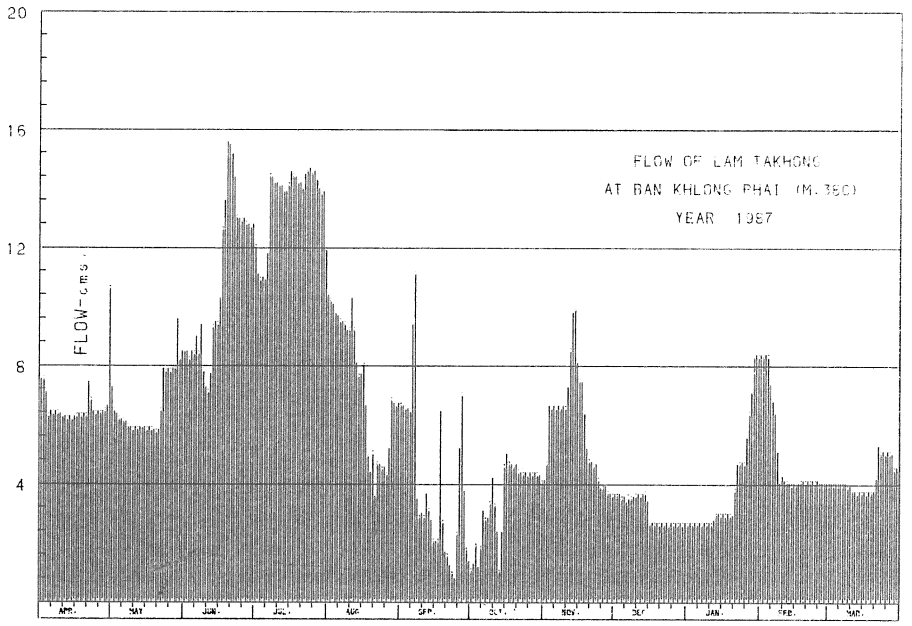
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. FLOW REGULATED BY LAM TAKHONG RESERVOIR DIVERTED FOR IRRIGATION OF ABOUT 62,080 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	245.35	245.32	245.46	245.81	245.64	245.26	244.58	244.97	244.92	244.80	245.44	244.96	
2	245.36	245.24	245.45	245.71	245.63	245.25	244.61	245.04	244.92	244.80	245.44	244.96	
3	245.30	245.22	245.43	245.70	245.61	245.25	244.71	245.25	244.92	244.80	245.44	244.96	
4	245.22	245.21	245.45	245.70	245.59	245.24	244.59	245.25	244.91	244.80	245.44	244.96	
5	245.23	245.20	245.45	245.70	245.57	245.24	244.70	245.25	244.91	244.80	245.33	244.96	
6	245.23	245.20	245.50	245.78	245.56	245.54	244.85	245.25	244.90	244.80	245.28	244.96	
7	245.23	245.19	245.45	246.05	245.55	245.72	244.82	245.25	244.90	244.80	245.22	244.96	
8	245.23	245.18	245.54	246.04	245.55	244.90	244.82	245.25	244.91	244.80	245.09	244.96	
9	245.22	245.17	245.39	246.03	245.52	244.83	244.89	245.25	244.91	244.80	244.96	244.95	
10	245.22	245.17	245.32	246.02	245.53	244.84	244.98	245.25	244.92	244.80	245.00	244.95	
11	245.21	245.17	245.31	246.02	245.63	244.83	244.88	245.32	244.92	244.80	244.97	244.94	
12	245.21	245.17	245.37	246.01	245.53	244.92	244.76	245.46	244.92	244.81	244.97	244.93	
13	245.21	245.17	245.54	246.00	245.41	244.86	244.57	245.58	244.92	244.84	244.96	244.93	
14	245.21	245.18	245.55	245.99	245.37	244.81	244.76	245.60	244.93	244.84	244.96	244.93	
15	245.21	245.17	245.55	246.02	245.37	244.73	245.03	245.41	244.89	244.84	244.96	244.93	
16	245.22	245.17	245.63	246.06	245.41	244.72	245.07	245.35	244.80	244.84	244.96	244.93	
17	245.22	245.17	245.87	246.05	245.25	244.73	245.04	245.34	244.80	244.84	244.96	244.93	
18	245.22	245.17	245.96	246.04	245.07	245.23	245.03	245.23	244.80	244.84	244.97	244.93	
19	245.22	245.16	246.17	246.03	245.00	244.81	245.03	245.09	244.80	244.84	244.97	244.93	
20	245.22	245.16	246.15	246.02	245.08	244.67	245.03	245.05	244.80	244.83	244.97	244.93	
21	245.34	245.16	246.13	246.01	244.91	244.66	245.01	245.04	244.80	244.94	244.97	244.99	
22	245.28	245.24	246.04	246.05	245.04	244.60	245.00	245.03	244.80	245.03	244.97	245.10	
23	245.23	245.39	245.91	246.07	245.03	244.56	245.00	245.03	244.80	245.04	244.97	245.08	
24	245.23	245.39	245.90	246.07	245.02	244.52	245.00	244.98	244.80	245.04	244.97	245.08	
25	245.23	245.39	245.90	246.06	245.02	244.76	245.00	244.94	244.80	245.04	244.97	245.08	
26	245.23	245.39	245.90	246.06	245.00	245.09	245.00	244.95	244.80	245.13	244.96	245.08	
27	245.23	245.39	245.89	246.04	245.09	245.30	245.00	244.95	244.80	245.23	244.96	245.08	
28	245.24	245.40	245.88	246.00	245.28	244.93	245.00	244.93	244.80	245.30	244.96	245.07	
29	245.25	245.56	245.88	245.99	245.26	244.69	245.00	244.92	244.80	245.44	244.96	245.02	
30	245.67	245.43	245.88	245.99	245.26	244.62	244.99	244.92	244.80	245.44		245.02	
31		245.45		245.80	245.26		244.97		244.80	245.44		245.02	
MEAN	245.26	245.26	245.69	245.97	245.32	244.94	244.89	245.17	244.85	244.95	245.07	244.98	
MAX	245.67	245.56	246.17	246.07	245.64	245.72	245.07	245.60	244.93	245.44	245.44	245.10	246.17
MIN	245.21	245.16	245.31	245.70	244.91	244.52	244.57	244.92	244.80	244.80	244.96	244.93	244.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 246.80 M (MSL), AT 9.00 HOURS, ON APR 30, 1987
ZERO GAGE AT BOTTOM ELEVATION 242.00 M (MSL), RIVER BED 243.80 M (MSL)
LEFT BANK ELEVATION 251.90 M (MSL)
RIGHT BANK ELEVATION 253.22 M (MSL), DRAINAGE AREA 1292 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.55	7.28	8.60	12.10	10.40	6.74	1.14	4.13	3.68	2.70	8.40	4.04	
2	7.64	6.56	8.50	11.10	10.30	6.65	1.31	4.76	3.68	2.70	8.40	4.04	
3	7.10	6.38	8.30	11.00	10.10	6.65	1.98	6.65	3.68	2.70	8.40	4.04	
4	6.38	6.29	8.50	11.00	9.90	6.56	1.19	6.65	3.59	2.70	8.40	4.04	
5	6.47	6.20	8.50	11.00	9.70	6.56	1.90	6.65	3.59	2.70	7.37	4.04	
6	6.47	6.20	9.00	11.80	9.60	9.40	3.10	6.65	3.50	2.70	6.92	4.04	
7	6.47	6.11	8.50	14.50	9.50	11.20	2.86	6.65	3.50	2.70	6.38	4.04	
8	6.47	6.02	9.40	14.40	9.50	3.50	2.86	6.65	3.59	2.70	5.21	4.04	
9	6.38	5.93	7.91	14.30	9.20	2.94	3.42	6.65	3.59	2.70	4.04	3.95	
10	6.38	5.93	7.28	14.20	9.30	3.02	4.22	6.65	3.68	2.70	4.40	3.95	
11	6.29	5.93	7.19	14.20	10.30	2.94	3.34	7.28	3.68	2.70	4.13	3.86	
12	6.29	5.93	7.73	14.10	9.30	3.68	2.38	8.60	3.68	2.78	4.13	3.77	
13	6.29	5.93	9.40	14.00	8.10	3.18	1.09	9.80	3.68	3.02	4.04	3.77	
14	6.29	6.02	9.50	13.90	7.73	2.78	2.38	10.00	3.77	3.02	4.04	3.77	
15	6.29	5.93	9.50	14.20	7.73	2.14	4.67	8.10	3.42	3.02	4.04	3.77	
16	6.38	5.93	10.30	14.60	8.10	2.06	5.03	7.55	2.70	3.02	4.04	3.77	
17	6.38	5.93	12.70	14.50	6.65	2.14	4.76	7.46	2.70	3.02	4.04	3.77	
18	6.38	5.93	13.60	14.40	5.03	6.47	4.67	6.47	2.70	3.02	4.13	3.77	
19	6.38	5.84	15.70	14.30	4.40	2.78	4.67	5.21	2.70	3.02	4.13	3.77	
20	6.38	5.84	15.50	14.20	5.12	1.70	4.67	4.85	2.70	2.94	4.13	3.77	
21	7.46	5.84	15.30	14.10	3.59	1.64	4.49	4.76	2.70	3.86	4.13	4.31	
22	6.92	6.56	14.40	14.50	4.76	1.25	4.40	4.67	2.70	4.67	4.13	5.30	
23	6.47	7.91	13.10	14.70	4.67	1.03	4.40	4.67	2.70	4.76	4.13	5.12	
24	6.47	7.91	13.00	14.70	4.58	0.81	4.40	4.22	2.70	4.76	4.13	5.12	
25	6.47	7.91	13.00	14.60	4.58	2.38	4.40	3.86	2.70	4.76	4.13	5.12	
26	6.47	7.91	13.00	14.60	4.40	5.21	4.40	3.95	2.70	5.57	4.04	5.12	
27	6.47	7.91	12.90	14.40	5.21	7.10	4.40	3.95	2.70	6.47	4.04	5.12	
28	6.56	8.00	12.80	14.00	6.92	3.77	4.40	3.77	2.70	7.10	4.04	5.03	
29	6.65	9.60	12.80	13.90	6.74	1.84	4.40	3.68	2.70	8.40	4.04	4.58	
30	10.70	8.30	12.80	13.90	6.74	1.38	4.31	3.68	2.70	8.40		4.58	
31		8.50		12.00	6.74		4.13		2.70	8.40		4.58	
TOTAL	201.30	208.46	328.71	423.20	228.89	119.50	109.77	178.62	97.51	123.71	145.58	131.99	2297.24 CMSDAY
MEAN	6.71	6.72	10.96	13.65	7.38	3.98	3.54	5.95	3.15	3.99	5.02	4.26	6.28 CMS
MAX	10.70	9.60	15.70	14.70	10.40	11.20	5.03	10.00	3.77	8.40	8.40	5.30	15.70 CMS
MIN	6.29	5.84	7.19	11.00	3.59	0.81	1.09	3.68	2.70	2.70	4.04	3.77	0.81 CMS
RUNOFF	17.392	18.011	28.401	36.564	19.776	10.325	9.484	15.433	8.425	10.689	12.578	11.404	198.482 MCM

MOMENTARY PEAK 22.10 CMS, AT 246.80 M (MSL), AT 9.00 HOURS, ON APR 30, 1987

RUNOFF YIELD 4.86 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

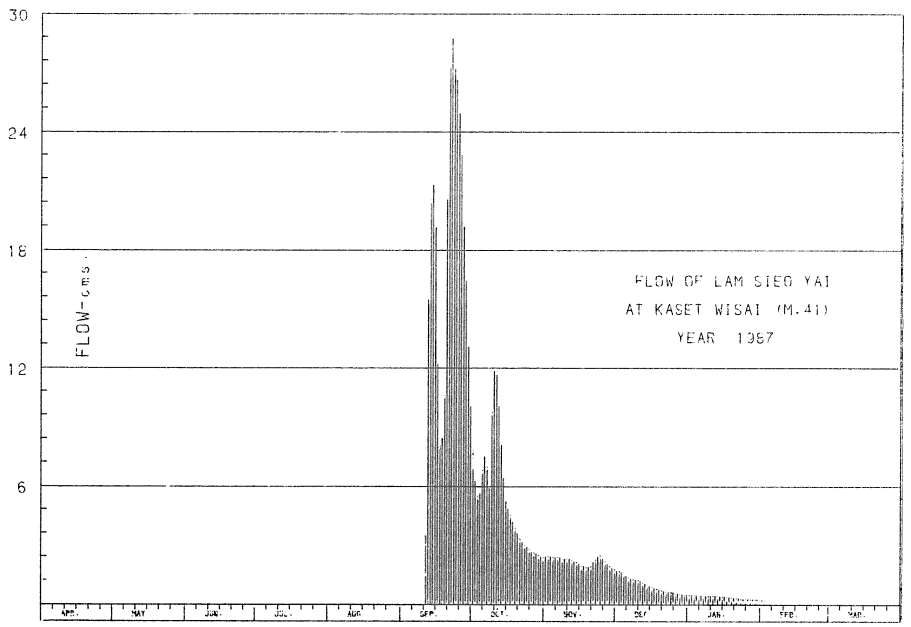
LAM SIEO YAI AT KASET WISAI, ROI ET (M.41)

LOCATION	LAT. 15°-38'-46" N., LONG. 103°-33'-55" E., ON LEFT BANK AT TAMBON KASET WISAI, AMPHOE KASET WISAI, ROI ET.
DRAINAGE AREA	1,210 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+125.30 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE AUTOMATIC GAGE BUILDING.
ELEVATION	+128.419 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971-1974, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1974, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	125.30	125.30	125.30	125.30	125.33	125.31	127.66	127.03	126.84	126.28	126.01	125.77	
2	125.30	125.30	125.30	125.30	125.33	125.30	127.56	127.03	126.83	126.27	126.00	125.76	
3	125.30	125.30	125.30	125.30	125.33	125.30	127.50	127.03	126.81	126.27	125.99	125.80	
4	125.30	125.30	125.30	125.30	125.32	125.30	127.51	127.02	126.79	126.25	125.98	125.80	
5	125.30	125.30	125.30	125.30	125.30	125.31	127.60	127.02	126.75	126.24	125.97	125.80	
6	125.30	125.30	125.30	125.30	125.30	125.35	127.64	127.02	126.72	126.24	125.95	125.80	
7	125.30	125.30	125.30	125.30	125.30	125.41	127.61	127.02	126.70	126.24	125.94	125.79	
8	125.30	125.30	125.30	125.37	125.30	125.42	127.53	127.01	126.68	126.23	125.93	125.78	
9	125.30	125.30	125.30	125.40	125.30	125.49	127.74	127.00	126.68	126.23	125.94	125.78	
10	125.30	125.30	125.30	125.41	125.30	125.77	127.81	127.00	126.66	126.23	125.94	125.77	
11	125.30	125.30	125.30	125.43	125.30	127.26	127.81	127.00	126.64	126.23	125.93	125.76	
12	125.30	125.30	125.30	125.45	125.30	127.91	127.75	126.98	126.60	126.23	125.93	125.75	
13	125.30	125.30	125.30	125.45	125.30	128.01	127.68	126.97	126.57	126.22	125.92	125.73	
14	125.30	125.30	125.30	125.43	125.30	128.02	127.57	126.96	126.54	126.20	125.91	125.72	
15	125.30	125.30	125.30	125.40	125.30	127.99	127.49	126.94	126.51	126.19	125.90	125.71	
16	125.30	125.30	125.30	125.40	125.30	127.82	127.43	126.91	126.48	126.19	125.90	125.70	
17	125.30	125.30	125.30	125.38	125.30	127.67	127.39	126.91	126.46	126.17	125.89	125.68	
18	125.30	125.30	125.30	125.37	125.30	127.69	127.35	126.89	126.44	126.16	125.89	125.66	
19	125.30	125.30	125.30	125.37	125.30	127.77	127.31	126.90	126.42	126.14	125.88	125.64	
20	125.30	125.30	125.30	125.37	125.30	128.01	127.27	126.91	126.40	126.12	125.88	125.63	
21	125.30	125.30	125.30	125.35	125.30	128.10	127.22	126.96	126.38	126.11	125.86	125.62	
22	125.30	125.30	125.30	125.34	125.30	128.11	127.19	126.99	126.37	126.10	125.84	125.61	
23	125.30	125.30	125.30	125.34	125.30	128.10	127.16	127.03	126.36	126.08	125.83	125.60	
24	125.30	125.30	125.30	125.35	125.31	128.09	127.14	127.04	126.36	126.07	125.81	125.59	
25	125.30	125.30	125.30	125.37	125.31	128.07	127.12	127.00	126.35	126.07	125.79	125.58	
26	125.30	125.30	125.30	125.37	125.31	128.04	127.09	126.97	126.33	126.07	125.79	125.56	
27	125.30	125.30	125.30	125.36	125.31	127.99	127.08	126.94	126.32	126.07	125.79	125.54	
28	125.30	125.30	125.30	125.35	125.31	127.93	127.07	126.91	126.31	126.06	125.78	125.53	
29	125.30	125.30	125.30	125.33	125.32	127.85	127.05	126.88	126.30	126.05	125.77	125.51	
30	125.30	125.30	125.30	125.32	125.32	127.75	127.03	126.86	126.30	126.05		125.50	
31		125.30		125.32	125.32		127.02		126.29	126.03		125.50	
MEAN	125.30	125.30	125.30	125.36	125.31	127.07	127.40	126.97	126.52	126.16	125.89	125.68	
MAX	125.30	125.30	125.30	125.45	125.33	128.11	127.81	127.04	126.84	126.28	126.01	125.80	128.11
MIN	125.30	125.30	125.30	125.30	125.30	125.30	127.02	126.86	126.29	126.03	125.77	125.50	125.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 128.11 M (MSL), AT 16.00 HOURS, ON SEP 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 125.30 M (MSL), RIVER BED 125.19 M (MSL)
LEFT BANK ELEVATION 128.88 M (MSL)
RIGHT BANK ELEVATION 128.72 M (MSL), DRAINAGE AREA 1310 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	7.88	2.42	1.72	0.48	0.21	0.04	
2	0.00	0.00	0.00	0.00	0.00	0.00	6.28	2.42	1.69	0.47	0.20	0.03	
3	0.00	0.00	0.00	0.00	0.00	0.00	5.50	2.42	1.63	0.47	0.19	0.05	
4	0.00	0.00	0.00	0.00	0.00	0.00	5.63	2.38	1.57	0.45	0.18	0.05	
5	0.00	0.00	0.00	0.00	0.00	0.00	6.80	2.38	1.45	0.44	0.18	0.05	
6	0.00	0.00	0.00	0.00	0.00	0.00	7.52	2.38	1.36	0.44	0.16	0.05	
7	0.00	0.00	0.00	0.00	0.00	0.00	6.98	2.38	1.30	0.44	0.15	0.04	
8	0.00	0.00	0.00	0.00	0.00	0.00	5.89	2.34	1.26	0.43	0.14	0.04	
9	0.00	0.00	0.00	0.00	0.00	0.00	9.76	2.30	1.26	0.43	0.15	0.04	
10	0.00	0.00	0.00	0.00	0.00	0.04	11.85	2.30	1.22	0.43	0.15	0.04	
11	0.00	0.00	0.00	0.00	0.00	3.56	11.85	2.30	1.18	0.43	0.14	0.03	
12	0.00	0.00	0.00	0.00	0.00	15.48	10.05	2.22	1.10	0.43	0.14	0.03	
13	0.00	0.00	0.00	0.00	0.00	20.56	8.24	2.18	1.04	0.42	0.14	0.02	
14	0.00	0.00	0.00	0.00	0.00	21.32	6.41	2.14	0.98	0.40	0.13	0.01	
15	0.00	0.00	0.00	0.00	0.00	19.32	5.41	2.06	0.92	0.39	0.12	0.01	
16	0.00	0.00	0.00	0.00	0.00	12.20	4.87	1.94	0.86	0.39	0.12	0.00	
17	0.00	0.00	0.00	0.00	0.00	8.06	4.52	1.94	0.82	0.37	0.11	0.00	
18	0.00	0.00	0.00	0.00	0.00	8.42	4.20	1.87	0.78	0.36	0.11	0.00	
19	0.00	0.00	0.00	0.00	0.00	10.63	3.88	1.90	0.74	0.34	0.11	0.00	
20	0.00	0.00	0.00	0.00	0.00	20.56	3.62	1.94	0.70	0.32	0.11	0.00	
21	0.00	0.00	0.00	0.00	0.00	27.40	3.32	2.14	0.66	0.31	0.09	0.00	
22	0.00	0.00	0.00	0.00	0.00	28.76	3.15	2.26	0.64	0.30	0.08	0.00	
23	0.00	0.00	0.00	0.00	0.00	27.40	3.00	2.42	0.62	0.28	0.07	0.00	
24	0.00	0.00	0.00	0.00	0.00	26.64	2.90	2.46	0.62	0.27	0.06	0.00	
25	0.00	0.00	0.00	0.00	0.00	25.12	2.80	2.30	0.60	0.27	0.04	0.00	
26	0.00	0.00	0.00	0.00	0.00	22.84	2.66	2.18	0.56	0.27	0.04	0.00	
27	0.00	0.00	0.00	0.00	0.00	19.32	2.62	2.06	0.54	0.27	0.04	0.00	
28	0.00	0.00	0.00	0.00	0.00	16.44	2.58	1.94	0.52	0.26	0.04	0.00	
29	0.00	0.00	0.00	0.00	0.00	13.25	2.50	1.84	0.50	0.25	0.04	0.00	
30	0.00	0.00	0.00	0.00	0.00	10.05	2.42	1.78	0.50	0.25		0.00	
31		0.00		0.00	0.00		2.38		0.49	0.23		0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	357.37	167.47	65.59	29.83	11.29	3.44	0.53	635.52 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.00	11.91	5.40	2.19	0.96	0.36	0.12	0.02	1.74 CMS
MAX	0.00	0.00	0.00	0.00	0.00	28.76	11.85	2.46	1.72	0.48	0.21	0.05	28.76 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	2.38	1.78	0.49	0.23	0.04	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.000	30.877	14.469	5.667	2.577	0.975	0.297	0.046	54.909 MCM

MOMENTARY PEAK 28.76 CMS, AT 128.11 M (MSL), AT 16.00 HOURS, ON SEP 21, 1987

RUNOFF YIELD 1.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 21.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

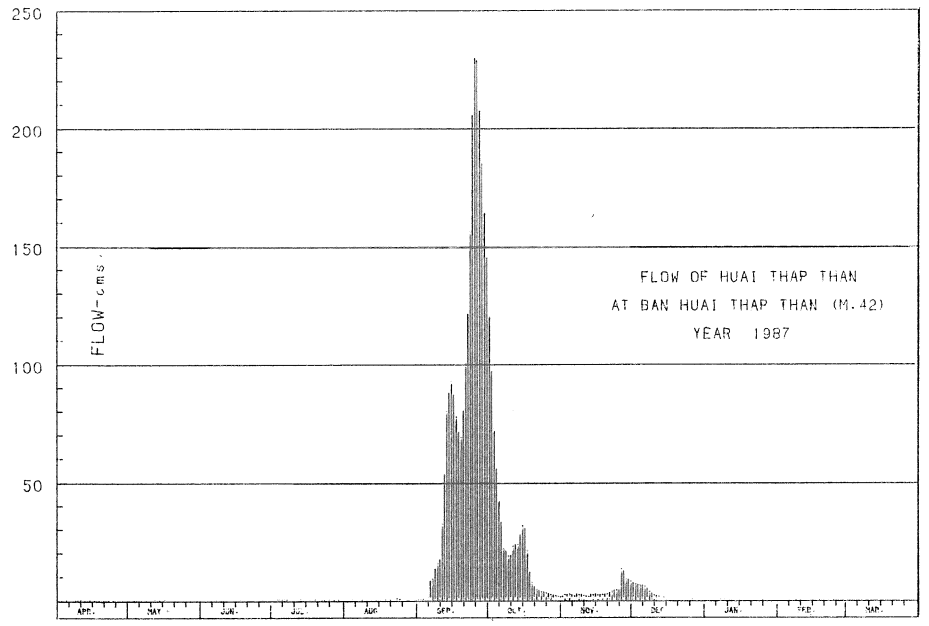
HUAI THAP THAN AT BAN HUAI THAP THAN, SI SA KET (M.42)

LOCATION	LAT. 15°-02'-42" N., LONG. 104°-01'-29" E., ON LEFT BANK AT THE BRIDGE ON HIGHWAY, AMPHOE UTHUMPHON PHISAI, SI SA KET.
DRAINAGE AREA	1,794 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK UNDER TAMARIND TREE INFRONT OF THE JOSS HOUSE, ABOUT 120 METERS FROM THE GAGE SITE.
ELEVATION	+9.820 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 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 - 1981, 1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 - 1981, 1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (AD), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.40	0.56	0.56	0.51	0.48	7.98	0.86	1.71	0.49	0.46	0.40	
2	0.43	0.35	0.55	0.56	0.48	0.55	7.52	0.98	1.65	0.49	0.46	0.41	
3	0.47	0.43	0.54	0.53	0.48	0.60	6.85	0.98	1.61	0.48	0.46	0.40	
4	0.48	0.37	0.51	0.57	0.52	0.61	5.94	1.03	1.58	0.48	0.46	0.40	
5	0.46	0.38	0.55	0.55	0.46	0.73	5.03	0.97	1.55	0.48	0.44	0.38	
6	0.44	0.00	0.56	0.58	0.42	1.82	4.24	0.88	1.50	0.47	0.44	0.39	
7	0.45	0.00	0.52	0.54	0.52	1.93	3.27	1.02	1.37	0.48	0.44	0.38	
8	0.45	0.43	0.52	0.53	0.49	2.43	3.19	0.97	1.21	0.51	0.43	0.38	
9	0.50	0.46	0.64	0.56	0.46	2.69	3.00	0.97	1.06	0.51	0.43	0.39	
10	0.47	0.46	0.63	0.54	0.45	2.84	3.03	0.93	0.95	0.51	0.45	0.38	
11	0.45	0.47	0.61	0.52	0.41	4.18	3.38	0.87	0.87	0.50	0.44	0.39	
12	0.43	0.47	0.56	0.55	0.46	5.77	3.44	0.83	0.84	0.48	0.43	0.41	
13	0.43	0.47	0.52	0.53	0.46	7.10	3.45	0.99	0.78	0.49	0.43	0.40	
14	0.43	0.44	0.50	0.52	0.44	7.30	3.79	0.97	0.75	0.48	0.43	0.40	
15	0.43	0.48	0.45	0.52	0.43	7.43	4.12	1.01	0.72	0.50	0.44	0.38	
16	0.43	0.49	0.48	0.51	0.49	7.28	4.01	0.96	0.69	0.50	0.43	0.39	
17	0.43	0.50	0.50	0.51	0.51	7.03	3.22	0.97	0.66	0.50	0.42	0.39	
18	0.43	0.50	0.49	0.52	0.49	6.79	2.27	0.99	0.63	0.50	0.43	0.39	
19	0.41	0.43	0.65	0.52	0.48	6.71	1.75	1.00	0.62	0.49	0.40	0.40	
20	0.43	0.41	0.62	0.51	0.49	7.10	1.48	1.03	0.61	0.48	0.43	0.40	
21	0.44	0.42	0.68	0.48	0.49	7.59	1.33	1.10	0.58	0.48	0.41	0.39	
22	0.40	0.41	0.66	0.49	0.55	7.98	1.25	1.21	0.71	0.48	0.42	0.39	
23	0.40	0.47	0.57	0.48	0.69	8.46	1.19	1.26	0.71	0.48	0.41	0.40	
24	0.37	0.48	0.53	0.50	0.60	8.97	1.15	1.30	0.61	0.50	0.41	0.40	
25	0.37	0.47	0.51	0.47	0.55	9.20	1.09	1.27	0.65	0.48	0.39	0.38	
26	0.37	0.56	0.50	0.51	0.52	9.18	1.04	2.43	0.55	0.47	0.39	0.40	
27	0.37	0.54	0.49	0.46	0.50	9.00	0.99	2.33	0.54	0.49	0.41	0.40	
28	0.37	0.55	0.48	0.45	0.49	8.78	0.94	1.91	0.53	0.46	0.42	0.38	
29	0.37	0.54	0.47	0.49	0.49	8.56	0.90	1.89	0.51	0.47	0.40	0.39	
30	0.41	0.55	0.47	0.49	0.46	8.32	0.84	1.81	0.50	0.48		0.39	
31		0.53		0.50	0.46		0.80		0.49	0.48		0.39	
MEAN	0.43	0.43	0.54	0.52	0.49	5.58	2.98	1.19	0.89	0.49	0.43	0.39	
MAX	0.50	0.56	0.68	0.58	0.69	9.20	7.98	2.43	1.71	0.51	0.46	0.41	9.20
MIN	0.37	0.00	0.45	0.45	0.41	0.48	0.80	0.83	0.49	0.46	0.39	0.38	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.21 M (AD), AT 15.00 HOURS, ON SEP 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (AD), RIVER BED 0.35 M (AD)
LEFT BANK ELEVATION 11.40 M (AD)
RIGHT BANK ELEVATION 11.39 M (AD), DRAINAGE AREA 1794 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.25	0.68	0.68	0.53	0.45	121.50	2.00	7.58	0.48	0.40	0.25	
2	0.33	0.12	0.65	0.68	0.45	0.65	97.04	2.68	7.15	0.48	0.40	0.27	
3	0.43	0.33	0.62	0.59	0.45	0.80	72.90	2.68	6.87	0.45	0.40	0.25	
4	0.45	0.18	0.53	0.71	0.56	0.84	55.86	2.98	6.66	0.45	0.40	0.25	
5	0.40	0.20	0.65	0.65	0.40	1.35	43.39	2.62	6.45	0.45	0.35	0.20	
6	0.35	0.00	0.68	0.74	0.30	8.46	33.38	2.10	6.10	0.43	0.35	0.22	
7	0.37	0.00	0.56	0.62	0.56	9.34	21.97	2.92	5.19	0.45	0.35	0.20	
8	0.37	0.33	0.56	0.59	0.48	13.57	21.09	2.62	4.07	0.53	0.33	0.20	
9	0.50	0.40	0.96	0.68	0.40	15.91	19.00	2.62	3.16	0.53	0.33	0.22	
10	0.43	0.40	0.92	0.62	0.37	17.40	19.33	2.38	2.50	0.53	0.37	0.20	
11	0.37	0.43	0.84	0.56	0.27	32.66	23.18	2.05	2.05	0.50	0.35	0.22	
12	0.33	0.43	0.68	0.65	0.40	53.48	23.84	1.85	1.90	0.45	0.33	0.27	
13	0.33	0.43	0.56	0.59	0.40	80.50	23.95	2.74	1.60	0.48	0.33	0.25	
14	0.33	0.35	0.50	0.56	0.35	88.00	27.98	2.62	1.45	0.45	0.33	0.25	
15	0.33	0.45	0.37	0.56	0.33	93.13	31.94	2.86	1.30	0.50	0.35	0.20	
16	0.33	0.48	0.45	0.53	0.48	87.24	30.62	2.56	1.16	0.50	0.33	0.22	
17	0.33	0.50	0.50	0.53	0.53	78.12	21.42	2.62	1.04	0.50	0.30	0.22	
18	0.33	0.50	0.48	0.56	0.48	71.34	12.13	2.74	0.92	0.50	0.33	0.22	
19	0.27	0.33	1.00	0.56	0.45	69.26	7.90	2.80	0.88	0.48	0.25	0.25	
20	0.33	0.27	0.88	0.53	0.48	80.50	5.96	2.98	0.84	0.45	0.33	0.25	
21	0.35	0.30	1.12	0.45	0.48	100.68	4.91	3.40	0.74	0.45	0.27	0.22	
22	0.25	0.27	1.04	0.48	0.65	121.50	4.35	4.07	1.25	0.45	0.30	0.22	
23	0.25	0.43	0.71	0.45	1.16	156.40	3.94	4.42	1.25	0.45	0.27	0.25	
24	0.18	0.45	0.59	0.50	0.80	205.70	3.70	4.70	0.84	0.50	0.27	0.25	
25	0.18	0.43	0.53	0.43	0.65	231.50	3.34	4.49	1.00	0.45	0.22	0.20	
26	0.18	0.68	0.50	0.53	0.56	229.20	3.04	13.57	0.65	0.43	0.22	0.25	
27	0.18	0.62	0.48	0.40	0.50	209.00	2.74	12.67	0.62	0.48	0.27	0.25	
28	0.18	0.65	0.45	0.37	0.48	185.20	2.44	9.18	0.59	0.40	0.30	0.20	
29	0.18	0.62	0.43	0.48	0.48	165.40	2.20	9.02	0.53	0.43	0.25	0.22	
30	0.27	0.65	0.43	0.48	0.40	145.32	1.90	8.38	0.50	0.45		0.22	
31		0.59		0.50	0.40		1.70		0.48	0.45		0.22	
TOTAL	9.46	12.07	19.35	17.26	15.23	2552.90	748.64	125.32	77.32	14.53	9.28	7.11	3608.47 CMSDAY
MEAN	0.32	0.39	0.65	0.56	0.49	85.10	24.15	4.18	2.49	0.47	0.32	0.23	9.86 CMS
MAX	0.50	0.68	1.12	0.74	1.16	231.50	121.50	13.57	7.58	0.53	0.40	0.27	231.50 CMS
MIN	0.18	0.00	0.37	0.37	0.27	0.45	1.70	1.85	0.48	0.40	0.22	0.20	0.00 CMS
RUNOFF	0.817	1.043	1.672	1.491	1.316	220.571	64.683	10.828	6.680	1.255	0.802	0.614	311.772 MCM

MOMENTARY PEAK 232.80 CMS. AT 9.21 M (AD), AT 15.00 HOURS, ON SEP 25, 1987

RUNOFF YIELD 5.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 129.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

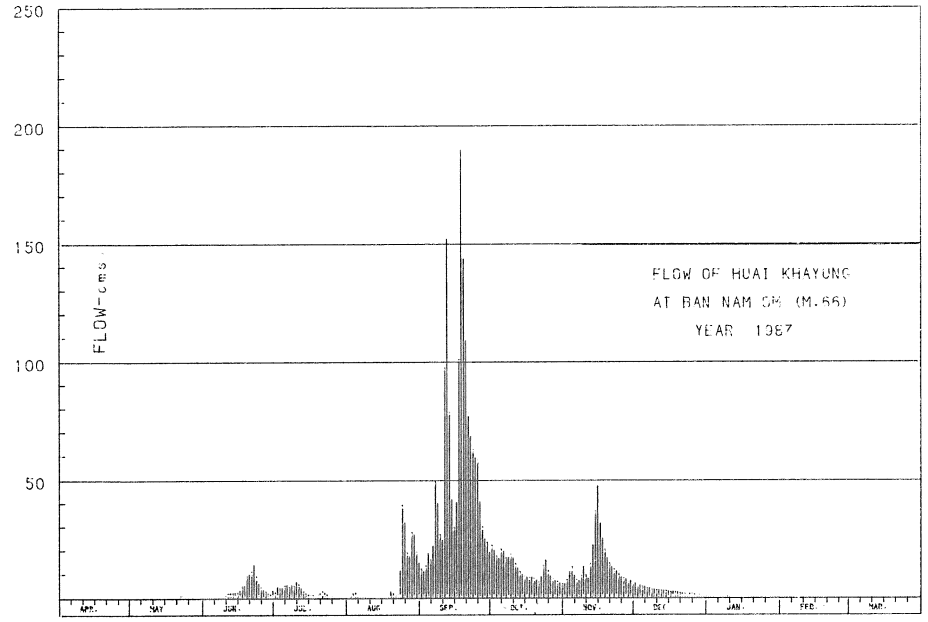
HUAI KHAYUNG AT BAN NAM OM, SI SA KET (M.66)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	AT THE 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 - 1981, 1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1968, 1972 - 1981, 1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.01	-0.01	0.33	0.06	0.95	1.40	0.58	0.60	0.21	0.04	-0.02	
2	0.02	0.02	0.01	0.48	0.17	0.90	1.31	0.71	0.57	0.20	0.04	-0.03	
3	0.03	0.03	0.03	0.46	0.28	1.02	1.20	0.89	0.54	0.18	0.05	-0.03	
4	0.04	0.04	0.01	0.46	0.31	1.25	1.16	0.99	0.51	0.18	0.06	0.02	
5	0.05	0.05	0.02	0.54	0.22	1.14	1.33	0.81	0.50	0.17	0.06	0.02	
6	0.06	0.06	0.02	0.56	0.07	1.38	1.29	0.71	0.46	0.16	0.06	0.02	
7	0.04	0.05	0.05	0.50	0.11	2.34	1.17	0.68	0.45	0.15	0.06	0.01	
8	0.03	0.05	0.06	0.55	0.11	2.05	1.18	0.81	0.42	0.15	0.06	0.01	
9	0.04	0.04	0.06	0.54	0.08	1.58	1.23	0.99	0.41	0.15	0.05	0.01	
10	0.06	0.04	0.18	0.65	0.07	1.49	1.17	0.82	0.40	0.13	0.05	0.00	
11	0.05	0.03	0.28	0.58	0.05	3.69	1.06	0.74	0.40	0.12	0.05	-0.01	
12	0.05	0.02	0.30	0.45	0.04	4.94	0.97	1.06	0.39	0.11	0.04	0.00	
13	0.04	0.01	0.30	0.36	0.05	3.21	0.89	1.40	0.37	0.11	0.04	-0.01	
14	0.03	0.00	0.31	0.29	0.03	2.10	0.83	1.94	0.37	0.12	0.04	-0.01	
15	0.03	-0.01	0.32	0.24	0.01	1.70	0.79	2.28	0.35	0.12	0.05	0.00	
16	0.02	-0.01	0.38	0.23	0.01	2.06	0.77	1.81	0.33	0.10	0.08	-0.01	
17	0.01	-0.01	0.52	0.21	0.09	3.78	0.76	1.52	0.33	0.09	0.07	-0.01	
18	0.01	0.00	0.53	0.20	0.13	5.70	0.77	1.32	0.33	0.09	0.07	-0.01	
19	0.01	0.01	0.81	0.25	0.34	4.79	0.74	1.17	0.32	0.09	0.06	-0.01	
20	0.01	0.01	0.84	0.29	0.28	3.98	0.70	1.07	0.30	0.09	0.07	-0.01	
21	0.01	-0.01	0.90	0.36	0.22	3.20	0.64	0.99	0.27	0.09	0.07	0.01	
22	0.01	-0.01	1.04	0.31	0.22	2.92	0.78	0.94	0.27	0.09	0.06	0.01	
23	0.02	0.00	0.80	0.24	0.91	2.75	1.02	0.90	0.26	0.06	0.07	0.01	
24	0.02	0.00	0.60	0.21	2.03	2.65	1.13	0.83	0.26	0.06	0.06	0.01	
25	0.02	-0.01	0.50	0.18	1.77	2.63	0.91	0.77	0.26	0.06	0.05	0.01	
26	0.02	-0.01	0.41	0.15	1.26	2.07	0.80	0.75	0.24	0.06	0.04	0.01	
27	0.01	-0.01	0.36	0.14	1.19	1.71	0.74	0.72	0.22	0.06	0.03	0.01	
28	0.01	0.00	0.28	0.11	1.62	1.51	0.69	0.70	0.22	0.06	0.02	-0.01	
29	0.01	-0.01	0.24	0.10	1.58	1.45	0.66	0.68	0.22	0.06	0.01	-0.02	
30	0.01	-0.01	0.38	0.09	1.28	1.27	0.60	0.64	0.21	0.06		-0.03	
31		-0.01		0.08	1.08		0.59		0.21	0.06		-0.03	
MEAN	0.03	0.01	0.35	0.33	0.51	2.41	0.94	1.01	0.35	0.11	0.05	0.00	
MAX	0.06	0.06	1.04	0.65	2.03	5.70	1.40	2.28	0.60	0.21	0.08	0.02	5.70
MIN	0.01	-0.01	-0.01	0.08	0.01	0.90	0.59	0.58	0.21	0.06	0.01	-0.03	-0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.81 M (A.D), AT 11.00 HOURS, ON SEP 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.34 M (A.D)
LEFT BANK ELEVATION 7.09 M (A.D)
RIGHT BANK ELEVATION 6.69 M (A.D), DRAINAGE AREA 586 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.04	0.00	2.56	0.24	12.40	22.45	5.92	6.20	1.30	0.16	0.00	
2	0.08	0.08	0.04	4.52	0.96	11.40	20.33	7.78	5.78	1.20	0.16	0.00	
3	0.12	0.12	0.12	4.24	2.00	13.80	17.75	11.20	5.36	1.04	0.20	0.00	
4	0.16	0.16	0.04	4.24	2.32	18.92	16.81	13.20	4.94	1.04	0.24	0.08	
5	0.20	0.20	0.08	5.36	1.40	16.34	20.80	9.60	4.80	0.96	0.24	0.08	
6	0.24	0.24	0.08	5.64	0.28	21.98	19.86	7.78	4.24	0.88	0.24	0.08	
7	0.16	0.20	0.20	4.80	0.48	49.31	17.04	7.32	4.10	0.80	0.24	0.04	
8	0.12	0.20	0.24	5.50	0.48	40.17	17.28	9.60	3.68	0.80	0.24	0.04	
9	0.16	0.16	0.24	5.36	0.32	26.88	18.45	13.20	3.54	0.80	0.20	0.04	
10	0.24	0.16	1.04	6.90	0.28	24.56	17.04	9.80	3.40	0.64	0.20	0.00	
11	0.20	0.12	2.00	5.92	0.20	97.60	14.60	8.32	3.40	0.56	0.20	0.00	
12	0.20	0.08	2.20	4.10	0.16	152.12	12.80	14.60	3.28	0.48	0.16	0.00	
13	0.16	0.04	2.20	2.92	0.20	78.79	11.20	22.45	3.04	0.48	0.16	0.00	
14	0.12	0.00	2.32	2.10	0.12	41.75	10.00	36.88	3.04	0.56	0.16	0.00	
15	0.12	0.00	2.44	1.60	0.04	30.00	9.22	47.42	2.80	0.56	0.20	0.00	
16	0.08	0.00	3.16	1.50	0.04	40.49	8.86	33.15	2.56	0.40	0.32	0.00	
17	0.04	0.00	5.08	1.30	0.36	101.20	8.68	25.32	2.56	0.36	0.28	0.00	
18	0.04	0.00	5.22	1.20	0.64	189.80	8.86	20.57	2.56	0.36	0.28	0.00	
19	0.04	0.04	9.60	1.70	2.68	145.14	8.32	17.04	2.44	0.36	0.24	0.00	
20	0.04	0.04	10.20	2.10	2.00	109.20	7.60	14.80	2.20	0.36	0.28	0.00	
21	0.04	0.00	11.40	2.92	1.40	78.40	6.76	13.20	1.90	0.36	0.28	0.04	
22	0.04	0.00	14.20	2.32	1.40	68.53	9.04	12.20	1.90	0.36	0.24	0.04	
23	0.08	0.00	9.40	1.60	11.60	62.87	13.80	11.40	1.80	0.24	0.28	0.04	
24	0.08	0.00	6.20	1.30	39.54	59.53	16.10	10.00	1.80	0.24	0.24	0.04	
25	0.08	0.00	4.80	1.04	32.01	58.87	11.60	8.86	1.80	0.24	0.20	0.04	
26	0.08	0.00	3.54	0.80	19.16	40.80	9.40	8.50	1.60	0.24	0.16	0.04	
27	0.04	0.00	2.92	0.72	17.52	30.29	8.32	7.96	1.40	0.24	0.12	0.04	
28	0.04	0.00	2.00	0.48	27.92	25.06	7.46	7.60	1.40	0.24	0.08	0.00	
29	0.04	0.00	1.60	0.40	26.88	23.62	7.04	7.32	1.40	0.24	0.04	0.00	
30	0.04	0.00	3.16	0.36	19.63	19.39	6.20	6.76	1.30	0.24		0.00	
31		0.00		0.32	15.00		6.06		1.30	0.24		0.00	
TOTAL	3.16	1.88	105.72	85.82	227.26	1689.21	389.73	429.75	91.52	16.82	6.04	0.64	3047.55 CMSDAY
MEAN	0.11	0.06	3.52	2.77	7.33	56.31	12.57	14.33	2.95	0.54	0.21	0.02	8.33 CMS
MAX	0.24	0.24	14.20	6.90	39.54	189.80	22.45	47.42	6.20	1.30	0.32	0.08	189.80 CMS
MIN	0.04	0.00	0.00	0.32	0.04	11.40	6.06	5.92	1.30	0.24	0.04	0.00	0.00 CMS
RUNOFF	0.273	0.162	9.134	7.415	19.635	145.948	33.673	37.130	7.907	1.453	0.522	0.055	263.308 MCM

MOMENTARY PEAK 195.52 CMS, AT 5.81 M (A.D), AT 11.00 HOURS, ON SEP 18, 1987

RUNOFF YIELD 14.21 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 333.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — BESIDE THE AUTOMATIC GAGE BUILDING.

ELEVATION — +9.985 M.(A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1969 TO DATE

RATING OPERATION

PERIOD OF RATING — 1971, 1973 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971, 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.

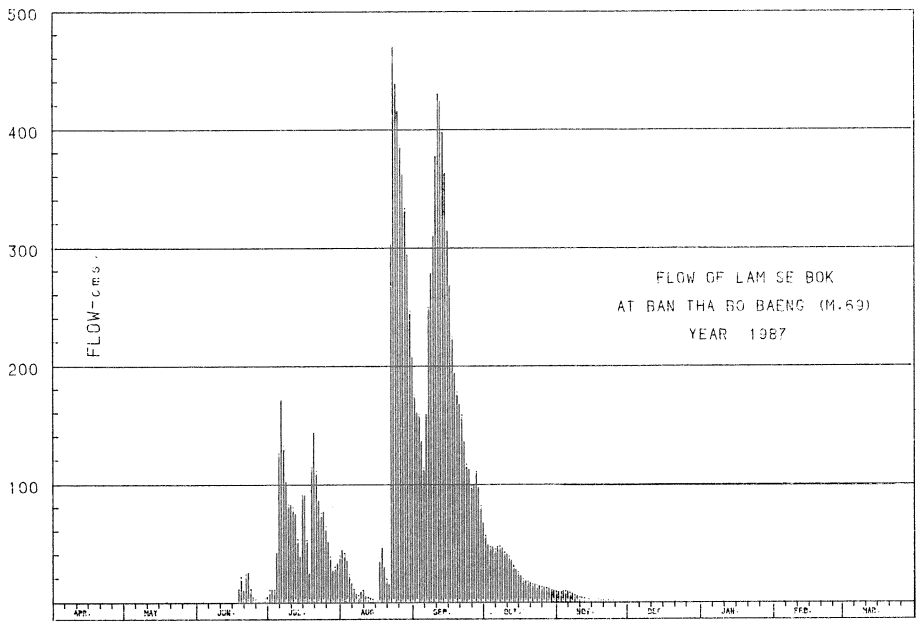
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.66	0.70	1.80	2.86	5.64	4.58	2.41	1.30	0.85	0.68	0.62	
2	0.59	0.67	0.74	1.79	2.79	5.37	4.39	2.41	1.29	0.83	0.68	0.60	
3	0.60	0.68	1.01	1.79	2.62	5.35	4.35	2.46	1.28	0.81	0.67	0.59	
4	0.60	0.70	0.98	2.80	2.28	4.92	4.34	2.48	1.27	0.80	0.67	0.58	
5	0.60	0.69	0.91	4.72	2.01	4.48	4.29	2.44	1.25	0.80	0.67	0.58	
6	0.59	0.69	0.88	5.57	1.81	5.35	4.35	2.37	1.19	0.77	0.67	0.57	
7	0.59	0.71	0.84	4.85	1.62	6.84	4.36	2.27	1.19	0.77	0.67	0.57	
8	0.61	0.72	0.85	4.22	1.57	7.26	4.31	2.17	1.17	0.76	0.67	0.57	
9	0.64	0.73	0.94	3.80	1.70	7.74	4.21	2.07	1.17	0.75	0.67	0.57	
10	0.64	0.76	1.06	3.79	1.77	8.60	4.16	1.99	1.16	0.75	0.67	0.56	
11	0.64	0.92	1.02	3.75	1.49	9.32	4.10	1.91	1.15	0.74	0.67	0.56	
12	0.61	0.84	0.94	3.62	1.42	9.32	3.98	1.83	1.12	0.74	0.66	0.57	
13	0.61	0.79	0.89	3.10	1.33	9.10	3.79	1.73	1.10	0.73	0.66	0.58	
14	0.62	0.75	0.84	2.71	1.24	8.74	3.65	1.67	1.08	0.73	0.66	0.59	
15	0.61	0.73	0.86	3.97	1.17	8.29	3.56	1.65	1.06	0.73	0.65	0.60	
16	0.60	0.71	0.83	3.97	1.36	7.80	3.37	1.66	1.04	0.71	0.65	0.65	
17	0.59	0.70	0.79	3.08	3.92	7.30	3.21	1.67	1.04	0.71	0.66	0.65	
18	0.58	0.69	1.82	2.30	4.39	6.92	3.09	1.64	1.03	0.70	0.65	0.65	
19	0.58	0.68	2.21	4.49	3.73	6.70	3.07	1.59	1.01	0.70	0.65	0.65	
20	0.57	0.67	1.76	5.07	3.21	6.55	2.99	1.53	0.98	0.69	0.65	0.64	
21	0.56	0.67	2.29	4.42	2.88	6.42	2.92	1.48	0.97	0.70	0.64	0.62	
22	0.55	0.70	2.33	3.87	8.18	6.08	2.88	1.45	0.95	0.70	0.63	0.63	
23	0.54	0.69	1.82	3.64	9.73	5.78	2.82	1.41	0.94	0.70	0.63	0.62	
24	0.53	0.67	1.43	3.66	9.43	5.70	2.77	1.39	0.93	0.69	0.63	0.61	
25	0.54	0.68	1.25	3.37	9.10	5.45	2.74	1.38	0.92	0.69	0.63	0.61	
26	0.56	0.90	1.14	3.04	8.72	5.46	2.70	1.39	0.90	0.69	0.63	0.61	
27	0.58	0.96	1.08	2.71	8.39	5.67	2.67	1.38	0.90	0.69	0.63	0.60	
28	0.60	0.87	1.11	2.38	8.02	5.42	2.62	1.37	0.89	0.69	0.63	0.60	
29	0.63	0.81	1.32	2.48	7.49	5.13	2.55	1.35	0.88	0.69	0.62	0.59	
30	0.65	0.77	1.46	2.55	6.80	4.83	2.50	1.33	0.87	0.69		0.59	
31		0.74		2.75	6.17		2.45		0.85	0.69		0.59	
MEAN	0.59	0.74	1.20	3.42	4.17	6.58	3.48	1.80	1.06	0.73	0.65	0.60	
MAX	0.65	0.96	2.33	5.57	9.73	9.32	4.58	2.48	1.30	0.85	0.68	0.65	9.73
MIN	0.53	0.66	0.70	1.79	1.17	4.48	2.45	1.33	0.85	0.69	0.62	0.56	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.78 M (A.D), AT 6.00 HOURS, ON AUG 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.57 M (A.D)
LEFT BANK ELEVATION 9.41 M (A.D)
RIGHT BANK ELEVATION 10.61 M (A.D), DRAINAGE AREA 2132 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.07	0.10	11.00	44.27	175.40	56.65	8.64	1.25	0.30	0.09	0.04	
2	0.03	0.08	0.16	10.78	41.67	160.35	48.65	8.64	1.22	0.26	0.09	0.03	
3	0.03	0.09	0.88	10.78	35.36	159.25	47.25	9.31	1.19	0.23	0.08	0.03	
4	0.03	0.10	0.74	42.04	23.78	136.00	46.90	9.58	1.17	0.22	0.08	0.02	
5	0.03	0.09	0.53	126.00	16.08	114.08	45.15	9.04	1.11	0.22	0.08	0.02	
6	0.03	0.09	0.45	171.20	11.24	159.25	47.25	8.20	0.95	0.18	0.08	0.02	
7	0.03	0.11	0.35	132.50	6.95	249.44	47.60	7.20	0.95	0.18	0.08	0.02	
8	0.04	0.13	0.38	102.12	6.05	278.20	45.85	6.20	0.90	0.17	0.08	0.02	
9	0.06	0.15	0.62	83.00	8.75	312.76	42.35	5.20	0.90	0.16	0.08	0.02	
10	0.06	0.19	1.30	82.55	10.33	377.60	40.80	4.44	0.88	0.16	0.08	0.02	
11	0.06	0.56	0.97	80.75	4.92	433.28	39.00	3.91	0.86	0.15	0.08	0.02	
12	0.04	0.35	0.62	74.90	4.33	423.92	35.50	3.47	0.79	0.15	0.07	0.02	
13	0.04	0.24	0.48	53.50	3.57	400.60	30.78	2.95	0.75	0.14	0.07	0.02	
14	0.04	0.18	0.35	38.70	2.82	363.22	27.70	2.66	0.71	0.14	0.07	0.03	
15	0.04	0.15	0.40	90.65	2.23	316.87	25.82	2.57	0.67	0.14	0.06	0.03	
16	0.03	0.11	0.32	90.65	1.45	268.00	22.22	2.62	0.63	0.11	0.06	0.06	
17	0.03	0.10	0.24	52.70	34.00	224.75	19.66	2.66	0.63	0.11	0.07	0.06	
18	0.02	0.09	11.48	24.35	48.65	194.00	17.90	2.53	0.61	0.10	0.06	0.06	
19	0.02	0.09	21.78	114.54	29.46	178.00	17.61	2.31	0.57	0.10	0.06	0.06	
20	0.02	0.08	10.10	143.85	19.66	167.50	16.46	2.05	0.51	0.09	0.06	0.06	
21	0.02	0.08	24.06	111.32	14.98	158.40	15.52	1.85	0.50	0.10	0.06	0.04	
22	0.02	0.10	25.20	86.15	305.54	136.20	14.98	1.75	0.46	0.10	0.05	0.05	
23	0.01	0.09	11.48	75.80	470.14	116.90	14.17	1.61	0.44	0.10	0.05	0.04	
24	0.01	0.08	4.41	76.70	441.97	112.50	13.50	1.55	0.42	0.09	0.05	0.04	
25	0.01	0.09	2.90	64.30	415.90	98.75	13.09	1.51	0.41	0.09	0.05	0.04	
26	0.02	0.50	1.98	51.10	386.72	99.30	12.55	1.55	0.37	0.09	0.05	0.04	
27	0.02	0.68	1.47	38.70	361.64	110.85	12.15	1.51	0.37	0.09	0.05	0.03	
28	0.03	0.43	1.72	26.63	333.52	97.10	11.47	1.48	0.36	0.09	0.05	0.03	
29	0.05	0.27	3.49	30.17	294.30	81.83	10.52	1.42	0.34	0.09	0.04	0.03	
30	0.06	0.20	4.66	32.76	246.80	67.35	9.85	1.35	0.33	0.09		0.03	
31		0.16		40.18	207.20		9.17		0.30	0.09		0.03	
TOTAL	0.96	5.73	133.62	2170.37	3834.28	6171.65	858.07	119.76	21.55	4.33	1.93	1.06	13323.31 CMSDAY
MEAN	0.03	0.18	4.45	70.01	123.69	205.72	27.68	3.99	0.70	0.14	0.07	0.03	36.40 CMS
MAX	0.06	0.68	25.20	171.20	470.14	433.28	56.65	9.58	1.25	0.30	0.09	0.06	470.14 CMS
MIN	0.01	0.07	0.10	10.78	1.45	67.35	9.17	1.35	0.30	0.09	0.04	0.02	0.01 CMS
RUNOFF	0.083	0.495	11.545	187.520	331.282	533.231	74.137	10.347	1.862	0.374	0.167	0.092	1151.134 MCM

MOMENTARY PEAK 476.04 CMS, AT 9.78 M (A.D), AT 6.00 HOURS, ON AUG 23, 1987
RUNOFF YIELD 17.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 223.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

HUAI KWANG AT BAN KAENG YANG, UBON RATCHATHANI (M.75)

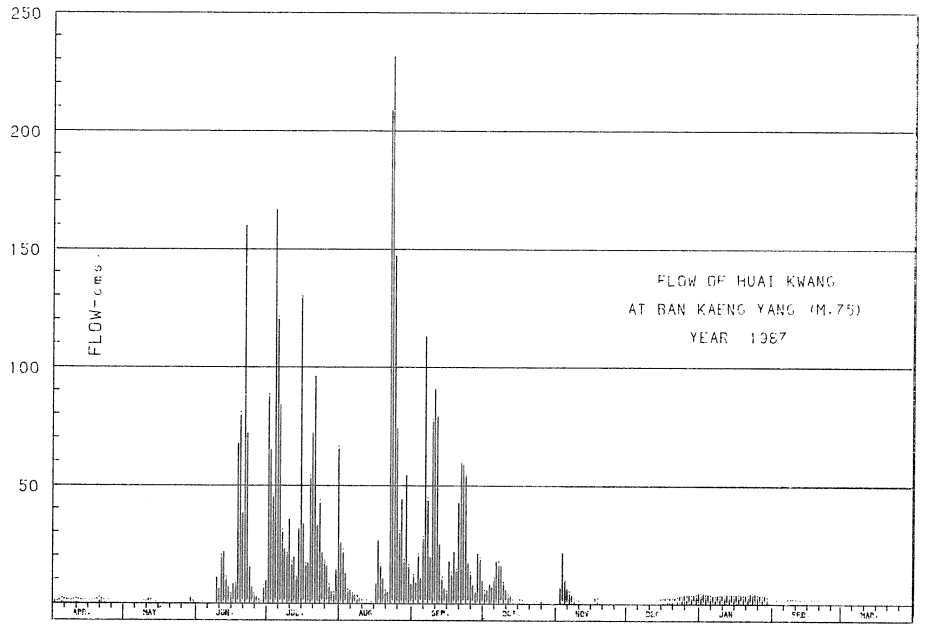
LOCATION — LAT. 15°-09'-53" N., LONG. 105°-17'-01" E., ON LEFT BANK AT THE BRIDGE OF PHIBUN MANGSAHAN-CHONG MEK HIGHWAY NEAR WAT PA THEPBUROM, AMPHOE PHIBUN MANGSAHAN, UBON RATCHATHANI.

DRAINAGE AREA	388 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 9 METERS FROM THE BANK AT WAT PA THEPBUROM.
ELEVATION	+6.775 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 - 1979, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 - 1979, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +5.69 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	0.96	0.88	3.63	2.15	1.83	1.67	1.00	0.89	1.61	1.22	1.19	
2	1.09	0.94	0.97	2.85	2.10	1.75	1.66	1.74	0.85	1.58	1.24	1.15	
3	1.25	0.96	1.08	2.49	1.84	2.05	1.75	2.06	0.84	1.57	1.26	1.21	
4	1.38	0.99	0.95	5.58	1.69	1.79	1.71	1.80	0.83	1.56	1.20	1.14	
5	1.32	1.01	0.90	4.55	1.66	2.21	1.80	1.69	0.79	1.54	1.21	1.09	
6	1.26	1.00	0.85	3.50	1.61	4.31	1.97	1.65	0.77	1.49	1.25	1.11	
7	1.23	0.96	0.82	2.27	1.53	2.47	1.97	1.52	0.77	1.51	1.33	1.11	
8	1.18	1.00	0.93	2.10	1.52	2.01	1.92	1.40	0.77	1.52	1.34	1.06	
9	1.29	1.08	1.83	2.06	1.33	3.31	1.76	1.26	0.78	1.53	1.33	1.05	
10	1.35	1.09	1.69	2.34	1.22	3.69	1.67	1.16	0.79	1.53	1.32	1.07	
11	1.31	1.31	2.04	1.97	1.17	3.38	1.59	1.07	0.83	1.55	1.29	1.06	
12	1.23	1.27	2.07	2.01	1.21	2.14	1.48	1.05	0.87	1.55	1.26	1.09	
13	1.22	1.12	1.81	1.81	1.18	1.81	1.30	1.12	1.09	1.55	1.27	1.08	
14	1.21	1.05	1.71	2.27	1.03	1.69	1.15	1.10	1.23	1.55	1.29	1.06	
15	1.18	1.00	1.60	4.77	1.04	1.65	1.31	1.10	1.34	1.54	1.24	1.09	
16	1.11	0.98	1.74	2.31	1.77	1.97	1.30	1.05	1.36	1.55	1.25	1.08	
17	1.18	0.98	1.75	1.95	2.17	1.86	1.26	1.40	1.38	1.57	1.29	1.08	
18	1.25	0.94	2.95	1.95	1.95	2.07	1.16	1.39	1.40	1.54	1.29	1.07	
19	1.32	0.96	3.40	2.58	1.79	1.89	1.09	1.23	1.38	1.53	1.24	1.05	
20	1.44	0.88	2.38	3.10	1.67	2.44	1.05	1.11	1.40	1.52	1.23	1.01	
21	1.34	0.79	5.46	3.88	1.62	2.69	1.06	1.04	1.39	1.54	1.21	1.03	
22	1.26	0.77	3.10	2.30	6.48	2.65	1.09	1.01	1.45	1.58	1.18	1.01	
23	1.18	0.76	1.94	2.46	6.91	2.59	1.11	0.98	1.49	1.61	1.17	0.99	
24	1.18	0.75	1.71	2.06	5.18	1.95	1.06	0.95	1.51	1.58	1.17	0.99	
25	1.12	0.76	1.59	1.98	3.17	1.86	1.36	0.93	1.52	1.54	1.17	0.96	
26	1.10	0.77	1.44	1.92	2.26	1.73	1.19	0.91	1.53	1.51	1.11	0.96	
27	1.11	0.77	1.30	1.74	2.46	1.69	1.07	0.97	1.55	1.52	1.16	0.98	
28	1.04	0.84	1.19	1.63	1.99	2.05	0.96	1.19	1.55	1.51	1.18	0.98	
29	0.98	1.38	1.73	1.63	2.58	2.01	0.92	1.03	1.54	1.45	1.20	0.98	
30	0.98	1.12	1.77	1.88	1.94	1.77	0.89	0.95	1.57	1.19		1.00	
31		1.00		2.91	1.74		0.87		1.60	1.21		0.97	
MEAN	1.21	0.97	1.79	2.60	2.19	2.24	1.36	1.23	1.20	1.52	1.24	1.05	
MAX	1.44	1.38	5.46	5.58	6.91	4.31	1.97	2.06	1.60	1.61	1.34	1.21	6.91
MIN	0.98	0.75	0.82	1.63	1.03	1.65	0.87	0.91	0.77	1.19	1.11	0.96	0.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.31 M (A.D), AT 20.00 HOURS, ON AUG 22, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.12 M (A.D)
LEFT BANK ELEVATION 5.68 M (A.D)
RIGHT BANK ELEVATION 7.69 M (A.D), DRAINAGE AREA 388 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	0.60	0.40	88.66	25.50	12.20	5.68	0.70	0.43	4.46	1.48	1.37	
2	1.01	0.55	0.63	65.05	23.00	8.65	5.48	8.18	0.33	4.02	1.56	1.22	
3	1.60	0.60	0.98	46.25	12.60	21.00	8.65	21.40	0.30	3.91	1.64	1.44	
4	2.24	0.68	0.58	166.60	6.10	10.53	6.77	11.00	0.27	3.79	1.40	1.19	
5	1.91	0.73	0.45	121.63	5.48	28.50	11.00	6.10	0.18	3.56	1.44	1.01	
6	1.64	0.70	0.33	84.00	4.46	113.02	17.80	5.27	0.14	3.03	1.60	1.08	
7	1.52	0.60	0.25	31.50	3.44	44.75	17.80	3.33	0.14	3.21	1.97	1.08	
8	1.33	0.70	0.53	23.00	3.33	19.40	15.80	2.35	0.14	3.33	2.02	0.91	
9	1.76	0.98	12.20	21.40	1.97	78.30	9.12	1.64	0.16	3.44	1.97	0.87	
10	2.08	1.01	6.10	35.60	1.48	90.81	5.68	1.26	0.18	3.44	1.91	0.95	
11	1.85	1.85	20.60	17.80	1.29	80.40	4.14	0.95	0.27	3.67	1.76	0.91	
12	1.52	1.68	21.80	19.40	1.44	25.00	2.95	0.87	0.38	3.67	1.64	1.01	
13	1.48	1.12	11.40	11.40	1.33	11.40	1.80	1.12	1.01	3.67	1.68	0.98	
14	1.44	0.87	6.77	31.50	0.80	6.10	1.22	1.05	1.52	3.67	1.76	0.91	
15	1.33	0.70	4.25	130.15	0.84	5.27	1.85	1.05	2.02	3.56	1.56	1.01	
16	1.08	0.65	8.18	33.65	9.59	17.80	1.80	0.87	2.13	3.67	1.60	0.98	
17	1.33	0.65	8.65	17.00	26.50	13.40	1.64	2.35	2.24	3.91	1.76	0.98	
18	1.60	0.55	67.65	17.00	17.00	21.80	1.26	2.30	2.35	3.56	1.76	0.95	
19	1.91	0.60	81.00	54.20	10.53	14.60	1.01	1.52	2.24	3.44	1.56	0.87	
20	2.65	0.40	38.20	72.00	5.68	42.50	0.87	1.08	2.35	3.33	1.52	0.73	
21	2.02	0.18	161.20	97.62	4.66	60.77	0.91	0.84	2.30	3.56	1.44	0.80	
22	1.64	0.14	72.00	33.00	210.00	58.65	1.01	0.73	2.73	4.02	1.33	0.73	
23	1.33	0.12	16.60	44.00	231.50	55.10	1.08	0.65	3.03	4.46	1.29	0.68	
24	1.33	0.10	6.77	21.40	148.60	17.00	0.91	0.58	3.21	4.02	1.29	0.68	
25	1.12	0.12	4.14	18.20	74.10	13.40	2.13	0.53	3.33	3.56	1.29	0.60	
26	1.05	0.14	2.65	15.80	31.00	7.71	1.37	0.48	3.44	3.21	1.08	0.60	
27	1.08	0.14	1.80	8.18	44.00	6.10	0.95	0.63	3.67	3.33	1.26	0.65	
28	0.84	0.30	1.37	4.86	18.60	21.00	0.60	1.37	3.67	3.21	1.33	0.65	
29	0.65	2.24	7.71	4.86	54.20	19.40	0.50	0.80	3.56	2.73	1.40	0.65	
30	0.65	1.12	9.59	14.20	16.60	9.59	0.43	0.58	3.91	1.37		0.70	
31		0.70		66.57	8.18		0.38		4.25	1.44		0.63	
TOTAL	43.97	21.52	574.78	1416.48	1003.80	934.15	132.59	81.58	55.88	107.25	45.30	27.82	4445.12 CMSDAY
MEAN	1.47	0.69	19.16	45.69	32.38	31.14	4.28	2.72	1.80	3.46	1.56	0.90	12.15 CMS
MAX	2.65	2.24	161.20	166.60	231.50	113.02	17.80	21.40	4.25	4.46	2.02	1.44	231.50 CMS
MIN	0.65	0.10	0.25	4.86	0.80	5.27	0.38	0.48	0.14	1.37	1.08	0.60	0.10 CMS
RUNOFF	3.799	1.859	49.661	122.384	86.728	80.711	11.456	7.049	4.828	9.266	3.914	2.404	384.058 MCM

MOMENTARY PEAK 252.05 CMS, AT 7.31 M (A.D), AT 20.00 HOURS, ON AUG 22, 1987

RUNOFF YIELD 31.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 649.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 FROM THE BRIDGE ON ROAD, AMPHOE DET UDOM, UBON RATCHATHANI.

DRAINAGE AREA — 3,363 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +117.262 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +130.912 M.(M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

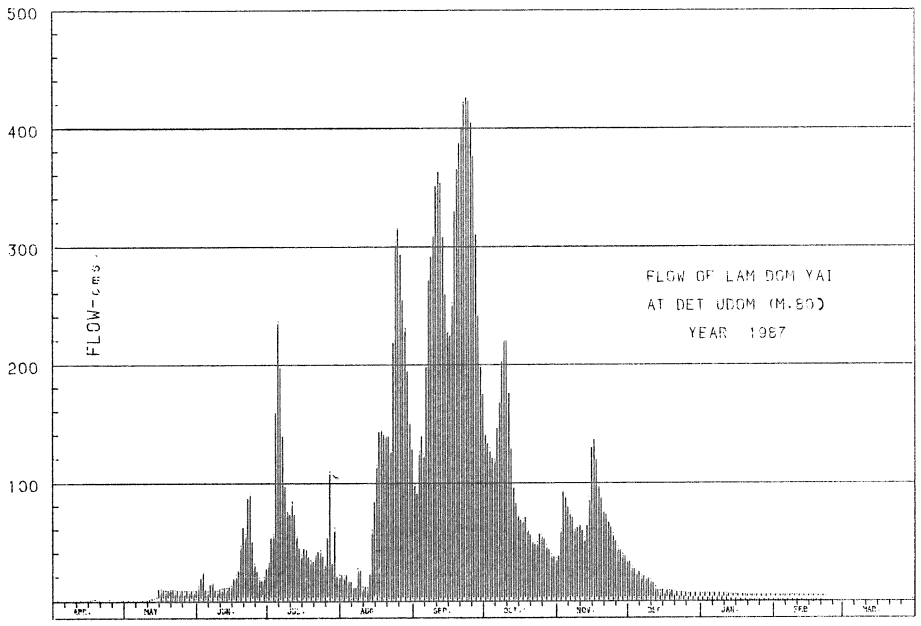
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	117.89	117.87	118.71	119.27	118.97	120.92	121.79	119.41	119.28	121.56	121.52	121.43	
2	117.89	117.87	118.88	119.84	118.97	120.72	121.59	120.04	119.17	121.56	121.52	121.43	
3	117.89	117.86	119.10	119.94	118.96	121.46	121.52	120.75	119.11	121.56	121.52	121.44	
4	117.89	117.86	118.52	122.09	118.90	121.71	121.35	120.72	119.07	121.56	121.52	121.45	
5	117.89	117.86	118.49	123.46	118.79	121.42	121.33	120.46	119.04	121.56	121.52	121.45	
6	117.89	117.86	118.72	122.77	118.71	122.78	121.84	120.39	118.96	121.56	121.52	121.45	
7	117.89	117.86	118.86	121.77	118.59	124.06	122.29	120.26	118.94	121.56	121.52	121.44	
8	117.89	117.86	118.51	120.86	119.13	124.33	122.86	120.04	118.92	121.56	121.52	121.41	
9	117.89	117.86	118.50	120.37	119.07	124.65	123.20	120.07	118.88	121.56	121.52	121.41	
10	117.89	117.88	118.55	120.32	118.66	125.26	123.17	120.16	118.86	121.56	121.52	121.41	
11	117.89	117.98	118.60	120.58	118.64	125.49	122.44	120.01	119.70	121.56	121.52	121.41	
12	117.89	118.05	118.61	120.32	118.62	125.30	121.50	119.85	121.38	121.54	121.52	121.41	
13	117.89	118.06	118.61	119.91	118.98	124.64	120.89	120.10	121.62	121.54	121.51	121.40	
14	117.89	118.15	118.63	119.60	120.03	123.82	120.53	120.66	121.61	121.54	121.51	121.40	
15	117.91	118.54	118.71	119.46	120.56	123.33	120.33	121.52	121.62	121.54	121.51	121.40	
16	117.95	118.56	118.87	119.59	121.25	123.24	120.21	121.72	121.62	121.53	121.51	121.40	
17	117.98	118.52	118.99	119.57	121.78	123.71	120.24	121.32	121.61	121.53	121.51	121.40	
18	118.01	118.51	119.07	119.39	121.85	124.93	120.26	120.90	121.61	121.53	121.51	121.43	
19	117.98	118.50	119.67	119.32	121.74	125.52	120.05	120.63	121.61	121.53	121.51	121.44	
20	117.95	118.54	120.07	119.28	121.76	125.81	119.91	120.43	121.60	121.52	121.51	121.46	
21	117.94	118.53	119.94	119.44	121.71	126.06	119.80	120.32	121.58	121.52	121.51	121.47	
22	117.93	118.52	120.63	119.52	121.50	126.34	119.69	120.22	121.58	121.52	121.50	121.48	
23	117.92	118.50	120.76	119.56	123.14	126.44	119.75	120.08	121.58	121.52	121.48	121.48	
24	117.95	118.50	119.75	119.41	124.53	126.35	119.93	119.95	121.58	121.52	121.46	121.48	
25	117.94	118.50	119.25	119.23	124.71	126.12	119.93	119.77	121.57	121.52	121.44	121.47	
26	117.93	118.50	119.05	119.84	124.41	125.64	119.82	119.64	121.56	121.52	121.44	121.46	
27	117.91	118.50	118.91	121.14	123.74	124.67	119.68	119.55	121.56	121.52	121.44	121.41	
28	117.90	118.49	118.82	119.23	123.35	123.52	119.56	119.47	121.56	121.52	121.44	121.41	
29	117.89	118.49	118.93	120.07	122.72	122.82	119.46	119.41	121.56	121.52	121.44	121.42	
30	117.89	118.51	119.11	118.93	121.97	122.37	119.39	119.35	121.56	121.52		121.44	
31		118.50		118.98	121.49		119.36		121.56	121.52		121.45	
MEAN	117.91	118.24	119.06	120.10	120.88	124.11	120.76	120.24	120.69	121.54	121.50	121.43	
MAX	118.01	118.56	120.76	123.46	124.71	126.44	123.20	121.72	121.62	121.56	121.52	121.48	126.44
MIN	117.89	117.86	118.49	118.93	118.59	120.72	119.36	119.35	118.86	121.52	121.44	121.40	117.86

ANNUAL MAX MOMENTARY GAGE HEIGHT 126.45 M (MSL), AT 18.00 HOURS, ON SEP 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 117.26 M (MSL), RIVER BED 117.34 M (MSL)
LEFT BANK ELEVATION 129.24 M (MSL)
RIGHT BANK ELEVATION 128.43 M (MSL), DRAINAGE AREA 3363 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.67	0.53	13.33	32.72	21.98	99.48	143.29	37.76	33.08	6.40	4.80	1.20	
2	0.67	0.53	18.94	53.24	21.98	90.68	133.09	60.76	29.12	6.40	4.80	1.20	
3	0.67	0.45	26.60	56.84	21.64	126.46	129.52	92.00	26.96	6.40	4.80	1.60	
4	0.67	0.45	9.40	159.04	19.60	139.21	120.85	90.68	25.52	6.40	4.80	2.00	
5	0.67	0.45	8.80	237.60	15.97	124.42	119.83	79.24	24.44	6.40	4.80	2.00	
6	0.67	0.45	13.66	197.12	13.33	197.68	145.84	76.16	21.64	6.40	4.80	2.00	
7	0.67	0.45	18.28	142.27	10.80	273.84	170.24	70.44	20.95	6.40	4.80	1.60	
8	0.67	0.45	9.20	96.84	27.68	291.12	202.16	60.76	20.28	6.40	4.80	0.40	
9	0.67	0.45	9.00	75.28	25.52	311.60	222.00	62.08	18.94	6.40	4.80	0.40	
10	0.67	0.60	10.00	73.08	12.20	351.16	220.20	66.04	18.28	6.40	4.80	0.40	
11	0.67	1.35	11.00	84.52	11.80	366.34	178.64	59.44	15.00	6.40	4.80	0.40	
12	0.67	2.00	11.20	73.08	11.40	353.80	128.50	53.60	12.20	5.60	4.80	0.40	
13	0.67	2.10	11.20	55.76	22.32	310.96	98.16	63.40	9.20	5.60	4.40	0.00	
14	0.67	3.25	11.60	44.60	60.32	259.20	82.32	88.04	8.60	5.60	4.40	0.00	
15	0.83	9.80	13.33	39.56	83.64	229.80	73.52	129.52	9.20	5.60	4.40	0.00	
16	1.13	10.20	18.61	44.24	115.75	224.40	68.24	139.72	9.20	5.20	4.40	0.00	
17	1.35	9.40	22.66	43.52	142.78	252.60	69.56	119.32	8.60	5.20	4.40	0.00	
18	1.60	9.20	25.52	37.04	146.35	329.52	70.44	98.60	8.60	5.20	4.40	1.20	
19	1.35	9.00	47.12	34.52	140.74	368.32	61.20	86.72	8.60	5.20	4.40	1.60	
20	1.13	9.80	62.08	33.08	141.76	387.46	55.76	77.92	8.00	4.80	4.40	2.40	
21	1.05	9.60	56.84	38.84	139.21	404.00	51.80	73.08	7.20	4.80	4.40	2.80	
22	0.97	9.40	86.72	41.72	128.50	422.67	47.84	68.68	7.20	4.80	4.00	3.20	
23	0.90	9.00	92.44	43.16	218.40	429.33	50.00	62.52	7.20	4.80	3.20	3.20	
24	1.13	9.00	50.00	37.76	303.92	423.33	56.48	57.20	7.20	4.80	2.40	3.20	
25	1.05	9.00	32.00	31.28	315.44	408.00	56.48	50.72	6.80	4.80	1.60	2.80	
26	0.97	9.00	24.80	53.24	296.24	376.24	52.52	46.04	6.40	4.80	1.60	2.40	
27	0.83	9.00	19.94	110.14	254.40	312.88	47.48	42.80	6.40	4.80	1.60	0.40	
28	0.75	8.80	16.96	31.28	231.00	241.20	43.16	39.92	6.40	4.80	1.60	0.40	
29	0.67	8.80	20.62	62.08	194.32	199.92	39.56	37.76	6.40	4.80	1.60	0.80	
30	0.67	9.20	26.96	20.62	152.47	174.72	37.04	35.60	6.40	4.80		1.60	
31		9.00		22.32	127.99		35.96		6.40	4.80		2.00	
TOTAL	25.76	170.71	798.81	2106.39	3429.45	8480.34	3011.68	2126.52	410.41	171.20	114.80	41.60	20887.67 CMSDAY
MEAN	0.86	5.51	26.63	67.95	110.63	282.68	97.15	70.88	13.24	5.52	3.96	1.34	57.07 CMS
MAX	1.60	10.20	92.44	237.60	315.44	429.33	222.00	139.72	33.08	6.40	4.80	3.20	429.33 CMS
MIN	0.67	0.45	8.80	20.62	10.80	90.68	35.96	35.60	6.40	4.80	1.60	0.00	0.00 CMS
RUNOFF	2.226	14.749	69.017	181.992	296.304	732.701	260.209	183.731	35.459	14.792	9.919	3.594	1804.695 MCM

MOMENTARY PEAK 430.00 CMS, AT 126.45 M (MSL), AT 18.00 HOURS, ON SEP 23, 1987

RUNOFF YIELD 16.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 127.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

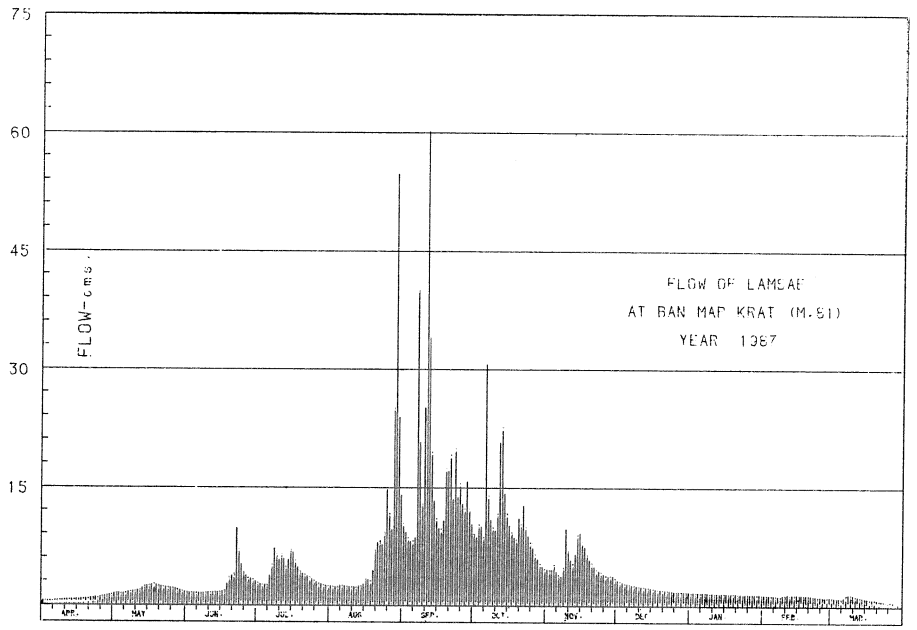
LAM SAE AT BAN MAP KRAT, NAKHON RATCHASIMA (M.81)

LOCATION	LAT. 14°-23'-51" N., LONG. 102°-15'-20" E., ON RIGHT BANK ABOUT 3 KILOMETERS UPSTREAM FROM DAM SITE AT BAN MAP KRAT, TAMBON KHOK KRACHAI, AMPHOE KHON BURI, NAKHON RATCHASIMA.
DRAINAGE AREA	482 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+208.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	IN THE VICINITY OF STATION OFFICE.
ELEVATION	+214.011 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	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 - 1969, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968 - 1969, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW EFFECTED BY LAM SAE DAM DOWNSTREAM. STAGE-DISCHARGE RELATION DEFINED BY 70 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	209.54	210.15	210.29	210.92	210.73	212.03	211.91	211.42	211.03	210.31	210.12	209.91	
2	209.55	210.24	210.26	210.86	210.71	211.93	211.86	211.40	210.99	210.31	210.10	209.87	
3	209.55	210.21	210.27	210.82	210.69	211.86	212.02	211.41	210.95	210.30	210.08	209.85	
4	209.53	210.18	210.26	210.80	210.69	211.81	212.00	211.52	210.90	210.29	210.06	209.85	
5	209.52	210.18	210.24	210.81	210.77	211.82	211.87	211.37	210.87	210.28	210.05	209.81	
6	209.56	210.24	210.21	211.23	210.77	211.86	212.67	211.27	210.83	210.29	210.03	209.91	
7	209.56	210.29	210.23	211.52	210.74	212.85	212.22	211.20	210.79	210.29	210.01	210.12	
8	209.59	210.34	210.22	211.72	210.71	212.43	212.06	211.47	210.78	210.27	210.00	210.18	
9	209.61	210.36	210.26	211.65	210.69	212.17	211.99	211.97	210.74	210.25	210.07	210.16	
10	209.63	210.39	210.28	211.58	210.68	212.54	211.95	211.72	210.71	210.25	210.12	210.11	
11	209.64	210.44	210.29	211.65	210.67	213.14	212.11	211.58	210.69	210.24	210.16	210.06	
12	209.65	210.47	210.31	211.59	210.66	212.74	212.43	211.53	210.68	210.23	210.15	210.00	
13	209.66	210.59	210.31	211.48	210.73	212.40	212.48	211.65	210.66	210.22	210.13	209.96	
14	209.66	210.70	210.30	211.58	210.73	212.19	212.23	211.90	210.64	210.22	210.12	209.91	
15	209.68	210.74	210.33	211.71	210.85	212.07	212.11	211.92	210.61	210.22	210.13	209.86	
16	209.68	210.75	210.37	211.67	211.08	211.98	212.01	211.81	210.57	210.21	210.12	209.82	
17	209.69	210.82	210.43	211.57	211.05	211.97	211.93	211.74	210.53	210.21	210.11	209.78	
18	209.70	210.84	210.86	211.47	211.01	212.05	211.86	211.65	210.51	210.21	210.10	209.75	
19	209.72	210.79	211.16	211.37	211.39	212.34	211.84	211.58	210.50	210.22	210.09	209.76	
20	209.74	210.73	211.22	211.31	211.70	212.33	212.07	211.54	210.48	210.20	210.07	209.72	
21	209.78	210.69	211.30	211.27	211.80	212.39	212.02	211.48	210.47	210.18	210.05	209.68	
22	209.81	210.67	211.98	211.21	211.82	212.20	212.16	211.41	210.47	210.15	210.02	209.65	
23	209.84	210.66	211.71	211.15	211.77	212.41	212.00	211.38	210.43	210.15	209.98	209.60	
24	209.85	210.63	211.52	211.09	211.93	212.21	211.88	211.35	210.41	210.15	209.95	209.54	
25	209.87	210.61	211.35	211.02	212.25	212.28	211.80	211.29	210.38	210.16	209.95	209.50	
26	209.94	210.59	211.23	210.96	212.11	212.17	211.73	211.24	210.38	210.14	209.92	209.58	
27	209.99	210.57	211.13	210.90	211.96	212.14	211.65	211.20	210.38	210.15	209.90	209.51	
28	210.03	210.51	211.10	210.85	212.54	212.29	211.59	211.23	210.36	210.15	209.90	209.51	
29	210.07	210.45	211.06	210.81	213.07	212.14	211.53	211.22	210.35	210.15	209.93	209.33	
30	210.11	210.40	210.99	210.76	212.52	212.02	211.49	211.12	210.33	210.15		209.26	
31		210.32		210.75	212.22		211.43		210.32	210.13		209.24	
MEAN	209.72	210.50	210.72	211.23	211.32	212.23	211.96	211.49	210.60	210.22	210.05	209.77	
MAX	210.11	210.84	211.98	211.72	213.07	213.14	212.67	211.97	211.03	210.31	210.16	210.18	213.14
MIN	209.52	210.15	210.21	210.75	210.66	211.81	211.43	211.12	210.32	210.13	209.90	209.24	209.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 213.23 M (MSL), AT 14.00 HOURS, ON AUG 29, 1987
ZERO GAGE AT BOTTOM ELEVATION 208.00 M (MSL), RIVER BED 208.16 M (MSL)
LEFT BANK ELEVATION 213.92 M (MSL)
RIGHT BANK ELEVATION 213.47 M (MSL), DRAINAGE AREA 482 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.510	1.425	1.635	2.860	2.460	10.450	9.100	4.600	3.190	1.665	1.380	1.065	
2	0.525	1.560	1.590	2.720	2.420	9.300	8.600	4.500	3.070	1.665	1.350	1.005	
3	0.525	1.515	1.605	2.640	2.380	8.600	10.300	4.550	2.950	1.650	1.320	0.975	
4	0.495	1.470	1.590	2.600	2.380	8.100	10.000	5.200	2.800	1.635	1.290	0.975	
5	0.480	1.470	1.560	2.620	2.540	8.200	8.700	4.350	2.740	1.620	1.275	0.915	
6	0.540	1.560	1.515	3.790	2.540	8.600	30.650	3.910	2.660	1.635	1.245	1.065	
7	0.540	1.635	1.545	5.200	2.480	40.000	14.000	3.700	2.580	1.635	1.215	1.380	
8	0.585	1.710	1.530	7.200	2.420	20.700	10.900	4.850	2.560	1.605	1.200	1.470	
9	0.615	1.740	1.590	6.500	2.380	12.900	9.900	9.700	2.480	1.575	1.305	1.440	
10	0.645	1.785	1.620	5.800	2.360	25.100	9.500	7.200	2.420	1.575	1.380	1.365	
11	0.660	1.880	1.635	6.500	2.340	60.600	11.700	5.800	2.380	1.560	1.440	1.290	
12	0.675	1.940	1.665	5.900	2.320	34.000	20.700	5.300	2.360	1.545	1.425	1.200	
13	0.690	2.180	1.665	4.900	2.460	19.500	22.700	6.500	2.320	1.530	1.395	1.140	
14	0.690	2.400	1.650	5.800	2.460	13.300	14.250	9.000	2.280	1.530	1.380	1.065	
15	0.720	2.480	1.695	7.100	2.700	11.050	11.700	9.200	2.220	1.530	1.395	0.990	
16	0.720	2.500	1.755	6.700	3.340	9.800	10.150	8.100	2.140	1.515	1.380	0.930	
17	0.735	2.640	1.860	5.700	3.250	9.700	9.300	7.400	2.060	1.515	1.365	0.870	
18	0.750	2.680	2.720	4.850	3.130	10.750	8.600	6.500	2.020	1.515	1.350	0.825	
19	0.780	2.580	3.580	4.350	4.450	17.400	8.400	5.800	2.000	1.530	1.335	0.840	
20	0.810	2.460	3.760	4.050	7.000	17.050	11.050	5.400	1.960	1.500	1.305	0.780	
21	0.870	2.380	4.000	3.910	8.000	19.150	10.300	4.900	1.940	1.470	1.275	0.720	
22	0.915	2.340	9.800	3.730	8.200	13.500	12.700	4.550	1.940	1.425	1.230	0.675	
23	0.960	2.320	7.100	3.550	7.700	19.900	10.000	4.400	1.860	1.425	1.170	0.600	
24	0.975	2.260	5.200	3.370	9.300	13.750	8.800	4.250	1.820	1.425	1.125	0.510	
25	1.005	2.220	4.250	3.160	14.750	15.500	8.000	3.970	1.770	1.440	1.125	0.450	
26	1.110	2.180	3.790	2.980	11.700	12.900	7.300	3.820	1.770	1.410	1.080	0.570	
27	1.185	2.140	3.490	2.800	9.600	12.300	6.500	3.700	1.770	1.425	1.050	0.465	
28	1.245	2.020	3.400	2.700	25.100	15.750	5.900	3.790	1.740	1.425	1.050	0.465	
29	1.305	1.900	3.280	2.620	54.750	12.300	5.300	3.760	1.725	1.425	1.095	0.230	
30	1.365	1.800	3.070	2.520	24.300	10.300	4.950	3.460	1.695	1.425		0.160	
31		1.680		2.500	14.000		4.650		1.680	1.395		0.140	
TOTAL	23.625	62.850	85.145	131.620	245.210	500.450	334.600	162.160	68.900	47.220	36.930	26.570	1725.280 CMSDAY
MEAN	0.788	2.027	2.838	4.246	7.910	16.682	10.794	5.405	2.223	1.523	1.273	0.857	4.714 CMS
MAX	1.365	2.680	9.800	7.200	54.750	60.600	30.650	9.700	3.190	1.665	1.440	1.470	60.600 CMS
MIN	0.480	1.425	1.515	2.500	2.320	8.100	4.650	3.460	1.680	1.395	1.050	0.140	0.140 CMS
RUNOFF	2.041	5.430	7.357	11.372	21.186	43.239	28.909	14.011	5.953	4.080	3.191	2.296	149.064 MCM

MOMENTARY PEAK 69.00 CMS, AT 213.23 M (MSL), AT 14.00 HOURS, ON AUG 29, 1987

RUNOFF YIELD 9.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 143.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

LAM CHI AT BAN CHAROK YAI, BURI RAM (M.85)

LOCATION — LAT. 14°-37'-54" N., LONG. 103°-14'-03" E., ON RIGHT BANK AT THE BRIDGE OF PRASAT-PRAKHONCHAI HIGHWAY NEAR GUIDEPOST 104 AT BAN CHAROK YAI, TAMBON LAVIA, AMPHOE PRAKHON CHAI, BURI RAM.

DRAINAGE AREA — 1,046 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +6.546 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 — 1969 - 1971, 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1969 - 1971, 1979, 1981 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1969 - 1971, 1979, 1981 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

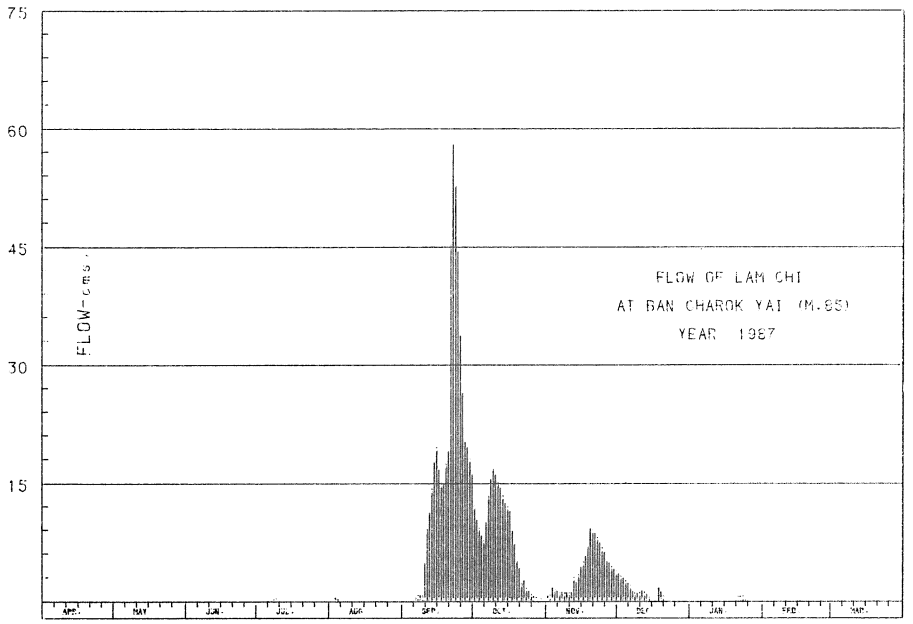
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.30	0.29	0.21	0.48	0.41	2.01	0.62	1.09	0.45	0.33	0.29	
2	0.40	0.28	0.29	0.21	0.46	0.43	1.83	0.65	1.05	0.46	0.32	0.28	
3	0.40	0.28	0.29	0.20	0.56	0.47	1.73	0.83	1.02	0.47	0.31	0.27	
4	0.41	0.28	0.29	0.20	0.50	0.47	1.63	0.80	0.97	0.45	0.30	0.25	
5	0.41	0.27	0.29	0.25	0.44	0.49	1.57	0.75	0.92	0.44	0.28	0.23	
6	0.40	0.25	0.30	0.32	0.41	0.56	1.80	0.73	0.88	0.42	0.26	0.22	
7	0.41	0.25	0.32	0.43	0.41	0.64	2.11	0.72	0.74	0.41	0.23	0.21	
8	0.42	0.25	0.38	0.50	0.40	0.64	2.29	0.71	0.71	0.38	0.25	0.20	
9	0.42	0.26	0.37	0.52	0.37	0.63	2.42	0.71	0.69	0.38	0.28	0.20	
10	0.40	0.27	0.38	0.52	0.36	1.25	2.34	0.71	0.72	0.38	0.28	0.20	
11	0.38	0.43	0.38	0.49	0.35	1.71	2.26	0.72	0.76	0.37	0.28	0.19	
12	0.37	0.39	0.36	0.43	0.35	1.92	2.20	1.03	0.73	0.37	0.28	0.19	
13	0.35	0.32	0.30	0.43	0.37	2.19	2.12	0.94	0.66	0.37	0.28	0.19	
14	0.35	0.30	0.30	0.42	0.38	2.45	2.04	1.07	0.59	0.35	0.28	0.19	
15	0.34	0.28	0.35	0.42	0.39	2.57	2.00	1.19	0.54	0.35	0.28	0.19	
16	0.35	0.28	0.35	0.41	0.40	2.39	1.94	1.28	0.55	0.51	0.28	0.19	
17	0.35	0.29	0.32	0.41	0.41	2.25	1.73	1.36	0.55	0.54	0.27	0.18	
18	0.35	0.30	0.32	0.41	0.41	2.24	1.52	1.52	0.91	0.54	0.27	0.18	
19	0.35	0.30	0.28	0.40	0.42	2.44	1.33	1.72	0.73	0.54	0.27	0.18	
20	0.43	0.30	0.28	0.41	0.42	2.54	1.17	1.71	0.62	0.58	0.26	0.18	
21	0.48	0.30	0.28	0.42	0.44	3.24	0.92	1.66	0.44	0.61	0.26	0.19	
22	0.49	0.30	0.27	0.44	0.45	3.38	0.97	1.61	0.40	0.62	0.25	0.20	
23	0.50	0.30	0.27	0.45	0.44	3.33	0.82	1.54	0.38	0.63	0.24	0.21	
24	0.54	0.30	0.25	0.47	0.44	3.23	0.75	1.48	0.37	0.55	0.23	0.21	
25	0.40	0.31	0.23	0.47	0.43	3.05	0.67	1.42	0.38	0.44	0.23	0.20	
26	0.42	0.35	0.23	0.46	0.41	2.85	0.61	1.33	0.39	0.42	0.23	0.20	
27	0.46	0.32	0.22	0.46	0.38	2.63	0.58	1.26	0.41	0.40	0.22	0.19	
28	0.46	0.30	0.22	0.46	0.38	2.57	0.54	1.20	0.42	0.39	0.33	0.18	
29	0.40	0.29	0.21	0.47	0.39	2.48	0.51	1.16	0.43	0.38	0.33	0.17	
30	0.33	0.29	0.21	0.47	0.40	2.34	0.50	1.13	0.42	0.35		0.16	
31		0.29		0.47	0.41		0.50		0.44	0.34		0.15	
MEAN	0.41	0.30	0.29	0.41	0.41	1.93	1.46	1.12	0.64	0.45	0.27	0.20	
MAX	0.54	0.43	0.38	0.52	0.56	3.38	2.42	1.72	1.09	0.63	0.33	0.29	3.38
MIN	0.33	0.25	0.21	0.20	0.35	0.41	0.50	0.62	0.37	0.34	0.22	0.15	0.15

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.40 M (A.D), AT 18.00 HOURS, ON SEP 22, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -2.75 M (A.D)

LEFT BANK ELEVATION — 5.07 M (A.D)

RIGHT BANK ELEVATION — 5.22 M (A.D), DRAINAGE AREA 1046 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	0.000	0.220	0.027	12.120	0.645	3.520	0.137	0.000	0.000	
2	0.000	0.000	0.000	0.000	0.165	0.083	10.300	0.787	3.200	0.165	0.000	0.000	
3	0.000	0.000	0.000	0.000	0.440	0.192	9.300	1.695	2.960	0.192	0.000	0.000	
4	0.027	0.000	0.000	0.000	0.275	0.192	8.300	1.500	2.605	0.137	0.000	0.000	
5	0.027	0.000	0.000	0.000	0.110	0.247	7.700	1.262	2.280	0.110	0.000	0.000	
6	0.000	0.000	0.000	0.000	0.027	0.440	10.000	1.167	2.020	0.055	0.000	0.000	
7	0.027	0.000	0.000	0.083	0.027	0.740	13.320	1.120	1.215	0.027	0.000	0.000	
8	0.055	0.000	0.000	0.275	0.000	0.740	15.480	1.072	1.072	0.000	0.000	0.000	
9	0.055	0.000	0.000	0.330	0.000	0.692	17.120	1.072	0.977	0.000	0.000	0.000	
10	0.000	0.000	0.000	0.330	0.000	4.800	16.080	1.072	1.120	0.000	0.000	0.000	
11	0.000	0.083	0.000	0.247	0.000	9.100	15.120	1.120	1.310	0.000	0.000	0.000	
12	0.000	0.000	0.000	0.083	0.000	11.200	14.400	3.040	1.167	0.000	0.000	0.000	
13	0.000	0.000	0.000	0.083	0.000	14.280	13.440	2.410	0.835	0.000	0.000	0.000	
14	0.000	0.000	0.000	0.055	0.000	17.600	12.480	3.360	0.522	0.000	0.000	0.000	
15	0.000	0.000	0.000	0.055	0.000	19.520	12.000	4.320	0.385	0.000	0.000	0.000	
16	0.000	0.000	0.000	0.027	0.000	16.680	11.400	5.040	0.413	0.302	0.000	0.000	
17	0.000	0.000	0.000	0.027	0.027	15.000	9.300	5.680	0.413	0.385	0.000	0.000	
18	0.000	0.000	0.000	0.027	0.027	14.880	7.200	7.200	2.215	0.385	0.000	0.000	
19	0.000	0.000	0.000	0.000	0.055	17.440	5.440	9.200	1.167	0.385	0.000	0.000	
20	0.083	0.000	0.000	0.027	0.055	19.040	4.160	9.100	0.645	0.495	0.000	0.000	
21	0.220	0.000	0.000	0.055	0.110	45.200	2.280	8.600	0.110	0.598	0.000	0.000	
22	0.247	0.000	0.000	0.110	0.137	58.000	2.605	8.100	0.000	0.645	0.000	0.000	
23	0.275	0.000	0.000	0.137	0.110	53.000	1.630	7.400	0.000	0.692	0.000	0.000	
24	0.385	0.000	0.000	0.192	0.110	44.400	1.262	6.800	0.000	0.413	0.000	0.000	
25	0.000	0.000	0.000	0.192	0.083	34.125	0.883	6.200	0.000	0.110	0.000	0.000	
26	0.055	0.000	0.000	0.165	0.027	26.400	0.598	5.440	0.000	0.055	0.000	0.000	
27	0.165	0.000	0.000	0.165	0.000	20.705	0.495	4.880	0.027	0.000	0.000	0.000	
28	0.165	0.000	0.000	0.165	0.000	19.520	0.385	4.400	0.055	0.000	0.000	0.000	
29	0.000	0.000	0.000	0.192	0.000	18.080	0.302	4.080	0.083	0.000	0.000	0.000	
30	0.000	0.000	0.000	0.192	0.000	16.080	0.275	3.840	0.055	0.000		0.000	
31		0.000		0.192	0.027		0.275		0.110	0.000		0.000	
TOTAL	1.786	0.083	0.000	3.406	2.032	498.403	235.650	121.602	30.481	5.288	0.000	0.000	898.731 CMSDAY
MEAN	0.060	0.003	0.000	0.110	0.066	16.613	7.602	4.053	0.983	0.171	0.000	0.000	2.456 CMS
MAX	0.385	0.083	0.000	0.330	0.440	58.000	17.120	9.200	3.520	0.692	0.000	0.000	58.000 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.027	0.275	0.645	0.000	0.000	0.000	0.000	0.000 CMS
RUNOFF	0.154	0.007	0.000	0.294	0.176	43.062	20.360	10.506	2.634	0.457	0.000	0.000	77.650 MCM

MOMENTARY PEAK 60.00 CMS, AT 3.40 M (A.D), AT 18.00 HOURS, ON SEP 22, 1987
RUNOFF YIELD 2.35 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 57.36 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

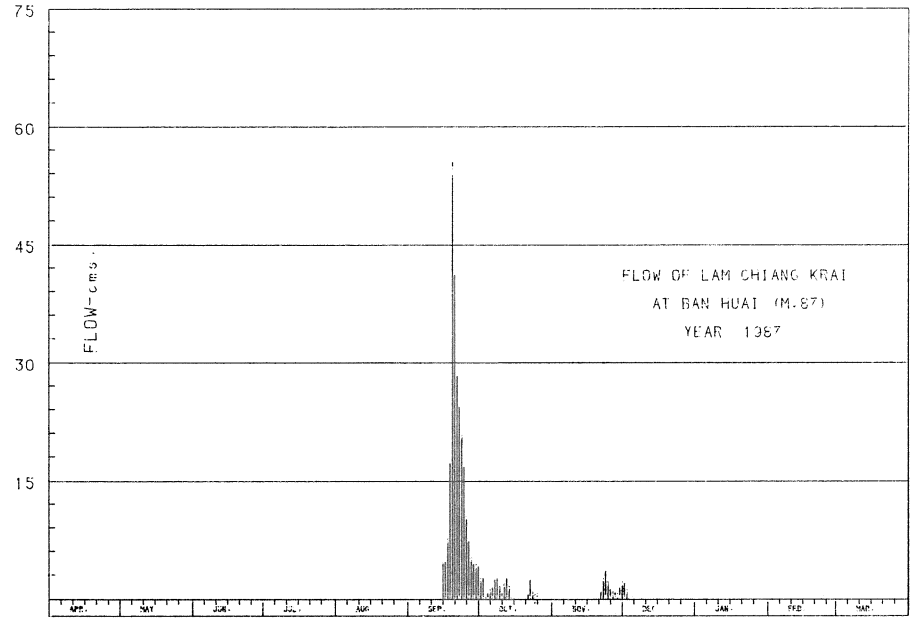
LAM CHIANG KRAI AT BAN HUAI, NAKHON RATCHASIMA (M.87)

LOCATION	LAT. 15°-14'-24" N., LONG. 100°-47'-23" E., ON LEFT BANK AT THE BRIDGE OF DAN KHUN THOT-NONG BUA KHOK ROAD, AMPHOE DAN KHUN THOT, NAKHON RATCHASIMA.
DRAINAGE AREA	891 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 20 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+3.729 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 - 1973, 1983 - 1987.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 - 1973, 1983 - 1987.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 8 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.01	2.12	2.11	1.64	1.76	2.30	3.68	3.48	3.65	3.43	3.25	3.09	
2	2.01	2.12	2.11	1.63	1.75	2.28	3.68	3.47	3.61	3.43	3.25	3.08	
3	2.00	2.11	2.13	1.63	1.75	2.27	3.52	3.47	3.54	3.43	3.24	3.07	
4	2.00	2.10	2.13	1.62	1.75	2.26	3.57	3.46	3.53	3.42	3.24	3.06	
5	1.99	2.10	2.14	1.62	2.40	2.33	3.61	3.45	3.53	3.42	3.23	3.05	
6	1.99	2.09	2.14	1.61	2.40	2.51	3.62	3.44	3.52	3.42	3.23	3.04	
7	1.98	2.11	2.28	1.61	2.39	2.59	3.67	3.42	3.52	3.41	3.22	3.03	
8	1.97	2.10	2.28	1.60	2.39	2.62	3.68	3.40	3.51	3.41	3.22	3.03	
9	1.97	2.10	2.32	1.60	2.39	2.62	3.63	3.39	3.51	3.40	3.21	3.02	
10	1.96	2.09	2.32	1.59	2.40	2.61	3.57	3.37	3.50	3.40	3.21	3.02	
11	1.95	2.09	2.31	1.59	2.40	2.60	3.65	3.35	3.50	3.39	3.20	3.01	
12	1.95	2.08	2.30	1.58	2.39	2.59	3.68	3.35	3.49	3.39	3.20	3.00	
13	1.94	2.08	2.29	1.58	2.39	2.59	3.63	3.34	3.49	3.38	3.19	2.99	
14	1.93	2.07	2.24	1.57	2.38	2.87	3.53	3.34	3.49	3.38	3.19	2.98	
15	1.93	2.07	2.17	1.57	2.40	3.76	3.49	3.40	3.48	3.37	3.18	2.97	
16	2.20	2.06	2.17	1.56	2.40	3.76	3.49	3.41	3.48	3.37	3.18	2.96	
17	2.20	2.05	2.16	1.56	2.39	3.86	3.51	3.42	3.48	3.36	3.17	2.95	
18	2.19	2.04	2.15	1.55	2.39	4.12	3.52	3.43	3.47	3.36	3.17	2.94	
19	2.18	2.03	2.14	1.55	2.38	4.75	3.48	3.44	3.48	3.35	3.16	2.93	
20	2.17	2.10	2.13	1.54	2.37	4.55	3.47	3.46	3.49	3.34	3.15	2.92	
21	2.16	2.10	2.12	1.54	2.36	4.35	3.60	3.59	3.50	3.33	3.14	2.91	
22	2.16	2.09	2.11	1.53	2.36	4.27	3.67	3.68	3.51	3.32	3.14	2.90	
23	2.15	2.09	2.10	1.59	2.37	4.20	3.59	3.72	3.51	3.31	3.13	2.89	
24	2.15	2.09	2.09	1.59	2.38	4.11	3.56	3.66	3.50	3.30	3.13	2.88	
25	2.14	2.08	2.07	1.58	2.38	3.95	3.54	3.61	3.50	3.29	3.12	2.87	
26	2.13	2.08	2.02	1.58	2.37	3.85	3.53	3.59	3.49	3.29	3.12	2.86	
27	2.12	2.07	1.91	1.57	2.37	3.78	3.53	3.58	3.48	3.28	3.11	2.85	
28	2.11	2.07	1.79	1.57	2.36	3.75	3.50	3.57	3.47	3.27	3.11	2.84	
29	2.10	2.06	1.67	1.56	2.35	3.75	3.50	3.62	3.46	3.27	3.10	2.83	
30	2.13	2.09	1.64	1.62	2.34	3.74	3.40	3.66	3.45	3.26		2.83	
31		2.09		1.76	2.33		3.48		3.44	3.26		2.82	
MEAN	2.06	2.08	2.12	1.59	2.30	3.32	3.57	3.49	3.50	3.36	3.18	2.96	
MAX	2.20	2.12	2.32	1.76	2.40	4.75	3.68	3.72	3.65	3.43	3.25	3.09	4.75
MIN	1.93	2.03	1.64	1.53	1.75	2.26	3.40	3.34	3.44	3.26	3.10	2.82	1.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.83 M (A.D), AT 17.00 HOURS, ON SEP 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.25 M (A.D)
LEFT BANK ELEVATION 5.05 M (A.D)
RIGHT BANK ELEVATION 5.28 M (A.D), DRAINAGE AREA 891 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	0.000	0.000	0.000	2.600	0.000	2.000	0.000	0.000	0.000	
2	0.000	0.000	0.000	0.000	0.000	0.000	2.600	0.000	1.200	0.000	0.000	0.000	
3	0.000	0.000	0.000	0.000	0.000	0.000	0.200	0.000	0.400	0.000	0.000	0.000	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.700	0.000	0.300	0.000	0.000	0.000	
5	0.000	0.000	0.000	0.000	0.000	0.000	1.200	0.000	0.300	0.000	0.000	0.000	
6	0.000	0.000	0.000	0.000	0.000	0.000	1.400	0.000	0.200	0.000	0.000	0.000	
7	0.000	0.000	0.000	0.000	0.000	0.000	2.400	0.000	0.200	0.000	0.000	0.000	
8	0.000	0.000	0.000	0.000	0.000	0.000	2.600	0.000	0.100	0.000	0.000	0.000	
9	0.000	0.000	0.000	0.000	0.000	0.000	1.600	0.000	0.100	0.000	0.000	0.000	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.700	0.000	0.000	0.000	0.000	0.000	
11	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000	0.000	0.000	0.000	
12	0.000	0.000	0.000	0.000	0.000	0.000	2.600	0.000	0.000	0.000	0.000	0.000	
13	0.000	0.000	0.000	0.000	0.000	0.000	1.600	0.000	0.000	0.000	0.000	0.000	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.300	0.000	0.000	0.000	0.000	0.000	
15	0.000	0.000	0.000	0.000	0.000	4.680	0.000	0.000	0.000	0.000	0.000	0.000	
16	0.000	0.000	0.000	0.000	0.000	4.680	0.000	0.000	0.000	0.000	0.000	0.000	
17	0.000	0.000	0.000	0.000	0.000	7.600	0.100	0.000	0.000	0.000	0.000	0.000	
18	0.000	0.000	0.000	0.000	0.000	17.200	0.200	0.000	0.000	0.000	0.000	0.000	
19	0.000	0.000	0.000	0.000	0.000	55.900	0.000	0.000	0.000	0.000	0.000	0.000	
20	0.000	0.000	0.000	0.000	0.000	41.150	0.000	0.000	0.000	0.000	0.000	0.000	
21	0.000	0.000	0.000	0.000	0.000	28.700	1.000	0.900	0.000	0.000	0.000	0.000	
22	0.000	0.000	0.000	0.000	0.000	24.370	2.400	2.600	0.100	0.000	0.000	0.000	
23	0.000	0.000	0.000	0.000	0.000	20.800	0.900	3.560	0.100	0.000	0.000	0.000	
24	0.000	0.000	0.000	0.000	0.000	16.750	0.600	2.200	0.000	0.000	0.000	0.000	
25	0.000	0.000	0.000	0.000	0.000	10.500	0.400	1.200	0.000	0.000	0.000	0.000	
26	0.000	0.000	0.000	0.000	0.000	7.300	0.300	0.900	0.000	0.000	0.000	0.000	
27	0.000	0.000	0.000	0.000	0.000	5.240	0.300	0.800	0.000	0.000	0.000	0.000	
28	0.000	0.000	0.000	0.000	0.000	4.400	0.000	0.700	0.000	0.000	0.000	0.000	
29	0.000	0.000	0.000	0.000	0.000	4.400	0.000	1.400	0.000	0.000	0.000	0.000	
30	0.000	0.000	0.000	0.000	0.000	4.120	0.000	2.200	0.000	0.000		0.000	
31		0.000		0.000	0.000		0.000		0.000	0.000		0.000	
TOTAL	0.000	0.000	0.000	0.000	0.000	257.790	28.700	16.460	5.000	0.000	0.000	0.000	307.950 CMSDAY
MEAN	0.000	0.000	0.000	0.000	0.000	8.593	0.926	0.549	0.161	0.000	0.000	0.000	0.841 CMS
MAX	0.000	0.000	0.000	0.000	0.000	55.900	2.600	3.560	2.000	0.000	0.000	0.000	55.900 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.000	22.273	2.480	1.422	0.432	0.000	0.000	0.000	26.607 MCM

MOMENTARY PEAK 62.52 CMS, AT 4.83 M (A.D), AT 17.00 HOURS, ON SEP 19, 1987
RUNOFF YIELD 0.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 70.17 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

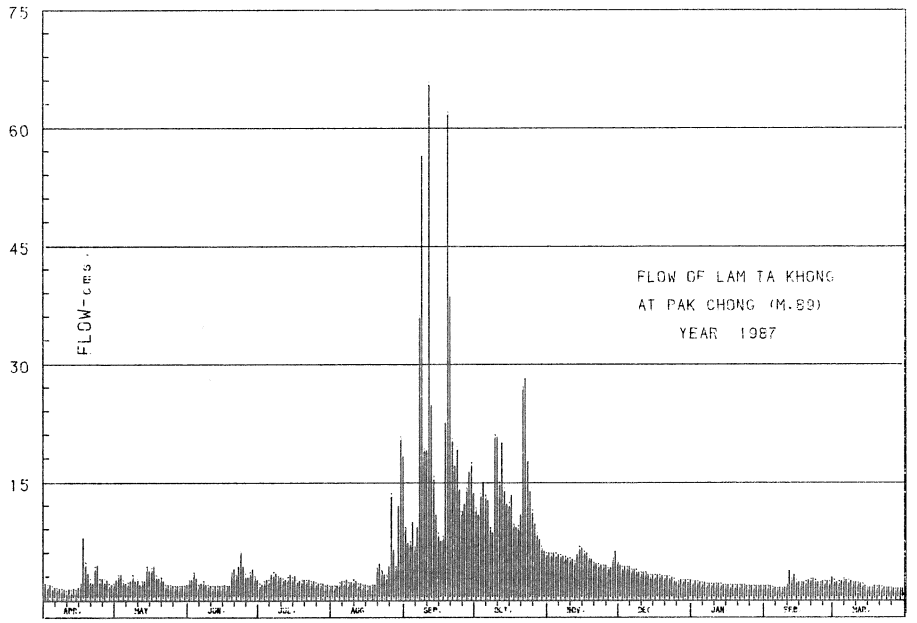
LAM TAKHONG AT PAK CHONG, NAKHON RATCHASIMA (M.89)

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	673 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.309 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.21	1.24	1.24	1.21	1.19	1.58	1.69	1.43	1.35	1.23	1.19	1.24	
2	1.20	1.28	1.24	1.20	1.19	1.49	1.65	1.43	1.34	1.23	1.19	1.22	
3	1.20	1.28	1.30	1.23	1.19	1.50	1.77	1.43	1.34	1.23	1.19	1.23	
4	1.19	1.24	1.25	1.24	1.22	1.61	1.83	1.43	1.34	1.22	1.18	1.23	
5	1.17	1.21	1.20	1.24	1.23	1.47	1.76	1.42	1.34	1.22	1.17	1.25	
6	1.17	1.22	1.21	1.28	1.23	1.58	1.73	1.42	1.32	1.22	1.17	1.24	
7	1.16	1.23	1.23	1.30	1.24	2.66	1.58	1.41	1.32	1.21	1.17	1.24	
8	1.16	1.28	1.20	1.29	1.22	3.41	1.55	1.41	1.32	1.21	1.17	1.23	
9	1.15	1.23	1.20	1.27	1.22	2.00	2.07	1.40	1.30	1.21	1.17	1.22	
10	1.14	1.25	1.19	1.26	1.24	1.99	2.06	1.40	1.30	1.21	1.21	1.22	
11	1.15	1.20	1.19	1.25	1.23	3.74	1.83	1.39	1.30	1.21	1.31	1.22	
12	1.15	1.23	1.19	1.24	1.21	2.22	2.03	1.38	1.30	1.21	1.25	1.21	
13	1.16	1.23	1.19	1.26	1.21	1.86	1.80	1.42	1.28	1.21	1.28	1.21	
14	1.15	1.34	1.19	1.28	1.20	1.65	1.71	1.47	1.28	1.20	1.24	1.19	
15	1.17	1.31	1.19	1.26	1.20	1.55	1.72	1.46	1.28	1.20	1.22	1.17	
16	1.21	1.33	1.20	1.27	1.19	1.50	1.76	1.44	1.28	1.20	1.22	1.17	
17	1.52	1.34	1.19	1.24	1.19	1.53	1.60	1.43	1.28	1.20	1.22	1.17	
18	1.37	1.28	1.19	1.23	1.20	2.13	1.58	1.41	1.28	1.20	1.23	1.19	
19	1.29	1.25	1.30	1.24	1.20	3.61	1.59	1.39	1.27	1.20	1.24	1.18	
20	1.25	1.26	1.32	1.24	1.33	2.75	1.65	1.37	1.27	1.20	1.25	1.19	
21	1.21	1.23	1.28	1.24	1.36	2.05	2.31	1.36	1.27	1.20	1.25	1.18	
22	1.34	1.20	1.34	1.24	1.31	1.91	2.35	1.36	1.27	1.20	1.24	1.17	
23	1.35	1.20	1.44	1.23	1.28	2.01	1.95	1.35	1.26	1.20	1.22	1.17	
24	1.25	1.20	1.34	1.23	1.28	1.79	1.78	1.35	1.25	1.19	1.22	1.17	
25	1.25	1.19	1.29	1.22	1.34	1.67	1.68	1.35	1.22	1.19	1.23	1.17	
26	1.25	1.19	1.26	1.21	1.77	1.71	1.60	1.33	1.23	1.19	1.23	1.16	
27	1.24	1.19	1.30	1.21	1.45	1.80	1.55	1.33	1.24	1.19	1.23	1.16	
28	1.21	1.19	1.32	1.21	1.34	1.88	1.51	1.40	1.24	1.19	1.23	1.16	
29	1.20	1.19	1.27	1.19	1.70	1.93	1.47	1.44	1.24	1.19	1.26	1.16	
30	1.21	1.19	1.24	1.20	2.06	1.77	1.44	1.38	1.24	1.19		1.16	
31		1.20		1.19	1.96		1.43		1.24	1.19		1.16	
MEAN	1.22	1.24	1.25	1.24	1.33	2.01	1.74	1.40	1.28	1.20	1.22	1.19	
MAX	1.52	1.34	1.44	1.30	2.06	3.74	2.35	1.47	1.35	1.23	1.31	1.25	3.74
MIN	1.14	1.19	1.19	1.19	1.19	1.47	1.43	1.33	1.22	1.19	1.17	1.16	1.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.40 M (A.D), AT 12.00 HOURS, ON SEP 11, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.49 M (A.D)
LEFT BANK ELEVATION 8.47 M (A.D)
RIGHT BANK ELEVATION 8.34 M (A.D), DRAINAGE AREA 673 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.160	2.640	2.640	2.160	1.880	9.260	11.770	6.030	4.500	2.480	1.880	2.640	
2	2.000	3.280	2.640	2.000	1.880	7.290	10.850	6.030	4.320	2.480	1.880	2.320	
3	2.000	3.280	3.600	2.480	1.880	7.500	13.610	6.030	4.320	2.480	1.880	2.480	
4	1.880	2.640	2.800	2.640	2.320	9.930	15.050	6.030	4.320	2.320	1.760	2.480	
5	1.640	2.160	2.000	2.640	2.480	6.870	13.380	5.820	4.320	2.320	1.640	2.800	
6	1.640	2.320	2.160	3.280	2.480	9.260	12.690	5.820	3.960	2.320	1.640	2.640	
7	1.520	2.480	2.480	3.600	2.640	36.260	9.260	5.610	3.960	2.160	1.640	2.640	
8	1.520	3.280	2.000	3.440	2.320	56.480	8.600	5.610	3.960	2.160	1.640	2.480	
9	1.400	2.480	2.000	3.120	2.320	19.300	21.050	5.400	3.600	2.160	1.640	2.320	
10	1.280	2.800	1.880	2.960	2.640	19.050	20.800	5.400	3.600	2.160	2.160	2.320	
11	1.400	2.000	1.880	2.800	2.480	65.860	15.050	5.220	3.600	2.160	3.780	2.320	
12	1.400	2.480	1.880	2.640	2.160	24.820	20.050	5.040	3.600	2.160	2.800	2.160	
13	1.520	2.480	1.880	2.960	2.160	15.800	14.300	5.820	3.280	2.160	3.280	2.160	
14	1.400	4.320	1.880	3.280	2.000	10.850	12.230	6.870	3.280	2.000	2.640	1.880	
15	1.640	3.780	1.880	2.960	2.000	8.600	12.460	6.660	3.280	2.000	2.320	1.640	
16	2.160	4.140	2.000	3.120	1.880	7.500	13.380	6.240	3.280	2.000	2.320	1.640	
17	7.940	4.320	1.880	2.640	1.880	8.160	9.700	6.030	3.280	2.000	2.320	1.640	
18	4.860	3.280	1.880	2.480	2.000	22.550	9.260	5.610	3.280	2.000	2.480	1.880	
19	3.440	2.800	3.600	2.640	2.000	62.090	9.480	5.220	3.120	2.000	2.640	1.760	
20	2.800	2.960	3.960	2.640	4.140	38.600	10.850	4.860	3.120	2.000	2.800	1.880	
21	2.160	2.480	3.280	2.640	4.680	20.550	27.160	4.680	3.120	2.000	2.800	1.760	
22	4.320	2.000	4.320	2.640	3.780	17.050	28.200	4.680	3.120	2.000	2.640	1.640	
23	4.500	2.000	6.240	2.480	3.280	19.550	18.050	4.500	2.960	2.000	2.320	1.640	
24	2.800	2.000	4.320	2.480	3.280	14.070	13.840	4.500	2.800	1.880	2.320	1.640	
25	2.800	1.880	3.440	2.320	4.320	11.310	11.540	4.500	2.320	1.880	2.480	1.640	
26	2.800	1.880	2.960	2.160	13.610	12.230	9.700	4.140	2.480	1.880	2.480	1.520	
27	2.640	1.880	3.600	2.160	6.450	14.300	8.600	4.140	2.640	1.880	2.480	1.520	
28	2.160	1.880	3.960	2.160	4.320	16.300	7.720	5.400	2.640	1.880	2.480	1.520	
29	2.000	1.880	3.120	1.880	12.000	17.550	6.870	6.240	2.640	1.880	2.960	1.520	
30	2.160	1.880	2.640	2.000	20.800	13.610	6.240	5.040	2.640	1.880		1.520	
31		2.000		1.880	18.300		6.030		2.640	1.880		1.520	
TOTAL	73.940	81.680	84.800	81.280	140.360	602.550	407.770	163.170	103.980	64.560	68.100	61.520	1933.710 CMSDAY
MEAN	2.465	2.635	2.827	2.622	4.528	20.085	13.154	5.439	3.354	2.083	2.348	1.985	5.283 CMS
MAX	7.940	4.320	6.240	3.600	20.800	65.860	28.200	6.870	4.500	2.480	3.780	2.800	65.860 CMS
MIN	1.280	1.880	1.880	1.880	1.880	6.870	6.030	4.140	2.320	1.880	1.640	1.520	1.280 CMS
RUNOFF	6.388	7.057	7.327	7.023	12.127	52.060	35.231	14.098	8.984	5.578	5.884	5.315	167.073 MCM

MOMENTARY PEAK 85.07 CMS, AT 4.40 M (A.D), AT 12.00 HOURS, ON SEP 11, 1987
RUNOFF YIELD 7.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 126.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

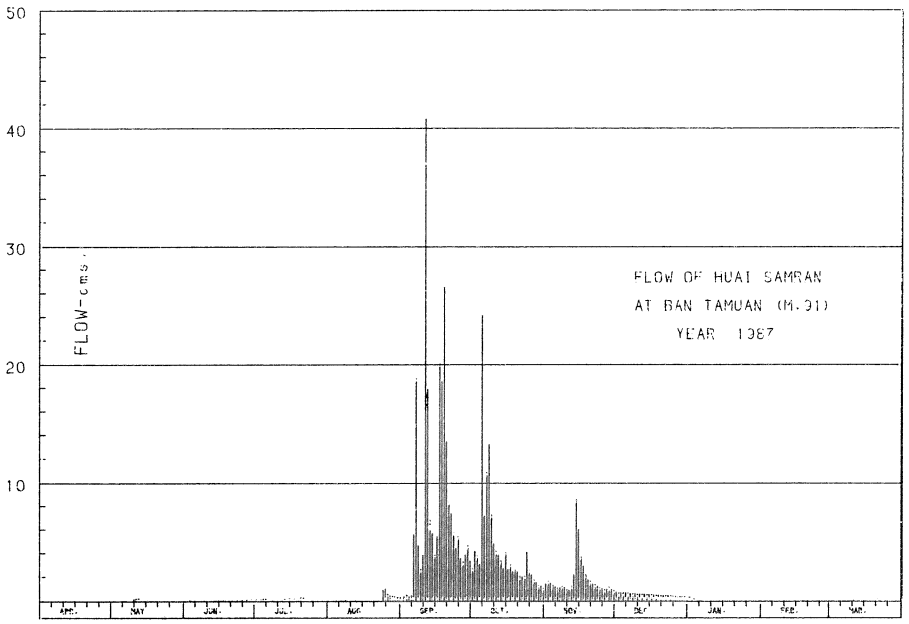
HUAI SAMRAN AT BAN TAMUAN, SI SA KET (M.91)

LOCATION	LAT. 14°-29'-48" N., LONG. 104°-03'-29" E., ON RIGHT BANK ABOUT 15 KILOMETERS FROM THE HIGHWAY AT BAN TAMUAN, TAMBON LALOM, AMPHOE KHUKHAN, SI SA KET.
DRAINAGE AREA	128 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 1.50 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.051 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 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 - 1978, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 - 1978, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 67 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.89	1.06	1.14	1.08	1.22	1.65	1.44	1.32	1.23	0.90	1.07	
2	0.80	0.90	1.08	1.15	1.08	1.24	1.85	1.48	1.31	1.23	0.90	1.07	
3	0.79	0.91	1.12	1.15	1.08	1.27	1.80	1.45	1.31	1.20	0.90	1.09	
4	0.79	0.91	1.05	1.20	1.07	1.24	1.70	1.42	1.31	1.19	0.90	1.10	
5	0.79	0.95	0.98	1.20	1.07	1.26	3.61	1.40	1.31	1.19	0.90	1.11	
6	0.79	0.95	0.92	1.19	1.11	2.02	2.20	1.38	1.31	1.19	0.90	1.11	
7	0.80	0.95	0.89	1.17	1.13	3.21	2.56	1.38	1.30	1.17	0.90	1.12	
8	0.79	0.95	1.06	1.18	1.11	1.91	2.77	1.41	1.30	1.14	0.92	1.12	
9	0.79	0.95	1.00	1.21	1.10	1.64	2.21	1.39	1.30	1.11	0.92	1.12	
10	0.79	1.23	1.02	1.20	1.08	1.81	1.93	1.36	1.29	1.09	0.93	1.13	
11	0.79	1.21	1.03	1.20	1.05	4.70	1.85	1.35	1.29	1.08	0.94	1.13	
12	0.80	1.21	1.04	1.21	1.03	3.14	1.81	1.41	1.29	1.06	0.94	1.13	
13	0.82	1.20	1.05	1.19	1.00	2.16	1.74	1.57	1.29	1.05	0.96	1.12	
14	0.85	1.19	1.08	1.21	0.98	2.03	1.65	2.34	1.28	1.04	0.98	1.11	
15	0.87	1.19	1.08	1.21	0.96	1.81	1.84	2.07	1.28	1.04	1.00	1.12	
16	0.88	1.16	1.08	1.21	0.97	2.00	1.64	1.79	1.28	1.03	1.00	1.13	
17	0.91	1.07	1.07	1.20	0.98	3.31	1.70	1.68	1.27	1.01	1.00	1.16	
18	0.93	0.99	1.06	1.19	1.00	3.19	1.61	1.57	1.27	1.01	1.06	1.17	
19	0.93	0.93	1.07	1.20	1.03	3.77	1.67	1.50	1.27	0.98	1.00	1.18	
20	0.94	0.88	1.06	1.23	1.04	2.79	1.61	1.48	1.26	0.96	1.00	1.19	
21	0.94	0.88	1.07	1.22	1.05	2.32	1.55	1.44	1.26	0.95	1.01	1.18	
22	0.94	0.89	1.09	1.21	1.06	2.22	1.54	1.43	1.26	0.94	1.01	1.19	
23	0.95	0.90	1.10	1.20	1.13	2.04	1.55	1.41	1.26	0.93	1.01	1.17	
24	0.95	0.90	1.11	1.19	1.39	1.88	1.84	1.39	1.26	0.92	1.01	1.13	
25	0.95	0.91	1.11	1.19	1.37	2.00	1.63	1.37	1.25	0.91	1.03	1.10	
26	0.97	0.91	1.13	1.16	1.29	1.77	1.57	1.36	1.25	0.90	1.05	1.09	
27	0.95	0.99	1.13	1.13	1.26	1.73	1.50	1.36	1.24	0.91	1.06	1.09	
28	0.90	0.98	1.13	1.10	1.25	1.81	1.46	1.40	1.24	0.90	1.08	1.09	
29	0.90	1.00	1.15	1.07	1.24	1.91	1.42	1.36	1.24	0.89	1.10	1.09	
30	0.89	1.04	1.14	1.07	1.23	1.74	1.41	1.35	1.24	0.88		1.09	
31		1.06		1.06	1.22		1.38		1.23	0.87		1.09	
MEAN	0.87	1.00	1.07	1.18	1.11	2.17	1.81	1.49	1.28	1.03	0.98	1.12	
MAX	0.97	1.23	1.15	1.23	1.39	4.70	3.61	2.34	1.32	1.23	1.10	1.19	4.70
MIN	0.79	0.88	0.89	1.06	0.96	1.22	1.38	1.35	1.23	0.87	0.90	1.07	0.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.17 M (A.D), AT 16.00 HOURS, ON SEP 11, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.56 M (A.D)
LEFT BANK ELEVATION 7.28 M (A.D)
RIGHT BANK ELEVATION 5.26 M (A.D), DRAINAGE AREA 128 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.009	0.038	0.102	0.044	0.270	2.750	1.440	0.744	0.315	0.010	0.041	
2	0.000	0.010	0.044	0.115	0.044	0.360	4.200	1.680	0.687	0.315	0.010	0.041	
3	0.000	0.011	0.076	0.115	0.044	0.495	3.800	1.500	0.687	0.180	0.010	0.047	
4	0.000	0.011	0.035	0.180	0.041	0.360	3.100	1.320	0.687	0.167	0.010	0.050	
5	0.000	0.015	0.018	0.180	0.041	0.450	24.450	1.200	0.687	0.167	0.010	0.063	
6	0.000	0.015	0.012	0.167	0.063	5.620	7.200	1.086	0.687	0.167	0.010	0.063	
7	0.000	0.015	0.009	0.141	0.089	18.830	10.860	1.086	0.630	0.141	0.010	0.076	
8	0.000	0.015	0.038	0.154	0.063	4.685	13.240	1.260	0.630	0.102	0.012	0.076	
9	0.000	0.015	0.020	0.225	0.050	2.680	7.300	1.143	0.630	0.063	0.012	0.076	
10	0.000	0.315	0.026	0.180	0.044	3.880	4.855	0.972	0.585	0.047	0.013	0.089	
11	0.000	0.225	0.029	0.180	0.035	41.100	4.200	0.915	0.585	0.044	0.014	0.089	
12	0.000	0.225	0.032	0.225	0.029	17.920	3.880	1.260	0.585	0.038	0.014	0.089	
13	0.002	0.180	0.035	0.167	0.020	6.840	3.380	2.220	0.585	0.035	0.016	0.076	
14	0.005	0.167	0.044	0.225	0.018	5.705	2.750	8.600	0.540	0.032	0.018	0.063	
15	0.007	0.167	0.044	0.225	0.016	3.880	4.120	6.045	0.540	0.032	0.020	0.076	
16	0.008	0.128	0.044	0.225	0.017	5.450	2.680	3.730	0.540	0.029	0.020	0.089	
17	0.011	0.041	0.041	0.180	0.018	20.140	3.100	2.960	0.495	0.023	0.020	0.128	
18	0.013	0.019	0.038	0.167	0.020	18.570	2.470	2.220	0.495	0.023	0.038	0.141	
19	0.013	0.013	0.041	0.180	0.029	26.850	2.890	1.800	0.495	0.018	0.020	0.154	
20	0.014	0.008	0.038	0.315	0.032	13.480	2.470	1.680	0.450	0.016	0.020	0.167	
21	0.014	0.008	0.041	0.270	0.035	8.400	2.100	1.440	0.450	0.015	0.023	0.154	
22	0.014	0.009	0.047	0.225	0.038	7.400	2.040	1.380	0.450	0.014	0.023	0.167	
23	0.015	0.010	0.050	0.180	0.089	5.790	2.100	1.260	0.450	0.013	0.023	0.141	
24	0.015	0.010	0.063	0.167	1.143	4.440	4.120	1.143	0.450	0.012	0.023	0.089	
25	0.015	0.011	0.063	0.167	1.029	5.450	2.610	1.029	0.405	0.011	0.029	0.050	
26	0.017	0.011	0.089	0.128	0.585	3.590	2.220	0.972	0.405	0.010	0.035	0.047	
27	0.015	0.019	0.089	0.089	0.450	3.310	1.800	0.972	0.360	0.011	0.038	0.047	
28	0.010	0.018	0.089	0.050	0.405	3.880	1.560	1.200	0.360	0.010	0.044	0.047	
29	0.010	0.020	0.115	0.041	0.360	4.685	1.320	0.972	0.360	0.009	0.050	0.047	
30	0.009	0.032	0.102	0.041	0.315	3.380	1.260	0.915	0.360	0.008		0.047	
31		0.038		0.038	0.270		1.086		0.315	0.007		0.047	
TOTAL	0.207	1.790	1.450	5.044	5.476	247.890	135.911	55.400	16.329	2.074	0.595	2.577	474.743 CMSDAY
MEAN	0.007	0.058	0.048	0.163	0.177	8.263	4.384	1.847	0.527	0.067	0.021	0.083	1.297 CMS
MAX	0.017	0.315	0.115	0.315	1.143	41.100	24.450	8.600	0.744	0.315	0.050	0.167	41.100 CMS
MIN	0.000	0.008	0.009	0.038	0.016	0.270	1.086	0.915	0.315	0.007	0.010	0.041	0.000 CMS
RUNOFF	0.018	0.155	0.125	0.436	0.473	21.418	11.743	4.787	1.411	0.179	0.051	0.223	41.018 MCM

MOMENTARY PEAK 50.78 CMS, AT 5.17 M (A.D), AT 16.00 HOURS, ON SEP 11, 1987

RUNOFF YIELD 10.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 396.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

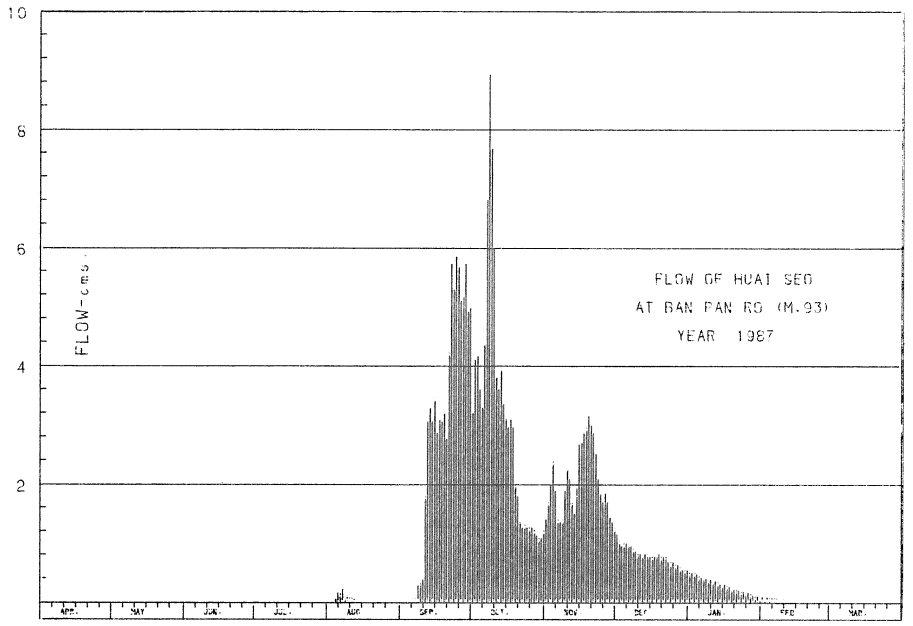
HUAI SEO AT BAN PAN RO, BURI RAM (M.33)

LOCATION	LAT. 14°-28'-24" N., LONG. 103°-06'-20" E., ON RIGHT BANK ABOUT 100 METERS FROM PRAKHON CHAI-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	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE SITE.
ELEVATION	+4.571 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.53	0.49	0.58	0.89	0.93	1.79	1.60	1.54	1.40	1.18	1.01	
2	0.63	0.52	0.48	0.58	0.93	0.99	1.86	1.63	1.52	1.40	1.17	1.02	
3	0.62	0.52	0.48	0.57	1.04	1.01	1.87	1.66	1.50	1.40	1.17	1.01	
4	0.60	0.51	0.47	0.58	1.19	1.03	1.82	1.70	1.51	1.39	1.16	1.00	
5	0.59	0.51	0.47	0.58	1.23	1.04	1.80	1.65	1.51	1.37	1.15	0.99	
6	0.59	0.50	0.47	0.58	1.22	1.12	1.88	1.60	1.51	1.36	1.15	0.98	
7	0.58	0.49	0.47	0.61	1.26	1.13	2.07	1.59	1.50	1.36	1.14	0.98	
8	0.57	0.49	0.46	0.61	1.19	1.29	2.21	1.60	1.49	1.35	1.13	0.97	
9	0.57	0.48	0.45	0.62	1.17	1.31	2.13	1.65	1.48	1.34	1.12	0.96	
10	0.56	0.50	0.44	0.64	1.15	1.34	2.01	1.69	1.47	1.34	1.12	0.95	
11	0.56	0.64	0.43	0.65	1.15	1.64	1.84	1.67	1.47	1.33	1.11	0.94	
12	0.55	0.53	0.43	0.65	1.10	1.77	1.82	1.63	1.47	1.33	1.10	0.94	
13	0.55	0.57	0.42	0.64	1.09	1.80	1.85	1.61	1.47	1.32	1.10	0.93	
14	0.54	0.57	0.42	0.63	1.05	1.77	1.80	1.66	1.47	1.30	1.09	0.92	
15	0.55	0.56	0.41	0.65	1.04	1.81	1.78	1.73	1.46	1.30	1.09	0.91	
16	0.55	0.57	0.43	0.62	1.08	1.75	1.76	1.74	1.46	1.30	1.07	0.90	
17	0.55	0.57	0.43	0.62	1.08	1.78	1.78	1.75	1.46	1.29	1.05	0.89	
18	0.56	0.56	0.51	0.62	1.09	1.77	1.76	1.76	1.47	1.28	1.05	0.87	
19	0.55	0.55	0.64	0.62	1.08	1.79	1.66	1.78	1.47	1.27	1.05	0.86	
20	0.59	0.54	0.64	0.61	1.07	1.74	1.64	1.77	1.46	1.26	1.04	0.85	
21	0.59	0.54	0.63	0.61	1.06	1.87	1.60	1.75	1.46	1.26	1.02	0.84	
22	0.59	0.54	0.63	0.61	1.05	1.99	1.57	1.72	1.46	1.25	1.01	0.83	
23	0.58	0.53	0.62	0.68	1.06	1.96	1.58	1.67	1.44	1.24	1.00	0.82	
24	0.57	0.52	0.61	0.72	1.05	2.00	1.57	1.65	1.44	1.24	1.00	0.82	
25	0.57	0.51	0.60	0.71	1.04	1.99	1.57	1.63	1.44	1.23	0.99	0.81	
26	0.56	0.53	0.60	0.70	1.02	1.94	1.57	1.65	1.43	1.23	1.02	0.79	
27	0.55	0.52	0.60	0.69	1.01	1.95	1.56	1.63	1.43	1.22	1.01	0.78	
28	0.55	0.52	0.59	0.69	1.00	1.99	1.54	1.61	1.42	1.21	1.01	0.78	
29	0.54	0.51	0.59	0.80	0.99	1.93	1.53	1.59	1.41	1.20	1.01	0.77	
30	0.53	0.51	0.59	0.82	0.98	1.93	1.53	1.57	1.41	1.20		0.77	
31		0.50		0.88	0.95		1.56		1.41	1.19		0.76	
MEAN	0.57	0.53	0.52	0.65	1.07	1.61	1.75	1.66	1.47	1.30	1.08	0.89	
MAX	0.65	0.64	0.64	0.88	1.26	2.00	2.21	1.78	1.54	1.40	1.18	1.02	2.21
MIN	0.53	0.48	0.41	0.57	0.89	0.93	1.53	1.57	1.41	1.19	0.99	0.76	0.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.22 M (A.D), AT 6.00 HOURS, ON OCT 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.66 M (A.D)
LEFT BANK ELEVATION 3.91 M (A.D)
RIGHT BANK ELEVATION 3.89 M (A.D), DRAINAGE AREA 329 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	0.000	0.000	0.000	3.253	1.400	1.130	0.500	0.090	0.005	
2	0.000	0.000	0.000	0.000	0.000	0.000	4.100	1.692	1.040	0.500	0.085	0.010	
3	0.000	0.000	0.000	0.000	0.020	0.005	4.225	1.985	0.950	0.500	0.085	0.005	
4	0.000	0.000	0.000	0.000	0.095	0.015	3.600	2.375	0.995	0.480	0.080	0.000	
5	0.000	0.000	0.000	0.000	0.160	0.020	3.350	1.887	0.995	0.440	0.075	0.000	
6	0.000	0.000	0.000	0.000	0.140	0.060	4.350	1.400	0.995	0.420	0.075	0.000	
7	0.000	0.000	0.000	0.000	0.220	0.065	6.865	1.355	0.950	0.420	0.070	0.000	
8	0.000	0.000	0.000	0.000	0.095	0.280	8.930	1.400	0.905	0.400	0.065	0.000	
9	0.000	0.000	0.000	0.000	0.085	0.320	7.735	1.887	0.860	0.380	0.060	0.000	
10	0.000	0.000	0.000	0.000	0.075	0.380	5.995	2.278	0.815	0.380	0.060	0.000	
11	0.000	0.000	0.000	0.000	0.075	1.790	3.850	2.082	0.815	0.360	0.055	0.000	
12	0.000	0.000	0.000	0.000	0.050	3.058	3.600	1.692	0.815	0.360	0.050	0.000	
13	0.000	0.000	0.000	0.000	0.045	3.350	3.975	1.497	0.815	0.340	0.050	0.000	
14	0.000	0.000	0.000	0.000	0.025	3.058	3.350	1.985	0.815	0.300	0.045	0.000	
15	0.000	0.000	0.000	0.000	0.020	3.475	3.155	2.668	0.770	0.300	0.045	0.000	
16	0.000	0.000	0.000	0.000	0.040	2.863	2.960	2.765	0.770	0.300	0.035	0.000	
17	0.000	0.000	0.000	0.000	0.040	3.155	3.155	2.863	0.770	0.280	0.025	0.000	
18	0.000	0.000	0.000	0.000	0.045	3.058	2.960	2.960	0.815	0.260	0.025	0.000	
19	0.000	0.000	0.000	0.000	0.040	3.253	1.985	3.155	0.815	0.240	0.025	0.000	
20	0.000	0.000	0.000	0.000	0.035	2.765	1.790	3.058	0.770	0.220	0.020	0.000	
21	0.000	0.000	0.000	0.000	0.030	4.225	1.400	2.863	0.770	0.220	0.010	0.000	
22	0.000	0.000	0.000	0.000	0.025	5.725	1.265	2.570	0.770	0.200	0.005	0.000	
23	0.000	0.000	0.000	0.000	0.030	5.350	1.310	2.082	0.680	0.180	0.000	0.000	
24	0.000	0.000	0.000	0.000	0.025	5.850	1.265	1.887	0.680	0.180	0.000	0.000	
25	0.000	0.000	0.000	0.000	0.020	5.725	1.265	1.692	0.680	0.160	0.000	0.000	
26	0.000	0.000	0.000	0.000	0.010	5.100	1.265	1.887	0.635	0.160	0.010	0.000	
27	0.000	0.000	0.000	0.000	0.005	5.225	1.220	1.692	0.635	0.140	0.005	0.000	
28	0.000	0.000	0.000	0.000	0.000	5.725	1.130	1.497	0.590	0.120	0.005	0.000	
29	0.000	0.000	0.000	0.000	0.000	4.975	1.085	1.355	0.545	0.100	0.005	0.000	
30	0.000	0.000	0.000	0.000	0.000	4.975	1.085	1.265	0.545	0.100		0.000	
31		0.000		0.000	0.000		1.220		0.545	0.095		0.000	
TOTAL	0.000	0.000	0.000	0.000	1.450	83.845	96.693	61.174	24.680	9.035	1.160	0.020	278.057 CMSDAY
MEAN	0.000	0.000	0.000	0.000	0.047	2.795	3.119	2.039	0.796	0.291	0.040	0.001	0.760 CMS
MAX	0.000	0.000	0.000	0.000	0.220	5.850	8.930	3.155	1.130	0.500	0.090	0.010	8.930 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.000	1.085	1.265	0.545	0.095	0.000	0.000	0.000 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.125	7.244	8.354	5.285	2.132	0.781	0.100	0.002	24.024 MCM

MOMENTARY PEAK 9.11 CMS, AT 2.22 M (A.D), AT 6.00 HOURS, ON OCT 8, 1987

RUNOFF YIELD 2.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 27.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

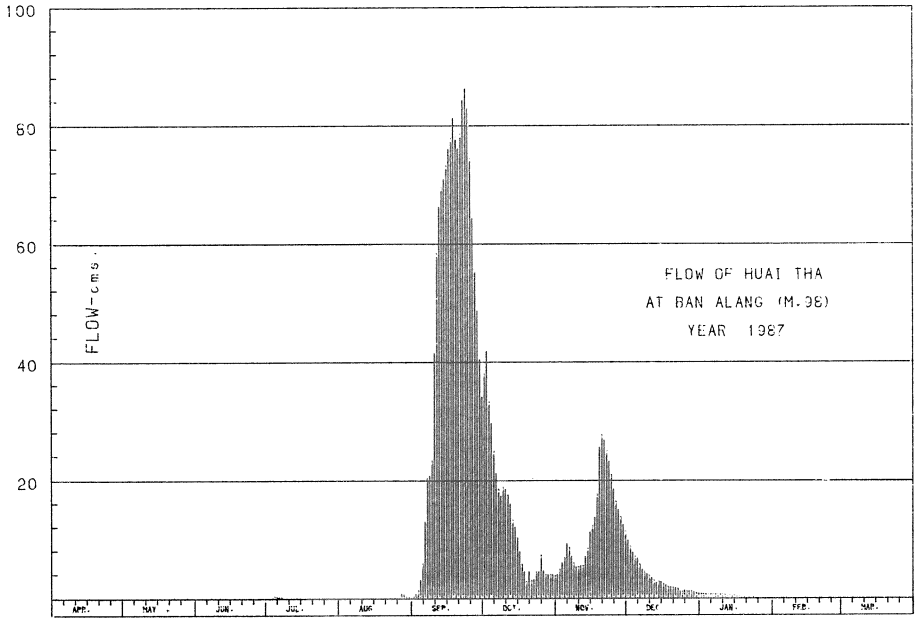
HUAI THA AT BAN ALANG, SI SA KET (M.98)

LOCATION	LAT. 14°-52'-39" N., LONG. 104°-26'-16" E., ON LEFT BANK AT THE BRIDGE OF SI SA KET-KANTHARALAK HIGHWAY NEAR GUIDEPOST 27+734, TAMBON TAM YAE, AMPHOE MUANG, SI SA KET.
DRAINAGE AREA	1,092 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.061 M.(A.D.)
GAGE READING FREQUENCY	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	1979 - 1981, 1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 - 1981, 1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 34 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.21	0.20	0.22	0.21	0.30	3.42	0.99	1.51	0.46	0.20	0.17	
2	0.21	0.20	0.20	0.21	0.20	0.44	3.65	1.08	1.43	0.44	0.20	0.17	
3	0.20	0.20	0.24	0.22	0.20	0.61	3.13	1.18	1.34	0.43	0.20	0.17	
4	0.20	0.20	0.22	0.32	0.20	0.88	2.89	1.26	1.28	0.42	0.20	0.17	
5	0.20	0.20	0.22	0.25	0.19	1.17	2.58	1.46	1.25	0.42	0.20	0.17	
6	0.20	0.20	0.21	0.29	0.19	1.76	2.33	1.41	1.16	0.42	0.20	0.16	
7	0.20	0.24	0.21	0.23	0.19	2.27	2.15	1.28	1.08	0.42	0.27	0.16	
8	0.20	0.22	0.21	0.22	0.19	2.30	2.07	1.18	1.04	0.41	0.28	0.17	
9	0.20	0.20	0.21	0.22	0.19	2.47	2.17	1.12	1.00	0.40	0.20	0.16	
10	0.20	0.20	0.23	0.22	0.18	3.63	2.15	1.12	0.97	0.42	0.20	0.16	
11	0.20	0.20	0.25	0.22	0.17	4.62	2.08	1.14	0.92	0.40	0.18	0.16	
12	0.20	0.20	0.23	0.21	0.18	5.07	1.98	1.14	0.87	0.37	0.13	0.16	
13	0.19	0.20	0.26	0.21	0.20	5.26	1.78	1.28	0.81	0.38	0.20	0.16	
14	0.19	0.20	0.24	0.21	0.20	5.34	1.69	1.40	0.84	0.38	0.19	0.16	
15	0.19	0.20	0.21	0.21	0.20	5.47	1.54	1.62	0.83	0.36	0.19	0.16	
16	0.19	0.20	0.21	0.21	0.25	5.63	1.35	1.71	0.79	0.34	0.19	0.16	
17	0.21	0.20	0.21	0.21	0.23	5.73	1.16	1.81	0.76	0.32	0.19	0.16	
18	0.22	0.20	0.21	0.21	0.20	5.92	1.04	2.09	0.72	0.30	0.19	0.16	
19	0.20	0.20	0.23	0.21	0.19	5.75	0.84	2.62	0.71	0.28	0.19	0.16	
20	0.20	0.20	0.21	0.24	0.19	5.63	1.04	2.76	0.70	0.27	0.18	0.16	
21	0.19	0.20	0.26	0.23	0.18	5.77	0.87	2.70	0.68	0.26	0.18	0.16	
22	0.19	0.20	0.23	0.21	0.22	6.09	0.88	2.58	0.66	0.25	0.18	0.16	
23	0.19	0.20	0.21	0.21	0.27	6.23	1.04	2.46	0.55	0.25	0.17	0.16	
24	0.19	0.20	0.21	0.21	0.22	6.01	1.04	2.31	0.56	0.25	0.17	0.15	
25	0.19	0.19	0.21	0.21	0.21	5.54	1.30	2.15	0.59	0.24	0.17	0.15	
26	0.19	0.19	0.21	0.20	0.21	4.96	1.06	2.01	0.57	0.23	0.17	0.15	
27	0.19	0.21	0.21	0.20	0.45	4.46	0.99	1.91	0.57	0.24	0.17	0.15	
28	0.19	0.24	0.21	0.20	0.41	4.05	0.99	1.82	0.58	0.21	0.17	0.15	
29	0.20	0.22	0.21	0.20	0.31	3.60	0.99	1.72	0.52	0.21	0.17	0.15	
30	0.22	0.21	0.22	0.21	0.28	3.18	0.99	1.63	0.49	0.21		0.15	
31		0.20		0.21	0.27		0.97		0.46	0.20		0.12	
MEAN	0.20	0.20	0.22	0.22	0.23	4.00	1.68	1.70	0.85	0.33	0.19	0.16	
MAX	0.22	0.24	0.26	0.32	0.45	6.23	3.65	2.76	1.51	0.46	0.28	0.17	6.23
MIN	0.19	0.19	0.20	0.20	0.17	0.30	0.84	0.99	0.46	0.20	0.13	0.12	0.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.23 M (A.D), AT 12.00 HOURS, ON SEP 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.16 M (A.D)
LEFT BANK ELEVATION 7.38 M (A.D)
RIGHT BANK ELEVATION 7.25 M (A.D), DRAINAGE AREA 1092 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	0.12	0.10	0.14	0.12	0.30	37.98	4.02	9.82	0.78	0.10	0.07	
2	0.12	0.10	0.10	0.12	0.10	0.72	41.85	4.90	8.82	0.72	0.10	0.07	
3	0.10	0.10	0.18	0.14	0.10	1.35	33.28	5.98	7.76	0.69	0.10	0.07	
4	0.10	0.10	0.14	0.36	0.10	3.14	29.60	6.86	7.08	0.66	0.10	0.07	
5	0.10	0.10	0.14	0.20	0.09	5.87	24.95	9.20	6.75	0.66	0.10	0.07	
6	0.10	0.10	0.12	0.28	0.09	12.98	21.20	8.57	5.76	0.66	0.10	0.06	
7	0.10	0.18	0.12	0.16	0.09	20.30	18.50	7.08	4.90	0.66	0.24	0.06	
8	0.10	0.14	0.12	0.14	0.09	20.75	17.30	5.98	4.50	0.63	0.26	0.07	
9	0.10	0.10	0.12	0.14	0.09	23.30	18.80	5.32	4.10	0.60	0.10	0.06	
10	0.10	0.10	0.16	0.14	0.08	41.51	18.50	5.32	3.86	0.66	0.10	0.06	
11	0.10	0.10	0.20	0.14	0.07	58.35	17.45	5.54	3.46	0.60	0.08	0.06	
12	0.10	0.10	0.16	0.12	0.08	66.23	15.97	5.54	3.06	0.51	0.03	0.06	
13	0.09	0.10	0.22	0.12	0.10	69.55	13.24	7.08	2.58	0.54	0.10	0.06	
14	0.09	0.10	0.18	0.12	0.10	70.95	12.07	8.45	2.82	0.54	0.09	0.06	
15	0.09	0.10	0.12	0.12	0.10	73.22	10.20	11.20	2.74	0.48	0.09	0.06	
16	0.09	0.10	0.12	0.12	0.20	76.04	7.88	12.33	2.43	0.42	0.09	0.06	
17	0.12	0.10	0.12	0.12	0.16	77.84	5.76	13.64	2.22	0.36	0.09	0.06	
18	0.14	0.10	0.12	0.12	0.10	81.26	4.50	17.60	1.94	0.30	0.09	0.06	
19	0.10	0.10	0.16	0.12	0.09	78.20	2.82	25.55	1.87	0.26	0.09	0.06	
20	0.10	0.10	0.12	0.18	0.09	76.04	4.50	27.65	1.80	0.24	0.08	0.06	
21	0.09	0.10	0.22	0.16	0.08	78.56	3.06	26.75	1.70	0.22	0.08	0.06	
22	0.09	0.10	0.16	0.12	0.14	84.32	3.14	24.95	1.60	0.20	0.08	0.06	
23	0.09	0.10	0.12	0.12	0.24	86.84	4.50	23.15	1.10	0.20	0.07	0.06	
24	0.09	0.10	0.12	0.12	0.14	82.88	4.50	20.90	1.14	0.20	0.07	0.05	
25	0.09	0.09	0.12	0.12	0.12	74.45	7.30	18.50	1.26	0.18	0.07	0.05	
26	0.09	0.09	0.12	0.10	0.12	64.30	4.70	16.40	1.18	0.16	0.07	0.05	
27	0.09	0.12	0.12	0.10	0.75	55.62	4.02	14.99	1.18	0.18	0.07	0.05	
28	0.09	0.18	0.12	0.10	0.63	48.65	4.02	13.77	1.22	0.12	0.07	0.05	
29	0.10	0.14	0.12	0.10	0.33	41.00	4.02	12.46	0.98	0.12	0.07	0.05	
30	0.14	0.12	0.14	0.12	0.26	34.08	4.02	11.32	0.87	0.12		0.05	
31		0.10		0.12	0.24		3.86		0.78	0.10		0.02	
TOTAL	3.02	3.38	4.18	4.38	5.09	1508.60	403.49	381.00	101.28	12.77	2.78	1.81	2431.78 CMSDAY
MEAN	0.10	0.11	0.14	0.14	0.16	50.29	13.02	12.70	3.27	0.41	0.10	0.06	6.64 CMS
MAX	0.14	0.18	0.22	0.36	0.75	86.84	41.85	27.65	9.82	0.78	0.26	0.07	86.84 CMS
MIN	0.09	0.09	0.10	0.10	0.07	0.30	2.82	4.02	0.78	0.10	0.03	0.02	0.02 CMS
RUNOFF	0.261	0.292	0.361	0.378	0.440	130.343	34.862	32.918	8.751	1.103	0.240	0.156	210.106 MCM

MOMENTARY PEAK 86.84 CMS, AT 6.23 M (A.D), AT 12.00 HOURS, ON SEP 23, 1987

RUNOFF YIELD 6.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 79.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

HUAI TAKO AT BAN KHOK KACHAO, BURIRAM (M.99)

LOCATION — LAT. 14°-36'-22" N., LONG. 103°-06'-30" E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 103-104 AND ABOUT 2.5 KILOMETERS FROM AMPHOE PRAKHON CHAI, BAN KHOK KACHAO, AMPHOE PRAKHON CHAI, BURI RAM.

DRAINAGE AREA — 88 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPT.

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

ELEVATION — +3.606 M..D.

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

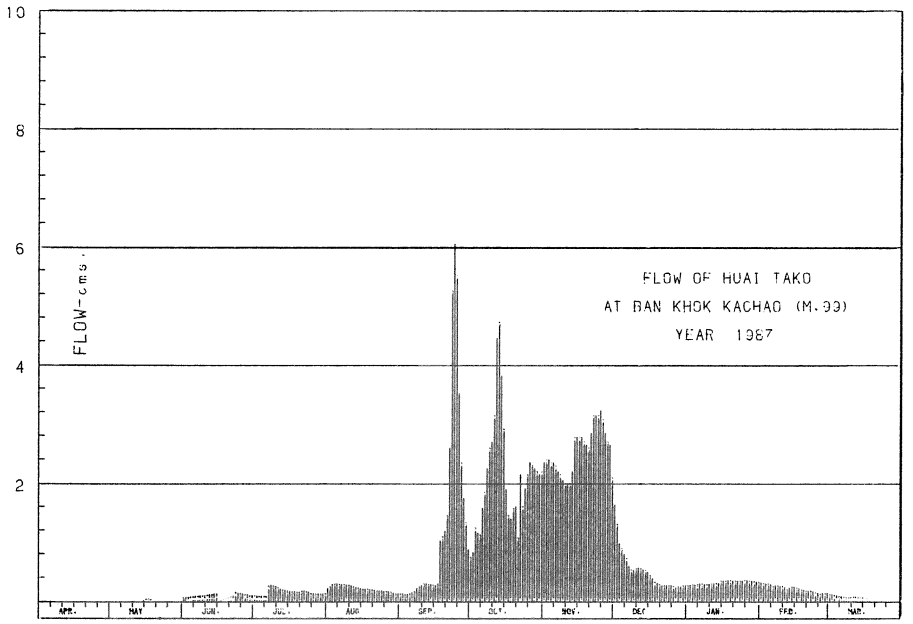
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. NO RECORDS ON APR.1-MAY14,1987. STAGE-DISCHARGE RELATION DEFINED BY 13 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.15	0.19	0.42	0.25	0.86	1.33	1.18	0.47	0.52	0.25	
2	*******	*******	0.14	0.18	0.45	0.25	0.89	1.34	1.07	0.48	0.51	0.23	
3	*******	*******	0.14	0.17	0.49	0.24	1.05	1.34	0.95	0.48	0.50	0.21	
4	*******	*******	0.15	0.17	0.50	0.23	1.02	1.33	0.92	0.48	0.50	0.20	
5	*******	*******	0.17	0.18	0.50	0.25	1.01	1.33	0.88	0.49	0.49	0.18	
6	*******	*******	0.18	0.18	0.49	0.30	1.16	1.32	0.85	0.50	0.46	0.17	
7	*******	*******	0.18	0.47	0.49	0.33	1.23	1.30	0.80	0.50	0.47	0.16	
8	*******	*******	0.19	0.48	0.49	0.42	1.31	1.29	0.74	0.49	0.47	0.14	
9	*******	*******	0.20	0.47	0.48	0.45	1.38	1.27	0.73	0.49	0.46	0.13	
10	*******	*******	0.20	0.46	0.48	0.47	1.40	1.26	0.76	0.49	0.46	0.14	
11	*******	*******	0.21	0.44	0.47	0.50	1.46	1.26	0.77	0.50	0.44	0.15	
12	*******	*******	0.23	0.41	0.45	0.50	1.61	1.26	0.76	0.50	0.40	0.15	
13	*******	*******	0.24	0.40	0.44	0.49	1.62	1.30	0.74	0.51	0.43	0.14	
14	*******	*******	0.25	0.38	0.43	0.49	1.55	1.41	0.73	0.51	0.45	0.13	
15	*******	0.05	0.25	0.36	0.42	0.48	1.43	1.41	0.70	0.55	0.45	0.13	
16	*******	0.09	0.05	0.34	0.41	0.47	1.24	1.41	0.64	0.55	0.43	0.12	
17	*******	0.09	0.06	0.34	0.41	0.50	1.12	1.41	0.59	0.55	0.42	0.10	
18	*******	0.07	0.08	0.33	0.41	0.97	1.10	1.40	0.53	0.56	0.40	0.09	
19	*******	0.06	0.10	0.32	0.40	1.00	1.16	1.39	0.51	0.56	0.39	0.08	
20	*******	0.05	0.12	0.31	0.40	1.03	1.17	1.38	0.49	0.55	0.36	0.06	
21	*******	0.04	0.15	0.35	0.38	1.12	0.99	1.42	0.47	0.55	0.35	0.05	
22	*******	0.03	0.18	0.35	0.36	1.38	1.29	1.46	0.47	0.55	0.35	0.05	
23	*******	0.03	0.31	0.33	0.35	1.64	1.17	1.46	0.47	0.55	0.33	0.04	
24	*******	0.02	0.29	0.31	0.35	1.67	1.24	1.46	0.47	0.55	0.30	0.03	
25	*******	0.02	0.27	0.29	0.34	1.65	1.29	1.47	0.47	0.56	0.28	0.02	
26	*******	0.01	0.26	0.28	0.33	1.51	1.33	1.45	0.46	0.56	0.26	0.01	
27	*******	0.00	0.24	0.26	0.33	1.33	1.33	1.42	0.43	0.55	0.28	0.00	
28	*******	-0.02	0.23	0.26	0.32	1.21	1.31	1.40	0.45	0.55	0.28	0.00	
29	*******	-0.03	0.20	0.25	0.28	1.08	1.30	1.39	0.45	0.54	0.27	0.00	
30	*******	-0.06	0.19	0.26	0.26	0.91	1.29	1.28	0.47	0.54		0.00	
31		-0.08		0.29	0.25		1.30		0.47	0.53		0.00	
MEAN	*******	*******	0.19	0.32	0.41	0.77	1.25	1.37	0.66	0.52	0.40	0.10	
MAX	*******	0.09	0.31	0.48	0.50	1.67	1.62	1.47	1.18	0.56	0.52	0.25	1.67
MIN	*******	*******	0.05	0.17	0.25	0.23	0.86	1.26	0.43	0.47	0.26	0.00	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.67 M (A.D), AT 6.00 HOURS, ON SEP 25, 1987
ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.01 M (A.D)
LEFT BANK ELEVATION — 2.46 M (A.D)
RIGHT BANK ELEVATION — 2.42 M (A.D), DRAINAGE AREA — 88 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.08	0.10	0.22	0.13	0.75	2.35	1.64	0.27	0.32	0.13	
2	*******	*******	0.07	0.09	0.25	0.13	0.83	2.40	1.31	0.28	0.31	0.12	
3	*******	*******	0.07	0.09	0.29	0.12	1.25	2.40	0.98	0.28	0.30	0.11	
4	*******	*******	0.08	0.09	0.30	0.12	1.16	2.35	0.90	0.28	0.30	0.10	
5	*******	*******	0.09	0.09	0.30	0.13	1.13	2.35	0.80	0.29	0.29	0.09	
6	*******	*******	0.09	0.09	0.29	0.15	1.58	2.30	0.73	0.30	0.26	0.09	
7	*******	*******	0.09	0.27	0.29	0.17	1.85	2.20	0.60	0.30	0.27	0.08	
8	*******	*******	0.10	0.28	0.29	0.22	2.25	2.15	0.54	0.29	0.27	0.07	
9	*******	*******	0.10	0.27	0.28	0.25	2.60	2.05	0.53	0.29	0.26	0.07	
10	*******	*******	0.10	0.26	0.28	0.27	2.70	2.00	0.56	0.29	0.26	0.07	
11	*******	*******	0.11	0.24	0.27	0.30	3.15	2.00	0.57	0.30	0.24	0.08	
12	*******	*******	0.12	0.21	0.25	0.30	4.46	2.00	0.56	0.30	0.20	0.08	
13	*******	*******	0.12	0.20	0.24	0.29	4.73	2.20	0.54	0.31	0.23	0.07	
14	*******	*******	0.13	0.19	0.23	0.29	3.82	2.78	0.53	0.31	0.25	0.07	
15	*******	0.02	0.13	0.18	0.22	0.28	2.92	2.78	0.50	0.35	0.25	0.07	
16	*******	0.04	0.02	0.17	0.21	0.27	1.90	2.78	0.44	0.35	0.23	0.06	
17	*******	0.04	0.02	0.17	0.21	0.30	1.46	2.78	0.39	0.35	0.22	0.05	
18	*******	0.03	0.04	0.17	0.21	1.03	1.40	2.70	0.33	0.36	0.20	0.04	
19	*******	0.02	0.05	0.16	0.20	1.10	1.58	2.65	0.31	0.36	0.19	0.04	
20	*******	0.02	0.06	0.16	0.20	1.19	1.61	2.60	0.29	0.35	0.18	0.02	
21	*******	0.01	0.08	0.18	0.19	1.46	1.08	2.85	0.27	0.35	0.18	0.02	
22	*******	0.01	0.09	0.18	0.18	2.60	2.15	3.15	0.27	0.35	0.18	0.02	
23	*******	0.01	0.16	0.17	0.18	5.26	1.61	3.15	0.27	0.35	0.17	0.01	
24	*******	0.00	0.14	0.16	0.18	6.05	1.90	3.15	0.27	0.35	0.15	0.01	
25	*******	0.00	0.14	0.14	0.17	5.52	2.15	3.23	0.27	0.36	0.14	0.00	
26	*******	0.00	0.13	0.14	0.17	3.52	2.35	3.08	0.26	0.36	0.13	0.00	
27	*******	0.00	0.12	0.13	0.17	2.35	2.35	2.85	0.23	0.35	0.14	0.00	
28	*******	0.00	0.12	0.13	0.16	1.75	2.25	2.70	0.25	0.35	0.14	0.00	
29	*******	0.00	0.10	0.13	0.14	1.34	2.20	2.65	0.25	0.34	0.14	0.00	
30	*******	0.00	0.10	0.13	0.13	0.88	2.15	2.10	0.27	0.34		0.00	
31		0.00		0.14	0.13		2.20		0.27	0.33		0.00	
TOTAL	*******	*******	2.85	5.11	6.83	37.77	65.52	76.73	15.93	10.04	6.40	1.57	******** CMSDAY
MEAN	*******	*******	0.09	0.16	0.22	1.26	2.11	2.56	0.51	0.32	0.22	0.05	******** CMS
MAX	*******	0.04	0.16	0.28	0.30	6.05	4.73	3.23	1.64	0.36	0.32	0.13	6.05 CMS
MIN	*******	*******	0.02	0.09	0.13	0.12	0.75	2.00	0.23	0.27	0.13	0.00	******** CMS
RUNOFF	*******	*******	0.246	0.442	0.590	3.263	5.661	6.629	1.376	0.867	0.553	0.136	******** MCM

MOMENTARY PEAK 6.05 CMS, AT 1.67 M (A.D), AT 6.00 HOURS, ON SEP 25, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 68.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

HUAI SANENG AT BAN BU CHEK, SURIN (M.100)

LOCATION — LAT. 14°-37'-01" N., LONG. 103°-28'-44" E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 145-146 AND ABOUT 8 KILOMETERS FROM AMPHOE PRASAT, TAMBON TA BAO, AMPHOE PRASAT, SURIN.

DRAINAGE AREA — 131 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPT.

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

ELEVATION — +3.332 M.(A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 8 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

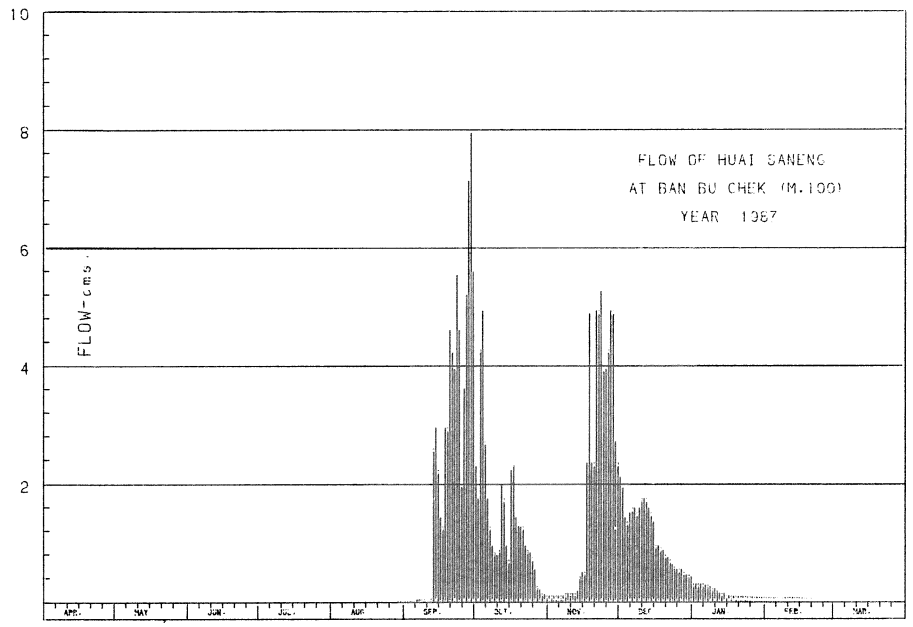
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.38	0.26	0.32	0.34	0.45	1.45	1.00	1.43	1.10	0.85	0.66	
2	0.36	0.38	0.29	0.30	0.36	0.54	1.40	1.00	1.42	1.10	0.84	0.65	
3	0.36	0.38	0.30	0.30	0.36	0.44	1.54	1.00	1.36	1.10	0.82	0.66	
4	0.36	0.36	0.30	0.32	0.36	0.43	1.56	1.00	1.35	1.10	0.82	0.65	
5	0.36	0.35	0.32	0.32	0.35	0.45	1.48	1.00	1.37	1.10	0.80	0.65	
6	0.35	0.35	0.31	0.32	0.33	0.66	1.40	1.00	1.38	1.09	0.80	0.64	
7	0.35	0.34	0.30	0.32	0.32	0.68	1.34	1.00	1.38	1.09	0.78	0.64	
8	0.35	0.34	0.32	0.33	0.31	0.67	1.30	1.02	1.37	1.08	0.78	0.62	
9	0.35	0.34	0.30	0.33	0.31	0.66	1.27	1.02	1.38	1.06	0.85	0.60	
10	0.35	0.35	0.30	0.33	0.31	0.65	1.26	1.02	1.40	1.06	0.84	0.60	
11	0.34	0.38	0.30	0.32	0.32	0.74	1.28	1.02	1.40	1.04	0.86	0.58	
12	0.34	0.38	0.30	0.32	0.32	0.74	1.42	1.02	1.40	1.02	0.84	0.58	
13	0.34	0.36	0.36	0.32	0.32	1.47	1.40	1.04	1.38	1.02	0.84	0.57	
14	0.34	0.35	0.38	0.30	0.32	1.50	1.30	1.15	1.37	1.02	0.84	0.56	
15	0.32	0.35	0.38	0.30	0.32	1.44	1.24	1.18	1.35	1.00	0.82	0.56	
16	0.32	0.34	0.38	0.30	0.32	1.36	1.44	1.18	1.30	1.00	0.80	0.56	
17	0.30	0.34	0.38	0.30	0.32	1.34	1.45	1.45	1.30	0.98	0.80	0.54	
18	0.30	0.33	0.38	0.30	0.32	1.50	1.36	1.56	1.29	0.98	0.78	0.54	
19	0.32	0.32	0.38	0.35	0.32	1.50	1.35	1.45	1.28	0.96	0.78	0.52	
20	0.35	0.32	0.38	0.34	0.32	1.55	1.34	1.45	1.26	0.96	0.78	0.52	
21	0.35	0.31	0.38	0.32	0.32	1.54	1.34	1.56	1.25	0.93	0.77	0.54	
22	0.35	0.31	0.38	0.32	0.31	1.53	1.30	1.56	1.24	0.94	0.75	0.54	
23	0.35	0.30	0.38	0.32	0.35	1.58	1.28	1.57	1.22	0.94	0.75	0.53	
24	0.35	0.30	0.37	0.33	0.35	1.55	1.27	1.53	1.21	0.92	0.72	0.52	
25	0.34	0.29	0.36	0.32	0.35	1.42	1.25	1.53	1.20	0.90	0.70	0.52	
26	0.32	0.29	0.32	0.32	0.35	1.52	1.20	1.54	1.20	0.90	0.70	0.50	
27	0.40	0.29	0.32	0.32	0.33	1.57	1.08	1.56	1.20	0.88	0.69	0.50	
28	0.38	0.28	0.30	0.32	0.32	1.61	1.05	1.56	1.18	0.88	0.68	0.50	
29	0.38	0.28	0.30	0.32	0.50	1.62	1.02	1.48	1.16	0.86	0.67	0.48	
30	0.38	0.27	0.32	0.32	0.48	1.58	1.01	1.45	1.16	0.86		0.48	
31		0.27		0.32	0.46		1.00		1.15	0.85		0.48	
MEAN	0.35	0.33	0.34	0.32	0.34	1.14	1.30	1.26	1.30	0.99	0.78	0.56	
MAX	0.40	0.38	0.38	0.35	0.50	1.62	1.56	1.57	1.43	1.10	0.86	0.66	1.62
MIN	0.30	0.27	0.26	0.30	0.31	0.43	1.00	1.00	1.15	0.85	0.67	0.48	0.26

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.62 M (A.D), AT 6.00 HOURS, ON SEP 29, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.11 M (A.D)

LEFT BANK ELEVATION — 2.14 M (A.D)

RIGHT BANK ELEVATION — 2.12 M (A.D), DRAINAGE AREA — 131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	0.000	0.000	0.005	2.350	0.100	2.110	0.300	0.070	0.032	
2	0.000	0.000	0.000	0.000	0.000	0.014	1.750	0.100	1.990	0.300	0.068	0.030	
3	0.000	0.000	0.000	0.000	0.000	0.004	4.270	0.100	1.430	0.300	0.064	0.032	
4	0.000	0.000	0.000	0.000	0.000	0.003	4.930	0.100	1.350	0.300	0.064	0.030	
5	0.000	0.000	0.000	0.000	0.000	0.005	2.710	0.100	1.510	0.300	0.060	0.030	
6	0.000	0.000	0.000	0.000	0.000	0.032	1.750	0.100	1.590	0.280	0.060	0.028	
7	0.000	0.000	0.000	0.000	0.000	0.036	1.270	0.100	1.590	0.280	0.056	0.028	
8	0.000	0.000	0.000	0.000	0.000	0.034	0.950	0.140	1.510	0.260	0.056	0.024	
9	0.000	0.000	0.000	0.000	0.000	0.032	0.830	0.140	1.590	0.220	0.070	0.020	
10	0.000	0.000	0.000	0.000	0.000	0.030	0.790	0.140	1.750	0.220	0.068	0.020	
11	0.000	0.000	0.000	0.000	0.000	0.048	0.870	0.140	1.750	0.180	0.072	0.018	
12	0.000	0.000	0.000	0.000	0.000	0.048	1.990	0.140	1.750	0.140	0.068	0.018	
13	0.000	0.000	0.000	0.000	0.000	2.590	1.750	0.180	1.590	0.140	0.068	0.017	
14	0.000	0.000	0.000	0.000	0.000	2.950	0.950	0.425	1.510	0.140	0.068	0.016	
15	0.000	0.000	0.000	0.000	0.000	2.230	0.710	0.500	1.350	0.100	0.064	0.016	
16	0.000	0.000	0.000	0.000	0.000	1.430	2.230	0.500	0.950	0.100	0.060	0.016	
17	0.000	0.000	0.000	0.000	0.000	1.270	2.350	2.350	0.950	0.096	0.060	0.014	
18	0.000	0.000	0.000	0.000	0.000	2.950	1.430	4.930	0.910	0.096	0.056	0.014	
19	0.000	0.000	0.000	0.000	0.000	2.950	1.350	2.350	0.870	0.092	0.056	0.012	
20	0.000	0.000	0.000	0.000	0.000	4.600	1.270	2.350	0.790	0.092	0.056	0.012	
21	0.000	0.000	0.000	0.000	0.000	4.270	1.270	4.930	0.750	0.086	0.054	0.014	
22	0.000	0.000	0.000	0.000	0.000	3.940	0.950	4.930	0.710	0.088	0.050	0.014	
23	0.000	0.000	0.000	0.000	0.000	5.590	0.870	5.260	0.630	0.088	0.050	0.013	
24	0.000	0.000	0.000	0.000	0.000	4.600	0.830	3.940	0.590	0.084	0.044	0.012	
25	0.000	0.000	0.000	0.000	0.000	1.990	0.750	3.940	0.550	0.080	0.040	0.012	
26	0.000	0.000	0.000	0.000	0.000	3.610	0.550	4.270	0.550	0.080	0.040	0.010	
27	0.000	0.000	0.000	0.000	0.000	5.260	0.260	4.930	0.550	0.076	0.038	0.010	
28	0.000	0.000	0.000	0.000	0.000	7.125	0.200	4.930	0.500	0.076	0.036	0.010	
29	0.000	0.000	0.000	0.000	0.010	8.000	0.140	2.710	0.450	0.072	0.034	0.008	
30	0.000	0.000	0.000	0.000	0.008	5.590	0.120	2.350	0.450	0.072		0.008	
31		0.000		0.000	0.006		0.100		0.425	0.070		0.008	
TOTAL	0.000	0.000	0.000	0.000	0.024	71.236	42.540	57.175	34.995	4.808	1.650	0.546	212.974 CMSDAY
MEAN	0.000	0.000	0.000	0.000	0.001	2.375	1.372	1.906	1.129	0.155	0.057	0.018	0.582 CMS
MAX	0.000	0.000	0.000	0.000	0.010	8.000	4.930	5.260	2.110	0.300	0.072	0.032	8.000 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.003	0.100	0.100	0.425	0.070	0.034	0.008	0.000 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.002	6.155	3.675	4.940	3.024	0.415	0.143	0.047	18.401 MCM

MOMENTARY PEAK 8.00 CMS, AT 1.62 M (A.D), AT 6.00 HOURS, ON SEP 29, 1987

RUNOFF YIELD 4.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 61.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

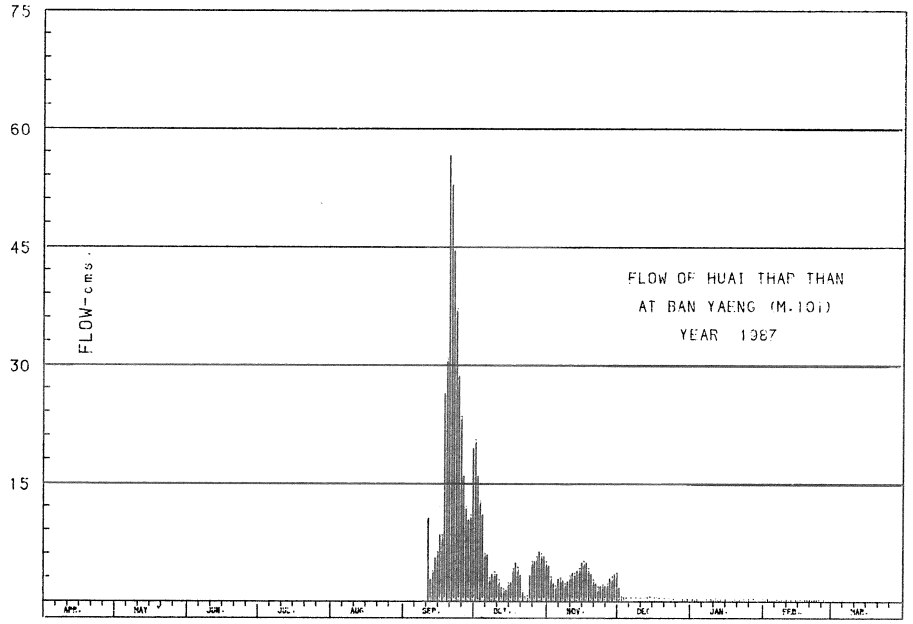
HUAI THAP THAN AT BAN YAENG, SURIN (M.101)

LOCATION	LAT. 14°-37'-42" N., LONG. 103°-42'-12" E., ON LEFT BANK AT THE BRIDE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 170-171 AND ABOUT 17 KILOMETERS FROM AMPHOE SANGKHA, BAN YAENG, TAMBON KRA THIAM, AMPHOE SANGKHA, SURIN.
DRAINAGE AREA	390 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.945 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.02	4.79	4.69	4.70	4.67	4.74	6.86	6.40	6.19	5.61	5.60	5.34	
2	4.99	4.78	4.75	4.70	4.68	4.74	6.77	6.31	6.02	5.62	5.59	5.33	
3	4.98	4.77	4.75	4.69	4.68	4.74	6.70	6.24	5.97	5.62	5.58	5.32	
4	4.97	4.76	4.75	4.74	4.67	4.74	6.65	6.22	5.94	5.61	5.57	5.31	
5	4.96	4.75	4.75	4.75	4.66	4.76	6.48	6.29	5.92	5.61	5.56	5.30	
6	4.95	4.74	4.74	4.77	4.65	5.00	6.47	6.30	5.93	5.60	5.55	5.29	
7	4.94	4.73	4.73	4.76	4.64	5.03	6.30	6.27	5.92	5.60	5.54	5.28	
8	4.93	4.72	4.73	4.75	4.63	5.06	6.33	6.24	5.92	5.59	5.53	5.27	
9	4.93	4.71	4.72	4.74	4.62	5.07	6.35	6.26	5.85	5.59	5.53	5.26	
10	4.92	4.73	4.72	4.73	4.66	5.12	6.33	6.32	5.85	5.58	5.52	5.25	
11	4.91	4.72	4.72	4.73	4.71	6.64	6.28	6.34	5.86	5.87	5.51	5.24	
12	4.90	4.72	4.72	4.72	4.71	6.28	6.20	6.34	5.91	5.57	5.50	5.23	
13	4.90	4.71	4.74	4.71	4.71	6.36	6.18	6.36	5.99	5.56	5.50	5.22	
14	4.92	4.71	4.75	4.73	4.70	6.45	6.15	6.38	6.02	5.55	5.49	5.21	
15	4.93	4.70	4.75	4.72	4.70	6.49	6.25	6.42	5.98	5.54	5.48	5.20	
16	4.92	4.69	4.75	4.72	4.70	6.57	6.25	6.43	5.96	5.53	5.47	5.19	
17	4.92	4.68	4.74	4.71	4.70	6.57	6.38	6.42	5.93	5.52	5.46	5.18	
18	4.91	4.67	4.74	4.71	4.71	6.95	6.42	6.38	5.88	5.52	5.45	5.17	
19	4.90	4.66	4.74	4.73	4.71	7.01	6.39	6.33	5.84	5.51	5.44	5.16	
20	4.89	4.74	4.74	4.73	4.71	7.24	6.32	6.28	5.81	5.51	5.43	5.15	
21	4.88	4.73	4.75	4.72	4.70	7.22	6.16	6.24	5.75	5.50	5.42	5.14	
22	4.87	4.72	4.74	4.72	4.70	7.15	6.02	6.21	5.70	5.51	5.41	5.13	
23	4.85	4.71	4.74	4.72	4.72	7.08	6.05	6.21	5.69	5.54	5.40	5.12	
24	4.83	4.70	4.73	4.72	4.76	6.98	6.32	6.23	5.68	5.57	5.39	5.11	
25	4.83	4.69	4.73	4.71	4.76	6.91	6.43	6.21	5.69	5.58	5.38	5.10	
26	4.82	4.68	4.73	4.70	4.75	6.77	6.43	6.24	5.66	5.60	5.37	5.09	
27	4.82	4.67	4.72	4.69	4.75	6.68	6.46	6.29	5.65	5.60	5.36	5.08	
28	4.81	4.66	4.72	4.67	4.74	6.63	6.49	6.31	5.64	5.60	5.35	5.07	
29	4.80	4.68	4.71	4.64	4.74	6.65	6.48	6.33	5.63	5.60	5.34	5.06	
30	4.79	4.70	4.71	4.67	4.73	6.84	6.46	6.34	5.62	5.61		5.05	
31		4.70		4.66	4.73		6.43		5.61	5.60		5.04	
MEAN	4.90	4.71	4.73	4.71	4.70	6.15	6.38	6.30	5.84	5.58	5.47	5.19	
MAX	5.02	4.79	4.75	4.77	4.76	7.24	6.86	6.43	6.19	5.87	5.60	5.34	7.24
MIN	4.79	4.66	4.69	4.64	4.62	4.74	6.02	6.21	5.61	5.50	5.34	5.04	4.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.24 M (A.D), AT 6.00 HOURS, ON SEP 20, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.91 M (A.D)
LEFT BANK ELEVATION 7.71 M (A.D)
RIGHT BANK ELEVATION 7.75 M (A.D), DRAINAGE AREA 390 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.010	0.000	0.000	0.000	0.000	0.000	20.550	4.500	1.675	0.305	0.300	0.170	
2	0.000	0.000	0.000	0.000	0.000	0.000	15.900	3.150	0.600	0.310	0.295	0.165	
3	0.000	0.000	0.000	0.000	0.000	0.000	12.750	2.250	0.485	0.310	0.290	0.160	
4	0.000	0.000	0.000	0.000	0.000	0.000	11.000	2.000	0.470	0.305	0.285	0.155	
5	0.000	0.000	0.000	0.000	0.000	0.000	6.100	2.875	0.460	0.305	0.280	0.150	
6	0.000	0.000	0.000	0.000	0.000	0.000	5.900	3.000	0.465	0.300	0.275	0.145	
7	0.000	0.000	0.000	0.000	0.000	0.015	3.000	2.625	0.460	0.300	0.270	0.140	
8	0.000	0.000	0.000	0.000	0.000	0.030	3.450	2.250	0.460	0.295	0.265	0.135	
9	0.000	0.000	0.000	0.000	0.000	0.035	3.750	2.500	0.425	0.295	0.265	0.130	
10	0.000	0.000	0.000	0.000	0.000	0.060	3.450	3.300	0.425	0.290	0.260	0.125	
11	0.000	0.000	0.000	0.000	0.000	10.650	2.750	3.600	0.430	0.435	0.255	0.120	
12	0.000	0.000	0.000	0.000	0.000	2.750	1.750	3.600	0.455	0.285	0.250	0.115	
13	0.000	0.000	0.000	0.000	0.000	3.900	1.600	3.900	0.495	0.280	0.250	0.110	
14	0.000	0.000	0.000	0.000	0.000	5.500	1.375	4.200	0.600	0.275	0.245	0.105	
15	0.000	0.000	0.000	0.000	0.000	6.300	2.375	4.900	0.490	0.270	0.240	0.100	
16	0.000	0.000	0.000	0.000	0.000	8.425	2.375	5.100	0.480	0.265	0.235	0.095	
17	0.000	0.000	0.000	0.000	0.000	8.425	4.200	4.900	0.465	0.260	0.230	0.090	
18	0.000	0.000	0.000	0.000	0.000	26.375	4.900	4.200	0.440	0.260	0.225	0.085	
19	0.000	0.000	0.000	0.000	0.000	30.900	4.350	3.450	0.420	0.255	0.220	0.080	
20	0.000	0.000	0.000	0.000	0.000	56.600	3.300	2.750	0.405	0.255	0.215	0.075	
21	0.000	0.000	0.000	0.000	0.000	53.300	1.450	2.250	0.375	0.250	0.210	0.070	
22	0.000	0.000	0.000	0.000	0.000	44.500	0.600	1.875	0.350	0.255	0.205	0.065	
23	0.000	0.000	0.000	0.000	0.000	37.200	0.750	1.875	0.345	0.270	0.200	0.060	
24	0.000	0.000	0.000	0.000	0.000	28.550	3.300	2.125	0.340	0.285	0.195	0.055	
25	0.000	0.000	0.000	0.000	0.000	23.475	5.100	1.875	0.345	0.290	0.190	0.050	
26	0.000	0.000	0.000	0.000	0.000	15.900	5.100	2.250	0.330	0.300	0.185	0.045	
27	0.000	0.000	0.000	0.000	0.000	12.050	5.700	2.875	0.325	0.300	0.180	0.040	
28	0.000	0.000	0.000	0.000	0.000	10.300	6.300	3.150	0.320	0.300	0.175	0.035	
29	0.000	0.000	0.000	0.000	0.000	11.000	6.100	3.450	0.315	0.300	0.170	0.030	
30	0.000	0.000	0.000	0.000	0.000	19.450	5.700	3.600	0.310	0.305		0.025	
31		0.000		0.000	0.000		5.100		0.305	0.300		0.020	
TOTAL	0.010	0.000	0.000	0.000	0.000	415.690	160.025	94.375	14.265	9.010	6.860	2.945	703.180 CMSDAY
MEAN	0.000	0.000	0.000	0.000	0.000	13.856	5.162	3.146	0.460	0.291	0.237	0.095	1.921 CMS
MAX	0.010	0.000	0.000	0.000	0.000	56.600	20.550	5.100	1.675	0.435	0.300	0.170	56.600 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.600	1.875	0.305	0.250	0.170	0.020	0.000 CMS
RUNOFF	0.001	0.000	0.000	0.000	0.000	35.916	13.826	8.154	1.232	0.778	0.593	0.254	60.755 MCM

MOMENTARY PEAK 56.60 CMS, AT 7.24 M (A.D), AT 6.00 HOURS, ON SEP 20, 1987
RUNOFF YIELD 4.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 145.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

HUAI SEN AT BAN PHON CHAI, SURIN (M.102)

LOCATION — LAT. 14°-36'-50" N., LONG. 103°-53'-24" E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 192-193 AND ABOUT 4 KILOMETERS FROM AMPHOE SANGKHA, BAN PHON CHAI, TAMBON SANGKHA, AMPHOE SANGKHA, SURIN.

DRAINAGE AREA — 207 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M. (A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPT.

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

ELEVATION — +3.511 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

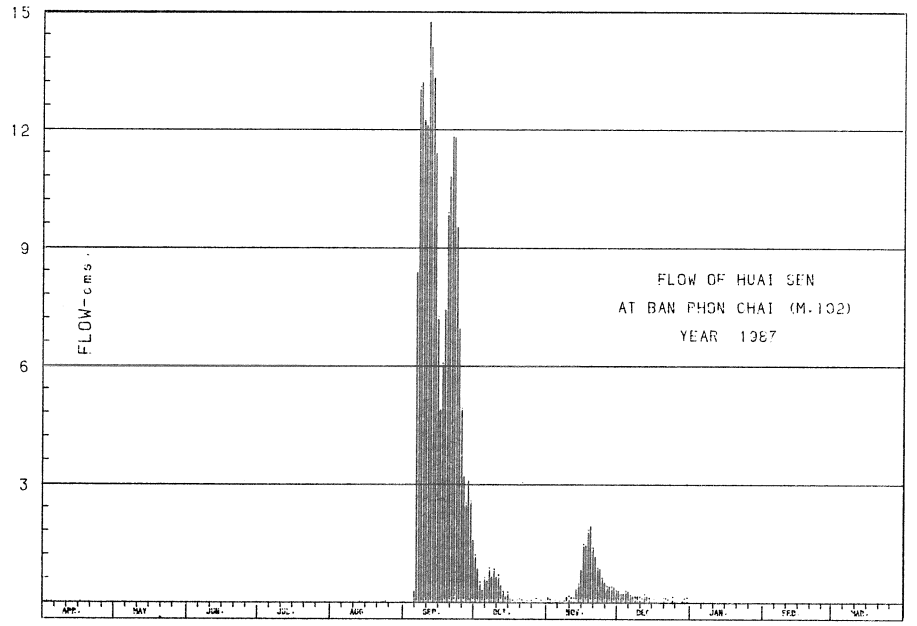
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.62	-0.68	-0.66	-0.70	-0.69	-0.62	-0.03	-0.53	-0.41	-0.57	-0.65	-0.65	
2	-0.62	-0.68	-0.66	-0.70	-0.69	-0.63	-0.15	-0.57	-0.46	-0.58	-0.65	-0.65	
3	-0.62	-0.68	-0.66	-0.70	-0.69	-0.64	-0.29	-0.59	-0.46	-0.59	-0.65	-0.65	
4	-0.62	-0.62	-0.67	-0.68	-0.69	-0.64	-0.40	-0.59	-0.40	-0.60	-0.65	-0.65	
5	-0.62	-0.62	-0.67	-0.68	-0.66	-0.40	-0.23	-0.58	-0.42	-0.61	-0.65	-0.65	
6	-0.63	-0.63	-0.67	-0.68	-0.66	1.06	-0.28	-0.60	-0.47	-0.62	-0.65	-0.65	
7	-0.63	-0.62	-0.66	-0.69	-0.67	1.55	-0.14	-0.59	-0.50	-0.65	-0.65	-0.65	
8	-0.63	-0.63	-0.64	-0.69	-0.66	1.56	-0.23	-0.61	-0.50	-0.66	-0.65	-0.65	
9	-0.63	-0.64	-0.64	-0.67	-0.63	1.47	-0.15	-0.52	-0.50	-0.64	-0.65	-0.65	
10	-0.63	-0.65	-0.64	-0.67	-0.64	1.45	-0.23	-0.49	-0.50	-0.66	-0.65	-0.65	
11	-0.63	-0.66	-0.64	-0.67	-0.64	1.72	-0.20	-0.52	-0.55	-0.66	-0.65	-0.65	
12	-0.64	-0.66	-0.64	-0.68	-0.65	1.65	-0.34	-0.53	-0.46	-0.64	-0.65	-0.65	
13	-0.64	-0.66	-0.64	-0.68	-0.62	1.58	-0.41	-0.39	-0.51	-0.64	-0.65	-0.65	
14	-0.63	-0.65	-0.64	-0.68	-0.64	1.38	-0.51	-0.31	-0.53	-0.64	-0.65	-0.65	
15	-0.62	-0.64	-0.65	-0.65	-0.65	0.92	-0.42	-0.16	-0.56	-0.65	-0.65	-0.65	
16	-0.63	-0.66	-0.65	-0.65	-0.65	0.61	-0.56	0.04	-0.57	-0.67	-0.65	-0.65	
17	-0.63	-0.66	-0.65	-0.65	-0.65	0.77	-0.59	0.03	-0.60	-0.68	-0.65	-0.65	
18	-0.63	-0.67	-0.65	-0.66	-0.65	0.94	-0.59	0.12	-0.58	-0.68	-0.65	-0.65	
19	-0.63	-0.67	-0.65	-0.66	-0.65	1.23	-0.59	0.14	-0.56	-0.69	-0.65	-0.65	
20	-0.63	-0.69	-0.64	-0.66	-0.65	1.32	-0.56	0.02	-0.54	-0.69	-0.65	-0.65	
21	-0.64	-0.71	-0.64	-0.66	-0.65	1.43	-0.58	-0.05	-0.54	-0.70	-0.65	-0.65	
22	-0.65	-0.72	-0.64	-0.66	-0.65	1.42	-0.58	-0.14	-0.57	-0.65	-0.65	-0.65	
23	-0.65	-0.72	-0.65	-0.66	-0.62	1.20	-0.59	-0.15	-0.56	-0.65	-0.65	-0.65	
24	-0.65	-0.72	-0.65	-0.66	-0.62	0.88	-0.58	-0.24	-0.50	-0.65	-0.65	-0.65	
25	-0.65	-0.72	-0.65	-0.66	-0.63	0.62	-0.59	-0.30	-0.60	-0.65	-0.65	-0.65	
26	-0.66	-0.72	-0.66	-0.66	-0.64	0.38	-0.59	-0.34	-0.59	-0.65	-0.65	-0.65	
27	-0.66	-0.70	-0.67	-0.66	-0.64	0.26	-0.55	-0.35	-0.61	-0.65	-0.65	-0.65	
28	-0.67	-0.68	-0.68	-0.67	-0.64	0.36	-0.56	-0.35	-0.55	-0.65	-0.65	-0.65	
29	-0.67	-0.65	-0.69	-0.67	-0.65	0.27	-0.59	-0.36	-0.55	-0.65	-0.65	-0.65	
30	-0.67	-0.65	-0.70	-0.68	-0.64	0.06	-0.59	-0.40	-0.53	-0.65		-0.65	
31		-0.66		-0.68	-0.64		-0.59		-0.57	-0.65		-0.65	
MEAN	-0.64	-0.67	-0.65	-0.67	-0.65	0.77	-0.43	-0.33	-0.52	-0.65	-0.65	-0.65	
MAX	-0.62	-0.62	-0.64	-0.65	-0.62	1.72	-0.03	0.14	-0.40	-0.57	-0.65	-0.65	1.72
MIN	-0.67	-0.72	-0.70	-0.70	-0.69	-0.64	-0.59	-0.61	-0.61	-0.70	-0.65	-0.65	-0.72

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.76 M (A.D), AT 15.00 HOURS, ON SEP 11, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — -0.72 M (A.D)

LEFT BANK ELEVATION — 2.18 M (A.D)

RIGHT BANK ELEVATION — 2.21 M (A.D), DRAINAGE AREA — 207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.030	0.000	0.000	0.000	0.000	0.030	1.210	0.120	0.285	0.080	0.000	0.000	
2	0.030	0.000	0.000	0.000	0.000	0.020	0.850	0.080	0.210	0.070	0.000	0.000	
3	0.030	0.000	0.000	0.000	0.000	0.010	0.520	0.060	0.210	0.060	0.000	0.000	
4	0.030	0.030	0.000	0.000	0.000	0.010	0.300	0.060	0.300	0.050	0.000	0.000	
5	0.030	0.030	0.000	0.000	0.000	0.300	0.640	0.070	0.270	0.040	0.000	0.000	
6	0.020	0.020	0.000	0.000	0.000	8.380	0.540	0.050	0.195	0.030	0.000	0.000	
7	0.020	0.030	0.000	0.000	0.000	13.100	0.880	0.060	0.150	0.000	0.000	0.000	
8	0.020	0.020	0.010	0.000	0.000	13.200	0.640	0.040	0.150	0.000	0.000	0.000	
9	0.020	0.010	0.010	0.000	0.020	12.300	0.850	0.130	0.150	0.010	0.000	0.000	
10	0.020	0.000	0.010	0.000	0.010	12.100	0.640	0.165	0.150	0.000	0.000	0.000	
11	0.020	0.000	0.010	0.000	0.010	14.820	0.700	0.130	0.100	0.000	0.000	0.000	
12	0.010	0.000	0.010	0.000	0.000	14.100	0.420	0.120	0.210	0.010	0.000	0.000	
13	0.010	0.000	0.010	0.000	0.030	13.400	0.285	0.320	0.140	0.010	0.000	0.000	
14	0.020	0.000	0.010	0.000	0.010	11.400	0.140	0.480	0.120	0.010	0.000	0.000	
15	0.030	0.010	0.000	0.000	0.000	7.260	0.270	0.820	0.090	0.000	0.000	0.000	
16	0.020	0.000	0.000	0.000	0.000	4.875	0.090	1.480	0.080	0.000	0.000	0.000	
17	0.020	0.000	0.000	0.000	0.000	6.075	0.060	1.435	0.050	0.000	0.000	0.000	
18	0.020	0.000	0.000	0.000	0.000	7.420	0.060	1.840	0.070	0.000	0.000	0.000	
19	0.020	0.000	0.000	0.000	0.000	9.900	0.060	1.930	0.090	0.000	0.000	0.000	
20	0.020	0.000	0.010	0.000	0.000	10.800	0.090	1.390	0.110	0.000	0.000	0.000	
21	0.010	0.000	0.010	0.000	0.000	11.900	0.070	1.150	0.110	0.000	0.000	0.000	
22	0.000	0.000	0.010	0.000	0.000	11.800	0.070	0.880	0.080	0.000	0.000	0.000	
23	0.000	0.000	0.000	0.000	0.030	9.600	0.060	0.850	0.090	0.000	0.000	0.000	
24	0.000	0.000	0.000	0.000	0.030	6.940	0.070	0.620	0.150	0.000	0.000	0.000	
25	0.000	0.000	0.000	0.000	0.020	4.950	0.060	0.500	0.050	0.000	0.000	0.000	
26	0.000	0.000	0.000	0.000	0.010	3.190	0.060	0.420	0.060	0.000	0.000	0.000	
27	0.000	0.000	0.000	0.000	0.010	2.530	0.100	0.400	0.040	0.000	0.000	0.000	
28	0.000	0.000	0.000	0.000	0.010	3.080	0.090	0.400	0.100	0.000	0.000	0.000	
29	0.000	0.000	0.000	0.000	0.000	2.585	0.060	0.380	0.100	0.000	0.000	0.000	
30	0.000	0.000	0.000	0.000	0.010	1.570	0.060	0.300	0.120	0.000		0.000	
31		0.000		0.000	0.010		0.060		0.080	0.000		0.000	
TOTAL	0.450	0.150	0.100	0.000	0.210	217.645	10.005	16.680	4.110	0.370	0.000	0.000	249.720 CMSDAY
MEAN	0.015	0.005	0.003	0.000	0.007	7.255	0.323	0.556	0.133	0.012	0.000	0.000	0.682 CMS
MAX	0.030	0.030	0.010	0.000	0.030	14.820	1.210	1.930	0.300	0.080	0.000	0.000	14.820 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.010	0.060	0.040	0.040	0.000	0.000	0.000	0.000 CMS
RUNOFF	0.039	0.013	0.009	0.000	0.018	18.805	0.864	1.441	0.355	0.032	0.000	0.000	21.576 MCM

MOMENTARY PEAK 15.26 CMS, AT 1.76 M (A.D), AT 15.00 HOURS, ON SEP 11, 1987

RUNOFF YIELD 3.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 73.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

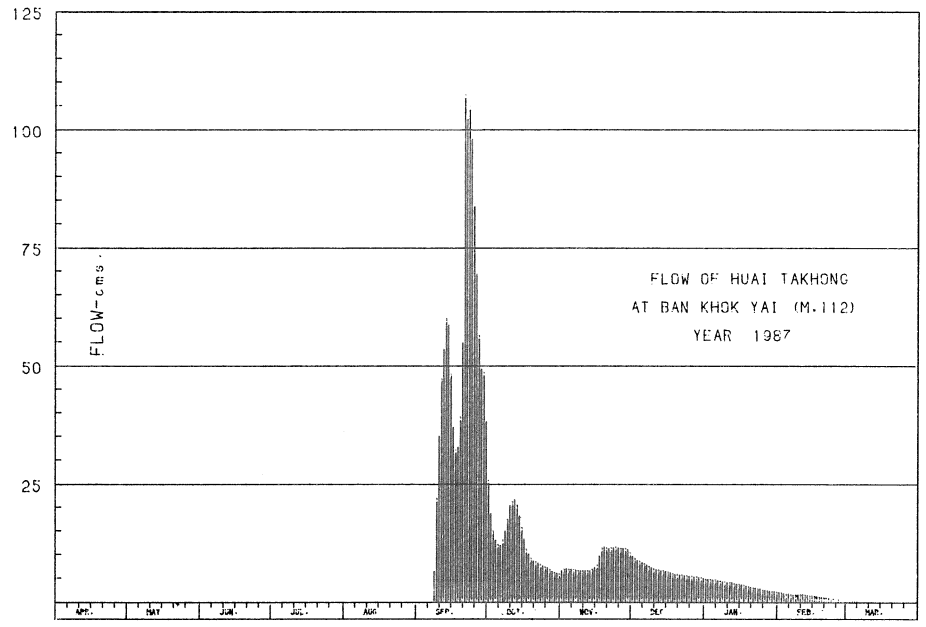
HUAI TAKHONG AT BAN KHOK YAI, BURI RAM (M.112)

LOCATION	LAT. 15°-11'-44" N., LONG. 103°-12'-22" E., ON LEFT BANK ATTHE BRIDGE ON HIGHWAY AT BAN KHOK YAI, AMPHOE SATUK, BURI RAM.
DRAINAGE AREA	1,156 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 5 METERS FROM THE GAGE SITE.
ELEVATION	+9.129 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	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 - 1987.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 - 1987.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.47	2.25	1.95	1.94	1.80	1.60	4.57	3.63	3.85	3.49	3.22	2.98	
2	2.46	2.24	1.94	1.93	1.79	1.63	4.29	3.65	3.82	3.49	3.21	2.97	
3	2.45	2.23	1.93	1.93	1.79	1.69	4.14	3.66	3.79	3.49	3.19	2.96	
4	2.44	2.22	1.93	1.95	1.78	1.68	4.05	3.65	3.78	3.48	3.18	2.95	
5	2.43	2.21	1.92	1.97	1.77	1.79	4.00	3.65	3.76	3.48	3.18	2.94	
6	2.42	2.19	1.90	1.97	1.77	2.04	3.99	3.65	3.74	3.47	3.17	2.93	
7	2.41	2.17	1.92	1.96	1.76	2.60	4.05	3.64	3.72	3.46	3.16	2.92	
8	2.42	2.16	1.92	1.96	1.75	3.62	4.14	3.63	3.70	3.45	3.16	2.95	
9	2.41	2.15	2.05	1.95	1.73	4.42	4.24	3.63	3.68	3.45	3.16	2.91	
10	2.40	2.16	2.04	1.95	1.71	4.89	4.36	3.63	3.66	3.44	3.17	2.90	
11	2.39	2.15	2.03	1.95	1.71	5.25	4.39	3.63	3.65	3.44	3.17	2.89	
12	2.38	2.13	2.03	1.94	1.70	5.43	4.41	3.63	3.64	3.44	3.16	2.87	
13	2.37	2.12	2.03	1.93	1.69	5.59	4.36	3.63	3.63	3.42	3.15	2.86	
14	2.36	2.11	2.02	1.92	1.68	5.56	4.27	3.65	3.63	3.41	3.14	2.85	
15	2.35	2.10	2.01	1.91	1.68	5.28	4.17	3.68	3.62	3.41	3.14	2.84	
16	2.34	2.09	2.01	1.90	1.66	4.95	4.06	3.72	3.61	3.40	3.13	2.83	
17	2.33	2.09	2.00	1.89	1.67	4.79	3.94	3.85	3.60	3.39	3.12	2.85	
18	2.32	2.07	1.99	1.88	1.67	4.81	3.88	3.96	3.58	3.37	3.11	2.81	
19	2.32	2.06	1.99	1.87	1.67	5.02	3.82	3.97	3.57	3.36	3.10	2.79	
20	2.32	2.06	1.99	1.87	1.67	5.47	3.78	3.96	3.57	3.34	3.09	2.77	
21	2.31	2.05	2.01	1.87	1.66	6.21	3.77	3.95	3.56	3.33	3.08	2.75	
22	2.30	2.04	2.01	1.86	1.65	6.18	3.75	3.96	3.56	3.32	3.06	2.73	
23	2.29	2.03	2.00	1.85	1.66	6.20	3.73	3.96	3.55	3.31	3.05	2.72	
24	2.28	2.02	1.99	1.84	1.65	6.15	3.71	3.97	3.55	3.30	3.04	2.71	
25	2.27	2.01	1.98	1.84	1.65	6.03	3.69	3.96	3.54	3.28	3.03	2.69	
26	2.26	2.00	1.97	1.83	1.64	5.79	3.68	3.95	3.54	3.27	3.02	2.68	
27	2.25	1.99	1.96	1.83	1.64	5.51	3.65	3.95	3.53	3.26	3.01	2.67	
28	2.27	1.98	1.95	1.83	1.63	5.31	3.62	3.95	3.53	3.25	3.00	2.65	
29	2.26	1.97	1.94	1.82	1.63	5.29	3.60	3.94	3.52	3.25	2.99	2.64	
30	2.26	1.97	1.94	1.81	1.62	4.99	3.59	3.90	3.52	3.24		2.62	
31		1.97		1.81	1.61		3.58		3.51	3.23		2.60	
MEAN	2.35	2.10	1.98	1.90	1.69	4.53	3.98	3.79	3.63	3.38	3.12	2.81	
MAX	2.47	2.25	2.05	1.97	1.80	6.21	4.57	3.97	3.85	3.49	3.22	2.98	6.21
MIN	2.25	1.97	1.90	1.81	1.61	1.60	3.58	3.63	3.51	3.23	2.99	2.60	1.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.23 M (A.D), AT 18.00 HOURS, ON SEP 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.18 M (A.D)
LEFT BANK ELEVATION 8.53 M (A.D)
RIGHT BANK ELEVATION 8.53 M (A.D), DRAINAGE AREA 1156 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	25.75	6.69	9.75	4.87	2.08	0.42	
2	0.00	0.00	0.00	0.00	0.00	0.00	18.75	6.95	9.30	4.87	1.99	0.38	
3	0.00	0.00	0.00	0.00	0.00	0.00	15.06	7.08	8.86	4.87	1.81	0.34	
4	0.00	0.00	0.00	0.00	0.00	0.00	13.15	6.95	8.72	4.74	1.72	0.30	
5	0.00	0.00	0.00	0.00	0.00	0.00	12.20	6.95	8.44	4.74	1.72	0.26	
6	0.00	0.00	0.00	0.00	0.00	0.00	12.03	6.95	8.16	4.61	1.63	0.22	
7	0.00	0.00	0.00	0.00	0.00	0.00	13.15	6.82	7.88	4.48	1.54	0.18	
8	0.00	0.00	0.00	0.00	0.00	6.56	15.06	6.69	7.60	4.35	1.54	0.30	
9	0.00	0.00	0.00	0.00	0.00	22.00	17.50	6.69	7.34	4.35	1.54	0.14	
10	0.00	0.00	0.00	0.00	0.00	35.20	20.50	6.69	7.08	4.22	1.63	0.10	
11	0.00	0.00	0.00	0.00	0.00	47.25	21.25	6.69	6.95	4.22	1.63	0.10	
12	0.00	0.00	0.00	0.00	0.00	53.55	21.75	6.69	6.82	4.22	1.54	0.08	
13	0.00	0.00	0.00	0.00	0.00	60.05	20.50	6.69	6.69	3.96	1.45	0.08	
14	0.00	0.00	0.00	0.00	0.00	58.70	18.25	6.95	6.69	3.83	1.36	0.07	
15	0.00	0.00	0.00	0.00	0.00	48.30	15.78	7.34	6.56	3.83	1.36	0.07	
16	0.00	0.00	0.00	0.00	0.00	37.00	13.34	7.88	6.43	3.70	1.27	0.06	
17	0.00	0.00	0.00	0.00	0.00	32.20	11.18	9.75	6.30	3.61	1.18	0.07	
18	0.00	0.00	0.00	0.00	0.00	32.80	10.20	11.52	6.04	3.43	1.09	0.05	
19	0.00	0.00	0.00	0.00	0.00	39.20	9.30	11.69	5.91	3.34	1.00	0.04	
20	0.00	0.00	0.00	0.00	0.00	54.95	8.72	11.52	5.91	3.16	0.95	0.03	
21	0.00	0.00	0.00	0.00	0.00	107.40	8.58	11.35	5.78	3.07	0.90	0.02	
22	0.00	0.00	0.00	0.00	0.00	102.20	8.30	11.52	5.78	2.98	0.80	0.01	
23	0.00	0.00	0.00	0.00	0.00	105.00	8.02	11.52	5.65	2.89	0.75	0.01	
24	0.00	0.00	0.00	0.00	0.00	98.00	7.74	11.69	5.65	2.80	0.70	0.00	
25	0.00	0.00	0.00	0.00	0.00	84.35	7.47	11.52	5.52	2.62	0.65	0.00	
26	0.00	0.00	0.00	0.00	0.00	69.50	7.34	11.35	5.52	2.53	0.60	0.00	
27	0.00	0.00	0.00	0.00	0.00	56.45	6.95	11.35	5.39	2.44	0.55	0.00	
28	0.00	0.00	0.00	0.00	0.00	49.35	6.56	11.35	5.39	2.35	0.50	0.00	
29	0.00	0.00	0.00	0.00	0.00	48.65	6.30	11.18	5.26	2.35	0.46	0.00	
30	0.00	0.00	0.00	0.00	0.00	38.20	6.17	10.50	5.26	2.26		0.00	
31		0.00		0.00	0.00		6.04		5.13	2.17		0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	1286.86	392.89	268.51	207.76	111.86	35.94	3.33	2307.15 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.00	42.90	12.67	8.95	6.70	3.61	1.24	0.11	6.30 CMS
MAX	0.00	0.00	0.00	0.00	0.00	107.40	25.75	11.69	9.75	4.87	2.08	0.42	107.40 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	6.04	6.69	5.13	2.17	0.46	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.000	111.185	33.946	23.199	17.950	9.665	3.105	0.288	199.338 MCM

MOMENTARY PEAK 112.20 CMS, AT 6.23 M (A.D), AT 18.00 HOURS, ON SEP 21, 1987

RUNOFF YIELD 5.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 97.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

HUAI HAET AT BAN KUT NGONG, SI SA KET (M.123)

LOCATION — LAT. 15°-03'-53" N., LONG. 104°-20'-56" E., ON RIGHT BANK AT THE BRIDGE OF SI SA KET- KANTHARALAK HIGHWAY, AMPHOE MUANG, SI SA KET.

DRAINAGE AREA — 387 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAY DEPARTMENT.

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

ELEVATION — +7.887 M.(A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1983 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1984 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1984 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE BECAUSE OF BACKWATER EFFEFT.

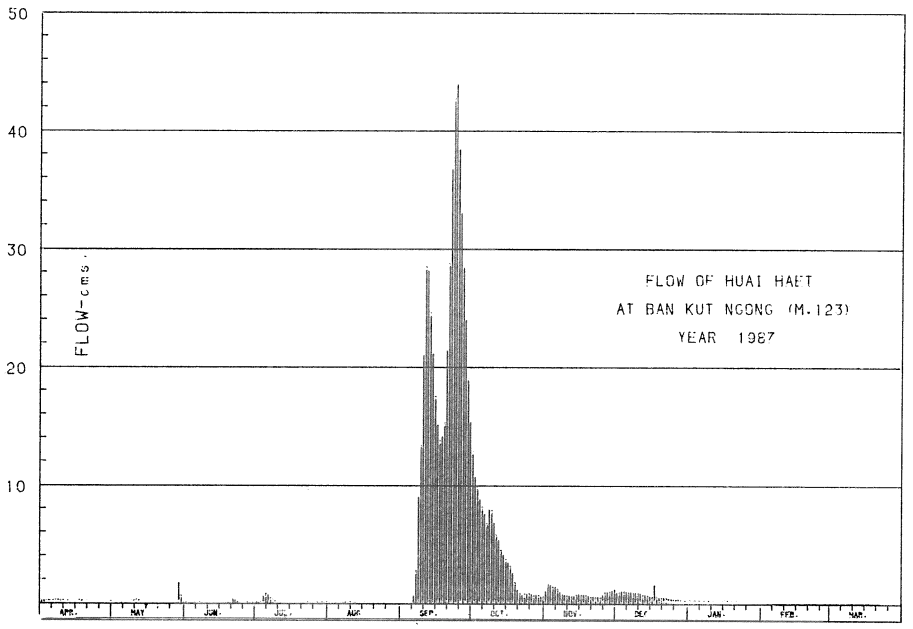
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.71	0.60	0.81	0.64	0.43	2.00	0.52	0.50	0.25	0.25	1.11	
2	0.74	0.70	0.57	0.75	0.59	0.43	1.78	0.63	0.51	0.25	0.32	1.09	
3	0.75	0.70	0.56	0.70	0.58	0.43	1.70	0.61	0.52	0.24	0.44	1.08	
4	0.75	0.71	0.56	0.85	0.56	0.42	1.58	0.59	0.52	0.24	0.59	1.10	
5	0.75	0.69	0.58	0.91	0.53	0.54	1.51	0.59	0.51	0.24	0.68	1.11	
6	0.76	0.70	0.61	0.88	0.53	0.86	1.44	0.56	0.51	0.24	0.81	1.09	
7	0.77	0.71	0.64	0.83	0.58	1.18	1.35	0.51	0.51	0.24	0.90	1.09	
8	0.78	0.71	0.66	0.79	0.61	1.60	1.48	0.46	0.50	0.24	0.98	1.10	
9	0.77	0.75	0.67	0.73	0.63	2.05	1.48	0.44	0.50	0.23	1.02	1.13	
10	0.76	0.75	0.69	0.68	0.67	2.70	1.35	0.43	0.50	0.23	1.06	1.15	
11	0.75	0.79	0.66	0.66	0.67	3.28	1.23	0.42	0.48	0.25	1.10	1.14	
12	0.74	0.76	0.60	0.64	0.58	3.25	1.17	0.41	0.45	0.23	1.12	1.12	
13	0.73	0.73	0.57	0.63	0.52	2.98	1.06	0.41	0.44	0.20	1.13	1.12	
14	0.73	0.71	0.55	0.61	0.53	2.71	1.00	0.45	0.43	0.21	1.16	1.16	
15	0.72	0.70	0.52	0.60	0.54	2.42	0.95	0.46	0.40	0.22	1.20	1.15	
16	0.72	0.69	0.50	0.57	0.70	2.21	0.91	0.45	0.39	0.25	1.25	1.13	
17	0.77	0.67	0.48	0.55	0.48	2.09	0.87	0.44	0.61	0.24	1.20	1.10	
18	0.75	0.67	0.51	0.51	0.46	2.12	0.78	0.44	0.40	0.23	1.17	1.07	
19	0.74	0.68	0.64	0.49	0.43	2.23	0.65	0.41	0.35	0.22	1.15	1.07	
20	0.74	0.69	0.64	0.50	0.41	2.73	0.54	0.39	0.35	0.23	1.16	1.05	
21	0.74	0.69	0.85	0.51	0.40	3.30	0.50	0.38	0.35	0.24	1.17	1.05	
22	0.73	0.69	0.76	0.59	0.45	3.87	0.43	0.37	0.34	0.22	1.16	1.05	
23	0.73	0.71	0.67	0.65	0.49	4.27	0.48	0.37	0.31	0.21	1.15	1.05	
24	0.72	0.71	0.61	0.62	0.47	4.35	0.47	0.36	0.29	0.20	1.16	1.06	
25	0.72	0.68	0.63	0.60	0.54	4.00	0.49	0.44	0.28	0.20	1.15	1.05	
26	0.73	0.68	0.67	0.64	0.54	3.61	0.46	0.51	0.27	0.21	1.13	1.05	
27	0.73	0.67	0.64	0.58	0.55	3.29	0.43	0.51	0.27	0.21	1.12	1.08	
28	0.74	0.77	0.62	0.57	0.55	2.93	0.45	0.52	0.26	0.20	1.16	1.11	
29	0.74	1.06	0.60	0.65	0.55	2.55	0.44	0.53	0.24	0.19	1.15	1.12	
30	0.72	0.87	0.58	0.65	0.51	2.23	0.39	0.55	0.23	0.18		1.10	
31		0.67		0.66	0.45		0.40		0.24	0.18		1.10	
MEAN	0.74	0.72	0.61	0.66	0.54	2.37	0.96	0.47	0.40	0.22	1.00	1.10	
MAX	0.78	1.06	0.85	0.91	0.70	4.35	2.00	0.63	0.61	0.25	1.25	1.16	4.35
MIN	0.72	0.67	0.48	0.49	0.40	0.42	0.39	0.36	0.23	0.18	0.25	1.05	0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.42 M (A.D), AT 5.00 HOURS, ON SEP 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.09 M (A.D)
LEFT BANK ELEVATION 6.68 M (A.D)
RIGHT BANK ELEVATION 6.62 M (A.D), DRAINAGE AREA 387 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.17	0.10	0.39	0.12	0.03	12.90	1.02	0.90	0.30	0.00	0.00	
2	0.23	0.15	0.09	0.25	0.09	0.03	10.70	1.68	0.96	0.30	0.00	0.00	
3	0.25	0.15	0.08	0.15	0.09	0.03	9.90	1.56	1.02	0.28	0.00	0.00	
4	0.25	0.17	0.08	0.58	0.08	0.03	8.82	1.44	1.02	0.28	0.00	0.00	
5	0.25	0.15	0.09	0.85	0.06	0.07	8.19	1.44	0.96	0.28	0.00	0.00	
6	0.27	0.15	0.11	0.71	0.06	0.62	7.56	1.26	0.96	0.28	0.00	0.00	
7	0.29	0.17	0.12	0.48	0.09	2.81	6.80	0.96	0.96	0.28	0.00	0.00	
8	0.31	0.17	0.13	0.33	0.11	9.00	7.92	0.78	0.90	0.28	0.00	0.00	
9	0.29	0.25	0.14	0.21	0.12	13.40	7.92	0.72	0.90	0.26	0.00	0.00	
10	0.27	0.25	0.15	0.14	0.14	21.00	6.80	0.69	0.90	0.26	0.00	0.00	
11	0.25	0.33	0.13	0.13	0.14	28.54	5.84	0.66	0.84	0.30	0.00	0.00	
12	0.23	0.27	0.10	0.12	0.09	28.15	5.36	0.63	0.75	0.26	0.00	0.00	
13	0.21	0.21	0.09	0.12	0.06	24.64	4.52	0.63	0.72	0.20	0.00	0.00	
14	0.21	0.17	0.08	0.11	0.06	21.13	4.10	0.75	0.69	0.22	0.00	0.00	
15	0.19	0.15	0.06	0.10	0.07	17.54	3.75	0.78	0.60	0.24	0.00	0.00	
16	0.19	0.15	0.05	0.09	0.15	15.11	3.47	0.75	0.58	0.30	0.00	0.00	
17	0.29	0.14	0.04	0.08	0.04	13.80	3.19	0.72	1.56	0.28	0.00	0.00	
18	0.25	0.14	0.05	0.05	0.04	14.12	2.58	0.72	0.60	0.26	0.00	0.00	
19	0.23	0.14	0.12	0.05	0.03	15.33	1.80	0.63	0.50	0.24	0.00	0.00	
20	0.23	0.15	0.12	0.05	0.02	21.39	1.14	0.58	0.50	0.26	0.00	0.00	
21	0.23	0.15	0.58	0.05	0.02	28.80	0.90	0.56	0.50	0.28	0.00	0.00	
22	0.21	0.15	0.27	0.09	0.03	36.75	0.69	0.54	0.48	0.24	0.00	0.00	
23	0.21	0.17	0.14	0.13	0.05	42.75	0.84	0.54	0.42	0.22	0.00	0.00	
24	0.19	0.17	0.11	0.11	0.04	43.95	0.81	0.52	0.38	0.20	0.00	0.00	
25	0.19	0.14	0.12	0.10	0.07	38.70	0.87	0.72	0.36	0.20	0.00	0.00	
26	0.21	0.14	0.14	0.12	0.07	33.04	0.78	0.96	0.34	0.22	0.00	0.00	
27	0.21	0.14	0.12	0.09	0.08	28.67	0.69	0.96	0.34	0.22	0.00	0.00	
28	0.23	0.29	0.11	0.09	0.08	23.99	0.75	1.02	0.32	0.20	0.00	0.00	
29	0.23	1.75	0.10	0.13	0.08	19.10	0.72	1.08	0.28	0.18	0.00	0.00	
30	0.19	0.67	0.09	0.13	0.05	15.33	0.58	1.20	0.26	0.16		0.00	
31		0.14		0.13	0.03		0.60		0.28	0.16		0.00	
TOTAL	7.00	7.54	3.71	6.16	2.26	557.85	131.49	26.50	20.78	7.64	0.00	0.00	770.93 CMSDAY
MEAN	0.23	0.24	0.12	0.20	0.07	18.60	4.24	0.88	0.67	0.25	0.00	0.00	2.11 CMS
MAX	0.31	1.75	0.58	0.85	0.15	43.95	12.90	1.68	1.56	0.30	0.00	0.00	43.95 CMS
MIN	0.19	0.14	0.04	0.05	0.02	0.03	0.58	0.52	0.26	0.16	0.00	0.00	0.00 CMS
RUNOFF	0.605	0.651	0.321	0.532	0.195	48.198	11.361	2.290	1.795	0.660	0.000	0.000	66.608 MCM

MOMENTARY PEAK 45.00 CMS, AT 4.42 M (A.D), AT 5.00 HOURS, ON SEP 24, 1987

RUNOFF YIELD 5.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 116.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

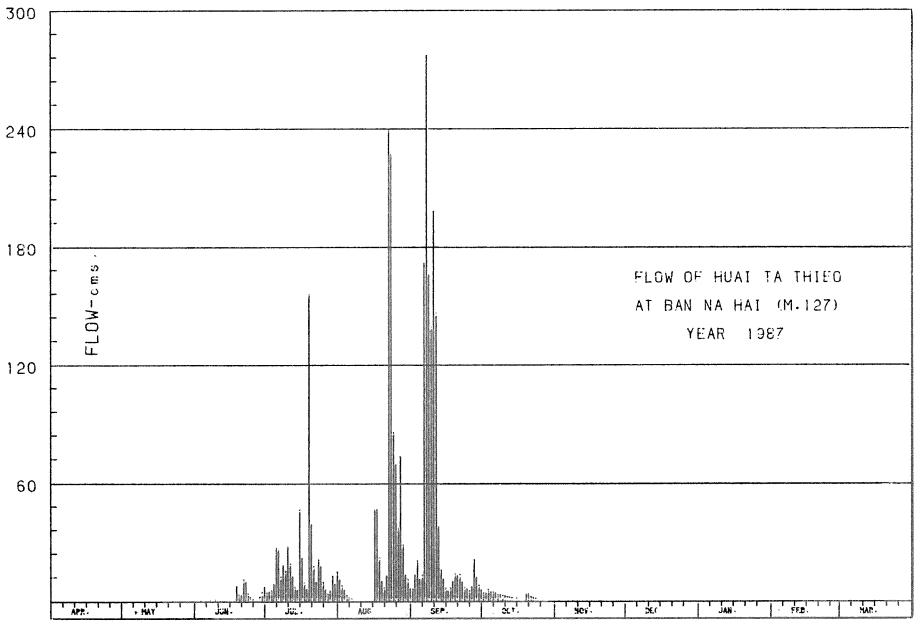
HUAI TA THIEO AT BAN NA HAI, UBON RATCHATHANI (M.127)

LOCATION	LAT. 15°-38'-37" N., LONG. 104°-55'-57" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN NA HAI, TAMBON NA SAMAI, AMPHOE TRAKAN PHUTPHON, UBON RATCHATHANI.
DRAINAGE AREA	414 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK DOWNSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+11.514 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	1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	1.15	1.14	1.85	2.11	1.96	1.85	1.44	1.32	1.28	1.22	1.11	
2	0.98	1.14	1.16	1.87	2.03	2.18	1.83	1.47	1.32	1.28	1.22	1.11	
3	0.97	1.15	1.43	1.92	1.93	2.34	1.95	1.46	1.31	1.28	1.21	1.11	
4	0.97	1.15	1.36	2.05	1.77	2.12	1.87	1.45	1.31	1.28	1.21	1.10	
5	0.96	1.16	1.40	2.48	1.66	2.18	1.87	1.44	1.30	1.28	1.20	1.10	
6	0.96	1.15	1.39	2.45	1.60	4.89	1.84	1.44	1.30	1.27	1.20	1.10	
7	0.95	1.19	1.45	2.16	1.53	6.20	1.78	1.43	1.30	1.27	1.19	1.09	
8	0.95	1.18	1.40	2.29	1.50	4.81	1.77	1.43	1.30	1.26	1.18	1.09	
9	0.99	1.18	1.53	2.23	1.46	4.42	1.75	1.42	1.30	1.26	1.18	1.09	
10	1.06	1.17	1.42	2.49	1.44	5.24	1.74	1.42	1.31	1.26	1.18	1.09	
11	1.05	1.28	1.44	2.31	1.42	4.53	1.70	1.43	1.31	1.25	1.18	1.08	
12	1.05	1.26	1.45	2.16	1.41	2.69	1.68	1.41	1.31	1.25	1.18	1.08	
13	1.04	1.25	1.46	2.01	1.40	2.24	1.66	1.39	1.30	1.25	1.17	1.07	
14	1.03	1.24	1.42	1.93	1.39	2.12	1.64	1.37	1.30	1.25	1.17	1.07	
15	1.02	1.23	1.39	2.85	1.41	1.98	1.62	1.36	1.30	1.25	1.16	1.07	
16	1.01	1.22	1.38	2.37	2.86	1.90	1.60	1.35	1.30	1.25	1.16	1.06	
17	1.00	1.21	1.39	2.07	2.85	1.99	1.57	1.34	1.30	1.25	1.16	1.06	
18	0.99	1.20	2.02	1.95	2.37	2.09	1.58	1.37	1.30	1.25	1.16	1.05	
19	0.99	1.20	1.78	4.67	2.09	2.20	1.91	1.35	1.30	1.24	1.15	1.05	
20	0.98	1.21	1.76	2.71	1.99	2.17	1.81	1.34	1.30	1.24	1.14	1.04	
21	0.97	1.21	2.12	2.28	2.17	2.19	1.70	1.34	1.30	1.24	1.13	1.04	
22	0.99	1.20	2.08	2.08	5.75	2.08	1.67	1.34	1.29	1.24	1.13	1.03	
23	0.98	1.18	1.83	2.35	5.60	2.00	1.62	1.34	1.29	1.24	1.12	1.03	
24	0.97	1.17	1.69	2.28	3.56	1.96	1.57	1.34	1.29	1.23	1.12	1.03	
25	1.10	1.16	1.57	2.08	3.26	1.91	1.54	1.34	1.29	1.23	1.12	1.02	
26	1.20	1.16	1.49	1.94	2.68	2.01	1.51	1.34	1.29	1.23	1.12	1.02	
27	1.19	1.17	1.55	1.81	3.34	2.35	1.49	1.33	1.28	1.23	1.11	1.02	
28	1.18	1.16	1.70	1.91	2.51	2.15	1.48	1.34	1.28	1.23	1.11	1.02	
29	1.17	1.16	1.87	2.17	2.18	2.03	1.47	1.34	1.28	1.22	1.11	1.01	
30	1.16	1.15	2.01	2.05	2.12	1.93	1.46	1.33	1.28	1.22		1.01	
31		1.15		2.22	1.96		1.45		1.28	1.22		1.01	
MEAN	1.03	1.19	1.57	2.26	2.30	2.70	1.68	1.38	1.30	1.25	1.16	1.06	
MAX	1.20	1.28	2.12	4.67	5.75	6.20	1.95	1.47	1.32	1.28	1.22	1.11	6.20
MIN	0.95	1.14	1.14	1.81	1.39	1.90	1.45	1.33	1.28	1.22	1.11	1.01	0.95

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.52 M (A.D), AT 18.00 HOURS, ON AUG 22, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.89 M (A.D)
LEFT BANK ELEVATION 10.17 M (A.D)
RIGHT BANK ELEVATION 10.17 M (A.D), DRAINAGE AREA 414 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	4.38	10.85	6.26	4.38	0.41	0.13	0.08	0.02	0.00	
2	0.00	0.00	0.00	4.69	8.05	13.30	4.07	0.53	0.13	0.08	0.02	0.00	
3	0.00	0.00	0.37	5.52	5.70	20.65	6.08	0.49	0.11	0.08	0.01	0.00	
4	0.00	0.00	0.19	8.75	3.21	11.20	4.69	0.45	0.11	0.08	0.01	0.00	
5	0.00	0.00	0.25	27.30	1.90	13.30	4.69	0.41	0.10	0.08	0.00	0.00	
6	0.00	0.00	0.24	25.88	1.30	171.75	4.22	0.41	0.10	0.07	0.00	0.00	
7	0.00	0.00	0.45	12.60	0.84	279.00	3.34	0.37	0.10	0.07	0.00	0.00	
8	0.00	0.00	0.25	18.27	0.65	165.75	3.21	0.37	0.10	0.06	0.00	0.00	
9	0.00	0.00	0.84	15.42	0.49	139.30	2.95	0.33	0.10	0.06	0.00	0.00	
10	0.00	0.00	0.33	27.78	0.41	198.20	2.82	0.33	0.11	0.06	0.00	0.00	
11	0.00	0.08	0.41	19.22	0.33	146.45	2.30	0.37	0.11	0.05	0.00	0.00	
12	0.00	0.06	0.45	12.60	0.29	37.95	2.10	0.29	0.11	0.05	0.00	0.00	
13	0.00	0.05	0.49	7.35	0.25	15.90	1.90	0.24	0.10	0.05	0.00	0.00	
14	0.00	0.04	0.33	5.70	0.24	11.20	1.70	0.21	0.10	0.05	0.00	0.00	
15	0.00	0.03	0.24	46.75	0.29	6.63	1.50	0.19	0.10	0.05	0.00	0.00	
16	0.00	0.02	0.22	22.07	47.30	5.15	1.30	0.18	0.10	0.05	0.00	0.00	
17	0.00	0.01	0.24	9.45	46.75	6.82	1.11	0.16	0.10	0.05	0.00	0.00	
18	0.00	0.00	7.70	6.08	22.07	10.15	1.17	0.21	0.10	0.05	0.00	0.00	
19	0.00	0.00	3.34	155.90	10.15	14.00	5.34	0.18	0.10	0.04	0.00	0.00	
20	0.00	0.01	3.08	39.05	6.82	12.95	3.75	0.16	0.10	0.04	0.00	0.00	
21	0.00	0.01	11.20	17.80	12.95	13.65	2.30	0.16	0.10	0.04	0.00	0.00	
22	0.00	0.00	9.80	9.80	239.75	9.80	2.00	0.16	0.09	0.04	0.00	0.00	
23	0.00	0.00	4.07	21.12	227.00	7.00	1.50	0.16	0.09	0.04	0.00	0.00	
24	0.00	0.00	2.20	17.80	85.80	6.26	1.11	0.16	0.09	0.03	0.00	0.00	
25	0.00	0.00	1.11	9.80	69.30	5.34	0.91	0.16	0.09	0.03	0.00	0.00	
26	0.00	0.00	0.61	5.89	37.40	7.35	0.71	0.16	0.09	0.03	0.00	0.00	
27	0.00	0.00	0.97	3.75	73.70	21.12	0.61	0.15	0.08	0.03	0.00	0.00	
28	0.00	0.00	2.30	5.34	28.73	12.25	0.57	0.16	0.08	0.03	0.00	0.00	
29	0.00	0.00	4.69	12.95	13.30	8.05	0.53	0.16	0.08	0.02	0.00	0.00	
30	0.00	0.00	7.35	8.75	11.20	5.70	0.49	0.15	0.08	0.02		0.00	
31		0.00		14.95	6.26		0.45		0.08	0.02		0.00	
TOTAL	0.00	0.31	63.72	602.71	973.28	1382.43	73.80	7.87	3.06	1.53	0.06	0.00	3108.77 CMSDAY
MEAN	0.00	0.01	2.12	19.44	31.40	46.08	2.38	0.26	0.10	0.05	0.00	0.00	8.49 CMS
MAX	0.00	0.08	11.20	155.90	239.75	279.00	6.08	0.53	0.13	0.08	0.02	0.00	279.00 CMS
MIN	0.00	0.00	0.00	3.75	0.24	5.15	0.45	0.15	0.08	0.02	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.027	5.505	52.074	84.091	119.442	6.376	0.680	0.264	0.132	0.005	0.000	268.598 MCM

MOMENTARY PEAK 307.80 CMS, AT 6.52 M (A.D), AT 18.00 HOURS, ON AUG 22, 1987
RUNOFF YIELD 20.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 743.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

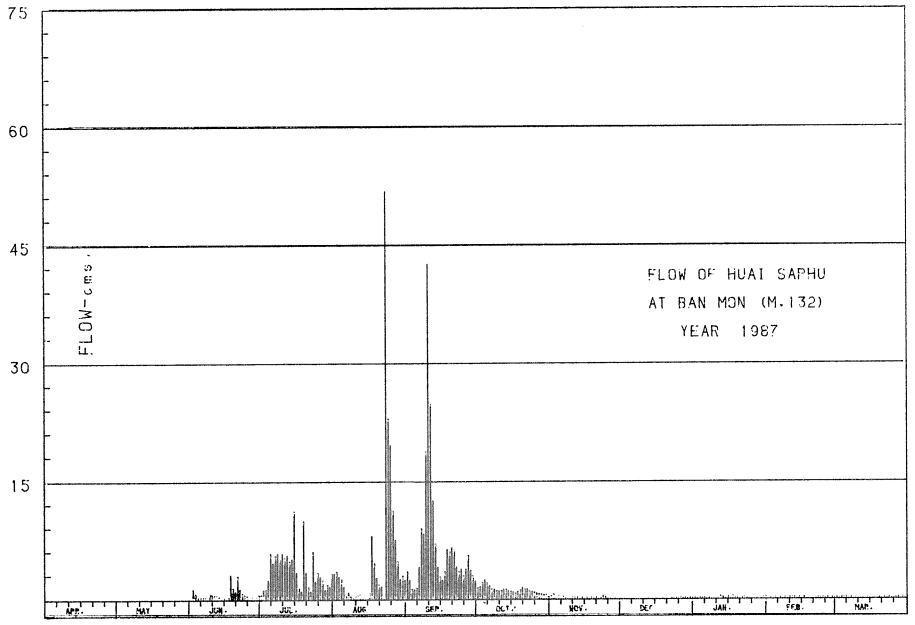
HUAI SAPHU AT BAN MON, UBON RATCHATHANI (M.132)

LOCATION	LAT. 15°-34'-46" N., LONG. 105°-04'-00" E., ON LEFT BANK AT THE BRIDGE ON HIGHWAY AT BAN MON, AMPHOE TRAKAN PHUTPHON, UBON RATCHATHANI.
DRAINAGE AREA	101 SQ.K.M.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.313 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	1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1985 - 1986.
RATED BY FLOAT	-
RATED BY CURRENT METER	1985 - 1986.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. NO RECORD ON APR.1-8,APR.14-MAY19,AUG.22,1987. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE DURING 1985-1986.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.54	0.66	0.94	0.96	0.81	0.63	0.57	0.58	0.59	0.59	
2	*******	*******	0.80	0.78	0.96	0.88	0.82	0.67	0.57	0.58	0.59	0.59	
3	*******	*******	0.69	0.79	0.91	0.80	0.86	0.64	0.57	0.58	0.59	0.60	
4	*******	*******	0.61	0.88	0.89	0.78	0.88	0.63	0.57	0.58	0.59	0.60	
5	*******	*******	0.60	1.07	0.82	0.81	0.86	0.63	0.57	0.58	0.59	0.60	
6	*******	*******	0.60	1.02	0.63	1.00	0.83	0.61	0.57	0.58	0.58	0.60	
7	*******	*******	0.60	1.06	0.71	1.20	0.80	0.60	0.56	0.57	0.58	0.60	
8	*******	*******	0.60	1.07	0.62	1.17	0.79	0.61	0.55	0.57	0.59	0.60	
9	0.49	*******	0.69	1.04	0.62	1.48	0.76	0.60	0.54	0.56	0.60	0.60	
10	0.45	*******	0.67	1.07	0.62	1.93	0.75	0.60	0.53	0.56	0.60	0.60	
11	0.41	*******	0.65	1.05	0.64	1.62	0.76	0.60	0.53	0.57	0.60	0.60	
12	0.40	*******	0.65	1.06	0.67	1.31	0.79	0.59	0.52	0.62	0.60	0.60	
13	0.40	*******	0.62	1.03	0.62	1.12	0.80	0.59	0.51	0.59	0.60	0.60	
14	*******	*******	0.60	1.04	0.63	1.00	0.75	0.59	0.50	0.58	0.60	0.60	
15	*******	*******	0.60	1.27	0.63	0.91	0.74	0.58	0.50	0.61	0.60	0.60	
16	*******	*******	0.58	0.95	0.69	0.88	0.72	0.58	0.57	0.62	0.60	0.60	
17	*******	*******	0.61	0.81	1.16	0.96	0.70	0.58	0.57	0.63	0.59	0.59	
18	*******	*******	0.93	0.74	1.02	1.09	0.73	0.59	0.57	0.62	0.59	0.59	
19	*******	*******	0.81	1.23	0.90	1.08	0.78	0.58	0.57	0.60	0.59	0.59	
20	*******	0.55	0.74	0.95	0.84	1.10	0.81	0.60	0.56	0.58	0.59	0.59	
21	*******	0.52	0.92	0.82	0.82	1.09	0.80	0.58	0.55	0.59	0.59	0.59	
22	*******	0.50	0.80	0.74	*******	1.00	0.80	0.58	0.59	0.61	0.59	0.59	
23	*******	0.48	0.70	1.08	2.07	0.96	0.75	0.63	0.58	0.57	0.59	0.59	
24	*******	0.46	0.66	0.87	1.58	0.98	0.73	0.60	0.58	0.57	0.59	0.59	
25	*******	0.44	0.64	0.95	1.50	0.92	0.72	0.59	0.59	0.57	0.59	0.50	
26	*******	0.43	0.62	0.91	1.27	0.98	0.70	0.57	0.59	0.57	0.59	0.59	
27	*******	0.57	0.62	0.88	1.14	1.06	0.68	0.57	0.58	0.57	0.59	0.59	
28	*******	0.57	0.62	0.78	1.03	0.97	0.67	0.57	0.58	0.57	0.59	0.59	
29	*******	0.56	0.62	0.84	0.89	0.92	0.66	0.57	0.58	0.57	0.59	0.59	
30	*******	0.54	0.66	0.82	0.92	0.87	0.66	0.57	0.58	0.60		0.59	
31		0.53		0.94	0.88		0.61		0.58	0.60		0.59	
MEAN	*******	*******	0.67	0.94	*******	1.06	0.76	0.60	0.56	0.59	0.59	0.59	
MAX	0.49	0.57	0.93	1.27	2.07	1.93	0.88	0.67	0.59	0.63	0.60	0.60	2.07
MIN	*******	*******	0.54	0.66	*******	0.78	0.61	0.57	0.50	0.56	0.58	0.50	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.11 M (A.D), AT 12.00 HOURS, ON AUG 22, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.30 M (A.D)
LEFT BANK ELEVATION 7.07 M (A.D)
RIGHT BANK ELEVATION 6.97 M (A.D), DRAINAGE AREA 101 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.00	0.57	3.26	3.54	1.44	0.42	0.10	0.16	0.21	0.21	
2	*******	*******	1.30	1.20	3.54	2.42	1.58	0.62	0.10	0.16	0.21	0.21	
3	*******	*******	0.73	1.25	2.84	1.30	2.14	0.47	0.10	0.16	0.21	0.26	
4	*******	*******	0.31	2.42	2.56	1.20	2.42	0.42	0.10	0.16	0.21	0.26	
5	*******	*******	0.26	5.82	1.58	1.44	2.14	0.42	0.10	0.16	0.21	0.26	
6	*******	*******	0.26	4.59	0.42	4.10	1.72	0.31	0.10	0.16	0.16	0.26	
7	*******	*******	0.26	5.57	0.83	9.00	1.30	0.26	0.05	0.10	0.16	0.26	
8	*******	*******	0.26	5.82	0.36	8.26	1.25	0.31	0.00	0.10	0.21	0.26	
9	0.00	*******	0.73	5.08	0.36	18.76	1.09	0.26	0.00	0.05	0.26	0.26	
10	0.00	*******	0.62	5.82	0.36	42.59	1.04	0.26	0.00	0.05	0.26	0.26	
11	0.00	*******	0.52	5.32	0.47	24.86	1.09	0.26	0.00	0.10	0.26	0.26	
12	0.00	*******	0.52	5.57	0.62	12.52	1.25	0.21	0.00	0.36	0.26	0.26	
13	0.00	*******	0.36	4.83	0.36	7.04	1.30	0.21	0.00	0.21	0.26	0.26	
14	*******	*******	0.26	5.08	0.42	4.10	1.04	0.21	0.00	0.16	0.26	0.26	
15	*******	*******	0.26	11.24	0.42	2.84	0.99	0.16	0.00	0.31	0.26	0.26	
16	*******	*******	0.16	3.40	0.73	2.42	0.88	0.16	0.10	0.36	0.26	0.26	
17	*******	*******	0.31	1.44	8.02	3.54	0.78	0.16	0.10	0.42	0.21	0.21	
18	*******	*******	3.12	0.99	4.59	6.31	0.94	0.21	0.10	0.36	0.21	0.21	
19	*******	*******	1.44	9.96	2.70	6.06	1.20	0.16	0.10	0.26	0.21	0.21	
20	*******	0.00	0.99	3.40	1.86	6.55	1.44	0.26	0.05	0.16	0.21	0.21	
21	*******	0.00	2.98	1.58	1.58	6.31	1.30	0.16	0.00	0.21	0.21	0.21	
22	*******	0.00	1.30	0.99	*******	4.10	1.30	0.16	0.21	0.31	0.21	0.21	
23	*******	0.00	0.78	6.06	51.83	3.54	1.04	0.42	0.16	0.10	0.21	0.21	
24	*******	0.00	0.57	2.28	22.96	3.82	0.94	0.26	0.16	0.10	0.21	0.21	
25	*******	0.00	0.47	3.40	19.60	2.98	0.88	0.21	0.21	0.10	0.21	0.00	
26	*******	0.00	0.36	2.84	11.24	3.82	0.78	0.10	0.21	0.10	0.21	0.21	
27	*******	0.10	0.36	2.42	7.53	5.57	0.68	0.10	0.16	0.10	0.21	0.21	
28	*******	0.10	0.36	1.20	4.83	3.68	0.62	0.10	0.16	0.10	0.21	0.21	
29	*******	0.05	0.36	1.86	2.56	2.98	0.57	0.10	0.16	0.10	0.21	0.21	
30	*******	0.00	0.57	1.58	2.98	2.28	0.57	0.10	0.16	0.26		0.21	
31		0.00		3.26	2.42		0.31		0.16	0.26		0.21	
TOTAL	*******	*******	20.78	116.84	*******	207.93	36.02	7.46	2.85	5.70	6.39	7.00	******** CMSDAY
MEAN	*******	*******	0.69	3.77	*******	6.93	1.16	0.25	0.09	0.18	0.22	0.23	******** CMS
MAX	0.00	0.10	3.12	11.24	51.83	42.59	2.42	0.62	0.21	0.42	0.26	0.26	51.83 CMS
MIN	*******	*******	0.00	0.57	*******	1.20	0.31	0.10	0.00	0.05	0.16	0.00	******** CMS
RUNOFF	*******	*******	1.795	10.095	*******	17.965	3.112	0.645	0.246	0.492	0.552	0.605	******** MCM

MOMENTARY PEAK ******** CMS, AT 3.11 M (A.D), AT 12.00 HOURS, ON AUG 22, 1987

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

WATER YEAR 1987

MUN RIVER BASIN

LAM CHIANG KRAI AT BAN SAMRONG, NAKHON RATCHASIMA (M.136)

LOCATION — LAT. 15°-08'-32" N., LONG. 102°-00'-17" E., ON RIGHT BANK AT THE BRIDGE OF DAN KHUN THOT-NON THAI ROAD, GUIDEPOST 34.800, AMPHOE DAN KHUN THOT, NAKHON RATCHASIMA.

DRAINAGE AREA — 1,910 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT.

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

ELEVATION — +5.591 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 — 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 - 1988.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 - 1988.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STREAM GAGING BEGAN ON JUNE1,1987. STAGE-DISCHARGE RELATION DEFINED BY 7 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

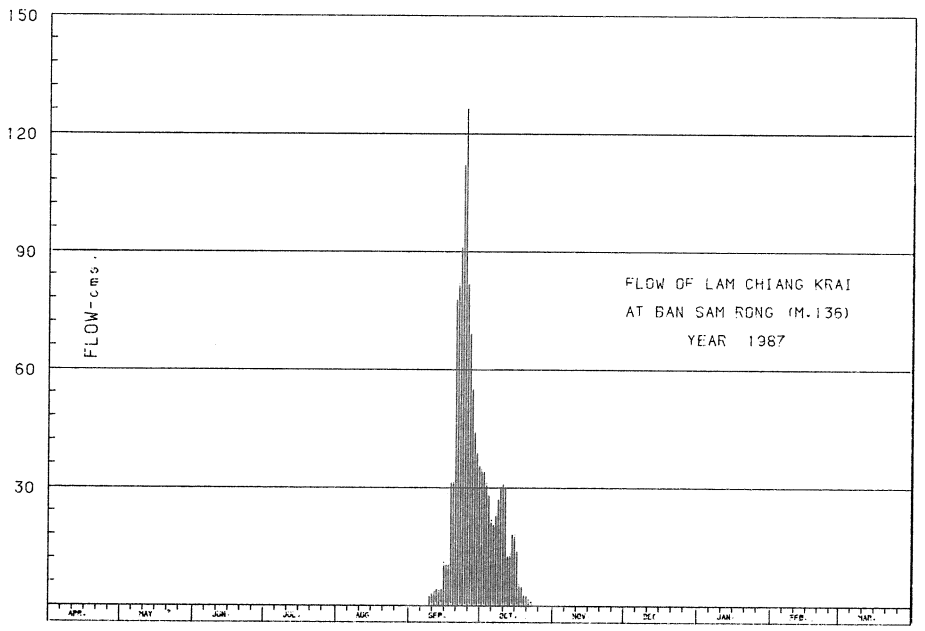
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.69	0.37	0.06	0.06	2.58	1.32	1.09	1.18	0.92	0.85	
2	*******	*******	0.69	0.35	0.06	0.06	2.56	1.31	1.06	1.17	0.92	0.85	
3	*******	*******	0.69	0.32	0.06	0.06	2.48	1.30	1.05	1.14	0.91	0.85	
4	*******	*******	0.69	0.20	0.05	0.06	2.39	1.29	1.04	1.11	0.91	0.85	
5	*******	*******	0.70	0.20	0.05	0.19	2.21	1.27	1.03	1.10	0.91	0.84	
6	*******	*******	0.69	0.19	0.05	0.39	2.17	1.26	1.02	1.09	0.91	0.83	
7	*******	*******	0.69	0.17	0.05	0.80	2.26	1.21	1.01	1.09	0.91	0.82	
8	*******	*******	0.88	0.15	0.05	1.20	2.36	1.20	1.05	1.08	0.91	0.82	
9	*******	*******	0.89	0.14	0.05	1.60	2.46	1.15	1.08	1.06	0.91	0.82	
10	*******	*******	0.89	0.12	0.05	1.61	2.47	1.11	1.08	1.04	0.94	0.81	
11	*******	*******	0.88	0.10	0.05	1.63	2.46	1.08	1.08	1.04	0.94	0.78	
12	*******	*******	0.87	0.10	0.05	1.65	1.93	1.07	1.08	1.03	0.93	0.78	
13	*******	*******	0.83	0.08	0.10	1.66	1.95	1.06	1.08	1.03	0.93	0.77	
14	*******	*******	0.80	0.08	0.10	1.65	2.10	1.09	1.02	1.03	0.93	0.77	
15	*******	*******	0.79	0.08	0.24	1.88	2.10	1.10	1.08	1.02	0.93	0.76	
16	*******	*******	0.78	0.08	0.22	1.86	1.97	1.10	1.21	1.02	0.92	0.75	
17	*******	*******	0.76	0.07	0.11	1.86	1.70	1.18	1.29	1.01	0.92	0.75	
18	*******	*******	0.75	0.07	0.10	2.48	1.67	1.18	1.32	1.01	0.91	0.75	
19	*******	*******	0.73	0.07	0.10	2.50	1.62	1.18	1.36	1.00	0.91	0.75	
20	*******	*******	0.72	0.07	0.19	3.62	1.59	1.18	1.38	1.00	0.91	0.74	
21	*******	*******	0.71	0.07	0.19	3.69	1.56	1.18	1.39	0.99	0.91	0.72	
22	*******	*******	0.69	0.05	0.17	3.82	1.54	1.18	1.39	0.98	0.91	0.70	
23	*******	*******	0.65	0.05	0.15	4.05	1.49	1.18	1.38	0.97	0.89	0.70	
24	*******	*******	0.61	0.05	0.15	4.17	1.49	1.18	1.36	0.96	0.88	0.70	
25	*******	*******	0.59	0.05	0.11	3.70	1.47	1.18	1.33	0.96	0.87	0.69	
26	*******	*******	0.58	0.05	0.09	3.45	1.39	1.18	1.31	0.95	0.86	0.69	
27	*******	*******	0.55	0.05	0.12	3.13	1.39	1.17	1.30	0.95	0.86	0.69	
28	*******	*******	0.51	0.04	0.10	2.83	1.38	1.17	1.27	0.95	0.86	0.68	
29	*******	*******	0.43	0.03	0.10	2.71	1.38	1.10	1.24	0.95	0.86	0.67	
30	*******	*******	0.38	0.07	0.06	2.60	1.37	1.10	1.21	0.94		0.67	
31		*******		0.06	0.06		1.35		1.19	0.93		0.66	
MEAN	*******	*******	0.70	0.12	0.10	2.03	1.90	1.18	1.19	1.03	0.91	0.76	
MAX	*******	*******	0.89	0.37	0.24	4.17	2.58	1.32	1.39	1.18	0.94	0.85	4.17
MIN	*******	*******	0.38	0.03	0.05	0.06	1.35	1.06	1.01	0.93	0.86	0.66	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.18 M (A.D), AT 6.00 HOURS, ON SEP 24, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.83 M (A.D)

LEFT BANK ELEVATION — 5.60 M (A.D)

RIGHT BANK ELEVATION — 5.62 M (A.D), DRAINAGE AREA 1910 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.00	0.00	0.00	0.00	34.70	0.00	0.00	0.00	0.00	0.00	
2	*******	*******	0.00	0.00	0.00	0.00	34.00	0.00	0.00	0.00	0.00	0.00	
3	*******	*******	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	0.00	
4	*******	*******	0.00	0.00	0.00	0.00	28.05	0.00	0.00	0.00	0.00	0.00	
5	*******	*******	0.00	0.00	0.00	0.00	21.84	0.00	0.00	0.00	0.00	0.00	
6	*******	*******	0.00	0.00	0.00	0.00	20.48	0.00	0.00	0.00	0.00	0.00	
7	*******	*******	0.00	0.00	0.00	0.00	23.54	0.00	0.00	0.00	0.00	0.00	
8	*******	*******	0.00	0.00	0.00	0.00	27.00	0.00	0.00	0.00	0.00	0.00	
9	*******	*******	0.00	0.00	0.00	2.70	30.50	0.00	0.00	0.00	0.00	0.00	
10	*******	*******	0.00	0.00	0.00	2.99	30.85	0.00	0.00	0.00	0.00	0.00	
11	*******	*******	0.00	0.00	0.00	3.57	30.50	0.00	0.00	0.00	0.00	0.00	
12	*******	*******	0.00	0.00	0.00	4.15	12.56	0.00	0.00	0.00	0.00	0.00	
13	*******	*******	0.00	0.00	0.00	4.44	13.20	0.00	0.00	0.00	0.00	0.00	
14	*******	*******	0.00	0.00	0.00	4.15	18.10	0.00	0.00	0.00	0.00	0.00	
15	*******	*******	0.00	0.00	0.00	11.00	18.10	0.00	0.00	0.00	0.00	0.00	
16	*******	*******	0.00	0.00	0.00	10.40	13.84	0.00	0.00	0.00	0.00	0.00	
17	*******	*******	0.00	0.00	0.00	10.40	5.60	0.00	0.00	0.00	0.00	0.00	
18	*******	*******	0.00	0.00	0.00	31.20	4.73	0.00	0.00	0.00	0.00	0.00	
19	*******	*******	0.00	0.00	0.00	31.90	3.28	0.00	0.00	0.00	0.00	0.00	
20	*******	*******	0.00	0.00	0.00	77.68	2.43	0.00	0.00	0.00	0.00	0.00	
21	*******	*******	0.00	0.00	0.00	81.81	1.62	0.00	0.00	0.00	0.00	0.00	
22	*******	*******	0.00	0.00	0.00	91.02	1.08	0.00	0.00	0.00	0.00	0.00	
23	*******	*******	0.00	0.00	0.00	112.50	0.00	0.00	0.00	0.00	0.00	0.00	
24	*******	*******	0.00	0.00	0.00	126.40	0.00	0.00	0.00	0.00	0.00	0.00	
25	*******	*******	0.00	0.00	0.00	82.40	0.00	0.00	0.00	0.00	0.00	0.00	
26	*******	*******	0.00	0.00	0.00	69.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	*******	*******	0.00	0.00	0.00	55.57	0.00	0.00	0.00	0.00	0.00	0.00	
28	*******	*******	0.00	0.00	0.00	43.94	0.00	0.00	0.00	0.00	0.00	0.00	
29	*******	*******	0.00	0.00	0.00	39.38	0.00	0.00	0.00	0.00	0.00	0.00	
30	*******	*******	0.00	0.00	0.00	35.40	0.00	0.00	0.00	0.00		0.00	
31		*******		0.00	0.00		0.00		0.00	0.00		0.00	
TOTAL	*******	*******	0.00	0.00	0.00	932.00	407.20	0.00	0.00	0.00	0.00	0.00	******** CMSDAY
MEAN	*******	*******	0.00	0.00	0.00	31.07	13.14	0.00	0.00	0.00	0.00	0.00	******** CMS
MAX	*******	*******	0.00	0.00	0.00	126.40	34.70	0.00	0.00	0.00	0.00	0.00	126.40 CMS
MIN	*******	*******	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	******** CMS
RUNOFF	*******	*******	0.000	0.000	0.000	80.525	35.182	0.000	0.000	0.000	0.000	0.000	******** MCM

MOMENTARY PEAK 127.60 CMS, AT 4.18 M (A.D), AT 6.00 HOURS, ON SEP 24, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 66.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

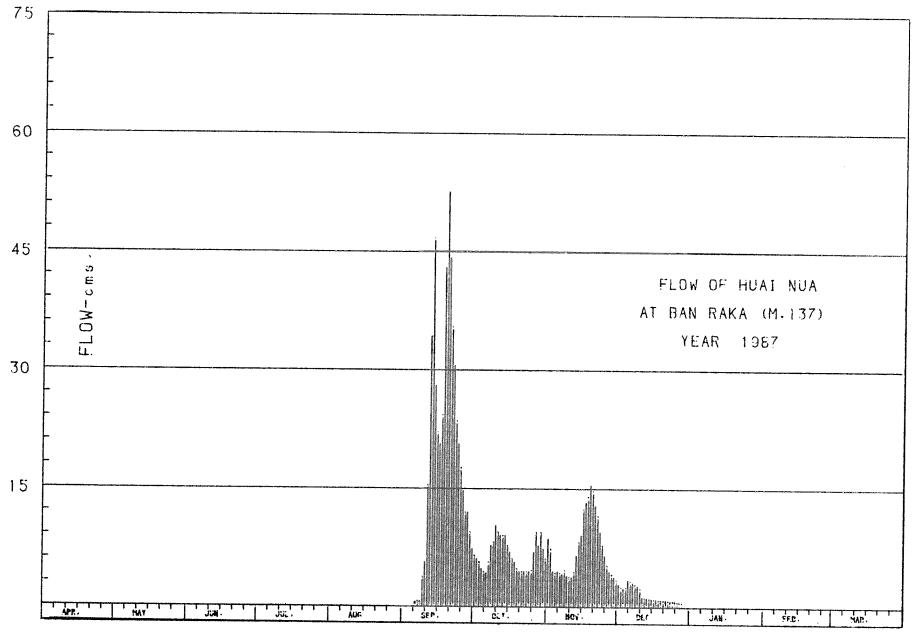
HUAI NUA AT BAN RAKA, SI SA KET (M.137)

LOCATION	LAT. 14°-47'-31" N., LONG. 104°-10'-40" E., ON RIGHT BANK AT THE BRIDGE ON ROAD, BAN RAKA, TAMBON KHOK PHET, AMPHOE KHU KHAN, SI SA KET.
DRAINAGE AREA	397 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK UPSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.625 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	0.50	0.89	0.85	1.44	1.49	1.29	1.00	0.69	0.43	
2	*******	*******	*******	0.49	0.89	0.84	1.43	1.46	1.27	0.99	0.69	0.41	
3	*******	*******	*******	0.50	0.87	0.84	1.42	1.38	1.26	0.97	0.68	0.39	
4	*******	*******	*******	0.55	0.86	0.87	1.40	1.37	1.27	0.96	0.68	0.37	
5	*******	*******	*******	0.59	0.86	0.91	1.38	1.38	1.32	0.95	0.68	0.35	
6	*******	*******	*******	0.89	0.86	1.07	1.37	1.37	1.31	0.94	0.67	0.33	
7	*******	*******	*******	0.90	0.86	1.10	1.42	1.36	1.30	0.93	0.67	0.30	
8	*******	*******	*******	0.89	0.86	1.09	1.47	1.39	1.29	0.92	0.66	0.28	
9	*******	*******	*******	0.89	0.85	1.34	1.48	1.35	1.28	0.91	0.66	0.26	
10	*******	*******	*******	0.90	0.85	1.42	1.53	1.34	1.26	0.90	0.65	0.24	
11	*******	*******	*******	0.89	0.84	1.63	1.51	1.34	1.19	0.89	0.65	0.22	
12	*******	*******	*******	0.88	0.84	1.85	1.50	1.38	1.18	0.88	0.64	0.20	
13	*******	*******	*******	0.88	0.84	1.95	1.50	1.44	1.17	0.87	0.63	0.18	
14	*******	*******	0.12	0.87	0.84	1.80	1.50	1.48	1.16	0.86	0.63	0.16	
15	*******	*******	0.10	0.86	0.84	1.72	1.47	1.50	1.15	0.85	0.62	0.14	
16	*******	*******	0.08	0.86	0.86	1.70	1.45	1.58	1.14	0.84	0.61	0.12	
17	*******	*******	0.20	0.85	0.85	1.75	1.43	1.60	1.14	0.83	0.60	0.10	
18	*******	*******	0.19	0.85	0.85	1.92	1.42	1.61	1.13	0.81	0.60	0.08	
19	*******	*******	0.17	0.85	0.85	2.00	1.40	1.63	1.13	0.80	0.59	0.06	
20	*******	*******	0.15	0.85	0.84	1.93	1.38	1.62	1.12	0.79	0.58	0.04	
21	*******	*******	0.37	0.84	0.84	1.86	1.38	1.59	1.12	0.78	0.57	0.02	
22	*******	*******	0.39	0.84	0.88	1.82	1.38	1.56	1.11	0.77	0.54	0.00	
23	*******	*******	0.38	0.84	0.90	1.74	1.38	1.51	1.10	0.76	0.54	0.00	
24	*******	*******	0.38	0.85	0.89	1.70	1.38	1.47	1.10	0.75	0.53	0.00	
25	*******	*******	0.37	0.85	0.89	1.66	1.39	1.44	1.09	0.74	0.52	0.00	
26	*******	*******	0.35	0.84	0.88	1.62	1.45	1.41	1.08	0.73	0.51	0.00	
27	*******	*******	0.33	0.83	0.87	1.57	1.51	1.38	1.07	0.72	0.49	0.00	
28	*******	*******	0.32	0.83	0.86	1.57	1.47	1.36	1.06	0.71	0.47	0.00	
29	*******	*******	0.31	0.85	0.85	1.51	1.51	1.34	1.04	0.70	0.45	0.00	
30	*******	*******	0.30	0.89	0.85	1.46	1.46	1.32	1.03	0.69		0.00	
31		*******		0.89	0.85		1.43		1.01	0.69		0.00	
MEAN	*******	*******	*******	0.81	0.86	1.50	1.44	1.45	1.17	0.84	0.60	0.15	
MAX	*******	*******	0.39	0.90	0.90	2.00	1.53	1.63	1.32	1.00	0.69	0.43	2.00
MIN	*******	*******	*******	0.49	0.84	0.84	1.37	1.32	1.01	0.69	0.45	0.00	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.01 M (A.D), AT 15.00 HOURS, ON SEP 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.40 M (A.D)
LEFT BANK ELEVATION 2.15 M (A.D)
RIGHT BANK ELEVATION 1.96 M (A.D), DRAINAGE AREA 397 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	0.000	0.090	0.050	6.480	8.580	2.820	0.200	0.000	0.000	
2	*******	*******	*******	0.000	0.090	0.040	6.060	7.320	2.460	0.190	0.000	0.000	
3	*******	*******	*******	0.000	0.070	0.040	5.640	4.440	2.280	0.170	0.000	0.000	
4	*******	*******	*******	0.000	0.060	0.070	4.800	4.260	2.460	0.160	0.000	0.000	
5	*******	*******	*******	0.000	0.060	0.110	4.440	4.440	3.360	0.150	0.000	0.000	
6	*******	*******	*******	0.090	0.060	0.550	4.260	4.260	3.180	0.140	0.000	0.000	
7	*******	*******	*******	0.100	0.060	0.700	5.640	4.080	3.000	0.130	0.000	0.000	
8	*******	*******	*******	0.090	0.060	0.650	7.740	4.620	2.820	0.120	0.000	0.000	
9	*******	*******	*******	0.090	0.050	3.720	8.160	3.900	2.640	0.110	0.000	0.000	
10	*******	*******	*******	0.100	0.050	5.640	10.260	3.720	2.280	0.100	0.000	0.000	
11	*******	*******	*******	0.090	0.040	15.420	9.420	3.720	1.150	0.090	0.000	0.000	
12	*******	*******	*******	0.080	0.040	34.250	9.000	4.440	1.100	0.080	0.000	0.000	
13	*******	*******	*******	0.080	0.040	46.750	9.000	6.480	1.050	0.070	0.000	0.000	
14	*******	*******	0.000	0.070	0.040	28.000	9.000	8.160	1.000	0.060	0.000	0.000	
15	*******	*******	0.000	0.060	0.040	22.080	7.740	9.000	0.950	0.050	0.000	0.000	
16	*******	*******	0.000	0.060	0.060	20.600	6.900	12.360	0.900	0.040	0.000	0.000	
17	*******	*******	0.000	0.050	0.050	24.300	6.060	13.200	0.900	0.030	0.000	0.000	
18	*******	*******	0.000	0.050	0.050	43.000	5.640	13.940	0.850	0.010	0.000	0.000	
19	*******	*******	0.000	0.050	0.050	53.000	4.800	15.420	0.850	0.000	0.000	0.000	
20	*******	*******	0.000	0.050	0.040	44.250	4.440	14.680	0.800	0.000	0.000	0.000	
21	*******	*******	0.000	0.040	0.040	35.500	4.440	12.780	0.800	0.000	0.000	0.000	
22	*******	*******	0.000	0.040	0.080	30.500	4.440	11.520	0.750	0.000	0.000	0.000	
23	*******	*******	0.000	0.040	0.100	23.560	4.440	9.420	0.700	0.000	0.000	0.000	
24	*******	*******	0.000	0.050	0.090	20.600	4.440	7.740	0.700	0.000	0.000	0.000	
25	*******	*******	0.000	0.050	0.090	17.640	4.620	6.480	0.650	0.000	0.000	0.000	
26	*******	*******	0.000	0.040	0.080	14.680	6.900	5.220	0.600	0.000	0.000	0.000	
27	*******	*******	0.000	0.030	0.070	11.940	9.420	4.440	0.550	0.000	0.000	0.000	
28	*******	*******	0.000	0.030	0.060	11.940	7.740	4.080	0.500	0.000	0.000	0.000	
29	*******	*******	0.000	0.050	0.050	9.420	9.420	3.720	0.400	0.000	0.000	0.000	
30	*******	*******	0.000	0.090	0.050	7.320	7.320	3.360	0.350	0.000		0.000	
31		*******		0.090	0.050		6.060		0.250	0.000		0.000	
TOTAL	*******	*******	*******	1.660	1.860	526.320	204.720	219.780	43.100	1.900	0.000	0.000	******** CMSDAY
MEAN	*******	*******	*******	0.054	0.060	17.544	6.604	7.326	1.390	0.061	0.000	0.000	******** CMS
MAX	*******	*******	0.000	0.100	0.100	53.000	10.260	15.420	3.360	0.200	0.000	0.000	53.000 CMS
MIN	*******	*******	*******	0.000	0.040	0.040	4.260	3.360	0.250	0.000	0.000	0.000	******** CMS
RUNOFF	*******	*******	*******	0.143	0.161	45.474	17.688	18.989	3.724	0.164	0.000	0.000	******** MCM

MOMENTARY PEAK 54.25 CMS, AT 2.01 M (A.D), AT 15.00 HOURS, ON SEP 19, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 136.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

HUAI SAMRAN AT BAN TAPANG, SI SA KET (M.138)

LOCATION — LAT. 14°-46'-54" N., LONG. 104°-07'-32" E., ON RIGHT BANK AT THE BRIDGE ON ROAD, BAN TAPANG, TAMBON KHOK PHET, AMPHOE KHU KHAN, SI SA KET.

DRAINAGE AREA — 1,038 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT.

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

ELEVATION — +5.108 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 — 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +2.10 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STREAM GAGING BEGAN ON MAY16,1987. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

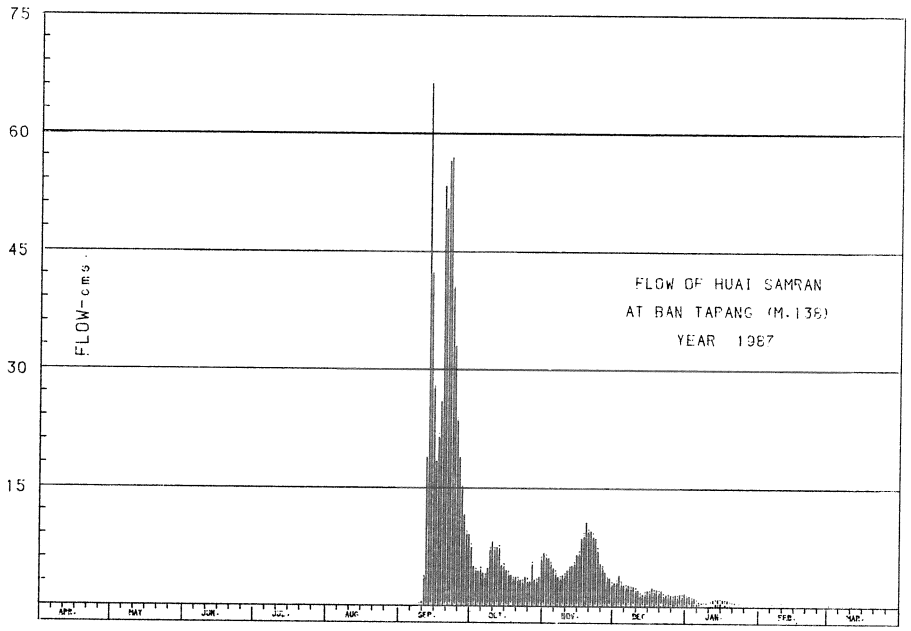
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.76	0.84	1.00	0.99	2.12	2.07	1.82	1.60	1.19	1.19	
2	*******	*******	0.75	0.84	1.00	0.99	1.99	2.06	1.85	1.57	1.19	1.19	
3	*******	*******	0.74	0.86	1.01	0.99	1.97	2.04	1.90	1.55	1.19	1.19	
4	*******	*******	0.73	0.86	1.01	1.00	1.94	2.02	1.84	1.52	1.21	1.19	
5	*******	*******	0.74	0.87	1.00	1.01	1.98	1.97	1.79	1.47	1.24	1.19	
6	*******	*******	0.73	0.87	1.00	1.02	1.92	1.95	1.80	1.41	1.26	1.19	
7	*******	*******	0.75	0.86	1.00	1.10	1.91	1.88	1.79	1.36	1.27	1.18	
8	*******	*******	0.79	0.96	1.00	1.16	1.97	1.89	1.77	1.37	1.28	1.18	
9	*******	*******	0.86	0.98	0.98	1.26	2.10	1.90	1.76	1.35	1.30	1.14	
10	*******	*******	0.86	0.97	0.98	1.39	2.13	1.92	1.74	1.35	1.33	1.15	
11	*******	*******	0.85	0.97	0.98	1.89	2.10	1.95	1.69	1.42	1.30	1.12	
12	*******	*******	0.84	0.96	0.98	2.40	2.10	1.99	1.64	1.46	1.29	1.10	
13	*******	*******	0.85	0.95	1.00	2.77	2.11	2.00	1.61	1.48	1.25	1.12	
14	*******	*******	0.85	0.95	1.02	2.62	2.00	2.02	1.67	1.48	1.24	1.11	
15	*******	*******	0.85	0.94	1.02	2.49	2.01	2.06	1.68	1.49	1.23	1.10	
16	*******	0.85	0.84	0.93	1.03	2.39	1.95	2.08	1.69	1.47	1.21	1.09	
17	*******	0.84	0.85	0.93	1.03	2.43	1.94	2.15	1.74	1.46	1.20	1.09	
18	*******	0.83	0.84	0.92	1.03	2.47	1.90	2.18	1.71	1.45	1.19	1.07	
19	*******	0.82	0.84	0.90	1.02	2.69	1.88	2.22	1.70	1.42	1.19	1.06	
20	*******	0.81	0.83	0.90	1.02	2.67	1.88	2.20	1.69	1.41	1.19	1.06	
21	*******	0.81	0.88	0.88	1.02	2.71	1.88	2.19	1.68	1.37	1.18	1.04	
22	*******	0.80	0.88	0.87	1.01	2.71	1.85	2.18	1.63	1.35	1.18	1.04	
23	*******	0.79	0.87	0.87	1.01	2.61	1.85	2.15	1.60	1.32	1.16	1.05	
24	*******	0.79	0.87	0.88	1.01	2.54	1.88	2.10	1.62	1.30	1.14	1.03	
25	*******	0.78	0.86	0.84	1.00	2.45	1.87	2.01	1.59	1.27	1.14	1.01	
26	*******	0.78	0.85	0.84	1.00	2.40	1.83	2.00	1.58	1.24	1.16	1.01	
27	*******	0.77	0.84	0.83	1.00	2.32	2.02	1.93	1.60	1.23	1.18	0.99	
28	*******	0.76	0.83	0.90	0.99	2.24	1.85	1.88	1.60	1.23	1.18	0.99	
29	*******	0.77	0.83	0.90	0.99	2.19	1.86	1.87	1.61	1.23	1.19	0.99	
30	*******	0.78	0.82	1.00	1.00	2.17	1.88	1.83	1.62	1.21		0.99	
31		0.77		1.00	1.00		2.05		1.63	1.20		0.99	
MEAN	*******	*******	0.82	0.91	1.00	2.00	1.96	2.02	1.70	1.39	1.22	1.09	
MAX	*******	0.85	0.88	1.00	1.03	2.77	2.13	2.22	1.90	1.60	1.33	1.19	2.77
MIN	*******	*******	0.73	0.83	0.98	0.99	1.83	1.83	1.58	1.20	1.14	0.99	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.78 M (A.D), AT 18.00 HOURS, ON SEP 13, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.86 M (A.D)

LEFT BANK ELEVATION — 2.09 M (A.D)

RIGHT BANK ELEVATION — 2.27 M (A.D), DRAINAGE AREA 1038 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.00	0.00	0.00	0.00	7.86	6.71	2.94	1.40	0.19	0.19	
2	*******	*******	0.00	0.00	0.00	0.00	4.98	6.48	3.30	1.27	0.19	0.19	
3	*******	*******	0.00	0.00	0.01	0.00	4.74	6.02	3.90	1.17	0.19	0.19	
4	*******	*******	0.00	0.00	0.01	0.00	4.38	5.56	3.18	1.04	0.21	0.19	
5	*******	*******	0.00	0.00	0.00	0.01	4.86	4.74	2.64	0.82	0.26	0.19	
6	*******	*******	0.00	0.00	0.00	0.02	4.14	4.50	2.70	0.54	0.29	0.19	
7	*******	*******	0.00	0.00	0.00	0.10	4.02	3.66	2.64	0.44	0.30	0.18	
8	*******	*******	0.00	0.00	0.00	0.16	4.74	3.78	2.51	0.46	0.32	0.18	
9	*******	*******	0.00	0.00	0.00	0.29	7.40	3.90	2.44	0.43	0.35	0.14	
10	*******	*******	0.00	0.00	0.00	0.49	8.09	4.14	2.31	0.43	0.40	0.15	
11	*******	*******	0.00	0.00	0.00	3.78	7.40	4.50	1.99	0.59	0.35	0.12	
12	*******	*******	0.00	0.00	0.00	18.80	7.40	4.98	1.66	0.77	0.33	0.10	
13	*******	*******	0.00	0.00	0.00	66.63	7.63	5.10	1.46	0.86	0.27	0.12	
14	*******	*******	0.00	0.00	0.02	42.25	5.10	5.56	1.85	0.86	0.26	0.11	
15	*******	*******	0.00	0.00	0.02	27.89	5.33	6.48	1.92	0.91	0.24	0.10	
16	*******	0.00	0.00	0.00	0.03	18.34	4.50	6.94	1.99	0.82	0.21	0.09	
17	*******	0.00	0.00	0.00	0.03	21.83	4.38	8.55	2.31	0.77	0.20	0.09	
18	*******	0.00	0.00	0.00	0.03	25.87	3.90	9.24	2.12	0.73	0.19	0.07	
19	*******	0.00	0.00	0.00	0.02	53.63	3.66	10.61	2.05	0.59	0.19	0.06	
20	*******	0.00	0.00	0.00	0.02	50.38	3.66	9.70	1.99	0.54	0.19	0.06	
21	*******	0.00	0.00	0.00	0.02	56.88	3.66	9.47	1.92	0.46	0.18	0.04	
22	*******	0.00	0.00	0.00	0.01	56.88	3.30	9.24	1.59	0.43	0.18	0.04	
23	*******	0.00	0.00	0.00	0.01	40.62	3.30	8.55	1.40	0.38	0.16	0.05	
24	*******	0.00	0.00	0.00	0.01	32.94	3.66	7.40	1.53	0.35	0.14	0.03	
25	*******	0.00	0.00	0.00	0.00	23.85	3.54	5.33	1.36	0.30	0.14	0.01	
26	*******	0.00	0.00	0.00	0.00	18.80	3.06	5.10	1.31	0.26	0.16	0.01	
27	*******	0.00	0.00	0.00	0.00	15.16	5.56	4.26	1.40	0.24	0.18	0.00	
28	*******	0.00	0.00	0.00	0.00	11.52	3.30	3.66	1.40	0.24	0.18	0.00	
29	*******	0.00	0.00	0.00	0.00	9.47	3.42	3.54	1.46	0.24	0.19	0.00	
30	*******	0.00	0.00	0.00	0.00	9.01	3.66	3.06	1.53	0.21		0.00	
31		0.00		0.00	0.00		6.25		1.59	0.20		0.00	
TOTAL	*******	*******	0.00	0.00	0.24	605.60	150.88	180.76	64.39	18.75	6.64	2.89	******** CMSDAY
MEAN	*******	*******	0.00	0.00	0.01	20.19	4.87	6.03	2.08	0.60	0.23	0.09	******** CMS
MAX	*******	0.00	0.00	0.00	0.03	66.63	8.09	10.61	3.90	1.40	0.40	0.19	66.63 CMS
MIN	*******	*******	0.00	0.00	0.00	0.00	3.06	3.06	1.31	0.20	0.14	0.00	******** CMS
RUNOFF	*******	*******	0.000	0.000	0.021	52.324	13.036	15.618	5.563	1.620	0.574	0.250	******** MCM

MOMENTARY PEAK 68.25 CMS, AT 2.78 M (A.D), AT 18.00 HOURS, ON SEP 13, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 65.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

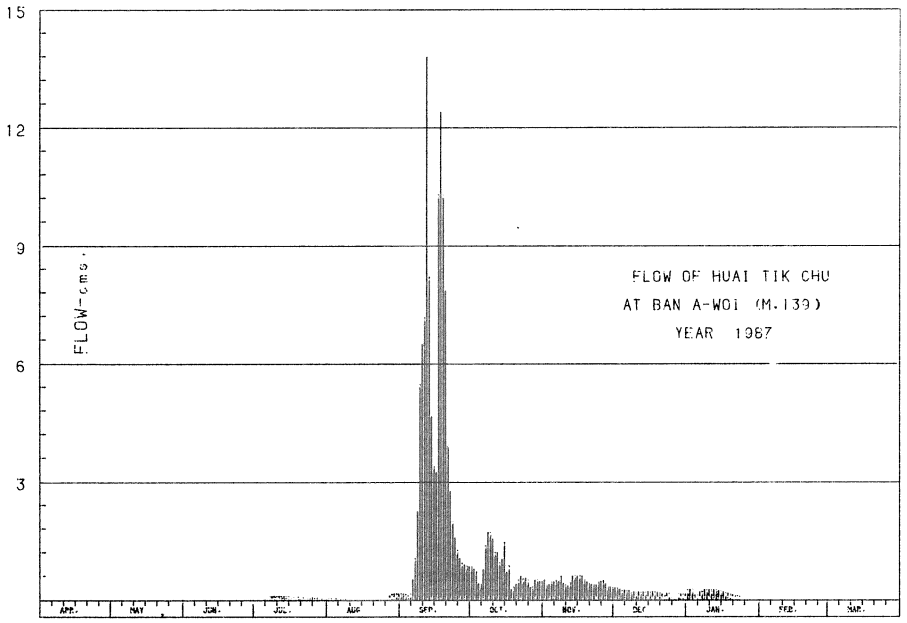
HUAI TIK CHU AT BAN A WOI, SI SA KET (M.139)

LOCATION	LAT. 14°-39'-53" N., LONG. 104°-07'-27" E., ON LEFT BANK AT THE BRIDGE OF BAN NA CHAROEN-KHU KHAN ROAD, AMPHOE KHU KHAN, SI SA KET.
DRAINAGE AREA	258 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.185 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON JULY 1,1987. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	0.94	1.11	1.27	1.73	2.29	2.11	2.07	1.77	1.53	
2	*******	*******	*******	0.94	1.10	1.26	1.70	2.19	2.11	2.07	1.76	1.53	
3	*******	*******	*******	0.94	1.09	1.25	1.67	2.19	2.07	2.07	1.76	1.52	
4	*******	*******	*******	1.02	1.09	1.21	1.61	2.26	2.04	1.92	1.74	1.50	
5	*******	*******	*******	1.07	1.08	1.26	1.61	2.25	2.05	1.93	1.72	1.49	
6	*******	*******	*******	1.10	1.07	1.56	1.67	2.28	2.05	2.00	1.72	1.48	
7	*******	*******	*******	1.16	1.06	1.82	1.75	2.25	2.04	2.02	1.71	1.47	
8	*******	*******	*******	1.18	1.05	2.13	1.79	2.35	2.00	2.06	1.70	1.46	
9	*******	*******	*******	1.20	1.05	2.42	1.79	2.22	2.00	2.06	1.71	1.45	
10	*******	*******	*******	1.20	1.04	2.45	1.77	2.19	2.00	2.06	1.71	1.44	
11	*******	*******	*******	1.20	1.04	2.47	1.73	2.16	2.00	2.06	1.70	1.43	
12	*******	*******	*******	1.20	1.04	2.58	1.73	2.23	2.00	2.06	1.69	1.43	
13	*******	*******	*******	1.20	1.03	2.50	1.70	2.35	2.00	2.06	1.69	1.42	
14	*******	*******	*******	1.18	1.02	2.39	1.71	2.36	2.00	2.03	1.69	1.41	
15	*******	*******	*******	1.18	1.01	2.30	1.76	2.35	2.01	2.03	1.67	1.40	
16	*******	*******	*******	1.16	1.00	2.28	1.66	2.36	2.00	2.00	1.67	1.39	
17	*******	*******	*******	1.15	1.00	2.53	1.74	2.35	2.01	1.99	1.66	1.38	
18	*******	*******	*******	1.15	1.00	2.56	2.06	2.30	2.01	1.97	1.65	1.37	
19	*******	*******	*******	1.15	1.00	2.53	2.13	2.25	1.99	1.95	1.63	1.36	
20	*******	*******	*******	1.14	1.00	2.49	2.20	2.22	1.99	1.93	1.62	1.35	
21	*******	*******	*******	1.14	1.00	2.34	2.29	2.20	1.95	1.91	1.61	1.34	
22	*******	*******	*******	1.12	1.00	2.22	2.35	2.19	1.92	1.91	1.60	1.33	
23	*******	*******	*******	1.11	1.01	2.08	2.31	2.18	1.97	1.89	1.59	1.32	
24	*******	*******	*******	1.14	1.04	1.98	2.32	2.24	1.97	1.88	1.58	1.31	
25	*******	*******	*******	1.13	1.08	1.89	2.29	2.27	1.89	1.87	1.57	1.30	
26	*******	*******	*******	1.11	1.16	1.82	2.12	2.28	1.89	1.85	1.57	1.29	
27	*******	*******	*******	1.11	1.21	1.77	2.14	2.21	1.90	1.82	1.55	1.28	
28	*******	*******	*******	1.10	1.25	1.75	2.29	2.15	1.95	1.81	1.55	1.27	
29	*******	*******	*******	1.09	1.26	1.74	2.30	2.13	1.95	1.81	1.55	1.26	
30	*******	*******	*******	1.09	1.27	1.73	2.26	2.12	1.95	1.80		1.25	
31		*******		1.11	1.26		2.27		1.95	1.79		1.24	
MEAN	*******	*******	*******	1.12	1.08	2.02	1.95	2.25	1.99	1.96	1.66	1.39	
MAX	*******	*******	*******	1.20	1.27	2.58	2.35	2.36	2.11	2.07	1.77	1.53	2.58
MIN	*******	*******	*******	0.94	1.00	1.21	1.61	2.12	1.89	1.79	1.55	1.24	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.58 M (A.D), AT 6.00 HOURS, ON SEP 12, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.29 M (A.D)
LEFT BANK ELEVATION 3.71 M (A.D)
RIGHT BANK ELEVATION 3.71 M (A.D), DRAINAGE AREA 258 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	0.00	0.06	0.17	0.85	0.51	0.31	0.27	0.00	0.00	
2	*******	*******	*******	0.00	0.05	0.16	0.79	0.39	0.31	0.27	0.00	0.00	
3	*******	*******	*******	0.00	0.05	0.15	0.73	0.39	0.27	0.27	0.00	0.00	
4	*******	*******	*******	0.01	0.05	0.11	0.41	0.47	0.24	0.12	0.00	0.00	
5	*******	*******	*******	0.04	0.04	0.16	0.41	0.46	0.25	0.13	0.00	0.00	
6	*******	*******	*******	0.05	0.04	0.52	0.77	0.50	0.25	0.20	0.00	0.00	
7	*******	*******	*******	0.08	0.03	1.06	1.38	0.46	0.24	0.22	0.00	0.00	
8	*******	*******	*******	0.09	0.03	2.25	1.72	0.61	0.20	0.26	0.00	0.00	
9	*******	*******	*******	0.10	0.03	5.48	1.72	0.42	0.20	0.26	0.00	0.00	
10	*******	*******	*******	0.10	0.02	6.50	1.55	0.39	0.20	0.26	0.00	0.00	
11	*******	*******	*******	0.10	0.02	7.18	1.21	0.36	0.20	0.26	0.00	0.00	
12	*******	*******	*******	0.10	0.02	13.80	1.21	0.44	0.20	0.26	0.00	0.00	
13	*******	*******	*******	0.10	0.02	8.20	0.95	0.61	0.20	0.26	0.00	0.00	
14	*******	*******	*******	0.09	0.01	4.66	1.04	0.63	0.20	0.23	0.00	0.00	
15	*******	*******	*******	0.09	0.01	3.40	1.46	0.61	0.21	0.23	0.00	0.00	
16	*******	*******	*******	0.08	0.00	3.24	0.71	0.63	0.20	0.20	0.00	0.00	
17	*******	*******	*******	0.08	0.00	10.30	0.87	0.61	0.21	0.19	0.00	0.00	
18	*******	*******	*******	0.08	0.00	12.40	0.26	0.52	0.21	0.17	0.00	0.00	
19	*******	*******	*******	0.08	0.00	10.30	0.33	0.46	0.19	0.15	0.00	0.00	
20	*******	*******	*******	0.07	0.00	7.86	0.40	0.42	0.19	0.13	0.00	0.00	
21	*******	*******	*******	0.07	0.00	3.96	0.51	0.40	0.15	0.11	0.00	0.00	
22	*******	*******	*******	0.06	0.00	2.76	0.61	0.39	0.12	0.11	0.00	0.00	
23	*******	*******	*******	0.06	0.01	2.01	0.54	0.38	0.17	0.09	0.00	0.00	
24	*******	*******	*******	0.07	0.02	1.58	0.56	0.45	0.17	0.08	0.00	0.00	
25	*******	*******	*******	0.07	0.04	1.27	0.51	0.48	0.09	0.07	0.00	0.00	
26	*******	*******	*******	0.06	0.08	1.06	0.32	0.50	0.09	0.05	0.00	0.00	
27	*******	*******	*******	0.06	0.11	0.94	0.34	0.41	0.09	0.02	0.00	0.00	
28	*******	*******	*******	0.05	0.15	0.90	0.51	0.35	0.15	0.01	0.00	0.00	
29	*******	*******	*******	0.05	0.16	0.87	0.52	0.33	0.15	0.01	0.00	0.00	
30	*******	*******	*******	0.05	0.17	0.85	0.47	0.32	0.15	0.00		0.00	
31		*******		0.06	0.16		0.48		0.15	0.00		0.00	
TOTAL	*******	*******	*******	2.00	1.38	114.10	24.14	13.90	5.96	4.89	0.00	0.00	******** CMSDAY
MEAN	*******	*******	*******	0.06	0.04	3.80	0.78	0.46	0.19	0.16	0.00	0.00	******** CMS
MAX	*******	*******	*******	0.10	0.17	13.80	1.72	0.63	0.31	0.27	0.00	0.00	13.80 CMS
MIN	*******	*******	*******	0.00	0.00	0.11	0.26	0.32	0.09	0.00	0.00	0.00	******** CMS
RUNOFF	*******	*******	*******	0.173	0.119	9.858	2.086	1.201	0.515	0.422	0.000	0.000	******** MCM

MOMENTARY PEAK 13.80 CMS, AT 2.58 M (A.D), AT 6.00 HOURS, ON SEP 12, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 53.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MUN RIVER BASIN

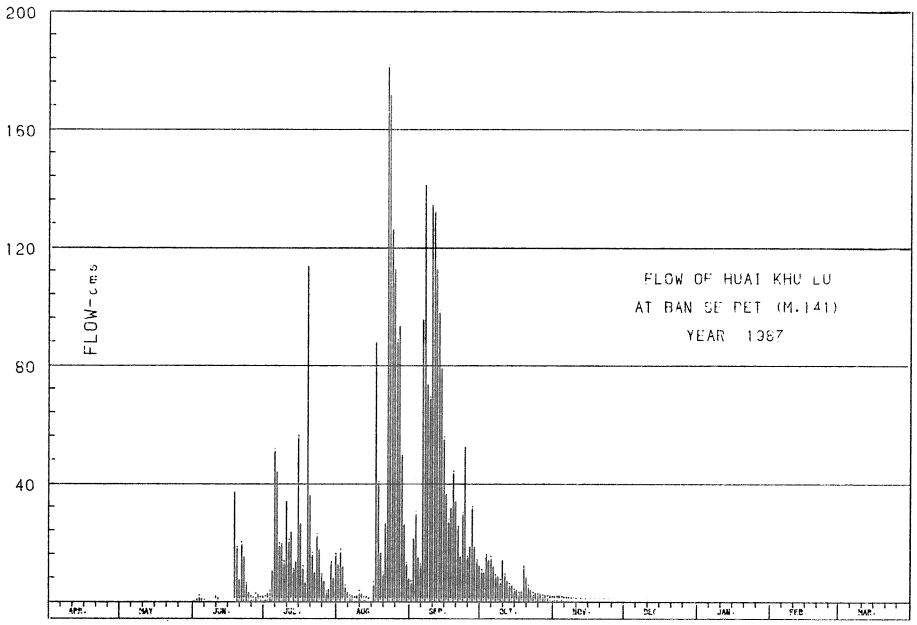
HUAI KHULU AT BAN SE PET, UBON RATCHATHANI (M.141)

LOCATION	LAT. 15°-32'-24" N., LONG. 104°-58'-46" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN SE PET, AMPHOE TRAKAN PHUTPON, UBON RATCHATHANI.
DRAINAGE AREA	382 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAY DEPARTMENT.
LOCATION	ON LEFT BANK DOWNSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+7.494 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +4.60 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	0.82	1.39	1.80	2.25	2.07	2.20	1.77	1.59	1.52	1.42	1.20	
2	0.96	0.77	1.58	1.86	2.43	2.53	2.16	1.79	1.58	1.52	1.41	1.19	
3	0.96	0.75	1.82	1.94	2.23	2.77	2.37	1.79	1.58	1.52	1.41	1.18	
4	0.95	1.10	1.61	2.18	2.02	2.33	2.30	1.78	1.58	1.50	1.41	1.18	
5	0.94	1.28	1.57	3.30	1.90	2.26	2.35	1.76	1.57	1.50	1.40	1.16	
6	0.93	1.03	1.53	3.10	1.82	4.21	2.23	1.75	1.57	1.49	1.39	1.15	
7	0.92	1.25	1.70	2.50	1.78	5.02	2.14	1.73	1.56	1.48	1.38	1.14	
8	0.99	1.02	1.66	2.49	1.75	3.79	2.12	1.72	1.56	1.48	1.37	1.14	
9	1.06	1.20	1.71	2.30	1.78	3.71	2.09	1.72	1.56	1.47	1.36	1.13	
10	1.01	1.19	1.78	2.85	1.94	4.89	2.30	1.71	1.56	1.47	1.35	1.13	
11	1.08	1.40	1.71	2.53	1.84	4.87	2.15	1.71	1.56	1.47	1.34	1.12	
12	1.05	1.35	1.64	2.59	1.77	4.52	2.07	1.71	1.55	1.48	1.33	1.11	
13	1.03	1.36	1.59	2.21	1.76	4.27	2.04	1.70	1.55	1.47	1.32	1.11	
14	1.00	1.33	1.53	2.28	1.71	3.90	2.01	1.68	1.55	1.47	1.31	1.10	
15	0.98	1.31	1.54	3.41	1.69	3.40	1.97	1.68	1.55	1.46	1.30	1.10	
16	0.97	1.28	1.52	2.66	2.06	2.91	1.94	1.68	1.54	1.46	1.30	1.09	
17	0.95	1.24	1.59	2.24	4.07	2.70	1.91	1.67	1.54	1.46	1.29	1.09	
18	0.94	1.23	2.93	2.04	3.02	2.79	1.91	1.67	1.53	1.47	1.28	1.09	
19	0.92	1.17	2.46	4.56	2.38	3.11	2.24	1.66	1.53	1.46	1.27	1.08	
20	0.91	1.06	2.08	2.90	2.17	2.85	2.11	1.65	1.53	1.45	1.26	1.08	
21	0.91	1.05	2.51	2.39	2.66	2.64	2.02	1.65	1.52	1.44	1.25	1.07	
22	0.91	1.02	2.34	2.16	5.68	2.34	1.94	1.65	1.52	1.44	1.24	1.06	
23	0.89	1.19	2.05	2.58	5.51	2.76	1.91	1.65	1.52	1.43	1.23	1.05	
24	0.88	1.16	1.89	2.42	4.77	3.31	1.87	1.65	1.52	1.43	1.22	1.05	
25	0.87	1.16	1.80	2.15	4.52	2.35	1.88	1.64	1.52	1.44	1.22	1.05	
26	0.87	1.11	1.74	2.06	4.09	2.45	1.85	1.64	1.52	1.45	1.21	1.04	
27	1.17	1.31	1.88	1.93	4.17	2.81	1.83	1.63	1.52	1.45	1.21	1.04	
28	1.01	1.02	1.83	1.95	3.27	2.45	1.81	1.62	1.52	1.45	1.20	1.03	
29	0.97	1.11	1.77	2.29	2.65	2.31	1.80	1.61	1.52	1.44	1.20	1.02	
30	0.94	1.30	1.77	2.10	2.28	2.24	1.78	1.59	1.52	1.44		1.02	
31		1.28		2.38	2.09		1.77		1.52	1.43		1.01	
MEAN	0.96	1.16	1.82	2.46	2.71	3.15	2.03	1.69	1.54	1.47	1.31	1.10	
MAX	1.17	1.40	2.93	4.56	5.68	5.02	2.37	1.79	1.59	1.52	1.42	1.20	5.68
MIN	0.87	0.75	1.39	1.80	1.69	2.07	1.77	1.59	1.52	1.43	1.20	1.01	0.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.00 M (A.D), AT 15.00 HOURS, ON AUG 22, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.83 M (A.D)
LEFT BANK ELEVATION 5.60 M (A.D)
RIGHT BANK ELEVATION 4.59 M (A.D), DRAINAGE AREA 382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.27	2.10	12.50	7.13	11.00	1.83	0.87	0.66	0.36	0.00	
2	0.00	0.00	0.84	2.70	17.90	21.20	9.80	2.01	0.84	0.66	0.33	0.00	
3	0.00	0.00	2.30	3.90	11.90	30.80	16.10	2.01	0.84	0.66	0.33	0.00	
4	0.00	0.00	0.93	10.40	5.68	14.90	14.00	1.92	0.84	0.60	0.33	0.00	
5	0.00	0.00	0.81	52.00	3.10	12.80	15.50	1.74	0.81	0.60	0.30	0.00	
6	0.00	0.00	0.69	44.00	2.30	95.55	11.90	1.65	0.81	0.57	0.27	0.00	
7	0.00	0.00	1.20	20.00	1.92	142.20	9.20	1.47	0.78	0.54	0.24	0.00	
8	0.00	0.00	1.08	19.70	1.65	73.50	8.60	1.38	0.78	0.54	0.21	0.00	
9	0.00	0.00	1.29	14.00	1.92	69.50	7.71	1.38	0.78	0.51	0.18	0.00	
10	0.00	0.00	1.92	34.00	3.90	134.40	14.00	1.29	0.78	0.51	0.15.	0.00	
11	0.00	0.30	1.29	21.20	2.50	133.20	9.50	1.29	0.78	0.51	0.12	0.00	
12	0.00	0.15	1.02	23.60	1.83	112.60	7.13	1.29	0.75	0.54	0.09	0.00	
13	0.00	0.18	0.87	11.30	1.74	98.85	6.26	1.20	0.75	0.51	0.06	0.00	
14	0.00	0.09	0.69	13.40	1.29	79.00	5.39	1.14	0.75	0.51	0.03	0.00	
15	0.00	0.03	0.72	56.40	1.17	56.00	4.50	1.14	0.75	0.48	0.00	0.00	
16	0.00	0.00	0.66	26.40	6.84	36.40	3.90	1.14	0.72	0.48	0.00	0.00	
17	0.00	0.00	0.87	12.20	87.85	28.00	3.30	1.11	0.72	0.48	0.00	0.00	
18	0.00	0.00	37.20	6.26	40.80	31.60	3.30	1.11	0.69	0.51	0.00	0.00	
19	0.00	0.00	18.80	114.80	16.40	44.40	12.20	1.08	0.69	0.48	0.00	0.00	
20	0.00	0.00	7.42	36.00	10.10	34.00	8.30	1.05	0.69	0.45	0.00	0.00	
21	0.00	0.00	20.40	16.70	26.40	25.60	5.68	1.05	0.66	0.42	0.00	0.00	
22	0.00	0.00	15.20	9.80	182.20	15.20	3.90	1.05	0.66	0.42	0.00	0.00	
23	0.00	0.00	6.55	23.20	171.60	30.40	3.30	1.05	0.66	0.39	0.00	0.00	
24	0.00	0.00	3.00	17.60	127.20	52.40	2.80	1.05	0.66	0.39	0.00	0.00	
25	0.00	0.00	2.10	9.50	112.60	15.50	2.90	1.02	0.66	0.42	0.00	0.00	
26	0.00	0.00	1.56	6.84	88.95	18.50	2.60	1.02	0.66	0.45	0.00	0.00	
27	0.00	0.03	2.90	3.70	93.35	32.40	2.40	0.99	0.66	0.45	0.00	0.00	
28	0.00	0.00	2.40	4.10	50.80	18.50	2.20	0.96	0.66	0.45	0.00	0.00	
29	0.00	0.00	1.83	13.70	26.00	14.30	2.10	0.93	0.66	0.42	0.00	0.00	
30	0.00	0.00	1.83	8.00	13.40	12.20	1.92	0.87	0.66	0.42		0.00	
31		0.00		16.40	7.71		1.83		0.66	0.39		0.00	
TOTAL	0.00	0.78	138.64	653.90	1133.50	1491.03	213.22	38.22	22.68	15.42	3.00	0.00	3710.39 CMSDAY
MEAN	0.00	0.03	4.62	21.09	36.56	49.70	6.88	1.27	0.73	0.50	0.10	0.00	10.14 CMS
MAX	0.00	0.30	37.20	114.80	182.20	142.20	16.10	2.01	0.87	0.66	0.36	0.00	182.20 CMS
MIN	0.00	0.00	0.27	2.10	1.17	7.13	1.83	0.87	0.66	0.39	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.067	11.978	56.497	97.934	128.825	18.422	3.302	1.960	1.332	0.259	0.000	320.578 MCM

MOMENTARY PEAK 203.00 CMS, AT 6.00 M (A.D), AT 15.00 HOURS, ON AUG 22, 1987
RUNOFF YIELD 26.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 531.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

TONLE SAP BASIN

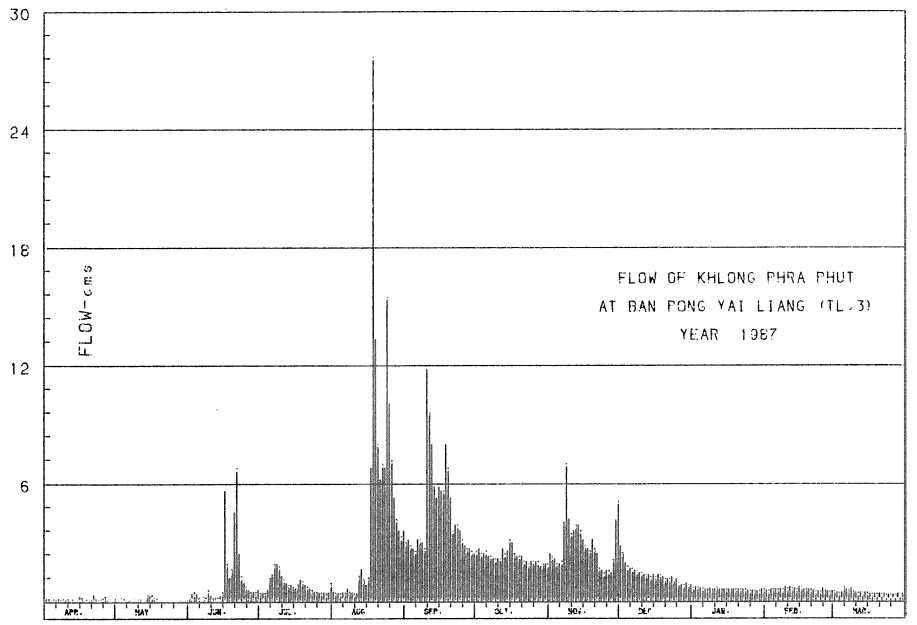
KHLONG PHRA PHUT AT BAN PONG YAI LIANG, CHANTHABURI (TL.3)

LOCATION	LAT. 12°-58'-05" N., LONG. 102°-17'-20" E., ON LEFT BANK DOWNSTREAM FROM THE BRIDGE OF PONG NAM RON - WANG NAM YEN HIGHWAY, BAN PONG YAI LIANG, AMPHOE PONG NAM RON, CHANTHABURI.
DRAINAGE AREA	79 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 6 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.298 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.31	0.31	0.34	0.39	0.40	0.62	0.59	0.58	0.66	0.50	0.47	0.46	
2	0.31	0.31	0.38	0.39	0.39	0.63	0.60	0.57	0.64	0.50	0.47	0.45	
3	0.31	0.32	0.40	0.39	0.38	0.61	0.58	0.56	0.61	0.50	0.48	0.45	
4	0.31	0.31	0.37	0.41	0.38	0.60	0.58	0.54	0.60	0.49	0.48	0.45	
5	0.31	0.30	0.33	0.48	0.39	0.59	0.59	0.54	0.59	0.49	0.48	0.50	
6	0.31	0.31	0.32	0.50	0.39	0.63	0.57	0.55	0.59	0.48	0.48	0.48	
7	0.31	0.31	0.34	0.54	0.42	0.63	0.57	0.69	0.58	0.48	0.48	0.47	
8	0.31	0.32	0.33	0.54	0.40	0.62	0.56	0.85	0.58	0.49	0.48	0.49	
9	0.31	0.31	0.41	0.53	0.39	0.60	0.56	0.70	0.57	0.48	0.50	0.46	
10	0.31	0.31	0.35	0.49	0.38	1.06	0.56	0.65	0.57	0.48	0.49	0.45	
11	0.31	0.31	0.32	0.47	0.38	0.97	0.56	0.66	0.56	0.50	0.50	0.45	
12	0.31	0.31	0.33	0.45	0.49	0.90	0.60	0.68	0.56	0.48	0.49	0.45	
13	0.30	0.31	0.33	0.44	0.52	0.80	0.58	0.68	0.56	0.48	0.49	0.45	
14	0.30	0.37	0.35	0.44	0.47	0.76	0.59	0.66	0.55	0.48	0.48	0.45	
15	0.34	0.35	0.40	0.43	0.44	0.80	0.63	0.63	0.56	0.48	0.50	0.45	
16	0.33	0.36	0.78	0.42	0.48	0.78	0.62	0.61	0.55	0.48	0.50	0.44	
17	0.31	0.32	0.54	0.44	0.84	0.78	0.58	0.60	0.56	0.48	0.48	0.44	
18	0.31	0.32	0.48	0.47	1.57	0.90	0.57	0.59	0.56	0.48	0.48	0.44	
19	0.31	0.31	0.52	0.46	1.12	0.84	0.57	0.63	0.55	0.48	0.48	0.44	
20	0.31	0.31	0.72	0.44	0.90	0.76	0.57	0.60	0.54	0.48	0.48	0.44	
21	0.36	0.31	0.84	0.43	0.81	0.66	0.55	0.58	0.54	0.48	0.47	0.44	
22	0.31	0.31	0.58	0.42	0.85	0.68	0.55	0.59	0.54	0.48	0.46	0.44	
23	0.31	0.30	0.49	0.41	0.84	0.68	0.54	0.58	0.55	0.48	0.46	0.43	
24	0.31	0.30	0.45	0.40	1.20	0.66	0.55	0.57	0.54	0.47	0.46	0.43	
25	0.32	0.30	0.43	0.40	0.99	0.63	0.55	0.58	0.54	0.47	0.49	0.43	
26	0.34	0.30	0.41	0.39	0.86	0.61	0.55	0.58	0.52	0.47	0.47	0.43	
27	0.31	0.29	0.40	0.39	0.76	0.60	0.55	0.57	0.51	0.47	0.46	0.43	
28	0.31	0.31	0.40	0.39	0.70	0.60	0.53	0.62	0.51	0.46	0.46	0.44	
29	0.31	0.30	0.40	0.38	0.66	0.59	0.54	0.72	0.52	0.47	0.46	0.44	
30	0.32	0.31	0.41	0.39	0.64	0.58	0.54	0.75	0.51	0.48		0.44	
31		0.31		0.45	0.66		0.54		0.51	0.48		0.43	
MEAN	0.31	0.31	0.44	0.44	0.65	0.71	0.57	0.62	0.56	0.48	0.48	0.45	
MAX	0.36	0.37	0.84	0.54	1.57	1.06	0.63	0.85	0.66	0.50	0.50	0.50	1.57
MIN	0.30	0.29	0.32	0.38	0.38	0.58	0.53	0.54	0.51	0.46	0.46	0.43	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.34 M (A.D). AT 7.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.01 M (A.D)
LEFT BANK ELEVATION 5.89 M (A.D)
RIGHT BANK ELEVATION 5.39 M (A.D). DRAINAGE AREA 79 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.14	0.26	0.46	0.50	3.00	2.57	2.44	2.82	0.74	0.57	0.52	
2	0.14	0.14	0.42	0.46	0.46	3.15	2.70	2.31	2.48	0.74	0.57	0.46	
3	0.14	0.18	0.50	0.46	0.42	2.85	2.44	2.18	1.97	0.74	0.63	0.46	
4	0.14	0.14	0.38	0.59	0.42	2.70	2.44	1.92	1.80	0.68	0.63	0.46	
5	0.14	0.10	0.22	1.22	0.46	2.57	2.57	1.92	1.69	0.68	0.63	0.74	
6	0.14	0.14	0.18	1.40	0.46	3.15	2.31	2.05	1.69	0.63	0.63	0.63	
7	0.14	0.14	0.26	1.92	0.68	3.15	2.31	4.05	1.59	0.63	0.63	0.57	
8	0.14	0.18	0.22	1.92	0.50	3.00	2.18	7.00	1.59	0.68	0.63	0.68	
9	0.14	0.14	0.59	1.79	0.46	2.70	2.18	4.20	1.48	0.63	0.74	0.52	
10	0.14	0.14	0.30	1.31	0.42	11.80	2.18	3.45	1.48	0.63	0.68	0.46	
11	0.14	0.14	0.18	1.13	0.42	9.61	2.18	3.60	1.38	0.74	0.74	0.46	
12	0.14	0.14	0.22	0.95	1.31	8.00	2.70	3.90	1.38	0.63	0.68	0.46	
13	0.10	0.14	0.22	0.86	1.66	6.00	2.44	3.90	1.38	0.63	0.68	0.46	
14	0.10	0.38	0.30	0.86	1.13	5.28	2.57	3.60	1.27	0.63	0.63	0.46	
15	0.26	0.30	0.50	0.77	0.86	6.00	3.15	3.15	1.38	0.63	0.74	0.46	
16	0.22	0.34	5.64	0.68	1.22	5.64	3.00	2.85	1.27	0.63	0.74	0.40	
17	0.14	0.18	1.92	0.86	6.80	5.64	2.44	2.70	1.38	0.63	0.63	0.40	
18	0.14	0.18	1.22	1.13	27.69	8.00	2.31	2.57	1.38	0.63	0.63	0.40	
19	0.14	0.14	1.66	1.04	13.34	6.80	2.31	3.15	1.27	0.63	0.63	0.40	
20	0.14	0.14	4.56	0.86	8.00	5.28	2.31	2.70	1.16	0.63	0.63	0.40	
21	0.34	0.14	6.80	0.77	6.20	3.60	2.05	2.44	1.16	0.63	0.57	0.40	
22	0.14	0.14	2.44	0.68	7.00	3.90	2.05	1.69	1.16	0.63	0.52	0.40	
23	0.14	0.10	1.31	0.59	6.80	3.90	1.92	1.59	1.27	0.63	0.52	0.35	
24	0.14	0.10	0.95	0.50	15.50	3.60	2.05	1.48	1.16	0.57	0.52	0.35	
25	0.18	0.10	0.77	0.50	10.07	3.15	2.05	1.59	1.16	0.57	0.68	0.35	
26	0.26	0.10	0.59	0.46	7.20	2.85	2.05	1.59	0.95	0.57	0.57	0.35	
27	0.14	0.08	0.50	0.46	5.28	2.70	2.05	1.48	0.85	0.57	0.52	0.35	
28	0.14	0.14	0.50	0.46	4.20	2.70	1.79	2.14	0.85	0.52	0.52	0.40	
29	0.14	0.10	0.50	0.42	3.60	2.57	1.92	4.14	0.95	0.57	0.52	0.40	
30	0.18	0.14	0.59	0.46	3.30	2.44	1.92	5.10	0.85	0.63		0.40	
31		0.14		0.95	3.60		1.92		0.85	0.63		0.35	
TOTAL	4.72	4.80	34.70	26.92	139.96	135.73	71.06	86.88	43.05	19.71	18.01	13.90	599.44 CMSDAY
MEAN	0.16	0.15	1.16	0.87	4.51	4.52	2.29	2.90	1.39	0.64	0.62	0.45	1.64 CMS
MAX	0.34	0.38	6.80	1.92	27.69	11.80	3.15	7.00	2.82	0.74	0.74	0.74	27.69 CMS
MIN	0.10	0.08	0.18	0.42	0.42	2.44	1.79	1.48	0.85	0.52	0.52	0.35	0.08 CMS
RUNOFF	0.408	0.415	2.998	2.326	12.093	11.727	6.140	7.506	3.720	1.703	1.556	1.201	51.792 MCM

MOMENTARY PEAK 68.68 CMS, AT 2.34 M (A.D), AT 7.00 HOURS, ON AUG 18, 1987

RUNOFF YIELD 20.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 869.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

TONLE SAP BASIN

KHLONG TA KHONG AT BAN KHLONG TA KHONG, CHANTHABURI (TL.4)

LOCATION — LAT. 12°-54'-57" N., LONG. 102°-19'-30" E., ON LEFT BANK DOWNSTREAM FROM THE BRIDGE OF AMPHOE PONG NAM RON - BAN PONG NAM RON HIGHWAY, BAN TA KHONG, AMPHOE PONG NAM RON, CHANTHABURI.

DRAINAGE AREA — 96 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +9.906 M.(A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1984 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1986 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1986 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

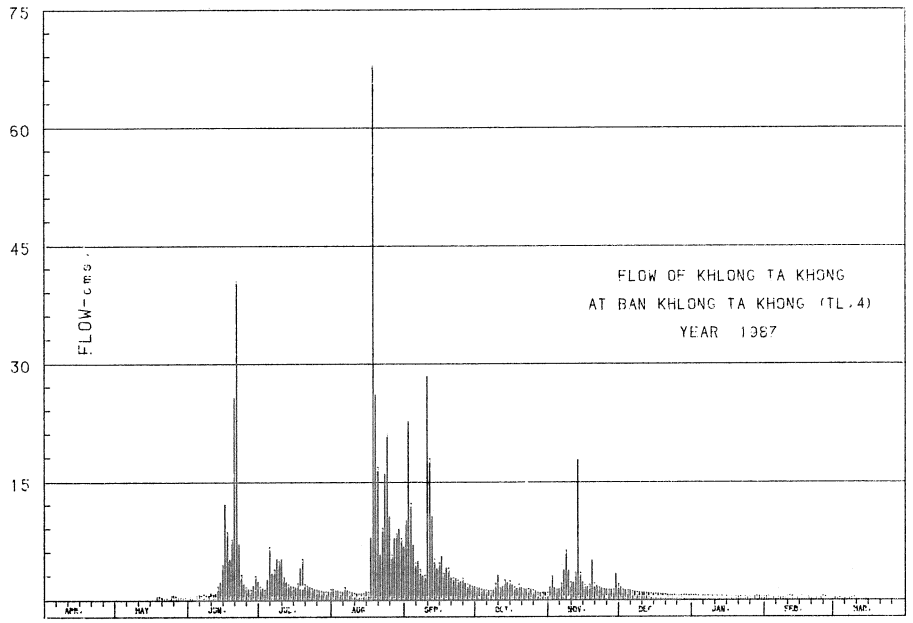
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	0.00	0.74	1.03	0.98	1.88	1.00	1.01	1.01	0.79	0.74	0.68	
2	0.27	0.00	0.74	0.99	0.93	2.63	1.00	1.22	0.96	0.79	0.74	0.68	
3	0.25	0.00	0.73	0.96	0.94	2.04	0.97	1.00	0.94	0.78	0.73	0.68	
4	0.24	0.00	0.76	1.17	0.91	1.63	0.95	0.96	0.94	0.77	0.72	0.67	
5	0.22	0.00	0.80	1.61	0.90	1.42	0.95	0.97	0.94	0.77	0.72	0.66	
6	0.18	0.00	0.78	1.27	1.02	1.44	0.93	1.10	0.91	0.77	0.71	0.65	
7	0.16	0.00	0.83	1.33	0.94	1.33	0.93	1.32	0.90	0.77	0.70	0.64	
8	0.14	0.00	0.79	1.47	0.91	1.23	0.94	1.57	0.89	0.77	0.68	0.69	
9	0.13	0.00	0.78	1.44	0.89	1.24	1.10	1.31	0.88	0.76	0.70	0.72	
10	0.12	0.00	0.86	1.47	0.87	2.91	1.24	1.12	0.87	0.76	0.75	0.68	
11	0.11	0.00	0.82	1.21	0.85	2.38	1.00	1.11	0.87	0.76	0.78	0.66	
12	0.09	0.00	0.84	1.12	0.85	1.92	1.03	1.28	0.87	0.76	0.75	0.65	
13	0.07	0.00	1.04	1.08	0.85	1.47	1.16	2.37	0.86	0.76	0.74	0.65	
14	0.06	0.00	1.12	1.04	0.87	1.34	1.11	1.28	0.85	0.76	0.75	0.64	
15	0.05	0.00	1.39	1.03	0.91	1.42	1.14	1.12	0.84	0.75	0.76	0.62	
16	0.04	0.00	2.03	1.01	0.90	1.50	1.06	1.06	0.84	0.74	0.76	0.61	
17	0.04	0.00	1.77	1.10	1.71	1.27	1.02	1.02	0.84	0.74	0.75	0.58	
18	0.03	0.77	1.46	1.35	4.34	1.35	0.98	1.07	0.83	0.74	0.75	0.58	
19	0.02	0.75	1.69	1.47	2.80	1.35	1.08	1.45	0.83	0.74	0.73	0.58	
20	0.01	0.71	2.78	1.09	2.32	1.20	1.00	1.10	0.82	0.74	0.72	0.58	
21	0.04	0.66	3.43	1.05	1.52	1.20	0.97	1.04	0.81	0.73	0.72	0.57	
22	0.03	0.66	1.64	1.02	1.81	1.19	0.96	1.01	0.80	0.73	0.71	0.56	
23	0.03	0.66	1.25	1.00	2.27	1.16	0.98	0.99	0.79	0.73	0.68	0.55	
24	0.03	0.79	1.08	0.97	2.55	1.13	0.96	0.97	0.80	0.73	0.70	0.55	
25	0.03	0.80	1.02	0.96	1.92	1.19	0.95	0.96	0.78	0.72	0.76	0.55	
26	0.02	0.77	0.97	0.94	1.52	1.10	0.92	0.95	0.77	0.72	0.73	0.55	
27	0.02	0.72	0.96	0.93	1.70	1.08	0.88	0.96	0.79	0.73	0.72	0.54	
28	0.01	0.71	1.05	0.91	1.75	1.06	0.87	0.96	0.80	0.76	0.71	0.52	
29	0.00	0.70	1.23	0.91	1.80	1.04	0.88	1.26	0.80	0.74	0.70	0.50	
30	0.00	0.70	1.13	0.91	1.70	1.03	0.88	1.08	0.79	0.74		0.46	
31		0.69		0.98	1.61		0.88		0.79	0.74		0.44	
MEAN	0.09	0.33	1.22	1.12	1.48	1.47	0.99	1.15	0.85	0.75	0.73	0.60	
MAX	0.29	0.80	3.43	1.61	4.34	2.91	1.24	2.37	1.01	0.79	0.78	0.72	4.34
MIN	0.00	0.00	0.73	0.91	0.85	1.03	0.87	0.95	0.77	0.72	0.68	0.44	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.32 M (A.D), AT 14.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.77 M (A.D)
LEFT BANK ELEVATION 9.31 M (A.D)
RIGHT BANK ELEVATION 9.00 M (A.D), DRAINAGE AREA 96 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.42	1.68	1.40	10.04	1.50	1.56	1.56	0.57	0.42	0.26	
2	0.00	0.00	0.42	1.45	1.15	22.70	1.50	2.96	1.30	0.57	0.42	0.26	
3	0.00	0.00	0.39	1.30	1.20	12.30	1.35	1.50	1.20	0.54	0.39	0.26	
4	0.00	0.00	0.48	2.59	1.05	6.96	1.25	1.30	1.20	0.51	0.36	0.24	
5	0.00	0.00	0.60	6.72	1.00	4.70	1.25	1.35	1.20	0.51	0.36	0.22	
6	0.00	0.00	0.54	3.36	1.62	4.90	1.15	2.10	1.05	0.51	0.33	0.20	
7	0.00	0.00	0.72	3.87	1.20	3.87	1.15	3.78	1.00	0.51	0.30	0.18	
8	0.00	0.00	0.57	5.20	1.05	3.04	1.20	6.27	0.96	0.51	0.26	0.28	
9	0.00	0.00	0.54	4.90	0.96	3.12	2.10	3.69	0.92	0.48	0.30	0.36	
10	0.00	0.00	0.84	5.20	0.88	28.41	3.12	2.24	0.88	0.48	0.45	0.26	
11	0.00	0.00	0.68	2.88	0.80	17.94	1.50	2.17	0.88	0.48	0.54	0.22	
12	0.00	0.00	0.76	2.24	0.80	10.58	1.68	3.44	0.88	0.48	0.45	0.20	
13	0.00	0.00	1.74	1.98	0.80	5.20	2.52	17.76	0.84	0.48	0.42	0.20	
14	0.00	0.00	2.24	1.74	0.88	3.96	2.17	3.44	0.80	0.48	0.45	0.18	
15	0.00	0.00	4.41	1.68	1.05	4.70	2.38	2.24	0.76	0.45	0.48	0.14	
16	0.00	0.00	12.15	1.56	1.00	5.50	1.86	1.86	0.76	0.42	0.48	0.12	
17	0.00	0.00	8.64	2.10	7.92	3.36	1.62	1.62	0.76	0.42	0.45	0.08	
18	0.00	0.51	5.10	4.05	67.82	4.05	1.40	1.92	0.72	0.42	0.45	0.08	
19	0.00	0.45	7.68	5.20	26.10	4.05	1.98	5.00	0.72	0.42	0.39	0.08	
20	0.00	0.33	25.70	2.04	16.86	2.80	1.50	2.10	0.68	0.42	0.36	0.08	
21	0.00	0.22	40.48	1.80	5.72	2.80	1.35	1.74	0.64	0.39	0.36	0.07	
22	0.00	0.22	7.08	1.62	9.13	2.73	1.30	1.56	0.60	0.39	0.33	0.06	
23	0.00	0.22	3.20	1.50	15.99	2.52	1.40	1.45	0.57	0.39	0.26	0.05	
24	0.00	0.57	1.98	1.35	21.15	2.31	1.30	1.35	0.60	0.39	0.30	0.05	
25	0.00	0.60	1.62	1.30	10.58	2.73	1.25	1.30	0.54	0.36	0.48	0.05	
26	0.00	0.51	1.35	1.20	5.72	2.10	1.10	1.25	0.51	0.36	0.39	0.05	
27	0.00	0.36	1.30	1.15	7.80	1.98	0.92	1.30	0.57	0.39	0.36	0.04	
28	0.00	0.33	1.80	1.05	8.40	1.86	0.88	1.30	0.60	0.48	0.33	0.02	
29	0.00	0.30	3.04	1.05	9.00	1.74	0.92	3.28	0.60	0.42	0.30	0.00	
30	0.00	0.30	2.31	1.05	7.80	1.68	0.92	1.98	0.57	0.42		0.00	
31		0.28		1.40	6.72		0.92		0.57	0.42		0.00	
TOTAL	0.00	5.20	138.78	76.21	243.55	184.63	46.44	84.81	25.44	14.07	11.17	4.29	834.59 CMSDAY
MEAN	0.00	0.17	4.63	2.46	7.86	6.15	1.50	2.83	0.82	0.45	0.39	0.14	2.28 CMS
MAX	0.00	0.60	40.48	6.72	67.82	28.41	3.12	17.76	1.56	0.57	0.54	0.36	67.82 CMS
MIN	0.00	0.00	0.39	1.05	0.80	1.68	0.88	1.25	0.51	0.36	0.26	0.00	0.00 CMS
RUNOFF	0.000	0.449	11.991	6.585	21.043	15.952	4.012	7.328	2.198	1.216	0.965	0.371	72.109 MCM

MOMENTARY PEAK 104.04 CMS, AT 5.32 M (A.D), AT 14.00 HOURS, ON AUG 18, 1987

RUNOFF YIELD 23.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1083.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

TONLE SAP BASIN

KHLONG TANI AT BAN THAP SAI, CHANTHABURI (TL.5)

LOCATION — LAT. 12°-53'-48" N., LONG. 102°-16'-10" E., ON LEFT BANK DOWNSTREAM FROM THE BRIDGE OF CHANTHABURI - SA KAEO HIGHWAY, BAN THAP SAI, AMPHOE PONG NAM RON, CHANTHABURI.

DRAINAGE AREA — 4 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 7 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +3.905 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 — 1986 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1986 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1986 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

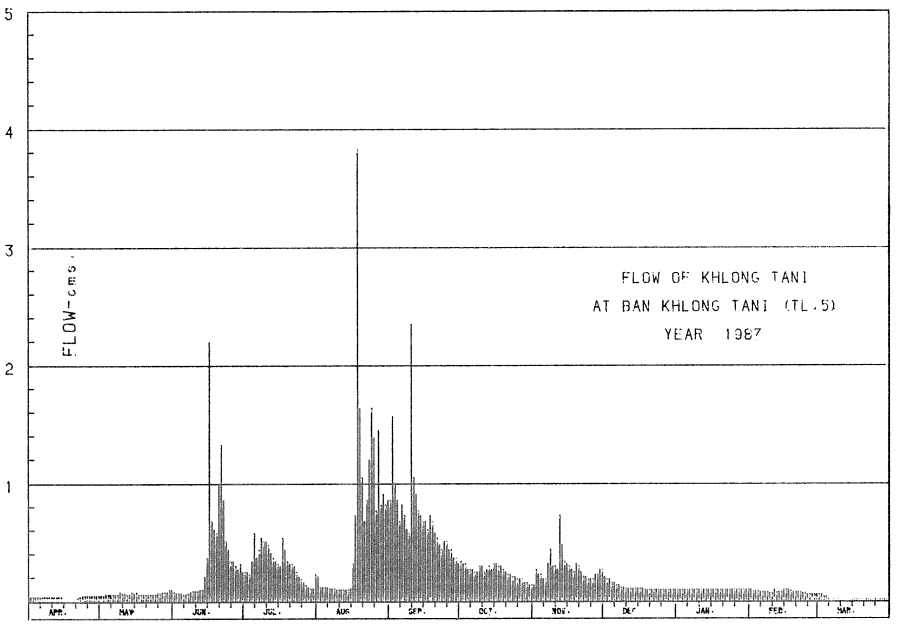
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.31	0.35	0.46	0.44	0.64	0.50	0.41	0.44	0.38	0.37	0.33	
2	0.30	0.31	0.34	0.46	0.40	0.77	0.49	0.47	0.43	0.38	0.36	0.32	
3	0.30	0.32	0.34	0.45	0.40	0.67	0.49	0.45	0.43	0.38	0.36	0.30	
4	0.30	0.32	0.34	0.50	0.40	0.64	0.47	0.45	0.42	0.38	0.36	0.30	
5	0.30	0.32	0.33	0.57	0.40	0.60	0.47	0.43	0.42	0.38	0.35	0.26	
6	0.30	0.32	0.33	0.51	0.39	0.63	0.47	0.43	0.41	0.38	0.35	0.25	
7	0.30	0.32	0.34	0.53	0.39	0.61	0.46	0.49	0.41	0.38	0.35	0.24	
8	0.30	0.32	0.35	0.56	0.39	0.58	0.46	0.53	0.40	0.38	0.35	0.24	
9	0.30	0.35	0.36	0.55	0.38	0.57	0.48	0.48	0.40	0.38	0.34	0.24	
10	0.29	0.34	0.36	0.55	0.38	0.88	0.48	0.48	0.39	0.38	0.34	0.24	
11	0.29	0.34	0.36	0.54	0.38	0.68	0.46	0.47	0.39	0.38	0.37	0.24	
12	0.29	0.33	0.37	0.52	0.37	0.65	0.47	0.61	0.39	0.38	0.35	0.24	
13	0.29	0.33	0.38	0.51	0.37	0.62	0.48	0.54	0.39	0.38	0.35	0.24	
14	0.29	0.35	0.44	0.50	0.37	0.61	0.47	0.50	0.39	0.38	0.35	0.24	
15	0.18	0.34	0.51	0.49	0.39	0.60	0.49	0.49	0.39	0.38	0.37	0.24	
16	0.18	0.35	0.86	0.48	0.49	0.60	0.49	0.48	0.39	0.38	0.38	0.24	
17	0.18	0.32	0.60	0.56	0.61	0.58	0.48	0.47	0.39	0.37	0.37	0.24	
18	0.18	0.32	0.58	0.53	1.05	0.61	0.48	0.46	0.38	0.37	0.36	0.24	
19	0.18	0.32	0.57	0.50	0.78	0.60	0.47	0.49	0.38	0.37	0.35	0.24	
20	0.18	0.33	0.67	0.49	0.68	0.57	0.46	0.48	0.38	0.37	0.35	0.24	
21	0.28	0.33	0.73	0.49	0.60	0.56	0.45	0.46	0.38	0.37	0.35	0.24	
22	0.30	0.33	0.64	0.48	0.64	0.54	0.45	0.44	0.38	0.37	0.35	0.24	
23	0.31	0.33	0.55	0.46	0.71	0.53	0.44	0.44	0.38	0.37	0.34	0.24	
24	0.31	0.33	0.53	0.44	0.78	0.55	0.44	0.43	0.38	0.37	0.34	0.24	
25	0.31	0.34	0.50	0.43	0.74	0.55	0.43	0.43	0.38	0.37	0.33	0.24	
26	0.31	0.34	0.50	0.42	0.62	0.53	0.43	0.43	0.38	0.37	0.33	0.24	
27	0.31	0.35	0.48	0.41	0.75	0.53	0.43	0.45	0.38	0.38	0.33	0.24	
28	0.31	0.35	0.47	0.40	0.63	0.51	0.42	0.45	0.38	0.37	0.33	0.24	
29	0.31	0.35	0.49	0.39	0.65	0.51	0.42	0.47	0.38	0.37	0.33	0.24	
30	0.31	0.37	0.46	0.39	0.63	0.49	0.41	0.47	0.38	0.37		0.24	
31		0.37		0.45	0.64		0.41		0.38	0.37		0.24	
MEAN	0.28	0.33	0.47	0.48	0.54	0.60	0.46	0.47	0.39	0.38	0.35	0.25	
MAX	0.31	0.37	0.86	0.57	1.05	0.88	0.50	0.61	0.44	0.38	0.38	0.33	1.05
MIN	0.18	0.31	0.33	0.39	0.37	0.49	0.41	0.41	0.38	0.37	0.33	0.24	0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.15 M (A.D), AT 6.00 HOURS, ON AUG 18, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.13 M (A.D)

LEFT BANK ELEVATION — 4.25 M (A.D)

RIGHT BANK ELEVATION — 4.25 M (A.D), DRAINAGE AREA 4 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.05	0.08	0.25	0.21	0.86	0.34	0.14	0.21	0.10	0.10	0.06	
2	0.04	0.05	0.07	0.25	0.12	1.57	0.32	0.27	0.19	0.10	0.09	0.06	
3	0.04	0.06	0.07	0.23	0.12	1.00	0.32	0.23	0.19	0.10	0.09	0.04	
4	0.04	0.06	0.07	0.34	0.12	0.86	0.27	0.23	0.16	0.10	0.09	0.04	
5	0.04	0.06	0.06	0.58	0.12	0.68	0.27	0.19	0.16	0.10	0.08	0.02	
6	0.04	0.06	0.06	0.37	0.11	0.82	0.27	0.19	0.14	0.10	0.08	0.02	
7	0.04	0.06	0.07	0.44	0.11	0.73	0.25	0.32	0.14	0.10	0.08	0.02	
8	0.04	0.06	0.08	0.54	0.11	0.61	0.25	0.44	0.12	0.10	0.08	0.02	
9	0.04	0.08	0.09	0.51	0.10	0.58	0.30	0.30	0.12	0.10	0.07	0.02	
10	0.04	0.07	0.09	0.51	0.10	2.35	0.30	0.30	0.11	0.10	0.07	0.02	
11	0.04	0.07	0.09	0.48	0.10	1.05	0.25	0.27	0.11	0.10	0.10	0.02	
12	0.04	0.06	0.10	0.41	0.10	0.91	0.27	0.73	0.11	0.10	0.08	0.02	
13	0.04	0.06	0.10	0.37	0.10	0.77	0.30	0.48	0.11	0.10	0.08	0.02	
14	0.04	0.08	0.21	0.34	0.10	0.73	0.27	0.34	0.11	0.10	0.08	0.02	
15	0.00	0.07	0.37	0.32	0.11	0.68	0.32	0.32	0.11	0.10	0.10	0.02	
16	0.00	0.08	2.20	0.30	0.32	0.68	0.32	0.30	0.11	0.10	0.10	0.02	
17	0.00	0.06	0.68	0.54	0.73	0.61	0.30	0.27	0.11	0.10	0.10	0.02	
18	0.00	0.06	0.61	0.44	3.83	0.73	0.30	0.25	0.10	0.10	0.09	0.02	
19	0.00	0.06	0.58	0.34	1.64	0.68	0.27	0.32	0.10	0.10	0.08	0.02	
20	0.00	0.06	1.00	0.32	1.05	0.58	0.25	0.30	0.10	0.10	0.08	0.02	
21	0.03	0.06	1.33	0.32	0.68	0.54	0.23	0.25	0.10	0.10	0.08	0.02	
22	0.04	0.06	0.86	0.30	0.86	0.48	0.23	0.21	0.10	0.10	0.08	0.02	
23	0.05	0.06	0.51	0.25	1.20	0.44	0.21	0.21	0.10	0.10	0.07	0.02	
24	0.05	0.06	0.44	0.21	1.64	0.51	0.21	0.19	0.10	0.10	0.07	0.02	
25	0.05	0.07	0.34	0.19	1.39	0.51	0.19	0.19	0.10	0.10	0.06	0.02	
26	0.05	0.07	0.34	0.16	0.77	0.44	0.19	0.19	0.10	0.10	0.06	0.02	
27	0.05	0.08	0.30	0.14	1.45	0.44	0.19	0.23	0.10	0.10	0.06	0.02	
28	0.05	0.08	0.27	0.12	0.82	0.37	0.16	0.23	0.10	0.10	0.06	0.02	
29	0.05	0.08	0.32	0.11	0.91	0.37	0.16	0.27	0.10	0.10	0.06	0.02	
30	0.05	0.10	0.25	0.11	0.82	0.32	0.14	0.27	0.10	0.10		0.02	
31		0.10		0.23	0.86		0.14		0.10	0.10		0.02	
TOTAL	1.03	2.09	11.64	10.02	20.70	21.90	7.79	8.43	3.71	3.10	2.32	0.74	93.47 CMSDAY
MEAN	0.03	0.07	0.39	0.32	0.67	0.73	0.25	0.28	0.12	0.10	0.08	0.02	0.26 CMS
MAX	0.05	0.10	2.20	0.58	3.83	2.35	0.34	0.73	0.21	0.10	0.10	0.06	3.83 CMS
MIN	0.00	0.05	0.06	0.11	0.10	0.32	0.14	0.14	0.10	0.10	0.06	0.02	0.00 CMS
RUNOFF	0.089	0.181	1.006	0.866	1.788	1.892	0.673	0.728	0.321	0.268	0.200	0.064	8.076 MCM

MOMENTARY PEAK 4.93 CMS, AT 1.15 M (A.D), AT 6.00 HOURS, ON AUG 18, 1987

RUNOFF YIELD 63.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1232.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

TONLE SAP BASIN

UHLONG THUNG KRANG AT BAN THUNG KRANG, CHANTHABURI (TL.6)

LOCATION — LAT. 13°-01'-36" N., LONG. 102°-16'-21" E., ON RIGHT BANK AT THE BRIDGE OF CHANTHABURI-SA KAEO HIGHWAY, TAMBON THAP SAI, AMPHOE PONG NAM RON, CHANTHABURI.

DRAINAGE AREA — 42 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 20 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +4.174 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 — 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 41 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

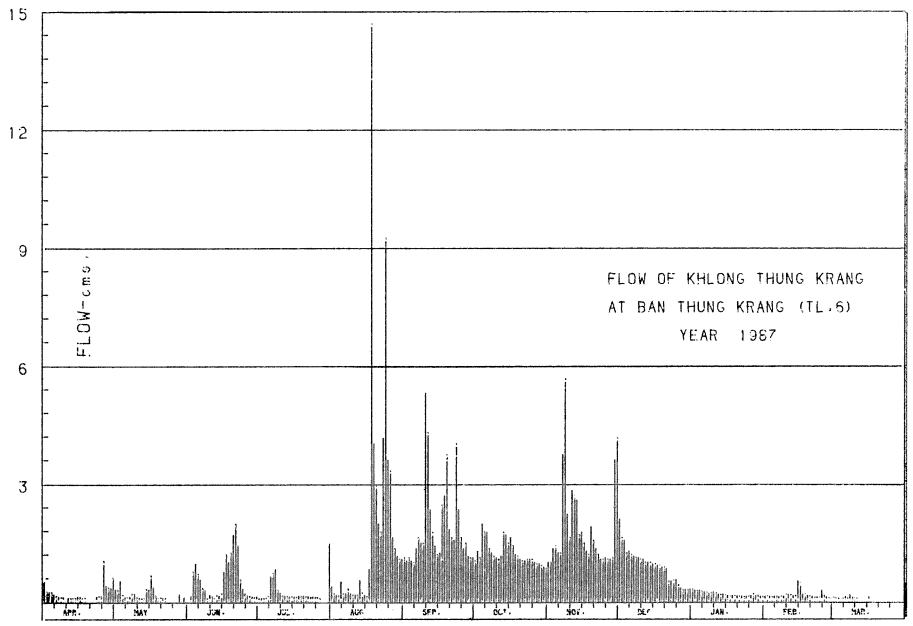
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.66	0.56	0.37	0.40	0.60	0.86	0.84	0.83	1.01	0.57	0.45	0.42	
2	0.54	0.56	0.45	0.40	0.51	0.84	0.90	0.83	0.95	0.55	0.46	0.41	
3	0.53	0.67	0.76	0.40	0.48	0.86	0.86	0.91	0.94	0.55	0.45	0.40	
4	0.53	0.49	0.82	0.41	0.47	0.84	1.00	0.92	0.89	0.55	0.44	0.40	
5	0.50	0.43	0.74	0.46	0.66	0.83	0.97	0.89	0.90	0.54	0.45	0.40	
6	0.47	0.44	0.69	0.72	0.51	0.91	0.97	0.89	0.88	0.53	0.45	0.44	
7	0.44	0.44	0.58	0.75	0.51	0.95	0.91	1.14	0.87	0.53	0.44	0.41	
8	0.43	0.51	0.55	0.78	0.57	0.93	0.89	1.26	0.86	0.51	0.46	0.48	
9	0.43	0.51	0.40	0.56	0.51	0.93	0.87	1.02	0.86	0.52	0.45	0.42	
10	0.39	0.43	0.48	0.52	0.49	1.24	0.86	0.95	0.85	0.53	0.50	0.40	
11	0.41	0.41	0.45	0.47	0.49	1.18	0.85	1.07	0.85	0.52	0.50	0.40	
12	0.41	0.40	0.41	0.46	0.49	1.03	0.87	1.06	0.83	0.50	0.49	0.38	
13	0.41	0.40	0.48	0.46	0.68	0.97	0.97	1.05	0.83	0.50	0.46	0.38	
14	0.41	0.57	0.46	0.44	0.52	0.92	0.96	0.96	0.83	0.50	0.47	0.38	
15	0.44	0.56	0.51	0.45	0.48	0.88	0.93	0.97	0.82	0.49	0.67	0.38	
16	0.44	0.73	0.76	0.44	0.45	0.89	0.95	0.93	0.82	0.47	0.65	0.43	
17	0.41	0.59	0.88	0.44	0.78	1.04	0.92	0.90	0.81	0.47	0.50	0.39	
18	0.42	0.47	0.83	0.46	1.60	1.06	0.88	0.88	0.81	0.47	0.51	0.38	
19	0.38	0.40	0.89	0.46	1.16	1.14	0.87	0.99	0.80	0.47	0.47	0.37	
20	0.34	0.42	0.96	0.46	1.08	0.98	0.85	0.94	0.80	0.46	0.46	0.36	
21	0.31	0.40	1.00	0.45	1.00	0.95	0.84	0.91	0.79	0.46	0.44	0.36	
22	0.34	0.41	0.92	0.45	0.97	0.94	0.84	0.88	0.67	0.45	0.43	0.36	
23	0.44	0.36	0.69	0.43	1.17	1.16	0.85	0.85	0.67	0.45	0.43	0.39	
24	0.46	0.34	0.57	0.44	1.42	1.03	0.85	0.85	0.68	0.45	0.43	0.39	
25	0.46	0.32	0.51	0.43	1.13	0.95	0.85	0.86	0.69	0.46	0.55	0.36	
26	0.84	0.35	0.47	0.43	1.11	0.91	0.83	0.85	0.62	0.47	0.47	0.36	
27	0.61	0.36	0.46	0.40	0.95	0.93	0.82	0.85	0.58	0.51	0.43	0.36	
28	0.59	0.51	0.44	0.39	0.91	0.87	0.82	0.86	0.56	0.47	0.41	0.35	
29	0.58	0.36	0.43	0.39	0.87	0.86	0.81	1.13	0.56	0.48	0.40	0.35	
30	0.71	0.43	0.44	0.38	0.85	0.86	0.80	1.17	0.56	0.45		0.34	
31		0.39		0.93	0.85		0.79		0.57	0.45		0.34	
MEAN	0.48	0.46	0.61	0.49	0.78	0.96	0.88	0.95	0.78	0.49	0.47	0.39	
MAX	0.84	0.73	1.00	0.93	1.60	1.24	1.00	1.26	1.01	0.57	0.67	0.48	1.60
MIN	0.31	0.32	0.37	0.38	0.45	0.83	0.79	0.83	0.56	0.45	0.40	0.34	0.31

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.89 M (A.D), AT 9.00 HOURS, ON AUG 18, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.37 M (A.D)

LEFT BANK ELEVATION — 5.29 M (A.D)

RIGHT BANK ELEVATION — 4.27 M (A.D), DRAINAGE AREA 42 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.32	0.00	0.10	0.40	1.14	1.06	1.02	2.12	0.34	0.15	0.12	
2	0.28	0.32	0.15	0.10	0.22	1.06	1.30	1.02	1.65	0.30	0.16	0.11	
3	0.26	0.54	0.78	0.10	0.18	1.14	1.14	1.37	1.58	0.30	0.15	0.10	
4	0.26	0.19	0.98	0.11	0.17	1.06	2.00	1.44	1.26	0.30	0.14	0.10	
5	0.20	0.13	0.72	0.16	0.52	1.02	1.79	1.26	1.30	0.28	0.15	0.10	
6	0.17	0.14	0.58	0.66	0.22	1.37	1.79	1.26	1.22	0.26	0.15	0.14	
7	0.14	0.14	0.36	0.75	0.22	1.65	1.37	3.76	1.18	0.26	0.14	0.11	
8	0.13	0.22	0.30	0.84	0.34	1.51	1.26	5.68	1.14	0.22	0.16	0.18	
9	0.13	0.22	0.10	0.32	0.22	1.51	1.18	2.24	1.14	0.24	0.15	0.12	
10	0.00	0.13	0.18	0.24	0.19	5.32	1.14	1.65	1.10	0.26	0.20	0.10	
11	0.11	0.11	0.15	0.17	0.19	4.32	1.10	2.84	1.10	0.24	0.20	0.10	
12	0.11	0.10	0.11	0.16	0.19	2.36	1.18	2.72	1.02	0.20	0.19	0.00	
13	0.11	0.10	0.18	0.16	0.56	1.79	1.79	2.60	1.02	0.20	0.16	0.00	
14	0.11	0.34	0.16	0.14	0.24	1.44	1.72	1.72	1.02	0.20	0.17	0.00	
15	0.14	0.32	0.22	0.15	0.18	1.22	1.51	1.79	0.98	0.19	0.54	0.00	
16	0.14	0.69	0.78	0.14	0.15	1.26	1.65	1.51	0.98	0.17	0.50	0.13	
17	0.11	0.38	1.22	0.14	0.84	2.48	1.44	1.30	0.94	0.17	0.20	0.00	
18	0.12	0.17	1.02	0.16	14.70	2.72	1.22	1.22	0.94	0.17	0.22	0.00	
19	0.00	0.10	1.26	0.16	4.04	3.76	1.18	1.93	0.90	0.17	0.17	0.00	
20	0.00	0.12	1.72	0.16	2.96	1.86	1.10	1.58	0.90	0.16	0.16	0.00	
21	0.00	0.10	2.00	0.15	2.00	1.65	1.06	1.37	0.87	0.16	0.14	0.00	
22	0.00	0.11	1.44	0.15	1.79	1.58	1.06	1.22	0.54	0.15	0.13	0.00	
23	0.14	0.00	0.58	0.13	4.18	4.04	1.10	1.10	0.54	0.15	0.13	0.00	
24	0.16	0.00	0.34	0.14	9.26	2.36	1.10	1.10	0.56	0.15	0.13	0.00	
25	0.16	0.00	0.22	0.13	3.62	1.65	1.10	1.14	0.58	0.16	0.30	0.00	
26	1.06	0.00	0.17	0.13	3.34	1.37	1.02	1.10	0.44	0.17	0.17	0.00	
27	0.42	0.00	0.16	0.10	1.65	1.51	0.98	1.10	0.36	0.22	0.13	0.00	
28	0.38	0.22	0.14	0.00	1.37	1.18	0.98	1.14	0.32	0.17	0.11	0.00	
29	0.36	0.00	0.13	0.00	1.18	1.14	0.94	3.62	0.32	0.18	0.10	0.00	
30	0.63	0.13	0.14	0.00	1.10	1.14	0.90	4.18	0.32	0.15		0.00	
31		0.00		1.51	1.10		0.87		0.34	0.15		0.00	
TOTAL	6.35	5.34	16.29	7.36	57.32	57.61	39.03	56.98	28.68	6.44	5.40	1.41	288.21 CMSDAY
MEAN	0.21	0.17	0.54	0.24	1.85	1.92	1.26	1.90	0.93	0.21	0.19	0.05	0.79 CMS
MAX	1.06	0.69	2.00	1.51	14.70	5.32	2.00	5.68	2.12	0.34	0.54	0.18	14.70 CMS
MIN	0.00	0.00	0.00	0.00	0.15	1.02	0.87	1.02	0.32	0.15	0.10	0.00	0.00 CMS
RUNOFF	0.549	0.461	1.407	0.636	4.952	4.978	3.372	4.923	2.478	0.556	0.467	0.122	24.901 MCM

MOMENTARY PEAK 27.57 CMS, AT 1.89 M (A.D), AT 9.00 HOURS, ON AUG 18, 1987

RUNOFF YIELD 18.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 656.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

THA CHIN RIVER BASIN

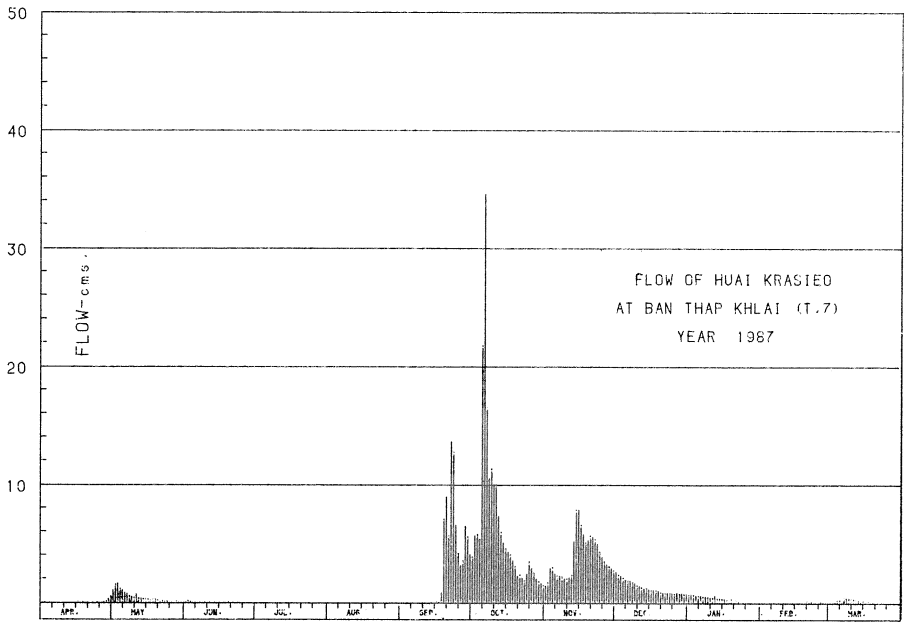
HUAI KRASIEO AT BAN THAP KHLAI, UTHAI THANI (T.7)

LOCATION	LAT. 15°-03'-06" N., LONG. 99°-35'-18" E., ON RIGHT BANK. IN THE VICINITY OF WAT THAP KHLAI AT BAN THAP KHLAI, AMPHOE BAN RAI, UTHAI THANI.
DRAINAGE AREA	607 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK UNDER THE COCONUT TREE AND ABOUT 50 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+3.689 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	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 163 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.01	0.23	0.00	-0.07	-0.13	-0.13	0.60	0.29	0.44	0.16	0.00	0.01	
2	-0.02	0.31	0.04	-0.07	-0.13	-0.13	0.78	0.33	0.41	0.16	0.00	0.02	
3	-0.03	0.32	0.01	-0.07	-0.13	-0.13	0.79	0.48	0.40	0.16	0.00	0.06	
4	-0.03	0.25	0.00	-0.08	-0.13	-0.13	0.75	0.49	0.38	0.14	-0.01	0.06	
5	-0.03	0.23	0.00	-0.08	-0.13	-0.13	1.88	0.42	0.36	0.14	-0.01	0.06	
6	-0.04	0.19	0.00	-0.08	-0.13	-0.13	2.41	0.40	0.35	0.14	-0.01	0.03	
7	-0.04	0.17	-0.01	-0.08	-0.13	-0.13	1.60	0.40	0.35	0.13	-0.01	0.12	
8	-0.05	0.14	0.00	-0.08	-0.13	-0.13	1.20	0.39	0.33	0.13	-0.01	0.10	
9	-0.05	0.12	0.00	-0.07	-0.13	-0.13	1.26	0.37	0.32	0.12	-0.01	0.10	
10	-0.05	0.11	0.00	-0.07	-0.13	-0.13	1.16	0.37	0.30	0.11	0.00	0.09	
11	-0.05	0.16	-0.01	-0.08	-0.13	-0.13	1.16	0.38	0.29	0.11	-0.01	0.08	
12	-0.05	0.10	-0.01	-0.09	-0.13	-0.13	0.94	0.41	0.27	0.14	-0.01	0.07	
13	-0.05	0.09	-0.01	-0.10	-0.13	-0.13	0.81	0.73	0.25	0.10	-0.01	0.05	
14	-0.05	0.08	-0.01	-0.13	-0.13	-0.13	0.72	0.99	0.26	0.10	-0.01	0.04	
15	-0.05	0.08	-0.01	-0.13	-0.13	-0.11	0.67	0.99	0.24	0.09	-0.01	0.04	
16	0.02	0.07	0.00	-0.13	-0.13	0.02	0.64	0.87	0.23	0.08	-0.01	0.03	
17	-0.02	0.07	0.00	-0.13	-0.13	0.00	0.62	0.79	0.23	0.07	-0.01	0.03	
18	0.02	0.07	0.00	-0.13	-0.13	0.19	0.56	0.72	0.23	0.07	-0.01	0.02	
19	0.00	0.07	-0.01	-0.13	-0.13	0.92	0.50	0.74	0.22	0.08	0.00	0.01	
20	0.00	0.05	-0.02	-0.13	-0.13	1.08	0.40	0.78	0.20	0.06	0.03	-0.02	
21	0.00	0.04	-0.02	-0.13	-0.13	0.78	0.41	0.77	0.19	0.06	0.03	-0.04	
22	0.00	0.03	-0.03	-0.13	-0.13	1.42	0.38	0.75	0.19	0.04	0.02	-0.04	
23	-0.01	0.03	-0.04	-0.13	-0.13	1.36	0.35	0.71	0.19	0.03	0.01	-0.04	
24	0.01	0.02	-0.04	-0.13	-0.13	0.87	0.42	0.64	0.19	0.01	0.01	-0.04	
25	0.00	0.01	-0.04	-0.13	-0.13	0.63	0.55	0.60	0.18	0.00	0.02	-0.04	
26	-0.01	0.01	-0.04	-0.13	-0.13	0.51	0.48	0.55	0.18	0.00	0.02	-0.05	
27	0.01	0.00	-0.05	-0.13	-0.13	0.56	0.43	0.52	0.19	0.00	0.01	-0.05	
28	0.02	0.03	-0.05	-0.13	-0.13	0.86	0.37	0.50	0.18	0.00	0.01	-0.05	
29	0.08	0.02	-0.05	-0.13	-0.13	0.77	0.34	0.48	0.18	0.00	0.01	-0.05	
30	0.13	0.00	-0.04	-0.13	-0.13	0.62	0.32	0.46	0.17	0.00		-0.05	
31		0.00		-0.13	-0.13		0.30		0.17	0.00		-0.05	
MEAN	-0.01	0.10	-0.01	-0.11	-0.13	0.29	0.77	0.58	0.26	0.08	0.00	0.02	
MAX	0.13	0.32	0.04	-0.07	-0.13	1.42	2.41	0.99	0.44	0.16	0.03	0.12	2.41
MIN	-0.05	0.00	-0.05	-0.13	-0.13	-0.13	0.30	0.29	0.17	0.00	-0.01	-0.05	-0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.50 M (A.D), AT 12.00 HOURS, ON OCT 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.12 M (A.D)
LEFT BANK ELEVATION 4.41 M (A.D)
RIGHT BANK ELEVATION 3.85 M (A.D), DRAINAGE AREA 607 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.063	1.080	0.070	0.021	0.000	0.000	3.900	1.440	2.620	0.700	0.070	0.103	
2	0.056	1.580	0.202	0.021	0.000	0.000	5.700	1.740	2.380	0.700	0.070	0.136	
3	0.049	1.660	0.103	0.021	0.000	0.000	5.800	2.940	2.300	0.700	0.070	0.268	
4	0.049	1.200	0.070	0.014	0.000	0.000	5.400	3.020	2.140	0.600	0.063	0.268	
5	0.049	1.080	0.070	0.014	0.000	0.000	21.790	2.460	1.980	0.600	0.063	0.268	
6	0.042	0.850	0.070	0.014	0.000	0.000	34.580	2.300	1.900	0.600	0.063	0.169	
7	0.042	0.750	0.063	0.014	0.000	0.000	16.550	2.300	1.900	0.550	0.063	0.500	
8	0.035	0.600	0.070	0.014	0.000	0.000	10.550	2.220	1.740	0.550	0.063	0.400	
9	0.035	0.500	0.070	0.021	0.000	0.000	11.360	2.060	1.660	0.500	0.063	0.400	
10	0.035	0.450	0.070	0.021	0.000	0.000	10.030	2.060	1.500	0.450	0.070	0.367	
11	0.035	0.700	0.063	0.014	0.000	0.000	10.030	2.140	1.440	0.450	0.063	0.334	
12	0.035	0.400	0.063	0.007	0.000	0.000	7.340	2.380	1.320	0.600	0.063	0.301	
13	0.035	0.367	0.063	0.000	0.000	0.000	6.000	5.200	1.200	0.400	0.063	0.235	
14	0.035	0.334	0.063	0.000	0.000	0.000	5.100	7.890	1.260	0.400	0.063	0.202	
15	0.035	0.334	0.063	0.000	0.000	0.000	4.600	7.890	1.140	0.367	0.063	0.202	
16	0.136	0.301	0.069	0.000	0.000	0.136	4.300	6.600	1.080	0.334	0.063	0.169	
17	0.056	0.301	0.070	0.000	0.000	0.070	4.100	5.800	1.080	0.301	0.063	0.169	
18	0.136	0.301	0.070	0.000	0.000	0.850	3.580	5.100	1.080	0.301	0.063	0.136	
19	0.070	0.301	0.063	0.000	0.000	7.120	3.100	5.300	1.020	0.334	0.070	0.103	
20	0.070	0.235	0.056	0.000	0.000	9.000	2.300	5.700	0.900	0.268	0.169	0.056	
21	0.070	0.202	0.056	0.000	0.000	5.700	2.380	5.600	0.850	0.268	0.169	0.042	
22	0.070	0.169	0.049	0.000	0.000	13.660	2.140	5.400	0.850	0.202	0.136	0.042	
23	0.063	0.169	0.042	0.000	0.000	12.770	1.900	5.000	0.850	0.169	0.103	0.042	
24	0.103	0.136	0.042	0.000	0.000	6.600	2.460	4.300	0.850	0.103	0.103	0.042	
25	0.070	0.103	0.042	0.000	0.000	4.200	3.500	3.900	0.800	0.070	0.136	0.042	
26	0.063	0.103	0.042	0.000	0.000	3.180	2.940	3.500	0.800	0.070	0.136	0.035	
27	0.103	0.070	0.035	0.000	0.000	3.580	2.540	3.260	0.850	0.070	0.103	0.035	
28	0.136	0.169	0.035	0.000	0.000	6.500	2.060	3.100	0.800	0.070	0.103	0.035	
29	0.334	0.136	0.035	0.000	0.000	5.600	1.820	2.940	0.800	0.070	0.103	0.035	
30	0.550	0.070	0.042	0.000	0.000	4.100	1.660	2.780	0.750	0.070		0.035	
31		0.070		0.000	0.000		1.500		0.750	0.070		0.035	
TOTAL	2.660	14.721	1.921	0.196	0.000	83.066	201.010	116.320	40.590	10.937	2.493	5.206	479.120 CMSDAY
MEAN	0.089	0.475	0.064	0.006	0.000	2.769	6.484	3.877	1.309	0.353	0.086	0.168	1.309 CMS
MAX	0.550	1.660	0.202	0.021	0.000	13.660	34.580	7.890	2.620	0.700	0.169	0.500	34.580 CMS
MIN	0.035	0.070	0.035	0.000	0.000	0.000	1.500	1.440	0.750	0.070	0.063	0.035	0.000 CMS
RUNOFF	0.230	1.272	0.166	0.017	0.000	7.177	17.367	10.050	3.507	0.945	0.215	0.450	41.396 MCM

MOMENTARY PEAK 37.10 CMS, AT 2.50 M (A.D), AT 12.00 HOURS, ON OCT 6, 1987

RUNOFF YIELD 2.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 61.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAKHON NAYOK RIVER BASIN

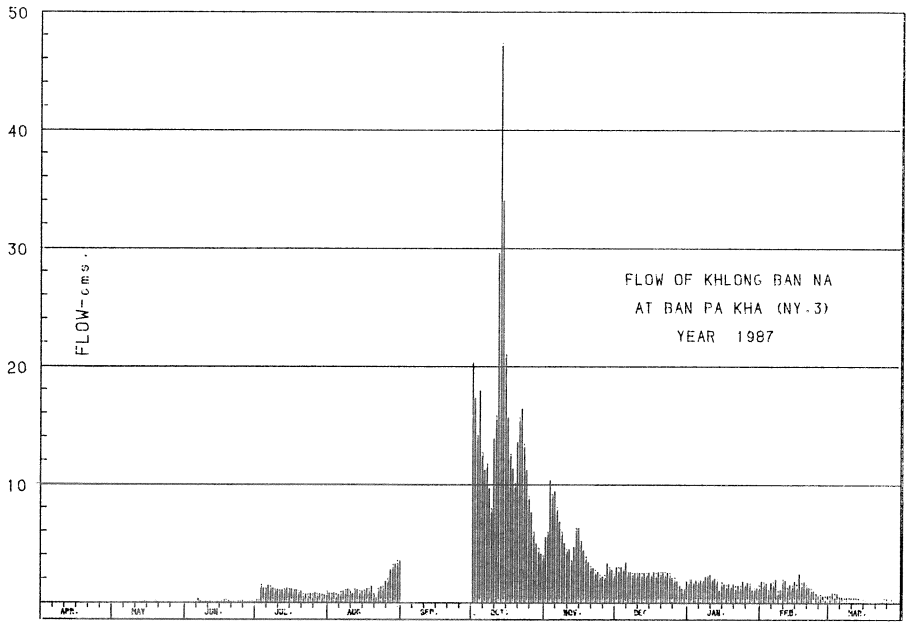
KHLONG BAN NA AT BAN PA KHA, NAKHON NAYOK (NY.3)

LOCATION	LAT. 14°-17'-07" N., LONG. 101°-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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.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 - 1978, 1980.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 - 1978, 1980.
STABILITY OF CHANNEL REGIME	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. NO RECORDS ON SEPT.1-30,1987. STAGE-DISCHARGE RELATION DEFINED BY 65 DISCHARGE MEASUREMENTS MADE DURING 1977-1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.51	0.49	0.65	0.79	*******	2.51	1.43	1.15	1.02	1.00	0.75	
2	0.50	0.50	0.49	0.65	0.79	*******	2.32	1.47	1.15	1.02	0.99	0.80	
3	0.49	0.50	0.49	0.95	0.80	*******	2.11	1.84	1.15	1.02	0.97	0.80	
4	0.49	0.50	0.50	0.90	0.78	*******	2.36	1.75	1.16	1.01	0.87	0.78	
5	0.49	0.52	0.54	0.90	0.76	*******	2.01	1.77	1.20	1.02	0.98	0.72	
6	0.46	0.58	0.66	0.94	0.83	*******	1.90	1.66	1.10	1.01	0.99	0.71	
7	0.45	0.60	0.59	0.93	0.84	*******	1.94	1.55	1.10	1.04	1.02	0.70	
8	0.45	0.58	0.59	0.90	0.87	*******	1.79	1.47	1.09	1.05	0.85	0.70	
9	0.45	0.54	0.59	0.88	0.88	*******	1.65	1.38	1.09	1.09	0.87	0.70	
10	0.43	0.54	0.59	0.87	0.86	*******	2.09	1.33	1.09	1.07	1.02	0.70	
11	0.43	0.57	0.58	0.86	0.78	*******	2.22	1.33	1.09	1.05	1.01	0.70	
12	0.43	0.58	0.58	0.86	0.89	*******	3.03	1.22	1.09	1.03	0.91	0.70	
13	0.46	0.58	0.58	0.89	0.86	*******	3.86	1.35	1.09	1.03	0.95	0.69	
14	0.48	0.60	0.59	0.90	0.85	*******	3.25	1.50	1.09	0.85	0.95	0.67	
15	0.50	0.57	0.60	0.89	0.84	*******	2.55	1.50	1.09	0.99	1.00	0.66	
16	0.53	0.53	0.61	0.88	0.87	*******	2.21	1.40	1.10	0.96	0.96	0.65	
17	0.54	0.54	0.64	0.87	0.89	*******	2.00	1.32	1.10	0.95	1.08	0.64	
18	0.53	0.54	0.64	0.86	0.89	*******	1.91	1.26	1.09	0.96	0.98	0.62	
19	0.52	0.51	0.61	0.85	0.93	*******	1.82	1.20	1.10	0.96	0.99	0.60	
20	0.51	0.52	0.61	0.84	0.78	*******	2.07	1.16	1.10	0.96	0.96	0.59	
21	0.52	0.54	0.60	0.78	0.69	*******	2.21	1.14	1.10	0.94	0.91	0.58	
22	0.52	0.53	0.60	0.77	0.90	*******	2.26	1.12	1.10	0.94	0.90	0.59	
23	0.52	0.52	0.60	0.78	0.92	*******	2.06	1.10	1.09	0.94	0.84	0.64	
24	0.52	0.50	0.61	0.78	0.93	*******	1.90	1.07	1.09	1.00	0.79	0.68	
25	0.52	0.48	0.61	0.78	1.00	*******	1.74	1.05	1.04	0.99	0.74	0.67	
26	0.52	0.47	0.61	0.80	1.03	*******	1.62	1.07	1.04	0.98	0.77	0.67	
27	0.51	0.47	0.61	0.79	1.12	*******	1.47	1.19	1.00	0.98	0.73	0.66	
28	0.51	0.47	0.61	0.78	1.18	*******	1.38	1.15	1.00	0.86	0.74	0.63	
29	0.51	0.48	0.61	0.77	1.18	*******	1.34	1.12	0.89	0.91	0.74	0.61	
30	0.51	0.49	0.61	0.75	1.22	*******	1.29	1.08	0.89	0.90		0.60	
31		0.48		0.84	1.22		1.27		1.00	0.95		0.58	
MEAN	0.49	0.53	0.59	0.84	0.91	*******	2.07	1.33	1.08	0.98	0.91	0.67	
MAX	0.54	0.60	0.66	0.95	1.22	*******	3.86	1.84	1.20	1.09	1.08	0.80	3.86
MIN	0.43	0.47	0.49	0.65	0.69	*******	1.27	1.05	0.89	0.85	0.73	0.58	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.03 M (A.D), AT 15.00 HOURS, ON OCT 13, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.22 M (A.D)
LEFT BANK ELEVATION 6.75 M (A.D)
RIGHT BANK ELEVATION 6.73 M (A.D), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.01	0.00	0.25	0.76	*******	20.36	5.53	3.00	1.96	1.80	0.60	
2	0.00	0.00	0.00	0.25	0.76	*******	17.32	5.97	3.00	1.96	1.74	0.80	
3	0.00	0.00	0.00	1.50	0.80	*******	14.15	10.36	3.00	1.96	1.62	0.80	
4	0.00	0.00	0.00	1.20	0.72	*******	17.96	9.15	3.08	1.88	1.08	0.72	
5	0.00	0.02	0.04	1.20	0.64	*******	12.74	9.41	3.40	1.96	1.68	0.48	
6	0.00	0.08	0.28	1.44	0.92	*******	11.20	8.06	2.60	1.88	1.74	0.44	
7	0.00	0.10	0.09	1.38	0.96	*******	11.76	6.85	2.60	2.12	1.96	0.40	
8	0.00	0.08	0.09	1.20	1.08	*******	9.67	5.97	2.52	2.20	1.00	0.40	
9	0.00	0.04	0.09	1.12	1.12	*******	7.95	5.00	2.52	2.52	1.08	0.40	
10	0.00	0.04	0.09	1.08	1.04	*******	13.86	4.50	2.52	2.36	1.96	0.40	
11	0.00	0.07	0.08	1.04	0.72	*******	15.80	4.50	2.52	2.20	1.88	0.40	
12	0.00	0.08	0.08	1.04	1.16	*******	29.60	3.56	2.52	2.04	1.26	0.40	
13	0.00	0.08	0.08	1.16	1.04	*******	47.38	4.70	2.52	2.04	1.50	0.37	
14	0.00	0.10	0.09	1.20	1.00	*******	34.00	6.30	2.52	1.00	1.50	0.31	
15	0.00	0.07	0.10	1.16	0.96	*******	21.00	6.30	2.52	1.74	1.80	0.28	
16	0.03	0.03	0.13	1.12	1.08	*******	15.65	5.20	2.60	1.56	1.56	0.25	
17	0.04	0.04	0.22	1.08	1.16	*******	12.60	4.40	2.60	1.50	2.44	0.22	
18	0.03	0.04	0.22	1.04	1.16	*******	11.34	3.88	2.52	1.56	1.68	0.16	
19	0.02	0.01	0.13	1.00	1.38	*******	10.08	3.40	2.60	1.56	1.74	0.10	
20	0.01	0.02	0.13	0.96	0.72	*******	13.58	3.08	2.60	1.56	1.56	0.09	
21	0.02	0.04	0.10	0.72	0.37	*******	15.65	2.92	2.60	1.44	1.26	0.08	
22	0.02	0.03	0.10	0.68	1.20	*******	16.40	2.76	2.60	1.44	1.20	0.09	
23	0.02	0.02	0.10	0.72	1.32	*******	13.44	2.60	2.52	1.44	0.96	0.22	
24	0.02	0.00	0.13	0.72	1.38	*******	11.20	2.36	2.52	1.80	0.76	0.34	
25	0.02	0.00	0.13	0.72	1.80	*******	9.02	2.20	2.12	1.74	0.56	0.31	
26	0.02	0.00	0.13	0.80	2.04	*******	7.62	2.36	2.12	1.68	0.68	0.31	
27	0.01	0.00	0.13	0.76	2.76	*******	5.97	3.32	1.80	1.68	0.52	0.28	
28	0.01	0.00	0.13	0.72	3.24	*******	5.00	3.00	1.80	1.04	0.56	0.19	
29	0.01	0.00	0.13	0.68	3.24	*******	4.60	2.76	1.16	1.26	0.56	0.13	
30	0.01	0.00	0.13	0.60	3.56	*******	4.12	2.44	1.16	1.20		0.10	
31		0.00		0.96	3.56		3.96		1.80	1.50		0.08	
TOTAL	0.29	1.00	3.15	29.50	43.65	*******	444.98	142.84	75.96	53.78	39.64	10.15	******** CMSDAY
MEAN	0.01	0.03	0.11	0.95	1.41	*******	14.35	4.76	2.45	1.73	1.37	0.33	******** CMS
MAX	0.04	0.10	0.28	1.50	3.56	*******	47.38	10.36	3.40	2.52	2.44	0.80	47.38 CMS
MIN	0.00	0.00	0.00	0.25	0.37	*******	3.96	2.20	1.16	1.00	0.52	0.08	******** CMS
RUNOFF	0.025	0.086	0.272	2.549	3.771	*******	38.446	12.341	6.563	4.647	3.425	0.877	******** MCM

MOMENTARY PEAK 51.32 CMS, AT 4.03 M (A.D), AT 15.00 HOURS, ON OCT 13, 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 252.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

NAKHON NAYOK RIVER BASIN

KHLONG SAMO PUN AT PRACHIN BURI, PRACHIN BURI (NY.4)

LOCATION — LAT. 14-17-23 N., LONG. 101-24-16 E., ON LEFT BANK AT THE BRIDGE OF CHANTHABURI-KHAO YAI HIGHWAY, AMPHOE MUANG, PRACHIN BURI.

DRAINAGE AREA — 128 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +6.425 M.(A.D.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1986 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1986 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1986 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

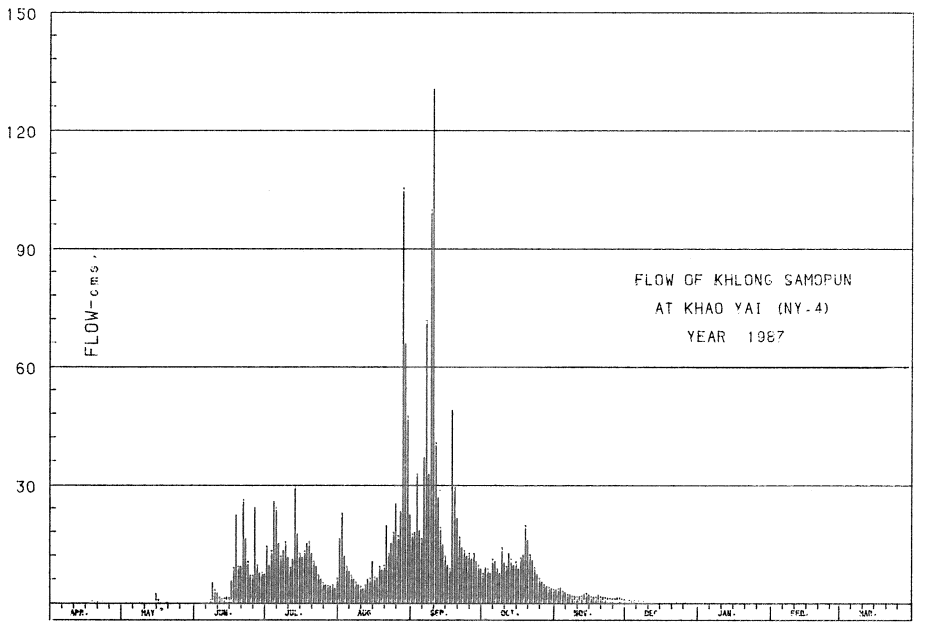
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 34 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.36	0.36	1.19	1.24	1.27	0.98	0.78	0.53	0.39	0.32	0.30	
2	0.35	0.36	0.35	1.05	1.39	1.28	1.03	0.80	0.52	0.39	0.32	0.30	
3	0.35	0.35	0.35	1.16	1.12	1.58	1.02	0.81	0.52	0.38	0.32	0.30	
4	0.34	0.35	0.36	1.45	1.04	1.29	0.98	0.76	0.52	0.38	0.32	0.30	
5	0.33	0.36	0.38	1.42	1.00	1.24	1.10	0.73	0.52	0.38	0.32	0.30	
6	0.31	0.38	0.45	1.21	0.96	1.65	1.08	0.70	0.51	0.38	0.32	0.30	
7	0.31	0.40	0.54	1.12	0.92	2.12	1.02	0.69	0.49	0.38	0.32	0.30	
8	0.30	0.44	0.88	1.16	0.89	1.58	0.98	0.66	0.49	0.38	0.31	0.30	
9	0.30	0.42	0.78	1.22	0.85	2.41	1.18	0.65	0.49	0.38	0.30	0.30	
10	0.37	0.41	0.72	1.11	0.83	2.67	1.07	0.64	0.49	0.37	0.34	0.30	
11	0.37	0.42	0.62	1.03	0.79	1.71	1.04	0.64	0.48	0.37	0.37	0.30	
12	0.37	0.41	0.57	1.10	0.85	1.47	1.14	0.66	0.48	0.37	0.37	0.30	
13	0.37	0.40	0.60	1.53	0.92	1.31	1.10	0.70	0.48	0.37	0.37	0.30	
14	0.35	0.51	0.62	1.27	0.93	1.20	1.05	0.72	0.47	0.36	0.36	0.30	
15	0.37	0.71	0.61	1.14	1.08	1.12	1.08	0.68	0.47	0.36	0.34	0.30	
16	0.38	0.54	0.90	1.11	0.94	1.05	1.02	0.64	0.46	0.36	0.33	0.29	
17	0.42	0.48	1.03	1.16	0.93	1.02	1.11	0.63	0.45	0.35	0.32	0.29	
18	0.48	0.44	1.38	1.21	1.04	1.83	1.13	0.63	0.45	0.35	0.34	0.28	
19	0.46	0.42	1.04	1.22	1.01	1.52	1.32	0.68	0.45	0.35	0.36	0.28	
20	0.42	0.41	1.04	1.14	1.05	1.36	1.23	0.64	0.44	0.35	0.36	0.28	
21	0.43	0.40	1.46	1.08	1.32	1.25	1.13	0.62	0.43	0.34	0.36	0.27	
22	0.46	0.38	1.24	1.04	1.14	1.18	1.09	0.62	0.42	0.34	0.35	0.27	
23	0.41	0.37	1.08	0.96	1.21	1.16	1.03	0.60	0.42	0.34	0.34	0.27	
24	0.38	0.37	0.96	0.92	1.28	1.12	0.97	0.60	0.42	0.34	0.34	0.27	
25	0.36	0.36	0.96	0.88	1.44	1.14	0.93	0.58	0.41	0.33	0.33	0.26	
26	0.34	0.36	1.42	0.85	1.26	1.10	0.89	0.58	0.40	0.33	0.33	0.26	
27	0.33	0.35	1.05	0.84	1.40	1.14	0.86	0.61	0.40	0.33	0.32	0.26	
28	0.32	0.34	0.98	0.83	2.46	1.08	0.83	0.61	0.40	0.33	0.32	0.25	
29	0.33	0.37	0.99	0.85	2.05	1.05	0.82	0.57	0.39	0.32	0.31	0.25	
30	0.35	0.37	0.97	0.80	1.81	1.02	0.80	0.55	0.39	0.32		0.25	
31		0.36		0.93	1.38		0.79		0.39	0.32		0.25	
MEAN	0.37	0.41	0.82	1.10	1.18	1.40	1.03	0.66	0.46	0.36	0.33	0.28	
MAX	0.48	0.71	1.46	1.53	2.46	2.67	1.32	0.81	0.53	0.39	0.37	0.30	2.67
MIN	0.30	0.34	0.35	0.80	0.79	1.02	0.79	0.55	0.39	0.32	0.30	0.25	0.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.69 M (A.D), AT 22.00 HOURS, ON SEP 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.52 M (A.D)
LEFT BANK ELEVATION 6.78 M (A.D)
RIGHT BANK ELEVATION 8.02 M (A.D), DRAINAGE AREA 128 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	0.12	0.12	14.44	16.40	17.60	7.60	3.42	0.81	0.18	0.04	0.00	
2	0.10	0.12	0.10	9.65	22.85	18.00	9.03	3.70	0.74	0.18	0.04	0.00	
3	0.10	0.10	0.10	13.36	11.92	32.78	8.72	3.89	0.74	0.16	0.04	0.00	
4	0.08	0.10	0.12	25.80	9.34	18.40	7.60	3.14	0.74	0.16	0.04	0.00	
5	0.06	0.12	0.16	24.30	8.10	16.40	11.20	2.72	0.74	0.16	0.04	0.00	
6	0.02	0.16	0.40	15.20	7.10	37.00	10.58	2.30	0.67	0.16	0.04	0.00	
7	0.02	0.20	0.88	11.92	6.10	71.78	8.72	2.20	0.56	0.16	0.04	0.00	
8	0.00	0.36	5.22	13.36	5.41	32.78	7.60	1.90	0.56	0.16	0.02	0.00	
9	0.00	0.28	3.42	15.60	4.65	99.81	14.08	1.80	0.56	0.16	0.00	0.00	
10	0.14	0.24	2.58	11.56	4.27	130.52	10.27	1.70	0.56	0.14	0.08	0.00	
11	0.14	0.28	1.50	9.03	3.56	40.77	9.34	1.70	0.52	0.14	0.14	0.00	
12	0.14	0.24	1.09	11.20	4.65	26.80	12.64	1.90	0.52	0.14	0.14	0.00	
13	0.14	0.20	1.30	29.98	6.10	19.25	11.20	2.30	0.52	0.14	0.14	0.00	
14	0.10	0.67	1.50	17.60	6.35	14.80	9.65	2.58	0.48	0.12	0.12	0.00	
15	0.14	2.44	1.40	12.64	10.58	11.92	10.58	2.10	0.48	0.12	0.08	0.00	
16	0.16	0.88	5.60	11.56	6.60	9.65	8.72	1.70	0.44	0.12	0.06	0.00	
17	0.28	0.52	9.03	13.36	6.35	8.72	11.56	1.60	0.40	0.10	0.04	0.00	
18	0.52	0.36	22.40	15.20	9.34	48.96	12.28	1.60	0.40	0.10	0.08	0.00	
19	0.44	0.28	9.34	15.60	8.41	29.42	19.70	2.10	0.40	0.10	0.12	0.00	
20	0.28	0.24	9.34	12.64	9.65	21.50	16.00	1.70	0.36	0.10	0.12	0.00	
21	0.32	0.20	26.30	10.58	19.70	16.80	12.28	1.50	0.32	0.08	0.12	0.00	
22	0.44	0.16	16.40	9.34	12.64	14.08	10.89	1.50	0.28	0.08	0.10	0.00	
23	0.24	0.14	10.58	7.10	15.20	13.36	9.03	1.30	0.28	0.08	0.08	0.00	
24	0.16	0.14	7.10	6.10	18.00	11.92	7.35	1.30	0.28	0.08	0.08	0.00	
25	0.12	0.12	7.10	5.22	25.30	12.64	6.35	1.16	0.24	0.06	0.06	0.00	
26	0.08	0.12	24.30	4.65	17.20	11.20	5.41	1.16	0.20	0.06	0.06	0.00	
27	0.06	0.10	9.65	4.46	23.30	12.64	4.84	1.40	0.20	0.06	0.04	0.00	
28	0.04	0.08	7.60	4.27	105.36	10.58	4.27	1.40	0.20	0.06	0.04	0.00	
29	0.06	0.14	7.85	4.65	65.85	9.65	4.08	1.09	0.18	0.04	0.02	0.00	
30	0.10	0.14	7.35	3.70	47.52	8.72	3.70	0.95	0.18	0.04		0.00	
31		0.12		6.35	22.40		3.56		0.18	0.04		0.00	
TOTAL	4.60	9.37	199.83	370.42	540.20	828.45	288.83	58.81	13.74	3.48	2.02	0.00	2319.75 CMSDAY
MEAN	0.15	0.30	6.66	11.95	17.43	27.61	9.32	1.96	0.44	0.11	0.07	0.00	6.34 CMS
MAX	0.52	2.44	26.30	29.98	105.36	130.52	19.70	3.89	0.81	0.18	0.14	0.00	130.52 CMS
MIN	0.00	0.08	0.10	3.70	3.56	8.72	3.56	0.95	0.18	0.04	0.00	0.00	0.00 CMS
RUNOFF	0.397	0.810	17.265	32.004	46.673	71.578	24.955	5.081	1.187	0.301	0.175	0.000	200.426 MCM

MOMENTARY PEAK 300.00 CMS, AT 3.69 M (A.D), AT 22.00 HOURS, ON SEP 9, 1987
RUNOFF YIELD 49.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2343.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

UAKHON NAYOK RIVER BASIN

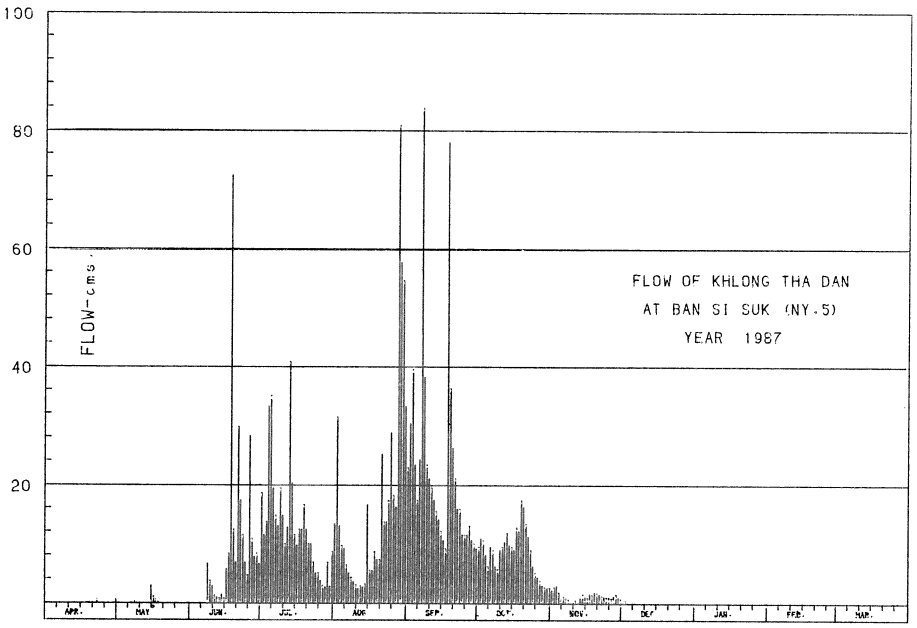
KHLONG THA DAN AT BAN SI SUK, NAKHON NAYOK (NY.5)

LOCATION	LAT. 14°-18'-30" N., LONG. 101°-20'-00" E., ON LEFT BANK ABOUT 350 METERS DOWNSTREAM FROM KHLONG THA DAN WEIR, AMPHOE MUANG, NAKHON NAYOK.
DRAINAGE AREA	186 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+33.52 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ALONG THE MEASURING LINE.
ELEVATION	+37.535 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	1986 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 80 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	33.83	33.99	33.89	34.94	34.80	35.04	34.67	34.31	34.13	33.94	33.84	33.79	
2	33.82	33.87	33.79	34.74	35.21	35.19	34.72	34.35	34.09	33.94	33.84	33.80	
3	33.81	33.85	33.86	34.81	34.79	35.34	34.71	34.36	34.07	33.94	33.85	33.79	
4	33.80	33.84	33.95	35.24	34.68	35.05	34.62	34.28	34.07	33.93	33.86	33.80	
5	33.79	33.94	33.99	35.27	34.66	34.91	34.54	34.14	34.05	33.93	33.87	33.82	
6	33.76	33.94	34.02	34.96	34.55	35.07	34.67	34.21	34.02	33.92	33.88	33.93	
7	33.77	33.96	34.13	34.84	34.49	35.88	34.65	34.17	33.98	33.91	33.83	33.87	
8	33.75	34.07	34.56	34.79	34.45	35.32	34.54	34.14	33.97	33.90	33.82	33.83	
9	33.75	34.02	34.42	34.96	34.41	35.05	34.52	34.10	33.97	33.89	33.81	33.81	
10	33.75	34.01	34.36	34.84	34.38	35.00	34.65	34.02	33.96	33.88	33.81	33.79	
11	33.75	34.01	34.23	34.69	34.33	34.96	34.67	34.11	33.96	33.88	33.92	33.78	
12	33.75	34.01	34.19	34.78	34.37	34.91	34.70	33.54	33.95	33.87	33.93	33.77	
13	33.75	33.95	34.17	35.36	34.35	34.86	34.75	34.17	33.92	33.87	33.92	33.77	
14	33.76	33.99	34.24	34.98	34.39	34.82	34.68	34.25	33.90	33.87	33.91	33.77	
15	33.81	34.37	34.17	34.74	34.89	34.76	34.67	34.20	33.97	33.87	33.89	33.76	
16	33.94	34.21	34.52	34.68	34.51	34.71	34.65	34.19	34.04	33.87	33.90	33.76	
17	33.94	34.13	34.63	34.77	34.51	34.66	34.78	34.25	34.04	33.87	33.87	33.76	
18	34.00	34.03	35.76	34.77	34.64	35.82	34.76	34.24	34.04	33.86	33.88	33.76	
19	34.05	33.99	34.77	34.89	34.59	35.29	34.91	34.28	34.03	33.85	33.87	33.76	
20	33.99	33.97	34.57	34.77	34.59	35.11	34.88	34.27	34.01	33.83	33.89	33.76	
21	33.95	33.93	35.18	34.69	35.09	35.00	34.80	34.24	33.99	33.81	33.91	33.76	
22	34.16	33.92	34.91	34.69	34.81	34.87	34.73	34.22	33.98	33.80	33.88	33.76	
23	34.00	33.92	34.74	34.57	34.81	34.87	34.65	34.20	33.97	33.78	33.86	33.76	
24	33.92	33.90	34.57	34.49	34.91	34.74	34.54	34.20	33.98	33.78	33.84	33.78	
25	33.90	33.91	34.47	34.49	35.16	34.74	34.49	34.19	33.99	33.80	33.84	33.85	
26	33.87	33.93	35.15	34.42	34.93	34.74	34.45	34.17	33.98	33.82	33.84	33.84	
27	33.84	33.91	34.72	34.37	34.88	34.79	34.42	34.21	33.98	33.82	33.85	33.80	
28	33.82	33.86	34.61	34.35	35.85	34.71	34.37	34.25	33.97	33.82	33.83	33.78	
29	33.82	33.99	34.63	34.57	35.59	34.69	34.35	34.19	33.96	33.82	33.82	33.77	
30	34.15	33.97	34.56	34.36	35.55	34.66	34.34	34.15	33.95	33.82		33.77	
31		33.96		34.64	35.24		34.34		33.94	33.82		33.77	
MEAN	33.87	33.98	34.46	34.76	34.79	34.99	34.62	34.19	34.00	33.86	33.86	33.79	
MAX	34.16	34.37	35.76	35.36	35.85	35.88	34.91	34.36	34.13	33.94	33.93	33.93	35.88
MIN	33.75	33.84	33.79	34.35	34.33	34.66	34.34	33.54	33.90	33.78	33.81	33.76	33.54

ANNUAL MAX MOMENTARY GAGE HEIGHT 36.48 M (MSL), AT 6.00 HOURS, ON AUG 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 33.52 M (MSL), RIVER BED 33.19 M (MSL)
LEFT BANK ELEVATION 37.68 M (MSL)
RIGHT BANK ELEVATION 36.76 M (MSL), DRAINAGE AREA 186 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.09	0.00	18.64	13.40	22.94	9.49	2.14	0.58	0.04	0.00	0.00	
2	0.00	0.00	0.00	11.54	31.50	30.38	10.92	2.70	0.37	0.04	0.00	0.00	
3	0.00	0.00	0.00	13.76	13.09	39.54	10.61	2.84	0.31	0.04	0.00	0.00	
4	0.00	0.00	0.05	33.30	9.76	23.40	8.14	1.80	0.31	0.03	0.00	0.00	
5	0.00	0.04	0.09	35.10	9.22	17.41	6.22	0.64	0.25	0.03	0.00	0.00	
6	0.00	0.04	0.16	19.46	6.45	24.32	9.49	1.10	0.16	0.02	0.00	0.03	
7	0.00	0.06	0.58	14.84	5.11	83.86	8.95	0.82	0.08	0.01	0.00	0.00	
8	0.00	0.31	6.68	13.09	4.35	38.22	6.22	0.64	0.07	0.00	0.00	0.00	
9	0.00	0.16	3.78	19.46	3.59	23.40	5.76	0.40	0.07	0.00	0.00	0.00	
10	0.00	0.13	2.84	14.84	3.12	21.10	8.95	0.16	0.06	0.00	0.00	0.00	
11	0.00	0.13	1.30	10.03	2.42	19.46	9.49	0.46	0.06	0.00	0.02	0.00	
12	0.00	0.13	0.94	12.78	2.98	17.41	10.30	0.00	0.05	0.00	0.03	0.00	
13	0.00	0.05	0.82	40.86	2.70	15.56	11.85	0.82	0.02	0.00	0.02	0.00	
14	0.00	0.09	1.40	20.28	3.26	14.12	9.76	1.50	0.00	0.00	0.01	0.00	
15	0.00	2.98	0.82	11.54	16.64	12.16	9.49	1.00	0.07	0.00	0.00	0.00	
16	0.04	1.10	5.76	9.76	5.53	10.61	8.95	0.94	0.22	0.00	0.00	0.00	
17	0.04	0.58	8.41	12.47	5.53	9.22	12.78	1.50	0.22	0.00	0.00	0.00	
18	0.10	0.19	72.46	12.47	8.68	78.04	12.16	1.40	0.22	0.00	0.00	0.00	
19	0.25	0.09	12.47	16.64	7.37	36.30	17.41	1.80	0.19	0.00	0.00	0.00	
20	0.09	0.07	6.91	12.47	7.37	26.22	16.28	1.70	0.13	0.00	0.00	0.00	
21	0.05	0.03	29.86	10.03	25.24	21.10	13.40	1.40	0.09	0.00	0.01	0.00	
22	0.76	0.02	17.41	10.03	13.76	15.92	11.23	1.20	0.08	0.00	0.00	0.00	
23	0.10	0.02	11.54	6.91	13.76	15.92	8.95	1.00	0.07	0.00	0.00	0.00	
24	0.02	0.00	6.91	5.11	17.41	11.54	6.22	1.00	0.08	0.00	0.00	0.00	
25	0.00	0.01	4.73	5.11	28.82	11.54	5.11	0.94	0.09	0.00	0.00	0.00	
26	0.00	0.03	28.30	3.78	18.23	11.54	4.35	0.82	0.08	0.00	0.00	0.00	
27	0.00	0.01	10.92	2.98	16.28	13.09	3.78	1.10	0.08	0.00	0.00	0.00	
28	0.00	0.00	7.87	2.70	80.95	10.61	2.98	1.50	0.07	0.00	0.00	0.00	
29	0.00	0.09	8.41	6.91	57.72	10.03	2.70	0.94	0.06	0.00	0.00	0.00	
30	0.70	0.07	6.68	2.84	54.60	9.22	2.56	0.70	0.05	0.00		0.00	
31		0.06		8.68	33.30		2.56		0.04	0.00		0.00	
TOTAL	2.15	6.58	258.10	418.41	522.14	694.18	267.06	34.96	4.23	0.21	0.09	0.03	2208.14 CMSDAY
MEAN	0.07	0.21	8.60	13.50	16.84	23.14	8.61	1.17	0.14	0.01	0.00	0.00	6.03 CMS
MAX	0.76	2.98	72.46	40.86	80.95	83.86	17.41	2.84	0.58	0.04	0.03	0.03	83.86 CMS
MIN	0.00	0.00	0.00	2.70	2.42	9.22	2.56	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.186	0.569	22.300	36.151	45.113	59.977	23.074	3.021	0.365	0.018	0.008	0.003	190.783 MCM

MOMENTARY PEAK 161.62 CMS, AT 36.48 M (MSL), AT 6.00 HOURS, ON AUG 28, 1987

RUNOFF YIELD 32.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 868.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

LOPBURI RIVER BASIN

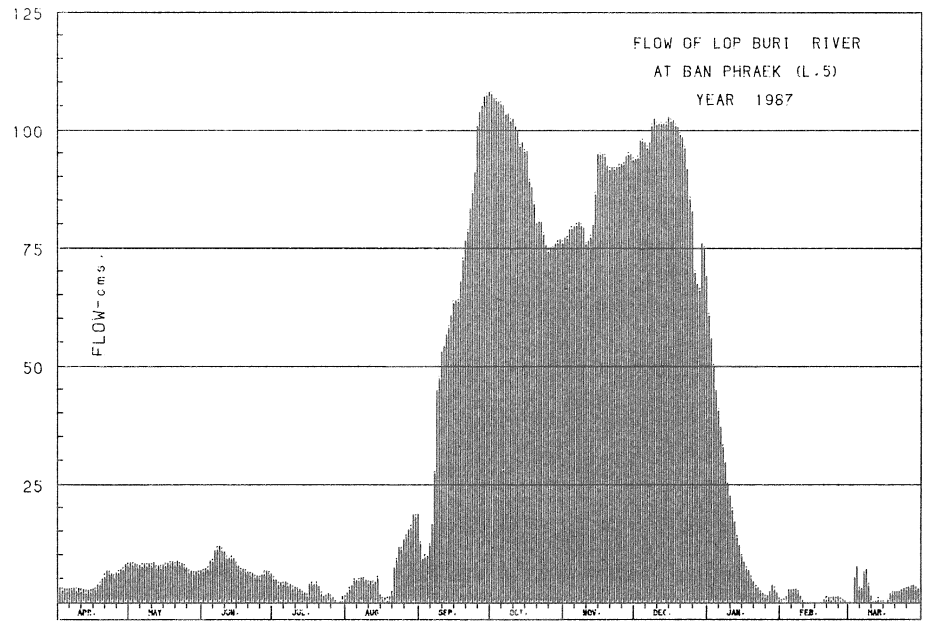
LOPBURI RIVER AT BAN PHRAEK, PHRA NAKHON SI AYUTTHAYA (L.5)

LOCATION	LAT. 14°-38'-40" N., LONG. 100°-34'-46" E., ON RIGHT BANK IN FRONT OF AMPHOE BAN PHRAEK OFFICE, AMPHOE BAN PHRAEK, PHRA NAKHON SI AYUTTHAYA.
DRAINAGE AREA	FLOOD PLAIN.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 32 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.750 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	1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1985 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1985 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 13 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.93	0.80	0.66	0.26	1.30	5.05	4.14	4.65	3.60	0.09	0.02	
2	0.39	0.93	0.82	0.59	0.41	0.99	5.01	4.15	4.67	3.40	0.10	0.00	
3	0.37	0.91	0.85	0.53	0.45	1.08	5.01	4.20	4.76	3.19	0.16	0.69	
4	0.36	0.89	0.96	0.52	0.61	1.05	4.99	4.22	4.77	2.96	0.34	0.85	
5	0.37	0.88	0.99	0.53	0.57	1.27	4.99	4.22	4.75	2.79	0.34	0.41	
6	0.38	0.91	1.15	0.54	0.62	1.54	4.97	4.24	4.73	2.60	0.35	0.37	
7	0.39	0.91	1.22	0.51	0.64	2.15	4.93	4.25	4.75	2.42	0.36	0.75	
8	0.39	0.91	1.23	0.48	0.64	2.96	4.92	4.24	4.86	2.24	0.32	0.80	
9	0.38	0.91	1.20	0.44	0.58	3.09	4.89	4.21	4.89	2.03	0.17	0.50	
10	0.37	0.91	1.13	0.41	0.56	3.29	4.89	4.11	4.87	1.89	0.06	0.18	
11	0.35	0.94	1.05	0.40	0.56	3.36	4.86	4.12	4.86	1.75	0.02	0.02	
12	0.33	0.87	1.01	0.36	0.56	3.43	4.82	4.16	4.87	1.57	0.02	0.04	
13	0.33	0.87	1.05	0.31	0.53	3.50	4.74	4.23	4.86	1.39	0.04	0.14	
14	0.35	0.88	1.01	0.26	0.67	3.58	4.75	4.45	4.87	1.24	0.01	0.06	
15	0.37	0.89	0.94	0.24	0.21	3.69	4.71	4.68	4.90	1.08	0.00	0.05	
16	0.39	0.92	0.87	0.48	0.15	3.69	4.70	4.69	4.89	0.94	0.00	0.01	
17	0.47	0.92	0.82	0.53	0.13	3.70	4.53	4.68	4.88	0.85	0.00	0.10	
18	0.53	0.95	0.81	0.47	0.15	3.83	4.48	4.68	4.86	0.78	0.00	0.23	
19	0.61	0.95	0.80	0.54	0.16	4.00	4.39	4.61	4.84	0.67	0.08	0.29	
20	0.72	0.93	0.76	0.43	0.30	4.12	4.24	4.60	4.81	0.54	0.16	0.29	
21	0.78	0.96	0.74	0.29	0.83	4.20	4.27	4.60	4.78	0.45	0.14	0.29	
22	0.77	0.93	0.73	0.17	1.01	4.34	4.25	4.60	4.73	0.40	0.14	0.30	
23	0.72	0.91	0.69	0.20	1.21	4.46	4.18	4.60	4.59	0.31	0.15	0.34	
24	0.70	0.89	0.68	0.25	1.21	4.57	4.09	4.62	4.42	0.24	0.15	0.37	
25	0.74	0.83	0.66	0.21	1.33	4.86	4.06	4.62	4.32	0.20	0.16	0.40	
26	0.78	0.79	0.70	0.14	1.40	4.93	4.07	4.63	3.91	0.18	0.13	0.41	
27	0.80	0.77	0.77	0.06	1.47	4.98	4.08	4.67	3.81	0.29	0.09	0.44	
28	0.84	0.76	0.77	0.04	1.53	5.02	4.10	4.69	3.78	0.46	0.05	0.46	
29	0.90	0.76	0.76	0.11	1.66	5.04	4.12	4.68	4.10	0.42	0.05	0.41	
30	0.92	0.77	0.72	0.17	1.66	5.05	4.13	4.66	4.08	0.26		0.36	
31		0.78		0.19	1.67		4.12		3.87	0.13		0.33	
MEAN	0.54	0.88	0.89	0.36	0.77	3.44	4.56	4.44	4.60	1.33	0.13	0.32	
MAX	0.92	0.96	1.23	0.66	1.67	5.05	5.05	4.69	4.90	3.60	0.36	0.85	5.05
MIN	0.33	0.76	0.66	0.04	0.13	0.99	4.06	4.11	3.78	0.13	0.00	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.05 M (A.D), AT 6.00 HOURS, ON SEP 30, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.83 M (A.D)
LEFT BANK ELEVATION 5.69 M (A.D)
RIGHT BANK ELEVATION 5.65 M (A.D), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.20	8.50	7.05	5.57	2.08	12.90	108.20	77.20	93.85	61.30	0.72	0.16	
2	3.12	8.50	7.27	4.91	3.29	9.19	106.76	77.50	94.55	55.90	0.80	0.00	
3	2.96	8.27	7.60	4.36	3.64	10.22	106.76	79.00	97.76	50.45	1.28	5.86	
4	2.88	8.04	8.84	4.26	5.09	9.87	106.04	79.62	98.12	44.92	2.72	7.60	
5	2.96	7.93	9.19	4.36	4.72	12.51	106.04	79.62	97.40	41.19	2.72	3.29	
6	3.04	8.27	11.02	4.45	5.19	16.58	105.32	80.24	96.68	37.20	2.80	2.96	
7	3.12	8.27	11.86	4.17	5.38	27.75	103.88	80.55	97.40	33.42	2.88	6.50	
8	3.12	8.27	11.99	3.90	5.38	44.92	103.52	80.24	101.36	29.64	2.56	7.05	
9	3.04	8.27	11.60	3.55	4.82	47.96	102.44	79.31	102.44	25.30	1.36	4.08	
10	2.96	8.27	10.80	3.29	4.63	53.04	102.44	76.30	101.72	22.62	0.48	1.44	
11	2.80	8.61	9.87	3.20	4.63	54.86	101.36	76.60	101.36	20.15	0.16	0.16	
12	2.64	7.82	9.42	2.88	4.63	56.71	99.92	77.80	101.72	17.09	0.16	0.32	
13	2.64	7.82	9.87	2.48	4.36	58.60	97.04	79.93	101.36	14.25	0.32	1.12	
14	2.80	7.93	9.42	2.08	5.67	60.76	97.40	86.90	101.72	12.12	0.08	0.48	
15	2.96	8.04	8.61	1.92	1.68	63.91	95.96	94.90	102.80	10.22	0.00	0.40	
16	3.12	8.38	7.82	3.90	1.20	63.91	95.60	95.25	102.44	8.61	0.00	0.08	
17	3.82	8.38	7.27	4.36	1.04	64.20	89.65	94.90	102.08	7.60	0.00	0.80	
18	4.36	8.72	7.16	3.82	1.20	67.97	87.92	94.90	101.36	6.83	0.00	1.84	
19	5.09	8.72	7.05	4.45	1.28	73.00	84.89	92.45	100.64	5.67	0.64	2.32	
20	6.17	8.50	6.61	3.46	2.40	76.60	80.24	92.10	99.56	4.45	1.28	2.32	
21	6.83	8.84	6.39	2.32	7.38	79.00	81.17	92.10	98.48	3.64	1.12	2.32	
22	6.72	8.50	6.28	1.36	9.42	83.34	80.55	92.10	96.68	3.20	1.12	2.40	
23	6.17	8.27	5.86	1.60	11.73	87.24	78.40	92.10	91.75	2.48	1.20	2.72	
24	5.95	8.04	5.76	2.00	11.73	91.05	75.70	92.80	85.88	1.92	1.20	2.96	
25	6.39	7.38	5.57	1.68	13.35	101.36	74.80	92.80	82.72	1.60	1.28	3.20	
26	6.83	6.94	5.95	1.12	14.40	103.88	75.10	93.15	70.30	1.44	1.04	3.29	
27	7.05	6.72	6.72	0.48	15.45	105.68	75.40	94.55	67.39	2.32	0.72	3.55	
28	7.49	6.61	6.72	0.32	16.41	107.12	76.00	95.25	66.52	3.73	0.40	3.73	
29	8.15	6.61	6.61	0.88	18.62	107.84	76.60	94.90	76.00	3.38	0.40	3.29	
30	8.38	6.72	6.17	1.36	18.62	108.20	76.90	94.20	75.40	2.08		2.88	
31		6.83		1.52	18.79		76.60		69.13	1.04		2.64	
TOTAL	136.76	246.97	242.35	90.01	228.21	1860.17	2828.60	2609.26	2876.57	535.76	29.44	81.76	11765.86 CMSDAY
MEAN	4.56	7.97	8.08	2.90	7.36	62.01	91.25	86.98	92.79	17.28	1.02	2.64	32.15 CMS
MAX	8.38	8.84	11.99	5.57	18.79	108.20	108.20	95.25	102.80	61.30	2.88	7.60	108.20 CMS
MIN	2.64	6.61	5.57	0.32	1.04	9.19	74.80	76.30	66.52	1.04	0.00	0.00	0.00 CMS
RUNOFF	11.816	21.338	20.939	7.777	19.717	160.719	244.391	225.440	248.536	46.290	2.544	7.064	1016.570 MCM

MOMENTARY PEAK 108.20 CMS, AT 5.05 M (A.D), AT 6.00 HOURS, ON SEP 30, 1987

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

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

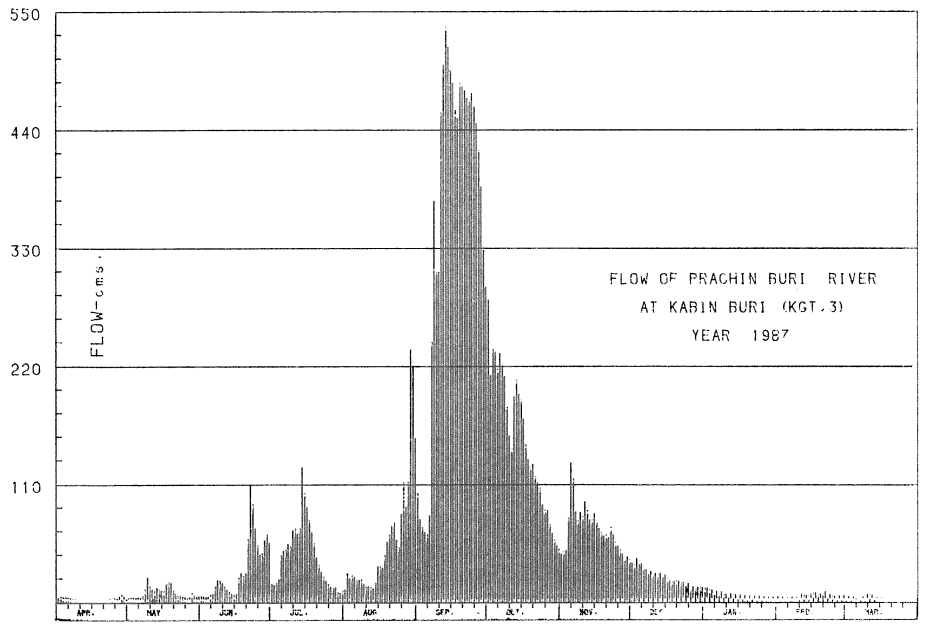
PRACHIN BURI RIVER AT KABIN BURI, PRACHIN BURI (KGT.3)

LOCATION	LAT. 13-59-05 N., LONG. 101-42-32 E., ON LEFT BANK INFRONT OF AMPHOE KABIN BURI OFFICE AND ABOUT 500 METERS DOWNSTREAM FROM THE CONFLUENCE OF LAM PRONG AND LAM HANUMAN, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	7,502 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	-0.49 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK INFRONT 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 REGIME'S	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.58	0.68	1.18	0.96	3.27	6.13	2.01	1.79	1.04	0.65	0.66	
2	0.65	0.61	0.66	1.14	1.50	2.79	5.17	2.06	1.76	1.04	0.61	0.66	
3	0.63	0.60	0.63	1.22	1.35	2.61	5.50	2.09	1.90	1.00	0.61	0.65	
4	0.63	0.59	0.64	1.33	1.44	2.51	5.47	2.81	1.86	0.96	0.61	0.62	
5	0.60	0.60	0.76	1.97	1.40	2.46	5.25	3.82	1.78	0.93	0.61	0.50	
6	0.58	0.59	0.78	2.09	1.28	2.86	5.45	3.53	1.71	0.91	0.61	0.47	
7	0.54	0.68	1.10	2.11	1.31	5.59	5.33	2.93	1.62	0.89	0.60	0.65	
8	0.53	1.00	1.31	2.25	1.33	7.19	5.16	2.75	1.61	0.87	0.61	0.63	
9	0.52	1.39	1.29	2.19	1.17	6.40	4.72	2.92	1.57	0.83	0.61	0.63	
10	0.50	1.11	1.21	2.55	1.08	6.40	4.27	2.84	1.52	0.78	0.69	0.77	
11	0.48	0.99	1.10	2.61	1.09	8.08	4.06	3.12	1.51	0.82	0.78	0.76	
12	0.48	0.93	0.98	2.48	1.07	8.53	4.87	2.95	1.51	0.80	0.71	0.73	
13	0.46	1.04	0.88	2.60	1.01	8.87	5.11	2.78	1.51	0.79	0.71	0.70	
14	0.46	0.99	0.80	3.74	1.22	8.69	4.91	2.77	1.50	0.77	0.71	0.61	
15	0.44	0.93	0.73	3.28	1.70	8.51	4.83	2.89	1.46	0.74	0.79	0.59	
16	0.55	0.95	0.78	3.02	1.69	8.36	4.54	2.76	1.39	0.73	0.82	0.57	
17	0.51	1.17	1.38	2.77	1.65	8.13	4.12	2.60	1.30	0.73	0.83	0.54	
18	0.50	1.27	1.52	2.51	1.98	8.03	3.88	2.51	1.29	0.71	0.83	0.53	
19	0.48	1.22	1.43	2.28	2.30	8.36	3.75	2.43	1.27	0.68	0.78	0.50	
20	0.52	0.94	1.51	1.93	2.46	8.33	3.79	2.45	1.30	0.70	0.90	0.49	
21	0.51	0.79	2.36	1.74	2.65	8.33	3.58	2.39	1.28	0.71	0.87	0.48	
22	0.52	0.72	3.43	1.55	2.72	8.22	3.47	2.62	1.25	0.68	0.78	0.47	
23	0.53	0.68	3.07	1.41	2.34	8.19	3.37	2.46	1.24	0.66	0.75	0.45	
24	0.60	0.65	2.60	1.28	2.17	8.27	3.06	2.29	1.26	0.68	0.70	0.43	
25	0.59	0.61	2.22	1.17	2.89	8.17	2.96	2.21	1.20	0.66	0.67	0.47	
26	0.54	0.57	1.99	1.08	3.47	7.98	2.95	2.11	1.10	0.63	0.68	0.46	
27	0.65	0.60	2.03	1.02	3.02	7.72	2.68	2.01	1.09	0.61	0.70	0.46	
28	0.75	0.84	2.33	1.06	3.48	7.34	2.49	1.94	1.08	0.63	0.67	0.48	
29	0.65	0.71	2.47	0.86	5.50	6.68	2.34	1.94	1.06	0.62	0.71	0.48	
30	0.52	0.63	2.28	0.82	5.35	6.23	2.21	1.87	1.10	0.61		0.48	
31		0.66		0.93	4.23		2.12		1.06	0.58		0.48	
MEAN	0.55	0.83	1.50	1.88	2.16	6.77	4.11	2.56	1.42	0.77	0.71	0.56	
MAX	0.75	1.39	3.43	3.74	5.50	8.87	6.13	3.82	1.90	1.04	0.90	0.77	8.87
MIN	0.44	0.57	0.63	0.82	0.96	2.46	2.12	1.87	1.06	0.58	0.60	0.43	0.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.89 M (MSL), AT 15.00 HOURS, ON SEP 13, 1987
ZERO GAGE AT BOTTOM ELEVATION -0.49 M (MSL), RIVER BED 0.15 M (MSL)
LEFT BANK ELEVATION 9.26 M (MSL)
RIGHT BANK ELEVATION 9.42 M (MSL), DRAINAGE AREA 7502 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.4	4.4	6.0	17.3	11.7	101.6	285.6	45.2	36.9	13.6	5.5	5.7	
2	5.5	4.9	5.7	16.2	27.0	77.7	211.6	47.1	35.9	13.6	4.9	5.7	
3	5.2	4.7	5.2	18.4	22.3	69.7	235.6	48.3	41.1	12.6	4.9	5.5	
4	5.2	4.5	5.3	21.6	25.1	65.3	233.4	78.7	39.5	11.7	4.9	5.0	
5	4.7	4.7	7.4	43.7	23.8	63.2	217.3	130.3	36.6	11.0	4.9	3.1	
6	4.4	4.5	7.8	48.3	20.1	81.2	231.9	114.9	34.1	10.5	4.9	2.7	
7	3.7	6.0	15.1	49.1	21.0	242.4	223.0	84.7	31.0	10.1	4.7	5.5	
8	3.6	12.6	21.0	54.6	21.6	374.2	210.9	75.9	30.6	9.7	4.9	5.2	
9	3.4	23.5	20.4	52.2	17.0	307.9	182.2	84.2	29.3	8.8	4.9	5.2	
10	3.1	15.4	18.1	67.1	14.6	307.9	155.3	80.2	27.7	7.8	6.1	7.6	
11	2.8	12.4	15.1	69.7	14.9	455.9	143.4	94.1	27.4	8.6	7.8	7.4	
12	2.8	11.0	12.1	64.1	14.3	500.7	191.7	85.7	27.4	8.2	6.5	6.9	
13	2.6	13.6	9.9	69.2	12.9	535.9	207.5	77.3	27.4	8.0	6.5	6.3	
14	2.6	12.4	8.2	126.0	18.4	517.2	194.3	76.8	27.0	7.6	6.5	4.9	
15	2.3	11.0	6.9	102.1	33.7	498.6	189.1	82.7	25.7	7.1	8.0	4.5	
16	3.9	11.5	7.8	89.2	33.4	483.6	171.1	76.4	23.5	6.9	8.6	4.2	
17	3.3	17.0	23.2	76.8	32.0	460.8	146.8	69.2	20.7	6.9	8.8	3.7	
18	3.1	19.8	27.7	65.3	44.0	451.0	133.6	65.3	20.4	6.5	8.8	3.6	
19	2.8	18.4	24.8	55.8	56.6	483.6	126.6	62.0	19.8	6.0	7.8	3.1	
20	3.4	11.2	27.4	42.2	63.2	480.6	128.7	62.8	20.7	6.3	10.3	3.0	
21	3.3	8.0	59.1	35.1	71.4	480.6	117.5	60.3	20.1	6.5	9.7	2.8	
22	3.4	6.7	109.7	28.7	74.5	469.6	111.7	70.1	19.2	6.0	7.8	2.7	
23	3.6	6.0	91.7	24.1	58.3	466.6	106.6	63.2	19.0	5.7	7.3	2.4	
24	4.7	5.5	69.2	20.1	51.4	474.6	91.2	56.2	19.5	6.0	6.3	2.2	
25	4.5	4.9	53.4	17.0	82.7	464.7	86.2	53.0	17.8	5.7	5.8	2.7	
26	3.7	4.2	44.4	14.6	111.7	446.2	85.7	49.1	15.1	5.2	6.0	2.6	
27	5.5	4.7	46.0	13.1	89.2	421.5	72.7	45.2	14.9	4.9	6.3	2.6	
28	7.3	9.0	57.9	14.1	112.3	387.2	64.5	42.6	14.6	5.2	5.8	2.8	
29	5.5	6.5	63.6	9.5	235.6	331.0	58.3	42.6	14.1	5.0	6.5	2.8	
30	3.4	5.2	55.8	8.6	224.5	293.8	53.0	39.9	15.1	4.9		2.8	
31		5.7		11.0	153.0		49.5		14.1	4.4		2.8	
TOTAL	117.7	289.9	925.9	1344.8	1792.2	10794.8	4716.5	2064.0	766.2	241.0	191.7	128.0	23372.7 CMSDAY
MEAN	3.9	9.4	30.9	43.4	57.8	359.8	152.1	68.8	24.7	7.8	6.6	4.1	63.9 CMS
MAX	7.3	23.5	109.7	126.0	235.6	535.9	285.6	130.3	41.1	13.6	10.3	7.6	535.9 CMS
MIN	2.3	4.2	5.2	8.6	11.7	63.2	49.5	39.9	14.1	4.4	4.7	2.2	2.2 CMS
RUNOFF	10.17	25.05	80.00	116.19	154.85	932.67	407.51	178.33	66.20	20.82	16.56	11.06	2019.40 MCM

MOMENTARY PEAK 538.04 CMS, AT 8.89 M (MSL), AT 15.00 HOURS, ON SEP 13, 1987

RUNOFF YIELD 8.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 71.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG PHRA SATHUNG AT BAN WANG KHIAN, PRACHIN BURI (KGT.10)

LOCATION — LAT. 13-48-29 N., LONG. 102-03-35 E., ON LEFT BANK NEAR SAHA CHAROEN SAWMILL, BAN WANG KHIAN, AMPHOE SA KAEO, PRACHIN BURI.

DRAINAGE AREA — 2,523 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +23.741 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 10 METERS FROM THE AUTOMATIC GAGE BUILDING.

ELEVATION — +34.652 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

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

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 118 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

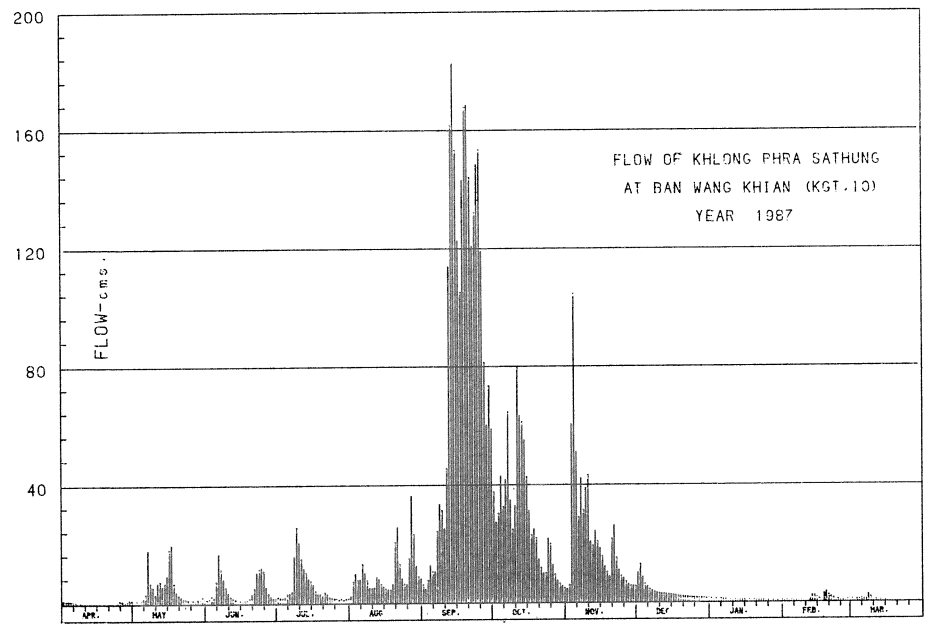
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.03	25.02	25.07	25.28	25.31	25.86	28.05	25.66	26.23	25.08	24.89	25.01	
2	25.00	25.01	25.14	25.22	25.97	25.67	27.46	25.83	26.48	25.06	24.89	24.96	
3	25.00	24.97	25.34	25.22	26.22	26.01	27.64	29.26	26.10	25.06	24.88	24.98	
4	24.96	24.97	25.24	25.26	26.02	26.46	28.35	31.18	25.86	25.06	24.87	24.97	
5	24.93	25.19	25.98	25.45	26.04	26.28	27.77	28.78	25.76	25.06	24.85	25.05	
6	24.90	25.47	26.76	25.48	26.50	26.28	28.28	27.56	25.64	25.03	24.84	25.03	
7	24.85	26.86	26.36	25.57	26.25	27.27	29.46	28.30	25.57	25.02	24.84	25.00	
8	24.84	25.93	26.05	26.70	26.01	27.82	27.90	27.70	25.52	25.00	24.82	25.33	
9	24.82	25.78	25.76	27.36	25.73	27.70	27.31	28.12	25.47	24.92	24.82	25.17	
10	24.81	25.42	25.51	27.03	25.71	27.33	27.79	28.36	25.44	24.94	24.86	25.04	
11	24.81	25.93	25.31	26.64	25.74	28.49	30.17	27.04	25.42	24.98	24.86	24.97	
12	24.81	25.98	25.19	26.38	26.11	31.52	29.40	26.94	25.41	24.93	25.19	24.93	
13	24.77	25.80	25.11	26.26	26.05	33.18	29.30	27.27	25.40	24.96	25.30	24.88	
14	24.77	25.92	25.05	26.06	25.88	33.83	28.99	27.04	25.38	24.98	25.28	24.86	
15	24.73	26.16	25.01	26.00	25.77	32.90	28.33	26.89	25.36	24.96	25.15	24.82	
16	24.73	26.88	25.01	25.86	25.70	31.84	27.69	26.69	25.34	24.96	25.03	24.81	
17	24.72	26.98	25.00	25.60	25.66	31.20	27.19	26.42	25.32	24.95	24.92	24.80	
18	24.70	25.92	25.05	25.45	25.65	32.56	27.31	26.25	25.28	24.94	25.60	24.80	
19	24.70	25.56	25.19	25.45	25.88	33.38	27.12	26.12	25.26	24.92	25.50	24.77	
20	24.72	25.40	25.43	25.33	27.03	33.40	26.62	27.10	25.26	24.92	25.32	24.77	
21	24.74	25.29	25.73	25.54	27.36	32.59	26.38	27.39	25.24	24.92	25.22	24.78	
22	24.74	25.16	26.26	25.43	26.50	31.77	26.22	26.65	25.23	24.92	25.11	24.79	
23	24.78	25.12	26.37	25.26	26.07	32.18	26.23	26.32	25.20	24.90	25.08	24.78	
24	24.88	25.07	26.40	25.22	25.89	32.74	27.11	26.13	25.19	24.89	24.96	24.77	
25	25.04	25.06	26.32	25.18	25.87	32.91	26.99	26.06	25.18	24.88	24.92	24.77	
26	25.00	25.04	25.77	25.13	26.64	31.71	26.47	25.94	25.17	24.87	24.92	24.75	
27	24.94	25.04	25.49	25.06	27.98	30.24	26.19	25.85	25.16	24.86	24.92	24.88	
28	24.93	25.10	25.31	25.14	27.21	29.25	25.99	25.80	25.15	24.85	24.99	24.82	
29	25.08	25.08	25.19	25.06	26.44	29.88	25.88	25.79	25.13	24.86	25.04	24.80	
30	25.06	25.28	25.17	25.13	26.13	29.18	25.79	25.78	25.11	24.88		24.77	
31		25.10		25.16	26.06		25.71		25.10	24.89		24.74	
MEAN	24.86	25.53	25.55	25.64	26.17	30.05	27.45	27.01	25.43	24.95	25.03	24.89	
MAX	25.08	26.98	26.76	27.36	27.98	33.83	30.17	31.18	26.48	25.08	25.60	25.33	33.83
MIN	24.70	24.97	25.00	25.06	25.31	25.67	25.71	25.66	25.10	24.85	24.82	24.74	24.70

ANNUAL MAX MOMENTARY GAGE HEIGHT — 33.89 M (MSL), AT 14.00 HOURS, ON SEP 14, 1987

ZERO GAGE AT BOTTOM ELEVATION — 23.74 M (MSL), RIVER BED — 24.27 M (MSL)

LEFT BANK ELEVATION — 34.39 M (MSL)

RIGHT BANK ELEVATION — 34.69 M (MSL), DRAINAGE AREA — 2523 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.02	0.98	1.18	2.10	2.26	6.24	37.50	4.58	10.03	1.22	0.57	0.94	
2	0.90	0.94	1.46	1.80	7.30	4.66	27.26	5.97	12.96	1.14	0.57	0.78	
3	0.90	0.81	2.44	1.80	9.92	7.70	30.28	60.40	8.60	1.14	0.54	0.84	
4	0.78	0.81	1.90	2.00	7.80	12.72	42.90	104.58	6.24	1.14	0.51	0.81	
5	0.69	1.66	7.40	3.10	8.00	10.58	32.49	51.02	5.38	1.14	0.45	1.10	
6	0.60	3.22	16.64	3.28	13.20	10.58	41.64	28.92	4.42	1.02	0.42	1.02	
7	0.45	18.04	11.52	3.89	10.25	24.22	64.56	42.00	3.89	0.98	0.42	0.90	
8	0.42	6.90	8.10	15.80	7.70	33.36	34.80	31.30	3.54	0.90	0.36	2.38	
9	0.36	5.54	5.38	25.66	5.14	31.30	24.86	38.76	3.22	0.66	0.36	1.58	
10	0.33	2.92	3.47	20.55	4.98	25.18	32.83	43.08	3.04	0.72	0.48	1.06	
11	0.33	6.90	2.26	15.02	5.22	45.51	79.74	20.70	2.92	0.84	0.48	0.81	
12	0.33	7.40	1.66	11.76	8.71	113.74	63.30	19.20	2.86	0.69	1.66	0.69	
13	0.24	5.70	1.34	10.36	8.10	161.60	61.20	24.22	2.80	0.78	2.20	0.54	
14	0.24	6.80	1.10	8.20	6.42	182.55	55.01	20.70	2.68	0.84	2.10	0.48	
15	0.16	9.26	0.94	7.60	5.46	153.20	42.54	18.46	2.56	0.78	1.50	0.36	
16	0.16	18.32	0.94	6.24	4.90	122.62	31.13	15.67	2.44	0.78	1.02	0.33	
17	0.14	19.80	0.90	4.10	4.58	105.10	22.95	12.24	2.32	0.75	0.66	0.30	
18	0.10	6.80	1.10	3.10	4.50	143.14	24.86	10.25	2.10	0.72	4.10	0.30	
19	0.10	3.82	1.66	3.10	6.42	167.78	21.90	8.82	2.00	0.66	3.40	0.24	
20	0.14	2.80	2.98	2.38	20.55	168.40	14.76	21.60	2.00	0.66	2.32	0.24	
21	0.18	2.15	5.14	3.68	25.66	144.01	11.76	26.14	1.90	0.66	1.80	0.26	
22	0.18	1.54	10.36	2.98	13.20	120.66	9.92	15.15	1.85	0.66	1.34	0.28	
23	0.26	1.38	11.64	2.00	8.30	132.14	10.03	11.04	1.70	0.60	1.22	0.26	
24	0.54	1.18	12.00	1.80	6.51	148.40	21.75	8.93	1.66	0.57	0.78	0.24	
25	1.06	1.14	11.04	1.62	6.33	153.50	19.95	8.20	1.62	0.54	0.66	0.24	
26	0.90	1.06	5.46	1.42	15.02	118.98	12.84	7.00	1.58	0.51	0.66	0.20	
27	0.72	1.06	3.34	1.14	36.24	81.32	9.59	6.15	1.54	0.48	0.66	0.54	
28	0.69	1.30	2.26	1.46	23.26	60.20	7.50	5.70	1.50	0.45	0.87	0.36	
29	1.22	1.22	1.66	1.14	12.48	73.38	6.42	5.62	1.42	0.48	1.06	0.30	
30	1.14	2.10	1.58	1.42	8.93	58.80	5.62	5.54	1.34	0.54		0.24	
31		1.30		1.54	8.20		4.98		1.30	0.57		0.18	
TOTAL	15.28	144.85	138.85	172.04	315.54	2621.57	906.87	681.94	103.41	23.62	33.17	18.80	5175.94 CMSDAY
MEAN	0.51	4.67	4.63	5.55	10.18	87.39	29.25	22.73	3.34	0.76	1.14	0.61	14.14 CMS
MAX	1.22	19.80	16.64	25.66	36.24	182.55	79.74	104.58	12.96	1.22	4.10	2.38	182.55 CMS
MIN	0.10	0.81	0.90	1.14	2.26	4.66	4.98	4.58	1.30	0.45	0.36	0.18	0.10 CMS
RUNOFF	1.320	12.515	11.997	14.864	27.263	226.504	78.354	58.920	8.935	2.041	2.866	1.624	447.201 MCM

MOMENTARY PEAK 184.65 CMS, AT 33.89 M (MSL), AT 14.00 HOURS, ON SEP 14, 1987

RUNOFF YIELD 5.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 73.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

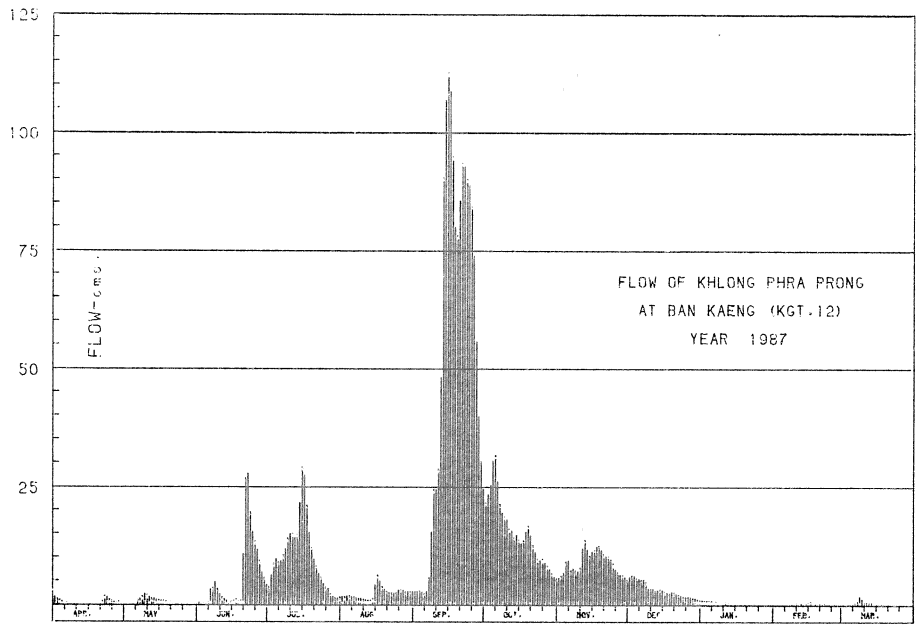
KHLONG PHRA PRONG AT BAN KAENG, PRACHIN BURI (KGT.12)

LOCATION	LAT. 13°56'02" N., LONG. 101°58'41" E., ON LEFT BANK NEAR THE 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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK INFRONT OF THE GAGE OBSERVER'S HOUSE.
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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 117 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.34	0.37	0.93	0.64	0.80	2.48	1.14	1.15	0.48	0.27	0.24	
2	0.55	0.32	0.40	1.20	0.64	0.80	2.60	1.18	1.19	0.47	0.28	0.22	
3	0.50	0.30	0.35	1.44	0.65	0.82	2.73	1.25	1.18	0.47	0.27	0.24	
4	0.44	0.28	0.40	1.53	0.68	0.78	3.04	1.48	1.13	0.47	0.27	0.24	
5	0.41	0.31	0.38	1.47	0.63	0.74	3.11	1.50	1.11	0.46	0.25	0.25	
6	0.37	0.52	0.86	1.49	0.63	0.80	2.78	1.30	1.09	0.44	0.26	0.33	
7	0.34	0.55	0.90	1.61	0.59	1.14	2.46	1.34	1.10	0.43	0.27	0.42	
8	0.32	0.66	1.04	1.72	0.57	2.02	2.33	1.30	1.04	0.42	0.34	0.64	
9	0.31	0.73	0.87	1.91	0.57	2.67	2.27	1.28	0.88	0.42	0.37	0.54	
10	0.31	0.70	0.72	1.99	0.54	2.67	2.22	1.36	0.87	0.42	0.38	0.45	
11	0.30	0.62	0.62	1.99	0.51	2.94	2.07	1.73	0.87	0.40	0.35	0.38	
12	0.30	0.58	0.54	1.92	0.50	4.00	2.04	1.88	0.83	0.38	0.32	0.38	
13	0.28	0.56	0.48	1.97	0.50	5.59	1.92	1.71	0.83	0.37	0.30	0.35	
14	0.28	0.51	0.44	2.48	0.57	6.05	1.96	1.59	0.86	0.36	0.31	0.32	
15	0.27	0.50	0.42	2.96	0.97	6.20	1.88	1.67	0.83	0.36	0.39	0.29	
16	0.27	0.48	0.48	2.86	1.20	6.10	1.82	1.70	0.81	0.35	0.42	0.27	
17	0.27	0.47	0.54	2.44	1.06	5.72	1.87	1.76	0.76	0.35	0.38	0.25	
18	0.26	0.44	0.47	2.01	0.93	5.26	2.02	1.78	0.75	0.35	0.35	0.25	
19	0.27	0.43	0.49	1.74	0.86	5.20	2.12	1.70	0.78	0.32	0.31	0.24	
20	0.34	0.43	1.62	1.53	0.81	5.44	1.96	1.62	0.77	0.33	0.30	0.22	
21	0.46	0.38	2.82	1.39	0.77	5.68	1.79	1.58	0.73	0.31	0.29	0.22	
22	0.67	0.35	2.88	1.23	0.76	5.66	1.66	1.58	0.71	0.31	0.29	0.20	
23	0.62	0.34	2.34	1.15	0.75	5.58	1.53	1.52	0.66	0.30	0.27	0.20	
24	0.53	0.30	2.03	1.00	0.77	5.54	1.50	1.44	0.64	0.30	0.27	0.20	
25	0.47	0.28	1.86	0.92	0.84	5.40	1.53	1.32	0.62	0.29	0.26	0.18	
26	0.40	0.28	1.71	0.88	0.86	5.05	1.46	1.27	0.63	0.29	0.25	0.19	
27	0.41	0.31	1.50	0.74	0.83	4.36	1.40	1.21	0.61	0.29	0.24	0.19	
28	0.42	0.29	1.26	0.64	0.80	3.57	1.32	1.20	0.58	0.28	0.24	0.18	
29	0.41	0.26	1.14	0.60	0.80	3.04	1.24	1.15	0.56	0.28	0.26	0.20	
30	0.39	0.26	0.98	0.58	0.80	2.68	1.16	1.10	0.53	0.27		0.20	
31		0.29		0.63	0.80		1.12		0.50	0.27		0.20	
MEAN	0.39	0.42	1.03	1.51	0.74	3.74	1.98	1.45	0.83	0.36	0.30	0.28	
MAX	0.67	0.73	2.88	2.96	1.20	6.20	3.11	1.88	1.19	0.48	0.42	0.64	6.20
MIN	0.26	0.26	0.35	0.58	0.50	0.74	1.12	1.10	0.50	0.27	0.24	0.18	0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.22 M (A.D), AT 22.00 HOURS, ON SEP 15, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.34 M (A.D)
LEFT BANK ELEVATION 9.65 M (A.D)
RIGHT BANK ELEVATION 9.16 M (A.D), DRAINAGE AREA 1540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.62	0.42	0.51	3.87	1.74	2.80	21.62	5.76	5.85	0.92	0.24	0.18	
2	1.25	0.36	0.60	6.30	1.74	2.80	23.40	6.12	6.21	0.88	0.26	0.14	
3	1.00	0.30	0.45	8.74	1.80	2.96	25.38	6.80	6.12	0.88	0.24	0.18	
4	0.76	0.26	0.60	9.73	1.98	2.66	30.48	9.18	5.67	0.88	0.24	0.18	
5	0.64	0.33	0.54	9.07	1.68	2.38	31.67	9.40	5.49	0.84	0.20	0.20	
6	0.51	1.10	3.28	9.29	1.68	2.80	26.18	7.30	5.31	0.76	0.22	0.39	
7	0.42	1.25	3.60	10.61	1.45	5.76	21.34	7.70	5.40	0.72	0.24	0.68	
8	0.36	1.86	4.86	11.84	1.35	15.46	19.52	7.30	4.86	0.68	0.42	1.74	
9	0.33	2.31	3.36	14.12	1.35	24.45	18.71	7.10	3.44	0.68	0.51	1.20	
10	0.33	2.10	2.24	15.08	1.20	24.45	18.06	7.90	3.36	0.68	0.54	0.80	
11	0.30	1.62	1.62	15.08	1.05	28.78	16.11	11.96	3.36	0.60	0.45	0.54	
12	0.30	1.40	1.20	14.24	1.00	48.20	15.72	13.76	3.04	0.54	0.36	0.54	
13	0.26	1.30	0.92	14.84	1.00	90.47	14.24	11.72	3.04	0.51	0.30	0.45	
14	0.26	1.05	0.76	21.62	1.35	106.90	14.72	10.39	3.28	0.48	0.33	0.36	
15	0.24	1.00	0.68	29.12	4.23	112.70	13.76	11.27	3.04	0.48	0.57	0.28	
16	0.24	0.92	0.92	27.46	6.30	108.80	13.04	11.60	2.88	0.45	0.68	0.24	
17	0.24	0.88	1.20	21.06	5.04	94.90	13.64	12.32	2.52	0.45	0.54	0.20	
18	0.22	0.76	0.88	15.33	3.87	80.00	15.46	12.56	2.45	0.45	0.45	0.20	
19	0.24	0.72	0.96	12.08	3.28	78.20	16.76	11.60	2.66	0.36	0.33	0.18	
20	0.42	0.72	10.72	9.73	2.88	85.58	14.72	10.72	2.59	0.39	0.30	0.14	
21	0.84	0.54	26.82	8.20	2.59	93.52	12.68	10.28	2.31	0.33	0.28	0.14	
22	1.92	0.45	27.78	6.60	2.52	92.84	11.16	10.28	2.17	0.33	0.28	0.10	
23	1.62	0.42	19.66	5.85	2.45	90.14	9.73	9.62	1.86	0.30	0.24	0.10	
24	1.15	0.30	15.59	4.50	2.59	88.82	9.40	8.74	1.74	0.30	0.24	0.10	
25	0.88	0.26	13.52	3.78	3.12	84.30	9.73	7.50	1.62	0.28	0.22	0.08	
26	0.60	0.26	11.72	3.44	3.28	73.90	8.96	7.00	1.68	0.28	0.20	0.09	
27	0.64	0.33	9.40	2.38	3.04	55.88	8.30	6.40	1.56	0.28	0.18	0.09	
28	0.68	0.28	6.90	1.74	2.80	39.93	7.50	6.30	1.40	0.26	0.18	0.08	
29	0.64	0.22	5.76	1.50	2.80	30.48	6.70	5.85	1.30	0.26	0.22	0.10	
30	0.57	0.22	4.32	1.40	2.80	24.60	5.94	5.40	1.15	0.24		0.10	
31		0.28		1.68	2.80		5.58		1.00	0.24		0.10	
TOTAL	19.48	24.22	181.37	320.28	76.76	1595.46	480.21	269.83	98.36	15.73	9.46	9.90	3101.06 CMSDAY
MEAN	0.65	0.78	6.05	10.33	2.48	53.18	15.49	8.99	3.17	0.51	0.33	0.32	8.47 CMS
MAX	1.92	2.31	27.78	29.12	6.30	112.70	31.67	13.76	6.21	0.92	0.68	1.74	112.70 CMS
MIN	0.22	0.22	0.45	1.40	1.00	2.38	5.58	5.40	1.00	0.24	0.18	0.08	0.08 CMS
RUNOFF	1.683	2.093	15.670	27.672	6.632	137.848	41.490	23.313	8.498	1.359	0.817	0.855	267.932 MCM

MOMENTARY PEAK 113.50 CMS, AT 6.22 M (A.D), AT 22.00 HOURS, ON SEP 15, 1987

RUNOFF YIELD 5.50 LITERS/SECOND/SQUARE KM. MOMENTARY PEAK YIELD 73.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG PHRA PRONG AT BAN NANG LENG, PRACHIN BURI (KGT.13)

LOCATION — LAT. 13°58'04" N., LONG. 101°44'20" E., ON LEFT BANK ABOUT 40 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AT BAN NANG LENG, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA — 5,347 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.17 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK NEAR THE GAGE SITE.

ELEVATION — +10.712 M. (M.S.L.)

GAGE READING FREQUENCY — 3-5 TIME 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 — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1968, 1971-1976, 1982 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1967-1968, 1971-1976, 1982 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

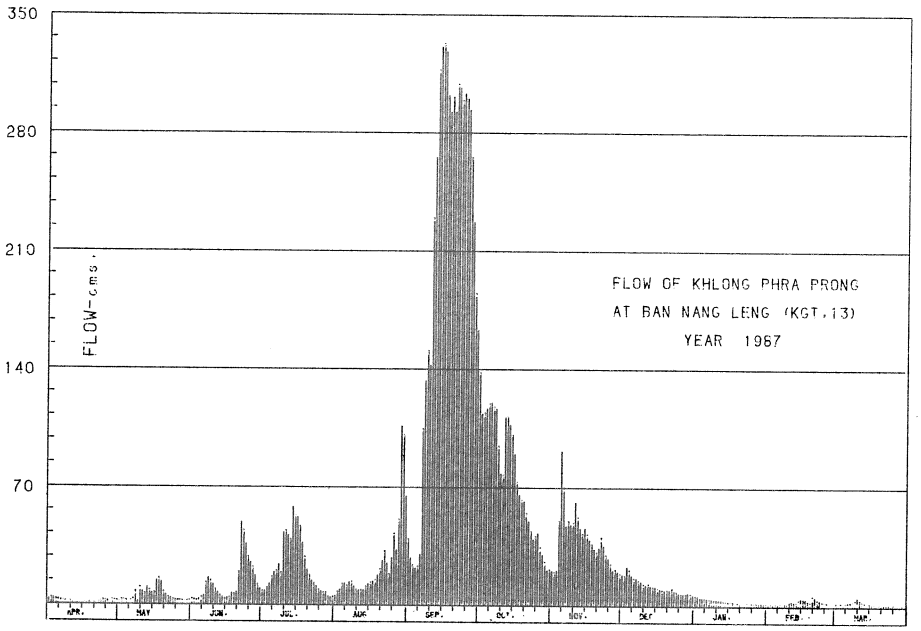
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL.1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.33	1.23	1.39	1.82	1.58	3.47	6.47	2.61	2.49	1.62	1.13	1.21	
2	1.44	1.32	1.35	1.80	1.79	2.98	5.87	2.58	2.47	1.59	1.14	1.22	
3	1.40	1.30	1.32	1.96	1.87	2.79	5.89	2.62	2.74	1.52	1.13	1.21	
4	1.36	1.27	1.37	2.12	2.13	2.69	5.95	3.90	2.65	1.50	1.14	1.18	
5	1.32	1.24	1.51	2.40	2.14	2.75	6.03	5.28	2.46	1.50	1.13	1.20	
6	1.27	1.25	1.57	2.55	2.06	3.08	6.04	4.63	2.37	1.47	1.12	1.24	
7	1.23	1.39	2.17	2.61	2.19	5.64	5.98	3.78	2.37	1.44	1.12	1.27	
8	1.20	1.79	2.35	2.78	2.22	6.35	5.95	3.90	2.28	1.42	1.12	1.29	
9	1.18	1.22	2.25	2.54	2.02	6.75	5.37	3.81	2.23	1.41	1.15	1.41	
10	1.18	1.97	2.09	3.62	1.89	6.56	4.89	3.86	2.14	1.40	1.26	1.54	
11	1.16	1.77	1.89	3.66	1.84	8.25	4.87	4.32	2.09	1.38	1.30	1.42	
12	1.15	1.69	1.73	3.55	1.87	8.82	5.82	3.99	2.15	1.35	1.25	1.30	
13	1.14	1.96	1.60	3.46	1.85	9.58	5.88	3.72	2.06	1.32	1.25	1.24	
14	1.12	1.85	1.48	4.20	2.04	9.77	5.70	3.60	2.03	1.29	1.41	1.23	
15	1.11	1.70	1.42	4.03	2.12	9.80	5.55	3.73	2.02	1.27	1.48	1.19	
16	1.13	1.74	1.45	3.97	2.18	9.73	5.23	3.59	1.97	1.28	1.47	1.16	
17	1.12	2.23	1.50	3.77	2.22	9.37	4.74	3.45	1.93	1.26	1.44	1.14	
18	1.11	2.34	1.70	3.37	2.28	9.22	4.48	3.35	1.90	1.25	1.35	1.12	
19	1.10	2.18	1.68	3.01	2.45	9.35	4.37	3.22	1.87	1.22	1.28	1.10	
20	1.09	1.78	1.74	2.63	2.67	9.22	4.34	3.14	1.89	1.21	1.64	1.08	
21	1.08	1.61	2.56	2.46	2.90	9.46	4.08	3.25	1.87	1.21	1.55	1.07	
22	1.15	1.50	3.85	2.25	3.17	9.43	3.89	3.52	1.96	1.21	1.45	1.06	
23	1.19	1.44	3.67	2.15	2.83	9.32	3.66	3.30	1.83	1.20	1.38	1.07	
24	1.31	1.37	3.34	2.03	2.50	9.38	3.46	3.07	1.81	1.19	1.30	1.10	
25	1.26	1.32	3.01	1.88	2.98	9.37	3.55	2.97	1.73	1.18	1.26	1.09	
26	1.22	1.30	2.85	1.80	3.60	9.24	3.61	2.82	1.71	1.18	1.23	1.07	
27	1.22	1.28	2.72	1.76	3.19	8.83	3.27	2.62	1.70	1.16	1.21	1.04	
28	1.32	1.26	2.43	1.75	3.93	8.21	3.07	2.66	1.71	1.16	1.20	1.04	
29	1.28	1.25	2.09	1.54	5.68	7.45	2.88	2.58	1.74	1.15	1.20	1.05	
30	1.26	1.25	1.90	1.51	5.55	7.01	2.74	2.53	1.72	1.14		1.08	
31		1.28		1.55	4.44		2.66		1.64	1.14		1.06	
MEAN	1.21	1.55	2.07	2.60	2.65	7.46	4.72	3.41	2.05	1.31	1.28	1.18	
MAX	1.44	2.34	3.85	4.20	5.68	9.80	6.47	5.28	2.74	1.62	1.64	1.54	9.80
MIN	1.08	1.22	1.32	1.51	1.58	2.69	2.66	2.53	1.64	1.14	1.12	1.04	1.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.81 M (MSL), AT 18.00 HOURS, ON SEP 15, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.17 M (MSL), RIVER BED 0.49 M (MSL)
LEFT BANK ELEVATION 11.15 M (MSL)
RIGHT BANK ELEVATION 11.15 M (MSL), DRAINAGE AREA 5347 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.00	2.15	3.52	8.50	5.52	39.48	138.70	20.64	18.43	5.98	1.44	1.98	
2	4.00	2.92	3.17	8.23	8.10	28.18	113.76	20.08	18.09	5.63	1.51	2.07	
3	3.60	2.75	2.92	10.37	9.17	24.19	114.55	20.82	23.14	4.83	1.44	1.98	
4	3.26	2.49	3.35	12.70	12.85	22.11	116.93	50.36	21.37	4.60	1.51	1.77	
5	2.92	2.24	4.71	16.90	13.00	23.35	120.14	91.71	17.92	4.60	1.44	1.90	
6	2.49	2.32	5.40	19.53	11.80	30.41	120.55	70.34	16.45	4.30	1.38	2.24	
7	2.15	3.52	13.45	20.64	13.75	104.97	118.11	47.31	16.45	4.00	1.38	2.49	
8	1.90	8.10	16.15	23.98	14.20	133.47	116.93	50.36	15.10	3.80	1.38	2.66	
9	1.77	2.07	14.65	19.34	11.20	151.38	94.95	48.07	14.35	3.70	1.57	3.70	
10	1.77	10.50	12.25	43.25	9.43	142.73	78.38	49.34	13.00	3.60	2.41	5.06	
11	1.64	7.83	9.43	44.26	8.77	230.13	77.75	61.46	12.25	3.43	2.75	3.80	
12	1.57	6.78	7.30	41.47	9.17	265.96	111.79	52.65	13.15	3.17	2.32	2.75	
13	1.51	10.37	5.75	39.24	8.90	318.12	114.16	45.79	11.80	2.92	2.32	2.24	
14	1.38	8.90	4.40	58.23	11.50	331.71	107.23	42.74	11.35	2.66	3.70	2.15	
15	1.31	6.90	3.80	53.70	12.70	333.85	101.58	46.04	11.20	2.49	4.40	1.83	
16	1.44	7.43	4.10	52.14	13.60	328.85	89.97	42.49	10.50	2.58	4.30	1.64	
17	1.38	14.35	4.60	47.06	14.20	303.30	73.66	39.00	9.97	2.41	4.00	1.51	
18	1.31	16.00	6.90	37.08	15.10	292.93	65.94	36.60	9.57	2.32	3.17	1.38	
19	1.25	13.60	6.67	28.83	17.75	301.90	62.86	33.59	9.17	2.07	2.58	1.25	
20	1.19	7.97	7.43	21.01	21.75	292.93	62.02	31.77	9.43	1.98	6.21	1.12	
21	1.12	5.86	19.71	17.92	26.50	309.60	55.03	34.27	9.17	1.98	5.17	1.05	
22	1.57	4.60	49.09	14.65	32.45	307.50	50.11	40.71	10.37	1.98	4.10	0.99	
23	1.83	4.00	44.52	13.15	25.03	299.80	44.26	35.40	8.63	1.90	3.43	1.05	
24	2.83	3.35	36.36	11.35	18.60	304.00	39.24	30.19	8.37	1.83	2.75	1.25	
25	2.41	2.92	28.83	9.30	28.18	303.30	41.47	27.97	7.30	1.77	2.41	1.19	
26	2.07	2.75	25.45	8.23	42.74	294.30	42.99	24.82	7.03	1.77	2.15	1.05	
27	2.07	2.58	22.72	7.70	32.91	266.62	34.72	20.82	6.90	1.64	1.98	0.86	
28	2.92	2.41	17.41	7.57	51.12	227.71	30.19	21.56	7.03	1.64	1.90	0.86	
29	2.58	2.32	12.25	5.06	106.48	185.35	26.08	20.08	7.43	1.57	1.90	0.92	
30	2.41	2.32	9.57	4.71	101.58	163.39	23.14	19.15	7.17	1.51		1.12	
31		2.58		5.17	64.82		21.56		6.21	1.51		0.99	
TOTAL	62.65	174.88	405.86	711.27	772.87	6361.52	2408.75	1176.13	368.30	90.17	77.00	56.85	12666.25 CMSDAY
MEAN	2.09	5.64	13.53	22.94	24.93	212.05	77.70	39.20	11.88	2.91	2.66	1.83	34.61 CMS
MAX	4.00	16.00	49.09	58.23	106.48	333.85	138.70	91.71	23.14	5.98	6.21	5.06	333.85 CMS
MIN	1.12	2.07	2.92	4.71	5.52	22.11	21.56	19.15	6.21	1.51	1.38	0.86	0.86 CMS
RUNOFF	5.413	15.110	35.066	61.454	66.776	549.635	208.116	101.618	31.821	7.791	6.653	4.912	1094.364 MCM

MOMENTARY PEAK 334.57 CMS, AT 9.81 M (MSL), AT 18.00 HOURS, ON SEP 15, 1987

RUNOFF YIELD 6.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 62.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

HUAI YANG AT BAN THUNG FAEK, PRACHIN BURI (KGT.14)

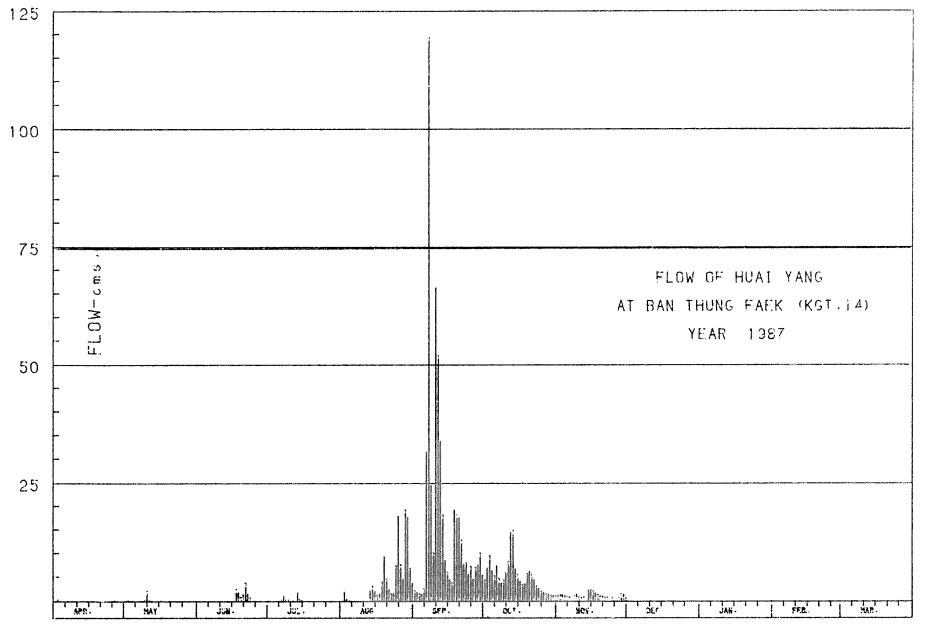
LOCATION — LAT. 14°-09'-30" N., LONG. 101°-52'-52" E., ON LEFT BANK ABOUT 2 KILOMETERS FROM KABIN BURI-NAKHON RATCHASIMA HIGHWAY, BAN THUNG FAEK, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA	366 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+34.611 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+42.429 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 - 1981, 1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 - 1981, 1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 45 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	34.95	35.04	34.79	34.88	34.95	35.26	35.45	35.14	35.03	34.91	34.84	34.84	
2	35.00	34.94	34.80	34.88	35.28	35.22	35.61	35.16	35.01	34.90	34.84	34.84	
3	34.93	34.88	34.80	34.87	35.05	35.19	35.75	35.16	35.00	34.90	34.84	34.84	
4	34.89	34.97	34.80	35.00	34.97	35.17	35.58	35.13	35.00	34.89	34.84	34.83	
5	34.85	34.89	34.81	35.03	34.93	35.31	35.51	35.10	34.99	34.89	34.84	34.84	
6	34.82	34.91	34.84	35.02	34.91	36.60	35.64	35.09	34.98	34.88	34.84	34.84	
7	34.81	34.97	34.84	35.13	34.88	38.63	35.47	35.08	34.98	34.87	34.84	34.84	
8	34.80	34.93	34.82	35.03	34.88	36.36	35.40	35.12	34.98	34.87	34.84	34.85	
9	34.79	35.00	34.83	35.02	34.87	35.78	35.45	35.17	34.98	34.87	34.86	34.85	
10	34.79	35.26	34.89	35.00	34.86	37.52	35.55	35.10	34.97	34.87	34.90	34.86	
11	34.80	35.02	34.87	34.96	34.86	37.17	35.69	35.09	34.97	34.87	34.91	34.85	
12	34.79	34.93	34.85	34.94	34.86	36.67	35.98	35.09	34.96	34.87	34.94	34.84	
13	34.79	34.89	34.84	35.22	35.26	36.06	36.00	35.06	34.96	34.86	34.92	34.84	
14	34.79	34.86	34.81	35.06	35.35	35.70	35.60	35.35	34.96	34.86	34.89	34.84	
15	34.82	34.93	34.82	34.99	35.24	35.56	35.53	35.28	34.96	34.86	34.88	34.84	
16	34.84	35.00	35.05	34.94	35.15	35.45	35.43	35.26	34.95	34.86	34.91	34.84	
17	35.07	34.93	35.29	34.96	35.19	35.41	35.38	35.21	34.95	34.86	35.01	34.84	
18	35.05	34.88	35.22	34.99	35.42	36.14	35.39	35.17	34.95	34.86	34.98	34.83	
19	34.95	34.85	35.10	35.00	35.74	36.06	35.54	35.13	34.95	34.85	34.91	34.83	
20	34.90	34.83	35.17	34.96	35.47	36.01	35.57	35.12	34.94	34.85	34.88	34.83	
21	34.87	34.82	35.41	34.94	35.28	35.91	35.53	35.09	34.94	34.85	34.87	34.82	
22	34.84	34.82	35.19	34.91	35.20	35.65	35.45	35.08	34.93	34.85	34.86	34.82	
23	34.83	34.81	35.08	34.87	35.20	35.67	35.35	35.07	34.93	34.85	34.85	34.81	
24	34.82	34.82	35.02	34.87	35.64	35.53	35.30	35.07	34.92	34.84	34.85	34.80	
25	34.89	34.81	34.95	34.86	36.04	35.63	35.25	35.05	34.92	34.84	34.85	34.79	
26	35.00	34.83	34.95	34.85	35.65	35.46	35.22	35.03	34.92	34.84	34.89	34.79	
27	34.85	34.91	34.92	34.86	35.46	35.62	35.19	35.07	34.92	34.84	34.88	34.79	
28	34.81	34.82	34.92	34.86	36.14	35.65	35.17	35.19	34.92	34.84	34.86	34.79	
29	34.81	34.79	34.90	34.86	36.02	35.78	35.15	35.17	34.92	34.84	34.85	34.79	
30	34.81	34.79	34.88	34.86	35.61	35.52	35.14	35.06	34.92	34.85		34.78	
31		34.61		34.87	35.40		35.13		34.92	34.84		34.77	
MEAN	34.87	34.89	34.95	34.95	35.28	35.92	35.46	35.13	34.96	34.86	34.88	34.82	
MAX	35.07	35.26	35.41	35.22	36.14	38.63	36.00	35.35	35.03	34.91	35.01	34.86	38.63
MIN	34.79	34.61	34.79	34.85	34.86	35.17	35.13	35.03	34.92	34.84	34.84	34.77	34.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 39.05 M (MSL), AT 10.00 HOURS, ON SEP 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 34.61 M (MSL), RIVER BED 33.75 M (MSL)
LEFT BANK ELEVATION 43.43 M (MSL)
RIGHT BANK ELEVATION 43.32 M (MSL), DRAINAGE AREA 366 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.54	0.00	0.00	0.15	2.20	4.50	1.18	0.48	0.03	0.00	0.00	
2	0.30	0.12	0.00	0.00	2.40	1.80	6.98	1.32	0.36	0.00	0.00	0.00	
3	0.09	0.00	0.00	0.00	0.60	1.53	9.60	1.32	0.30	0.00	0.00	0.00	
4	0.00	0.21	0.00	0.30	0.21	1.39	6.48	1.11	0.30	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.48	0.09	2.72	5.36	0.90	0.27	0.00	0.00	0.00	
6	0.00	0.03	0.00	0.42	0.03	31.60	7.52	0.84	0.24	0.00	0.00	0.00	
7	0.00	0.21	0.00	1.11	0.00	119.36	4.78	0.78	0.24	0.00	0.00	0.00	
8	0.00	0.09	0.00	0.48	0.00	24.48	3.80	1.04	0.24	0.00	0.00	0.00	
9	0.00	0.30	0.00	0.42	0.00	10.20	4.50	1.39	0.24	0.00	0.00	0.00	
10	0.00	2.20	0.00	0.30	0.00	66.36	6.00	0.90	0.21	0.00	0.00	0.00	
11	0.00	0.42	0.00	0.18	0.00	52.03	8.42	0.84	0.21	0.00	0.03	0.00	
12	0.00	0.09	0.00	0.12	0.00	33.84	14.54	0.84	0.18	0.00	0.12	0.00	
13	0.00	0.00	0.00	1.80	2.20	18.28	15.00	0.66	0.18	0.00	0.06	0.00	
14	0.00	0.00	0.00	0.66	3.20	8.60	6.80	3.20	0.18	0.00	0.00	0.00	
15	0.00	0.09	0.00	0.27	2.00	6.16	5.68	2.40	0.18	0.00	0.00	0.00	
16	0.00	0.30	0.60	0.12	1.25	4.50	4.22	2.20	0.15	0.00	0.03	0.00	
17	0.72	0.09	2.50	0.18	1.53	3.94	3.56	1.70	0.15	0.00	0.36	0.00	
18	0.60	0.00	1.80	0.27	4.08	19.32	3.68	1.39	0.15	0.00	0.24	0.00	
19	0.15	0.00	0.90	0.30	9.40	18.28	5.84	1.11	0.15	0.00	0.03	0.00	
20	0.00	0.00	1.39	0.18	4.78	17.63	6.32	1.04	0.12	0.00	0.00	0.00	
21	0.00	0.00	3.94	0.12	2.40	12.93	5.68	0.84	0.12	0.00	0.00	0.00	
22	0.00	0.00	1.53	0.03	1.60	7.70	4.50	0.78	0.09	0.00	0.00	0.00	
23	0.00	0.00	0.78	0.00	1.60	8.06	3.20	0.72	0.09	0.00	0.00	0.00	
24	0.00	0.00	0.42	0.00	7.52	5.68	2.60	0.72	0.06	0.00	0.00	0.00	
25	0.00	0.00	0.15	0.00	18.02	7.34	2.10	0.60	0.06	0.00	0.00	0.00	
26	0.30	0.00	0.15	0.00	7.70	4.64	1.80	0.48	0.06	0.00	0.00	0.00	
27	0.00	0.03	0.06	0.00	4.64	7.16	1.53	0.72	0.06	0.00	0.00	0.00	
28	0.00	0.00	0.06	0.00	19.32	7.70	1.39	1.53	0.06	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	17.76	10.20	1.25	1.39	0.06	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	6.98	5.52	1.18	0.66	0.06	0.00		0.00	
31		0.00		0.00	3.80		1.11		0.06	0.00		0.00	
TOTAL	2.31	4.72	14.28	7.74	123.26	521.15	159.92	34.60	5.31	0.03	0.87	0.00	874.19 CMSDAY
MEAN	0.08	0.15	0.48	0.25	3.98	17.37	5.16	1.15	0.17	0.00	0.03	0.00	2.39 CMS
MAX	0.72	2.20	3.94	1.80	19.32	119.36	15.00	3.20	0.48	0.03	0.36	0.00	119.36 CMS
MIN	0.00	0.00	0.00	0.00	0.00	1.39	1.11	0.48	0.06	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.200	0.408	1.234	0.669	10.650	45.027	13.817	2.989	0.459	0.003	0.075	0.000	75.530 MCM

MOMENTARY PEAK 142.00 CMS, AT 39.05 M (MSL), AT 10.00 HOURS, ON SEP 7, 1987

RUNOFF YIELD 6.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 387.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

HUAI SAMONG AT BAN KAENG DIN SO, PRACHIN BURI (KGT.15A)

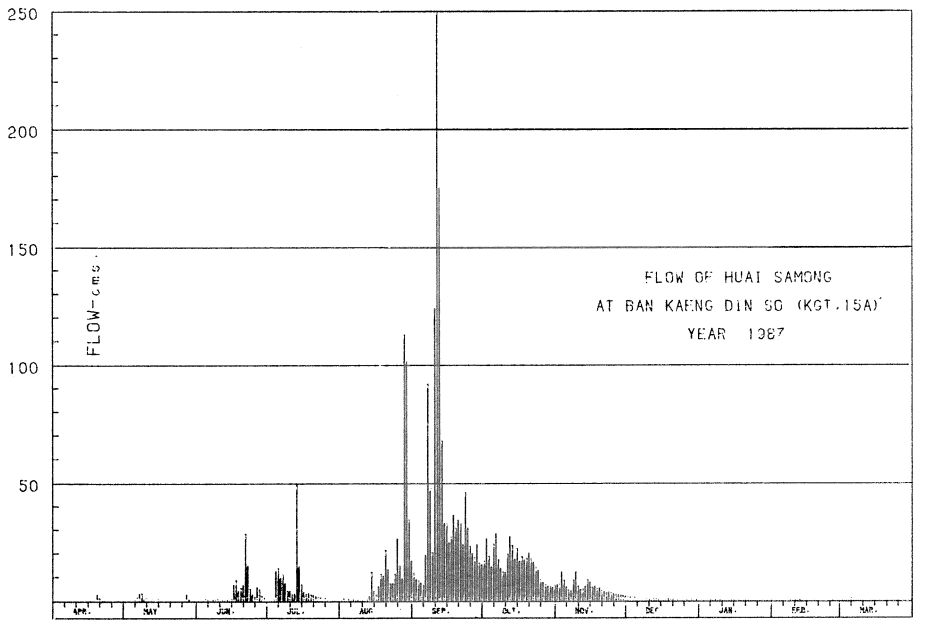
LOCATION — LAT. 14°-03'-46" N., LONG. 101°-55'-39" E., ON RIGHT BANK AT BAN KAENG DIN SO ABOUT 1 KILOMETER UPSTREAM FROM THE KGT.15 STATION, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA	530 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	IIIFRONT 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	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 145 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.67	0.63	0.74	0.90	0.89	1.81	2.08	1.50	1.01	0.79	0.70	0.70	
2	0.66	0.62	0.71	0.92	0.89	1.65	2.51	1.53	0.99	0.79	0.70	0.69	
3	0.66	0.62	0.75	0.94	0.87	1.62	2.18	1.84	0.98	0.78	0.70	0.68	
4	0.65	0.62	0.88	1.86	0.86	1.56	1.96	1.63	0.97	0.77	0.70	0.71	
5	0.64	0.82	0.83	1.93	0.84	1.50	2.41	1.44	0.96	0.76	0.70	0.88	
6	0.64	0.99	0.79	1.69	0.82	2.20	2.60	1.35	0.95	0.76	0.69	0.78	
7	0.63	1.18	0.88	1.78	0.80	4.58	2.11	1.30	0.93	0.76	0.72	0.75	
8	0.62	1.22	0.87	1.56	0.80	3.26	1.93	1.64	0.92	0.75	0.74	0.72	
9	0.62	0.89	0.87	1.32	0.79	2.25	1.84	1.84	0.91	0.75	0.74	0.70	
10	0.62	0.95	0.84	1.31	0.77	5.28	1.83	1.46	0.91	0.75	0.75	0.69	
11	0.62	0.91	0.84	1.22	0.78	7.36	2.22	1.36	0.91	0.74	0.79	0.66	
12	0.61	0.90	0.81	1.18	0.79	6.20	2.55	1.38	0.91	0.74	0.78	0.66	
13	0.61	0.83	0.80	3.35	1.03	3.93	2.38	1.46	0.90	0.73	0.76	0.66	
14	0.61	0.75	0.79	1.97	1.84	2.77	2.12	1.65	0.89	0.73	0.75	0.65	
15	0.62	0.73	0.86	1.52	1.30	2.76	2.33	1.58	0.88	0.73	0.73	0.65	
16	0.77	0.72	1.51	1.26	1.13	2.44	2.08	1.43	0.88	0.73	0.72	0.65	
17	0.71	0.70	1.64	1.19	1.46	2.54	2.17	1.46	0.87	0.72	0.72	0.65	
18	0.71	0.68	1.30	1.21	1.79	2.90	2.11	1.39	0.86	0.72	0.72	0.65	
19	1.15	0.67	1.42	1.16	1.74	2.69	2.14	1.41	0.85	0.72	0.72	0.65	
20	0.94	0.67	1.50	1.13	2.30	2.82	2.24	1.32	0.85	0.72	0.71	0.64	
21	0.79	0.67	2.60	1.06	1.90	2.77	2.13	1.27	0.85	0.71	0.69	0.63	
22	0.72	0.67	1.99	1.01	1.54	2.40	2.06	1.23	0.84	0.71	0.69	0.62	
23	0.69	0.67	1.39	0.97	1.55	3.24	1.95	1.25	0.83	0.71	0.68	0.62	
24	0.69	0.66	1.15	0.97	1.79	2.69	1.88	1.23	0.82	0.71	0.67	0.62	
25	0.69	0.70	1.04	0.93	2.51	2.37	1.65	1.17	0.82	0.71	0.68	0.63	
26	0.65	0.74	1.44	0.90	1.98	2.23	1.58	1.15	0.81	0.71	0.71	0.63	
27	0.71	1.14	1.37	0.88	1.67	2.15	1.51	1.11	0.81	0.71	0.72	0.62	
28	0.66	0.82	1.08	0.88	5.05	2.40	1.46	1.10	0.81	0.70	0.72	0.62	
29	0.64	0.76	0.97	0.85	4.80	2.04	1.45	1.07	0.81	0.70	0.72	0.62	
30	0.64	0.73	0.90	0.85	2.83	2.01	1.42	1.05	0.80	0.70		0.61	
31		0.74		0.86	2.09		1.49		0.80	0.70		0.61	
MEAN	0.69	0.79	1.12	1.28	1.62	2.88	2.01	1.39	0.88	0.73	0.72	0.67	
MAX	1.15	1.22	2.60	3.35	5.05	7.36	2.60	1.84	1.01	0.79	0.79	0.88	7.36
MIN	0.61	0.62	0.71	0.85	0.77	1.50	1.42	1.05	0.80	0.70	0.67	0.61	0.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.51 M (A.D), AT 10.00 HOURS, ON SEP 11, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.73 M (A.D)
LEFT BANK ELEVATION 11.93 M (A.D)
RIGHT BANK ELEVATION 9.40 M (A.D), DRAINAGE AREA 530 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.20	0.42	1.15	1.09	11.87	16.90	6.85	1.78	0.57	0.30	0.30	
2	0.24	0.18	0.33	1.26	1.09	9.15	26.44	7.28	1.65	0.57	0.30	0.29	
3	0.24	0.18	0.45	1.37	0.99	8.64	19.02	12.38	1.59	0.54	0.30	0.27	
4	0.22	0.18	1.04	12.72	0.93	7.72	14.54	8.81	1.54	0.51	0.30	0.33	
5	0.21	0.71	0.76	13.97	0.82	6.85	24.13	5.98	1.48	0.48	0.30	1.04	
6	0.21	1.65	0.57	9.83	0.71	19.45	28.60	4.80	1.42	0.48	0.29	0.54	
7	0.20	3.05	1.04	11.36	0.60	92.00	17.51	4.20	1.32	0.48	0.36	0.45	
8	0.18	3.40	0.99	7.72	0.60	46.64	13.97	8.98	1.26	0.45	0.42	0.36	
9	0.18	1.09	0.99	4.44	0.57	20.53	12.38	12.38	1.21	0.45	0.42	0.30	
10	0.18	1.42	0.82	4.32	0.51	123.92	12.21	6.27	1.21	0.45	0.45	0.29	
11	0.18	1.21	0.82	3.40	0.54	250.98	19.88	4.92	1.21	0.42	0.57	0.24	
12	0.17	1.15	0.66	3.05	0.57	174.93	27.40	5.16	1.21	0.42	0.54	0.24	
13	0.17	0.76	0.60	49.30	1.92	67.85	23.44	6.27	1.15	0.39	0.48	0.24	
14	0.17	0.45	0.57	14.73	12.38	33.02	17.73	9.15	1.09	0.39	0.45	0.22	
15	0.18	0.39	0.93	7.14	4.20	32.76	22.29	8.01	1.04	0.39	0.39	0.22	
16	0.51	0.36	7.00	3.80	2.67	24.82	16.90	5.83	1.04	0.39	0.36	0.22	
17	0.33	0.30	8.98	3.13	6.27	27.16	18.81	6.27	0.99	0.36	0.36	0.22	
18	0.33	0.27	4.20	3.30	11.53	36.40	17.51	5.28	0.93	0.36	0.36	0.22	
19	2.82	0.26	5.69	2.90	10.68	30.94	18.16	5.55	0.88	0.36	0.36	0.22	
20	1.37	0.26	6.85	2.67	21.60	34.32	20.31	4.44	0.88	0.36	0.33	0.21	
21	0.57	0.26	28.60	2.15	13.40	33.02	17.95	3.90	0.88	0.33	0.29	0.20	
22	0.36	0.26	15.11	1.78	7.43	23.90	16.50	3.50	0.82	0.33	0.29	0.18	
23	0.29	0.26	5.28	1.54	7.57	46.06	14.35	3.70	0.76	0.33	0.27	0.18	
24	0.29	0.24	2.82	1.54	11.53	30.94	13.06	3.50	0.71	0.33	0.26	0.18	
25	0.29	0.30	2.00	1.32	26.44	23.21	9.15	2.97	0.71	0.33	0.27	0.20	
26	0.22	0.42	5.98	1.15	14.92	20.10	8.01	2.82	0.66	0.33	0.33	0.20	
27	0.33	2.75	5.04	1.04	9.49	18.38	7.00	2.52	0.66	0.33	0.36	0.18	
28	0.24	0.71	2.30	1.04	112.88	23.90	6.27	2.45	0.66	0.30	0.36	0.18	
29	0.21	0.48	1.54	0.88	101.50	16.10	6.13	2.23	0.66	0.30	0.36	0.18	
30	0.21	0.39	1.15	0.88	34.58	15.50	5.69	2.07	0.60	0.30		0.17	
31		0.42		0.93	17.10		6.71		0.60	0.30		0.17	
TOTAL	11.36	23.96	113.53	175.81	437.11	1311.06	498.95	168.47	32.60	12.33	10.43	8.44	2804.05 CMSDAY
MEAN	0.38	0.77	3.78	5.67	14.10	43.70	16.10	5.62	1.05	0.40	0.36	0.27	7.66 CMS
MAX	2.82	3.40	28.60	49.30	112.88	250.98	28.60	12.38	1.78	0.57	0.57	1.04	250.98 CMS
MIN	0.17	0.18	0.33	0.88	0.51	6.85	5.69	2.07	0.60	0.30	0.26	0.17	0.17 CMS
RUNOFF	0.982	2.070	9.809	15.190	37.766	113.276	43.109	14.556	2.817	1.065	0.901	0.729	242.270 MCM

MOMENTARY PEAK 261.74 CMS, AT 7.51 M (A.D), AT 10.00 HOURS, ON SEP 11, 1987
RUNOFF YIELD 14.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 493.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

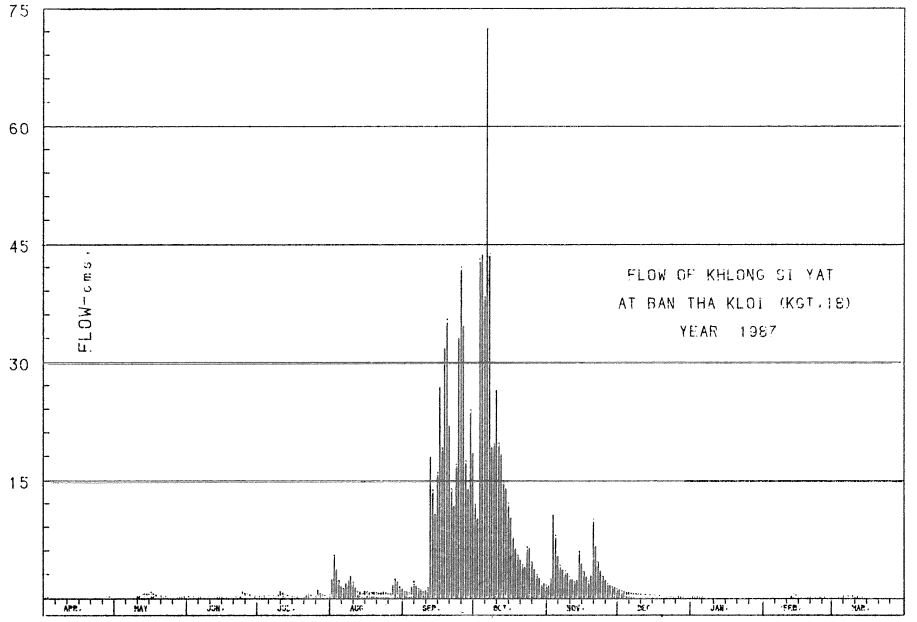
KHLONG SI YAT AT BAN THA KLOI, CHACHOENGSAO (KGT.18)

LOCATION	LAT. 13°-28'-29" N., LONG. 101°-37'-44" E., ON LEFT BANK AT BAN THA KLOI, AMPHOE BANAM CHAI KHET, CHACHOENGSAO.
DRAINAGE AREA	951 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	UNDER THE COCONUT TREE INFRONT OF THE STATION OFFICE.
ELEVATION	+7.213 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 160 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.86	0.81	0.93	0.95	1.52	1.20	2.57	1.35	1.24	0.90	0.79	0.83	
2	0.85	0.83	0.94	0.94	1.95	1.17	2.41	1.53	1.22	0.90	0.79	0.82	
3	0.83	0.83	0.92	1.02	1.71	1.15	4.25	2.46	1.19	0.90	0.79	0.80	
4	0.81	0.83	0.92	1.01	1.50	1.32	4.27	2.22	1.16	0.89	0.79	0.81	
5	0.81	0.84	0.94	1.02	1.34	1.48	4.05	1.93	1.15	0.89	0.79	0.97	
6	0.80	0.84	0.94	0.99	1.29	1.35	5.22	1.79	1.12	0.89	0.79	1.00	
7	0.79	0.86	0.93	0.99	1.41	1.28	4.28	1.70	1.10	0.88	0.79	0.95	
8	0.78	0.86	0.92	0.99	1.48	1.24	3.07	1.69	1.09	0.88	0.79	0.99	
9	0.78	0.86	0.92	1.01	1.59	1.19	3.10	1.64	1.07	0.88	0.79	0.97	
10	0.77	1.17	0.91	1.19	1.46	1.21	3.49	1.58	1.06	0.87	0.79	0.91	
11	0.77	1.00	0.90	1.13	1.31	1.31	3.11	1.51	1.05	0.86	0.80	0.90	
12	0.76	1.07	0.89	1.05	1.21	2.99	3.01	1.46	1.04	0.86	1.06	0.87	
13	0.76	1.10	1.01	1.01	1.16	2.70	2.78	1.49	1.03	0.86	1.08	0.86	
14	0.76	1.09	0.96	0.97	1.12	2.47	2.71	2.01	1.02	0.86	1.00	0.85	
15	0.75	1.09	0.91	0.95	1.20	2.86	2.58	1.81	1.00	0.87	0.84	0.85	
16	0.73	1.18	0.89	0.93	1.19	3.51	2.42	1.67	0.99	0.85	0.91	0.82	
17	0.72	1.11	0.88	0.92	1.13	3.07	2.22	1.57	0.99	0.83	0.90	0.81	
18	0.72	1.04	0.88	0.90	1.16	3.76	2.04	1.48	0.97	0.83	0.89	0.81	
19	0.72	1.00	0.88	0.89	1.16	3.93	1.95	1.59	0.97	0.83	0.88	0.80	
20	0.71	0.98	0.89	0.90	1.15	3.24	1.87	2.41	0.97	0.83	0.88	0.81	
21	0.72	0.98	0.91	1.16	1.12	2.71	1.80	2.08	0.96	0.83	0.88	0.80	
22	0.81	0.96	0.91	1.07	1.13	2.55	1.75	1.84	0.95	0.82	0.87	0.80	
23	0.83	0.93	1.12	1.01	1.16	2.93	2.07	1.68	0.95	0.81	0.86	0.80	
24	0.84	0.92	1.17	0.95	1.14	3.82	2.05	1.58	0.94	0.81	0.86	0.79	
25	0.84	0.91	1.12	0.99	1.11	4.21	1.84	1.49	0.93	0.81	0.86	0.78	
26	0.85	0.89	1.09	1.24	1.11	3.89	1.71	1.42	0.93	0.80	0.85	0.77	
27	0.93	0.89	1.05	1.11	1.37	2.96	1.62	1.36	0.92	0.79	0.84	0.77	
28	0.89	0.90	1.01	1.04	1.53	2.70	1.54	1.34	0.92	0.79	0.83	0.75	
29	0.86	0.92	0.98	0.99	1.46	3.36	1.46	1.31	0.92	0.81	0.83	0.74	
30	0.84	0.92	0.96	0.96	1.34	3.02	1.41	1.28	0.92	0.80		0.73	
31		0.93		1.04	1.26		1.38		0.91	0.79		0.73	
MEAN	0.80	0.95	0.96	1.01	1.32	2.49	2.58	1.68	1.02	0.85	0.86	0.84	
MAX	0.93	1.18	1.17	1.24	1.95	4.21	5.22	2.46	1.24	0.90	1.08	1.00	5.22
MIN	0.71	0.81	0.88	0.89	1.11	1.15	1.38	1.28	0.91	0.79	0.79	0.73	0.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.40 M (A.D), AT 18.00 HOURS, ON OCT 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.15 M (A.D)
LEFT BANK ELEVATION 7.42 M (A.D)
RIGHT BANK ELEVATION 6.92 M (A.D), DRAINAGE AREA 951 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.11	0.26	0.30	2.42	0.90	11.98	1.55	1.06	0.20	0.09	0.13	
2	0.15	0.13	0.28	0.28	5.50	0.81	10.10	2.48	0.98	0.20	0.09	0.12	
3	0.13	0.13	0.24	0.44	3.67	0.75	43.15	10.60	0.87	0.20	0.09	0.10	
4	0.11	0.13	0.24	0.42	2.30	1.40	43.65	8.02	0.78	0.19	0.09	0.11	
5	0.11	0.14	0.28	0.44	1.50	2.20	38.30	5.34	0.75	0.19	0.09	0.34	
6	0.10	0.14	0.28	0.38	1.26	1.55	72.44	4.23	0.66	0.19	0.09	0.40	
7	0.09	0.16	0.26	0.38	1.85	1.22	43.90	3.60	0.60	0.18	0.09	0.30	
8	0.08	0.16	0.24	0.38	2.20	1.06	19.15	3.53	0.58	0.18	0.09	0.38	
9	0.08	0.16	0.24	0.42	2.84	0.87	19.60	3.18	0.54	0.18	0.09	0.34	
10	0.07	0.81	0.22	0.87	2.10	0.94	26.41	2.78	0.52	0.17	0.09	0.22	
11	0.07	0.40	0.20	0.69	1.35	1.35	19.76	2.36	0.50	0.16	0.10	0.20	
12	0.06	0.54	0.19	0.50	0.94	17.95	18.25	2.10	0.48	0.16	0.52	0.17	
13	0.06	0.60	0.42	0.42	0.78	13.80	14.92	2.25	0.46	0.16	0.56	0.16	
14	0.06	0.58	0.32	0.34	0.66	10.70	13.94	5.99	0.44	0.16	0.40	0.15	
15	0.05	0.58	0.22	0.30	0.90	16.04	12.12	4.38	0.40	0.17	0.14	0.15	
16	0.03	0.84	0.19	0.26	0.87	26.79	10.20	3.39	0.38	0.15	0.22	0.12	
17	0.02	0.63	0.18	0.24	0.69	19.15	8.02	2.72	0.38	0.13	0.20	0.11	
18	0.02	0.48	0.18	0.20	0.78	31.76	6.26	2.20	0.34	0.13	0.19	0.11	
19	0.02	0.40	0.18	0.19	0.78	35.49	5.50	2.84	0.34	0.13	0.18	0.10	
20	0.01	0.36	0.19	0.20	0.75	21.88	4.86	10.10	0.34	0.13	0.18	0.11	
21	0.02	0.36	0.22	0.78	0.66	13.94	4.30	6.62	0.32	0.13	0.18	0.10	
22	0.11	0.32	0.22	0.54	0.69	11.70	3.95	4.62	0.30	0.12	0.17	0.10	
23	0.13	0.26	0.66	0.42	0.78	17.05	6.53	3.46	0.30	0.11	0.16	0.10	
24	0.14	0.24	0.81	0.30	0.72	33.04	6.35	2.78	0.28	0.11	0.16	0.09	
25	0.14	0.22	0.66	0.38	0.63	42.15	4.62	2.25	0.26	0.11	0.16	0.08	
26	0.15	0.19	0.58	1.06	0.63	34.58	3.67	1.90	0.26	0.10	0.15	0.07	
27	0.26	0.19	0.50	0.63	1.65	17.50	3.04	1.60	0.24	0.09	0.14	0.07	
28	0.19	0.20	0.42	0.48	2.48	13.80	2.54	1.50	0.24	0.09	0.13	0.05	
29	0.16	0.24	0.36	0.38	2.10	23.98	2.10	1.35	0.24	0.11	0.13	0.04	
30	0.14	0.24	0.32	0.32	1.50	18.40	1.85	1.22	0.24	0.10		0.03	
31		0.26		0.48	1.14		1.70		0.22	0.09		0.03	
TOTAL	2.92	10.20	9.56	13.42	47.12	432.75	483.16	110.94	14.30	4.52	4.97	4.58	1138.44 CMSDAY
MEAN	0.10	0.33	0.32	0.43	1.52	14.43	15.59	3.70	0.46	0.15	0.17	0.15	3.11 CMS
MAX	0.26	0.84	0.81	1.06	5.50	42.15	72.44	10.60	1.06	0.20	0.56	0.40	72.44 CMS
MIN	0.01	0.11	0.18	0.19	0.63	0.75	1.70	1.22	0.22	0.09	0.09	0.03	0.01 CMS
RUNOFF	0.252	0.881	0.826	1.159	4.071	37.390	41.745	9.585	1.236	0.391	0.429	0.396	98.361 MCM

MOMENTARY PEAK 79.20 CMS, AT 5.40 M (A.D), AT 18.00 HOURS, ON OCT 6, 1987

RUNOFF YIELD 3.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 83.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

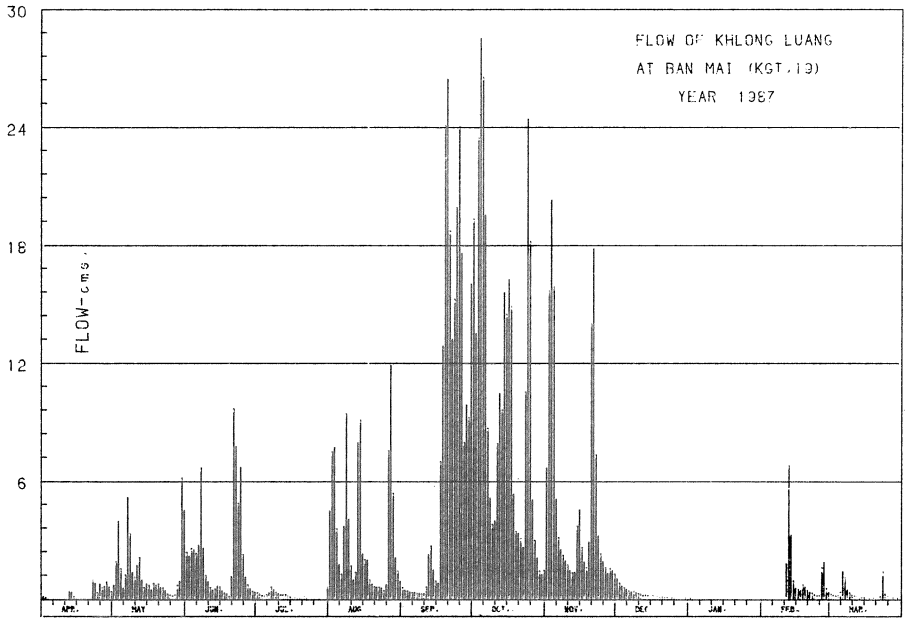
KHLONG LUANG AT BAN MAI, CHON BURI (KGT.19)

LOCATION	LAT. 13°-23'-17" N., LONG. 101°-20'-40" E., ON LEFT BANK ABOUT 4 KILOMETERS EAST OF KHOK PHO MARKET AND ABOUT 16 KILOMETERS FROM AMPHOE PHANAT NIKHOM, CHON BURI.
DRAINAGE AREA	935 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+20.124 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	BESIDE THE METEOROLOGICAL STATION.
ELEVATION	+25.658 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 - 1974, 1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 - 1974, 1987 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 124 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL.1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	20.63	20.93	21.45	20.75	21.93	20.88	24.23	22.35	21.05	20.58	20.52	20.71	
2	20.60	21.32	21.40	20.71	22.50	20.81	23.43	23.74	20.97	20.57	20.54	20.68	
3	20.57	21.82	21.50	20.67	22.54	20.79	24.76	24.36	20.91	20.56	20.52	20.65	
4	20.55	21.22	21.48	20.65	21.73	20.76	25.36	23.77	20.87	20.56	20.52	20.67	
5	20.53	20.86	21.44	20.70	21.28	20.75	25.13	22.05	20.83	20.56	20.53	20.76	
6	20.51	21.12	21.54	20.74	21.13	20.75	24.26	21.63	20.79	20.56	20.52	21.18	
7	20.50	22.07	22.35	20.90	21.76	20.73	22.70	21.48	20.76	20.55	20.58	21.07	
8	20.50	21.68	21.50	20.82	22.82	20.73	22.06	21.41	20.78	20.55	20.60	20.82	
9	20.50	21.16	21.11	20.76	21.84	20.72	21.78	21.33	20.75	20.54	20.57	20.75	
10	20.50	21.08	21.00	20.73	21.26	20.73	21.82	21.27	20.73	20.54	20.54	20.69	
11	20.50	21.27	20.88	20.70	21.03	20.90	22.57	21.19	20.71	20.54	21.29	20.66	
12	20.80	21.38	20.81	20.70	21.16	21.42	22.98	21.15	20.68	20.54	22.37	20.63	
13	20.76	21.03	20.84	20.70	22.58	21.53	22.85	21.16	20.68	20.54	21.66	20.55	
14	20.64	20.88	20.91	20.66	22.77	21.20	23.73	21.76	20.67	20.54	21.02	20.60	
15	20.56	20.96	20.90	20.62	21.43	21.01	23.57	21.94	20.65	20.54	20.86	20.59	
16	20.57	20.93	20.79	20.60	21.35	20.97	23.82	21.51	20.65	20.53	20.84	20.57	
17	20.58	20.82	20.74	20.59	21.34	22.41	23.63	21.31	20.64	20.52	20.80	20.57	
18	20.58	20.97	20.72	20.58	21.03	23.34	22.10	21.23	20.63	20.52	20.94	20.58	
19	20.57	20.93	20.64	20.57	20.95	24.84	21.70	21.58	20.62	20.53	20.89	20.56	
20	20.52	20.95	21.09	20.57	20.90	25.12	21.68	23.50	20.62	20.53	20.81	20.56	
21	20.52	20.88	22.86	20.63	20.89	24.15	21.62	24.03	20.61	20.53	20.76	20.56	
22	21.04	20.87	22.55	20.60	20.89	23.39	21.51	22.47	20.60	20.53	20.74	20.63	
23	20.97	20.80	22.01	20.57	20.86	23.68	22.99	21.65	20.60	20.52	20.70	21.17	
24	20.75	20.72	22.36	20.56	20.80	24.31	24.88	21.43	20.60	20.53	20.67	20.72	
25	20.95	20.69	21.42	20.53	20.94	24.83	24.08	21.32	20.60	20.53	20.67	20.64	
26	20.88	20.66	21.08	20.52	22.51	24.00	22.04	21.23	20.58	20.52	21.23	20.61	
27	20.91	20.69	20.94	20.54	23.20	22.58	21.60	21.14	20.57	20.52	21.31	20.59	
28	21.00	20.93	20.85	20.52	22.11	22.89	21.37	21.22	20.57	20.54	20.86	20.58	
29	20.90	21.01	20.79	20.52	21.38	22.79	21.18	21.19	20.56	20.54	20.75	20.58	
30	20.78	22.26	20.76	20.51	21.18	23.79	21.12	21.13	20.59	20.52		20.56	
31		21.94		20.90	21.01		21.19		20.57	20.52		20.55	
MEAN	20.67	21.12	21.29	20.65	21.58	22.23	22.83	21.88	20.69	20.54	20.85	20.68	
MAX	21.04	22.26	22.86	20.90	23.20	25.12	25.36	24.36	21.05	20.58	22.37	21.18	25.36
MIN	20.50	20.66	20.64	20.51	20.80	20.72	21.12	21.13	20.56	20.52	20.52	20.55	20.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.43 M (MSL), AT 22.00 HOURS, ON OCT 3, 1987
ZERO GAGE AT BOTTOM ELEVATION 20.12 M (MSL), RIVER BED 20.48 M (MSL)
LEFT BANK ELEVATION 26.40 M (MSL)
RIGHT BANK ELEVATION 26.33 M (MSL), DRAINAGE AREA 535 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.73	2.40	0.35	4.50	0.61	19.33	6.68	1.05	0.08	0.02	0.27	
2	0.10	1.92	2.20	0.27	7.50	0.47	13.51	15.68	0.83	0.07	0.04	0.22	
3	0.07	3.99	2.60	0.20	7.74	0.43	23.48	20.30	0.68	0.06	0.02	0.18	
4	0.05	1.57	2.52	0.18	3.59	0.37	28.54	15.89	0.59	0.06	0.02	0.20	
5	0.03	0.57	2.36	0.25	1.78	0.35	26.56	5.10	0.51	0.06	0.03	0.37	
6	0.01	1.26	2.76	0.33	1.29	0.35	19.55	3.14	0.43	0.06	0.02	1.44	
7	0.00	5.20	6.68	0.65	3.72	0.31	8.70	2.52	0.37	0.05	0.08	1.11	
8	0.00	3.36	2.60	0.49	9.43	0.31	5.15	2.24	0.41	0.05	0.10	0.49	
9	0.00	1.38	1.23	0.37	4.08	0.29	3.81	1.96	0.35	0.04	0.07	0.35	
10	0.00	1.14	0.90	0.31	1.71	0.31	3.99	1.75	0.31	0.04	0.04	0.23	
11	0.00	1.75	0.61	0.25	0.99	0.65	7.92	1.47	0.27	0.04	1.82	0.19	
12	0.45	2.13	0.47	0.25	1.38	2.28	10.47	1.35	0.22	0.04	6.79	0.15	
13	0.37	0.99	0.53	0.25	7.98	2.72	9.63	1.38	0.22	0.04	3.27	0.05	
14	0.16	0.61	0.68	0.19	9.12	1.50	15.61	3.72	0.20	0.04	0.96	0.10	
15	0.06	0.80	0.65	0.13	2.32	0.93	14.49	4.55	0.18	0.04	0.57	0.09	
16	0.07	0.73	0.43	0.10	2.03	0.83	16.25	2.64	0.18	0.03	0.53	0.07	
17	0.08	0.49	0.33	0.09	1.99	7.01	14.91	1.89	0.16	0.02	0.45	0.07	
18	0.08	0.83	0.29	0.08	0.99	12.88	5.35	1.61	0.15	0.02	0.75	0.08	
19	0.07	0.73	0.16	0.07	0.78	24.12	3.45	2.92	0.13	0.03	0.63	0.06	
20	0.02	0.78	1.17	0.07	0.65	26.47	3.36	14.00	0.13	0.03	0.47	0.06	
21	0.02	0.61	9.69	0.15	0.63	18.73	3.09	17.83	0.12	0.03	0.37	0.06	
22	1.02	0.59	7.80	0.10	0.63	13.23	2.64	7.34	0.10	0.03	0.33	0.15	
23	0.83	0.45	4.90	0.07	0.57	15.26	10.54	3.23	0.10	0.02	0.25	1.41	
24	0.35	0.29	6.73	0.06	0.45	19.93	24.44	2.32	0.10	0.03	0.20	0.29	
25	0.78	0.23	2.28	0.03	0.75	24.04	18.20	1.92	0.10	0.03	0.20	0.16	
26	0.61	0.19	1.14	0.02	7.56	17.60	5.05	1.61	0.08	0.02	1.61	0.12	
27	0.68	0.23	0.75	0.04	11.90	7.98	3.00	1.32	0.07	0.02	1.89	0.09	
28	0.90	0.73	0.55	0.02	5.40	9.89	2.10	1.57	0.07	0.04	0.57	0.08	
29	0.65	0.93	0.43	0.02	2.13	9.24	1.44	1.47	0.06	0.04	0.35	0.08	
30	0.41	6.18	0.37	0.01	1.44	16.03	1.26	1.29	0.09	0.02		0.06	
31		4.55		0.65	0.93		1.47		0.07	0.02		0.05	
TOTAL	8.02	45.94	66.21	6.05	105.96	235.12	327.29	150.69	8.33	1.20	22.45	8.33	985.59 CMSDAY
MEAN	0.27	1.48	2.21	0.20	3.42	7.84	10.56	5.02	0.27	0.04	0.77	0.27	2.69 CMS
MAX	1.02	6.18	9.69	0.65	11.90	26.47	28.54	20.30	1.05	0.08	6.79	1.44	28.54 CMS
MIN	0.00	0.19	0.16	0.01	0.45	0.29	1.26	1.29	0.06	0.02	0.02	0.05	0.00 CMS
RUNOFF	0.693	3.969	5.721	0.523	9.155	20.314	28.278	13.020	0.720	0.104	1.940	0.720	85.155 MCM

MOMENTARY PEAK 29.19 CMS, AT 25.43 M (MSL), AT 22.00 HOURS, ON OCT 3, 1987

RUNOFF YIELD 5.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 54.55 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG RABOM AT BAN CHAM PA NGAM, CHACHOENGSAO (KGT.25)

LOCATION — LAT. 13°-41'-09" N., LONG. 101°-36'-32" E., ON LEFT BANK AT BAN CHAM PA NGAM, AMPHOE BANAM CHAI KHET, CHACHOENGSAO

DRAINAGE AREA — 243 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +16.800 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK INFRONT OF THE THIRD STAFF GAGE.

ELEVATION — +21.631 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.

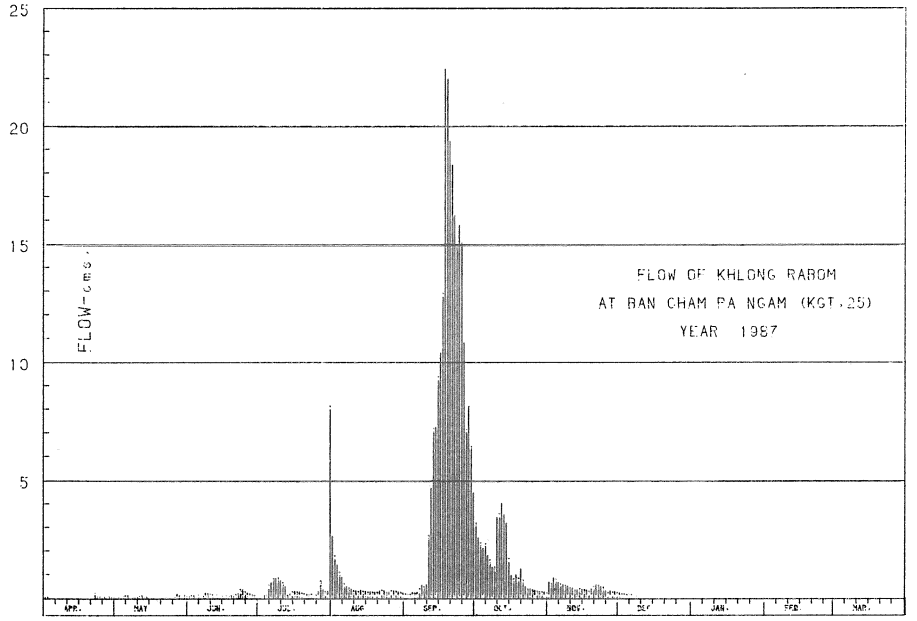
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +21.38 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. THE MEASURING LINE ABOUT 300 METERS DOWNSTREAM FROM THE LOCAL RESIDENT WEIR. STAGE-DISCHARGE RELATION DEFINED BY 131 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	17.37	17.36	17.41	17.43	18.61	17.50	18.75	17.85	17.53	17.28	17.23	17.12	
2	17.36	17.36	17.44	17.43	18.34	17.47	18.59	17.82	17.50	17.28	17.23	17.11	
3	17.36	17.37	17.43	17.43	18.21	17.48	18.52	17.94	17.50	17.27	17.23	17.11	
4	17.35	17.37	17.42	17.45	18.06	17.55	18.44	17.91	17.47	17.27	17.23	17.11	
5	17.35	17.43	17.45	17.79	17.95	17.54	18.51	17.84	17.48	17.27	17.23	17.11	
6	17.34	17.42	17.43	17.84	17.82	17.56	18.34	17.81	17.47	17.27	17.23	17.11	
7	17.34	17.38	17.41	17.93	17.75	17.71	18.28	17.79	17.43	17.27	17.22	17.11	
8	17.33	17.37	17.53	17.93	17.73	17.78	18.16	17.78	17.41	17.27	17.22	17.11	
9	17.33	17.37	17.51	17.94	17.69	17.75	18.17	17.76	17.40	17.27	17.22	17.11	
10	17.34	17.37	17.49	17.88	17.65	17.79	18.81	17.73	17.39	17.25	17.22	17.11	
11	17.35	17.41	17.47	17.84	17.63	18.62	18.85	17.72	17.38	17.25	17.21	17.11	
12	17.36	17.43	17.46	17.75	17.61	19.12	18.96	17.67	17.38	17.25	17.21	17.11	
13	17.35	17.39	17.45	17.44	17.65	19.66	18.84	17.65	17.33	17.25	17.21	17.11	
14	17.24	17.38	17.44	17.49	17.62	19.67	18.75	17.71	17.32	17.25	17.21	17.10	
15	17.34	17.37	17.43	17.59	17.60	20.10	18.30	17.68	17.31	17.25	17.21	17.10	
16	17.33	17.36	17.43	17.61	17.58	20.30	17.99	17.68	17.29	17.24	17.23	17.09	
17	17.31	17.36	17.43	17.59	17.58	20.72	17.92	17.65	17.30	17.24	17.19	17.08	
18	17.30	17.36	17.43	17.58	17.58	21.52	18.00	17.61	17.30	17.24	17.19	17.08	
19	17.28	17.36	17.43	17.54	17.57	21.51	17.93	17.70	17.30	17.24	17.19	17.07	
20	17.28	17.36	17.44	17.50	17.57	21.38	18.13	17.76	17.30	17.24	17.19	17.06	
21	17.30	17.36	17.48	17.48	17.62	21.33	17.89	17.79	17.30	17.23	17.19	17.07	
22	17.56	17.36	17.50	17.47	17.66	21.14	17.75	17.78	17.30	17.23	17.18	17.07	
23	17.40	17.35	17.70	17.49	17.63	21.01	17.70	17.75	17.30	17.23	17.18	17.07	
24	17.39	17.35	17.67	17.46	17.57	21.10	17.70	17.74	17.30	17.23	17.18	17.06	
25	17.38	17.37	17.60	17.45	17.56	21.03	17.67	17.62	17.30	17.23	17.16	17.05	
26	17.37	17.36	17.53	17.59	17.64	20.37	17.64	17.56	17.29	17.23	17.15	17.05	
27	17.38	17.48	17.50	17.88	17.63	19.65	17.61	17.62	17.28	17.23	17.14	17.04	
28	17.37	17.42	17.47	17.66	17.62	19.85	17.59	17.58	17.28	17.23	17.12	17.04	
29	17.37	17.38	17.44	17.61	17.58	19.51	17.59	17.60	17.28	17.23	17.12	17.03	
30	17.37	17.45	17.43	17.61	17.57	19.07	17.56	17.56	17.28	17.23		17.02	
31		17.42		19.85	17.54		17.54		17.28	17.23		17.01	
MEAN	17.35	17.38	17.48	17.69	17.72	19.43	18.14	17.72	17.35	17.25	17.20	17.08	
MAX	17.56	17.48	17.70	19.85	18.61	21.52	18.96	17.94	17.53	17.28	17.23	17.12	21.52
MIN	17.24	17.35	17.41	17.43	17.54	17.47	17.54	17.56	17.28	17.23	17.12	17.01	17.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 21.59 M (MSL), AT 18.00 HOURS, ON SEP 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 16.80 M (MSL), RIVER BED 16.67 M (MSL)
LEFT BANK ELEVATION 22.08 M (MSL)
RIGHT BANK ELEVATION 21.37 M (MSL), DRAINAGE AREA 243 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.06	0.11	0.13	2.64	0.20	3.20	0.70	0.23	0.00	0.00	0.00	
2	0.06	0.06	0.14	0.13	1.82	0.17	2.57	0.64	0.20	0.00	0.00	0.00	
3	0.06	0.07	0.13	0.13	1.43	0.18	2.36	0.88	0.20	0.00	0.00	0.00	
4	0.05	0.07	0.12	0.15	1.12	0.25	2.12	0.82	0.17	0.00	0.00	0.00	
5	0.05	0.13	0.15	0.58	0.90	0.24	2.33	0.68	0.18	0.00	0.00	0.00	
6	0.04	0.12	0.13	0.68	0.64	0.26	1.82	0.62	0.17	0.00	0.00	0.00	
7	0.04	0.08	0.11	0.86	0.50	0.42	1.64	0.58	0.13	0.00	0.00	0.00	
8	0.03	0.07	0.23	0.86	0.46	0.56	1.32	0.56	0.11	0.00	0.00	0.00	
9	0.03	0.07	0.21	0.88	0.39	0.50	1.34	0.52	0.10	0.00	0.00	0.00	
10	0.04	0.07	0.19	0.76	0.35	0.58	3.44	0.46	0.09	0.00	0.00	0.00	
11	0.05	0.11	0.17	0.68	0.33	2.68	3.60	0.44	0.08	0.00	0.00	0.00	
12	0.06	0.13	0.16	0.50	0.31	4.68	4.04	0.37	0.08	0.00	0.00	0.00	
13	0.05	0.09	0.15	0.14	0.35	7.20	3.56	0.35	0.03	0.00	0.00	0.00	
14	0.00	0.08	0.14	0.19	0.32	7.25	3.20	0.42	0.02	0.00	0.00	0.00	
15	0.04	0.07	0.13	0.29	0.30	9.40	1.70	0.38	0.01	0.00	0.00	0.00	
16	0.03	0.06	0.13	0.31	0.28	10.40	0.98	0.38	0.00	0.00	0.00	0.00	
17	0.01	0.06	0.13	0.29	0.28	12.92	0.84	0.35	0.00	0.00	0.00	0.00	
18	0.00	0.06	0.13	0.28	0.28	22.42	1.00	0.31	0.00	0.00	0.00	0.00	
19	0.00	0.06	0.13	0.24	0.27	22.16	0.86	0.40	0.00	0.00	0.00	0.00	
20	0.00	0.06	0.14	0.20	0.27	19.36	1.26	0.52	0.00	0.00	0.00	0.00	
21	0.00	0.06	0.18	0.18	0.32	18.51	0.78	0.58	0.00	0.00	0.00	0.00	
22	0.26	0.06	0.20	0.17	0.36	16.20	0.50	0.56	0.00	0.00	0.00	0.00	
23	0.10	0.05	0.40	0.19	0.33	14.99	0.40	0.50	0.00	0.00	0.00	0.00	
24	0.09	0.05	0.37	0.16	0.27	15.80	0.40	0.48	0.00	0.00	0.00	0.00	
25	0.08	0.07	0.30	0.15	0.26	15.17	0.37	0.32	0.00	0.00	0.00	0.00	
26	0.07	0.06	0.23	0.29	0.34	10.82	0.34	0.26	0.00	0.00	0.00	0.00	
27	0.08	0.18	0.20	0.76	0.33	7.15	0.31	0.32	0.00	0.00	0.00	0.00	
28	0.07	0.12	0.17	0.36	0.32	8.15	0.29	0.28	0.00	0.00	0.00	0.00	
29	0.07	0.08	0.14	0.31	0.28	6.45	0.29	0.30	0.00	0.00	0.00	0.00	
30	0.07	0.15	0.13	0.31	0.27	4.48	0.26	0.26	0.00	0.00		0.00	
31		0.12		8.15	0.24		0.24		0.00	0.00		0.00	
TOTAL	1.60	2.58	5.25	19.31	16.56	239.55	47.36	14.24	1.80	0.00	0.00	0.00	348.25 CMSDAY
MEAN	0.05	0.08	0.18	0.62	0.53	7.99	1.53	0.47	0.06	0.00	0.00	0.00	0.95 CMS
MAX	0.26	0.18	0.40	8.15	2.64	22.42	4.04	0.88	0.23	0.00	0.00	0.00	22.42 CMS
MIN	0.00	0.05	0.11	0.13	0.24	0.17	0.24	0.26	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.138	0.223	0.454	1.668	1.431	20.697	4.092	1.230	0.156	0.000	0.000	0.000	30.089 MCM

MOMENTARY PEAK 24.24 CMS, AT 21.59 M (MSL), AT 18.00 HOURS, ON SEP 18, 1987

RUNOFF YIELD 3.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 99.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG YANG AT BAN KHLONG YANG, NAKHON NAYOK (KGT.27)

LOCATION — LAT. 14°-12'-02" N., LONG. 101°-22'-05" E., ON RIGHT BANK ATBAN KHLONG YANG, TAMBON UA HIN LAT, AMPHOE PAK PHLI, NAKHON NAYOK.

DRAINAGE AREA — 45 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +11.50 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ON THE TOP STAFF GAGE.

ELEVATION — +15.367 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 — 1982 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 131 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL). WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

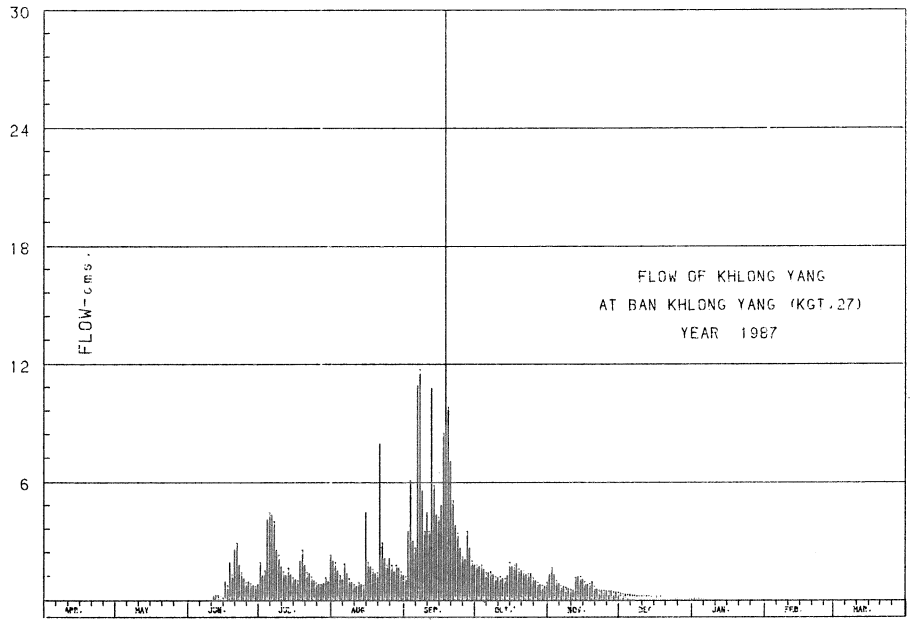
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.50	11.44	11.40	12.16	12.17	12.04	12.14	12.06	11.86	11.78	11.73	11.69	
2	11.50	11.43	11.40	12.05	12.16	12.34	12.13	12.12	11.85	11.78	11.73	11.69	
3	11.49	11.42	11.41	12.10	12.10	12.56	12.14	12.06	11.84	11.78	11.73	11.69	
4	11.49	11.43	11.45	12.40	12.05	12.29	12.11	12.00	11.84	11.78	11.73	11.70	
5	11.48	11.48	11.48	12.43	12.01	12.25	12.08	11.97	11.84	11.78	11.74	11.70	
6	11.47	11.48	11.48	12.42	12.15	12.87	12.08	11.95	11.83	11.78	11.75	11.70	
7	11.46	11.50	11.48	12.39	12.07	12.93	12.09	11.94	11.83	11.77	11.74	11.70	
8	11.45	11.50	11.47	12.24	12.02	12.52	12.06	11.93	11.82	11.77	11.73	11.69	
9	11.46	11.49	11.47	12.21	11.98	12.34	12.04	11.92	11.82	11.77	11.73	11.69	
10	11.46	11.50	11.71	12.13	11.96	12.43	12.03	11.91	11.82	11.77	11.74	11.64	
11	11.45	11.49	11.83	12.09	11.94	12.34	12.04	11.90	11.82	11.77	11.75	11.63	
12	11.44	11.49	11.83	12.05	11.98	12.86	12.02	12.03	11.82	11.77	11.76	11.62	
13	11.44	11.48	11.83	12.12	11.96	12.54	12.02	12.04	11.82	11.76	11.74	11.62	
14	11.43	11.48	11.81	12.06	11.95	12.42	12.05	12.04	11.81	11.76	11.73	11.61	
15	11.42	11.48	11.79	12.03	12.43	12.41	12.16	12.01	11.81	11.76	11.72	11.60	
16	11.43	11.47	11.99	12.01	12.16	12.46	12.13	11.99	11.81	11.75	11.73	11.60	
17	11.46	11.46	11.95	12.00	12.13	12.72	12.14	11.96	11.81	11.75	11.72	11.59	
18	11.50	11.45	12.16	12.17	12.11	13.82	12.15	11.97	11.81	11.74	11.73	11.59	
19	11.53	11.44	12.06	12.24	12.07	12.79	12.11	11.99	11.80	11.75	11.73	11.58	
20	11.52	11.44	12.24	12.14	12.08	12.63	12.10	11.94	11.80	11.75	11.72	11.57	
21	11.51	11.43	12.28	12.08	12.69	12.48	12.10	11.91	11.80	11.75	11.72	11.56	
22	11.50	11.42	12.14	12.07	12.28	12.37	12.06	11.90	11.79	11.74	11.71	11.55	
23	11.51	11.40	12.08	12.04	12.19	12.33	12.07	11.90	11.79	11.74	11.71	11.55	
24	11.49	11.39	12.02	12.00	12.14	12.25	12.07	11.90	11.79	11.74	11.71	11.56	
25	11.48	11.38	11.98	11.98	12.19	12.20	12.03	11.89	11.79	11.74	11.71	11.60	
26	11.47	11.38	11.99	11.96	12.14	12.18	12.00	11.89	11.79	11.73	11.70	11.60	
27	11.46	11.40	11.97	11.96	12.09	12.34	11.98	11.89	11.79	11.73	11.70	11.59	
28	11.45	11.39	11.95	11.97	12.14	12.25	11.96	11.88	11.79	11.73	11.70	11.58	
29	11.45	11.42	11.94	12.03	12.12	12.17	11.95	11.87	11.78	11.73	11.70	11.58	
30	11.45	11.42	11.96	11.99	12.09	12.14	11.94	11.87	11.78	11.73		11.57	
31		11.41		12.21	12.05		11.98		11.78	11.73		11.56	
MEAN	11.47	11.44	11.82	12.12	12.12	12.48	12.06	11.95	11.81	11.76	11.73	11.62	
MAX	11.53	11.50	12.28	12.43	12.69	13.82	12.16	12.12	11.86	11.78	11.76	11.70	13.82
MIN	11.42	11.38	11.40	11.96	11.94	12.04	11.94	11.87	11.78	11.73	11.70	11.55	11.38

ANNUAL MAX MOMENTARY GAGE HEIGHT — 14.89 M (MSL), AT 8.00 HOURS, ON SEP 18, 1987

ZERO GAGE AT BOTTOM ELEVATION — 11.50 M (MSL), RIVER BED — 11.01 M (MSL)

LEFT BANK ELEVATION — 15.76 M (MSL)

RIGHT BANK ELEVATION — 14.71 M (MSL), DRAINAGE AREA — 45 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	1.92	1.99	1.20	1.78	1.30	0.36	0.09	0.00	0.00	
2	0.00	0.00	0.00	1.25	1.92	3.50	1.71	1.64	0.33	0.09	0.00	0.00	
3	0.00	0.00	0.00	1.50	1.50	6.08	1.78	1.30	0.29	0.09	0.00	0.00	
4	0.00	0.00	0.00	4.10	1.25	3.01	1.57	1.00	0.29	0.09	0.00	0.00	
5	0.00	0.00	0.00	4.46	1.05	2.65	1.40	0.85	0.29	0.09	0.00	0.00	
6	0.00	0.00	0.00	4.34	1.85	10.91	1.40	0.75	0.25	0.09	0.00	0.00	
7	0.00	0.00	0.00	4.00	1.35	11.72	1.45	0.70	0.25	0.06	0.00	0.00	
8	0.00	0.00	0.00	2.56	1.10	5.56	1.30	0.65	0.22	0.06	0.00	0.00	
9	0.00	0.00	0.00	2.29	0.90	3.50	1.20	0.60	0.22	0.06	0.00	0.00	
10	0.00	0.00	0.00	1.71	0.80	4.46	1.15	0.55	0.22	0.06	0.00	0.00	
11	0.00	0.00	0.25	1.45	0.70	3.50	1.20	0.50	0.22	0.06	0.00	0.00	
12	0.00	0.00	0.25	1.25	0.90	10.78	1.10	1.15	0.22	0.06	0.03	0.00	
13	0.00	0.00	0.25	1.64	0.80	5.82	1.10	1.20	0.22	0.03	0.00	0.00	
14	0.00	0.00	0.19	1.30	0.75	4.34	1.25	1.20	0.19	0.03	0.00	0.00	
15	0.00	0.00	0.12	1.15	4.46	4.22	1.92	1.05	0.19	0.03	0.00	0.00	
16	0.00	0.00	0.95	1.05	1.92	4.82	1.71	0.95	0.19	0.00	0.00	0.00	
17	0.00	0.00	0.75	1.00	1.71	8.48	1.78	0.80	0.19	0.00	0.00	0.00	
18	0.00	0.00	1.92	1.99	1.57	30.58	1.85	0.85	0.19	0.00	0.00	0.00	
19	0.00	0.00	1.30	2.56	1.35	9.81	1.57	0.95	0.15	0.00	0.00	0.00	
20	0.00	0.00	2.56	1.78	1.40	7.05	1.50	0.70	0.15	0.00	0.00	0.00	
21	0.00	0.00	2.92	1.40	7.95	5.06	1.50	0.55	0.15	0.00	0.00	0.00	
22	0.00	0.00	1.78	1.35	2.92	3.80	1.30	0.50	0.12	0.00	0.00	0.00	
23	0.00	0.00	1.40	1.20	2.13	3.40	1.35	0.50	0.12	0.00	0.00	0.00	
24	0.00	0.00	1.10	1.00	1.78	2.65	1.35	0.50	0.12	0.00	0.00	0.00	
25	0.00	0.00	0.90	0.90	2.13	2.20	1.15	0.47	0.12	0.00	0.00	0.00	
26	0.00	0.00	0.95	0.80	1.78	2.06	1.00	0.47	0.12	0.00	0.00	0.00	
27	0.00	0.00	0.85	0.80	1.45	3.50	0.90	0.47	0.12	0.00	0.00	0.00	
28	0.00	0.00	0.75	0.85	1.78	2.65	0.80	0.43	0.12	0.00	0.00	0.00	
29	0.00	0.00	0.70	1.15	1.64	1.99	0.75	0.40	0.09	0.00	0.00	0.00	
30	0.00	0.00	0.80	0.95	1.45	1.78	0.70	0.40	0.09	0.00		0.00	
31		0.00		2.29	1.25		0.90		0.09	0.00		0.00	
TOTAL	0.00	0.00	20.69	55.99	55.53	171.08	41.42	23.38	5.89	0.99	0.03	0.00	375.00 CMSDAY
MEAN	0.00	0.00	0.69	1.81	1.79	5.70	1.34	0.78	0.19	0.03	0.00	0.00	1.02 CMS
MAX	0.00	0.00	2.92	4.46	7.95	30.58	1.92	1.64	0.36	0.09	0.03	0.00	30.58 CMS
MIN	0.00	0.00	0.00	0.80	0.70	1.20	0.70	0.40	0.09	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	1.788	4.838	4.798	14.781	3.579	2.020	0.509	0.086	0.003	0.000	32.400 MCM

MOMENTARY PEAK 69.25 CMS, AT 14.89 M (MSL), AT 8.00 HOURS, ON SEP 18, 1987

RUNOFF YIELD 22.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1538.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG PRATONG AT BAN PRATONG, CHANTHABURI (KGT.29)

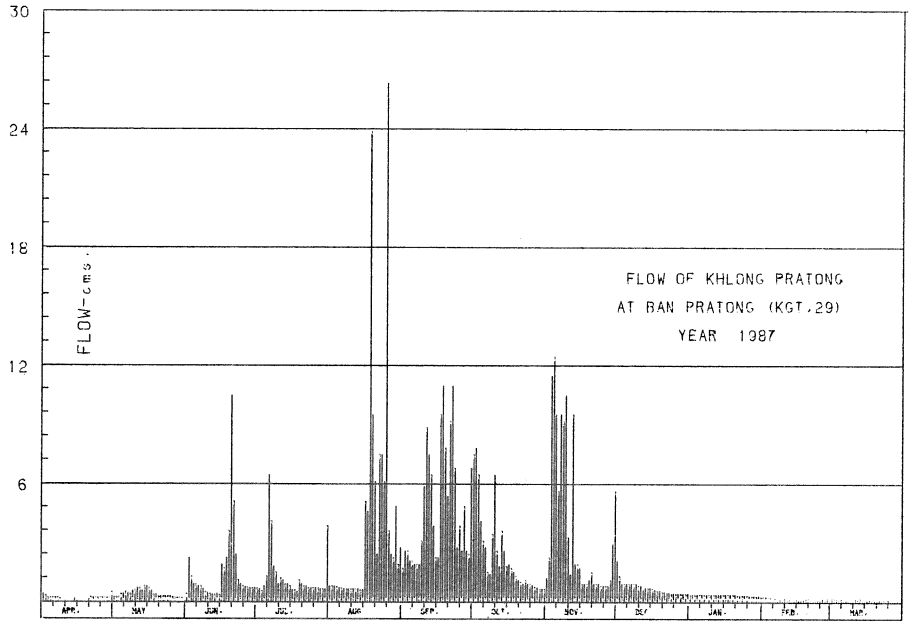
LOCATION — LAT. 13°-07'-04" N., LONG. 102°-13'-22" E., ON RIGHT BANK AT THE BRIDGE OF CHANTHABURI-SA KAEO HIGHWAY, BAN PRATONG, AMPHOE PONG NAM RON, CHANTHABURI.

DRAINAGE AREA	52 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 40 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+4.180 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	1986 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.36	0.40	0.46	0.48	0.58	0.84	0.53	0.61	0.39	0.36	0.34	
2	0.38	0.36	0.62	0.45	0.48	0.64	0.85	0.62	0.54	0.39	0.36	0.34	
3	0.35	0.36	0.54	0.43	0.48	0.64	0.81	0.94	0.50	0.39	0.35	0.33	
4	0.35	0.40	0.50	0.48	0.47	0.61	0.72	0.96	0.50	0.39	0.35	0.33	
5	0.35	0.40	0.50	0.54	0.46	0.61	0.67	0.90	0.50	0.39	0.35	0.33	
6	0.35	0.42	0.48	0.81	0.46	0.60	0.65	0.78	0.50	0.39	0.34	0.33	
7	0.35	0.41	0.48	0.72	0.45	0.60	0.56	0.90	0.50	0.39	0.34	0.33	
8	0.34	0.40	0.45	0.59	0.45	0.60	0.55	0.89	0.50	0.39	0.33	0.33	
9	0.33	0.43	0.42	0.56	0.45	0.67	0.69	0.92	0.50	0.39	0.34	0.33	
10	0.32	0.44	0.41	0.50	0.45	0.79	0.81	0.68	0.48	0.39	0.34	0.34	
11	0.29	0.46	0.40	0.53	0.45	0.88	0.64	0.55	0.48	0.39	0.34	0.33	
12	0.29	0.46	0.39	0.52	0.45	0.84	0.59	0.90	0.48	0.39	0.33	0.33	
13	0.28	0.43	0.39	0.50	0.45	0.81	0.70	0.60	0.46	0.39	0.34	0.34	
14	0.35	0.48	0.40	0.50	0.44	0.71	0.64	0.60	0.46	0.39	0.34	0.34	
15	0.32	0.48	0.39	0.48	0.44	0.62	0.59	0.58	0.46	0.39	0.34	0.33	
16	0.29	0.46	0.60	0.44	0.76	0.62	0.60	0.50	0.45	0.39	0.37	0.33	
17	0.30	0.43	0.58	0.44	0.74	0.90	0.58	0.50	0.44	0.39	0.34	0.32	
18	0.30	0.39	0.62	0.42	1.13	0.93	0.56	0.50	0.43	0.39	0.34	0.32	
19	0.30	0.39	0.70	0.52	0.90	0.85	0.54	0.52	0.43	0.39	0.34	0.32	
20	0.34	0.37	0.92	0.50	0.80	0.77	0.52	0.56	0.42	0.39	0.34	0.32	
21	0.36	0.37	0.76	0.48	0.63	0.89	0.51	0.50	0.42	0.38	0.34	0.32	
22	0.35	0.37	0.63	0.48	0.84	0.93	0.50	0.50	0.41	0.38	0.34	0.32	
23	0.35	0.37	0.52	0.46	0.84	0.82	0.52	0.50	0.41	0.38	0.34	0.32	
24	0.35	0.37	0.50	0.46	0.80	0.65	0.50	0.48	0.40	0.38	0.34	0.32	
25	0.35	0.37	0.48	0.46	1.16	0.71	0.50	0.48	0.40	0.38	0.33	0.32	
26	0.35	0.36	0.47	0.46	0.70	0.64	0.49	0.48	0.40	0.37	0.34	0.32	
27	0.35	0.35	0.47	0.46	0.63	0.75	0.47	0.48	0.40	0.37	0.34	0.32	
28	0.35	0.35	0.46	0.45	0.62	0.64	0.46	0.52	0.40	0.37	0.34	0.32	
29	0.35	0.35	0.46	0.45	0.75	0.63	0.45	0.66	0.40	0.37	0.34	0.32	
30	0.42	0.35	0.46	0.45	0.60	0.82	0.45	0.78	0.40	0.37		0.32	
31		0.35		0.71	0.65		0.45		0.40	0.36		0.32	
MEAN	0.34	0.40	0.51	0.51	0.63	0.72	0.59	0.64	0.45	0.38	0.34	0.33	
MAX	0.42	0.48	0.92	0.81	1.16	0.93	0.85	0.96	0.61	0.39	0.37	0.34	1.16
MIN	0.28	0.35	0.39	0.42	0.44	0.58	0.45	0.48	0.40	0.36	0.33	0.32	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.40 M (A.D), AT 15.00 HOURS, ON AUG 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.41 M (A.D)
LEFT BANK ELEVATION 5.81 M (A.D)
RIGHT BANK ELEVATION 5.82 M (A.D), DRAINAGE AREA 52 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.24	0.40	0.70	0.80	1.70	7.46	1.20	2.07	0.36	0.24	0.16	
2	0.32	0.24	2.24	0.65	0.80	2.58	7.80	2.24	1.30	0.36	0.24	0.16	
3	0.20	0.24	1.30	0.55	0.80	2.58	6.44	11.46	0.90	0.36	0.20	0.12	
4	0.20	0.40	0.90	0.80	0.75	2.07	4.10	12.44	0.90	0.36	0.20	0.12	
5	0.20	0.40	0.90	1.30	0.70	2.07	3.09	9.50	0.90	0.36	0.20	0.12	
6	0.20	0.50	0.80	6.44	0.70	1.90	2.75	5.60	0.90	0.36	0.16	0.12	
7	0.20	0.45	0.80	4.10	0.65	1.90	1.50	9.50	0.90	0.36	0.16	0.12	
8	0.16	0.40	0.65	1.80	0.65	1.90	1.40	9.16	0.90	0.36	0.12	0.12	
9	0.12	0.55	0.50	1.50	0.65	3.09	3.45	10.48	0.90	0.36	0.16	0.12	
10	0.08	0.60	0.45	0.90	0.65	5.85	6.44	3.26	0.80	0.36	0.16	0.16	
11	0.00	0.70	0.40	1.20	0.65	8.82	2.58	1.40	0.80	0.36	0.16	0.12	
12	0.00	0.70	0.36	1.10	0.65	7.46	1.80	9.50	0.80	0.36	0.12	0.12	
13	0.00	0.55	0.36	0.90	0.65	6.44	3.60	1.90	0.70	0.36	0.16	0.16	
14	0.20	0.80	0.40	0.90	0.60	3.85	2.58	1.90	0.70	0.36	0.16	0.16	
15	0.08	0.80	0.36	0.80	0.60	2.24	1.80	1.70	0.70	0.36	0.16	0.12	
16	0.00	0.70	1.90	0.60	5.10	2.24	1.90	0.90	0.65	0.36	0.28	0.12	
17	0.00	0.55	1.70	0.60	4.60	9.50	1.70	0.90	0.60	0.36	0.16	0.08	
18	0.00	0.36	2.24	0.50	23.86	10.97	1.50	0.90	0.55	0.36	0.16	0.08	
19	0.00	0.36	3.60	1.10	9.50	7.80	1.30	1.10	0.55	0.36	0.16	0.08	
20	0.16	0.28	10.48	0.90	6.10	5.35	1.10	1.50	0.50	0.36	0.16	0.08	
21	0.14	0.28	5.10	0.80	2.41	9.16	1.00	0.90	0.50	0.32	0.16	0.08	
22	0.20	0.28	2.41	0.80	7.46	10.97	0.90	0.90	0.45	0.32	0.16	0.08	
23	0.20	0.28	1.10	0.70	7.46	6.78	1.10	0.90	0.45	0.32	0.16	0.08	
24	0.20	0.28	0.90	0.70	6.10	2.75	0.90	0.80	0.40	0.32	0.16	0.08	
25	0.20	0.28	0.80	0.70	26.32	3.85	0.90	0.80	0.40	0.32	0.12	0.08	
26	0.20	0.24	0.75	0.70	3.60	2.58	0.85	0.80	0.40	0.28	0.16	0.08	
27	0.20	0.20	0.75	0.70	2.41	4.85	0.75	0.80	0.40	0.28	0.16	0.08	
28	0.20	0.20	0.70	0.65	2.24	2.58	0.70	1.10	0.40	0.28	0.16	0.08	
29	0.20	0.20	0.70	0.65	4.85	2.41	0.65	2.92	0.40	0.28	0.16	0.08	
30	0.50	0.20	0.70	0.65	1.90	6.78	0.65	5.60	0.40	0.28		0.08	
31		0.20		3.85	2.75		0.65		0.40	0.24		0.08	
TOTAL	4.86	12.46	44.65	38.24	126.96	143.02	73.32	112.06	21.62	10.44	4.92	3.32	595.87 CMSDAY
MEAN	0.16	0.40	1.49	1.23	4.10	4.77	2.37	3.74	0.70	0.34	0.17	0.11	1.63 CMS
MAX	0.50	0.80	10.48	6.44	26.32	10.97	7.80	12.44	2.07	0.36	0.28	0.16	26.32 CMS
MIN	0.00	0.20	0.36	0.50	0.60	1.70	0.65	0.80	0.40	0.24	0.12	0.08	0.00 CMS
RUNOFF	0.420	1.077	3.858	3.304	10.969	12.357	6.335	9.682	1.868	0.902	0.425	0.287	51.483 MCM

MOMENTARY PEAK 50.00 CMS, AT 1.40 M (A.D), AT 15.00 HOURS, ON AUG 25, 1987

RUNOFF YIELD 31.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 361.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

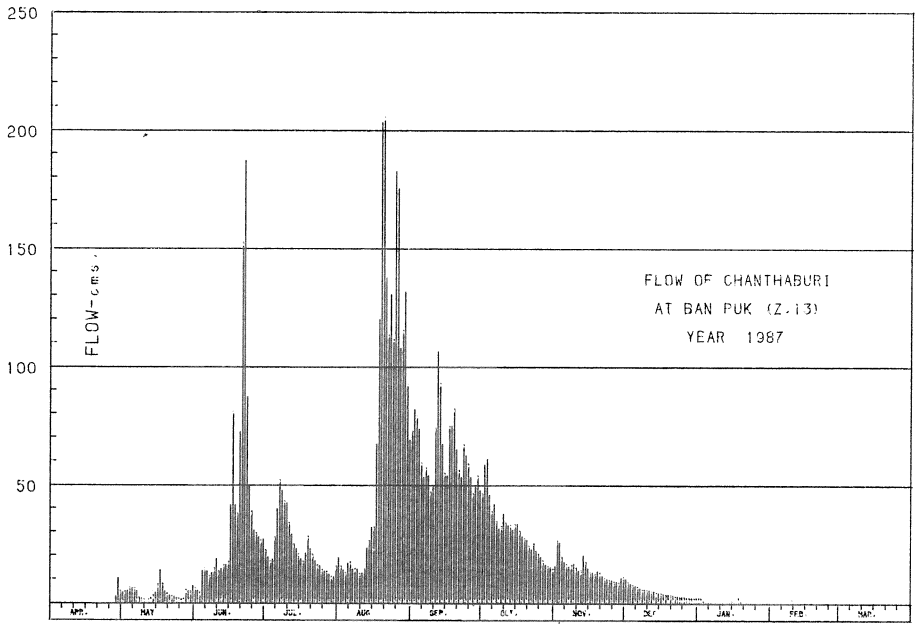
CHANTHABURI RIVER AT BAN PUK, CHANTHABURI (C.13)

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	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 20 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.083 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.63	0.74	1.41	1.29	2.87	2.17	1.15	0.92	0.46	1.43	1.59	
2	0.00	0.66	0.67	1.30	1.15	3.08	2.50	1.55	0.86	0.45	1.49	1.43	
3	0.00	0.67	0.63	1.23	1.08	3.02	2.60	1.52	0.82	0.32	1.54	1.38	
4	0.00	0.75	1.07	1.26	1.04	2.88	2.15	1.30	0.80	0.29	1.60	1.36	
5	0.00	0.73	1.12	1.60	1.20	2.52	1.95	1.22	0.78	0.37	1.57	1.37	
6	0.00	0.73	1.06	1.98	1.22	2.36	2.04	1.18	0.76	0.38	1.58	1.38	
7	0.00	0.66	0.98	2.33	1.10	2.47	1.82	1.14	0.73	0.38	1.70	1.40	
8	0.00	0.48	1.03	2.21	1.11	2.38	1.72	1.17	0.70	0.38	1.69	1.46	
9	0.00	0.44	1.12	2.08	1.10	2.19	1.75	1.19	0.70	0.38	1.74	1.42	
10	0.00	0.41	1.27	2.06	1.02	2.25	1.92	1.12	0.69	0.38	1.78	1.38	
11	0.00	0.38	1.06	1.80	1.03	2.89	1.80	1.07	0.68	0.37	2.00	1.33	
12	0.00	0.41	1.10	1.64	1.10	3.63	1.76	1.08	0.66	0.36	1.14	1.26	
13	0.00	0.46	1.17	1.50	1.44	3.34	1.77	1.32	0.65	0.34	0.67	1.15	
14	0.00	0.56	1.17	1.43	1.55	2.72	1.70	1.22	0.63	0.34	0.49	1.08	
15	0.00	0.62	1.22	1.35	1.74	2.41	1.78	1.11	0.61	0.34	0.45	1.02	
16	0.00	0.82	2.03	1.27	1.74	2.38	1.78	1.04	0.62	0.34	0.54	0.96	
17	0.00	1.08	3.06	1.23	2.72	2.91	1.69	1.04	0.59	0.38	0.53	0.92	
18	0.00	0.83	2.03	1.36	3.94	2.91	1.61	1.01	0.57	0.47	0.50	0.87	
19	0.00	0.65	1.92	1.61	5.46	3.09	1.58	1.06	0.57	0.28	0.46	0.82	
20	0.00	0.61	2.85	1.43	5.50	2.66	1.56	1.04	0.56	0.18	0.42	0.78	
21	0.00	0.54	4.56	1.34	4.27	2.44	1.47	0.98	0.55	0.15	0.45	0.74	
22	0.00	0.53	5.19	1.24	3.78	2.36	1.42	0.94	0.52	0.17	0.40	0.71	
23	0.00	0.50	3.24	1.17	4.13	2.72	1.51	0.92	0.51	0.17	0.37	0.67	
24	0.00	0.46	2.27	1.16	3.74	2.60	1.40	0.91	0.50	0.18	0.19	0.64	
25	0.00	0.45	1.95	1.09	5.11	2.51	1.35	0.90	0.49	0.17	0.27	0.59	
26	0.00	0.41	1.70	1.06	5.01	2.36	1.30	0.87	0.49	0.17	0.30	0.57	
27	0.00	0.43	1.66	1.06	3.66	2.17	1.24	0.87	0.47	0.18	0.29	0.54	
28	0.54	0.70	1.60	1.01	3.82	2.26	1.17	0.85	0.47	0.53	0.32	0.51	
29	0.94	0.66	1.56	0.97	4.15	2.38	1.15	0.94	0.46	0.61	1.25	0.48	
30	0.67	0.66	1.57	0.96	3.33	2.21	1.13	0.96	0.45	0.59		0.45	
31		0.78		1.15	2.76		1.10		0.46	0.56		0.40	
MEAN	0.07	0.60	1.75	1.43	2.62	2.63	1.67	1.09	0.62	0.34	0.94	0.99	
MAX	0.94	1.08	5.19	2.33	5.50	3.63	2.60	1.55	0.92	0.61	2.00	1.59	5.50
MIN	0.00	0.38	0.63	0.96	1.02	2.17	1.10	0.85	0.45	0.15	0.19	0.40	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.80 M (A.D), AT 1.00 HOURS, ON AUG 20, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.16 M (A.D)
LEFT BANK ELEVATION 7.81 M (A.D)
RIGHT BANK ELEVATION 6.64 M (A.D), DRAINAGE AREA 671 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	4.51	6.50	22.48	19.28	73.30	46.37	15.67	10.16	2.16	0.00	0.00	
2	0.00	5.02	5.19	19.55	15.67	81.90	58.50	26.47	8.90	2.05	0.00	0.00	
3	0.00	5.19	4.51	17.69	13.96	79.35	62.50	25.59	8.10	0.86	0.00	0.00	
4	0.00	6.70	13.72	18.49	12.98	73.70	45.68	19.55	7.70	0.65	0.00	0.00	
5	0.00	6.30	14.94	27.95	16.90	59.30	38.85	17.43	7.30	1.26	0.00	0.00	
6	0.00	6.30	13.47	39.84	17.43	53.24	41.88	16.41	6.90	1.34	0.00	0.00	
7	0.00	5.02	11.54	52.14	14.45	57.36	34.68	15.43	6.30	1.34	0.00	0.00	
8	0.00	2.38	12.73	47.77	14.69	53.97	31.53	16.16	5.70	1.34	0.00	0.00	
9	0.00	1.94	14.94	43.26	14.45	47.06	32.47	16.65	5.70	1.34	0.00	0.00	
10	0.00	1.61	18.75	42.57	12.49	49.22	37.86	14.94	5.53	1.34	0.00	0.00	
11	0.00	1.34	13.47	34.05	12.73	74.10	34.05	13.72	5.36	1.26	0.00	0.00	
12	0.00	1.61	14.45	29.13	14.45	106.51	32.79	13.96	5.02	1.18	0.00	0.00	
13	0.00	2.16	16.16	25.00	23.32	93.25	33.11	20.08	4.85	1.02	0.00	0.00	
14	0.00	3.44	16.16	23.04	26.47	67.30	30.90	17.43	4.51	1.02	0.00	0.00	
15	0.00	4.34	17.43	20.88	32.16	55.08	33.42	14.69	4.17	1.02	0.00	0.00	
16	0.00	8.10	41.54	18.75	32.16	53.97	33.42	12.98	4.34	1.02	0.00	0.00	
17	0.00	13.96	81.05	17.69	67.30	74.90	30.60	12.98	3.86	1.34	0.00	0.00	
18	0.00	8.30	41.54	21.14	121.29	74.90	28.24	12.25	3.58	2.27	0.00	0.00	
19	0.00	4.85	37.86	28.24	203.36	82.32	27.36	13.47	3.58	0.60	0.00	0.00	
20	0.00	4.17	72.50	23.04	205.80	64.90	26.77	12.98	3.44	0.16	0.00	0.00	
21	0.00	3.16	152.45	20.61	137.61	56.22	24.16	11.54	3.30	0.10	0.00	0.00	
22	0.00	3.02	187.23	17.96	113.56	53.24	22.76	10.62	2.88	0.14	0.00	0.00	
23	0.00	2.60	88.79	16.16	130.66	67.30	25.29	10.16	2.74	0.14	0.00	0.00	
24	0.00	2.16	49.95	15.92	111.68	62.50	22.20	9.93	2.60	0.16	0.00	0.00	
25	0.00	2.05	38.85	14.21	182.63	58.90	20.88	9.70	2.49	0.14	0.00	0.00	
26	0.00	1.61	30.90	13.47	176.88	53.24	19.55	9.10	2.49	0.14	0.00	0.00	
27	0.00	1.83	29.72	13.47	107.92	46.37	17.96	9.10	2.27	0.16	0.00	0.00	
28	3.16	5.70	27.95	12.25	115.47	49.59	16.16	8.70	2.27	0.00	0.00	0.00	
29	10.62	5.02	26.77	11.31	131.65	53.97	15.67	10.62	2.16	0.00	0.00	0.00	
30	5.19	5.02	27.06	11.08	92.81	47.77	15.18	11.08	2.05	0.00		0.00	
31		7.30		15.67	68.90		14.45		2.16	0.00		0.00	
TOTAL	18.97	136.71	1128.12	734.81	2261.11	1924.73	955.24	429.39	142.41	25.55	0.00	0.00	7757.04 CMSDAY
MEAN	0.63	4.41	37.60	23.70	72.94	64.16	30.81	14.31	4.59	0.82	0.00	0.00	21.19 CMS
MAX	10.62	13.96	187.23	52.14	205.80	106.51	62.50	26.47	10.16	2.27	0.00	0.00	205.80 CMS
MIN	0.00	1.34	4.51	11.08	12.49	46.37	14.45	8.70	2.05	0.00	0.00	0.00	0.00 CMS
RUNOFF	1.639	11.812	97.470	63.488	195.360	166.297	82.533	37.099	12.304	2.208	0.000	0.000	670.208 MCM

MOMENTARY PEAK 224.70 CMS, AT 5.80 M (A.D), AT 1.00 HOURS, ON AUG 20, 1987
RUNOFF YIELD 31.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 334.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

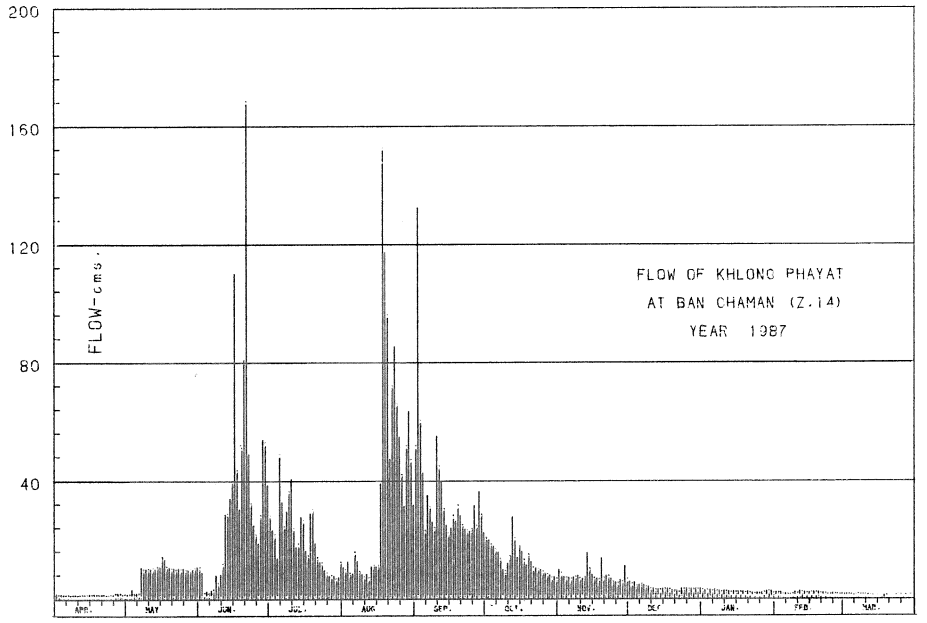
KHLONG PHAYAT AT BAN CHAMAN, CHANTHABURI (Z.14)

LOCATION	LAT. 12°-44'-25" N., LONG. 102°-12'-39" E., ON LEFT BANK AT THE BRIDGE OF KHLONG PHAYAT NEAR WAT CHAMAN, AMPHOE MAKHAM, CHANTHABURI.
DRAINAGE AREA	245 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.170 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	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.92	0.91	1.60	2.39	1.58	3.31	2.07	1.53	1.27	1.07	0.97	0.89	
2	0.90	0.92	1.48	2.18	1.54	5.62	2.03	1.47	1.23	1.03	0.97	0.90	
3	0.90	1.07	0.96	2.12	1.68	3.60	1.97	1.38	1.25	1.06	0.97	0.90	
4	0.88	0.94	1.01	1.74	1.47	2.97	1.93	1.37	1.18	1.05	0.92	0.89	
5	0.87	0.94	0.96	3.23	1.45	2.18	1.89	1.36	1.19	1.04	0.92	0.86	
6	0.89	0.96	1.04	2.58	1.85	2.67	1.84	1.35	1.22	1.06	0.90	0.87	
7	0.86	1.58	1.08	2.24	1.69	2.52	1.73	1.37	1.18	1.03	0.89	0.91	
8	0.88	1.55	1.42	2.45	1.50	2.30	1.53	1.39	1.16	1.02	0.92	0.90	
9	0.88	1.55	1.25	2.73	1.44	2.22	1.51	1.41	1.14	1.01	0.97	0.90	
10	0.86	1.56	1.44	2.89	1.39	3.42	1.65	1.36	1.10	1.02	0.95	0.90	
11	0.88	1.55	1.65	2.21	1.44	3.07	1.78	1.34	1.09	1.01	1.01	0.87	
12	0.88	1.57	2.41	1.92	1.37	2.86	2.37	1.38	1.08	1.00	1.00	0.87	
13	0.88	1.55	2.42	1.98	1.59	2.49	2.06	1.83	1.07	0.99	0.97	0.85	
14	0.89	1.60	2.63	2.37	1.62	2.25	1.75	1.56	1.07	1.00	0.97	0.84	
15	0.90	1.59	2.87	2.33	1.59	2.14	1.94	1.43	1.08	1.00	0.96	0.83	
16	0.90	1.77	5.04	1.86	1.62	2.21	1.85	1.36	1.10	0.99	0.98	0.84	
17	0.90	1.72	3.01	1.79	2.83	2.40	1.72	1.34	1.09	1.00	0.98	0.68	
18	0.90	1.60	2.48	2.42	6.12	2.31	1.62	1.33	1.08	0.99	0.98	0.83	
19	0.89	1.58	3.29	2.48	5.23	2.54	1.81	1.74	1.04	0.98	0.97	0.84	
20	0.89	1.57	4.23	1.98	4.67	2.39	1.68	1.37	1.03	0.99	0.95	0.84	
21	0.89	1.56	6.49	1.76	3.17	2.26	1.58	1.41	1.02	0.97	0.94	0.83	
22	0.87	1.55	3.23	1.67	3.97	2.19	1.56	1.41	1.00	0.94	0.93	0.85	
23	0.86	1.56	2.57	1.67	4.36	2.18	1.56	1.34	1.09	0.94	0.90	0.84	
24	0.90	1.55	2.25	1.52	3.78	2.16	1.53	1.27	1.09	0.94	0.91	0.87	
25	0.89	1.56	2.12	1.48	3.41	2.20	1.50	1.25	1.09	0.94	0.92	0.87	
26	0.95	1.54	1.98	1.40	2.95	2.53	1.45	1.24	1.09	0.96	0.92	0.87	
27	0.94	1.53	2.40	1.42	2.52	2.25	1.44	1.31	1.08	1.00	0.91	0.86	
28	0.95	1.55	3.38	1.40	3.31	2.72	1.42	1.28	1.07	1.01	0.90	0.86	
29	0.90	1.54	3.35	1.35	3.70	2.41	1.37	1.60	1.09	1.03	0.91	0.87	
30	0.93	1.57	2.81	1.37	3.17	2.14	1.38	1.34	1.09	1.01		0.87	
31		1.59		1.68	2.54		1.35		1.09	0.96		0.84	
MEAN	0.89	1.46	2.43	2.02	2.60	2.62	1.71	1.40	1.11	1.00	0.94	0.86	
MAX	0.95	1.77	6.49	3.23	6.12	5.62	2.37	1.83	1.27	1.07	1.01	0.91	6.49
MIN	0.86	0.91	0.96	1.35	1.37	2.14	1.35	1.24	1.00	0.94	0.89	0.68	0.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.58 M (A.D), AT 18.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.38 M (A.D)
LEFT BANK ELEVATION 8.55 M (A.D)
RIGHT BANK ELEVATION 8.32 M (A.D), DRAINAGE AREA 245 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.78	1.69	11.10	28.26	10.76	51.99	20.84	9.91	5.88	3.27	2.23	1.53	
2	1.60	1.78	9.08	23.34	10.08	132.48	19.96	8.92	5.32	2.83	2.23	1.60	
3	1.60	3.27	2.14	21.96	12.62	60.60	18.64	7.50	5.60	3.16	2.23	1.60	
4	1.46	1.96	2.61	13.80	8.92	42.72	17.76	7.35	4.64	3.05	1.78	1.53	
5	1.39	1.96	2.14	49.11	8.60	23.34	16.89	7.20	4.77	2.94	1.78	1.32	
6	1.53	2.14	2.94	32.82	16.05	35.05	15.84	7.05	5.18	3.16	1.60	1.39	
7	1.32	10.76	3.38	24.72	12.81	31.38	13.60	7.35	4.64	2.83	1.53	1.69	
8	1.46	10.25	8.12	29.70	9.40	26.10	9.91	7.65	4.38	2.72	1.78	1.60	
9	1.46	10.25	5.60	36.55	8.44	24.26	9.57	7.96	4.12	2.61	2.23	1.60	
10	1.32	10.42	8.44	40.64	7.65	55.20	12.05	7.20	3.60	2.72	2.05	1.60	
11	1.46	10.25	12.05	24.03	8.44	45.07	14.60	6.90	3.49	2.61	2.61	1.39	
12	1.46	10.59	28.74	17.54	7.35	39.86	27.78	7.50	3.38	2.50	2.50	1.39	
13	1.46	10.25	28.98	18.86	10.93	30.66	20.62	15.63	3.27	2.41	2.23	1.25	
14	1.53	11.10	34.05	27.78	11.48	24.95	14.00	10.42	3.27	2.50	2.23	1.18	
15	1.60	10.93	40.12	26.82	10.93	22.42	17.98	8.28	3.38	2.50	2.14	1.11	
16	1.60	14.40	110.12	16.26	11.48	24.03	16.05	7.20	3.60	2.41	2.32	1.18	
17	1.60	13.40	43.72	14.80	39.08	28.50	13.40	6.90	3.49	2.50	2.32	0.24	
18	1.60	11.10	30.42	28.98	152.74	26.34	11.48	6.75	3.38	2.41	2.32	1.11	
19	1.53	10.76	51.33	30.42	117.34	31.86	15.21	13.80	2.94	2.32	2.23	1.18	
20	1.53	10.59	80.92	18.86	96.42	28.26	12.62	7.35	2.83	2.41	2.05	1.18	
21	1.53	10.42	168.66	14.20	47.33	25.18	10.76	7.96	2.72	2.23	1.96	1.11	
22	1.39	10.25	49.11	12.43	72.24	23.57	10.42	7.96	2.50	1.96	1.87	1.25	
23	1.32	10.42	32.58	12.43	85.40	23.34	10.42	6.90	3.49	1.96	1.60	1.18	
24	1.60	10.25	24.95	9.74	66.18	22.88	9.91	5.88	3.49	1.96	1.69	1.39	
25	1.53	10.42	21.96	9.08	54.90	23.80	9.40	5.60	3.49	1.96	1.78	1.39	
26	2.05	10.08	18.86	7.80	42.20	31.62	8.60	5.46	3.49	2.14	1.78	1.39	
27	1.96	9.91	28.50	8.12	31.38	24.95	8.44	6.45	3.38	2.50	1.69	1.32	
28	2.05	10.25	54.02	7.80	51.99	36.30	8.12	6.02	3.27	2.61	1.60	1.32	
29	1.60	10.08	53.15	7.05	63.70	28.74	7.35	11.10	3.49	2.83	1.69	1.39	
30	1.87	10.59	38.56	7.35	47.33	22.42	7.50	6.90	3.49	2.61		1.39	
31		10.93		12.62	31.86		7.05		3.49	2.14		1.18	
TOTAL	47.19	281.45	1006.35	633.87	1166.03	1047.87	416.77	239.05	117.46	78.76	58.05	40.98	5133.83 CMSDAY
MEAN	1.57	9.08	33.55	20.45	37.61	34.93	13.44	7.97	3.79	2.54	2.00	1.32	14.03 CMS
MAX	2.05	14.40	168.66	49.11	152.74	132.48	27.78	15.63	5.88	3.27	2.61	1.69	168.66 CMS
MIN	1.32	1.69	2.14	7.05	7.35	22.42	7.05	5.46	2.50	1.96	1.53	0.24	0.24 CMS
RUNOFF	4.077	24.317	86.949	54.766	100.745	90.536	36.009	20.654	10.149	6.805	5.016	3.541	443.563 MCM

MOMENTARY PEAK 222.02 CMS, AT 7.58 M (A.D), AT 18.00 HOURS, ON AUG 18, 1987

RUNOFF YIELD 57.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 906.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

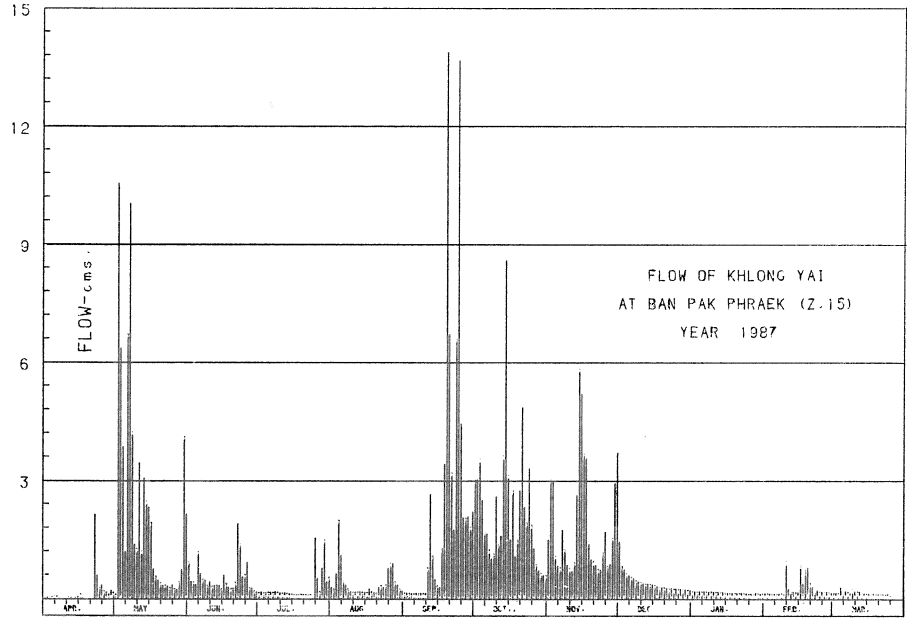
KHLONG YAI AT BAN PAK PHRAEK, RAYONG (Z.15)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE METEOROLOGICAL STATION.
ELEVATION	+4.715 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 138 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.32	0.82	0.37	0.46	0.36	1.58	1.06	1.04	0.40	0.34	0.35	
2	0.24	2.51	0.56	0.37	0.44	0.35	1.58	1.58	0.77	0.39	0.34	0.35	
3	0.25	2.23	0.55	0.36	0.67	0.35	1.73	1.56	0.72	0.39	0.33	0.35	
4	0.25	1.84	0.51	0.36	1.25	0.34	1.42	0.90	0.68	0.39	0.33	0.46	
5	0.26	0.94	0.94	0.37	0.90	0.34	1.14	0.77	0.65	0.39	0.33	0.40	
6	0.26	2.26	0.67	0.37	0.58	0.34	1.12	0.75	0.63	0.39	0.33	0.39	
7	0.25	2.48	0.60	0.37	0.50	0.34	0.96	1.16	0.61	0.38	0.33	0.38	
8	0.24	1.91	0.58	0.38	0.45	0.35	0.86	0.96	0.58	0.38	0.34	0.35	
9	0.23	1.01	0.50	0.37	0.38	0.34	0.92	0.78	0.56	0.39	0.32	0.44	
10	0.23	0.97	0.55	0.35	0.37	0.34	1.45	0.74	0.55	0.38	0.83	0.39	
11	0.25	1.70	0.48	0.35	0.37	0.75	1.01	0.70	0.53	0.38	0.43	0.39	
12	0.23	0.95	0.49	0.35	0.38	1.47	1.10	0.82	0.53	0.38	0.43	0.38	
13	0.23	1.59	0.50	0.35	0.38	0.90	1.75	1.46	0.52	0.37	0.38	0.35	
14	0.23	1.41	0.49	0.33	0.38	0.60	2.40	2.18	0.52	0.37	0.37	0.34	
15	0.26	1.36	0.44	0.33	0.37	0.49	1.61	2.10	0.51	0.36	0.37	0.34	
16	0.32	1.23	0.65	0.31	0.37	0.46	1.06	1.77	0.50	0.35	0.79	0.34	
17	0.27	0.73	0.53	0.31	0.43	0.97	1.50	1.73	0.48	0.35	0.52	0.33	
18	0.26	0.64	0.46	0.31	0.39	1.69	0.89	1.05	0.46	0.35	0.74	0.33	
19	0.25	0.59	0.45	0.32	0.36	2.64	1.06	0.85	0.46	0.35	0.75	0.33	
20	0.25	0.54	0.45	0.31	0.35	2.26	1.50	0.83	0.46	0.35	0.54	0.32	
21	0.25	0.49	0.55	0.31	0.46	1.63	2.06	0.78	0.45	0.35	0.47	0.32	
22	1.33	0.50	1.22	0.30	0.49	1.16	1.36	0.73	0.45	0.35	0.42	0.32	
23	0.65	0.48	1.02	0.31	0.46	2.25	1.23	0.72	0.45	0.35	0.41	0.31	
24	0.46	0.46	0.63	0.29	0.51	2.63	1.66	0.93	0.44	0.34	0.39	0.33	
25	0.50	0.50	0.66	1.12	0.74	1.98	1.21	1.14	0.44	0.33	0.38	0.28	
26	0.41	0.44	0.81	0.61	0.80	1.27	0.97	0.77	0.43	0.33	0.38	0.28	
27	0.37	0.42	0.46	0.39	0.80	1.27	0.79	0.79	0.43	0.32	0.38	0.28	
28	0.32	0.57	0.45	0.74	0.56	1.28	0.71	1.08	0.43	0.35	0.37	0.27	
29	0.41	0.72	0.41	1.06	0.50	1.19	0.68	1.55	0.42	0.34	0.36	0.27	
30	0.37	1.88	0.37	0.55	0.44	1.32	0.65	1.80	0.42	0.33		0.27	
31		1.30		0.63	0.40		0.65		0.41	0.34		0.27	
MEAN	0.34	1.13	0.59	0.43	0.51	1.06	1.25	1.13	0.53	0.36	0.44	0.34	
MAX	1.33	2.51	1.22	1.12	1.25	2.64	2.40	2.18	1.04	0.40	0.83	0.46	2.64
MIN	0.22	0.32	0.37	0.29	0.35	0.34	0.65	0.70	0.41	0.32	0.32	0.27	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.72 M (A.D), AT 6.00 HOURS, ON SEP 24, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.10 M (A.D)
LEFT BANK ELEVATION 4.10 M (A.D)
RIGHT BANK ELEVATION 4.11 M (A.D), DRAINAGE AREA 244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.12	0.94	0.17	0.29	0.16	3.03	1.50	1.45	0.20	0.14	0.15	
2	0.04	10.64	0.44	0.17	0.26	0.15	3.03	3.03	0.84	0.19	0.14	0.15	
3	0.05	6.36	0.43	0.16	0.64	0.15	3.56	2.96	0.74	0.19	0.13	0.15	
4	0.05	3.96	0.36	0.16	2.00	0.14	2.51	1.10	0.66	0.19	0.13	0.29	
5	0.06	1.20	1.20	0.17	1.10	0.14	1.70	0.84	0.60	0.19	0.13	0.20	
6	0.06	6.72	0.64	0.17	0.47	0.14	1.65	0.80	0.56	0.19	0.13	0.19	
7	0.05	10.04	0.50	0.17	0.35	0.14	1.25	1.75	0.52	0.18	0.13	0.18	
8	0.04	4.24	0.47	0.18	0.27	0.15	1.02	1.25	0.47	0.18	0.14	0.15	
9	0.03	1.38	0.35	0.17	0.18	0.14	1.15	0.86	0.44	0.19	0.12	0.26	
10	0.03	1.28	0.43	0.15	0.17	0.14	2.60	0.78	0.43	0.18	0.96	0.19	
11	0.05	3.45	0.32	0.15	0.17	0.80	1.38	0.70	0.39	0.18	0.25	0.19	
12	0.03	1.23	0.34	0.15	0.18	2.66	1.60	0.94	0.39	0.18	0.25	0.18	
13	0.03	3.07	0.35	0.15	0.18	1.10	3.63	2.63	0.38	0.17	0.18	0.15	
14	0.03	2.48	0.34	0.13	0.18	0.50	8.60	5.84	0.38	0.17	0.17	0.14	
15	0.06	2.33	0.26	0.13	0.17	0.34	3.14	5.20	0.36	0.16	0.17	0.14	
16	0.12	1.94	0.60	0.11	0.17	0.29	1.50	3.70	0.35	0.15	0.88	0.14	
17	0.07	0.76	0.39	0.11	0.25	1.28	2.75	3.56	0.32	0.15	0.38	0.13	
18	0.06	0.58	0.29	0.11	0.19	3.42	1.08	1.47	0.29	0.15	0.78	0.13	
19	0.05	0.48	0.27	0.12	0.16	13.96	1.50	1.00	0.29	0.15	0.80	0.13	
20	0.05	0.41	0.27	0.11	0.15	6.72	2.75	0.96	0.29	0.15	0.41	0.12	
21	0.05	0.34	0.43	0.11	0.29	3.21	4.96	0.86	0.27	0.15	0.30	0.12	
22	2.24	0.35	1.91	0.10	0.34	1.75	2.33	0.76	0.27	0.15	0.23	0.12	
23	0.60	0.32	1.40	0.11	0.29	6.60	1.94	0.74	0.27	0.15	0.21	0.11	
24	0.29	0.29	0.56	0.09	0.36	13.67	3.31	1.18	0.26	0.14	0.19	0.13	
25	0.35	0.35	0.62	1.65	0.78	4.52	1.88	1.70	0.26	0.13	0.18	0.08	
26	0.21	0.26	0.92	0.52	0.90	2.06	1.28	0.84	0.25	0.13	0.18	0.08	
27	0.17	0.23	0.29	0.19	0.90	2.06	0.88	0.88	0.25	0.12	0.18	0.08	
28	0.12	0.45	0.27	0.78	0.44	2.09	0.72	1.55	0.25	0.15	0.17	0.07	
29	0.21	0.74	0.21	1.50	0.35	1.83	0.66	2.93	0.23	0.14	0.16	0.07	
30	0.17	4.12	0.17	0.43	0.26	2.21	0.60	3.80	0.23	0.13		0.07	
31		2.15		0.56	0.20		0.60		0.21	0.14		0.07	
TOTAL	5.39	72.27	15.97	8.98	12.64	72.52	68.59	56.11	12.90	5.02	8.22	4.36	342.97 CMSDAY
MEAN	0.18	2.33	0.53	0.29	0.41	2.42	2.21	1.87	0.42	0.16	0.28	0.14	0.94 CMS
MAX	2.24	10.64	1.91	1.65	2.00	13.96	8.60	5.84	1.45	0.20	0.96	0.29	13.96 CMS
MIN	0.02	0.12	0.17	0.09	0.15	0.14	0.60	0.70	0.21	0.12	0.12	0.07	0.02 CMS
RUNOFF	0.466	6.244	1.380	0.776	1.092	6.266	5.926	4.848	1.115	0.434	0.710	0.377	29.633 MCM

MOMENTARY PEAK 16.44 CMS, AT 2.72 M (A.D), AT 6.00 HOURS, ON SEP 24, 1987

RUNOFF YIELD 3.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 67.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

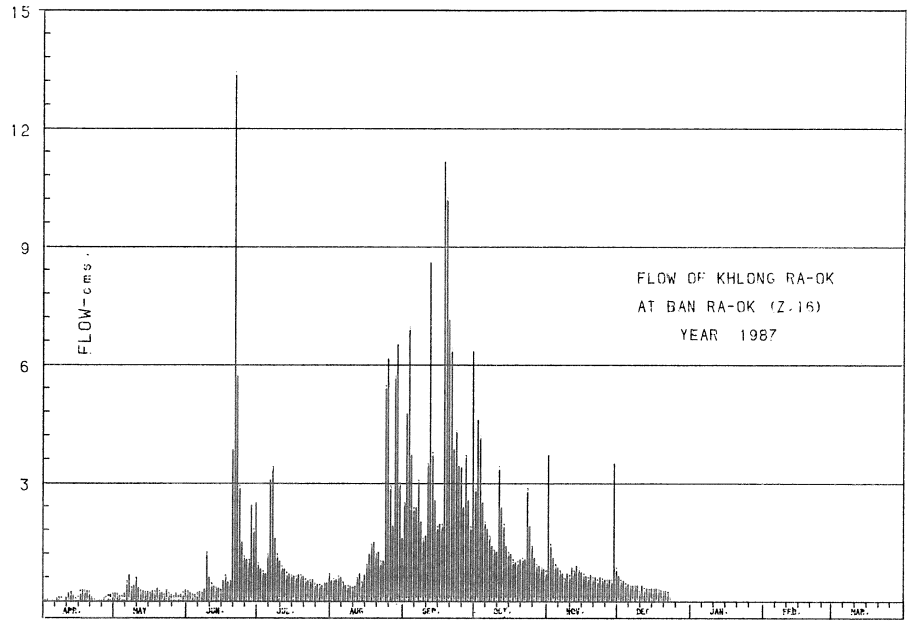
KHLONG RA-OK AT BAN RA-OK, RAYONG (Z.16)

LOCATION	LAT. 12°51'38" N., LONG. 101°45'41" E., ON RIGHT BANK NEAR KHAO CHUK AT BAN RA-OK TAMBON THUNG KHWAI KIN, AMPHOE KLAENG, RAYONG.
DRAINAGE AREA	41 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE STATION OFFICE.
ELEVATION	+3.368 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.70	0.73	0.97	0.84	1.25	1.31	1.43	0.88	0.80	0.93	0.77	
2	0.62	0.70	0.71	0.93	0.86	1.57	1.55	1.07	0.85	0.80	0.93	0.77	
3	0.61	0.67	0.69	0.92	0.85	1.83	1.50	1.00	0.84	0.79	0.96	0.76	
4	0.61	0.67	0.68	0.90	0.88	1.43	1.25	0.96	0.82	0.79	0.96	0.76	
5	0.61	0.70	0.71	1.02	0.87	1.23	1.17	0.94	0.81	0.79	0.97	0.75	
6	0.65	0.84	0.72	1.34	0.83	1.23	1.14	0.92	0.80	0.79	0.97	0.76	
7	0.65	0.89	0.71	1.39	0.80	1.34	1.11	0.90	0.80	0.78	0.97	0.81	
8	0.65	0.78	0.75	1.10	0.80	1.17	1.06	0.86	0.80	0.78	0.96	0.87	
9	0.59	0.80	1.03	1.02	0.79	1.10	1.04	0.90	0.80	0.78	0.96	0.85	
10	0.65	0.87	0.87	0.98	0.78	1.11	1.03	0.89	0.73	0.78	0.96	0.85	
11	0.70	0.77	0.82	0.95	0.79	1.40	1.39	0.94	0.80	0.76	0.96	0.82	
12	0.72	0.74	0.79	0.93	0.87	2.00	1.23	0.92	0.77	0.76	0.96	0.82	
13	0.67	0.73	0.78	0.91	0.90	1.44	1.16	0.95	0.76	0.75	0.96	0.82	
14	0.65	0.72	0.76	0.90	0.83	1.26	1.06	0.94	0.76	0.75	0.96	0.82	
15	0.66	0.72	0.75	0.89	0.89	1.15	1.03	0.91	0.76	0.74	0.97	0.81	
16	0.74	0.71	0.84	0.88	0.96	1.16	1.02	0.90	0.76	0.73	0.97	0.76	
17	0.74	0.73	0.89	0.88	1.02	1.16	0.99	0.88	0.76	0.71	0.97	0.78	
18	0.74	0.73	0.83	0.89	1.07	2.23	0.97	0.87	0.75	0.71	0.96	0.79	
19	0.73	0.76	0.84	0.89	1.08	2.15	0.98	0.89	0.74	0.71	0.87	0.79	
20	0.73	0.74	1.45	0.88	1.02	1.85	0.99	0.87	0.73	0.71	0.83	0.85	
21	0.65	0.71	2.41	0.86	1.03	1.77	1.00	0.87	0.73	0.71	0.83	0.85	
22	0.63	0.69	1.69	0.84	0.98	1.45	0.99	0.85	0.72	0.71	0.83	0.85	
23	0.62	0.74	1.32	0.85	0.98	1.52	1.31	0.87	0.65	0.71	0.82	0.85	
24	0.62	0.71	1.08	0.85	1.66	1.39	1.15	0.86	0.72	0.75	0.81	0.85	
25	0.62	0.68	1.01	0.82	1.74	1.40	1.06	0.85	0.71	0.96	0.81	0.85	
26	0.65	0.67	0.99	0.81	1.32	1.23	1.00	0.85	0.72	0.97	0.80	0.85	
27	0.66	0.70	0.99	0.81	1.15	1.43	0.96	0.85	0.72	0.96	0.80	0.85	
28	0.68	0.67	1.24	0.80	1.69	1.26	0.95	0.85	0.71	0.96	0.80	0.85	
29	0.68	0.68	1.14	0.82	1.78	1.15	0.94	1.40	0.70	0.96	0.78	0.85	
30	0.70	0.72	1.35	0.82	1.33	1.76	0.93	0.94	0.71	0.96		0.85	
31		0.74		0.90	1.10		0.92		0.73	0.96		0.85	
MEAN	0.66	0.73	0.98	0.93	1.05	1.45	1.10	0.94	0.76	0.80	0.91	0.82	
MAX	0.74	0.89	2.41	1.39	1.78	2.23	1.55	1.43	0.88	0.97	0.97	0.87	2.41
MIN	0.59	0.67	0.68	0.80	0.78	1.10	0.92	0.85	0.65	0.71	0.78	0.75	0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.08 M (A.D), AT 18.00 HOURS, ON SEP 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.57 M (A.D)
LEFT BANK ELEVATION 3.79 M (A.D)
RIGHT BANK ELEVATION 5.55 M (A.D), DRAINAGE AREA 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.20	0.26	0.98	0.52	2.50	2.87	3.71	0.64	0.00	0.00	0.00	
2	0.04	0.20	0.22	0.82	0.58	4.76	4.60	1.45	0.55	0.00	0.00	0.00	
3	0.02	0.14	0.18	0.78	0.55	6.97	4.20	1.10	0.52	0.00	0.00	0.00	
4	0.02	0.14	0.16	0.70	0.64	3.71	2.50	0.94	0.46	0.00	0.00	0.00	
5	0.02	0.20	0.22	1.20	0.61	2.38	2.02	0.86	0.43	0.00	0.00	0.00	
6	0.10	0.52	0.24	3.08	0.49	2.38	1.84	0.78	0.40	0.00	0.00	0.00	
7	0.10	0.67	0.22	3.43	0.40	3.08	1.66	0.70	0.40	0.00	0.00	0.00	
8	0.10	0.36	0.30	1.60	0.40	2.02	1.40	0.58	0.40	0.00	0.00	0.00	
9	0.00	0.40	1.25	1.20	0.38	1.60	1.30	0.70	0.40	0.00	0.00	0.00	
10	0.10	0.61	0.61	1.02	0.36	1.66	1.25	0.67	0.26	0.00	0.00	0.00	
11	0.20	0.34	0.46	0.90	0.38	3.50	3.43	0.86	0.40	0.00	0.00	0.00	
12	0.24	0.28	0.38	0.82	0.61	8.60	2.38	0.78	0.34	0.00	0.00	0.00	
13	0.14	0.26	0.36	0.74	0.70	3.78	1.96	0.90	0.32	0.00	0.00	0.00	
14	0.10	0.24	0.32	0.70	0.49	2.56	1.40	0.86	0.32	0.00	0.00	0.00	
15	0.12	0.24	0.30	0.67	0.67	1.90	1.25	0.74	0.32	0.00	0.00	0.00	
16	0.28	0.22	0.52	0.64	0.94	1.96	1.20	0.70	0.32	0.00	0.00	0.00	
17	0.28	0.26	0.67	0.64	1.20	1.96	1.06	0.64	0.32	0.00	0.00	0.00	
18	0.28	0.26	0.49	0.67	1.45	11.16	0.98	0.61	0.30	0.00	0.00	0.00	
19	0.26	0.32	0.52	0.67	1.50	10.25	1.02	0.67	0.28	0.00	0.00	0.00	
20	0.26	0.28	3.85	0.64	1.20	7.15	1.06	0.61	0.26	0.00	0.00	0.00	
21	0.10	0.22	13.44	0.58	1.25	6.43	1.10	0.61	0.26	0.00	0.00	0.00	
22	0.06	0.18	5.72	0.52	1.02	3.85	1.06	0.55	0.24	0.00	0.00	0.00	
23	0.04	0.28	2.94	0.55	1.02	4.36	2.87	0.61	0.10	0.00	0.00	0.00	
24	0.04	0.22	1.50	0.55	5.48	3.43	1.90	0.58	0.00	0.00	0.00	0.00	
25	0.04	0.16	1.15	0.46	6.16	3.50	1.40	0.55	0.00	0.00	0.00	0.00	
26	0.10	0.14	1.06	0.43	2.94	2.38	1.10	0.55	0.00	0.00	0.00	0.00	
27	0.12	0.20	1.06	0.43	1.90	3.71	0.94	0.55	0.00	0.00	0.00	0.00	
28	0.16	0.14	2.44	0.40	5.72	2.56	0.90	0.55	0.00	0.00	0.00	0.00	
29	0.16	0.16	1.84	0.46	6.52	1.90	0.86	3.50	0.00	0.00	0.00	0.00	
30	0.20	0.24	2.50	0.46	3.01	6.34	0.82	0.86	0.00	0.00		0.00	
31		0.28		0.70	1.60		0.78		0.00	0.00		0.00	
TOTAL	3.72	8.36	45.18	27.44	50.69	122.34	53.11	27.77	8.24	0.00	0.00	0.00	346.85 CMSDAY
MEAN	0.12	0.27	1.51	0.89	1.64	4.08	1.71	0.93	0.27	0.00	0.00	0.00	0.95 CMS
MAX	0.28	0.67	13.44	3.43	6.52	11.16	4.60	3.71	0.64	0.00	0.00	0.00	13.44 CMS
MIN	0.00	0.14	0.16	0.40	0.36	1.60	0.78	0.55	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.321	0.722	3.904	2.371	4.380	10.570	4.589	2.399	0.712	0.000	0.000	0.000	29.968 MCM

MOMENTARY PEAK 24.63 CMS, AT 3.08 M (MSL), AT 18.00 HOURS, ON SEP 18, 1987

RUNOFF YIELD 23.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 600.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

KHLONG PHLO AT BAN CHAMKHO, RAYONG (Z.18)

LOCATION — LAT. 12°-57'-22" N., LONG. 101°-40'-31" E., ON RIGHT BANK AT THE BRIDGE ON ROAD, BAN CHAMKHO, AMPHOE KLAENG, RAYONG.

DRAINAGE AREA — 167 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK VICINITY OF THE STATION OFFICE.

ELEVATION — +5.819 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 — 1982 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 67 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

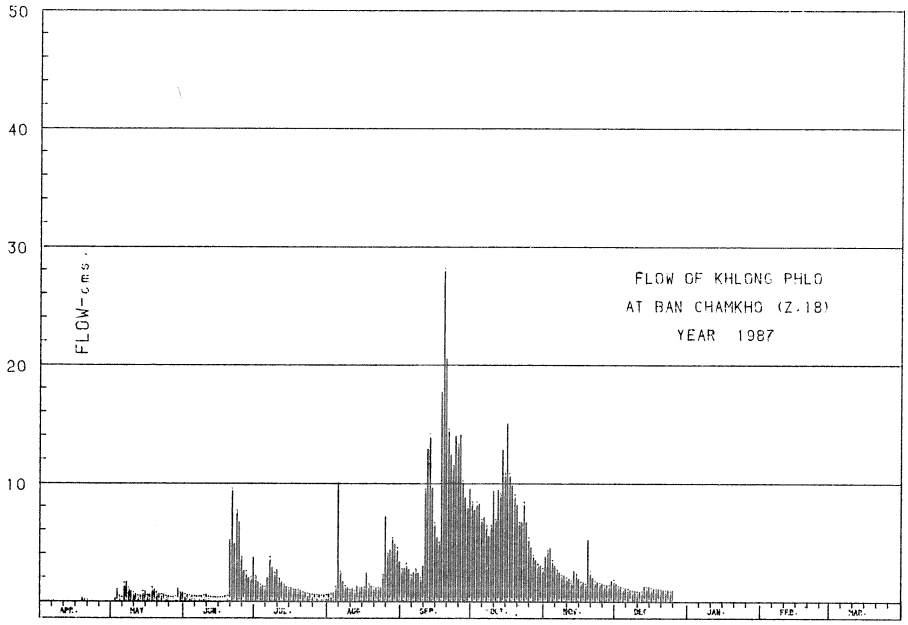
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.68	0.75	0.94	1.29	0.93	1.41	2.16	1.57	1.15	1.30	1.40	1.31	
2	0.70	0.90	0.91	1.18	0.95	1.42	2.08	1.65	1.11	1.29	1.38	1.32	
3	0.72	1.04	0.91	1.14	0.95	1.49	2.16	1.67	1.09	1.28	1.37	1.33	
4	0.73	0.90	0.90	1.10	1.10	1.40	2.14	1.53	1.07	1.27	1.37	1.32	
5	0.74	0.87	0.89	1.09	2.34	1.31	1.98	1.45	1.06	1.23	1.36	1.30	
6	0.73	1.18	0.89	1.26	1.37	1.35	2.00	1.40	1.05	1.25	1.35	1.26	
7	0.63	1.19	0.89	1.57	1.20	1.41	1.92	1.35	1.02	1.29	1.35	1.40	
8	0.50	1.07	0.89	1.43	1.11	1.34	1.80	1.31	1.01	1.45	1.35	1.39	
9	0.59	0.99	0.91	1.35	1.06	1.27	1.92	1.30	1.00	1.46	1.35	1.37	
10	0.65	0.97	0.92	1.40	1.03	1.45	2.26	1.27	0.99	1.39	1.34	1.37	
11	0.62	0.93	0.88	1.25	1.05	2.28	1.98	1.24	0.98	1.40	1.38	1.36	
12	0.49	0.91	0.87	1.18	1.01	2.64	2.27	1.22	1.00	1.38	1.40	1.34	
13	0.24	0.90	0.86	1.14	1.10	2.77	2.24	1.38	1.09	1.36	1.39	1.31	
14	0.26	1.00	0.86	1.09	1.06	2.29	2.63	1.33	1.09	1.36	1.40	1.30	
15	0.42	0.99	0.86	1.06	1.07	1.95	2.43	1.24	1.09	1.39	1.40	1.30	
16	0.44	0.92	0.86	1.07	1.09	1.79	2.85	1.20	1.06	1.38	1.42	1.26	
17	0.49	0.92	0.86	1.03	1.34	1.74	2.43	1.18	1.04	1.38	1.43	1.23	
18	0.84	1.08	0.89	1.03	1.15	3.09	2.31	1.15	1.04	1.37	1.43	1.20	
19	0.81	1.02	0.90	1.03	1.10	4.00	2.23	1.76	1.04	1.38	1.43	1.20	
20	0.79	0.98	1.76	1.01	1.08	3.35	2.13	1.38	1.03	1.37	1.42	1.19	
21	0.77	0.93	2.29	0.98	1.06	2.81	1.95	1.26	1.01	1.36	1.42	1.18	
22	0.76	0.93	1.72	0.96	1.08	2.59	1.95	1.21	1.01	1.38	1.41	1.13	
23	0.75	0.92	2.08	0.95	1.06	2.50	2.16	1.18	1.01	1.38	1.40	1.09	
24	0.76	0.90	1.95	0.94	1.32	2.75	1.95	1.17	1.00	1.38	1.38	1.06	
25	0.75	0.88	1.57	0.93	2.01	2.68	1.79	1.15	1.01	1.36	1.36	1.02	
26	0.74	0.87	1.38	0.92	1.61	2.76	1.68	1.13	1.09	1.36	1.37	1.08	
27	0.74	0.86	1.38	0.92	1.65	2.36	1.59	1.12	1.20	1.40	1.37	1.11	
28	0.75	0.88	1.26	0.91	1.79	2.20	1.53	1.12	1.30	1.40	1.34	1.16	
29	0.75	1.05	1.28	0.91	1.72	2.12	1.48	1.21	1.30	1.40	1.32	1.17	
30	0.75	0.97	1.56	0.91	1.68	2.28	1.45	1.23	1.30	1.40		1.10	
31		0.96		0.92	1.51		1.42		1.30	1.39		0.96	
MEAN	0.65	0.96	1.17	1.10	1.28	2.16	2.03	1.31	1.08	1.36	1.38	1.23	
MAX	0.84	1.19	2.29	1.57	2.34	4.00	2.85	1.76	1.30	1.46	1.43	1.40	4.00
MIN	0.24	0.75	0.86	0.91	0.93	1.27	1.42	1.12	0.98	1.23	1.32	0.96	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.25 M (A.D), AT 7.00 HOURS, ON SEP 19, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.05 M (A.D)

LEFT BANK ELEVATION — 6.87 M (A.D)

RIGHT BANK ELEVATION — 6.78 M (A.D), DRAINAGE AREA — 167 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.10	0.66	2.15	0.62	2.76	8.44	3.79	1.50	0.00	0.00	0.00	
2	0.00	0.50	0.54	1.62	0.70	2.82	7.74	4.35	1.34	0.00	0.00	0.00	
3	0.04	1.06	0.54	1.46	0.70	3.24	8.44	4.49	1.26	0.00	0.00	0.00	
4	0.06	0.50	0.50	1.30	1.30	2.70	8.26	3.51	1.18	0.00	0.00	0.00	
5	0.08	0.41	0.47	1.26	10.06	2.25	6.94	3.00	1.14	0.00	0.00	0.00	
6	0.06	1.62	0.47	2.00	2.55	2.45	7.10	2.70	1.10	0.00	0.00	0.00	
7	0.00	1.66	0.47	3.79	1.70	2.76	6.46	2.45	0.98	0.00	0.00	0.00	
8	0.00	1.18	0.47	2.88	1.34	2.40	5.50	2.25	0.94	0.00	0.00	0.00	
9	0.00	0.86	0.54	2.45	1.14	2.05	6.46	2.20	0.90	0.00	0.00	0.00	
10	0.00	0.78	0.58	2.70	1.02	3.00	9.34	2.05	0.86	0.00	0.00	0.00	
11	0.00	0.62	0.44	1.95	1.10	9.52	6.94	1.90	0.82	0.00	0.00	0.00	
12	0.00	0.54	0.41	1.62	0.94	12.90	9.43	1.80	0.90	0.00	0.00	0.00	
13	0.00	0.50	0.38	1.46	1.30	14.20	9.16	2.60	1.26	0.00	0.00	0.00	
14	0.00	0.90	0.38	1.26	1.14	9.61	12.80	2.35	1.26	0.00	0.00	0.00	
15	0.00	0.86	0.38	1.14	1.18	6.70	10.87	1.90	1.26	0.00	0.00	0.00	
16	0.00	0.58	0.38	1.18	1.26	5.42	15.05	1.70	1.14	0.00	0.00	0.00	
17	0.00	0.58	0.38	1.02	2.40	5.02	10.87	1.62	1.06	0.00	0.00	0.00	
18	0.32	1.22	0.47	1.02	1.50	17.69	9.79	1.50	1.06	0.00	0.00	0.00	
19	0.23	0.98	0.50	1.02	1.30	28.20	9.07	5.18	1.06	0.00	0.00	0.00	
20	0.18	0.82	5.18	0.94	1.22	20.55	8.17	2.60	1.02	0.00	0.00	0.00	
21	0.14	0.62	9.61	0.82	1.14	14.61	6.70	2.00	0.94	0.00	0.00	0.00	
22	0.12	0.62	4.86	0.74	1.22	12.40	6.70	1.75	0.94	0.00	0.00	0.00	
23	0.10	0.58	7.74	0.70	1.14	11.50	8.44	1.62	0.94	0.00	0.00	0.00	
24	0.12	0.50	6.70	0.66	2.30	14.00	6.70	1.58	0.90	0.00	0.00	0.00	
25	0.10	0.44	3.79	0.62	7.18	13.30	5.42	1.50	0.94	0.00	0.00	0.00	
26	0.08	0.41	2.60	0.58	4.07	14.10	4.56	1.42	0.00	0.00	0.00	0.00	
27	0.08	0.38	2.60	0.58	4.35	10.24	3.93	1.38	0.00	0.00	0.00	0.00	
28	0.10	0.44	2.00	0.54	5.42	8.80	3.51	1.38	0.00	0.00	0.00	0.00	
29	0.10	1.10	2.10	0.54	4.86	8.08	3.18	1.75	0.00	0.00	0.00	0.00	
30	0.10	0.78	3.72	0.54	4.56	9.52	3.00	1.85	0.00	0.00		0.00	
31		0.74		0.58	3.37		2.82		0.00	0.00		0.00	
TOTAL	2.01	22.88	59.86	41.12	74.08	272.79	231.79	70.17	26.70	0.00	0.00	0.00	801.40 CMSDAY
MEAN	0.07	0.74	2.00	1.33	2.39	9.09	7.48	2.34	0.86	0.00	0.00	0.00	2.19 CMS
MAX	0.32	1.66	9.61	3.79	10.06	28.20	15.05	5.18	1.50	0.00	0.00	0.00	28.20 CMS
MIN	0.00	0.10	0.38	0.54	0.62	2.05	2.82	1.38	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.174	1.977	5.172	3.553	6.401	23.569	20.027	6.063	2.307	0.000	0.000	0.000	69.241 MCM

MOMENTARY PEAK 31.50 CMS, AT 4.25 M (A.D), AT 7.00 HOURS, ON SEP 19, 1987

RUNOFF YIELD 13.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 188.62 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

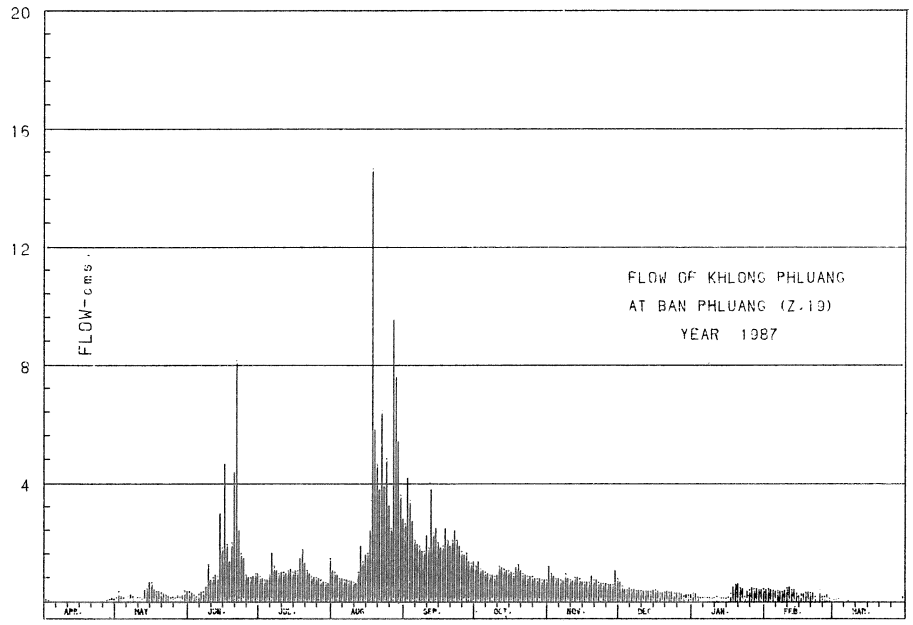
KHLONG PHLUANG AT BAN PHLUANG, CHANTHABURI (Z.19)

LOCATION	LAT. 12°48'16" N., LONG. 102°08'52" E., ON RIGHT BNAK AT THE BRIDGE OF KHLONG PHLUANG NEAR WAT PHLUANG, AMPHOE MAKHAM, CHANTHABURI.
DRAINAGE AREA	21 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 10 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.505 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	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.74	0.77	0.85	0.99	1.03	1.28	1.06	1.06	0.94	0.83	0.87	0.73	
2	0.72	0.85	0.83	0.97	1.02	1.45	1.09	1.01	0.91	0.82	0.88	0.74	
3	0.72	0.79	0.81	0.96	1.00	1.37	1.04	0.99	0.87	0.78	0.87	0.75	
4	0.70	0.77	0.79	0.96	0.97	1.29	1.03	0.97	0.87	0.77	0.86	0.74	
5	0.69	0.76	0.82	1.00	0.97	1.21	1.02	0.97	0.89	0.77	0.85	0.72	
6	0.68	0.78	0.84	1.14	0.96	1.19	1.01	0.96	0.87	0.77	0.86	0.73	
7	0.67	0.81	0.85	1.06	0.96	1.18	1.00	0.95	0.87	0.77	0.85	0.72	
8	0.67	0.79	0.90	1.03	0.95	1.15	1.00	1.01	0.86	0.77	0.85	0.71	
9	0.67	0.76	1.07	1.01	0.95	1.15	0.99	0.97	0.86	0.76	0.86	0.70	
10	0.66	0.77	0.96	1.02	0.94	1.23	1.00	0.96	0.86	0.77	0.89	0.69	
11	0.66	0.77	0.98	1.02	0.93	1.17	1.06	0.95	0.85	0.79	0.90	0.69	
12	0.65	0.75	1.00	1.01	1.02	1.41	1.05	0.98	0.85	0.77	0.87	0.67	
13	0.64	0.86	0.99	1.03	1.18	1.24	1.04	0.98	0.85	0.76	0.87	0.67	
14	0.59	0.88	1.32	1.04	1.09	1.26	1.03	0.97	0.85	0.77	0.83	0.69	
15	0.59	0.94	1.17	1.02	1.13	1.20	1.03	0.94	0.86	0.76	0.80	0.71	
16	0.68	0.94	1.50	1.03	1.14	1.17	1.02	0.94	0.87	0.78	0.82	0.70	
17	0.72	0.87	1.19	1.03	1.25	1.18	1.01	0.94	0.85	0.83	0.82	0.67	
18	0.70	0.85	1.09	1.11	2.29	1.26	1.05	0.94	0.83	0.90	0.84	0.67	
19	0.70	0.85	1.20	1.16	1.62	1.21	1.07	0.99	0.83	0.92	0.84	0.65	
20	0.67	0.84	1.47	1.08	1.50	1.18	1.03	0.96	0.84	0.93	0.84	0.64	
21	0.66	0.82	1.83	1.03	1.41	1.21	1.01	0.96	0.85	0.89	0.83	0.65	
22	0.65	0.81	1.25	1.01	1.68	1.25	1.00	0.94	0.84	0.88	0.79	0.66	
23	0.64	0.79	1.14	0.99	1.42	1.21	0.99	0.93	0.84	0.79	0.76	0.66	
24	0.63	0.77	1.11	0.98	1.52	1.18	0.99	0.93	0.83	0.85	0.87	0.66	
25	0.58	0.78	1.00	0.98	1.35	1.15	0.99	0.93	0.83	0.87	0.79	0.66	
26	0.67	0.77	0.98	0.97	1.26	1.13	0.97	0.92	0.83	0.89	0.79	0.65	
27	0.73	0.80	0.98	0.96	1.94	1.14	0.97	0.92	0.82	0.88	0.81	0.67	
28	0.74	0.78	0.99	0.94	1.79	1.09	0.97	0.92	0.80	0.88	0.76	0.66	
29	0.76	0.80	1.01	0.94	1.58	1.08	0.96	1.03	0.81	0.87	0.76	0.67	
30	0.75	0.86	1.01	0.93	1.39	1.09	0.96	0.97	0.81	0.87		0.78	
31		0.85		1.11	1.30		0.96		0.81	0.88		0.86	
MEAN	0.68	0.81	1.06	1.02	1.28	1.21	1.01	0.96	0.85	0.82	0.84	0.70	
MAX	0.76	0.94	1.83	1.16	2.29	1.45	1.09	1.06	0.94	0.93	0.90	0.86	2.29
MIN	0.58	0.75	0.79	0.93	0.93	1.08	0.96	0.92	0.80	0.76	0.76	0.64	0.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.15 M (A.D), AT 15.00 HOURS, ON AUG 27, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.64 M (A.D)
LEFT BANK ELEVATION 5.18 M (A.D)
RIGHT BANK ELEVATION 5.23 M (A.D), DRAINAGE AREA 21 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.14	0.35	0.86	1.05	2.64	1.20	1.20	0.66	0.29	0.41	0.06	
2	0.04	0.35	0.29	0.78	1.00	4.18	1.35	0.95	0.54	0.26	0.44	0.08	
3	0.04	0.18	0.23	0.74	0.90	3.43	1.10	0.86	0.41	0.16	0.41	0.10	
4	0.00	0.14	0.18	0.74	0.78	2.72	1.05	0.78	0.41	0.14	0.38	0.08	
5	0.00	0.12	0.26	0.90	0.78	2.08	1.00	0.78	0.47	0.14	0.35	0.04	
6	0.00	0.16	0.32	1.64	0.74	1.94	0.95	0.74	0.41	0.14	0.38	0.06	
7	0.00	0.23	0.35	1.20	0.74	1.88	0.90	0.70	0.41	0.14	0.35	0.04	
8	0.00	0.18	0.50	1.05	0.70	1.70	0.90	0.95	0.38	0.14	0.35	0.02	
9	0.00	0.12	1.25	0.95	0.70	1.70	0.86	0.78	0.38	0.12	0.38	0.00	
10	0.00	0.14	0.74	1.00	0.66	2.24	0.90	0.74	0.38	0.14	0.47	0.00	
11	0.00	0.14	0.82	1.00	0.62	1.82	1.20	0.70	0.35	0.18	0.50	0.00	
12	0.00	0.10	0.90	0.95	1.00	3.79	1.15	0.82	0.35	0.14	0.41	0.00	
13	0.00	0.38	0.86	1.05	1.88	2.32	1.10	0.82	0.35	0.12	0.41	0.00	
14	0.00	0.44	2.98	1.10	1.35	2.48	1.05	0.78	0.35	0.14	0.29	0.00	
15	0.00	0.66	1.82	1.00	1.58	2.00	1.05	0.66	0.38	0.12	0.20	0.02	
16	0.00	0.66	4.65	1.05	1.64	1.82	1.00	0.66	0.41	0.16	0.26	0.00	
17	0.04	0.41	1.94	1.05	2.40	1.88	0.95	0.66	0.35	0.29	0.26	0.00	
18	0.00	0.35	1.35	1.46	14.64	2.48	1.15	0.66	0.29	0.50	0.32	0.00	
19	0.00	0.35	2.00	1.76	5.82	2.08	1.25	0.86	0.29	0.58	0.32	0.00	
20	0.00	0.32	4.37	1.30	4.65	1.88	1.05	0.74	0.32	0.62	0.32	0.00	
21	0.00	0.26	8.16	1.05	3.79	2.08	0.95	0.74	0.35	0.47	0.29	0.00	
22	0.00	0.23	2.40	0.95	6.48	2.40	0.90	0.66	0.32	0.44	0.18	0.00	
23	0.00	0.18	1.64	0.86	3.89	2.08	0.86	0.62	0.32	0.18	0.12	0.00	
24	0.00	0.14	1.46	0.82	4.84	1.88	0.86	0.62	0.29	0.35	0.41	0.00	
25	0.00	0.16	0.90	0.82	3.25	1.70	0.86	0.62	0.29	0.41	0.18	0.00	
26	0.00	0.14	0.82	0.78	2.48	1.58	0.78	0.58	0.29	0.47	0.18	0.00	
27	0.06	0.20	0.82	0.74	9.52	1.64	0.78	0.58	0.26	0.44	0.23	0.00	
28	0.08	0.16	0.86	0.66	7.69	1.35	0.78	0.58	0.20	0.44	0.12	0.00	
29	0.12	0.20	0.95	0.66	5.41	1.30	0.74	1.05	0.23	0.41	0.12	0.00	
30	0.10	0.38	0.95	0.62	3.61	1.35	0.74	0.78	0.23	0.41		0.16	
31		0.35		1.46	2.80		0.74		0.23	0.44		0.38	
TOTAL	0.56	7.97	45.12	31.00	97.39	64.42	30.15	22.67	10.90	8.98	9.04	1.04	329.24 CMSDAY
MEAN	0.02	0.26	1.50	1.00	3.14	2.15	0.97	0.76	0.35	0.29	0.31	0.03	0.90 CMS
MAX	0.12	0.66	8.16	1.76	14.64	4.18	1.35	1.20	0.66	0.62	0.50	0.38	14.64 CMS
MIN	0.00	0.10	0.18	0.62	0.62	1.30	0.74	0.58	0.20	0.12	0.12	0.00	0.00 CMS
RUNOFF	0.048	0.689	3.898	2.678	8.414	5.566	2.605	1.959	0.942	0.776	0.781	0.090	28.446 MCM

MOMENTARY PEAK 31.78 CMS, AT 3.15 M (A.D), AT 15.00 HOURS, ON AUG 27, 1987

RUNOFF YIELD 42.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1513.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

CHANTHABURI RIVER BASIN

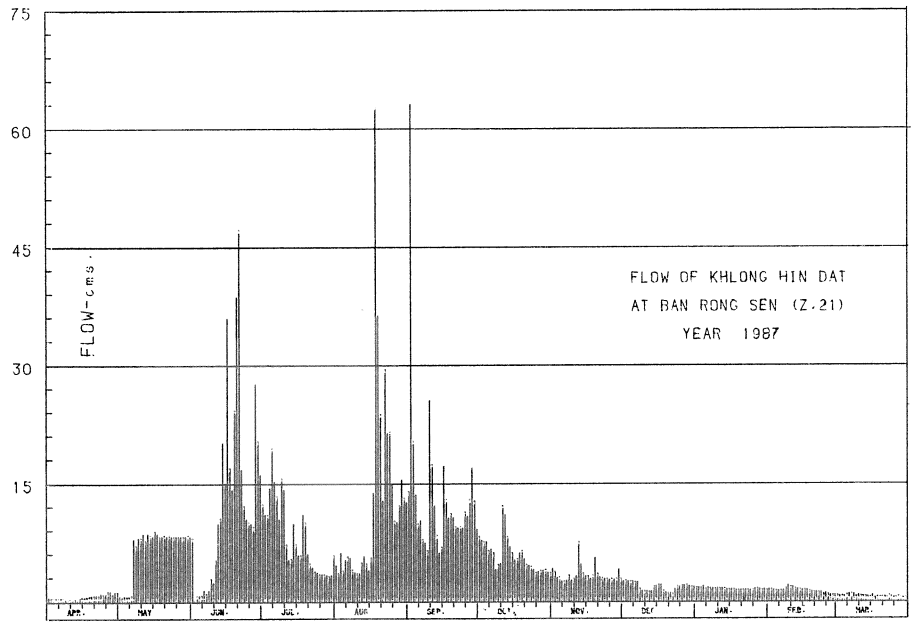
KHLONG HIN DAT AT BAN RONG SEN, CHANTHABURI (T.21)

LOCATION	LAT. 12°47'23" N., LONG. 102°15'33" E., ON LEFT BANK AT THE BRIDGE ON HIGHWAY, BAN RONG SEN, AMPHOE MAKHAM, CHANTHABURI.
DRAINAGE AREA	66 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 40 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+6.487 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 177 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	0.73	1.40	1.63	1.17	1.71	1.41	1.14	1.00	0.91	0.88	0.76	
2	0.69	0.71	0.62	1.56	1.09	3.40	1.38	1.11	1.01	0.91	0.88	0.75	
3	0.68	0.73	0.75	1.56	1.28	2.00	1.37	1.04	1.00	0.91	0.87	0.75	
4	0.68	0.73	0.75	1.73	1.12	1.69	1.37	1.05	1.00	0.93	0.86	0.74	
5	0.69	0.73	0.77	1.96	1.22	1.50	1.30	1.00	1.00	0.89	0.85	0.78	
6	0.68	0.76	0.86	1.77	1.25	1.52	1.31	1.00	0.99	0.91	0.86	0.79	
7	0.68	1.39	0.81	1.68	1.24	1.39	1.28	1.01	0.99	0.90	0.86	0.80	
8	0.61	1.34	0.86	1.53	1.13	1.36	1.13	1.07	0.89	0.90	0.90	0.79	
9	0.62	1.40	1.03	1.79	1.10	1.30	1.18	1.01	0.85	0.90	0.94	0.74	
10	0.64	1.40	0.98	1.72	1.09	2.21	1.19	1.03	0.85	0.90	0.92	0.76	
11	0.63	1.43	1.22	1.35	1.09	1.87	1.62	1.06	0.85	0.90	0.92	0.75	
12	0.64	1.38	1.50	1.22	1.20	1.62	1.56	1.37	0.84	0.90	0.90	0.74	
13	0.63	1.43	1.54	1.23	1.25	1.42	1.41	1.18	0.84	0.90	0.88	0.74	
14	0.70	1.42	1.99	1.50	1.19	1.28	1.33	1.09	0.93	0.88	0.88	0.73	
15	0.72	1.41	1.76	1.35	1.12	1.33	1.28	1.06	0.93	0.88	0.87	0.72	
16	0.71	1.45	2.59	1.26	1.24	1.86	1.22	1.06	0.95	0.88	0.88	0.76	
17	0.72	1.43	1.85	1.26	1.70	1.66	1.23	1.03	0.95	0.88	0.87	0.70	
18	0.74	1.41	1.72	1.56	3.39	1.54	1.28	1.07	0.86	0.87	0.86	0.72	
19	0.75	1.41	2.16	1.51	2.60	1.57	1.30	1.24	0.82	0.87	0.84	0.72	
20	0.76	1.42	2.68	1.27	2.14	1.54	1.23	1.09	0.81	0.87	0.83	0.72	
21	0.76	1.41	2.95	1.19	1.65	1.48	1.18	1.05	0.81	0.87	0.83	0.72	
22	0.76	1.42	1.84	1.15	2.36	1.47	1.17	1.04	0.80	0.87	0.83	0.70	
23	0.80	1.41	1.62	1.11	2.04	1.48	1.16	1.03	0.88	0.87	0.83	0.75	
24	0.79	1.41	1.53	1.10	2.05	1.47	1.13	1.03	0.94	0.86	0.80	0.73	
25	0.78	1.41	1.51	1.08	1.75	1.58	1.10	1.02	0.92	0.87	0.81	0.70	
26	0.85	1.41	1.50	1.08	1.52	1.55	1.11	1.03	0.94	0.89	0.79	0.71	
27	0.84	1.41	1.48	1.08	1.51	1.66	1.12	1.02	0.94	0.90	0.77	0.73	
28	0.79	1.41	2.29	1.07	1.62	1.85	1.12	1.03	0.95	0.88	0.77	0.71	
29	0.83	1.41	2.00	1.06	1.78	1.65	1.13	1.13	0.93	0.87	0.77	0.69	
30	0.83	1.42	1.81	1.07	1.67	1.46	1.10	1.03	0.92	0.88		0.70	
31		1.41		1.26	1.64		1.10		0.92	0.87		0.70	
MEAN	0.72	1.28	1.55	1.38	1.55	1.65	1.25	1.07	0.91	0.89	0.85	0.74	
MAX	0.85	1.45	2.95	1.96	3.39	3.40	1.62	1.37	1.01	0.93	0.94	0.80	3.40
MIN	0.61	0.71	0.62	1.06	1.09	1.28	1.10	1.00	0.80	0.86	0.77	0.69	0.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.50 M (A.D), AT 6.00 HOURS, ON SEP 2, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.37 M (A.D)
LEFT BANK ELEVATION 3.50 M (A.D)
RIGHT BANK ELEVATION 3.49 M (A.D), DRAINAGE AREA 66 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.65	8.10	12.40	4.61	14.01	8.28	4.22	2.60	1.79	1.56	0.80	
2	0.47	0.55	0.26	11.04	3.59	63.10	7.78	3.83	2.71	1.79	1.56	0.75	
3	0.44	0.65	0.75	11.04	6.20	20.40	7.62	3.04	2.60	1.79	1.49	0.75	
4	0.44	0.65	0.75	14.43	3.96	13.60	7.62	3.15	2.60	1.97	1.42	0.70	
5	0.47	0.65	0.85	19.48	5.30	9.90	6.50	2.60	2.60	1.63	1.35	0.90	
6	0.44	0.80	1.42	15.27	5.75	10.28	6.66	2.60	2.51	1.79	1.42	0.95	
7	0.44	7.94	1.07	13.40	5.60	7.94	6.20	2.71	2.51	1.70	1.42	1.00	
8	0.23	7.14	1.42	10.47	4.09	7.46	4.09	3.37	1.63	1.70	1.70	0.95	
9	0.26	8.10	2.93	15.69	3.70	6.50	4.74	2.71	1.35	1.70	2.06	0.70	
10	0.32	8.10	2.42	14.22	3.59	25.56	4.87	2.93	1.35	1.70	1.88	0.80	
11	0.29	8.64	5.30	7.30	3.59	17.44	12.20	3.26	1.35	1.70	1.88	0.75	
12	0.32	7.78	9.90	5.30	5.00	12.20	11.04	7.62	1.28	1.70	1.70	0.70	
13	0.29	8.64	10.66	5.45	5.75	8.46	8.28	4.74	1.28	1.70	1.56	0.70	
14	0.50	8.46	20.17	9.90	4.87	6.20	6.98	3.59	1.97	1.56	1.56	0.65	
15	0.60	8.28	15.06	7.30	3.96	6.98	6.20	3.26	1.97	1.56	1.49	0.60	
16	0.55	9.00	36.01	5.90	5.60	17.22	5.30	3.26	2.15	1.56	1.56	0.80	
17	0.60	8.64	17.00	5.90	13.80	13.00	5.45	2.93	2.15	1.56	1.49	0.50	
18	0.70	8.28	14.22	11.04	62.73	10.66	6.20	3.37	1.42	1.49	1.42	0.60	
19	0.75	8.28	24.30	10.09	36.30	11.23	6.50	5.60	1.14	1.49	1.28	0.60	
20	0.80	8.46	38.70	6.05	23.80	10.66	5.45	3.59	1.07	1.49	1.21	0.60	
21	0.80	8.28	47.25	4.87	12.80	9.54	4.74	3.15	1.07	1.49	1.21	0.60	
22	0.80	8.46	16.78	4.35	29.52	9.36	4.61	3.04	1.00	1.49	1.21	0.50	
23	1.00	8.28	12.20	3.83	21.36	9.54	4.48	2.93	1.56	1.49	1.21	0.75	
24	0.95	8.28	10.47	3.70	21.60	9.36	4.09	2.93	2.06	1.42	1.00	0.65	
25	0.90	8.28	10.09	3.48	14.85	11.42	3.70	2.82	1.88	1.49	1.07	0.50	
26	1.35	8.28	9.90	3.48	10.28	10.85	3.83	2.93	2.06	1.63	0.95	0.55	
27	1.28	8.28	9.54	3.48	10.09	13.00	3.96	2.82	2.06	1.70	0.85	0.65	
28	0.95	8.28	27.64	3.37	12.20	17.00	3.96	2.93	2.15	1.56	0.85	0.55	
29	1.21	8.28	20.40	3.26	15.48	12.80	4.09	4.09	1.97	1.49	0.85	0.47	
30	1.21	8.46	16.12	3.37	13.20	9.18	3.70	2.93	1.88	1.56		0.50	
31		8.28		5.90	12.60		3.70		1.88	1.49		0.50	
TOTAL	19.86	211.13	391.68	254.76	385.77	404.85	182.82	102.95	57.81	50.18	40.21	21.02	2123.04 CMSDAY
MEAN	0.66	6.81	13.06	8.22	12.44	13.50	5.90	3.43	1.86	1.62	1.39	0.68	5.80 CMS
MAX	1.35	9.00	47.25	19.48	62.73	63.10	12.20	7.62	2.71	1.97	2.06	1.00	63.10 CMS
MIN	0.23	0.55	0.26	3.26	3.59	6.20	3.70	2.60	1.00	1.42	0.85	0.47	0.23 CMS
RUNOFF	1.716	18.242	33.841	22.011	33.331	34.979	15.796	8.895	4.995	4.336	3.474	1.816	183.431 MCM

MOMENTARY PEAK 164.00 CMS, AT 5.50 M (A.D), AT 6.00 HOURS, ON SEP 2, 1987
RUNOFF YIELD 87.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2484.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

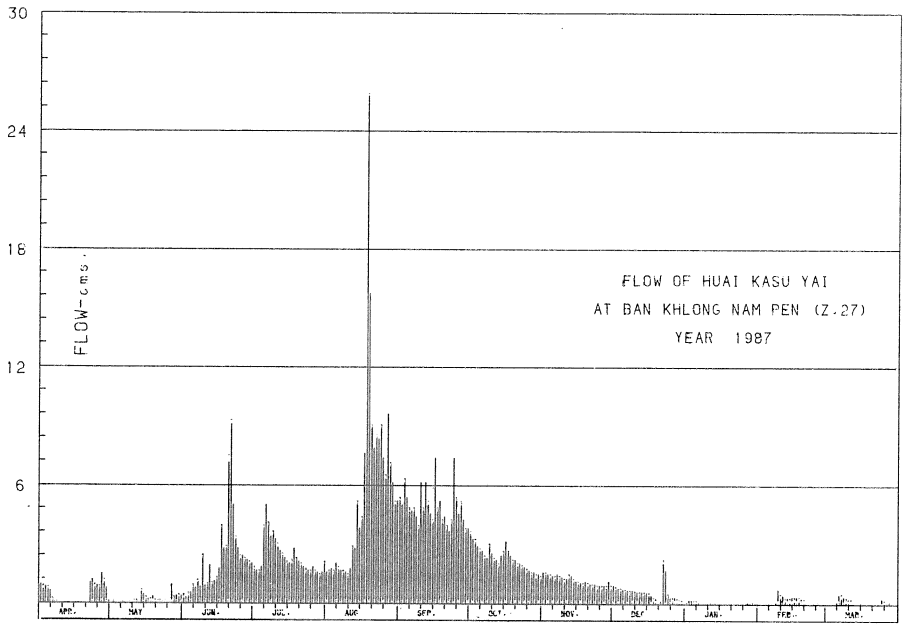
HUAI KASU YAI AT BAN KHLONG NAM PEN, CHANTHABURI (Z.27)

LOCATION	LAT. 12°-55'-22" N., LONG. 102°-05'-48" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN KHLONG NAM PEN, AMPHOE MAKHAM, CHANTHABURI.
DRAINAGE AREA	28 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+3.170 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	1986 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D). WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.95	0.71	0.85	0.55	0.52	0.82	0.71	0.52	0.43	0.72	0.70	0.69	
2	0.94	0.76	0.81	0.53	0.53	0.80	0.68	0.52	0.42	0.77	0.70	0.66	
3	0.93	0.74	0.87	0.53	0.54	0.87	0.68	0.51	0.41	0.76	0.69	0.66	
4	0.93	0.73	0.87	0.55	0.53	0.82	0.65	0.51	0.41	0.76	0.69	0.66	
5	0.89	0.70	0.95	0.73	0.57	0.79	0.64	0.50	0.40	0.76	0.67	0.80	
6	0.80	0.74	0.92	0.80	0.55	0.78	0.63	0.50	0.40	0.74	0.66	0.85	
7	0.73	0.75	0.99	0.74	0.53	0.79	0.61	0.51	0.39	0.75	0.67	0.86	
8	0.73	0.73	0.93	0.69	0.53	0.76	0.60	0.50	0.39	0.75	0.76	0.82	
9	0.70	0.74	1.13	0.71	0.52	0.73	0.66	0.49	0.39	0.76	0.91	0.81	
10	0.61	0.73	0.94	0.68	0.51	0.86	0.62	0.48	0.38	0.75	0.86	0.79	
11	0.48	0.76	0.96	0.66	0.54	0.79	0.60	0.48	0.37	0.73	0.84	0.79	
12	0.41	0.76	1.08	0.63	0.65	0.86	0.59	0.51	0.37	0.72	0.81	0.77	
13	0.37	0.75	0.97	0.62	0.64	0.81	0.57	0.50	0.37	0.72	0.81	0.76	
14	0.27	0.91	0.98	0.60	0.81	0.77	0.61	0.48	0.37	0.72	0.81	0.75	
15	0.19	0.85	1.01	0.58	0.72	0.75	0.63	0.46	0.36	0.72	0.82	0.72	
16	0.18	0.82	1.06	0.57	0.76	0.92	0.67	0.46	0.36	0.72	0.82	0.71	
17	0.18	0.78	0.73	0.59	0.93	0.79	0.63	0.45	0.32	0.71	0.82	0.72	
18	0.07	0.79	0.64	0.64	1.40	0.81	0.61	0.45	0.30	0.70	0.82	0.73	
19	0.00	0.82	0.65	0.60	1.19	0.75	0.59	0.46	0.28	0.69	0.80	0.70	
20	0.07	0.77	0.91	0.58	0.99	0.76	0.59	0.45	0.48	0.70	0.79	0.71	
21	0.50	0.76	1.00	0.57	0.94	0.73	0.57	0.44	0.75	0.68	0.77	0.66	
22	0.97	0.76	0.80	0.55	0.97	0.71	0.57	0.44	1.11	0.68	0.76	0.64	
23	0.99	0.75	0.69	0.54	0.96	0.75	0.56	0.44	1.05	0.67	0.75	0.72	
24	0.95	0.76	0.64	0.53	0.99	0.92	0.55	0.43	0.86	0.67	0.71	0.79	
25	0.94	0.76	0.61	0.53	0.92	0.82	0.54	0.43	0.81	0.70	0.72	0.77	
26	0.94	0.75	0.61	0.55	0.88	0.77	0.53	0.43	0.81	0.69	0.72	0.76	
27	1.03	0.95	0.60	0.53	1.01	0.81	0.52	0.43	0.81	0.78	0.72	0.74	
28	0.99	0.82	0.59	0.52	0.91	0.75	0.52	0.43	0.80	0.73	0.72	0.70	
29	0.92	0.83	0.58	0.51	0.86	0.72	0.51	0.46	0.78	0.73	0.70	0.60	
30	0.74	0.85	0.57	0.52	0.81	0.72	0.51	0.43	0.77	0.72		0.53	
31		0.83		0.58	0.81		0.50		0.77	0.70		0.44	
MEAN	0.65	0.78	0.83	0.60	0.77	0.79	0.60	0.47	0.55	0.72	0.76	0.72	
MAX	1.03	0.95	1.13	0.80	1.40	0.92	0.71	0.52	1.11	0.78	0.91	0.86	1.40
MIN	0.00	0.70	0.57	0.51	0.51	0.71	0.50	0.43	0.28	0.67	0.66	0.44	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.70 M (A.D), AT 9.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.17 M (A.D)
LEFT BANK ELEVATION 4.54 M (A.D)
RIGHT BANK ELEVATION 4.74 M (A.D), DRAINAGE AREA 28 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.95	0.02	0.45	1.85	1.58	5.38	3.65	1.58	0.91	0.05	0.00	0.00	
2	0.89	0.15	0.29	1.67	1.67	5.00	3.26	1.58	0.84	0.17	0.00	0.00	
3	0.83	0.10	0.53	1.67	1.76	6.33	3.26	1.49	0.77	0.15	0.00	0.00	
4	0.83	0.08	0.53	1.85	1.67	5.38	2.90	1.49	0.77	0.15	0.00	0.00	
5	0.61	0.00	0.95	3.95	2.03	4.85	2.78	1.40	0.70	0.15	0.00	0.25	
6	0.25	0.10	0.77	5.00	1.85	4.70	2.66	1.40	0.70	0.10	0.00	0.45	
7	0.08	0.13	1.19	4.10	1.67	4.85	2.42	1.49	0.66	0.13	0.00	0.49	
8	0.08	0.08	0.83	3.38	1.67	4.40	2.30	1.40	0.66	0.13	0.15	0.33	
9	0.00	0.10	2.46	3.65	1.58	3.95	3.02	1.33	0.66	0.15	0.71	0.29	
10	0.00	0.08	0.89	3.26	1.49	6.14	2.54	1.26	0.62	0.13	0.49	0.23	
11	0.00	0.15	1.01	3.02	1.76	4.85	2.30	1.26	0.58	0.08	0.41	0.23	
12	0.00	0.15	1.93	2.66	2.90	6.14	2.21	1.49	0.58	0.05	0.29	0.17	
13	0.00	0.13	1.07	2.54	2.78	5.19	2.03	1.40	0.58	0.05	0.29	0.15	
14	0.00	0.71	1.13	2.30	5.19	4.55	2.42	1.26	0.58	0.05	0.29	0.13	
15	0.00	0.45	1.33	2.12	3.80	4.25	2.66	1.12	0.54	0.05	0.33	0.05	
16	0.00	0.33	1.76	2.03	4.40	7.38	3.14	1.12	0.54	0.05	0.33	0.02	
17	0.00	0.20	3.95	2.21	7.62	4.85	2.66	1.05	0.38	0.02	0.33	0.05	
18	0.00	0.23	2.78	2.78	25.90	5.19	2.42	1.05	0.30	0.00	0.33	0.08	
19	0.00	0.33	2.90	2.30	15.73	4.25	2.21	1.12	0.24	0.00	0.25	0.00	
20	0.00	0.17	7.14	2.12	9.06	4.40	2.21	1.05	0.00	0.00	0.23	0.02	
21	0.00	0.15	9.30	2.03	7.86	3.95	2.03	0.98	0.13	0.00	0.17	0.00	
22	1.07	0.15	5.00	1.85	8.58	3.65	2.03	0.98	2.22	0.00	0.15	0.00	
23	1.19	0.13	3.38	1.76	8.34	4.25	1.94	0.98	1.67	0.00	0.13	0.05	
24	0.95	0.15	2.78	1.67	9.06	7.38	1.85	0.91	0.49	0.00	0.02	0.23	
25	0.89	0.15	2.42	1.67	7.38	5.38	1.76	0.91	0.29	0.00	0.05	0.17	
26	0.89	0.13	2.42	1.85	6.52	4.55	1.67	0.91	0.29	0.00	0.05	0.15	
27	1.50	0.95	2.30	1.67	9.61	5.19	1.58	0.91	0.29	0.20	0.05	0.10	
28	1.19	0.33	2.21	1.58	7.14	4.25	1.58	0.91	0.25	0.08	0.05	0.00	
29	0.77	0.37	2.12	1.49	6.14	3.80	1.49	1.12	0.20	0.08	0.00	0.00	
30	0.10	0.45	2.03	1.58	5.19	3.80	1.49	0.91	0.17	0.05		0.00	
31		0.37		2.12	5.19		1.40		0.17	0.00		0.00	
TOTAL	13.07	7.02	67.85	73.73	177.12	148.23	71.87	35.86	17.78	2.07	5.10	3.64	623.34 CMSDAY
MEAN	0.44	0.23	2.26	2.38	5.71	4.94	2.32	1.20	0.57	0.07	0.18	0.12	1.70 CMS
MAX	1.50	0.95	9.30	5.00	25.90	7.38	3.65	1.58	2.22	0.20	0.71	0.49	25.90 CMS
MIN	0.00	0.00	0.29	1.49	1.49	3.65	1.40	0.91	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	1.129	0.607	5.862	6.370	15.303	12.807	6.210	3.098	1.536	0.179	0.441	0.314	53.857 MCM

MOMENTARY PEAK 44.00 CMS, AT 1.70 M (A.D), AT 9.00 HOURS, ON AUG 18, 1987

RUNOFF YIELD 60.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1571.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

KHLONG TANOT AT BAN KHUN SONG, CHANTHABURI (Z.28)

LOCATION — LAT. 13°-04'-25" N., LONG. 101°-56'-55" E., ON RIGHT BANK NEAR WAT KHUN SONG, TAMBON KAENG HANG MAEO, AMPHOE THA MAI, CHANTHABURI.

DRAINAGE AREA — 267 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 10 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +7.655 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 — 1986 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1986 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1986 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

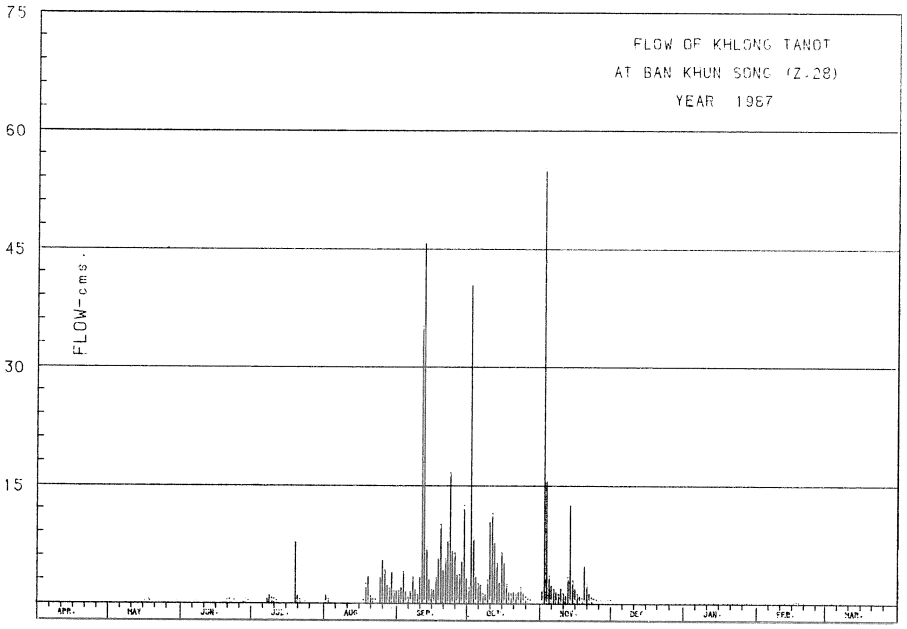
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 124 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.21	0.49	0.48	0.69	0.84	0.92	0.82	0.54	0.40	0.37	0.37	
2	0.27	0.21	0.48	0.48	0.58	0.91	3.73	4.31	0.52	0.39	0.37	0.37	
3	0.27	0.26	0.47	0.47	0.53	1.26	1.77	2.35	0.49	0.39	0.37	0.37	
4	0.26	0.26	0.46	0.47	0.51	0.81	1.16	1.19	0.48	0.39	0.37	0.37	
5	0.24	0.25	0.45	0.46	0.51	0.64	1.02	0.97	0.48	0.39	0.37	0.37	
6	0.23	0.31	0.50	0.48	0.51	0.81	0.99	0.89	0.47	0.39	0.36	0.38	
7	0.23	0.33	0.47	0.72	0.49	1.16	0.76	0.80	0.45	0.39	0.36	0.39	
8	0.22	0.34	0.47	0.69	0.51	0.86	0.72	0.76	0.44	0.39	0.36	0.39	
9	0.22	0.34	0.47	0.63	0.48	0.73	1.10	0.89	0.44	0.39	0.36	0.39	
10	0.21	0.36	0.47	0.60	0.46	1.15	1.94	0.77	0.44	0.38	0.37	0.39	
11	0.20	0.42	0.46	0.53	0.45	3.49	2.04	0.69	0.44	0.38	0.40	0.38	
12	0.20	0.48	0.45	0.50	0.45	3.95	1.69	1.16	0.44	0.38	0.41	0.38	
13	0.19	0.45	0.45	0.48	0.44	1.64	1.40	2.12	0.43	0.38	0.40	0.37	
14	0.18	0.45	0.45	0.47	0.44	1.10	1.03	1.09	0.43	0.38	0.40	0.37	
15	0.16	0.50	0.44	0.46	0.45	0.87	1.56	0.88	0.42	0.38	0.41	0.37	
16	0.17	0.48	0.44	0.45	0.45	0.85	1.40	0.75	0.42	0.38	0.43	0.36	
17	0.17	0.53	0.45	0.46	0.55	1.15	1.01	0.66	0.42	0.38	0.47	0.36	
18	0.16	0.51	0.46	0.45	1.02	1.47	0.80	0.62	0.41	0.38	0.44	0.36	
19	0.16	0.48	0.47	1.74	1.16	1.92	0.76	1.35	0.41	0.38	0.43	0.35	
20	0.15	0.46	0.55	0.69	0.68	1.28	0.80	1.02	0.41	0.38	0.42	0.35	
21	0.15	0.45	0.58	0.57	0.58	1.47	0.74	0.76	0.41	0.38	0.40	0.35	
22	0.17	0.45	0.56	0.51	0.57	1.71	0.80	0.65	0.41	0.38	0.40	0.35	
23	0.17	0.43	0.54	0.48	0.53	2.43	0.94	0.61	0.41	0.38	0.39	0.35	
24	0.20	0.43	0.52	0.47	1.22	1.58	0.77	0.58	0.41	0.38	0.38	0.35	
25	0.19	0.43	0.50	0.46	1.44	1.56	0.67	0.55	0.41	0.38	0.37	0.35	
26	0.20	0.43	0.49	0.45	1.29	1.20	0.60	0.53	0.40	0.38	0.38	0.35	
27	0.22	0.42	0.59	0.44	0.97	1.21	0.56	0.52	0.40	0.38	0.39	0.35	
28	0.21	0.43	0.57	0.43	0.90	1.42	0.54	0.52	0.40	0.38	0.38	0.35	
29	0.21	0.43	0.52	0.43	1.24	2.12	0.52	0.56	0.40	0.37	0.37	0.34	
30	0.20	0.50	0.50	0.43	0.83	1.12	0.51	0.56	0.40	0.37		0.34	
31		0.51		0.45	0.83		0.50		0.40	0.37		0.34	
MEAN	0.20	0.40	0.49	0.54	0.70	1.42	1.09	1.00	0.43	0.38	0.39	0.36	
MAX	0.28	0.53	0.59	1.74	1.44	3.95	3.73	4.31	0.54	0.40	0.47	0.39	4.31
MIN	0.15	0.21	0.44	0.43	0.44	0.64	0.50	0.52	0.40	0.37	0.36	0.34	0.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.15 M (A.D), AT 3.00 HOURS, ON NOV 3, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.17 M (A.D)
LEFT BANK ELEVATION 7.84 M (A.D)
RIGHT BANK ELEVATION 6.70 M (A.D), DRAINAGE AREA 267 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.28	0.26	0.96	1.60	2.00	1.50	0.42	0.10	0.07	0.07	
2	0.00	0.00	0.26	0.26	0.54	1.95	40.39	55.29	0.36	0.09	0.07	0.07	
3	0.00	0.00	0.24	0.24	0.39	4.02	8.40	15.50	0.28	0.09	0.07	0.07	
4	0.00	0.00	0.22	0.24	0.33	1.45	3.36	3.54	0.26	0.09	0.07	0.07	
5	0.00	0.00	0.20	0.22	0.33	0.76	2.52	2.25	0.26	0.09	0.07	0.07	
6	0.00	0.01	0.30	0.26	0.33	1.45	2.35	1.85	0.24	0.09	0.06	0.08	
7	0.00	0.03	0.24	1.08	0.28	3.36	1.24	1.40	0.20	0.09	0.06	0.09	
8	0.00	0.04	0.24	0.96	0.33	1.70	1.08	1.24	0.18	0.09	0.06	0.09	
9	0.00	0.04	0.24	0.72	0.26	1.12	3.00	1.85	0.18	0.09	0.06	0.09	
10	0.00	0.06	0.24	0.60	0.22	3.30	10.28	1.28	0.18	0.08	0.07	0.09	
11	0.00	0.14	0.22	0.39	0.20	35.19	11.48	0.96	0.18	0.08	0.10	0.08	
12	0.00	0.26	0.20	0.30	0.20	45.65	7.61	3.36	0.18	0.08	0.12	0.08	
13	0.00	0.20	0.20	0.26	0.18	7.16	5.10	12.46	0.16	0.08	0.10	0.07	
14	0.00	0.20	0.20	0.24	0.18	3.00	2.58	2.94	0.16	0.08	0.10	0.07	
15	0.00	0.30	0.18	0.22	0.20	1.75	6.44	1.80	0.14	0.08	0.12	0.07	
16	0.00	0.26	0.18	0.20	0.20	1.65	5.10	1.20	0.14	0.08	0.16	0.06	
17	0.00	0.39	0.20	0.22	0.45	3.30	2.46	0.84	0.14	0.08	0.24	0.06	
18	0.00	0.33	0.22	0.20	2.52	5.66	1.40	0.68	0.12	0.08	0.18	0.06	
19	0.00	0.26	0.24	8.10	3.36	10.04	1.24	4.70	0.12	0.08	0.16	0.05	
20	0.00	0.22	0.45	0.96	0.92	4.16	1.40	2.52	0.12	0.08	0.14	0.05	
21	0.00	0.20	0.54	0.51	0.54	5.66	1.16	1.24	0.12	0.08	0.10	0.05	
22	0.00	0.20	0.48	0.33	0.51	7.80	1.40	0.80	0.12	0.08	0.10	0.05	
23	0.00	0.16	0.42	0.26	0.39	16.62	2.10	0.64	0.12	0.08	0.09	0.05	
24	0.00	0.16	0.36	0.24	3.74	6.62	1.28	0.54	0.12	0.08	0.08	0.05	
25	0.00	0.16	0.30	0.22	5.42	6.44	0.88	0.45	0.12	0.08	0.07	0.05	
26	0.00	0.16	0.28	0.20	4.23	3.60	0.60	0.39	0.10	0.08	0.08	0.05	
27	0.00	0.14	0.57	0.18	2.25	3.67	0.48	0.36	0.10	0.08	0.09	0.05	
28	0.00	0.16	0.51	0.16	1.90	5.26	0.42	0.36	0.10	0.08	0.08	0.05	
29	0.00	0.16	0.36	0.16	3.88	12.46	0.36	0.48	0.10	0.07	0.07	0.04	
30	0.00	0.30	0.30	0.16	1.55	3.12	0.33	0.48	0.10	0.07		0.04	
31		0.33		0.20	1.55		0.30		0.10	0.07		0.04	
TOTAL	0.00	4.87	8.87	18.55	38.34	209.52	128.74	122.90	5.22	2.55	2.84	1.96	544.36 CMSDAY
MEAN	0.00	0.16	0.30	0.60	1.24	6.98	4.15	4.10	0.17	0.08	0.10	0.06	1.49 CMS
MAX	0.00	0.39	0.57	8.10	5.42	45.65	40.39	55.29	0.42	0.10	0.24	0.09	55.29 CMS
MIN	0.00	0.00	0.18	0.16	0.18	0.76	0.30	0.36	0.10	0.07	0.06	0.04	0.00 CMS
RUNOFF	0.000	0.421	0.766	1.603	3.313	18.103	11.123	10.619	0.451	0.220	0.245	0.169	47.033 MCM

MOMENTARY PEAK 84.00 CMS, AT 5.15 M (A.D), AT 3.00 HOURS, ON NOV 3, 1987

RUNOFF YIELD 5.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 314.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

EAST COAST-GULF BASIN

KHLONG MAP PHAI AT BAN RAI PA, CHANTHABURI (E.29)

LOCATION — LAT. 12°36'31" N., LONG. 102°15'11" E., ON RIGHT BANK DOWNSTREAM FROM THE BRIDGE OF MAKHAM-KHLUNG HIGHWAY, TAMBON MAP PHAI, AMPHOE KHLUNG, CHANTHABURI.

DRAINAGE AREA — 7 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +2.872 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 — 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

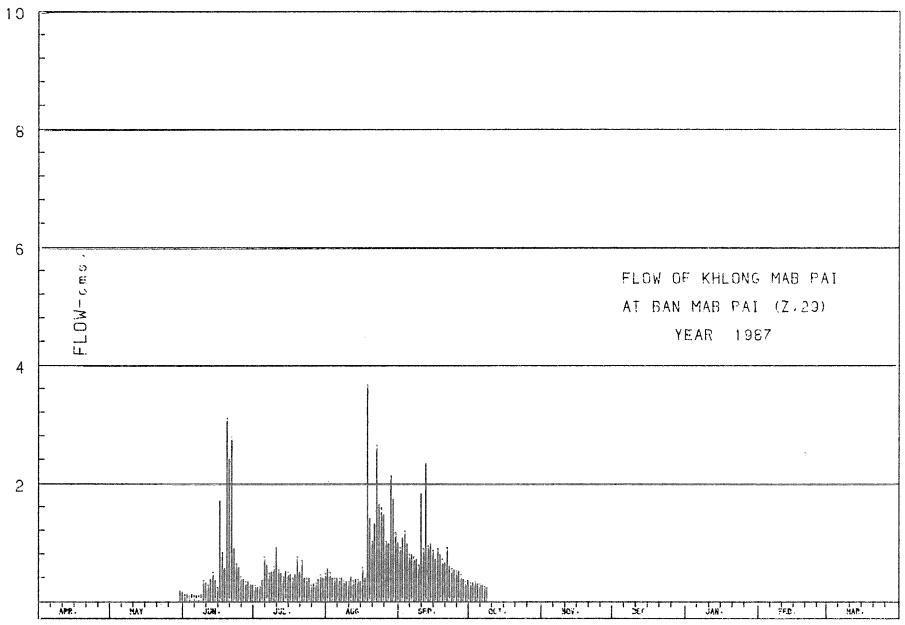
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STREAM GAGING BEGAN ON MAY 1,1987. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.90	0.26	0.34	0.48	0.65	0.36	0.70	0.87	1.00	1.07	1.03	
2	*******	0.79	0.26	0.32	0.45	0.71	0.36	0.70	0.87	1.00	1.06	1.01	
3	*******	0.93	0.25	0.33	0.40	0.75	0.37	0.70	0.87	1.00	1.05	0.83	
4	*******	0.92	0.26	0.38	0.40	0.67	0.35	0.88	0.87	1.03	0.96	0.75	
5	*******	0.94	0.25	0.58	0.40	0.60	0.35	0.88	0.87	1.11	0.98	0.75	
6	*******	1.15	0.25	0.51	0.40	0.60	0.34	0.88	0.87	1.12	0.97	0.88	
7	*******	0.91	0.25	0.44	0.40	0.58	0.33	0.88	0.87	1.11	1.07	1.05	
8	*******	0.80	0.26	0.45	0.38	0.56	0.32	0.88	0.87	1.08	1.10	1.09	
9	*******	0.45	0.38	0.50	0.37	0.51	0.90	0.88	0.92	1.04	1.10	1.06	
10	*******	0.42	0.36	0.65	0.37	0.96	0.90	0.94	0.97	1.08	1.10	1.07	
11	*******	0.43	0.34	0.47	0.41	0.64	0.90	0.88	1.00	1.08	1.10	1.07	
12	*******	0.45	0.39	0.44	0.38	1.11	0.89	0.88	1.00	1.09	1.08	1.02	
13	*******	0.45	0.45	0.41	0.39	0.66	0.80	0.89	1.00	1.06	1.08	0.90	
14	*******	0.45	0.38	0.46	0.39	0.67	0.73	0.89	1.00	1.06	1.09	0.89	
15	*******	0.45	0.32	0.45	0.37	0.63	0.64	0.78	1.00	1.09	1.10	0.85	
16	*******	0.45	0.92	0.43	0.49	0.56	0.64	0.87	0.94	1.08	1.10	0.75	
17	*******	0.44	0.61	0.40	0.40	0.64	0.61	0.96	0.98	1.03	1.10	0.74	
18	*******	0.43	0.48	0.43	1.49	0.60	0.59	0.87	1.00	1.06	1.10	0.71	
19	*******	0.43	1.33	0.58	0.82	0.56	0.59	0.90	1.00	1.06	1.10	0.51	
20	*******	0.43	1.13	0.45	0.69	0.53	0.59	0.85	1.00	1.04	1.10	0.31	
21	*******	0.43	1.24	0.55	0.79	0.65	0.58	0.92	1.00	1.03	1.10	0.38	
22	*******	0.43	0.64	0.40	1.20	0.50	0.56	0.98	0.99	1.06	1.08	0.41	
23	*******	0.43	0.52	0.40	0.90	0.48	0.56	0.92	0.99	1.06	0.98	0.42	
24	*******	0.43	0.49	0.40	0.88	0.47	0.56	0.98	0.99	1.05	0.79	0.61	
25	*******	0.42	0.41	0.34	0.84	0.46	0.74	0.85	0.99	1.06	0.93	0.59	
26	*******	0.42	0.39	0.35	0.69	0.46	0.88	0.85	0.98	1.07	1.08	0.57	
27	*******	0.45	0.37	0.36	0.67	0.43	0.88	0.87	0.98	1.10	1.09	0.63	
28	*******	0.32	0.37	0.39	1.05	0.39	0.88	0.92	0.97	1.10	1.09	0.65	
29	*******	0.26	0.37	0.43	0.93	0.37	0.88	0.90	0.92	1.11	1.05	0.43	
30	*******	0.30	0.34	0.40	0.74	0.38	0.70	0.81	0.96	1.07		0.34	
31		0.28		0.44	0.68		0.81		1.00	1.09		0.34	
MEAN	*******	0.54	0.48	0.43	0.62	0.59	0.63	0.87	0.95	1.07	1.06	0.73	
MAX	*******	1.15	1.33	0.65	1.49	1.11	0.90	0.98	1.00	1.12	1.10	1.09	1.49
MIN	*******	0.26	0.25	0.32	0.37	0.37	0.32	0.70	0.87	1.00	0.79	0.31	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.27 M (A.D), AT 18.00 HOURS, ON AUG 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.11 M (A.D)
LEFT BANK ELEVATION 2.53 M (A.D)
RIGHT BANK ELEVATION 2.62 M (A.D), DRAINAGE AREA 7 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.00	0.12	0.28	0.56	0.92	0.32	0.00	0.00	0.00	0.00	0.00	
2	*******	0.00	0.12	0.24	0.50	1.08	0.32	0.00	0.00	0.00	0.00	0.00	
3	*******	0.00	0.10	0.26	0.40	1.20	0.34	0.00	0.00	0.00	0.00	0.00	
4	*******	0.00	0.12	0.36	0.40	0.98	0.30	0.00	0.00	0.00	0.00	0.00	
5	*******	0.00	0.10	0.76	0.40	0.80	0.30	0.00	0.00	0.00	0.00	0.00	
6	*******	0.00	0.10	0.62	0.40	0.80	0.28	0.00	0.00	0.00	0.00	0.00	
7	*******	0.00	0.10	0.48	0.40	0.76	0.26	0.00	0.00	0.00	0.00	0.00	
8	*******	0.00	0.12	0.50	0.36	0.72	0.24	0.00	0.00	0.00	0.00	0.00	
9	*******	0.00	0.36	0.60	0.34	0.62	0.00	0.00	0.00	0.00	0.00	0.00	
10	*******	0.00	0.32	0.92	0.34	1.83	0.00	0.00	0.00	0.00	0.00	0.00	
11	*******	0.00	0.28	0.54	0.42	0.90	0.00	0.00	0.00	0.00	0.00	0.00	
12	*******	0.00	0.38	0.48	0.36	2.34	0.00	0.00	0.00	0.00	0.00	0.00	
13	*******	0.00	0.50	0.42	0.38	0.95	0.00	0.00	0.00	0.00	0.00	0.00	
14	*******	0.00	0.36	0.52	0.38	0.98	0.00	0.00	0.00	0.00	0.00	0.00	
15	*******	0.00	0.24	0.50	0.34	0.87	0.00	0.00	0.00	0.00	0.00	0.00	
16	*******	0.00	1.71	0.46	0.58	0.72	0.00	0.00	0.00	0.00	0.00	0.00	
17	*******	0.00	0.83	0.40	0.40	0.90	0.00	0.00	0.00	0.00	0.00	0.00	
18	*******	0.00	0.56	0.46	3.67	0.80	0.00	0.00	0.00	0.00	0.00	0.00	
19	*******	0.00	3.11	0.76	1.41	0.72	0.00	0.00	0.00	0.00	0.00	0.00	
20	*******	0.00	2.41	0.50	1.02	0.66	0.00	0.00	0.00	0.00	0.00	0.00	
21	*******	0.00	2.79	0.70	1.32	0.92	0.00	0.00	0.00	0.00	0.00	0.00	
22	*******	0.00	0.90	0.40	2.65	0.60	0.00	0.00	0.00	0.00	0.00	0.00	
23	*******	0.00	0.64	0.40	1.65	0.56	0.00	0.00	0.00	0.00	0.00	0.00	
24	*******	0.00	0.58	0.40	1.59	0.54	0.00	0.00	0.00	0.00	0.00	0.00	
25	*******	0.00	0.42	0.28	1.47	0.52	0.00	0.00	0.00	0.00	0.00	0.00	
26	*******	0.00	0.38	0.30	1.02	0.52	0.00	0.00	0.00	0.00	0.00	0.00	
27	*******	0.00	0.34	0.32	0.98	0.46	0.00	0.00	0.00	0.00	0.00	0.00	
28	*******	0.00	0.34	0.38	2.13	0.38	0.00	0.00	0.00	0.00	0.00	0.00	
29	*******	0.00	0.34	0.46	1.74	0.34	0.00	0.00	0.00	0.00	0.00	0.00	
30	*******	0.20	0.28	0.40	1.17	0.36	0.00	0.00	0.00	0.00		0.00	
31		0.16		0.48	1.00		0.00		0.00	0.00		0.00	
TOTAL	*******	0.36	18.95	14.58	29.78	24.75	2.36	0.00	0.00	0.00	0.00	0.00	******** CMSDAY
MEAN	*******	0.01	0.63	0.47	0.96	0.82	0.08	0.00	0.00	0.00	0.00	0.00	******** CMS
MAX	*******	0.20	3.11	0.92	3.67	2.34	0.34	0.00	0.00	0.00	0.00	0.00	3.67 CMS
MIN	*******	0.00	0.10	0.24	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	******** CMS
RUNOFF	*******	0.031	1.637	1.260	2.573	2.138	0.204	0.000	0.000	0.000	0.000	0.000	******** MCM

MOMENTARY PEAK 6.78 CMS, AT 2.27 M (A.D), AT 18.00 HOURS, ON AUG 28. 1987

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 968.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

KHWAE NOI RIVER 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 — ,008 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +30.40 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +52.057 M. (M.S.L.)

GAGE READING FREQUENCY — 16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1965 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

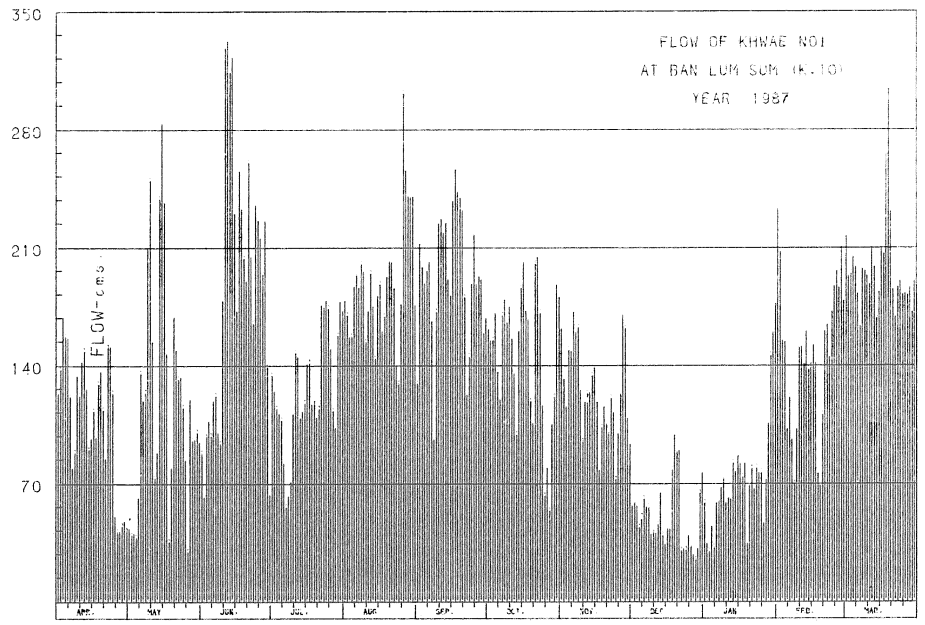
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 186 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	32.59	31.39	32.11	32.77	33.38	32.70	33.16	33.14	31.61	31.67	34.08	33.90	
2	32.82	31.35	31.70	32.61	33.28	33.82	33.04	32.74	31.68	31.24	33.78	33.58	
3	33.24	31.34	32.25	32.49	33.07	33.67	33.07	32.48	31.61	31.19	33.04	33.62	
4	33.10	31.33	32.36	32.42	33.10	33.52	33.27	32.99	31.43	31.41	33.06	33.72	
5	33.06	31.69	32.26	32.39	33.50	33.64	32.80	32.95	31.48	31.23	32.29	33.67	
6	32.59	32.79	32.53	32.00	33.61	33.68	32.54	33.31	31.71	31.64	32.59	33.44	
7	31.96	32.53	32.60	31.63	33.49	33.23	33.28	33.11	31.60	31.69	32.20	33.19	
8	32.12	32.63	32.26	31.71	33.69	32.20	33.39	33.18	31.63	31.79	31.85	33.63	
9	32.74	33.78	32.19	31.84	33.61	33.31	33.22	32.62	31.33	31.90	32.29	33.64	
10	32.60	34.32	33.38	32.42	33.05	33.97	33.33	32.21	31.37	31.64	33.01	33.58	
11	32.86	33.03	35.31	32.96	33.29	34.03	33.08	32.52	31.34	31.72	32.99	33.54	
12	32.98	31.90	35.34	32.90	33.62	33.90	32.76	32.62	31.46	31.68	32.87	33.79	
13	32.63	32.09	35.13	32.41	33.33	34.00	32.27	32.60	31.74	32.03	33.12	33.67	
14	32.14	34.18	35.22	32.44	32.91	33.55	33.12	32.77	31.35	31.93	32.82	33.23	
15	32.21	34.72	34.07	32.54	33.42	33.45	33.51	32.81	31.23	32.09	32.85	33.48	
16	32.47	34.15	33.29	32.84	33.54	34.14	33.68	32.55	31.42	32.00	33.03	33.79	
17	32.22	32.93	34.39	32.88	33.12	34.40	33.32	31.94	31.38	31.91	32.85	33.77	
18	32.70	31.29	34.08	32.50	33.27	34.21	33.22	32.33	31.97	32.00	31.94	34.49	
19	32.78	31.96	33.73	32.53	33.57	34.19	32.55	32.48	32.24	31.27	31.81	35.00	
20	32.48	33.27	33.54	32.39	33.71	34.07	32.34	32.36	32.12	31.81	32.44	34.06	
21	32.04	32.96	34.45	32.49	33.68	33.43	33.69	32.26	32.11	31.98	33.12	33.50	
22	33.01	32.74	33.72	33.34	33.51	32.58	33.72	32.58	31.20	31.78	33.21	33.24	
23	32.99	32.73	33.21	33.35	32.83	32.93	33.30	32.43	31.19	31.99	32.90	33.52	
24	32.62	32.50	34.11	33.38	32.70	33.52	32.49	31.89	31.21	31.92	33.32	33.54	
25	31.51	32.03	34.02	33.34	33.35	33.91	31.74	32.25	31.32	31.95	33.50	33.46	
26	31.39	31.19	33.86	32.97	34.97	33.52	31.96	32.62	31.24	31.44	33.64	33.44	
27	31.36	32.54	33.61	32.47	34.37	33.60	31.59	33.26	31.13	31.89	33.49	33.46	
28	31.45	32.22	33.99	32.30	34.20	33.55	32.33	33.17	31.11	32.34	33.82	33.49	
29	31.46	32.20	32.84	33.11	34.17	33.13	32.59	32.38	31.19	32.94	33.38	33.31	
30	31.40	32.29	31.72	33.37	34.20	33.23	33.51	32.19	31.77	33.11		33.54	
31		32.18		33.32	33.34		33.44		31.92	33.38		33.43	
MEAN	32.38	32.52	33.44	32.65	33.51	33.57	32.95	32.62	31.52	31.89	32.94	33.64	
MAX	33.24	34.72	35.34	33.38	34.97	34.40	33.72	33.31	32.24	33.38	34.08	35.00	35.34
MIN	31.36	31.19	31.70	31.63	32.70	32.20	31.59	31.89	31.11	31.19	31.81	33.19	31.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 35.75 M (MSL), AT 21.00 HOURS, ON JUN 11, 1987
ZERO GAGE AT BOTTOM ELEVATION 30.40 M (MSL), RIVER BED 28.92 M (MSL)
LEFT BANK ELEVATION 51.80 M (MSL)
RIGHT BANK ELEVATION 48.68 M (MSL), DRAINAGE AREA 7008 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	123.30	43.40	89.70	135.90	178.60	131.00	163.20	161.80	56.60	60.20	232.87	218.64	
2	139.40	41.00	62.00	124.70	171.60	212.31	154.80	133.80	60.80	34.40	209.15	193.33	
3	168.80	40.40	99.50	116.30	156.90	200.45	156.90	115.60	56.60	31.40	154.80	196.49	
4	159.00	39.80	107.20	111.40	159.00	188.58	170.90	151.30	45.80	44.60	156.20	204.40	
5	156.20	61.40	100.20	109.30	187.00	198.07	138.00	148.50	48.80	33.80	102.30	200.45	
6	123.30	137.30	119.10	82.00	195.70	201.24	119.80	173.70	62.60	58.40	123.30	182.80	
7	79.20	119.10	124.00	57.80	186.30	168.10	171.60	159.70	56.00	61.40	96.00	165.30	
8	90.40	126.10	100.20	62.60	202.03	96.00	179.30	164.60	57.80	67.40	71.50	197.28	
9	133.80	209.15	95.30	70.80	195.70	173.70	167.40	125.40	39.80	75.00	102.30	198.07	
10	124.00	251.85	178.60	111.40	155.50	224.17	175.10	96.70	42.20	58.40	152.70	193.33	
11	142.20	154.10	330.15	149.20	172.30	228.92	157.60	118.40	40.40	63.20	151.30	190.16	
12	150.60	75.00	332.53	145.00	196.49	218.64	135.20	125.40	47.60	60.80	142.90	209.94	
13	126.10	88.30	315.92	110.70	175.10	226.55	100.90	124.00	64.40	84.10	160.40	200.45	
14	91.80	240.78	323.04	112.80	145.70	190.95	160.40	135.90	41.00	77.10	139.40	168.10	
15	96.70	283.49	232.08	119.80	181.40	183.50	187.79	138.70	33.80	88.30	141.50	185.60	
16	114.90	238.41	172.30	140.80	190.16	237.62	201.24	120.50	45.20	82.00	154.10	209.94	
17	97.40	147.10	257.39	143.60	160.40	258.18	174.40	77.80	42.80	75.70	141.50	208.35	
18	131.00	37.40	232.87	117.00	170.90	243.15	167.40	105.10	79.90	82.00	77.80	265.30	
19	136.60	79.20	205.19	119.10	192.54	241.57	120.50	115.60	98.80	36.20	68.70	305.64	
20	115.60	170.90	190.16	109.30	203.61	232.08	105.80	107.20	90.40	68.70	112.80	231.29	
21	84.80	149.20	262.14	116.30	201.24	182.10	202.03	100.20	89.70	80.60	160.40	187.00	
22	152.70	133.80	204.40	175.80	187.79	122.60	204.40	122.60	32.00	66.80	166.70	168.80	
23	151.30	133.10	166.70	176.50	140.10	147.10	173.00	112.10	31.40	81.30	145.00	188.58	
24	125.40	117.00	235.25	178.60	131.00	188.58	116.30	74.30	32.60	76.40	174.40	190.16	
25	50.60	84.10	228.13	175.80	176.50	219.43	64.40	99.50	39.20	78.50	187.00	184.20	
26	43.40	31.40	215.47	149.90	303.26	188.58	79.20	125.40	34.40	46.40	198.07	182.80	
27	41.60	119.80	195.70	114.90	255.81	194.91	55.40	170.20	27.80	74.30	186.30	184.20	
28	47.00	97.40	225.75	103.00	242.36	190.95	105.10	163.90	26.60	105.80	212.31	186.30	
29	47.60	96.00	140.80	159.70	239.99	161.10	123.30	108.60	31.40	147.80	178.60	173.70	
30	44.00	102.30	63.20	177.90	242.36	168.10	187.79	95.30	66.20	159.70		190.16	
31		94.60		174.40	175.80		182.80		76.40	178.60		182.10	
TOTAL	3288.70	3742.88	5604.97	3952.30	5873.14	5818.23	4601.95	3771.80	1599.00	2339.30	4300.30	6142.86	51035.43 CMSDAY
MEAN	109.62	120.74	186.83	127.49	189.46	193.94	148.45	125.73	51.58	75.46	148.29	198.16	139.44 CMS
MAX	168.80	283.49	332.53	178.60	303.26	258.18	204.40	173.70	98.80	178.60	232.87	305.64	332.53 CMS
MIN	41.60	31.40	62.00	57.80	131.00	96.00	55.40	74.30	26.60	31.40	68.70	165.30	26.60 CMS
RUNOFF	284.144	323.385	484.270	341.479	507.439	502.695	397.608	325.884	138.154	202.116	371.546	530.743	4409.461 MCM

MOMENTARY PEAK 365.50 CMS, AT 35.75 M (MSL), AT 21.00 HOURS, ON JUN 11, 1987

RUNOFF YIELD 19.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 52.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

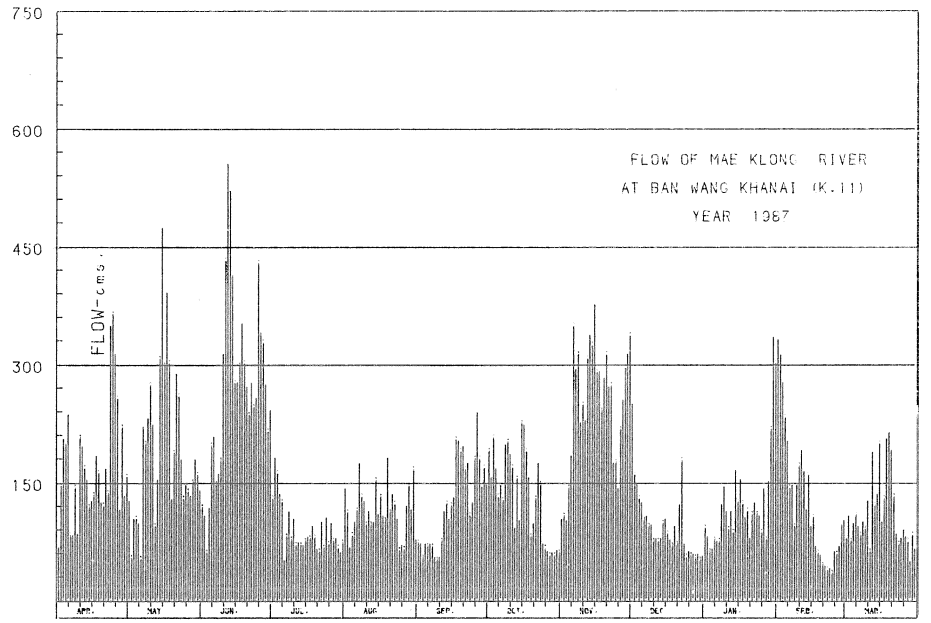
MAE KLONG RIVER AT BAN WANG KHANAI, KANCHANABURI (K.11)

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	+11.928 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG THE GAGE LINE.
ELEVATION	+21.985 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1969, 1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1969, 1972 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY VACHIRALONGKORN DIVERSION DAM FOR IRRIGATION OF ABOUT 419,520 HECTARES ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.55	11.86	11.84	11.89	11.93	11.61	12.15	11.75	12.37	11.71	12.66	11.64	
2	11.96	11.49	11.77	12.10	11.81	11.58	11.99	11.79	12.02	11.63	12.61	11.77	
3	12.20	11.75	11.53	12.03	11.55	11.49	12.22	11.74	11.96	11.54	12.47	11.62	
4	12.19	11.77	11.82	11.90	11.66	11.58	12.04	11.95	11.89	11.54	12.32	11.72	
5	12.32	11.72	12.18	11.87	11.73	11.58	11.90	12.11	11.85	11.63	12.19	11.79	
6	11.66	11.48	12.21	11.44	11.82	11.58	11.95	12.73	11.76	11.60	11.95	11.70	
7	11.64	12.26	11.97	11.65	12.07	11.58	11.88	12.53	11.77	11.62	11.95	11.66	
8	11.95	12.19	12.01	11.80	11.90	11.47	12.17	12.61	11.72	11.84	11.72	11.73	
9	11.65	12.30	12.10	11.63	11.86	11.47	12.20	12.28	11.71	11.96	11.95	11.70	
10	12.22	12.47	12.60	11.75	11.73	11.47	12.12	12.38	11.62	11.80	12.07	11.86	
11	12.16	12.27	13.00	11.59	11.80	11.62	12.06	12.29	11.62	11.70	12.14	11.54	
12	12.06	11.72	13.37	11.59	11.73	11.80	11.69	12.59	11.62	11.80	12.04	12.13	
13	11.98	11.98	13.28	11.59	11.73	11.86	12.00	12.68	11.62	11.68	11.81	11.85	
14	11.84	12.59	12.93	11.57	11.99	11.75	11.74	12.65	11.74	12.03	12.02	11.90	
15	11.86	13.12	12.48	11.62	11.78	11.85	12.29	12.81	11.75	11.87	11.70	12.19	
16	11.91	12.56	12.47	11.63	11.90	11.88	12.27	12.53	11.67	11.98	11.78	11.73	
17	12.11	12.86	12.56	11.64	11.77	12.21	12.15	12.52	11.61	11.86	11.56	11.89	
18	12.03	12.57	12.73	11.70	11.76	12.19	11.99	12.35	11.59	11.76	11.53	12.20	
19	11.85	11.87	12.57	11.64	12.10	12.15	11.65	12.49	11.70	11.82	11.49	12.25	
20	11.85	12.14	12.45	11.54	11.81	12.16	11.72	12.61	11.60	11.62	11.42	12.14	
21	12.04	12.51	12.33	11.54	11.90	12.05	11.89	12.45	11.84	11.80	11.39	11.90	
22	11.92	12.42	12.47	11.73	11.86	12.07	12.07	12.47	12.10	11.85	11.38	11.65	
23	12.72	12.09	12.37	11.57	11.75	11.79	11.97	12.07	11.58	11.80	11.37	11.60	
24	12.78	11.89	12.40	11.76	11.55	11.85	11.58	12.09	11.50	11.77	11.35	11.62	
25	12.60	11.95	12.99	11.60	11.57	12.11	11.57	11.93	11.52	11.68	11.52	11.70	
26	12.41	11.93	12.69	11.72	11.56	12.33	11.52	12.26	11.51	11.93	11.52	11.63	
27	11.81	11.89	12.66	11.62	11.83	12.11	11.51	12.39	11.50	11.63	11.56	11.62	
28	12.27	11.98	12.46	11.62	11.96	11.94	11.51	12.55	11.49	11.97	11.73	11.43	
29	11.89	12.09	12.25	11.57	11.81	12.06	11.51	12.60	11.50	12.26	11.74	11.66	
30	12.01	12.02	12.34	11.51	12.05	11.95	11.53	12.69	11.47	12.67		11.54	
31		11.92		11.61	11.61		11.53		11.48	12.57		11.52	
MEAN	12.05	12.12	12.43	11.68	11.80	11.84	11.88	12.36	11.70	11.84	11.83	11.77	
MAX	12.78	13.12	13.37	12.10	12.10	12.33	12.29	12.81	12.37	12.67	12.66	12.25	13.37
MIN	11.55	11.48	11.53	11.44	11.55	11.47	11.51	11.74	11.47	11.54	11.35	11.43	11.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 13.54 M (MSL), AT 11.00 HOURS, ON JUN 25, 1987
ZERO GAGE AT BOTTOM ELEVATION 11.93 M (MSL), RIVER BED 9.97 M (MSL)
LEFT BANK ELEVATION 22.25 M (MSL)
RIGHT BANK ELEVATION 22.88 M (MSL), DRAINAGE AREA 26449 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	68.00	127.20	122.80	133.80	142.90	77.90	194.00	104.50	250.20	96.90	332.00	83.60	
2	149.80	58.60	108.30	182.00	116.20	72.80	156.70	112.10	163.60	81.70	317.00	108.30	
3	206.00	104.50	64.80	165.90	68.00	58.60	211.20	102.60	149.80	66.40	277.60	79.80	
4	203.60	108.30	118.40	136.00	87.40	72.80	168.20	147.50	133.80	66.40	237.20	98.80	
5	237.20	98.80	201.20	129.40	100.70	72.80	136.00	184.40	125.00	81.70	203.60	112.10	
6	87.40	57.20	208.60	51.60	118.40	72.80	147.50	353.00	106.40	76.00	147.50	95.00	
7	83.60	221.60	152.10	85.50	175.10	72.80	131.60	294.40	108.30	79.80	147.50	87.40	
8	147.50	203.60	161.30	114.00	136.00	55.80	198.80	317.00	98.80	122.80	98.80	100.70	
9	85.50	232.00	182.00	81.70	127.20	55.80	206.00	226.80	96.90	149.80	147.50	95.00	
10	211.20	277.60	314.00	104.50	100.70	55.80	186.80	252.80	79.80	114.00	175.10	127.20	
11	196.40	224.20	436.00	74.40	114.00	79.80	172.80	229.40	79.80	95.00	191.60	66.40	
12	172.80	98.80	555.80	74.40	100.70	114.00	93.10	311.20	79.80	114.00	168.20	189.20	
13	154.40	154.40	525.60	74.40	100.70	127.20	159.00	338.00	79.80	91.20	116.20	125.00	
14	122.80	311.20	413.60	71.20	156.70	104.50	102.60	329.00	102.60	165.90	163.60	136.00	
15	127.20	474.40	280.40	79.80	110.20	125.00	229.40	377.00	104.50	129.40	95.00	203.60	
16	138.30	302.80	277.60	81.70	136.00	131.60	224.20	294.40	89.30	154.40	110.20	100.70	
17	184.40	392.00	302.80	83.60	108.30	208.60	194.00	291.60	77.90	127.20	69.60	133.80	
18	165.90	305.60	353.00	95.00	106.40	203.60	156.70	245.00	74.40	106.40	64.80	206.00	
19	125.00	129.40	305.60	83.60	182.00	194.00	85.50	283.20	95.00	118.40	58.60	219.00	
20	125.00	191.60	272.00	66.40	116.20	196.40	98.80	317.00	76.00	79.80	48.80	191.60	
21	168.20	288.80	239.80	66.40	136.00	170.50	133.80	272.00	122.80	114.00	44.60	136.00	
22	140.60	263.60	277.60	100.70	127.20	175.10	175.10	277.60	182.00	125.00	43.20	85.50	
23	350.00	179.70	250.20	71.20	104.50	112.10	152.10	175.10	72.80	114.00	41.80	76.00	
24	368.00	133.80	258.00	106.40	68.00	125.00	72.80	179.70	60.00	108.30	39.00	79.80	
25	314.00	147.50	432.80	76.00	71.20	184.40	71.20	142.90	63.20	91.20	63.20	95.00	
26	260.80	142.90	341.00	98.80	69.60	239.80	63.20	221.60	61.60	142.90	63.20	81.70	
27	116.20	133.80	332.00	79.80	120.60	184.40	61.60	255.40	60.00	81.70	69.60	79.80	
28	224.20	154.40	274.80	79.80	149.80	145.20	61.60	300.00	58.60	152.10	100.70	50.20	
29	133.80	179.70	219.00	71.20	116.20	172.80	61.60	314.00	60.00	221.60	102.60	87.40	
30	161.30	163.60	242.40	61.60	170.50	147.50	64.80	341.00	55.80	335.00		66.40	
31		140.60		77.90	77.90		64.80		57.20	305.60		63.20	
TOTAL	5229.10	6002.20	8223.50	2858.70	3615.30	3809.40	4235.50	7590.20	3025.70	3908.60	3738.30	3460.20	55696.70 CMSDAY
MEAN	174.30	193.62	274.12	92.22	116.62	126.98	136.63	253.01	97.60	126.08	128.91	111.62	152.18 CMS
MAX	368.00	474.40	555.80	182.00	182.00	239.80	229.40	377.00	250.20	335.00	332.00	219.00	555.80 CMS
MIN	68.00	57.20	64.80	51.60	68.00	55.80	61.60	102.60	55.80	66.40	39.00	50.20	39.00 CMS
RUNOFF	451.794	518.590	710.510	246.992	312.362	329.132	365.947	655.793	261.421	337.703	322.989	298.961	4812.195 MCM

MOMENTARY PEAK 613.60 CMS, AT 13.54 M (MSL), AT 11.00 HOURS, ON JUN 25, 1987

RUNOFF YIELD 5.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN.

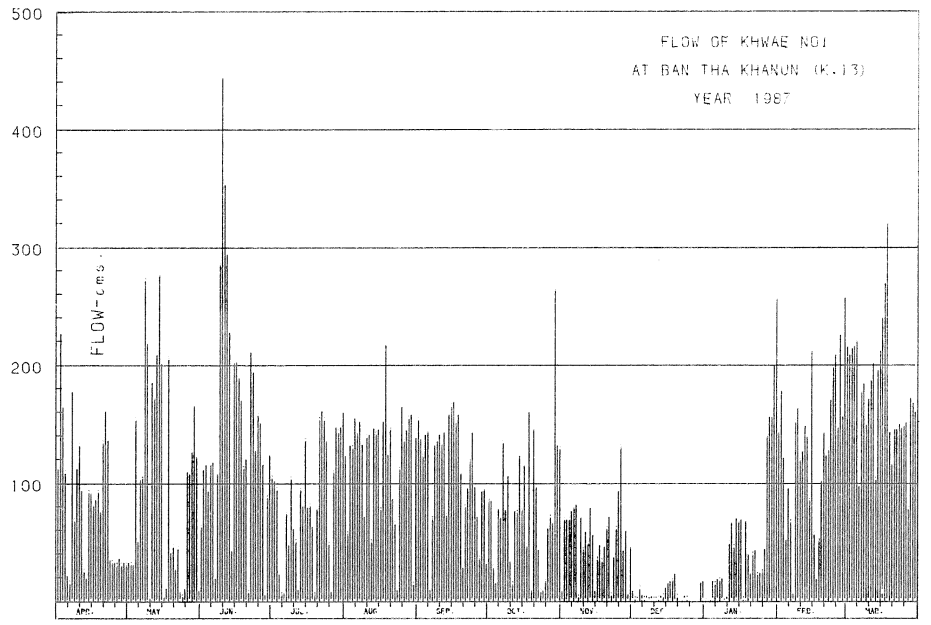
KHWAE NOI RIVER AT BAN THA KHANUN, KANCHANABURI (K.13)

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	+73.641 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE OBSERVER'S HOUSE.
ELEVATION	+97.165 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 - 1971, 1979, 1985 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 - 1971, 1979, 1985 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	76.88	75.84	76.30	76.82	77.00	77.36	76.57	75.35	75.36	75.21	77.22	77.91	
2	78.00	75.85	76.87	76.76	76.22	77.16	76.55	76.38	75.25	75.20	77.59	77.83	
3	77.44	75.81	76.95	76.70	77.10	77.02	75.81	76.35	75.24	75.24	76.98	77.90	
4	76.87	77.36	76.65	75.68	77.10	77.20	75.53	76.38	75.49	75.58	76.15	77.89	
5	75.66	76.09	76.95	75.34	77.35	77.26	76.49	76.44	75.28	75.57	76.68	77.95	
6	75.59	76.80	76.94	75.31	77.24	75.38	76.37	76.51	75.26	75.61	76.35	76.70	
7	77.56	76.81	75.67	76.44	77.32	76.39	77.15	76.51	75.27	75.63	75.30	77.58	
8	76.37	78.36	76.83	76.05	77.14	77.10	76.45	75.29	75.23	75.62	77.34	77.62	
9	76.88	77.91	78.45	76.81	76.38	77.17	76.84	76.37	75.25	75.20	77.43	77.32	
10	77.13	75.27	79.43	76.25	77.20	77.20	75.85	76.02	75.24	75.24	76.98	77.50	
11	76.66	77.63	78.91	76.12	77.20	77.14	75.57	76.21	75.24	76.11	77.04	77.67	
12	75.76	77.53	78.50	75.39	76.12	77.22	76.44	76.10	75.26	76.32	77.31	77.77	
13	75.62	77.83	78.01	76.69	77.26	76.42	76.45	76.47	75.26	76.06	77.18	76.80	
14	76.67	78.39	75.98	76.49	77.23	77.38	77.00	76.22	75.31	76.36	76.58	77.72	
15	76.63	77.77	77.79	77.17	77.25	77.47	76.48	75.36	75.43	76.36	77.86	77.88	
16	76.53	75.28	77.78	76.48	76.48	77.48	76.91	75.91	75.59	76.35	76.21	78.09	
17	76.56	75.42	77.69	76.52	77.32	77.33	76.07	76.05	75.57	75.25	75.61	78.34	
18	76.67	77.82	77.49	76.27	77.92	77.38	77.40	75.89	75.62	76.33	76.13	78.68	
19	76.43	75.96	76.91	75.34	77.01	76.86	75.43	76.03	75.69	75.97	76.76	77.25	
20	77.15	76.07	76.97	76.46	77.27	75.77	77.25	76.28	75.30	75.69	77.25	76.92	
21	77.41	75.75	75.39	77.36	76.57	76.51	76.72	76.38	75.19	75.97	77.00	77.28	
22	77.18	76.04	77.85	77.41	76.33	76.68	75.99	75.33	75.23	75.99	77.08	77.25	
23	75.87	75.34	77.73	77.36	75.38	76.97	75.41	75.90	75.26	75.71	77.49	77.33	
24	75.87	75.30	77.05	77.14	76.90	77.22	75.37	76.28	75.26	75.70	77.76	77.26	
25	75.84	75.41	77.40	76.09	77.44	76.73	75.62	76.65	75.21	75.75	77.83	77.31	
26	75.84	76.88	77.31	75.34	77.16	76.38	76.25	77.11	75.19	76.00	77.29	77.31	
27	75.89	76.83	76.95	76.87	77.24	75.92	76.40	75.98	75.19	77.22	77.97	76.49	
28	75.84	77.07	75.28	77.27	77.37	76.65	76.31	76.26	75.19	77.36	77.39	77.51	
29	75.84	77.45	76.61	77.25	77.38	76.70	78.30	75.29	75.20	77.39	78.23	77.50	
30	75.84	77.02	77.01	77.27	75.56	75.82	77.10	76.06	75.61	77.75		77.40	
31		75.37		77.42	77.17		77.09		75.57	78.25		77.36	
MEAN	76.48	76.59	77.19	76.51	76.96	76.84	76.42	76.11	75.33	76.06	77.03	77.53	
MAX	78.00	78.39	79.43	77.42	77.92	77.48	78.30	77.11	75.69	78.25	78.23	78.68	79.43
MIN	75.59	75.27	75.28	75.31	75.38	75.38	75.37	75.29	75.19	75.20	75.30	76.49	75.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 80.79 M (MSL), AT 18.00 HOURS, ON JUN 22, 1987
ZERO GAGE AT BOTTOM ELEVATION 73.64 M (MSL), RIVER BED 73.93 M (MSL)
LEFT BANK ELEVATION 95.56 M (MSL)
RIGHT BANK ELEVATION 96.89 M (MSL), DRAINAGE AREA 4047 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	112.20	32.80	65.00	106.80	123.00	156.00	86.60	8.00	8.40	2.40	142.80	218.20	
2	229.00	33.50	111.30	101.80	59.40	137.40	85.00	71.40	4.00	2.00	180.90	208.60	
3	164.40	30.70	118.50	97.00	132.00	124.80	30.70	69.00	3.60	3.60	121.20	217.00	
4	111.30	156.00	93.00	22.80	132.00	141.00	15.20	71.40	13.60	17.20	54.50	215.80	
5	21.60	50.30	118.50	7.60	155.00	146.40	80.20	76.20	5.20	16.80	95.40	223.00	
6	17.60	105.00	117.60	6.40	144.60	9.20	70.60	81.80	4.40	18.60	69.00	97.00	
7	177.60	105.90	22.20	76.20	152.00	72.20	136.50	81.80	4.80	19.80	6.00	179.80	
8	70.60	274.40	107.70	47.50	135.60	132.00	77.00	5.60	3.20	19.20	154.00	184.20	
9	112.20	218.20	287.00	105.90	71.40	138.30	108.60	70.60	4.00	2.00	163.30	152.00	
10	134.70	4.80	443.70	61.50	141.00	141.00	33.50	45.40	3.60	3.60	121.20	171.00	
11	93.80	185.30	355.60	52.40	141.00	135.60	16.80	58.70	3.60	51.70	126.60	189.70	
12	27.60	174.30	294.00	9.60	52.40	142.80	76.20	51.00	4.40	66.60	151.00	201.40	
13	19.20	208.60	230.20	96.20	146.40	74.60	77.00	78.60	4.40	48.20	139.20	105.00	
14	94.60	278.60	42.60	80.20	143.70	158.00	123.00	59.40	6.40	69.80	87.40	195.40	
15	91.40	201.40	203.80	138.30	145.50	167.70	79.40	8.40	11.20	69.80	212.20	214.60	
16	83.40	5.20	202.60	79.40	79.40	168.80	114.90	37.70	17.60	69.00	58.70	239.80	
17	85.80	10.80	191.90	82.60	152.00	153.00	48.90	47.50	16.80	4.00	18.60	271.60	
18	94.60	207.40	169.90	62.90	219.40	158.00	160.00	36.30	19.20	67.40	53.10	320.00	
19	75.40	41.20	114.90	7.60	123.90	110.40	11.20	46.10	23.40	41.90	101.80	145.50	
20	136.50	48.90	120.30	77.80	147.30	28.20	145.50	63.60	6.00	23.40	145.50	115.80	
21	161.10	27.00	9.60	156.00	86.60	81.80	98.60	71.40	1.80	41.90	123.00	148.20	
22	139.20	46.80	211.00	161.10	67.40	95.40	43.30	7.20	3.20	43.30	130.20	145.50	
23	34.90	7.60	196.60	156.00	9.20	120.30	10.40	37.00	4.40	24.60	169.90	153.00	
24	34.90	6.00	127.50	135.60	114.00	142.80	8.80	63.60	4.40	24.00	200.20	146.40	
25	32.80	10.40	160.00	50.30	164.40	99.40	19.20	93.00	2.40	27.00	208.60	151.00	
26	32.80	112.20	151.00	7.60	137.40	71.40	61.50	132.90	1.80	44.00	149.10	151.00	
27	36.30	107.70	118.50	111.30	144.60	38.40	73.00	42.60	1.80	142.80	225.40	80.20	
28	32.80	129.30	5.20	147.30	157.00	93.00	65.80	62.20	1.80	156.00	159.00	172.10	
29	32.80	165.50	89.80	145.50	158.00	97.00	266.00	5.60	2.00	159.00	256.90	171.00	
30	32.80	124.80	123.90	147.30	16.40	31.40	132.00	48.20	18.60	199.00		160.00	
31		8.80		162.20	138.30		131.10		16.80	259.50		156.00	
TOTAL	2523.90	3119.40	4603.40	2700.70	3790.30	3366.30	2486.50	1632.20	226.80	1738.10	3824.70	5499.80	35512.10 CMSDAY
MEAN	84.13	100.63	153.45	87.12	122.27	112.21	80.21	54.41	7.32	56.07	131.89	177.41	97.03 CMS
MAX	229.00	278.60	443.70	162.20	219.40	168.80	266.00	132.90	23.40	259.50	256.90	320.00	443.70 CMS
MIN	17.60	4.80	5.20	6.40	9.20	9.20	8.80	5.60	1.80	2.00	6.00	80.20	1.80 CMS
RUNOFF	218.065	269.516	397.734	233.340	327.482	290.848	214.834	141.022	19.596	150.172	330.454	475.183	3068.245 MCM

MOMENTARY PEAK 731.70 CMS, AT 80.79 M (MSL), AT 18.00 HOURS, ON JUN 22, 1987
RUNOFF YIELD 23.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 180.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

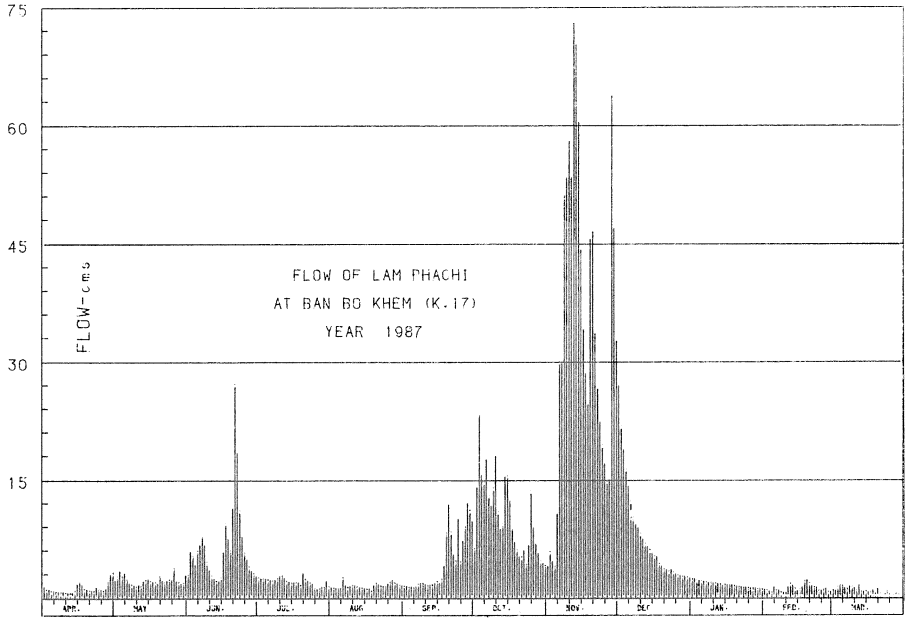
LAM PHACHI AT BAN BO KHEM, RATCHABURI (K.17)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG THE MEASURING LINE.
ELEVATION	+11.799 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 131 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.33	0.42	0.38	0.22	0.25	0.71	0.53	1.78	0.36	0.18	0.17	
2	0.19	0.40	0.68	0.36	0.22	0.24	1.19	0.68	1.57	0.36	0.18	0.16	
3	0.18	0.47	0.64	0.36	0.21	0.23	1.64	0.58	1.43	0.34	0.14	0.23	
4	0.16	0.40	0.54	0.36	0.21	0.23	1.27	0.53	1.31	0.33	0.13	0.26	
5	0.15	0.44	0.69	0.35	0.21	0.22	1.23	1.00	1.20	0.33	0.22	0.25	
6	0.14	0.35	0.74	0.34	0.39	0.23	1.37	1.90	1.10	0.32	0.17	0.21	
7	0.13	0.29	0.84	0.33	0.25	0.28	1.14	1.90	1.01	0.31	0.16	0.20	
8	0.13	0.27	0.74	0.34	0.23	0.29	1.06	2.58	0.94	0.30	0.13	0.23	
9	0.13	0.25	0.58	0.37	0.24	0.29	1.19	2.63	0.89	0.30	0.11	0.24	
10	0.12	0.24	0.48	0.40	0.26	0.27	1.39	2.76	0.85	0.29	0.11	0.21	
11	0.11	0.26	0.41	0.41	0.25	0.26	1.02	2.63	0.80	0.29	0.22	0.16	
12	0.11	0.25	0.36	0.37	0.24	0.26	0.88	3.09	0.76	0.28	0.29	0.25	
13	0.11	0.32	0.33	0.33	0.22	0.27	0.92	3.03	0.73	0.28	0.25	0.15	
14	0.16	0.34	0.32	0.31	0.22	0.29	1.26	2.82	0.70	0.25	0.21	0.13	
15	0.27	0.35	0.38	0.30	0.21	0.32	1.27	2.37	0.66	0.27	0.19	0.15	
16	0.35	0.33	0.67	0.30	0.20	0.29	1.10	2.06	0.64	0.26	0.21	0.12	
17	0.26	0.31	0.93	0.30	0.20	0.36	0.90	1.84	0.63	0.26	0.22	0.13	
18	0.20	0.31	0.80	0.30	0.16	0.53	0.77	1.70	0.56	0.26	0.33	0.16	
19	0.18	0.28	0.69	0.26	0.25	0.85	0.70	2.41	0.53	0.25	0.34	0.09	
20	0.17	0.41	1.04	0.44	0.30	1.07	0.63	2.45	0.50	0.24	0.29	0.19	
21	0.16	0.33	1.79	0.36	0.27	0.86	0.63	2.03	0.49	0.24	0.24	0.10	
22	0.16	0.31	1.41	0.33	0.25	0.65	0.69	1.78	0.47	0.23	0.23	0.06	
23	0.22	0.33	1.03	0.30	0.24	0.59	0.55	1.59	0.49	0.22	0.22	0.07	
24	0.20	0.35	0.82	0.28	0.24	0.96	0.74	1.46	0.46	0.22	0.16	0.14	
25	0.18	0.34	0.67	0.22	0.28	0.58	1.17	1.34	0.43	0.22	0.16	0.08	
26	0.17	0.51	0.60	0.18	0.31	0.78	0.89	1.23	0.42	0.21	0.18	0.06	
27	0.19	0.32	0.53	0.21	0.34	0.90	0.78	1.24	0.41	0.21	0.20	0.04	
28	0.32	0.31	0.47	0.23	0.30	1.08	0.66	2.90	0.40	0.21	0.14	0.09	
29	0.42	0.28	0.44	0.23	0.28	1.03	0.59	2.45	0.40	0.20	0.13	0.06	
30	0.45	0.30	0.40	0.32	0.26	0.94	0.56	2.01	0.39	0.20		0.03	
31		0.41		0.24	0.25		0.54		0.37	0.19		0.02	
MEAN	0.20	0.34	0.68	0.32	0.25	0.51	0.95	1.92	0.75	0.27	0.20	0.14	
MAX	0.45	0.51	1.79	0.44	0.39	1.08	1.64	3.09	1.78	0.36	0.34	0.26	3.09
MIN	0.11	0.24	0.32	0.18	0.16	0.22	0.54	0.53	0.37	0.19	0.11	0.02	0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.63 M (A.D), AT 17.00 HOURS, ON NOV 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.21 M (A.D)
LEFT BANK ELEVATION 11.69 M (A.D)
RIGHT BANK ELEVATION 6.53 M (A.D), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.44	2.24	2.99	2.64	1.36	1.60	6.33	4.09	27.00	2.48	1.08	1.02	
2	1.14	2.80	5.94	2.48	1.36	1.52	14.07	5.94	21.91	2.48	1.08	0.96	
3	1.08	3.47	5.42	2.48	1.28	1.44	23.56	4.67	18.86	2.32	0.84	1.44	
4	0.96	2.80	4.21	2.48	1.28	1.44	15.65	4.09	16.45	2.24	0.78	1.68	
5	0.90	3.18	6.07	2.40	1.28	1.36	14.85	10.70	14.25	2.24	1.36	1.60	
6	0.84	2.40	6.72	2.32	2.72	1.44	17.65	30.10	12.40	2.16	1.02	1.28	
7	0.78	1.92	8.14	2.24	1.60	1.84	13.14	30.10	10.87	2.08	0.96	1.20	
8	0.78	1.76	6.72	2.32	1.44	1.92	11.72	51.54	9.74	2.00	0.78	1.44	
9	0.78	1.60	4.67	2.56	1.52	1.92	14.07	53.41	8.94	2.00	0.66	1.52	
10	0.72	1.52	3.56	2.80	1.68	1.76	18.05	58.44	8.30	1.92	0.66	1.28	
11	0.66	1.68	2.90	2.90	1.60	1.68	11.04	53.41	7.50	1.92	1.36	0.96	
12	0.66	1.60	2.48	2.56	1.52	1.68	8.78	73.39	6.98	1.84	1.92	1.60	
13	0.66	2.16	2.24	2.24	1.36	1.76	9.42	70.33	6.59	1.84	1.60	0.90	
14	0.96	2.32	2.16	2.08	1.36	1.92	15.45	60.84	6.20	1.60	1.28	0.78	
15	1.76	2.40	2.64	2.00	1.28	2.16	15.65	44.27	5.68	1.76	1.14	0.90	
16	2.40	2.24	5.81	2.00	1.20	1.92	12.40	34.52	5.42	1.68	1.28	0.72	
17	1.68	2.08	9.58	2.00	1.20	2.48	9.10	28.54	5.29	1.68	1.36	0.78	
18	1.20	2.08	7.50	2.00	0.96	4.09	7.11	25.00	4.44	1.68	2.24	0.96	
19	1.08	1.84	6.07	1.68	1.60	8.30	6.20	45.60	4.09	1.60	2.32	0.56	
20	1.02	2.90	11.38	3.18	2.00	11.89	5.29	46.98	3.75	1.52	1.92	1.14	
21	0.96	2.24	27.25	2.48	1.76	8.46	5.29	33.64	3.66	1.52	1.52	0.60	
22	0.96	2.08	18.45	2.24	1.60	5.55	6.07	27.00	3.47	1.44	1.44	0.44	
23	1.36	2.24	11.21	2.00	1.52	4.78	4.33	22.37	3.66	1.36	1.36	0.48	
24	1.20	2.40	7.82	1.84	1.52	10.06	6.72	19.48	3.37	1.36	0.96	0.84	
25	1.08	2.32	5.81	1.36	1.84	4.67	13.69	17.05	3.09	1.36	0.96	0.52	
26	1.02	3.86	4.90	1.08	2.08	7.24	8.94	14.85	2.99	1.28	1.08	0.44	
27	1.14	2.16	4.09	1.28	2.32	9.10	7.24	15.05	2.90	1.28	1.20	0.36	
28	2.16	2.08	3.47	1.44	2.00	12.06	5.68	64.20	2.80	1.28	0.84	0.56	
29	2.99	1.84	3.18	1.44	1.84	11.21	4.78	46.98	2.80	1.20	0.78	0.44	
30	3.27	2.00	2.80	2.16	1.68	9.74	4.44	33.05	2.72	1.20		0.32	
31		2.90		1.52	1.60		4.21		2.56	1.14		0.28	
TOTAL	37.64	71.11	196.18	66.20	49.36	136.99	320.92	1029.63	238.68	53.46	35.78	28.00	2263.95 CMSDAY
MEAN	1.25	2.29	6.54	2.14	1.59	4.57	10.35	34.32	7.70	1.72	1.23	0.90	6.19 CMS
MAX	3.27	3.86	27.25	3.18	2.72	12.06	23.56	73.39	27.00	2.48	2.32	1.68	73.39 CMS
MIN	0.66	1.52	2.16	1.08	0.96	1.36	4.21	4.09	2.56	1.14	0.66	0.28	0.28 CMS
RUNOFF	3.252	6.144	16.950	5.720	4.265	11.836	27.727	88.960	20.622	4.619	3.091	2.419	195.605 MCM

MOMENTARY PEAK 107.50 CMS, AT 3.63 M (A.D), AT 17.00 HOURS, ON NOV 28, 1987

RUNOFF YIELD 4.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 79.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

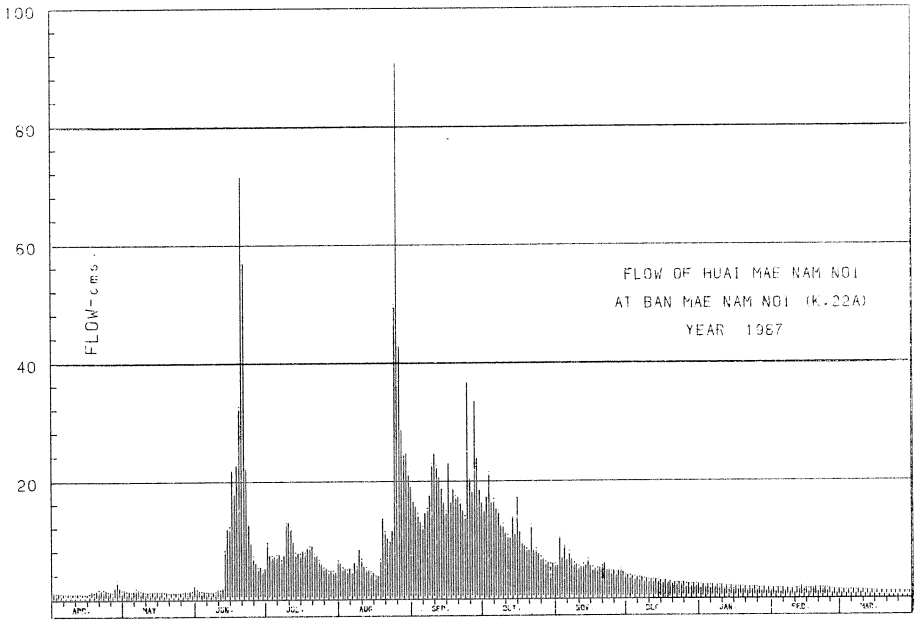
HUAI MAE NAM NOI AT BAN MAE NAM NOI, KANCHANABURI (K.22A)

LOCATION	LAT. 14°-26'-44" N., LONG. 98°-48'-08" E., ON LEFT BANK ABOUT 2 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	+66.70 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE METEOROLOGICAL STATION.
ELEVATION	+76.874 M. (M.S.L.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 76 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	67.25	67.31	67.32	67.78	67.60	68.12	68.05	67.57	67.48	67.39	67.32	67.29	
2	67.25	67.29	67.29	67.67	67.56	68.06	68.13	67.84	67.48	67.38	67.32	67.28	
3	67.25	67.28	67.29	67.67	67.55	68.01	68.30	67.64	67.47	67.38	67.32	67.28	
4	67.24	67.27	67.28	67.66	67.54	67.94	68.09	67.75	67.47	67.38	67.32	67.28	
5	67.23	67.28	67.27	67.68	67.55	67.91	68.12	67.62	67.46	67.38	67.32	67.28	
6	67.23	67.34	67.26	67.68	67.54	68.01	68.04	67.71	67.46	67.38	67.32	67.28	
7	67.23	67.31	67.26	67.63	67.60	68.05	68.03	67.63	67.46	67.38	67.31	67.28	
8	67.23	67.29	67.26	67.67	67.57	68.14	67.91	67.60	67.45	67.37	67.30	67.28	
9	67.23	67.28	67.28	67.94	67.72	68.35	67.93	67.58	67.45	67.37	67.30	67.30	
10	67.23	67.27	67.31	67.94	67.64	68.41	67.85	67.57	67.44	67.37	67.31	67.28	
11	67.23	67.26	67.31	67.91	67.57	68.34	67.84	67.56	67.44	67.36	67.32	67.28	
12	67.23	67.27	67.33	67.78	67.56	68.26	67.81	67.59	67.44	67.36	67.33	67.27	
13	67.22	67.27	67.72	67.70	67.53	68.21	68.00	67.57	67.44	67.36	67.35	67.27	
14	67.22	67.27	67.89	67.69	67.52	68.09	67.84	67.64	67.44	67.36	67.36	67.27	
15	67.22	67.28	67.91	67.69	67.51	68.03	68.15	67.57	67.43	67.35	67.32	67.27	
16	67.24	67.27	68.31	67.71	67.48	68.35	67.86	67.56	67.43	67.35	67.31	67.26	
17	67.28	67.28	68.17	67.70	67.48	68.11	67.79	67.54	67.43	67.35	67.32	67.26	
18	67.26	67.27	68.34	67.73	67.64	68.18	67.75	67.55	67.43	67.35	67.36	67.26	
19	67.29	67.26	68.69	67.75	67.97	68.14	67.73	67.55	67.42	67.35	67.33	67.26	
20	67.32	67.25	69.88	67.75	67.87	68.13	67.71	67.57	67.42	67.34	67.33	67.25	
21	67.30	67.25	69.48	67.69	67.81	68.11	67.92	67.59	67.41	67.34	67.33	67.25	
22	67.32	67.25	68.32	67.67	67.78	68.03	67.71	67.55	67.41	67.34	67.33	67.25	
23	67.30	67.25	67.95	67.63	67.87	67.99	67.73	67.53	67.41	67.34	67.33	67.25	
24	67.29	67.25	67.77	67.59	69.25	68.82	67.68	67.52	67.41	67.34	67.32	67.25	
25	67.27	67.25	67.67	67.56	70.38	68.25	67.66	67.52	67.41	67.34	67.31	67.25	
26	67.26	67.26	67.60	67.55	69.04	68.16	67.63	67.51	67.40	67.33	67.30	67.25	
27	67.34	67.28	67.56	67.53	68.55	68.73	67.61	67.52	67.40	67.33	67.29	67.24	
28	67.45	67.26	67.56	67.53	68.42	68.38	67.60	67.55	67.40	67.33	67.29	67.24	
29	67.34	67.28	67.54	67.53	68.41	68.20	67.59	67.51	67.40	67.33	67.29	67.24	
30	67.31	67.29	67.55	67.51	68.30	68.09	67.59	67.49	67.40	67.32		67.24	
31		67.37		67.63	68.20		67.59		67.39	67.32		67.24	
MEAN	67.27	67.28	67.78	67.68	67.94	68.19	67.85	67.58	67.43	67.35	67.32	67.26	
MAX	67.45	67.37	69.88	67.94	70.38	68.82	68.30	67.84	67.48	67.39	67.36	67.30	70.38
MIN	67.22	67.25	67.26	67.51	67.48	67.91	67.59	67.49	67.39	67.32	67.29	67.24	67.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 70.68 M (MSL), AT 21.00 HOURS, ON JUN 20, 1987
ZERO GAGE AT BOTTOM ELEVATION 66.70 M (MSL), RIVER BED 66.43 M (MSL)
LEFT BANK ELEVATION 71.44 M (MSL)
RIGHT BANK ELEVATION 70.67 M (MSL), DRAINAGE AREA 321 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.10	1.60	1.70	9.58	6.10	17.00	15.40	5.56	3.94	2.40	1.70	1.42	
2	1.10	1.42	1.42	7.36	5.38	15.62	17.25	10.84	3.94	2.30	1.70	1.34	
3	1.10	1.34	1.42	7.36	5.20	14.52	21.50	6.82	3.76	2.30	1.70	1.34	
4	1.02	1.26	1.34	7.18	5.02	12.98	16.28	8.95	3.76	2.30	1.70	1.34	
5	0.94	1.34	1.26	7.54	5.20	12.32	17.00	6.46	3.58	2.30	1.70	1.34	
6	0.94	1.90	1.18	7.54	5.02	14.52	15.18	8.11	3.58	2.30	1.70	1.34	
7	0.94	1.60	1.18	6.64	6.10	15.40	14.96	6.64	3.58	2.30	1.60	1.34	
8	0.94	1.42	1.18	7.36	5.56	17.50	12.32	6.10	3.40	2.20	1.50	1.34	
9	0.94	1.34	1.34	12.98	8.32	22.90	12.76	5.74	3.40	2.20	1.50	1.50	
10	0.94	1.26	1.60	12.98	6.82	24.58	11.05	5.56	3.22	2.20	1.60	1.34	
11	0.94	1.18	1.60	12.32	5.56	22.62	10.84	5.38	3.22	2.10	1.70	1.34	
12	0.94	1.26	1.80	9.58	5.38	20.50	10.21	5.92	3.22	2.10	1.80	1.26	
13	0.86	1.26	8.32	7.90	4.84	19.25	14.30	5.56	3.22	2.10	2.00	1.26	
14	0.86	1.26	11.89	7.72	4.66	16.28	10.84	6.82	3.22	2.10	2.10	1.26	
15	0.86	1.34	12.32	7.72	4.48	14.96	17.75	5.56	3.04	2.00	1.70	1.26	
16	1.02	1.26	21.78	8.11	3.94	22.90	11.26	5.38	3.04	2.00	1.60	1.18	
17	1.34	1.34	18.25	7.90	3.94	16.75	9.79	5.02	3.04	2.00	1.70	1.18	
18	1.18	1.26	22.62	8.53	6.82	18.50	8.95	5.20	3.04	2.00	2.10	1.18	
19	1.42	1.18	32.70	8.95	13.64	17.50	8.53	5.20	2.86	2.00	1.80	1.18	
20	1.70	1.10	71.46	8.95	11.47	17.25	8.11	5.56	2.86	1.90	1.80	1.10	
21	1.50	1.10	57.44	7.72	10.21	16.75	12.54	5.92	2.68	1.90	1.80	1.10	
22	1.70	1.10	22.06	7.36	9.58	14.96	8.11	5.20	2.68	1.90	1.80	1.10	
23	1.50	1.10	13.20	6.64	11.47	14.08	8.53	4.84	2.68	1.90	1.80	1.10	
24	1.42	1.10	9.37	5.92	49.85	36.60	7.54	4.66	2.68	1.90	1.70	1.10	
25	1.26	1.10	7.36	5.38	90.70	20.25	7.18	4.66	2.68	1.90	1.60	1.10	
26	1.18	1.18	6.10	5.20	43.20	18.00	6.64	4.48	2.50	1.80	1.50	1.10	
27	1.90	1.34	5.38	4.84	28.55	33.90	6.28	4.66	2.50	1.80	1.42	1.02	
28	3.40	1.18	5.38	4.84	24.86	23.74	6.10	5.20	2.50	1.80	1.42	1.02	
29	1.90	1.34	5.02	4.84	24.58	19.00	5.92	4.48	2.50	1.80	1.42	1.02	
30	1.60	1.42	5.20	4.48	21.50	16.28	5.92	4.12	2.50	1.70		1.02	
31		2.20		6.64	19.00		5.92		2.40	1.70		1.02	
TOTAL	38.44	41.08	352.87	238.06	456.95	567.41	344.96	174.60	95.22	63.20	49.16	37.54	2459.49 CMSDAY
MEAN	1.28	1.33	11.76	7.68	14.74	18.91	11.13	5.82	3.07	2.04	1.70	1.21	6.72 CMS
MAX	3.40	2.20	71.46	12.98	90.70	36.60	21.50	10.84	3.94	2.40	2.10	1.50	90.70 CMS
MIN	0.86	1.10	1.18	4.48	3.94	12.32	5.92	4.12	2.40	1.70	1.42	1.02	0.86 CMS
RUNOFF	3.321	3.549	30.488	20.568	39.480	49.024	29.805	15.085	8.227	5.460	4.247	3.243	212.500 MCM

MOMENTARY PEAK 102.86 CMS, AT 70.68 M (MSL), AT 21.00 HOURS, ON JUN 20, 1987

RUNOFF YIELD 20.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 320.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

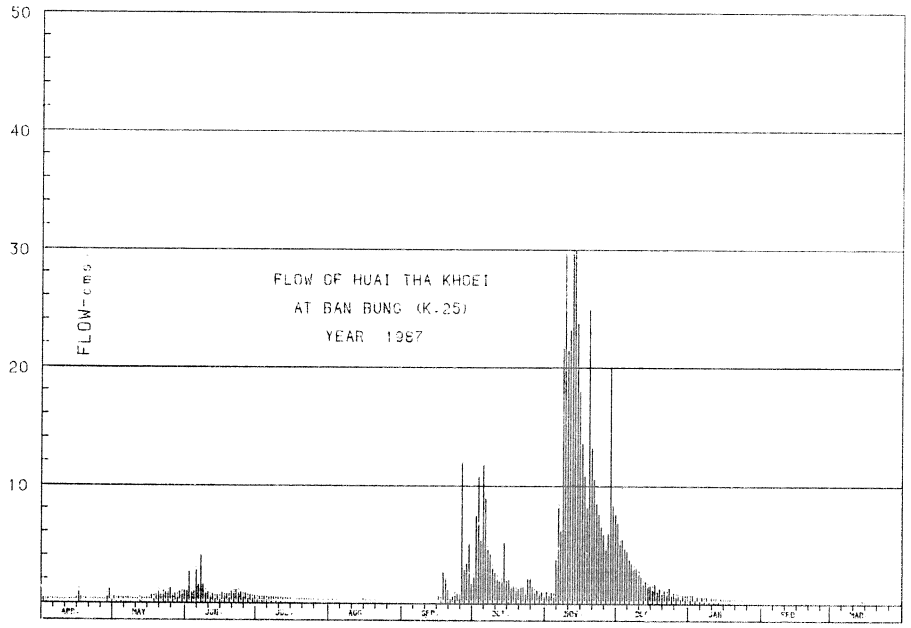
HUAI THA KHAEI AT BAN BUNG, RATCHABURI (K.25)

LOCATION	LAT. 13°-25'-42" N., LONG. 99°-24'-25" E., ON LEFT BANK AT BAN BUNG, TAMBON SUAN PHUNG, AMPHOE SUAN PHUNG, RATCHABURI.
DRAINAGE AREA	508 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.00 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 - 1970, 1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 111 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.49	1.54	1.76	1.56	1.45	1.43	1.96	1.67	2.45	1.60	1.43	1.39	
2	1.48	1.52	1.97	1.55	1.45	1.43	2.51	1.68	2.30	1.59	1.42	1.39	
3	1.48	1.52	1.72	1.55	1.45	1.43	2.81	1.65	2.31	1.57	1.42	1.38	
4	1.48	1.52	1.66	1.55	1.44	1.42	2.30	1.64	2.26	1.55	1.41	1.40	
5	1.48	1.51	2.03	1.54	1.44	1.42	2.88	2.11	2.20	1.55	1.41	1.40	
6	1.48	1.51	1.80	1.53	1.43	1.42	2.64	2.60	2.15	1.55	1.41	1.40	
7	1.47	1.52	2.19	1.53	1.43	1.42	2.25	2.38	2.07	1.54	1.40	1.38	
8	1.46	1.51	1.81	1.53	1.43	1.43	2.17	3.50	2.05	1.54	1.40	1.38	
9	1.46	1.49	1.71	1.53	1.43	1.42	2.06	3.85	2.02	1.53	1.39	1.38	
10	1.46	1.49	1.65	1.52	1.43	1.42	1.97	3.49	1.99	1.53	1.39	1.38	
11	1.46	1.49	1.63	1.52	1.44	1.42	1.94	3.56	1.92	1.52	1.40	1.38	
12	1.46	1.54	1.61	1.51	1.43	1.42	1.86	3.86	1.87	1.52	1.41	1.38	
13	1.46	1.50	1.59	1.51	1.43	1.43	1.90	3.86	1.86	1.53	1.41	1.38	
14	1.46	1.50	1.58	1.51	1.43	1.43	2.28	3.60	1.83	1.51	1.41	1.42	
15	1.51	1.51	1.58	1.50	1.49	1.47	1.92	3.27	1.80	1.50	1.40	1.40	
16	1.73	1.50	1.64	1.40	1.46	1.56	1.88	3.01	1.80	1.50	1.41	1.38	
17	1.52	1.58	1.62	1.49	1.44	1.53	1.82	2.79	1.82	1.49	1.40	1.38	
18	1.49	1.58	1.61	1.49	1.44	1.97	1.79	2.60	1.76	1.49	1.41	1.37	
19	1.49	1.59	1.61	1.49	1.45	1.94	1.76	3.64	1.74	1.48	1.42	1.36	
20	1.48	1.72	1.66	1.49	1.44	1.70	1.74	2.98	1.72	1.47	1.41	1.36	
21	1.48	1.58	1.71	1.48	1.44	1.60	1.83	2.77	1.70	1.47	1.41	1.36	
22	1.48	1.68	1.70	1.48	1.44	1.55	1.77	2.63	1.68	1.46	1.41	1.36	
23	1.48	1.64	1.71	1.47	1.44	1.67	1.71	2.52	1.75	1.46	1.41	1.35	
24	1.48	1.71	1.65	1.47	1.43	1.62	1.89	2.45	1.68	1.46	1.40	1.35	
25	1.47	1.73	1.63	1.47	1.44	1.61	1.94	2.35	1.65	1.45	1.40	1.35	
26	1.47	1.67	1.63	1.46	1.44	2.88	1.78	2.25	1.64	1.45	1.39	1.35	
27	1.47	1.62	1.60	1.45	1.44	2.04	1.73	2.36	1.63	1.45	1.40	1.35	
28	1.64	1.62	1.59	1.45	1.44	2.07	1.70	3.41	1.60	1.44	1.40	1.35	
29	1.71	1.66	1.58	1.45	1.44	2.30	1.68	2.59	1.60	1.44	1.39	1.34	
30	1.54	1.69	1.57	1.45	1.43	1.82	1.67	2.55	1.59	1.44		1.34	
31		1.68		1.45	1.43		1.65		1.59	1.43		1.33	
MEAN	1.50	1.58	1.69	1.50	1.44	1.64	1.99	2.79	1.87	1.50	1.41	1.37	
MAX	1.73	1.73	2.19	1.56	1.49	2.88	2.88	3.86	2.45	1.60	1.43	1.42	3.86
MIN	1.46	1.49	1.57	1.40	1.43	1.42	1.65	1.64	1.59	1.43	1.39	1.33	1.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.09 M (A.D), AT 15.00 HOURS, ON NOV 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.72 M (A.D)
LEFT BANK ELEVATION 7.23 M (A.D)
RIGHT BANK ELEVATION 7.26 M (A.D), DRAINAGE AREA 508 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.52	1.34	0.58	0.30	0.26	2.52	0.98	6.80	0.70	0.26	0.18	
2	0.36	0.46	2.59	0.55	0.30	0.26	7.41	1.02	5.30	0.67	0.24	0.18	
3	0.36	0.46	1.18	0.55	0.30	0.26	11.04	0.90	5.40	0.61	0.24	0.16	
4	0.36	0.46	0.94	0.55	0.28	0.24	5.30	0.86	4.94	0.55	0.22	0.20	
5	0.36	0.43	3.04	0.52	0.28	0.24	12.02	3.68	4.40	0.55	0.22	0.20	
6	0.36	0.43	1.50	0.49	0.26	0.24	8.88	8.40	4.00	0.55	0.22	0.20	
7	0.34	0.46	4.32	0.49	0.26	0.24	4.85	6.10	3.36	0.52	0.20	0.16	
8	0.32	0.43	1.56	0.49	0.26	0.26	4.16	21.90	3.20	0.52	0.20	0.16	
9	0.32	0.38	1.14	0.49	0.26	0.24	3.28	29.65	2.96	0.49	0.18	0.16	
10	0.32	0.38	0.90	0.46	0.26	0.24	2.59	21.72	2.73	0.49	0.18	0.16	
11	0.32	0.38	0.82	0.46	0.28	0.24	2.38	23.16	2.24	0.46	0.20	0.16	
12	0.32	0.52	0.74	0.43	0.26	0.24	1.86	29.90	1.92	0.46	0.22	0.16	
13	0.32	0.40	0.67	0.43	0.26	0.26	2.10	29.90	1.86	0.49	0.22	0.16	
14	0.32	0.40	0.64	0.43	0.26	0.26	5.12	24.00	1.68	0.43	0.22	0.24	
15	0.43	0.43	0.64	0.40	0.38	0.34	2.24	17.92	1.50	0.40	0.20	0.20	
16	1.22	0.40	0.86	0.20	0.32	0.58	1.98	13.85	1.50	0.40	0.22	0.16	
17	0.46	0.64	0.78	0.38	0.28	0.49	1.62	10.77	1.62	0.38	0.20	0.16	
18	0.38	0.64	0.74	0.38	0.28	2.59	1.46	8.40	1.34	0.38	0.22	0.14	
19	0.38	0.67	0.74	0.38	0.30	2.38	1.34	24.84	1.26	0.36	0.24	0.12	
20	0.36	1.18	0.94	0.38	0.28	1.10	1.26	13.42	1.18	0.34	0.22	0.12	
21	0.36	0.64	1.14	0.36	0.28	0.70	1.68	10.51	1.10	0.34	0.22	0.12	
22	0.36	1.02	1.10	0.36	0.28	0.55	1.38	8.76	1.02	0.32	0.22	0.12	
23	0.36	0.86	1.14	0.34	0.28	0.98	1.14	7.52	1.30	0.32	0.22	0.10	
24	0.36	1.14	0.90	0.34	0.26	0.78	2.04	6.80	1.02	0.32	0.20	0.10	
25	0.34	1.22	0.82	0.34	0.28	0.74	2.38	5.80	0.90	0.30	0.20	0.10	
26	0.34	0.98	0.82	0.32	0.28	12.02	1.42	4.85	0.86	0.30	0.18	0.10	
27	0.34	0.78	0.70	0.30	0.28	3.12	1.22	5.90	0.82	0.30	0.20	0.10	
28	0.86	0.78	0.67	0.30	0.28	3.36	1.10	20.28	0.70	0.28	0.20	0.10	
29	1.14	0.94	0.64	0.30	0.28	5.30	1.02	8.29	0.70	0.28	0.18	0.08	
30	0.52	1.06	0.61	0.30	0.26	1.62	0.98	7.85	0.67	0.28		0.08	
31		1.02		0.30	0.26		0.90		0.67	0.26		0.06	
TOTAL	12.97	20.51	34.62	12.60	8.68	40.13	98.67	377.93	68.95	13.05	6.14	4.44	698.69 CMSDAY
MEAN	0.43	0.66	1.15	0.41	0.28	1.34	3.18	12.60	2.22	0.42	0.21	0.14	1.91 CMS
MAX	1.22	1.22	4.32	0.58	0.38	12.02	12.02	29.90	6.80	0.70	0.26	0.24	29.90 CMS
MIN	0.32	0.38	0.61	0.20	0.26	0.24	0.90	0.86	0.67	0.26	0.18	0.06	0.06 CMS
RUNOFF	1.121	1.772	2.991	1.089	0.750	3.467	8.525	32.653	5.957	1.128	0.530	0.384	60.367 MCM

MOMENTARY PEAK 36.31 CMS, AT 4.09 M (A.D), AT 15.00 HOURS, ON NOV 19, 1987

RUNOFF YIELD 3.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 71.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

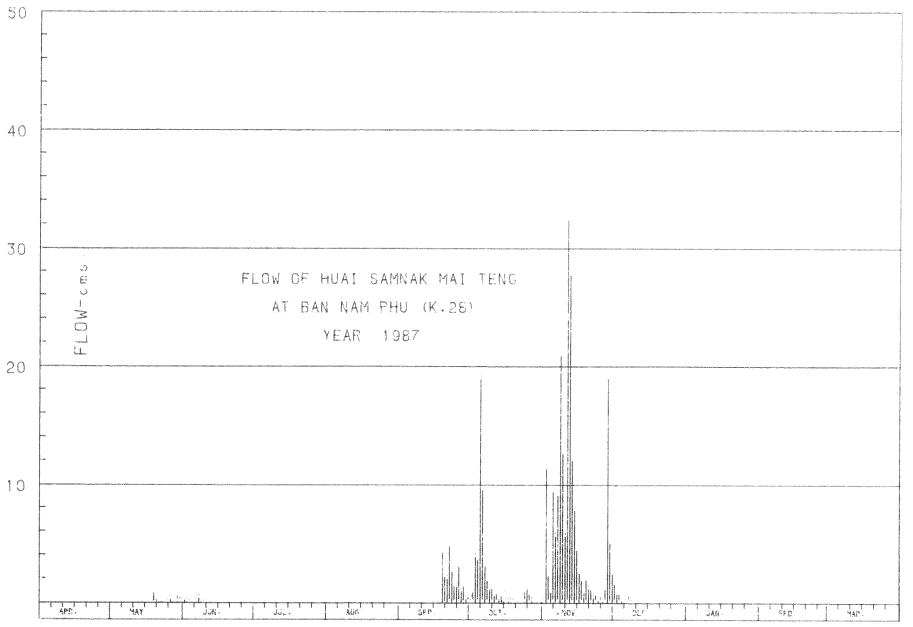
HUAI SAMNAK MAI TENG AT BAN NAM PHU, RATCHABURI (K.28)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
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	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 86 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.57	0.35	1.67	1.37	0.90	0.72	1.61	1.62	1.88	1.40	1.30	1.27	
2	0.57	0.34	1.61	1.34	0.89	0.71	1.75	2.67	1.78	1.39	1.29	1.25	
3	0.56	0.34	1.56	1.32	0.88	0.70	2.18	1.98	1.72	1.39	1.29	1.24	
4	0.55	0.64	1.52	1.29	0.86	0.68	2.13	1.82	1.64	1.38	1.29	1.22	
5	0.54	1.06	1.54	1.27	0.85	0.67	3.00	2.54	1.59	1.38	1.28	1.21	
6	0.53	0.94	1.61	1.24	0.83	0.68	2.55	2.32	1.58	1.37	1.27	1.20	
7	0.52	0.86	1.72	1.22	0.81	0.69	2.11	2.52	1.68	1.37	1.27	1.19	
8	0.50	0.82	1.59	1.21	0.80	0.68	1.93	3.07	1.59	1.36	1.25	1.18	
9	0.49	0.75	1.52	1.20	0.78	0.66	1.86	2.72	1.57	1.36	1.24	1.18	
10	0.47	0.70	1.48	1.18	0.77	0.65	1.81	2.32	1.56	1.35	1.24	1.17	
11	0.45	0.69	1.47	1.16	0.75	0.63	1.76	3.41	1.53	1.35	1.31	1.16	
12	0.44	0.70	1.46	1.14	0.80	0.62	1.72	3.29	1.53	1.34	1.31	1.15	
13	0.43	0.67	1.45	1.12	0.92	0.61	1.68	2.69	1.52	1.34	1.31	1.14	
14	0.42	0.66	1.44	1.10	0.87	0.60	1.66	2.46	1.51	1.34	1.31	1.13	
15	0.42	0.65	1.44	1.08	0.84	0.60	1.65	2.20	1.50	1.34	1.31	1.12	
16	0.41	0.64	1.46	1.08	0.81	0.82	1.62	2.04	1.49	1.33	1.30	1.11	
17	0.41	0.63	1.48	1.07	0.80	0.76	1.65	1.93	1.48	1.32	1.30	1.09	
18	0.39	0.69	1.47	1.06	0.78	0.77	1.63	1.80	1.47	1.32	1.32	1.08	
19	0.39	1.74	1.45	1.06	0.77	2.19	1.61	1.94	1.47	1.32	1.32	1.07	
20	0.38	1.55	1.45	1.04	0.76	1.97	1.59	1.87	1.45	1.31	1.32	1.07	
21	0.38	1.53	1.45	1.02	0.74	1.99	1.59	1.79	1.44	1.31	1.32	1.06	
22	0.37	1.63	1.46	1.01	0.73	2.23	1.58	1.72	1.44	1.31	1.32	1.05	
23	0.36	1.50	1.45	0.99	0.72	2.06	1.58	1.70	1.44	1.32	1.32	1.08	
24	0.36	1.47	1.43	0.96	0.72	1.85	1.76	1.67	1.43	1.32	1.31	1.10	
25	0.35	1.56	1.42	0.94	0.72	1.91	1.87	1.66	1.43	1.32	1.31	1.10	
26	0.34	1.68	1.41	0.96	0.71	2.07	1.72	1.64	1.43	1.32	1.30	1.10	
27	0.34	1.52	1.40	0.99	0.75	1.83	1.64	1.80	1.43	1.32	1.30	1.10	
28	0.33	1.57	1.39	0.99	0.80	1.85	1.59	3.00	1.42	1.32	1.30	1.13	
29	0.36	1.66	1.39	0.96	0.78	1.69	1.59	2.25	1.41	1.31	1.29	1.15	
30	0.35	1.63	1.38	0.93	0.76	1.65	1.58	2.03	1.40	1.31		1.17	
31		1.53		0.92	0.75		1.64		1.40	1.31		1.17	
MEAN	0.43	1.05	1.49	1.10	0.80	1.18	1.79	2.22	1.52	1.34	1.30	1.14	
MAX	0.57	1.74	1.72	1.37	0.92	2.23	3.00	3.41	1.88	1.40	1.32	1.27	3.41
MIN	0.33	0.34	1.38	0.92	0.71	0.60	1.58	1.62	1.40	1.31	1.24	1.05	0.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.21 M (A.D), AT 20.00 HOURS, ON OCT 5, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.06 M (A.D)
LEFT BANK ELEVATION 7.72 M (A.D)
RIGHT BANK ELEVATION 5.74 M (A.D), DRAINAGE AREA 183 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.51	0.04	0.00	0.00	0.33	0.36	1.50	0.05	0.01	0.01	
2	0.00	0.00	0.33	0.03	0.00	0.00	0.85	11.66	1.00	0.05	0.01	0.01	
3	0.00	0.00	0.24	0.02	0.00	0.00	4.18	2.24	0.70	0.05	0.01	0.00	
4	0.00	0.00	0.18	0.01	0.00	0.00	3.63	1.20	0.42	0.04	0.01	0.00	
5	0.00	0.00	0.21	0.01	0.00	0.00	19.20	9.38	0.29	0.04	0.01	0.00	
6	0.00	0.00	0.33	0.00	0.00	0.00	9.55	5.90	0.27	0.04	0.01	0.00	
7	0.00	0.00	0.70	0.00	0.00	0.00	3.41	9.04	0.54	0.04	0.01	0.00	
8	0.00	0.00	0.29	0.00	0.00	0.00	1.84	21.16	0.29	0.03	0.01	0.00	
9	0.00	0.00	0.18	0.00	0.00	0.00	1.40	12.64	0.26	0.03	0.00	0.00	
10	0.00	0.00	0.13	0.00	0.00	0.00	1.15	5.90	0.24	0.03	0.00	0.00	
11	0.00	0.00	0.12	0.00	0.00	0.00	0.90	32.38	0.19	0.03	0.01	0.00	
12	0.00	0.00	0.11	0.00	0.00	0.00	0.70	27.97	0.19	0.03	0.01	0.00	
13	0.00	0.00	0.10	0.00	0.00	0.00	0.54	12.02	0.18	0.03	0.01	0.00	
14	0.00	0.00	0.09	0.00	0.00	0.00	0.48	8.06	0.16	0.03	0.01	0.00	
15	0.00	0.00	0.09	0.00	0.00	0.00	0.45	4.40	0.15	0.03	0.01	0.00	
16	0.00	0.00	0.11	0.00	0.00	0.00	0.36	2.76	0.14	0.02	0.01	0.00	
17	0.00	0.00	0.13	0.00	0.00	0.00	0.45	1.84	0.13	0.02	0.01	0.00	
18	0.00	0.00	0.12	0.00	0.00	0.00	0.39	1.10	0.12	0.02	0.02	0.00	
19	0.00	0.80	0.10	0.00	0.00	4.29	0.33	1.92	0.12	0.02	0.02	0.00	
20	0.00	0.22	0.10	0.00	0.00	2.16	0.29	1.45	0.10	0.01	0.02	0.00	
21	0.00	0.19	0.10	0.00	0.00	2.32	0.29	1.05	0.09	0.01	0.02	0.00	
22	0.00	0.39	0.11	0.00	0.00	4.76	0.27	0.70	0.09	0.01	0.02	0.00	
23	0.00	0.15	0.10	0.00	0.00	2.94	0.27	0.60	0.09	0.02	0.02	0.00	
24	0.00	0.12	0.08	0.00	0.00	1.35	0.90	0.51	0.08	0.02	0.01	0.00	
25	0.00	0.24	0.07	0.00	0.00	1.68	1.45	0.48	0.08	0.02	0.01	0.00	
26	0.00	0.54	0.06	0.00	0.00	3.03	0.70	0.42	0.08	0.02	0.01	0.00	
27	0.00	0.18	0.05	0.00	0.00	1.25	0.42	1.10	0.08	0.02	0.01	0.00	
28	0.00	0.26	0.05	0.00	0.00	1.35	0.29	19.20	0.07	0.02	0.01	0.00	
29	0.00	0.48	0.05	0.00	0.00	0.57	0.29	5.00	0.06	0.01	0.01	0.00	
30	0.00	0.39	0.04	0.00	0.00	0.45	0.27	2.67	0.05	0.01		0.00	
31		0.19		0.00	0.00		0.42		0.05	0.01		0.00	
TOTAL	0.00	4.15	4.88	0.11	0.00	26.15	56.00	205.11	7.81	0.81	0.33	0.02	305.37 CMSDAY
MEAN	0.00	0.13	0.16	0.00	0.00	0.87	1.81	6.84	0.25	0.03	0.01	0.00	0.83 CMS
MAX	0.00	0.80	0.70	0.04	0.00	4.76	19.20	32.38	1.50	0.05	0.02	0.01	32.38 CMS
MIN	0.00	0.00	0.04	0.00	0.00	0.00	0.27	0.36	0.05	0.01	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.359	0.422	0.010	0.000	2.259	4.838	17.722	0.675	0.070	0.029	0.002	26.384 MCM

MOMENTARY PEAK 71.00 CMS, AT 4.21 M (A.D), AT 20.00 HOURS, ON OCT 5, 1987

RUNOFF YIELD 4.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 387.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

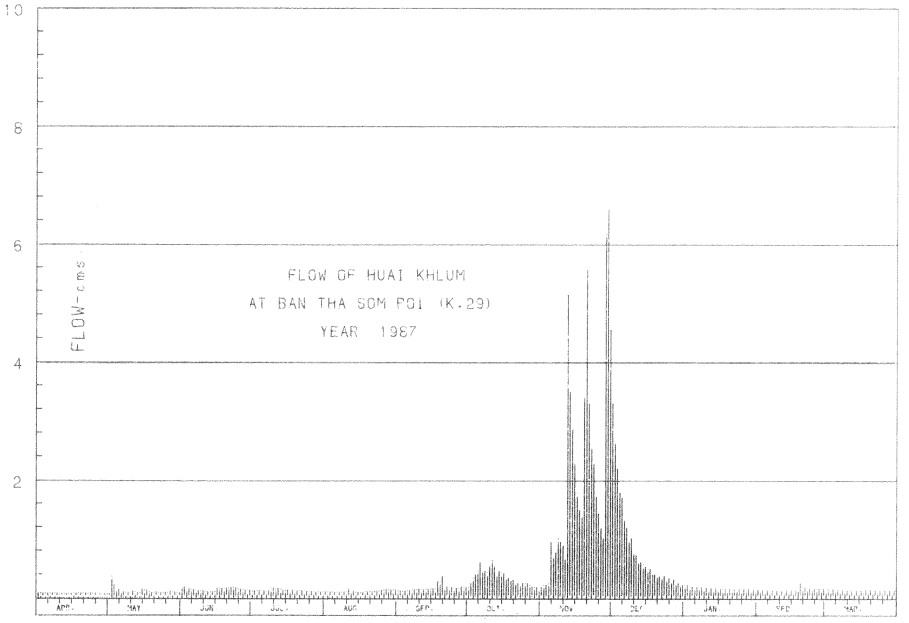
HUAI KHLUM AT BAN THA SOM POI, RATCHABURI (K.29)

LOCATION	LAT. 13°-34'-45" N., LONG. 99°-20'-19" E., ON RIGHT BANK AT BAN THA SOM POI, AMPHOE SUAN PHUNG, RATCHABURI.
DRAINAGE AREA	232 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+9.80 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	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR.STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.99	1.98	2.11	2.03	2.01	2.04	2.09	2.09	2.63	2.11	2.05	2.06	
2	1.99	2.16	2.09	2.03	2.01	2.03	2.12	2.11	2.56	2.11	2.05	2.06	
3	1.99	2.11	2.07	2.03	2.01	2.03	2.15	2.11	2.50	2.10	2.05	2.06	
4	1.99	2.07	2.06	2.03	2.01	2.03	2.17	2.12	2.45	2.10	2.04	2.06	
5	1.99	2.05	2.06	2.03	2.01	2.03	2.19	2.31	2.43	2.10	2.04	2.06	
6	1.99	2.03	2.05	2.03	2.01	2.04	2.23	2.26	2.38	2.10	2.04	2.05	
7	1.99	2.01	2.04	2.02	2.01	2.05	2.20	2.27	2.35	2.09	2.04	2.05	
8	1.99	2.00	2.03	2.03	2.01	2.06	2.19	2.32	2.32	2.09	2.03	2.05	
9	1.99	2.00	2.03	2.08	2.01	2.06	2.18	2.31	2.32	2.09	2.03	2.05	
10	1.98	2.00	2.03	2.08	2.02	2.06	2.21	2.31	2.28	2.08	2.03	2.04	
11	1.98	2.02	2.02	2.07	2.06	2.05	2.24	2.24	2.26	2.08	2.03	2.04	
12	1.98	2.01	2.02	2.07	2.04	2.05	2.21	2.80	2.24	2.08	2.03	2.03	
13	1.98	2.00	2.01	2.06	2.03	2.06	2.18	2.65	2.23	2.08	2.04	2.03	
14	1.98	2.00	2.01	2.04	2.01	2.06	2.19	2.59	2.22	2.08	2.04	2.04	
15	1.98	2.06	2.02	2.04	2.01	2.07	2.18	2.51	2.21	2.07	2.04	2.04	
16	2.00	2.05	2.07	2.04	2.00	2.07	2.18	2.44	2.20	2.07	2.04	2.04	
17	1.99	2.04	2.08	2.04	2.00	2.07	2.16	2.40	2.20	2.07	2.04	2.04	
18	1.99	2.02	2.07	2.04	2.02	2.13	2.15	2.39	2.19	2.07	2.09	2.05	
19	1.99	2.00	2.07	2.04	2.02	2.13	2.15	2.64	2.17	2.07	2.12	2.05	
20	1.99	2.00	2.08	2.03	2.02	2.16	2.14	2.83	2.17	2.07	2.10	2.05	
21	1.99	2.01	2.09	2.03	2.02	2.10	2.13	2.63	2.16	2.07	2.09	2.05	
22	1.99	2.00	2.09	2.03	2.02	2.10	2.12	2.55	2.16	2.07	2.08	2.04	
23	1.99	2.00	2.09	2.03	2.03	2.09	2.12	2.51	2.16	2.07	2.08	2.04	
24	1.99	2.00	2.08	2.02	2.03	2.09	2.12	2.44	2.15	2.06	2.08	2.04	
25	1.99	2.00	2.06	2.02	2.04	2.08	2.12	2.39	2.15	2.06	2.07	2.04	
26	1.98	2.00	2.06	2.02	2.05	2.08	2.12	2.36	2.14	2.06	2.07	2.04	
27	1.98	2.02	2.05	2.02	2.06	2.08	2.11	2.32	2.14	2.06	2.07	2.04	
28	1.98	2.01	2.04	2.01	2.06	2.10	2.10	2.87	2.13	2.06	2.07	2.04	
29	1.98	2.01	2.04	2.01	2.05	2.10	2.09	2.90	2.12	2.06	2.07	2.03	
30	1.98	2.00	2.04	2.01	2.05	2.09	2.09	2.75	2.12	2.05		2.03	
31		2.00		2.01	2.05		2.08		2.11	2.05		2.03	
MEAN	1.99	2.02	2.06	2.03	2.03	2.07	2.15	2.45	2.25	2.08	2.06	2.04	
MAX	2.00	2.16	2.11	2.08	2.06	2.16	2.24	2.90	2.63	2.11	2.12	2.06	2.90
MIN	1.98	1.98	2.01	2.01	2.00	2.03	2.08	2.09	2.11	2.05	2.03	2.03	1.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.28 M (A.D), AT 18.00 HOURS, ON NOV 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.87 M (A.D)
LEFT BANK ELEVATION 6.66 M (A.D)
RIGHT BANK ELEVATION 5.94 M (A.D), DRAINAGE AREA 232 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.08	0.23	0.13	0.11	0.14	0.19	0.19	3.30	0.23	0.15	0.16	
2	0.09	0.38	0.19	0.13	0.11	0.13	0.26	0.23	2.68	0.23	0.15	0.16	
3	0.09	0.23	0.17	0.13	0.11	0.13	0.35	0.23	2.20	0.20	0.15	0.16	
4	0.09	0.17	0.16	0.13	0.11	0.13	0.41	0.26	1.85	0.20	0.14	0.16	
5	0.09	0.15	0.16	0.13	0.11	0.13	0.47	0.96	1.71	0.20	0.14	0.16	
6	0.09	0.13	0.15	0.13	0.11	0.14	0.62	0.74	1.38	0.20	0.14	0.15	
7	0.09	0.11	0.14	0.12	0.11	0.15	0.50	0.78	1.20	0.19	0.14	0.15	
8	0.09	0.10	0.13	0.13	0.11	0.16	0.47	1.02	1.02	0.19	0.13	0.15	
9	0.09	0.10	0.13	0.18	0.11	0.16	0.44	0.96	1.02	0.19	0.13	0.15	
10	0.08	0.10	0.13	0.18	0.12	0.16	0.54	0.96	0.82	0.18	0.13	0.14	
11	0.08	0.12	0.12	0.17	0.16	0.15	0.66	0.66	0.74	0.18	0.13	0.14	
12	0.08	0.11	0.12	0.17	0.14	0.15	0.54	5.20	0.66	0.18	0.13	0.13	
13	0.08	0.10	0.11	0.16	0.13	0.16	0.44	3.50	0.62	0.18	0.14	0.13	
14	0.08	0.10	0.11	0.14	0.11	0.16	0.47	2.92	0.58	0.18	0.14	0.14	
15	0.08	0.16	0.12	0.14	0.11	0.17	0.44	2.28	0.54	0.17	0.14	0.14	
16	0.10	0.15	0.17	0.14	0.10	0.17	0.44	1.78	0.50	0.17	0.14	0.14	
17	0.09	0.14	0.18	0.14	0.10	0.17	0.38	1.50	0.50	0.17	0.14	0.14	
18	0.09	0.12	0.17	0.14	0.12	0.29	0.35	1.44	0.47	0.17	0.19	0.15	
19	0.09	0.10	0.17	0.14	0.12	0.29	0.35	3.40	0.41	0.17	0.26	0.15	
20	0.09	0.10	0.18	0.13	0.12	0.38	0.32	5.62	0.41	0.17	0.20	0.15	
21	0.09	0.11	0.19	0.13	0.12	0.20	0.29	3.30	0.38	0.17	0.19	0.15	
22	0.09	0.10	0.19	0.13	0.12	0.20	0.26	2.60	0.38	0.17	0.18	0.14	
23	0.09	0.10	0.19	0.13	0.13	0.19	0.26	2.28	0.38	0.17	0.18	0.14	
24	0.09	0.10	0.18	0.12	0.13	0.19	0.26	1.78	0.35	0.16	0.18	0.14	
25	0.09	0.10	0.16	0.12	0.14	0.18	0.26	1.44	0.35	0.16	0.17	0.14	
26	0.08	0.10	0.16	0.12	0.15	0.18	0.26	1.26	0.32	0.16	0.17	0.14	
27	0.08	0.12	0.15	0.12	0.16	0.18	0.23	1.02	0.32	0.16	0.17	0.14	
28	0.08	0.11	0.14	0.11	0.16	0.20	0.20	6.18	0.29	0.16	0.17	0.14	
29	0.08	0.11	0.14	0.11	0.15	0.20	0.19	6.60	0.26	0.16	0.17	0.13	
30	0.08	0.10	0.14	0.11	0.15	0.19	0.19	4.60	0.26	0.15		0.13	
31		0.10		0.11	0.15		0.18		0.23	0.15		0.13	
TOTAL	2.60	3.90	4.68	4.17	3.88	5.43	11.22	65.69	26.13	5.52	4.59	4.47	142.28 CMSDAY
MEAN	0.09	0.13	0.16	0.13	0.13	0.18	0.36	2.19	0.84	0.18	0.16	0.14	0.39 CMS
MAX	0.10	0.38	0.23	0.18	0.16	0.38	0.66	6.60	3.30	0.23	0.26	0.16	6.60 CMS
MIN	0.08	0.08	0.11	0.11	0.10	0.13	0.18	0.19	0.23	0.15	0.13	0.13	0.08 CMS
RUNOFF	0.225	0.337	0.404	0.360	0.335	0.469	0.969	5.676	2.258	0.477	0.397	0.386	12.293 MCM

MOMENTARY PEAK 13.20 CMS, AT 3.28 M (A.D), AT 18.00 HOURS, ON NOV 28, 1987

RUNOFF YIELD 1.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 56.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

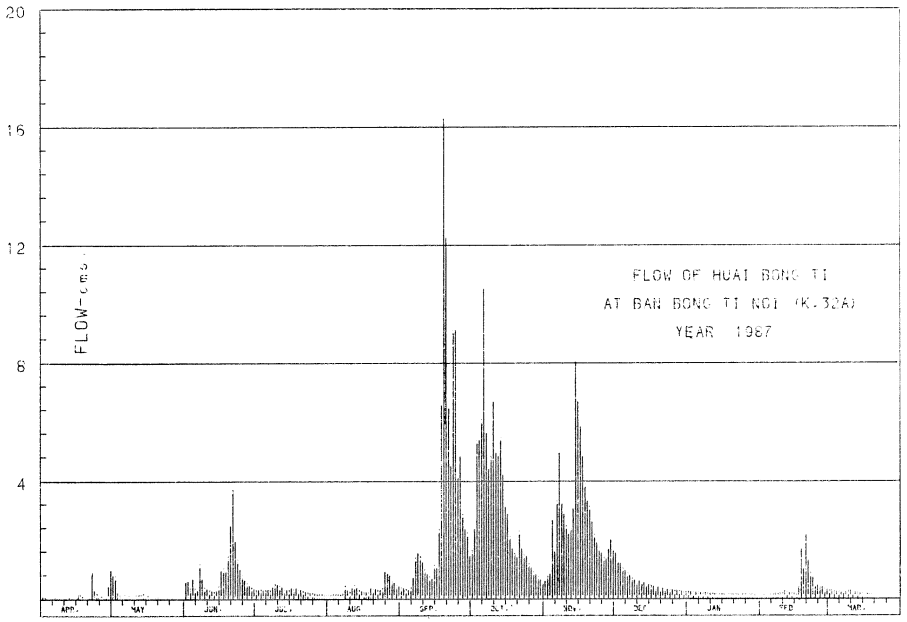
HUAI BONG TI AT BAN BONG TI NOI, KANCHANABURI (K.32A)

LOCATION	LAT. 14°16'25" N., LONG. 98°56'04" E., ON RIGHT BANK AT BAN BONG TI NOI,AMPHOE SAI YOK, KANCHANABURI.
DRAINAGE AREA	512 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 8.50 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+4.238 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	1984 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.67	0.95	0.92	0.80	0.72	0.83	1.13	0.90	1.11	0.77	0.71	0.80	
2	0.66	0.95	0.90	0.80	0.72	0.82	1.26	0.94	1.07	0.77	0.71	0.79	
3	0.66	0.75	0.82	0.81	0.73	0.81	1.58	0.96	1.04	0.76	0.71	0.78	
4	0.65	0.72	0.92	0.79	0.73	0.80	1.58	1.32	1.01	0.76	0.71	0.77	
5	0.65	0.71	0.82	0.80	0.73	0.83	1.64	1.12	0.99	0.76	0.73	0.77	
6	0.65	0.72	0.79	0.80	0.72	0.93	1.97	1.38	0.97	0.75	0.73	0.76	
7	0.65	0.71	1.04	0.80	0.74	1.08	1.61	1.54	0.95	0.75	0.74	0.80	
8	0.65	0.71	0.92	0.83	0.85	1.11	1.49	1.38	0.93	0.75	0.73	0.78	
9	0.65	0.69	0.83	0.87	0.79	1.09	1.53	1.33	0.91	0.75	0.74	0.78	
10	0.65	0.69	0.81	0.86	0.77	1.05	1.69	1.28	0.90	0.74	0.74	0.78	
11	0.65	0.72	0.80	0.85	0.82	1.00	1.55	1.23	0.90	0.74	0.78	0.77	
12	0.65	0.72	0.78	0.83	0.86	0.96	1.53	1.27	0.89	0.74	0.77	0.76	
13	0.65	0.73	0.77	0.81	0.82	0.94	1.59	1.35	0.88	0.73	0.75	0.75	
14	0.65	0.74	0.78	0.80	0.80	0.92	1.47	1.81	0.87	0.73	0.75	0.75	
15	0.65	0.72	0.85	0.80	0.78	1.03	1.37	1.69	0.86	0.73	0.74	0.74	
16	0.72	0.71	0.99	0.82	0.76	1.01	1.33	1.63	0.85	0.73	0.73	0.73	
17	0.73	0.70	1.01	0.81	0.76	1.26	1.22	1.53	0.84	0.73	0.83	0.73	
18	0.69	0.70	0.98	0.82	0.77	1.68	1.14	1.44	0.83	0.73	1.16	0.73	
19	0.67	0.69	1.09	0.80	0.82	2.30	1.11	1.38	0.83	0.73	1.00	0.72	
20	0.66	0.68	1.28	0.80	0.81	2.07	1.08	1.36	0.82	0.73	1.25	0.71	
21	0.66	0.68	1.42	0.79	0.81	1.68	1.25	1.30	0.82	0.73	1.06	0.71	
22	0.98	0.67	1.19	0.77	0.80	1.50	1.14	1.23	0.81	0.73	0.97	0.71	
23	0.79	0.67	1.07	0.76	0.80	1.88	1.10	1.18	0.80	0.73	0.93	0.71	
24	0.74	0.67	1.00	0.75	0.82	1.88	1.09	1.15	0.80	0.73	0.88	0.70	
25	0.71	0.68	0.95	0.75	0.98	1.47	1.04	1.11	0.80	0.73	0.85	0.70	
26	0.69	0.66	0.91	0.74	1.00	1.53	1.01	1.08	0.79	0.73	0.83	0.70	
27	0.69	0.65	0.88	0.73	0.95	1.33	0.98	1.07	0.79	0.73	0.83	0.70	
28	0.73	0.65	0.85	0.73	0.90	1.26	0.96	1.16	0.79	0.73	0.81	0.70	
29	0.84	0.68	0.83	0.73	0.88	1.24	0.94	1.20	0.78	0.72	0.80	0.70	
30	1.02	0.70	0.81	0.72	0.86	1.09	0.91	1.15	0.77	0.72		0.70	
31		0.68		0.71	0.84		0.90		0.77	0.72		0.70	
MEAN	0.70	0.71	0.93	0.79	0.81	1.25	1.30	1.28	0.88	0.74	0.83	0.74	
MAX	1.02	0.95	1.42	0.87	1.00	2.30	1.97	1.81	1.11	0.77	1.25	0.80	2.30
MIN	0.65	0.65	0.77	0.71	0.72	0.80	0.90	0.90	0.77	0.72	0.71	0.70	0.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.57 M (A.D), AT 24.00 HOURS, ON SEP 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.41 M (A.D)
LEFT BANK ELEVATION 4.11 M (A.D)
RIGHT BANK ELEVATION 4.19 M (A.D), DRAINAGE AREA 512 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.80	0.68	0.30	0.14	0.39	1.65	0.60	1.55	0.24	0.12	0.30	
2	0.06	0.80	0.60	0.30	0.14	0.36	2.36	0.76	1.35	0.24	0.12	0.28	
3	0.06	0.20	0.36	0.33	0.16	0.33	5.38	0.84	1.20	0.22	0.12	0.26	
4	0.05	0.14	0.68	0.28	0.16	0.30	5.38	2.78	1.05	0.22	0.12	0.24	
5	0.05	0.12	0.36	0.30	0.16	0.39	6.08	1.60	0.96	0.22	0.16	0.24	
6	0.05	0.14	0.28	0.30	0.14	0.72	10.52	3.32	0.88	0.20	0.16	0.22	
7	0.05	0.12	1.20	0.30	0.18	1.40	5.72	4.94	0.80	0.20	0.18	0.30	
8	0.05	0.12	0.68	0.39	0.45	1.55	4.40	3.32	0.72	0.20	0.16	0.26	
9	0.05	0.09	0.39	0.51	0.28	1.45	4.83	2.87	0.64	0.20	0.18	0.26	
10	0.05	0.09	0.33	0.48	0.24	1.25	6.68	2.48	0.60	0.18	0.18	0.26	
11	0.05	0.14	0.30	0.45	0.36	1.00	5.05	2.18	0.60	0.18	0.26	0.24	
12	0.05	0.14	0.26	0.39	0.48	0.84	4.83	2.42	0.57	0.18	0.24	0.22	
13	0.05	0.16	0.24	0.33	0.36	0.76	5.49	3.05	0.54	0.16	0.20	0.20	
14	0.05	0.18	0.26	0.30	0.30	0.68	4.20	8.14	0.51	0.16	0.20	0.20	
15	0.05	0.14	0.45	0.30	0.26	1.15	3.23	6.68	0.48	0.16	0.18	0.18	
16	0.14	0.12	0.96	0.36	0.22	1.05	2.87	5.96	0.45	0.16	0.16	0.16	
17	0.16	0.10	1.05	0.33	0.22	2.36	2.12	4.83	0.42	0.16	0.39	0.16	
18	0.09	0.10	0.92	0.36	0.24	6.56	1.70	3.90	0.39	0.16	1.80	0.16	
19	0.07	0.09	1.45	0.30	0.36	16.40	1.55	3.32	0.39	0.16	1.00	0.14	
20	0.06	0.08	2.48	0.30	0.33	12.26	1.40	3.14	0.36	0.16	2.30	0.12	
21	0.06	0.08	3.70	0.28	0.33	6.56	2.30	2.60	0.36	0.16	1.30	0.12	
22	0.92	0.07	1.95	0.24	0.30	4.50	1.70	2.18	0.33	0.16	0.88	0.12	
23	0.28	0.07	1.35	0.22	0.30	9.12	1.50	1.90	0.30	0.16	0.72	0.12	
24	0.18	0.07	1.00	0.20	0.36	9.12	1.45	1.75	0.30	0.16	0.54	0.10	
25	0.12	0.08	0.80	0.20	0.92	4.20	1.20	1.55	0.30	0.16	0.45	0.10	
26	0.09	0.06	0.64	0.18	1.00	4.83	1.05	1.40	0.28	0.16	0.39	0.10	
27	0.09	0.05	0.54	0.16	0.80	2.87	0.92	1.35	0.28	0.16	0.39	0.10	
28	0.16	0.05	0.45	0.16	0.60	2.36	0.84	1.80	0.28	0.16	0.33	0.10	
29	0.42	0.08	0.39	0.16	0.54	2.24	0.76	2.00	0.26	0.14	0.30	0.10	
30	1.10	0.10	0.33	0.14	0.48	1.45	0.64	1.75	0.24	0.14		0.10	
31		0.08		0.12	0.42		0.60		0.24	0.14		0.10	
TOTAL	4.73	4.66	25.08	8.97	11.23	98.45	98.40	85.41	17.63	5.46	13.53	5.56	379.11 CMSDAY
MEAN	0.16	0.15	0.84	0.29	0.36	3.28	3.17	2.85	0.57	0.18	0.47	0.18	1.04 CMS
MAX	1.10	0.80	3.70	0.51	1.00	16.40	10.52	8.14	1.55	0.24	2.30	0.30	16.40 CMS
MIN	0.05	0.05	0.24	0.12	0.14	0.30	0.60	0.60	0.24	0.14	0.12	0.10	0.05 CMS
RUNOFF	0.409	0.403	2.167	0.775	0.970	8.506	8.502	7.379	1.523	0.472	1.169	0.480	32.755 MCM

MOMENTARY PEAK 22.28 CMS, AT 2.57 M (A.D), AT 24.00 HOURS, ON SEP 19, 1987

RUNOFF YIELD 2.02 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 43.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

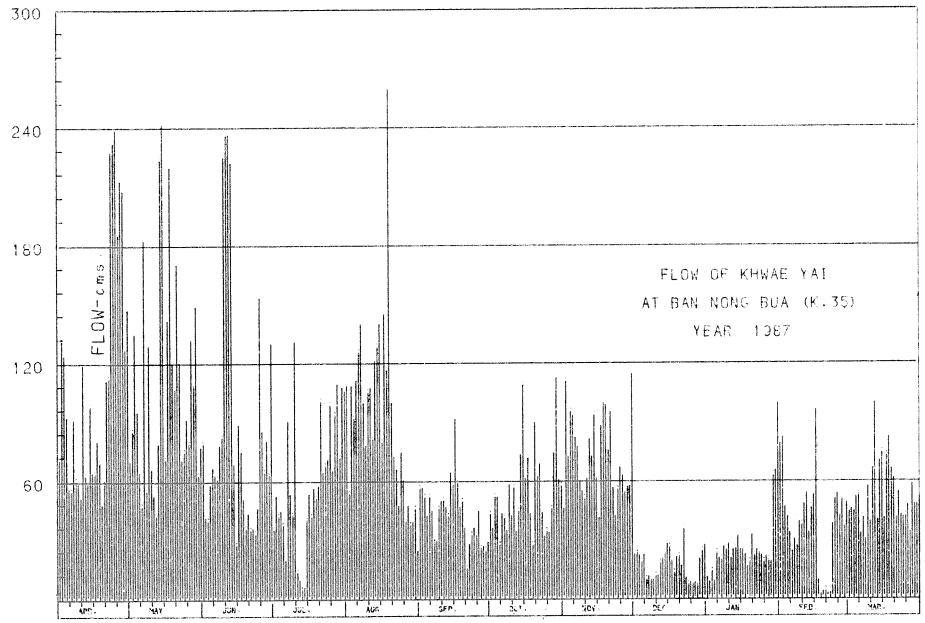
KHWAE YAI AT BAN NONG BUA, KANCHANABURI (K.35)

LOCATION	LAT. 14°03'22" N., LONG. 99°27'35" E., ON LEFT BANK AT BAN NONG BUA, AMPHOE MUANG, KANCHANABURI.
DRAINAGE AREA	14,528 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 5 METERS FROM THE THIRD STAFF GAGE.
ELEVATION	+7.667 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	1984 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984 - 1985, 1987 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 - 1985, 1987 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.50	2.49	2.62	2.03	2.94	2.34	2.16	2.18	1.77	1.54	2.60	2.18	
2	3.19	2.70	2.11	2.27	2.30	2.32	2.02	2.98	1.81	1.42	2.66	2.17	
3	3.10	3.21	2.11	2.14	2.94	2.28	2.28	2.52	1.76	1.61	2.19	2.18	
4	2.78	2.81	2.34	2.16	2.77	2.12	2.26	2.81	1.72	1.43	2.14	2.26	
5	2.32	2.42	2.47	2.07	2.97	2.28	1.90	2.77	1.77	1.82	1.98	2.29	
6	2.32	2.22	2.40	1.71	3.13	2.16	2.14	2.66	1.50	1.73	1.85	1.97	
7	2.75	3.66	2.40	2.76	3.26	1.92	2.13	2.58	1.50	1.75	1.92	2.13	
8	2.39	2.32	2.59	2.28	2.86	1.91	2.00	2.38	1.49	1.85	1.90	1.92	
9	2.35	3.15	2.66	2.15	2.59	2.20	2.36	2.30	1.45	1.86	2.07	2.35	
10	2.28	2.46	4.02	3.17	2.92	2.23	2.12	2.27	1.55	1.88	2.07	2.07	
11	3.05	2.27	4.12	1.60	2.93	2.26	2.34	2.38	1.51	1.77	2.21	2.46	
12	2.42	2.15	4.11	1.45	2.65	2.19	1.99	2.65	1.71	1.82	2.31	2.84	
13	2.35	2.60	4.01	1.32	3.07	2.14	2.18	2.52	1.72	1.87	1.98	2.11	
14	2.84	4.02	2.47	1.31	3.16	2.42	2.53	2.79	1.81	1.95	2.21	2.49	
15	2.42	4.15	1.90	2.11	3.26	2.36	2.96	2.38	1.88	1.86	2.27	2.56	
16	2.43	2.52	2.72	2.28	2.63	2.75	2.38	2.13	1.88	1.82	2.82	2.10	
17	2.62	3.28	2.57	2.14	3.31	2.37	2.53	2.71	1.70	1.81	1.44	2.54	
18	2.50	3.99	2.25	2.32	3.04	2.19	2.14	2.86	1.59	1.63	1.23	2.64	
19	2.21	3.06	2.04	2.27	4.29	2.25	1.90	2.83	1.74	1.72	1.20	2.46	
20	2.37	2.94	2.14	2.33	2.86	2.02	2.73	2.58	1.78	1.96	1.30	2.38	
21	2.97	3.55	2.03	2.87	2.52	1.64	2.41	2.79	1.64	1.79	1.14	2.13	
22	3.00	3.08	2.02	2.42	2.46	1.88	2.47	2.34	2.04	1.82	1.27	2.29	
23	4.04	2.50	2.00	2.48	2.20	1.99	2.17	2.12	1.48	1.82	2.05	2.15	
24	4.09	2.57	2.18	2.50	2.57	2.02	1.95	2.33	1.42	1.76	2.27	2.11	
25	4.13	2.75	3.41	2.85	2.37	1.99	2.02	2.45	1.41	1.72	2.28	2.14	
26	3.70	2.62	2.68	2.43	2.10	2.16	1.98	2.42	1.42	1.75	2.15	2.20	
27	3.92	3.18	2.44	2.79	2.20	1.87	2.20	2.29	1.41	1.74	2.24	2.01	
28	3.89	2.96	2.62	2.95	2.07	1.86	2.54	2.35	1.38	1.69	2.06	2.34	
29	3.13	3.35	2.42	2.53	2.07	1.85	3.00	2.33	1.72	2.42	2.22	2.23	
30	3.35	2.42	3.16	2.93	2.20	1.90	2.37	3.02	1.84	2.43		2.21	
31		2.58		2.93	1.81		2.35		1.87	2.86		2.25	
MEAN	2.91	2.90	2.63	2.31	2.72	2.13	2.27	2.52	1.65	1.84	2.00	2.26	
MAX	4.13	4.15	4.12	3.17	4.29	2.75	3.00	3.02	2.04	2.86	2.82	2.84	4.29
MIN	2.21	2.15	1.90	1.31	1.81	1.64	1.90	2.12	1.38	1.42	1.14	1.92	1.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.95 M (A.D), AT 6.00 HOURS, ON AUG 19, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.07 M (A.D)
LEFT BANK ELEVATION 8.27 M (A.D)
RIGHT BANK ELEVATION 8.28 M (A.D), DRAINAGE AREA 14528 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	71.00	70.20	80.60	36.80	108.60	58.20	44.90	46.20	22.65	12.98	79.00	46.20	
2	133.00	87.00	41.65	52.75	55.00	56.60	36.20	112.20	24.50	8.78	83.80	45.55	
3	124.00	135.00	41.65	43.60	108.60	53.50	53.50	72.60	22.20	15.63	46.85	46.20	
4	94.20	96.90	58.20	44.90	93.30	42.30	52.00	96.90	20.40	9.12	43.60	52.00	
5	56.60	64.60	68.60	39.20	111.30	53.50	29.00	93.30	22.65	25.00	33.80	54.25	
6	56.60	49.00	63.00	19.95	127.00	44.90	43.60	83.80	11.50	20.85	26.50	33.20	
7	91.50	182.60	63.00	92.40	140.00	30.20	42.95	77.40	11.50	21.75	30.20	42.95	
8	62.20	56.60	78.20	53.50	101.40	29.60	35.00	61.40	11.16	26.50	29.00	30.20	
9	59.00	129.00	83.80	44.25	78.20	47.50	59.80	55.00	9.80	27.00	39.20	59.00	
10	53.50	67.80	225.00	131.00	106.80	49.75	42.30	52.75	13.35	28.00	39.20	39.20	
11	119.00	52.75	237.60	15.20	107.70	52.00	58.20	61.40	11.87	22.65	48.25	67.80	
12	64.60	44.25	236.30	9.80	83.00	46.85	34.40	83.00	19.95	25.00	55.80	99.60	
13	59.00	79.00	223.75	6.26	121.00	43.60	46.20	72.60	20.40	27.50	33.80	41.65	
14	99.60	225.00	68.60	6.03	130.00	64.60	73.40	95.10	24.50	32.00	48.25	70.20	
15	64.60	241.50	29.00	41.65	140.00	59.80	110.40	61.40	28.00	27.00	52.75	75.80	
16	65.40	72.60	88.80	53.50	81.40	91.50	61.40	42.95	28.00	25.00	97.80	41.00	
17	80.60	142.00	76.60	43.60	145.00	60.60	73.40	87.90	19.50	24.50	9.46	74.20	
18	71.00	221.30	51.25	56.60	118.00	46.85	43.60	101.40	14.83	16.49	4.33	82.20	
19	48.25	120.00	37.40	52.75	259.70	51.25	29.00	98.70	21.30	20.40	3.70	67.80	
20	60.60	108.60	43.60	57.40	101.40	36.20	89.70	77.40	23.10	32.60	5.80	61.40	
21	111.30	170.50	36.80	102.30	72.60	16.92	63.80	95.10	16.92	23.55	2.56	42.95	
22	114.00	122.00	36.20	64.60	67.80	28.00	68.60	58.20	37.40	25.00	5.17	54.25	
23	227.50	71.00	35.00	69.40	47.50	34.40	45.55	42.30	10.82	25.00	38.00	44.25	
24	233.75	76.60	46.20	71.00	76.60	36.20	32.00	57.40	8.78	22.20	52.75	41.65	
25	238.90	91.50	155.10	100.50	60.60	34.40	36.20	67.00	8.44	20.40	53.50	43.60	
26	187.00	80.60	85.40	65.40	41.00	44.90	33.80	64.60	8.78	21.75	44.25	47.50	
27	212.90	132.00	66.20	95.10	47.50	27.50	47.50	54.25	8.44	21.30	50.50	35.60	
28	209.30	110.40	80.60	109.50	39.20	27.00	74.20	59.00	7.64	19.07	38.60	58.20	
29	127.00	149.00	64.60	73.40	39.20	26.50	114.00	57.40	20.40	64.60	49.00	49.75	
30	149.00	64.60	130.00	107.70	47.50	29.00	60.60	116.00	26.00	65.40		48.25	
31		77.40		107.70	24.50		59.00		27.50	101.40		51.25	
TOTAL	3344.90	3391.30	2632.70	1867.74	2881.40	1324.12	1694.20	2204.65	562.28	858.42	1145.42	1647.65	23554.78 CMSDAY
MEAN	111.50	109.40	87.76	60.25	92.95	44.14	54.65	73.49	18.14	27.69	39.50	53.15	64.36 CMS
MAX	238.90	241.50	237.60	131.00	259.70	91.50	114.00	116.00	37.40	101.40	97.80	99.60	259.70 CMS
MIN	48.25	44.25	29.00	6.03	24.50	16.92	29.00	42.30	7.64	8.78	2.56	30.20	2.56 CMS
RUNOFF	288.999	293.008	227.465	161.373	248.953	114.404	146.379	190.482	48.581	74.167	98.964	142.357	2035.133 MCM

MOMENTARY PEAK 354.50 CMS, AT 4.95 M (A.D), AT 6.00 HOURS, ON AUG 19, 1987

RUNOFF YIELD 4.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 24.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

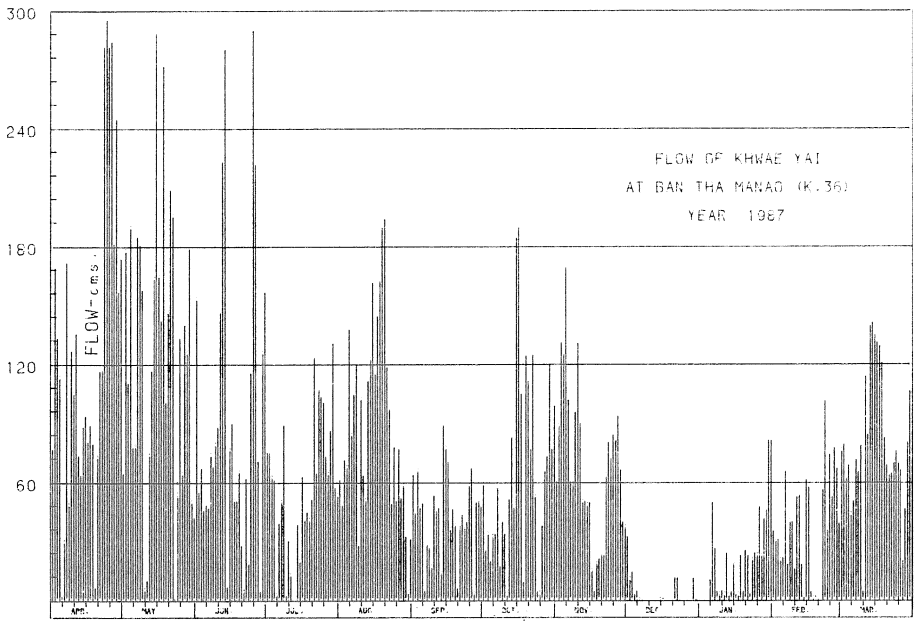
KHWAE YAI AT BAN THA MANAO, KANCHANABURI (K.26)

LOCATION	LAT. 14°09'48" N., LONG. 99-16-38 E., ON LEFT BANK AT BAN THA MANAO, AMPHOE MUANG, KANCHANABURI.
DRAINAGE AREA	11,787 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 10 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+6.888 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	1984 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 20 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.77	2.63	3.53	2.77	2.59	2.64	2.58	2.58	2.19	1.45	2.23	2.78	
2	3.67	3.74	2.51	2.75	2.44	2.36	2.08	2.91	1.84	1.45	2.18	2.80	
3	3.34	3.12	2.68	2.62	2.71	2.66	2.23	3.32	1.89	1.45	2.17	2.62	
4	3.16	3.84	2.38	2.59	2.68	2.40	1.99	3.28	1.65	1.43	2.02	2.68	
5	1.55	2.78	2.44	1.63	3.38	2.46	2.21	3.66	1.66	1.84	2.02	2.37	
6	2.17	2.80	2.40	2.29	2.86	1.66	2.21	3.05	1.52	2.44	2.66	2.45	
7	3.68	3.79	2.75	2.46	3.06	2.15	2.56	2.58	1.43	2.13	1.96	2.73	
8	2.44	3.77	2.67	2.90	3.23	2.10	1.94	2.58	1.42	1.65	2.32	2.64	
9	3.28	3.56	2.81	1.63	2.12	1.96	2.32	2.97	1.42	1.65	2.30	2.81	
10	3.08	1.71	2.89	2.16	3.05	2.49	2.21	3.33	1.42	1.66	1.95	1.65	
11	3.36	1.80	3.47	1.88	2.62	2.40	1.64	2.91	1.44	1.65	2.48	3.17	
12	2.75	2.75	4.10	1.44	2.47	2.40	2.46	2.46	1.48	2.06	2.51	2.85	
13	2.62	3.18	4.54	1.39	3.13	1.90	2.85	2.45	1.47	1.63	1.96	3.41	
14	2.91	3.62	1.72	2.28	3.25	2.90	2.40	2.44	1.49	1.64	1.61	3.41	
15	2.95	4.59	2.78	2.01	3.59	2.79	3.80	2.44	1.52	1.99	2.59	3.37	
16	2.83	3.63	2.91	2.61	3.18	2.70	3.83	1.92	1.49	1.59	2.57	3.32	
17	2.90	3.42	2.47	2.33	3.44	2.26	3.08	1.65	1.45	1.64	1.64	3.32	
18	2.82	4.48	2.45	2.37	3.61	2.39	1.78	1.99	1.43	2.04	1.57	3.22	
19	1.71	3.02	2.65	2.33	3.83	2.29	3.27	2.01	1.48	1.70	1.56	2.85	
20	2.74	3.47	2.12	2.46	3.88	1.70	3.13	2.07	1.46	2.08	1.46	2.68	
21	3.18	3.99	1.69	3.26	3.20	2.27	2.79	2.04	1.83	2.07	1.45	2.64	
22	3.20	3.89	2.60	2.63	3.00	2.35	3.26	2.63	1.87	1.61	2.55	2.63	
23	4.54	1.50	1.99	3.10	2.43	2.28	2.50	2.81	1.47	2.02	3.03	2.71	
24	4.65	2.60	3.17	3.05	2.80	2.30	1.65	2.74	1.46	2.06	2.26	2.76	
25	4.54	3.34	4.61	3.04	2.45	2.57	1.66	2.85	1.46	2.06	2.74	2.71	
26	4.57	2.64	4.09	2.73	2.79	2.66	2.27	2.84	1.44	2.41	2.50	2.65	
27	3.76	3.40	2.72	2.64	2.47	1.66	2.66	2.95	1.45	2.06	2.78	2.02	
28	4.28	3.28	1.65	2.87	2.57	2.44	2.73	2.67	1.42	2.32	2.68	2.39	
29	3.55	3.74	3.28	3.33	2.19	2.47	3.23	2.30	1.83	2.41	2.29	2.83	
30	3.71	2.46	3.55	2.54	1.67	2.41	2.77	2.28	1.45	2.82		3.08	
31		2.33		2.51	2.17		3.02		1.44	2.84		2.69	
MEAN	3.22	3.19	2.85	2.47	2.87	2.33	2.55	2.62	1.56	1.93	2.21	2.78	
MAX	4.65	4.59	4.61	3.33	3.88	2.90	3.83	3.66	2.19	2.84	3.03	3.41	4.65
MIN	1.55	1.50	1.65	1.39	1.67	1.66	1.64	1.65	1.42	1.43	1.45	1.65	1.39

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.85 M (A.D), AT 18.00 HOURS, ON APR 23, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.48 M (A.D)
LEFT BANK ELEVATION 8.90 M (A.D)
RIGHT BANK ELEVATION 7.72 M (A.D), DRAINAGE AREA 11787 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	76.80	64.55	154.45	76.80	61.20	65.40	60.40	60.40	32.35	0.50	35.10	77.70	
2	170.55	178.80	54.80	75.00	49.80	44.20	25.30	89.95	12.00	0.50	31.70	79.50	
3	133.40	110.50	68.80	63.70	71.40	67.10	35.10	131.20	14.50	0.50	31.05	63.70	
4	114.50	190.80	45.60	61.20	68.80	47.00	19.95	126.90	4.50	0.30	21.70	68.80	
5	2.00	77.70	49.80	3.90	137.80	51.20	33.70	169.40	4.80	12.00	21.70	44.90	
6	31.05	79.50	47.00	39.30	85.20	4.80	33.70	103.50	1.40	49.80	67.10	50.50	
7	171.70	184.80	75.00	51.20	104.50	29.75	58.80	60.40	0.30	28.45	18.30	73.20	
8	49.80	182.40	67.95	89.00	121.65	26.50	17.20	60.40	0.20	4.50	41.40	65.40	
9	126.90	157.90	80.45	3.90	27.80	18.30	41.40	95.65	0.20	4.50	40.00	80.45	
10	106.50	6.40	88.05	30.40	103.50	53.30	33.70	132.30	0.20	4.80	17.75	4.50	
11	135.60	10.00	147.70	14.00	63.70	47.00	4.20	89.95	0.40	4.50	52.60	115.50	
12	75.00	75.00	223.00	0.40	51.90	47.00	51.20	51.20	0.80	24.10	54.80	84.25	
13	63.70	116.50	281.60	0.00	111.50	15.00	84.25	50.50	0.70	3.90	18.30	141.10	
14	89.95	164.80	6.80	38.60	123.75	89.00	47.00	49.80	0.90	4.20	3.30	141.10	
15	93.75	288.60	77.70	21.10	161.35	78.60	186.00	49.80	1.40	19.95	61.20	136.70	
16	82.35	165.95	89.95	62.85	116.50	70.50	189.60	16.10	0.90	2.80	59.60	131.20	
17	89.00	142.20	51.90	42.10	144.40	37.20	106.50	4.50	0.50	4.20	4.20	131.20	
18	81.40	273.20	50.50	44.90	163.65	46.30	9.20	19.95	0.30	22.90	2.40	120.60	
19	6.40	100.50	66.25	42.10	189.60	39.30	125.85	21.10	0.80	6.00	2.20	84.25	
20	74.10	147.70	27.80	51.20	195.60	6.00	111.50	24.70	0.60	25.30	0.60	68.80	
21	116.50	208.80	5.70	124.80	118.50	37.90	78.60	22.90	11.50	24.70	0.50	65.40	
22	118.50	196.80	62.00	64.55	98.50	43.50	124.80	64.55	13.50	3.30	58.00	64.55	
23	281.60	1.00	19.95	108.50	49.10	38.60	54.00	80.45	0.70	21.70	101.50	71.40	
24	297.00	62.00	115.50	103.50	79.50	40.00	4.50	74.10	0.60	24.10	37.20	75.90	
25	281.60	133.40	291.40	102.50	50.50	59.60	4.80	84.25	0.60	24.10	74.10	71.40	
26	285.80	65.40	221.70	73.20	78.60	67.10	37.90	83.30	0.40	47.70	54.00	66.25	
27	181.20	140.00	72.30	65.40	51.90	4.80	67.10	93.75	0.50	24.10	77.70	21.70	
28	246.40	126.90	4.50	86.15	59.60	49.80	73.20	67.95	0.20	41.40	68.80	46.30	
29	156.75	178.80	126.90	132.30	32.35	51.90	121.65	40.00	11.50	47.70	39.30	82.35	
30	175.20	51.20	156.75	57.20	5.10	47.70	76.80	38.60	0.50	81.40		106.50	
31		42.10		54.80	31.05		100.50		0.40	83.30		69.65	
TOTAL	3915.00	3924.20	2831.80	1784.55	2808.30	1324.35	2018.40	2057.55	118.15	647.20	1096.10	2504.75	25030.35 CMSDAY
MEAN	130.50	126.59	94.39	57.57	90.59	44.15	65.11	68.58	3.81	20.88	37.80	80.80	68.39 CMS
MAX	297.00	288.60	291.40	132.30	195.60	89.00	189.60	169.40	32.35	83.30	101.50	141.10	297.00 CMS
MIN	2.00	1.00	4.50	0.00	5.10	4.80	4.20	4.50	0.20	0.30	0.50	4.50	0.00 CMS
RUNOFF	338.256	339.051	244.668	154.185	242.637	114.424	174.390	177.772	10.208	55.918	94.703	216.410	2162.622 MCM

MOMENTARY PEAK 325.00 CMS, AT 4.85 M (A.D), AT 18.00 HOURS, ON APR 23, 1987

RUNOFF YIELD 5.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 27.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

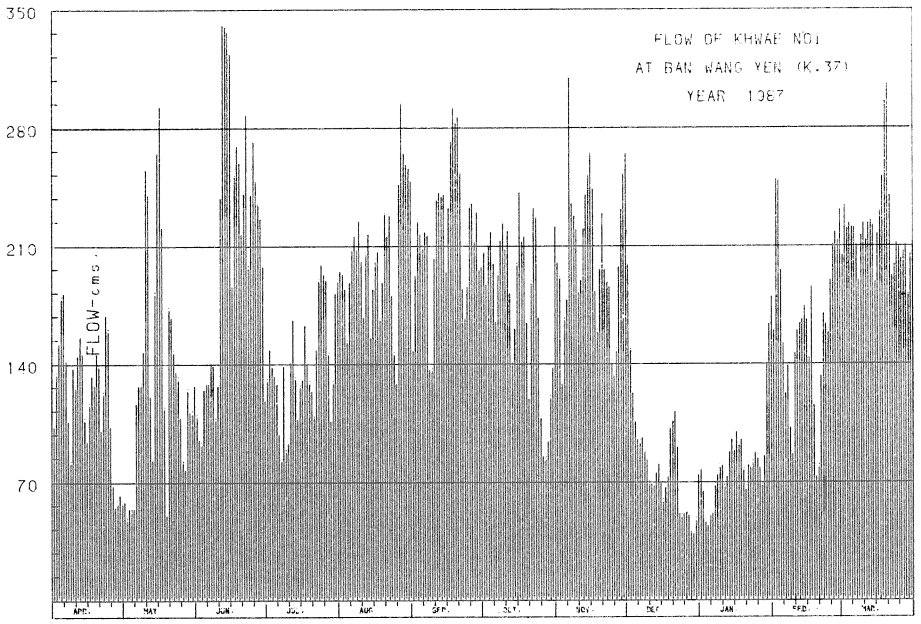
KHWAE NOI AT BAN WANG YEN, KANCHANABURI (K.37)

LOCATION	LAT. 13°55'57" N., LONG. 99°25'37" E., ON LEFT BANK AT BAN WANG YEN, AMPHOE MUANG, KANCHANABURI.
DRAINAGE AREA	10,603 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 10 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+9.150 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	1984 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.26	2.85	3.33	3.52	4.02	3.67	4.12	4.06	4.05	3.05	3.75	4.11	
2	3.55	2.76	3.19	3.66	4.02	4.00	3.96	4.00	3.67	2.91	4.45	4.32	
3	3.69	2.81	3.18	3.59	3.94	4.26	4.15	3.49	3.44	2.75	4.43	4.23	
4	3.91	2.81	3.46	3.53	3.71	4.19	4.20	3.81	3.30	2.71	4.04	4.24	
5	3.92	2.81	3.51	3.51	3.97	4.14	4.07	3.89	3.19	2.79	3.69	4.24	
6	3.62	3.40	3.49	3.22	4.13	4.20	3.79	4.88	3.19	2.78	3.46	4.22	
7	3.29	3.48	3.61	3.09	4.18	4.20	4.02	4.33	3.20	2.96	3.58	4.16	
8	3.08	3.50	3.58	3.58	4.13	3.56	4.16	4.29	3.14	3.00	3.27	3.98	
9	3.57	3.65	3.31	3.14	4.25	3.57	4.25	4.21	3.08	3.06	3.11	4.20	
10	3.48	4.49	3.48	3.17	4.08	4.08	4.12	3.94	2.97	3.05	3.66	4.24	
11	3.63	4.37	4.37	3.60	3.81	4.36	4.22	3.98	2.95	2.95	3.75	4.18	
12	3.74	3.44	5.09	3.80	4.11	4.38	3.92	4.23	2.96	2.99	3.80	4.24	
13	3.64	3.08	5.10	3.53	4.19	4.38	3.60	4.37	3.01	3.14	3.80	4.27	
14	3.31	3.93	5.06	3.30	3.73	4.37	3.76	4.47	3.08	3.19	3.88	4.23	
15	3.18	4.55	4.98	3.49	3.94	4.03	4.06	4.55	2.96	3.15	3.80	3.99	
16	3.39	4.76	3.95	3.51	4.08	4.31	4.38	4.41	2.87	3.23	3.64	4.19	
17	3.53	4.22	4.46	3.79	4.11	4.61	4.17	3.93	2.93	3.18	3.95	4.31	
18	3.50	3.37	4.58	3.59	3.81	4.74	4.18	3.76	3.01	3.19	3.39	4.45	
19	3.64	2.77	4.52	3.51	3.97	4.69	3.80	4.03	3.25	3.04	2.99	4.78	
20	3.59	3.86	4.19	3.45	4.30	4.70	3.41	4.30	3.31	2.92	3.06	4.84	
21	3.24	3.81	4.39	3.32	4.18	4.48	3.98	4.03	3.34	3.07	3.53	4.38	
22	3.45	3.66	4.71	3.66	4.29	3.94	4.31	3.99	3.17	3.04	3.84	4.00	
23	3.82	3.55	4.05	3.99	3.91	3.82	4.28	3.95	2.78	3.08	3.78	4.07	
24	3.76	3.53	4.37	4.05	3.65	3.95	3.81	3.61	2.78	3.12	3.76	4.15	
25	3.26	3.31	4.61	4.02	3.49	4.33	3.32	3.53	2.78	3.11	3.98	4.15	
26	2.96	3.08	4.43	3.98	4.43	4.33	3.10	3.67	2.81	3.04	4.16	4.08	
27	2.82	3.03	4.34	3.65	4.76	4.17	3.10	4.04	2.77	2.96	4.20	4.13	
28	2.86	3.47	4.26	3.29	4.56	4.29	3.18	4.32	2.69	3.10	4.18	4.14	
29	2.89	3.34	4.06	3.51	4.50	4.04	3.43	4.46	2.66	3.61	4.30	3.93	
30	2.86	3.35	3.40	3.92	4.50	4.04	3.57	4.56	2.76	3.78		4.10	
31		3.48		3.99	4.43		4.24		3.00	3.92		4.15	
MEAN	3.41	3.50	4.10	3.58	4.10	4.19	3.89	4.10	3.07	3.09	3.77	4.22	
MAX	3.92	4.76	5.10	4.05	4.76	4.74	4.38	4.88	4.05	3.92	4.45	4.84	5.10
MIN	2.82	2.76	3.18	3.09	3.49	3.56	3.10	3.49	2.66	2.71	2.99	3.93	2.66

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.14 M (A.D), AT 12.00 HOURS, ON JUN 12, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.67 M (A.D)
LEFT BANK ELEVATION 7.81 M (A.D)
RIGHT BANK ELEVATION 9.01 M (A.D), DRAINAGE AREA 10603 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	102.60	58.00	110.30	131.40	194.60	149.40	207.60	199.80	198.50	79.50	159.50	206.30	
2	135.00	49.00	94.90	148.20	194.60	192.00	186.80	192.00	149.40	64.10	251.00	233.60	
3	151.80	54.00	93.80	139.80	184.20	225.80	211.50	127.90	122.40	48.00	248.20	221.90	
4	180.30	54.00	124.60	132.60	154.30	216.70	218.00	167.30	107.00	44.00	197.20	223.20	
5	181.60	54.00	130.20	130.20	188.10	210.20	201.10	177.70	94.90	52.00	151.80	223.20	
6	143.40	118.00	127.90	98.20	208.90	218.00	164.70	311.20	94.90	51.00	124.60	220.60	
7	105.90	126.80	142.20	83.90	215.40	218.00	194.60	234.90	96.00	69.60	138.60	212.80	
8	82.80	129.00	138.60	138.60	208.90	136.20	212.80	229.70	89.40	74.00	103.70	189.40	
9	137.40	147.00	108.10	89.40	224.50	137.40	224.50	219.30	82.80	80.60	86.10	218.00	
10	126.80	256.60	126.80	92.70	202.40	202.40	207.60	184.20	70.70	79.50	148.20	223.20	
11	144.60	240.10	240.10	141.00	167.30	238.80	220.60	189.40	68.50	68.50	159.50	215.40	
12	158.20	122.40	340.60	166.00	206.30	241.40	181.60	221.90	69.60	72.90	166.00	223.20	
13	145.80	82.80	342.00	132.60	216.70	241.40	141.00	240.10	75.10	89.40	166.00	227.10	
14	108.10	182.90	336.40	107.00	156.90	240.10	160.80	253.80	82.80	94.90	176.40	221.90	
15	93.80	265.00	325.20	127.90	184.20	195.90	199.80	265.00	69.60	90.50	166.00	190.70	
16	116.90	294.40	185.50	130.20	202.40	232.30	241.40	245.40	60.00	99.30	145.80	216.70	
17	132.60	220.60	252.40	164.70	206.30	273.40	214.10	182.90	66.30	93.80	185.50	232.30	
18	129.00	114.70	269.20	139.80	167.30	291.60	215.40	160.80	75.10	94.90	116.90	251.00	
19	145.80	50.00	260.80	130.20	188.10	284.60	166.00	195.90	101.50	78.40	72.90	297.20	
20	139.80	173.80	216.70	123.50	231.00	286.00	119.10	231.00	108.10	65.20	80.60	305.60	
21	100.40	167.30	242.70	109.20	215.40	255.20	189.40	195.90	111.40	81.70	132.60	241.40	
22	123.50	148.20	287.40	148.20	229.70	184.20	232.30	190.70	92.70	78.40	171.20	192.00	
23	168.60	135.00	198.50	190.70	180.30	168.60	228.40	185.50	51.00	82.80	163.40	201.10	
24	160.80	132.60	240.10	198.50	147.00	185.50	167.30	142.20	51.00	87.20	160.80	211.50	
25	102.60	108.10	273.40	194.60	127.90	234.90	109.20	132.60	51.00	86.10	189.40	211.50	
26	69.60	82.80	248.20	189.40	248.20	234.90	85.00	149.40	54.00	78.40	212.80	202.40	
27	55.00	77.30	236.20	147.00	294.40	214.10	85.00	197.20	50.00	69.60	218.00	208.90	
28	59.00	125.70	225.80	105.90	266.40	229.70	93.80	233.60	42.00	85.00	215.40	210.20	
29	62.00	111.40	199.80	130.20	258.00	197.20	121.30	252.40	39.00	142.20	231.00	182.90	
30	59.00	112.50	118.00	181.60	258.00	197.20	137.40	266.40	49.00	163.40		205.00	
31		126.80		190.70	248.20		223.20		74.00	181.60		211.50	
TOTAL	3622.70	4120.80	6236.40	4333.90	6375.90	6533.10	5561.30	6176.10	2547.70	2626.50	4739.10	6831.70	59705.20 CMSDAY
MEAN	120.76	132.93	207.88	139.80	205.67	217.77	179.40	205.87	82.18	84.73	163.42	220.38	163.13 CMS
MAX	181.60	294.40	342.00	198.50	294.40	291.60	241.40	311.20	198.50	181.60	251.00	305.60	342.00 CMS
MIN	55.00	49.00	93.80	83.90	127.90	136.20	85.00	127.90	39.00	44.00	72.90	182.90	39.00 CMS
RUNOFF	313.001	356.037	538.825	374.449	550.878	564.460	480.496	533.615	220.121	226.930	409.458	590.259	5158.530 MCM

MOMENTARY PEAK 347.60 CMS, AT 5.14 M (A.D), AT 12.00 HOURS, ON JUN 12, 1987

RUNOFF YIELD 15.39 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 32.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

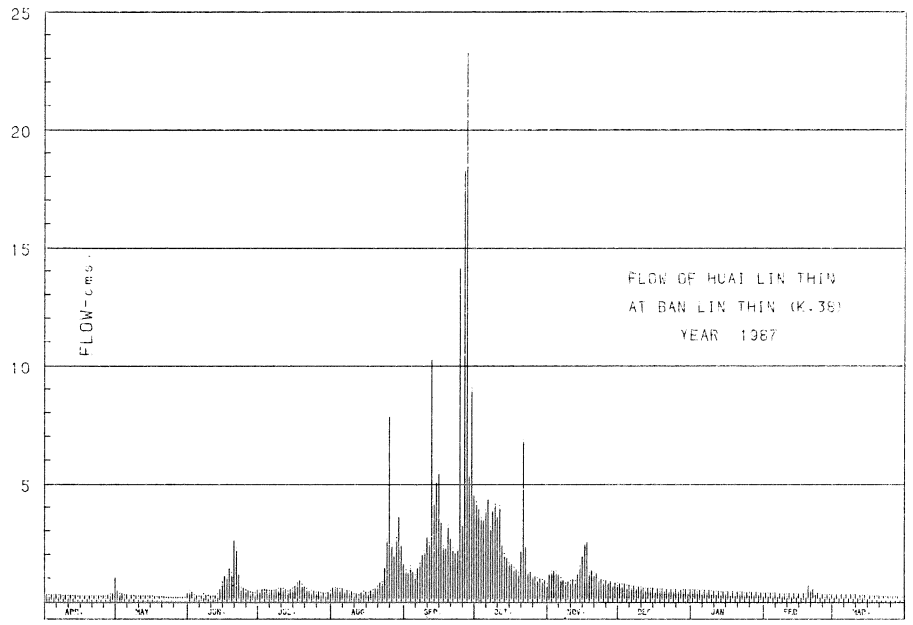
HUAI LIN THIN AT BAN LIN THIN, KANCHANABURI (K.28)

LOCATION	LAT. 14°23'40" N., LONG. 98°47'41" E., ON LEFT BANK AT K.M.95+700 ON KANCHANABURI-THONG PHA PHUME HIGHWAY, AMPHOE THONG PHA PHUM, KANCHANABURI.
DRAINAGE AREA	144 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 35 METERS FROM THE THRID STAFF GAGE.
ELEVATION	+8.986 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	1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.51	0.56	0.57	0.57	0.60	0.76	1.16	0.72	0.64	0.58	0.53	0.51	
2	0.51	0.53	0.54	0.58	0.61	0.73	1.12	0.75	0.64	0.58	0.53	0.51	
3	0.51	0.52	0.51	0.58	0.60	0.79	1.08	0.75	0.64	0.58	0.53	0.51	
4	0.51	0.51	0.49	0.58	0.60	0.74	1.06	0.75	0.63	0.57	0.53	0.51	
5	0.51	0.51	0.49	0.57	0.59	0.72	1.12	0.72	0.63	0.57	0.53	0.51	
6	0.51	0.50	0.49	0.57	0.57	0.77	1.17	0.70	0.62	0.57	0.53	0.51	
7	0.51	0.50	0.52	0.57	0.57	0.81	1.03	0.67	0.62	0.57	0.52	0.51	
8	0.50	0.50	0.50	0.58	0.56	0.86	1.11	0.65	0.61	0.57	0.52	0.51	
9	0.50	0.49	0.50	0.60	0.55	0.89	1.15	0.66	0.61	0.56	0.52	0.51	
10	0.50	0.49	0.49	0.60	0.52	0.97	1.08	0.67	0.61	0.56	0.52	0.51	
11	0.50	0.49	0.49	0.60	0.52	0.94	1.14	0.68	0.60	0.56	0.52	0.51	
12	0.50	0.49	0.49	0.58	0.51	1.74	0.92	0.67	0.60	0.56	0.52	0.50	
13	0.50	0.49	0.52	0.56	0.53	1.16	0.87	0.72	0.60	0.55	0.52	0.50	
14	0.49	0.49	0.58	0.58	0.56	1.25	0.84	0.79	0.60	0.55	0.52	0.50	
15	0.49	0.49	0.66	0.60	0.54	1.31	0.81	0.85	0.60	0.55	0.52	0.50	
16	0.49	0.49	0.71	0.62	0.54	1.05	0.80	0.94	0.59	0.55	0.52	0.49	
17	0.49	0.48	0.72	0.65	0.56	0.92	0.78	0.94	0.59	0.55	0.52	0.49	
18	0.50	0.48	0.77	0.67	0.58	0.90	0.76	0.74	0.59	0.55	0.52	0.49	
19	0.49	0.48	0.74	0.64	0.59	1.04	0.74	0.75	0.59	0.55	0.62	0.49	
20	0.49	0.48	0.95	0.61	0.62	0.96	0.88	0.74	0.59	0.55	0.60	0.49	
21	0.49	0.48	0.91	0.60	0.65	0.91	1.44	0.73	0.58	0.55	0.58	0.48	
22	0.49	0.47	0.72	0.55	0.66	0.87	0.91	0.69	0.58	0.55	0.56	0.48	
23	0.49	0.47	0.61	0.57	0.77	0.91	0.75	0.68	0.58	0.54	0.53	0.48	
24	0.49	0.47	0.60	0.56	0.96	2.03	0.74	0.67	0.58	0.54	0.52	0.48	
25	0.49	0.47	0.58	0.55	1.53	1.05	0.72	0.67	0.58	0.54	0.51	0.48	
26	0.49	0.47	0.56	0.55	0.93	2.31	0.71	0.67	0.58	0.54	0.51	0.48	
27	0.50	0.47	0.55	0.54	0.85	2.63	0.70	0.66	0.57	0.54	0.51	0.48	
28	0.52	0.47	0.54	0.53	0.97	1.28	0.69	0.65	0.58	0.54	0.51	0.48	
29	0.52	0.47	0.54	0.53	1.08	1.64	0.68	0.65	0.58	0.54	0.51	0.48	
30	0.72	0.47	0.57	0.54	0.94	1.19	0.67	0.65	0.58	0.53		0.48	
31		0.52		0.57	0.80		0.64		0.58	0.53		0.48	
MEAN	0.51	0.49	0.60	0.58	0.69	1.14	0.91	0.72	0.60	0.55	0.53	0.49	
MAX	0.72	0.56	0.95	0.67	1.53	2.63	1.44	0.94	0.64	0.58	0.62	0.51	2.63
MIN	0.49	0.47	0.49	0.53	0.51	0.72	0.64	0.65	0.57	0.53	0.51	0.48	0.47

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.86 M (A.D), AT 6.00 HOURS, ON SEP 27, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.12 M (A.D)
LEFT BANK ELEVATION 7.16 M (A.D)
RIGHT BANK ELEVATION 7.13 M (A.D), DRAINAGE AREA 144 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.48	0.51	0.51	0.60	1.38	4.26	1.16	0.78	0.54	0.39	0.33	
2	0.33	0.39	0.42	0.54	0.65	1.22	3.92	1.33	0.78	0.54	0.39	0.33	
3	0.33	0.36	0.33	0.54	0.60	1.55	3.59	1.33	0.78	0.54	0.39	0.33	
4	0.33	0.33	0.27	0.54	0.60	1.27	3.43	1.33	0.73	0.51	0.39	0.33	
5	0.33	0.33	0.27	0.51	0.57	1.16	3.92	1.16	0.73	0.51	0.39	0.33	
6	0.33	0.30	0.27	0.51	0.51	1.43	4.34	1.05	0.69	0.51	0.39	0.33	
7	0.33	0.30	0.36	0.51	0.51	1.66	3.19	0.92	0.69	0.51	0.36	0.33	
8	0.30	0.30	0.30	0.54	0.48	1.99	3.83	0.82	0.65	0.51	0.36	0.33	
9	0.30	0.27	0.30	0.60	0.45	2.19	4.17	0.87	0.65	0.48	0.36	0.33	
10	0.30	0.27	0.27	0.60	0.36	2.74	3.59	0.92	0.65	0.48	0.36	0.33	
11	0.30	0.27	0.27	0.60	0.36	2.53	4.09	0.96	0.60	0.48	0.36	0.33	
12	0.30	0.27	0.27	0.54	0.33	10.25	2.39	0.92	0.60	0.48	0.36	0.30	
13	0.30	0.27	0.36	0.48	0.39	4.26	2.06	1.16	0.60	0.45	0.36	0.30	
14	0.27	0.27	0.54	0.54	0.48	5.05	1.86	1.55	0.60	0.45	0.36	0.30	
15	0.27	0.27	0.87	0.60	0.42	5.59	1.66	1.93	0.60	0.45	0.36	0.30	
16	0.27	0.27	1.10	0.69	0.42	3.35	1.60	2.53	0.57	0.45	0.36	0.27	
17	0.27	0.24	1.16	0.82	0.48	2.39	1.49	2.53	0.57	0.45	0.36	0.27	
18	0.30	0.24	1.43	0.92	0.54	2.25	1.38	1.27	0.57	0.45	0.36	0.27	
19	0.27	0.24	1.27	0.78	0.57	3.27	1.27	1.33	0.57	0.45	0.69	0.27	
20	0.27	0.24	2.60	0.65	0.69	2.67	2.12	1.27	0.57	0.45	0.60	0.27	
21	0.27	0.24	2.32	0.60	0.82	2.32	6.87	1.22	0.54	0.45	0.54	0.24	
22	0.27	0.21	1.16	0.45	0.87	2.06	2.32	1.00	0.54	0.45	0.48	0.24	
23	0.27	0.21	0.65	0.51	1.43	2.32	1.33	0.96	0.54	0.42	0.39	0.24	
24	0.27	0.21	0.60	0.48	2.67	14.12	1.27	0.92	0.54	0.42	0.36	0.24	
25	0.27	0.21	0.54	0.45	7.83	3.35	1.16	0.92	0.54	0.42	0.33	0.24	
26	0.27	0.21	0.48	0.45	2.46	18.25	1.10	0.92	0.54	0.42	0.33	0.24	
27	0.30	0.21	0.45	0.42	1.93	23.41	1.05	0.87	0.51	0.42	0.33	0.24	
28	0.36	0.21	0.42	0.39	2.74	5.32	1.00	0.82	0.54	0.42	0.33	0.24	
29	0.36	0.21	0.42	0.39	3.59	9.06	0.96	0.82	0.54	0.42	0.33	0.24	
30	1.16	0.21	0.51	0.42	2.53	4.52	0.92	0.82	0.54	0.39		0.24	
31		0.36		0.51	1.60		0.78		0.54	0.39		0.24	
TOTAL	9.83	8.40	20.72	17.09	38.48	142.93	76.92	35.61	18.89	14.31	11.37	8.82	403.37 CMSDAY
MEAN	0.33	0.27	0.69	0.55	1.24	4.76	2.48	1.19	0.61	0.46	0.39	0.28	1.10 CMS
MAX	1.16	0.48	2.60	0.92	7.83	23.41	6.87	2.53	0.78	0.54	0.69	0.33	23.41 CMS
MIN	0.27	0.21	0.27	0.39	0.33	1.16	0.78	0.82	0.51	0.39	0.33	0.24	0.21 CMS
RUNOFF	0.849	0.726	1.790	1.477	3.325	12.349	6.646	3.077	1.632	1.236	0.982	0.762	34.851 MCM

MOMENTARY PEAK 27.32 CMS, AT 2.86 M (A.D), AT 6.00 HOURS, ON SEP 27, 1987

RUNOFF YIELD 7.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 189.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

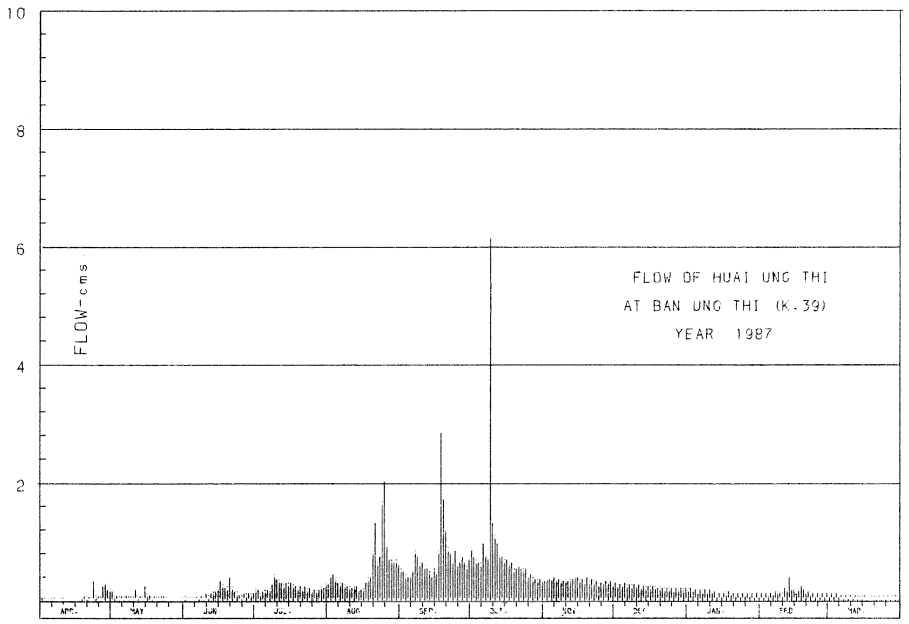
HUAI UNG THI AT BAN UNG THI, KANCHANABURI (K.29)

LOCATION	LAT. 14-42-20 N., LONG. 98-40-18 E., ON RIGHT BANK AT K.M.121+600 ON KANCHANABURI-THONG PHA PHUM HIGHWAY, AMPHOE THONG PHA PHUM, KANCHANABURI.
DRAINAGE AREA	54 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 16.00 METERS FROM THE THIRD STAFF GAGE.
ELEVATION	+2.414 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	1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1985 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1985 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.32	0.29	0.34	0.36	0.43	0.50	0.38	0.37	0.34	0.31	0.31	
2	0.26	0.30	0.27	0.33	0.41	0.42	0.47	0.40	0.36	0.34	0.31	0.31	
3	0.25	0.29	0.27	0.31	0.41	0.41	0.46	0.39	0.36	0.34	0.31	0.31	
4	0.25	0.28	0.26	0.32	0.40	0.40	0.45	0.40	0.36	0.33	0.31	0.31	
5	0.26	0.28	0.27	0.33	0.37	0.41	0.45	0.40	0.37	0.33	0.31	0.31	
6	0.26	0.29	0.27	0.33	0.37	0.42	0.51	0.40	0.36	0.33	0.32	0.30	
7	0.25	0.29	0.30	0.34	0.37	0.49	0.48	0.39	0.36	0.33	0.32	0.30	
8	0.26	0.28	0.28	0.36	0.36	0.47	0.46	0.39	0.36	0.33	0.32	0.30	
9	0.26	0.28	0.29	0.41	0.35	0.45	1.03	0.38	0.36	0.33	0.31	0.30	
10	0.26	0.28	0.31	0.39	0.35	0.45	0.56	0.39	0.36	0.33	0.31	0.30	
11	0.24	0.33	0.30	0.39	0.34	0.44	0.53	0.38	0.36	0.33	0.34	0.30	
12	0.25	0.29	0.31	0.37	0.35	0.43	0.51	0.39	0.35	0.32	0.34	0.30	
13	0.25	0.28	0.32	0.36	0.35	0.42	0.48	0.39	0.35	0.31	0.40	0.29	
14	0.25	0.28	0.32	0.37	0.34	0.40	0.47	0.41	0.35	0.31	0.35	0.29	
15	0.24	0.35	0.35	0.37	0.33	0.43	0.46	0.40	0.35	0.31	0.33	0.29	
16	0.25	0.31	0.38	0.37	0.34	0.41	0.46	0.39	0.35	0.31	0.33	0.29	
17	0.25	0.30	0.36	0.36	0.37	0.49	0.45	0.39	0.35	0.32	0.32	0.28	
18	0.30	0.28	0.34	0.35	0.40	0.74	0.45	0.38	0.35	0.32	0.37	0.27	
19	0.28	0.28	0.35	0.35	0.40	0.62	0.43	0.40	0.34	0.32	0.33	0.28	
20	0.29	0.28	0.40	0.35	0.49	0.54	0.43	0.38	0.35	0.31	0.33	0.28	
21	0.27	0.28	0.35	0.34	0.56	0.50	0.45	0.39	0.34	0.31	0.32	0.29	
22	0.27	0.28	0.32	0.35	0.45	0.48	0.43	0.38	0.34	0.31	0.32	0.29	
23	0.38	0.28	0.32	0.34	0.47	0.46	0.43	0.38	0.34	0.31	0.31	0.29	
24	0.30	0.28	0.30	0.34	0.61	0.49	0.43	0.37	0.34	0.31	0.31	0.29	
25	0.28	0.26	0.30	0.33	0.65	0.45	0.41	0.37	0.34	0.31	0.31	0.29	
26	0.28	0.26	0.31	0.33	0.51	0.45	0.41	0.38	0.34	0.31	0.31	0.29	
27	0.35	0.26	0.31	0.33	0.46	0.48	0.40	0.38	0.34	0.31	0.31	0.29	
28	0.38	0.27	0.31	0.33	0.46	0.45	0.39	0.38	0.34	0.31	0.31	0.29	
29	0.33	0.26	0.31	0.35	0.45	0.44	0.39	0.38	0.34	0.31	0.31	0.29	
30	0.34	0.26	0.31	0.34	0.46	0.46	0.39	0.37	0.34	0.31		0.29	
31		0.27		0.37	0.44		0.39		0.34	0.31		0.29	
MEAN	0.28	0.28	0.31	0.35	0.42	0.46	0.47	0.39	0.35	0.32	0.32	0.29	
MAX	0.38	0.35	0.40	0.41	0.65	0.74	1.03	0.41	0.37	0.34	0.40	0.31	1.03
MIN	0.24	0.26	0.26	0.31	0.33	0.40	0.39	0.37	0.34	0.31	0.31	0.27	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.63 M (A.D), AT 6.00 HOURS, ON OCT 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.02 M (A.D)
LEFT BANK ELEVATION 7.39 M (A.D)
RIGHT BANK ELEVATION 7.34 M (A.D), DRAINAGE AREA 54 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.060	0.160	0.090	0.220	0.280	0.550	0.900	0.340	0.310	0.220	0.130	0.130	
2	0.060	0.100	0.070	0.190	0.450	0.500	0.750	0.400	0.280	0.220	0.130	0.130	
3	0.050	0.090	0.070	0.130	0.450	0.450	0.700	0.370	0.280	0.220	0.130	0.130	
4	0.050	0.080	0.060	0.160	0.400	0.400	0.650	0.400	0.280	0.190	0.130	0.130	
5	0.060	0.080	0.070	0.190	0.310	0.450	0.650	0.400	0.310	0.190	0.130	0.130	
6	0.060	0.090	0.070	0.190	0.310	0.500	0.970	0.400	0.280	0.190	0.160	0.100	
7	0.050	0.090	0.100	0.220	0.310	0.850	0.800	0.370	0.280	0.190	0.160	0.100	
8	0.060	0.080	0.080	0.280	0.280	0.750	0.700	0.370	0.280	0.190	0.160	0.100	
9	0.060	0.080	0.090	0.450	0.250	0.650	6.170	0.340	0.280	0.190	0.130	0.100	
10	0.060	0.080	0.130	0.370	0.250	0.650	1.320	0.370	0.280	0.190	0.130	0.100	
11	0.040	0.190	0.100	0.370	0.220	0.600	1.110	0.340	0.280	0.190	0.220	0.100	
12	0.050	0.090	0.130	0.310	0.250	0.550	0.970	0.370	0.250	0.160	0.220	0.100	
13	0.050	0.080	0.160	0.280	0.250	0.500	0.800	0.370	0.250	0.130	0.400	0.090	
14	0.050	0.080	0.160	0.310	0.220	0.400	0.750	0.450	0.250	0.130	0.250	0.090	
15	0.040	0.250	0.250	0.310	0.190	0.550	0.700	0.400	0.250	0.130	0.190	0.090	
16	0.050	0.130	0.340	0.310	0.220	0.450	0.700	0.370	0.250	0.130	0.190	0.090	
17	0.050	0.100	0.280	0.280	0.310	0.850	0.650	0.370	0.250	0.160	0.160	0.080	
18	0.100	0.080	0.220	0.250	0.400	2.850	0.650	0.340	0.250	0.160	0.310	0.070	
19	0.080	0.080	0.250	0.250	0.400	1.770	0.550	0.400	0.220	0.160	0.190	0.080	
20	0.090	0.080	0.400	0.250	0.850	1.180	0.550	0.340	0.250	0.130	0.190	0.080	
21	0.070	0.080	0.250	0.220	1.320	0.900	0.650	0.370	0.220	0.130	0.160	0.090	
22	0.070	0.080	0.160	0.250	0.650	0.800	0.550	0.340	0.220	0.130	0.160	0.090	
23	0.340	0.080	0.160	0.220	0.750	0.700	0.550	0.340	0.220	0.130	0.130	0.090	
24	0.100	0.080	0.100	0.220	1.685	0.850	0.550	0.310	0.220	0.130	0.130	0.090	
25	0.080	0.060	0.100	0.190	2.025	0.650	0.450	0.310	0.220	0.130	0.130	0.090	
26	0.080	0.060	0.130	0.190	0.970	0.650	0.450	0.340	0.220	0.130	0.130	0.090	
27	0.250	0.060	0.130	0.190	0.700	0.800	0.400	0.340	0.220	0.130	0.130	0.090	
28	0.340	0.070	0.130	0.190	0.700	0.650	0.370	0.340	0.220	0.130	0.130	0.090	
29	0.190	0.060	0.130	0.250	0.650	0.600	0.370	0.340	0.220	0.130	0.130	0.090	
30	0.220	0.060	0.130	0.220	0.700	0.700	0.370	0.310	0.220	0.130		0.090	
31		0.070		0.310	0.600		0.370		0.220	0.130		0.090	
TOTAL	2.910	2.850	4.540	7.770	17.350	22.750	26.120	10.850	7.780	4.900	4.940	3.010	115.770 CMSDAY
MEAN	0.097	0.092	0.151	0.251	0.560	0.758	0.843	0.362	0.251	0.158	0.170	0.097	0.316 CMS
MAX	0.340	0.250	0.400	0.450	2.025	2.850	6.170	0.450	0.310	0.220	0.400	0.130	6.170 CMS
MIN	0.040	0.060	0.060	0.130	0.190	0.400	0.370	0.310	0.220	0.130	0.130	0.070	0.040 CMS
RUNOFF	0.251	0.246	0.392	0.671	1.499	1.966	2.257	0.937	0.672	0.423	0.427	0.260	10.003 MCM

MOMENTARY PEAK 17.24 CMS, AT 1.63 M (A.D), AT 6.00 HOURS, ON OCT 9, 1987

RUNOFF YIELD 5.86 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 319.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

MAE KLONG RIVER BASIN

HUAI DISO AT BAN HIN LAEM, KANCHANABURI (K.50)

LOCATION — LAT. 14°38'39" N., LONG. 98°42'04" E., ON RIGHT BANK AT THE BRIDGE ON KANCHANABURI-THONG PHA PHUM HIGHWAY, TAMBON THA KHANUN, AMPHOE THONG PHA PHUM, KANCHANABURI.

DRAINAGE AREA — 101 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +4.837 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 — 1986 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

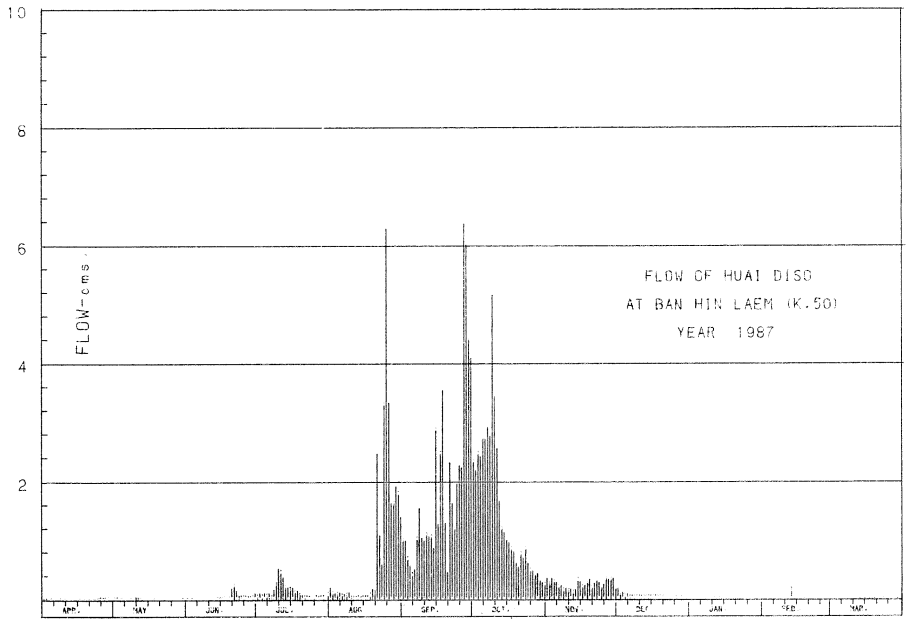
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.25	0.20	0.31	0.39	0.74	1.07	0.48	0.38	0.24	0.20	0.18	
2	0.20	0.24	0.21	0.32	0.35	0.73	1.03	0.45	0.35	0.24	0.20	0.18	
3	0.20	0.24	0.21	0.31	0.32	0.64	1.10	0.48	0.33	0.24	0.21	0.18	
4	0.20	0.23	0.21	0.32	0.34	0.58	1.08	0.47	0.32	0.23	0.21	0.18	
5	0.20	0.23	0.22	0.32	0.33	0.53	1.15	0.44	0.31	0.23	0.21	0.18	
6	0.20	0.22	0.21	0.32	0.32	0.55	1.14	0.42	0.29	0.23	0.21	0.18	
7	0.20	0.23	0.21	0.30	0.31	0.75	1.19	0.41	0.29	0.23	0.21	0.19	
8	0.20	0.22	0.21	0.36	0.33	0.88	1.15	0.39	0.30	0.22	0.21	0.20	
9	0.20	0.21	0.22	0.45	0.33	0.76	1.58	0.38	0.30	0.22	0.21	0.19	
10	0.20	0.32	0.21	0.56	0.28	0.73	1.28	0.38	0.29	0.22	0.21	0.19	
11	0.19	0.24	0.21	0.55	0.28	0.77	1.12	0.37	0.29	0.22	0.20	0.19	
12	0.19	0.23	0.21	0.49	0.27	0.75	0.91	0.36	0.29	0.22	0.21	0.19	
13	0.19	0.22	0.23	0.42	0.29	0.76	0.80	0.36	0.29	0.22	0.39	0.19	
14	0.19	0.22	0.24	0.39	0.27	0.69	0.77	0.49	0.29	0.22	0.24	0.19	
15	0.19	0.22	0.23	0.40	0.29	1.18	0.75	0.45	0.29	0.22	0.21	0.19	
16	0.19	0.21	0.24	0.39	0.29	0.81	0.72	0.42	0.29	0.22	0.20	0.19	
17	0.19	0.21	0.26	0.36	0.29	1.10	0.70	0.41	0.29	0.22	0.20	0.19	
18	0.19	0.20	0.25	0.35	0.33	1.30	0.67	0.47	0.29	0.22	0.20	0.19	
19	0.19	0.20	0.26	0.33	0.37	0.83	0.62	0.47	0.28	0.21	0.21	0.19	
20	0.19	0.20	0.38	0.30	0.36	0.53	0.57	0.41	0.28	0.21	0.21	0.19	
21	0.19	0.20	0.44	0.29	1.09	1.07	0.67	0.43	0.26	0.21	0.20	0.19	
22	0.19	0.21	0.35	0.29	0.77	0.90	0.63	0.49	0.26	0.21	0.20	0.19	
23	0.19	0.21	0.28	0.28	0.59	0.80	0.70	0.44	0.26	0.21	0.20	0.19	
24	0.21	0.21	0.30	0.24	1.26	0.98	0.60	0.41	0.26	0.21	0.19	0.19	
25	0.24	0.21	0.30	0.28	1.74	1.06	0.56	0.42	0.26	0.21	0.19	0.19	
26	0.23	0.21	0.29	0.30	1.27	1.04	0.54	0.50	0.26	0.21	0.19	0.19	
27	0.24	0.20	0.27	0.28	0.90	1.76	0.53	0.47	0.26	0.21	0.18	0.19	
28	0.25	0.20	0.27	0.30	0.91	1.70	0.52	0.49	0.26	0.21	0.18	0.19	
29	0.22	0.21	0.30	0.30	0.97	1.46	0.49	0.48	0.26	0.20	0.18	0.19	
30	0.22	0.21	0.32	0.28	0.95	1.40	0.44	0.41	0.25	0.20		0.19	
31		0.21		0.34	0.84		0.44		0.25	0.20		0.19	
MEAN	0.20	0.22	0.26	0.35	0.57	0.93	0.82	0.43	0.29	0.22	0.21	0.19	
MAX	0.25	0.32	0.44	0.56	1.74	1.76	1.58	0.50	0.38	0.24	0.39	0.20	1.76
MIN	0.19	0.20	0.20	0.24	0.27	0.53	0.44	0.36	0.25	0.20	0.18	0.18	0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.79 M (A.D), AT 12.00 HOURS, ON SEP 27, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.15 M (A.D)

LEFT BANK ELEVATION — 3.58 M (A.D)

RIGHT BANK ELEVATION — 3.58 M (A.D), DRAINAGE AREA — 101 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.030	0.055	0.030	0.094	0.206	1.036	2.379	0.364	0.192	0.050	0.030	0.018	
2	0.030	0.050	0.035	0.108	0.150	1.002	2.191	0.310	0.150	0.050	0.030	0.018	
3	0.030	0.050	0.035	0.094	0.108	0.732	2.520	0.364	0.122	0.050	0.035	0.018	
4	0.030	0.045	0.035	0.108	0.136	0.576	2.426	0.346	0.108	0.045	0.035	0.018	
5	0.030	0.045	0.040	0.108	0.122	0.466	2.770	0.292	0.094	0.045	0.035	0.018	
6	0.030	0.040	0.035	0.108	0.108	0.510	2.720	0.256	0.075	0.045	0.035	0.018	
7	0.030	0.045	0.035	0.080	0.094	1.070	2.970	0.238	0.075	0.045	0.035	0.024	
8	0.030	0.040	0.035	0.164	0.122	1.552	2.770	0.206	0.080	0.040	0.035	0.030	
9	0.030	0.035	0.040	0.310	0.122	1.104	5.220	0.192	0.080	0.040	0.035	0.024	
10	0.030	0.108	0.035	0.532	0.070	1.002	3.444	0.192	0.075	0.040	0.035	0.024	
11	0.024	0.050	0.035	0.510	0.070	1.138	2.620	0.178	0.075	0.040	0.030	0.024	
12	0.024	0.045	0.035	0.382	0.065	1.070	1.672	0.164	0.075	0.040	0.035	0.024	
13	0.024	0.040	0.045	0.256	0.075	1.104	1.240	0.164	0.075	0.040	0.206	0.024	
14	0.024	0.040	0.050	0.206	0.065	0.872	1.138	0.382	0.075	0.040	0.050	0.024	
15	0.024	0.040	0.045	0.220	0.075	2.920	1.070	0.310	0.075	0.040	0.035	0.024	
16	0.024	0.035	0.050	0.206	0.075	1.279	0.968	0.256	0.075	0.040	0.030	0.024	
17	0.024	0.035	0.060	0.164	0.075	2.520	0.900	0.238	0.075	0.040	0.030	0.024	
18	0.024	0.030	0.055	0.150	0.122	3.550	0.816	0.346	0.075	0.040	0.030	0.024	
19	0.024	0.030	0.060	0.122	0.178	1.357	0.676	0.346	0.070	0.035	0.035	0.024	
20	0.024	0.030	0.192	0.080	0.164	0.466	0.554	0.238	0.070	0.035	0.035	0.024	
21	0.024	0.030	0.292	0.075	2.473	2.379	0.816	0.274	0.060	0.035	0.030	0.024	
22	0.024	0.035	0.150	0.075	1.138	1.630	0.704	0.382	0.060	0.035	0.030	0.024	
23	0.024	0.035	0.070	0.070	0.598	1.240	0.900	0.292	0.060	0.035	0.030	0.024	
24	0.035	0.035	0.080	0.050	3.338	1.966	0.620	0.238	0.060	0.035	0.024	0.024	
25	0.050	0.035	0.080	0.070	6.292	2.332	0.532	0.256	0.060	0.035	0.024	0.024	
26	0.045	0.035	0.075	0.080	3.391	2.238	0.488	0.400	0.060	0.035	0.024	0.024	
27	0.050	0.030	0.065	0.070	1.630	6.428	0.466	0.346	0.060	0.035	0.018	0.024	
28	0.055	0.030	0.065	0.080	1.672	6.020	0.444	0.382	0.060	0.035	0.018	0.024	
29	0.040	0.035	0.080	0.080	1.924	4.460	0.382	0.364	0.060	0.030	0.018	0.024	
30	0.040	0.035	0.108	0.070	1.840	4.100	0.292	0.238	0.055	0.030		0.024	
31		0.035		0.136	1.396		0.292		0.055	0.030		0.024	
TOTAL	0.927	1.258	2.047	4.858	27.894	58.119	47.000	8.554	2.441	1.210	1.072	0.714	156.094 CMSDAY
MEAN	0.031	0.041	0.068	0.157	0.900	1.937	1.516	0.285	0.079	0.039	0.037	0.023	0.426 CMS
MAX	0.055	0.108	0.292	0.532	6.292	6.428	5.220	0.400	0.192	0.050	0.206	0.030	6.428 CMS
MIN	0.024	0.030	0.030	0.050	0.065	0.466	0.292	0.164	0.055	0.030	0.018	0.018	0.018 CMS
RUNOFF	0.080	0.109	0.177	0.420	2.410	5.021	4.061	0.739	0.211	0.105	0.093	0.062	13.487 MCM

MOMENTARY PEAK 6.63 CMS, AT 1.79 M (A.D), AT 12.00 HOURS, ON SEP 27, 1987

RUNOFF YIELD 4.22 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 65.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PHETCHABURI RIVER BASIN

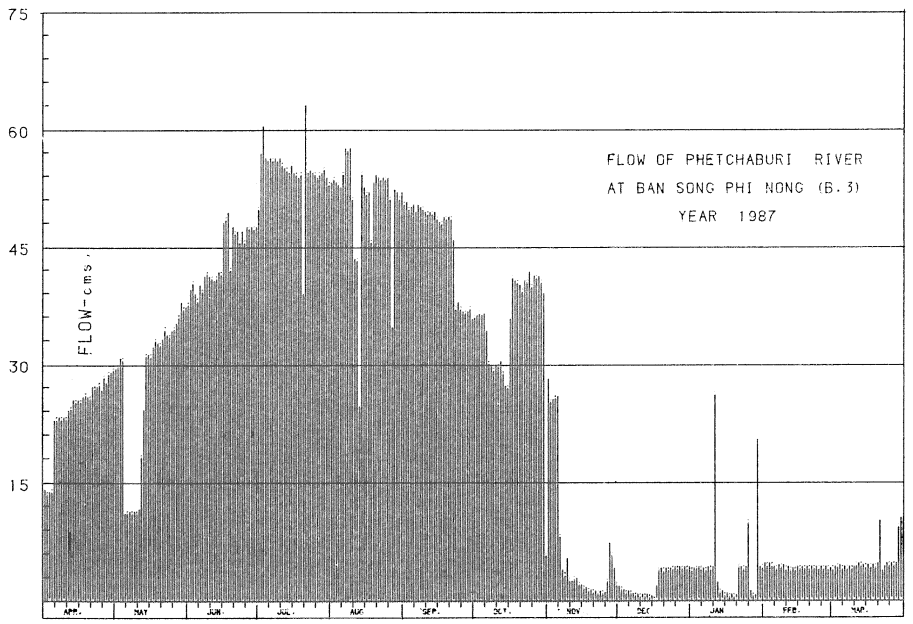
PHETCHABURI RIVER AT BAN SONG PHI NONG, PHETCHABURI (B.3)

LOCATION	LAT. 12°-52'-04" N., LONG. 99°-40'-40" E., ON LEFT BANK AT BAN SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	2,244 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+41.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP STAFF GAGE.
ELEVATION	+50.534 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 - 1942, 1954 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	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR.FLOW REGULATED BY KAENG KRACHAN RESERVOIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	42.26	42.65	42.82	43.03	43.08	43.04	42.79	42.62	41.76	41.89	41.92	41.90	
2	42.25	42.66	42.85	43.14	43.09	43.04	42.79	42.56	41.75	41.89	41.92	41.90	
3	42.25	42.68	42.87	43.20	43.08	43.03	42.80	42.56	41.73	41.90	41.92	41.91	
4	42.26	42.68	42.84	43.13	43.08	43.03	42.79	42.57	41.72	41.90	41.92	41.91	
5	42.50	42.16	42.83	43.13	43.07	43.04	42.80	42.57	41.72	41.90	41.90	41.90	
6	42.51	42.17	42.86	43.13	43.10	43.02	42.75	42.07	41.72	41.89	41.90	41.90	
7	42.51	42.17	42.85	43.13	43.15	43.04	42.67	41.88	41.70	41.89	41.91	41.90	
8	42.51	42.17	42.88	43.13	43.15	43.03	42.66	41.86	41.70	41.90	41.91	41.90	
9	42.51	42.17	42.89	43.13	43.15	43.03	42.65	41.95	41.69	41.90	41.91	41.90	
10	42.51	42.17	42.88	43.13	43.05	43.02	42.66	41.82	41.69	41.90	41.90	41.90	
11	42.53	42.18	42.88	43.12	42.92	43.02	42.66	41.80	41.69	42.58	41.90	41.92	
12	42.54	42.38	42.87	43.11	42.92	43.02	42.67	41.83	41.69	41.79	41.89	41.92	
13	42.56	42.53	42.88	43.11	42.54	43.02	42.64	41.82	41.69	41.73	41.89	41.92	
14	42.56	42.69	42.89	43.10	43.10	43.02	42.60	41.79	41.68	41.72	41.89	41.91	
15	42.56	42.69	42.89	43.12	43.07	43.01	42.60	41.77	41.67	41.70	41.90	41.91	
16	42.56	42.69	43.00	43.10	43.06	43.00	42.78	41.76	41.65	41.70	41.90	41.91	
17	42.57	42.71	43.01	43.10	43.06	43.00	42.88	41.75	41.76	41.69	41.90	41.91	
18	42.58	42.73	43.02	43.09	42.96	43.01	42.87	41.74	41.89	41.69	41.90	41.91	
19	42.57	42.72	42.90	43.10	43.08	43.01	42.87	41.73	41.89	41.69	41.90	41.91	
20	42.57	42.72	42.99	42.84	43.10	43.01	42.86	41.73	41.89	41.68	41.90	41.92	
21	42.60	42.73	42.98	43.24	43.09	43.01	42.85	41.72	41.89	41.91	41.90	42.14	
22	42.60	42.76	42.98	43.10	43.09	42.96	42.87	41.72	41.89	41.90	41.90	41.87	
23	42.60	42.74	42.96	43.11	43.09	42.81	42.87	41.72	41.89	41.90	41.90	41.92	
24	42.61	42.74	42.98	43.10	43.09	42.82	42.89	41.72	41.90	41.90	41.90	41.92	
25	42.59	42.75	42.96	43.10	43.09	42.81	42.86	41.71	41.90	42.13	41.90	41.92	
26	42.63	42.76	42.99	43.09	43.05	42.80	42.88	41.81	41.90	41.72	41.90	41.92	
27	42.61	42.77	42.99	43.10	42.76	42.80	42.88	42.03	41.90	41.70	41.90	41.92	
28	42.64	42.79	42.99	43.10	43.07	42.80	42.88	41.98	41.90	41.68	41.90	41.92	
29	42.64	42.82	42.99	43.11	43.06	42.81	42.87	41.89	41.90	42.43	41.89	42.11	
30	42.65	42.81	42.99	43.09	43.05	42.78	42.84	41.79	41.90	41.90		42.14	
31		42.81		43.08	43.06		41.98		41.90	41.91		42.14	
MEAN	42.53	42.59	42.92	43.11	43.04	42.96	42.76	41.94	41.79	41.87	41.90	41.94	
MAX	42.65	42.82	43.02	43.24	43.15	43.04	42.89	42.62	41.90	42.58	41.92	42.14	43.24
MIN	42.25	42.16	42.82	42.84	42.54	42.78	41.98	41.71	41.65	41.68	41.89	41.87	41.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 43.25 M (MSL), AT 6.00 HOURS, ON JUL 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 41.00 M (MSL), RIVER BED 40.14 M (MSL)
LEFT BANK ELEVATION 48.70 M (MSL)
RIGHT BANK ELEVATION 48.70 M (MSL), DRAINAGE AREA 2244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	14.22	29.55	37.92	50.09	53.24	50.72	36.30	28.20	1.96	4.22	4.84	4.40	
2	13.90	30.00	39.60	57.02	53.87	50.72	36.30	25.58	1.80	4.22	4.84	4.40	
3	13.90	30.90	40.72	60.80	53.24	50.09	36.80	25.58	1.48	4.40	4.84	4.62	
4	14.22	30.90	39.04	56.39	53.24	50.09	36.30	26.01	1.32	4.40	4.84	4.62	
5	23.00	11.14	38.48	56.39	52.61	50.72	36.80	26.01	1.32	4.40	4.40	4.40	
6	23.43	11.43	40.16	56.39	54.50	49.46	34.30	8.56	1.32	4.22	4.40	4.40	
7	23.43	11.43	39.60	56.39	57.65	50.72	30.45	4.04	1.00	4.22	4.62	4.40	
8	23.43	11.43	41.28	56.39	57.65	50.09	30.00	3.68	1.00	4.40	4.62	4.40	
9	23.43	11.43	41.84	56.39	57.65	50.09	29.55	5.50	0.90	4.40	4.62	4.40	
10	23.43	11.43	41.28	56.39	51.35	49.46	30.00	2.96	0.90	4.40	4.40	4.40	
11	24.29	11.72	41.28	55.76	43.56	49.46	30.00	2.60	0.90	26.44	4.40	4.84	
12	24.72	18.46	40.72	55.13	43.56	49.46	30.45	3.14	0.90	2.44	4.22	4.84	
13	25.58	24.29	41.28	55.13	24.72	49.46	29.10	2.96	0.90	1.48	4.22	4.84	
14	25.58	31.35	41.84	54.50	54.50	49.46	27.30	2.44	0.80	1.32	4.22	4.62	
15	25.58	31.35	41.84	55.76	52.61	48.83	27.30	2.12	0.70	1.00	4.40	4.62	
16	25.58	31.35	48.20	54.50	51.98	48.20	35.80	1.96	0.50	1.00	4.40	4.62	
17	26.01	32.30	48.83	54.50	51.98	48.20	41.28	1.80	1.96	0.90	4.40	4.62	
18	26.44	33.30	49.46	53.87	45.88	48.83	40.72	1.64	4.22	0.90	4.40	4.62	
19	26.01	32.80	42.40	54.50	53.24	48.83	40.72	1.48	4.22	0.90	4.40	4.62	
20	26.01	32.80	47.62	39.04	54.50	48.83	40.16	1.48	4.22	0.80	4.40	4.84	
21	27.30	33.30	47.04	63.44	53.87	48.83	39.60	1.32	4.22	4.62	4.40	10.56	
22	27.30	34.80	47.04	54.50	53.87	45.88	40.72	1.32	4.22	4.40	4.40	3.86	
23	27.30	33.80	45.88	55.13	53.87	37.36	40.72	1.32	4.22	4.40	4.40	4.84	
24	27.75	33.80	47.04	54.50	53.87	37.92	41.84	1.32	4.40	4.40	4.40	4.84	
25	26.87	34.30	45.88	54.50	53.87	37.36	40.16	1.16	4.40	10.27	4.40	4.84	
26	28.65	34.80	47.62	53.87	51.35	36.80	41.28	2.78	4.40	1.32	4.40	4.84	
27	27.75	35.30	47.62	54.50	34.80	36.80	41.28	7.44	4.40	1.00	4.40	4.84	
28	29.10	36.30	47.62	54.50	52.61	36.80	41.28	6.16	4.40	0.80	4.40	4.84	
29	29.10	37.92	47.62	55.13	51.98	37.36	40.72	4.22	4.40	20.34	4.22	9.69	
30	29.55	37.36	47.62	53.87	51.35	35.80	39.04	2.44	4.40	4.40		10.56	
31		37.36		53.24	51.98		6.16		4.40	4.62		10.56	
TOTAL	732.86	858.40	1314.37	1702.51	1584.95	1382.63	1092.43	207.22	80.18	141.03	129.30	165.79	9391.67 CMSDAY
MEAN	24.43	27.69	43.81	54.92	51.13	46.09	35.24	6.91	2.59	4.55	4.46	5.35	25.66 CMS
MAX	29.55	37.92	49.46	63.44	57.65	50.72	41.84	28.20	4.40	26.44	4.84	10.56	63.44 CMS
MIN	13.90	11.14	37.92	39.04	24.72	35.80	6.16	1.16	0.50	0.80	4.22	3.86	0.50 CMS
RUNOFF	63.319	74.166	113.562	147.097	136.940	119.459	94.386	17.904	6.928	12.185	11.172	14.324	811.440 MCM

MOMENTARY PEAK 64.10 CMS, AT 43.25 M (MSL), AT 6.00 HOURS, ON JUL 21, 1987
RUNOFF YIELD 11.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 28.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PHETCHABURI RIVER BASIN

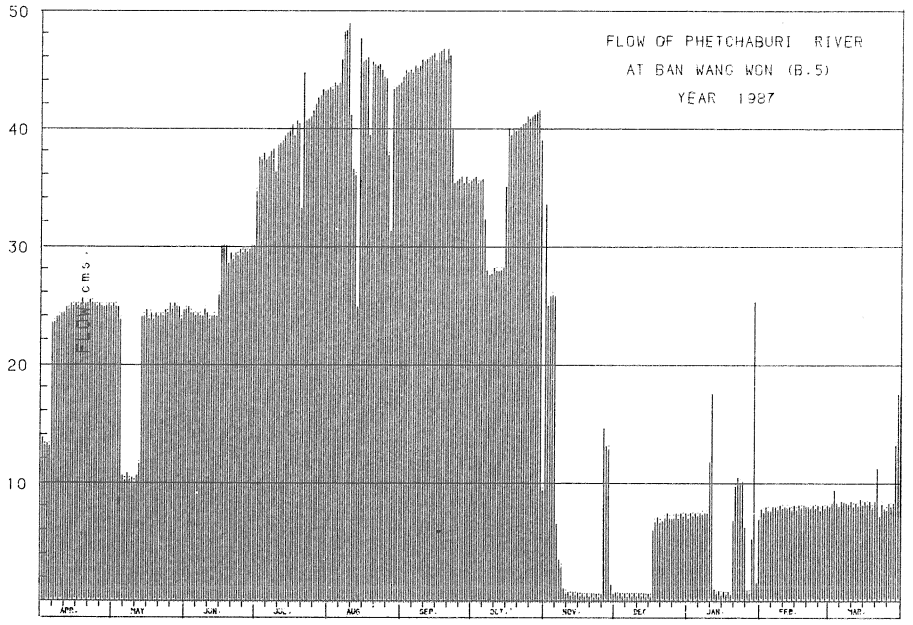
PHETCHABURI RIVER AT BAN WANG WON, PHETCHABURI (B.5)

LOCATION	LAT. 12°-54'-40" N., LONG. 99°-38'-38" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM KAENG KRACHAN RESERVOIR, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	2,207 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+48.48 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	BEHIND THE 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	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	48.67	49.11	49.10	49.42	49.67	49.70	49.45	49.38	47.73	48.32	48.35	48.38	
2	48.65	49.11	49.10	49.50	49.67	49.71	49.45	49.11	47.73	48.33	48.35	48.38	
3	48.65	49.10	49.09	49.50	49.68	49.71	49.44	49.13	47.72	48.33	48.36	48.46	
4	48.65	49.07	49.08	49.51	49.68	49.71	49.44	49.14	47.72	48.33	48.36	48.38	
5	49.05	48.52	49.08	49.50	49.68	49.71	49.45	49.13	47.72	48.33	48.34	48.38	
6	49.06	48.51	49.08	49.50	49.74	49.72	49.34	48.29	47.72	48.33	48.38	48.39	
7	49.07	48.53	49.08	49.52	49.80	49.72	49.21	48.05	47.72	48.34	48.36	48.40	
8	49.08	48.51	49.07	49.52	49.81	49.72	49.19	48.02	47.72	48.33	48.36	48.38	
9	49.08	48.51	49.10	49.47	49.82	49.74	49.20	47.79	47.72	48.34	48.37	48.39	
10	49.09	48.50	49.08	49.53	49.61	49.73	49.21	47.77	47.72	48.58	48.37	48.39	
11	49.10	48.52	49.07	49.54	49.47	49.74	49.21	47.74	47.72	48.83	48.36	48.38	
12	49.10	48.58	49.07	49.54	49.46	49.74	49.20	47.74	47.72	47.77	48.37	48.38	
13	49.11	49.07	49.08	49.56	49.10	49.75	49.21	47.74	47.72	47.76	48.36	48.38	
14	49.11	49.08	49.07	49.56	49.79	49.75	49.21	47.74	47.71	47.75	48.36	48.40	
15	49.11	49.09	49.14	49.57	49.73	49.74	49.43	47.73	47.71	47.74	48.37	48.39	
16	49.11	49.07	49.27	49.58	49.74	49.75	49.57	47.73	47.71	47.74	48.36	48.39	
17	49.11	49.08	49.27	49.56	49.74	49.76	49.56	47.72	48.24	47.74	48.37	48.39	
18	49.11	49.07	49.27	49.59	49.56	49.76	49.57	47.72	48.30	47.74	48.37	48.39	
19	49.11	49.08	49.23	49.59	49.73	49.74	49.57	47.72	48.31	47.74	48.37	48.37	
20	49.12	49.08	49.25	49.37	49.73	49.76	49.57	47.72	48.30	48.29	48.38	48.39	
21	49.12	49.08	49.24	49.71	49.72	49.75	49.58	47.72	48.29	48.48	48.36	48.56	
22	49.12	49.08	49.25	49.59	49.73	49.57	49.58	47.71	48.32	48.51	48.37	48.31	
23	49.11	49.09	49.25	49.60	49.71	49.44	49.59	47.71	48.33	48.50	48.37	48.39	
24	49.11	49.09	49.26	49.60	49.70	49.44	49.60	47.71	48.32	48.49	48.37	48.35	
25	49.11	49.11	49.26	49.62	49.69	49.45	49.60	47.71	48.30	48.27	48.37	48.36	
26	49.11	49.10	49.26	49.63	49.51	49.45	49.60	48.71	48.32	47.76	48.36	48.38	
27	49.10	49.11	49.26	49.65	49.31	49.44	49.61	48.64	48.33	47.76	48.37	48.38	
28	49.11	49.11	49.26	49.65	49.67	49.45	49.61	48.64	48.32	48.19	48.37	48.38	
29	49.11	49.10	49.27	49.67	49.67	49.44	49.62	47.83	48.33	49.12	48.37	48.65	
30	49.11	49.07	49.27	49.66	49.68	49.44	49.54	47.76	48.33	47.85		48.82	
31		49.09		49.67	49.68		48.46		48.33	48.31		48.82	
MEAN	49.04	48.94	49.17	49.56	49.65	49.65	49.42	48.11	48.01	48.19	48.36	48.43	
MAX	49.12	49.11	49.27	49.71	49.82	49.76	49.62	49.38	48.33	49.12	48.38	48.82	49.82
MIN	48.65	48.50	49.07	49.37	49.10	49.44	48.46	47.71	47.71	47.74	48.34	48.31	47.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 49.83 M (MSL), AT 9.00 HOURS, ON AUG 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 48.48 M (MSL), RIVER BED 47.33 M (MSL)
LEFT BANK ELEVATION 57.29 M (MSL)
RIGHT BANK ELEVATION 54.14 M (MSL), DRAINAGE AREA 2207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.88	25.20	24.90	34.88	43.52	44.60	35.90	33.56	0.78	7.32	7.80	8.28	
2	13.40	25.20	24.90	37.60	43.52	44.96	35.90	25.20	0.78	7.48	7.80	8.28	
3	13.40	24.90	24.63	37.60	43.88	44.96	35.56	25.80	0.72	7.48	7.96	9.62	
4	13.40	24.09	24.36	37.94	43.88	44.96	35.56	26.10	0.72	7.48	7.96	8.28	
5	23.55	10.68	24.36	37.60	43.88	44.96	35.90	25.80	0.72	7.48	7.64	8.28	
6	23.82	10.49	24.36	37.60	46.04	45.32	32.28	6.84	0.72	7.48	8.28	8.44	
7	24.09	10.87	24.36	38.28	48.20	45.32	28.21	3.60	0.72	7.64	7.96	8.60	
8	24.36	10.49	24.09	38.28	48.56	45.32	27.60	3.24	0.72	7.48	7.96	8.28	
9	24.36	10.49	24.90	36.58	48.92	46.04	27.90	1.14	0.72	7.64	8.12	8.44	
10	24.63	10.30	24.36	38.62	41.36	45.68	28.21	1.02	0.72	11.82	8.12	8.44	
11	24.90	10.68	24.09	38.96	36.58	46.04	28.21	0.84	0.72	17.78	7.96	8.28	
12	24.90	11.82	24.09	38.96	36.24	46.04	27.90	0.84	0.72	1.02	8.12	8.28	
13	25.20	24.09	24.36	39.64	24.90	46.40	28.21	0.84	0.72	0.96	7.96	8.28	
14	25.20	24.36	24.09	39.64	47.84	46.40	28.21	0.84	0.66	0.90	7.96	8.60	
15	25.20	24.63	26.10	39.98	45.68	46.04	35.22	0.78	0.66	0.84	8.12	8.44	
16	25.20	24.09	30.07	40.32	46.04	46.40	39.98	0.78	0.66	0.84	7.96	8.44	
17	25.20	24.36	30.07	39.64	46.04	46.76	39.64	0.72	6.04	0.84	8.12	8.44	
18	25.20	24.09	30.07	40.66	39.64	46.76	39.98	0.72	7.00	0.84	8.12	8.44	
19	25.20	24.36	28.83	40.66	45.68	46.04	39.98	0.72	7.16	0.84	8.12	8.12	
20	25.50	24.36	29.45	33.24	45.68	46.76	39.98	0.72	7.00	6.84	8.28	8.44	
21	25.50	24.36	29.14	44.96	45.32	46.40	40.32	0.72	6.84	9.96	7.96	11.44	
22	25.50	24.36	29:45	40.66	45.68	39.98	40.32	0.66	7.32	10.49	8.12	7.16	
23	25.20	24.63	29.45	41.00	44.96	35.56	40.66	0.66	7.48	10.30	8.12	8.44	
24	25.20	24.63	29.76	41.00	44.60	35.56	41.00	0.66	7.32	10.13	8.12	7.80	
25	25.20	25.20	29.76	41.72	44.24	35.90	41.00	0.66	7.00	6.52	8.12	7.96	
26	25.20	24.90	29.76	42.08	37.94	35.90	41.00	14.84	7.32	0.96	7.96	8.28	
27	24.90	25.20	29.76	42.80	31.32	35.56	41.36	13.16	7.48	0.96	8.12	8.28	
28	25.20	25.20	29.76	42.80	43.52	35.90	41.36	13.16	7.32	5.28	8.12	8.28	
29	25.20	24.90	30.07	43.52	43.52	35.56	41.72	1.44	7.48	25.50	8.12	13.40	
30	25.20	24.09	30.07	43.16	43.88	35.56	38.96	0.96	7.48	1.60		17.52	
31		24.63		43.52	43.88		9.62		7.48	7.16		17.52	
TOTAL	702.89	651.65	813.42	1233.90	1334.94	1287.64	1087.65	207.02	119.18	199.86	233.08	284.78	8156.01 CMSDAY
MEAN	23.43	21.02	27.11	39.80	43.06	42.92	35.09	6.90	3.84	6.45	8.04	9.19	22.28 CMS
MAX	25.50	25.20	30.07	44.96	48.92	46.76	41.72	33.56	7.48	25.50	8.28	17.52	48.92 CMS
MIN	13.40	10.30	24.09	33.24	24.90	35.56	9.62	0.66	0.66	0.84	7.64	7.16	0.66 CMS
RUNOFF	60.730	56.303	70.279	106.609	115.339	111.252	93.973	17.887	10.297	17.268	20.138	24.605	704.679 MCM

MOMENTARY PEAK 49.28 CMS, AT 49.83 M (MSL), AT 9.00 HOURS, ON AUG 10, 1987

RUNOFF YIELD 10.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 22.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PHETCHABURI RIVER BASIN

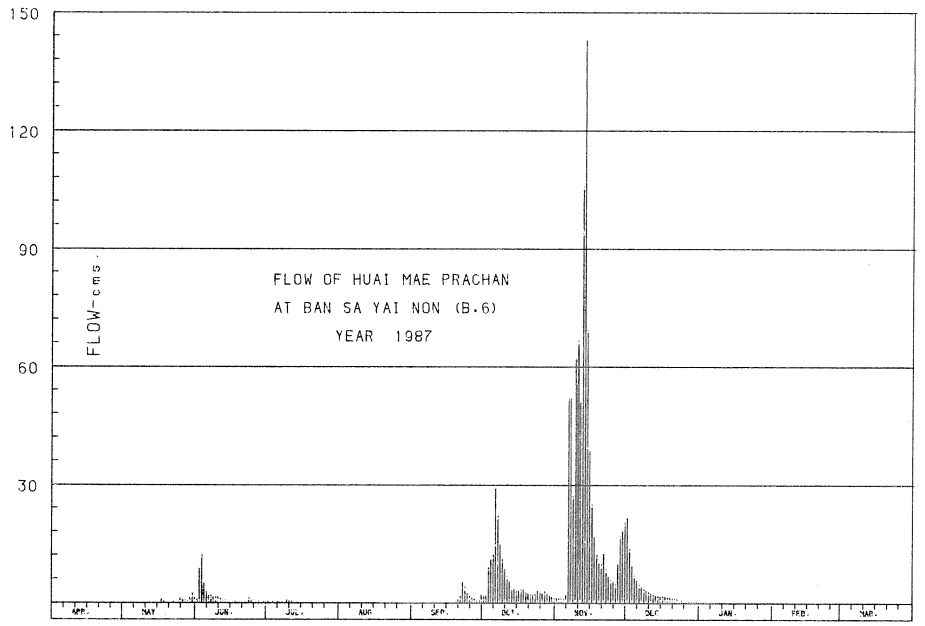
HUAI MAE PRACHAN AT BAN SA YAI NON, PHETCHABURI (B.6)

LOCATION	LAT. 12°-55'-56" N., LONG. 99°-47'-05" E., ON LEFT BANK ABOUT 250 METERS UPSTREAM FROM THE BRIDGE OF KHUAN PHET-KAENG KRACHAN RESERVOIR ROAD, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	1,015 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDERS.
ZERO GAGE AT BOTTOM	+22.711 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+33.033 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 - 1962, 1964 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1961 - 1962, 1964 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 72 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	23.07	23.03	23.35	23.25	23.08	23.08	23.44	23.39	24.42	23.26	23.12	23.06	
2	23.07	23.03	23.95	23.26	23.07	23.08	23.47	23.39	24.16	23.26	23.11	23.05	
3	23.07	23.02	24.10	23.26	23.16	23.08	23.96	23.38	23.98	23.24	23.11	23.05	
4	23.06	23.02	23.73	23.25	23.14	23.08	24.05	23.36	23.86	23.23	23.11	23.04	
5	23.06	23.02	23.56	23.25	23.14	23.08	24.10	23.49	23.78	23.23	23.10	23.03	
6	23.06	23.02	23.47	23.24	23.13	23.08	24.64	25.14	23.71	23.22	23.10	23.03	
7	23.06	23.01	23.49	23.23	23.13	23.08	24.44	25.14	23.66	23.22	23.10	23.03	
8	23.06	23.01	23.43	23.21	23.13	23.09	24.20	24.59	23.62	23.21	23.10	23.03	
9	23.06	23.01	23.43	23.35	23.12	23.09	24.05	25.31	23.59	23.21	23.10	23.03	
10	23.06	23.01	23.43	23.31	23.10	23.09	23.94	25.38	23.56	23.21	23.10	23.03	
11	23.05	23.00	23.38	23.28	23.09	23.09	23.85	25.12	23.53	23.21	23.10	23.02	
12	23.05	23.00	23.35	23.26	23.08	23.10	23.76	25.85	23.50	23.21	23.10	23.02	
13	23.05	22.99	23.33	23.23	23.09	23.10	23.68	26.18	23.47	23.21	23.10	23.01	
14	23.05	22.99	23.32	23.20	23.10	23.10	23.62	25.42	23.46	23.20	23.09	23.01	
15	23.05	22.99	23.31	23.16	23.10	23.08	23.57	24.87	23.45	23.16	23.10	23.01	
16	23.05	22.99	23.30	23.13	23.10	23.08	23.59	24.53	23.45	23.13	23.10	23.01	
17	23.04	23.35	23.30	23.10	23.10	23.08	23.62	24.27	23.44	23.13	23.10	23.01	
18	23.04	23.25	23.29	23.08	23.12	23.08	23.61	24.10	23.41	23.13	23.10	23.01	
19	23.04	23.20	23.28	23.07	23.15	23.23	23.55	24.01	23.40	23.15	23.10	23.01	
20	23.06	23.17	23.26	23.06	23.14	23.34	23.52	24.00	23.39	23.16	23.10	23.01	
21	23.04	23.27	23.27	23.07	23.10	23.45	23.51	24.11	23.38	23.16	23.10	23.01	
22	23.04	23.26	23.31	23.07	23.09	23.75	23.50	23.94	23.36	23.15	23.09	23.00	
23	23.04	23.27	23.41	23.05	23.09	23.67	23.51	23.84	23.34	23.14	23.09	23.00	
24	23.04	23.28	23.35	23.04	23.09	23.53	23.58	23.78	23.33	23.14	23.09	23.00	
25	23.04	23.39	23.34	23.03	23.09	23.46	23.55	23.76	23.32	23.14	23.09	22.99	
26	23.03	23.33	23.32	23.02	23.09	23.40	23.52	23.72	23.31	23.14	23.08	22.99	
27	23.03	23.33	23.30	23.02	23.08	23.36	23.57	24.00	23.30	23.14	23.07	22.98	
28	23.03	23.32	23.27	23.01	23.08	23.34	23.52	24.28	23.28	23.13	23.07	22.97	
29	23.03	23.41	23.25	23.01	23.08	23.33	23.46	24.32	23.28	23.13	23.07	22.97	
30	23.03	23.53	23.25	23.19	23.08	23.50	23.43	24.39	23.28	23.12		22.97	
31		23.41		23.12	23.08		23.41		23.27	23.12		22.96	
MEAN	23.05	23.16	23.40	23.16	23.10	23.23	23.72	24.37	23.53	23.18	23.10	23.01	
MAX	23.07	23.53	24.10	23.35	23.16	23.75	24.64	26.18	24.42	23.26	23.12	23.06	26.18
MIN	23.03	22.99	23.25	23.01	23.07	23.08	23.41	23.36	23.27	23.12	23.07	22.96	22.96

ANNUAL MAX MOMENTARY GAGE HEIGHT 26.35 M (MSL), AT 5.00 HOURS, ON NOV 13, 1987
ZERO GAGE AT BOTTOM ELEVATION 22.71 M (MSL), RIVER BED 21.21 M (MSL)
LEFT BANK ELEVATION 32.20 M (MSL)
RIGHT BANK ELEVATION 32.59 M (MSL), DRAINAGE AREA 1015 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.01	0.85	0.35	0.02	0.02	1.52	1.13	21.38	0.38	0.06	0.01	
2	0.02	0.01	8.75	0.38	0.02	0.02	1.76	1.13	13.76	0.38	0.04	0.01	
3	0.02	0.01	12.20	0.38	0.13	0.02	8.96	1.06	9.38	0.32	0.04	0.01	
4	0.01	0.01	4.95	0.35	0.09	0.02	11.00	0.92	7.02	0.29	0.04	0.01	
5	0.01	0.01	2.72	0.35	0.09	0.02	12.20	1.92	5.70	0.29	0.02	0.01	
6	0.01	0.01	1.76	0.32	0.07	0.02	28.98	52.02	4.65	0.26	0.02	0.01	
7	0.01	0.01	1.92	0.29	0.07	0.02	22.06	52.02	3.98	0.26	0.02	0.01	
8	0.01	0.01	1.44	0.23	0.07	0.02	14.80	27.16	3.46	0.23	0.02	0.01	
9	0.01	0.01	1.44	0.85	0.06	0.02	11.00	61.97	3.08	0.23	0.02	0.01	
10	0.01	0.01	1.44	0.57	0.02	0.02	8.54	66.66	2.72	0.23	0.02	0.01	
11	0.01	0.01	1.06	0.44	0.02	0.02	6.85	50.96	2.36	0.23	0.02	0.01	
12	0.01	0.01	0.85	0.38	0.02	0.02	5.40	106.00	2.00	0.23	0.02	0.01	
13	0.01	0.01	0.71	0.29	0.02	0.02	4.24	143.00	1.76	0.23	0.02	0.01	
14	0.01	0.01	0.64	0.20	0.02	0.02	3.46	69.40	1.68	0.20	0.02	0.01	
15	0.01	0.01	0.57	0.13	0.02	0.02	2.84	38.58	1.60	0.13	0.02	0.01	
16	0.01	0.01	0.50	0.07	0.02	0.02	3.08	25.12	1.60	0.07	0.02	0.01	
17	0.01	0.85	0.50	0.02	0.02	0.02	3.46	16.76	1.52	0.07	0.02	0.01	
18	0.01	0.35	0.47	0.02	0.06	0.02	3.33	12.20	1.28	0.07	0.02	0.01	
19	0.01	0.20	0.44	0.02	0.11	0.29	2.60	10.04	1.20	0.11	0.02	0.01	
20	0.01	0.15	0.38	0.01	0.09	0.78	2.24	9.80	1.13	0.13	0.02	0.01	
21	0.01	0.41	0.41	0.02	0.02	1.60	2.12	12.46	1.06	0.13	0.02	0.01	
22	0.01	0.38	0.57	0.02	0.02	5.25	2.00	8.54	0.92	0.11	0.02	0.01	
23	0.01	0.41	1.28	0.01	0.02	4.11	2.12	6.68	0.78	0.09	0.02	0.01	
24	0.01	0.44	0.85	0.01	0.02	2.36	2.96	5.70	0.71	0.09	0.02	0.01	
25	0.01	1.13	0.78	0.01	0.02	1.68	2.60	5.40	0.64	0.09	0.02	0.01	
26	0.01	0.71	0.64	0.01	0.02	1.20	2.24	4.80	0.57	0.09	0.02	0.01	
27	0.01	0.71	0.50	0.01	0.02	0.92	2.84	9.80	0.50	0.09	0.02	0.00	
28	0.01	0.64	0.41	0.01	0.02	0.78	2.24	17.04	0.44	0.07	0.02	0.00	
29	0.01	1.28	0.35	0.01	0.02	0.71	1.68	18.22	0.44	0.07	0.02	0.00	
30	0.01	2.36	0.35	0.18	0.02	2.00	1.44	20.39	0.44	0.06		0.00	
31		1.28		0.06	0.02		1.28		0.41	0.06		0.00	
TOTAL	0.33	11.46	49.73	6.00	1.26	22.04	181.84	856.88	98.17	5.29	0.68	0.26	1233.94 CMSDAY
MEAN	0.01	0.37	1.66	0.19	0.04	0.73	5.87	28.56	3.17	0.17	0.02	0.01	3.37 CMS
MAX	0.02	2.36	12.20	0.85	0.13	5.25	28.98	143.00	21.38	0.38	0.06	0.01	143.00 CMS
MIN	0.01	0.01	0.35	0.01	0.02	0.02	1.28	0.92	0.41	0.06	0.02	0.00	0.00 CMS
RUNOFF	0.029	0.990	4.297	0.518	0.109	1.904	15.711	74.034	8.482	0.457	0.059	0.022	106.612 MCM

MOMENTARY PEAK 166.00 CMS, AT 26.35 M (MSL), AT 5.00 HOURS, ON NOV 13, 1987

RUNOFF YIELD 3.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 163.55 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PHETCHABURI RIVER BASIN

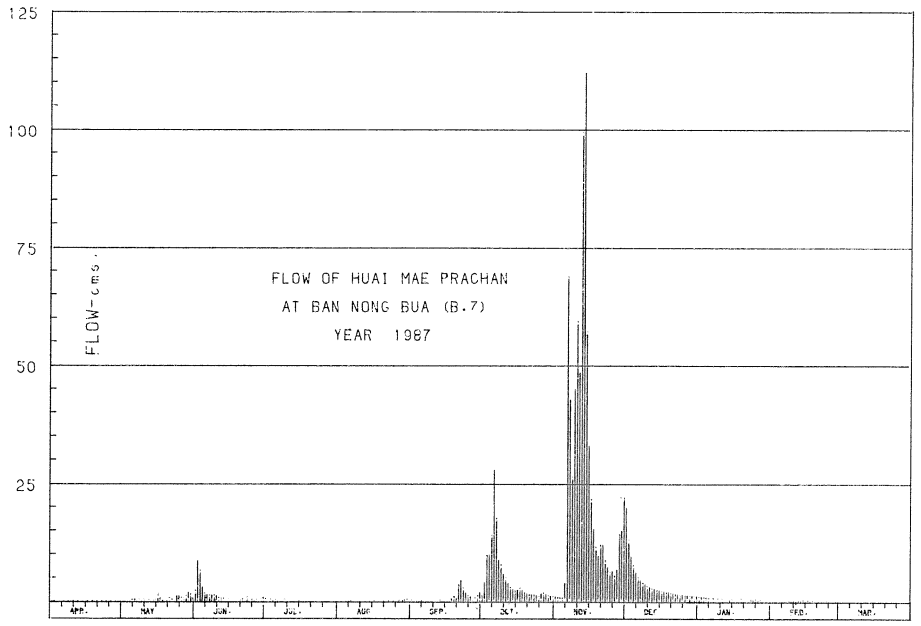
HUAI MAE PRACHAN AT BAN NONG BUA, PHETCHABURI (B.7)

LOCATION	LAT. 13°-01'-45" N., LONG. 99°-44'-00" E., ON LEFT BANK AT BAN NONG BUA, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	846 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE 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 - 1981, 1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 - 1981, 1984 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 95 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.79	0.74	1.34	0.98	0.82	0.86	1.13	1.07	2.86	1.08	0.87	0.82	
2	0.80	0.74	2.07	0.95	0.85	0.84	1.58	1.05	2.42	1.06	0.88	0.82	
3	0.79	0.74	1.87	0.93	0.85	0.83	2.17	1.04	2.15	1.05	0.88	0.81	
4	0.79	0.79	1.45	0.90	0.84	0.82	2.18	1.03	1.97	1.03	0.86	0.80	
5	0.79	0.90	1.24	0.90	0.83	0.82	2.49	1.57	1.82	1.01	0.86	0.79	
6	0.77	0.90	1.17	0.90	0.83	0.81	3.30	4.94	1.72	1.01	0.86	0.79	
7	0.77	0.90	1.16	0.89	0.82	0.81	2.73	3.98	1.64	1.01	0.86	0.79	
8	0.79	0.91	1.14	0.92	0.81	0.81	2.09	3.22	1.58	1.00	0.86	0.81	
9	0.79	0.91	1.16	0.91	0.80	0.80	1.99	4.07	1.54	0.99	0.85	0.81	
10	0.78	0.91	1.10	0.89	0.79	0.80	1.79	4.62	1.49	0.99	0.85	0.81	
11	0.78	0.90	1.03	0.88	0.80	0.80	1.72	4.21	1.45	0.97	0.85	0.81	
12	0.77	0.89	0.99	0.86	0.79	0.82	1.56	5.75	1.41	0.97	0.84	0.80	
13	0.76	0.88	0.96	0.85	0.79	0.84	1.45	6.08	1.38	0.97	0.86	0.80	
14	0.78	0.85	0.94	0.84	0.79	0.84	1.37	4.54	1.35	0.96	0.89	0.79	
15	0.78	0.90	0.92	0.84	0.80	0.83	1.33	3.55	1.33	0.95	0.88	0.79	
16	0.78	1.15	0.91	0.83	0.80	0.83	1.35	2.97	1.31	0.95	0.86	0.78	
17	0.78	1.00	0.91	0.82	0.79	0.83	1.43	2.58	1.29	0.95	0.85	0.77	
18	0.78	0.83	0.91	0.82	0.80	0.95	1.34	2.31	1.27	0.96	0.85	0.78	
19	0.77	0.83	0.91	0.81	0.80	1.09	1.27	2.16	1.27	0.97	0.84	0.77	
20	0.78	0.99	0.93	0.81	0.79	0.98	1.23	2.34	1.24	0.95	0.84	0.77	
21	0.78	1.02	0.93	0.80	0.79	1.53	1.19	2.34	1.22	0.94	0.83	0.76	
22	0.78	0.92	0.93	0.80	0.79	1.65	1.18	2.08	1.20	0.93	0.84	0.77	
23	0.77	0.88	1.04	0.80	0.78	1.43	1.17	1.93	1.18	0.92	0.83	0.76	
24	0.76	1.24	0.94	0.79	0.77	1.25	1.14	1.84	1.17	0.92	0.83	0.76	
25	0.76	1.10	0.92	0.79	0.78	1.15	1.12	1.85	1.16	0.93	0.82	0.75	
26	0.76	1.04	0.92	0.78	0.78	1.07	1.22	1.75	1.14	0.92	0.82	0.75	
27	0.76	1.00	0.90	0.77	0.79	1.04	1.26	1.88	1.12	0.91	0.82	0.75	
28	0.75	1.13	0.91	0.79	0.80	1.02	1.19	2.50	1.13	0.90	0.82	0.75	
29	0.74	1.26	0.96	0.84	0.86	1.14	1.15	2.55	1.11	0.89	0.82	0.75	
30	0.74	1.21	1.04	0.82	0.92	1.26	1.11	2.99	1.09	0.90		0.74	
31		0.99		0.80	0.88		1.09		1.09	0.88		0.71	
MEAN	0.77	0.95	1.09	0.85	0.81	0.98	1.56	2.83	1.45	0.96	0.85	0.78	
MAX	0.80	1.26	2.07	0.98	0.92	1.65	3.30	6.08	2.86	1.08	0.89	0.82	6.08
MIN	0.74	0.74	0.90	0.77	0.77	0.80	1.09	1.03	1.09	0.88	0.82	0.71	0.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.58 M (A.D), AT 1.00 HOURS, ON NOV 13, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.63 M (A.D)
LEFT BANK ELEVATION 8.30 M (A.D)
RIGHT BANK ELEVATION 6.72 M (A.D), DRAINAGE AREA 846 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.08	2.44	0.74	0.26	0.38	1.32	1.08	19.92	1.12	0.41	0.26	
2	0.20	0.08	8.70	0.65	0.35	0.32	4.04	1.00	13.18	1.04	0.44	0.26	
3	0.18	0.08	6.70	0.59	0.35	0.29	9.84	0.96	9.60	1.00	0.44	0.23	
4	0.18	0.18	3.10	0.50	0.32	0.26	9.96	0.92	7.70	0.92	0.38	0.20	
5	0.18	0.50	1.84	0.50	0.29	0.26	14.16	3.96	6.20	0.84	0.38	0.18	
6	0.14	0.50	1.48	0.50	0.29	0.23	28.00	68.90	5.20	0.84	0.38	0.18	
7	0.14	0.50	1.44	0.47	0.26	0.23	17.78	42.80	4.52	0.84	0.38	0.18	
8	0.18	0.53	1.36	0.56	0.23	0.23	8.90	26.48	4.04	0.80	0.38	0.23	
9	0.18	0.53	1.44	0.53	0.20	0.20	7.90	45.05	3.72	0.77	0.35	0.23	
10	0.16	0.53	1.20	0.47	0.18	0.20	5.90	59.48	3.34	0.77	0.35	0.23	
11	0.16	0.50	0.92	0.44	0.20	0.20	5.20	48.55	3.10	0.71	0.35	0.23	
12	0.14	0.47	0.77	0.38	0.18	0.26	3.88	99.43	2.86	0.71	0.32	0.20	
13	0.12	0.44	0.68	0.35	0.18	0.32	3.10	112.07	2.68	0.71	0.38	0.20	
14	0.16	0.35	0.62	0.32	0.18	0.32	2.62	57.28	2.50	0.68	0.47	0.18	
15	0.16	0.50	0.56	0.32	0.20	0.29	2.38	33.05	2.38	0.65	0.44	0.18	
16	0.16	1.40	0.53	0.29	0.20	0.29	2.50	21.79	2.26	0.65	0.38	0.16	
17	0.16	0.80	0.53	0.26	0.18	0.29	2.98	15.42	2.14	0.65	0.35	0.14	
18	0.16	0.29	0.53	0.26	0.20	0.65	2.44	11.64	2.02	0.68	0.35	0.16	
19	0.14	0.29	0.53	0.23	0.20	1.16	2.02	9.72	2.02	0.71	0.32	0.14	
20	0.16	0.77	0.59	0.23	0.18	0.74	1.78	12.06	1.84	0.65	0.32	0.14	
21	0.16	0.88	0.59	0.20	0.18	3.64	1.56	12.06	1.72	0.62	0.29	0.12	
22	0.16	0.56	0.59	0.20	0.18	4.60	1.52	8.80	1.60	0.59	0.32	0.14	
23	0.14	0.44	0.96	0.20	0.16	2.98	1.48	7.30	1.52	0.56	0.29	0.12	
24	0.12	1.84	0.62	0.18	0.14	1.90	1.36	6.40	1.48	0.56	0.29	0.12	
25	0.12	1.20	0.56	0.18	0.16	1.40	1.28	6.50	1.44	0.59	0.26	0.10	
26	0.12	0.96	0.56	0.16	0.16	1.08	1.72	5.50	1.36	0.56	0.26	0.10	
27	0.12	0.80	0.50	0.14	0.18	0.96	1.96	6.80	1.28	0.53	0.26	0.10	
28	0.10	1.32	0.53	0.18	0.20	0.88	1.56	14.30	1.32	0.50	0.26	0.10	
29	0.08	1.96	0.68	0.32	0.38	1.36	1.40	15.00	1.24	0.47	0.26	0.10	
30	0.08	1.66	0.96	0.26	0.56	1.96	1.24	22.13	1.16	0.50		0.08	
31		0.77		0.20	0.44		1.16		1.16	0.44		0.02	
TOTAL	4.44	21.71	42.51	10.81	7.37	27.88	152.94	776.43	116.50	21.66	10.06	5.01	1197.32 CMSDAY
MEAN	0.15	0.70	1.42	0.35	0.24	0.93	4.93	25.88	3.76	0.70	0.35	0.16	3.27 CMS
MAX	0.20	1.96	8.70	0.74	0.56	4.60	28.00	112.07	19.92	1.12	0.47	0.26	112.07 CMS
MIN	0.08	0.08	0.50	0.14	0.14	0.20	1.16	0.92	1.16	0.44	0.26	0.02	0.02 CMS
RUNOFF	0.384	1.876	3.673	0.934	0.637	2.409	13.214	67.084	10.066	1.871	0.869	0.433	103.448 MCM

MOMENTARY PEAK 134.94 CMS, AT 6.58 M (A.D) AT 1.00 HOURS, ON NOV 13, 1987

RUNOFF YIELD 3.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 159.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PHETCHABURI RIVER BASIN

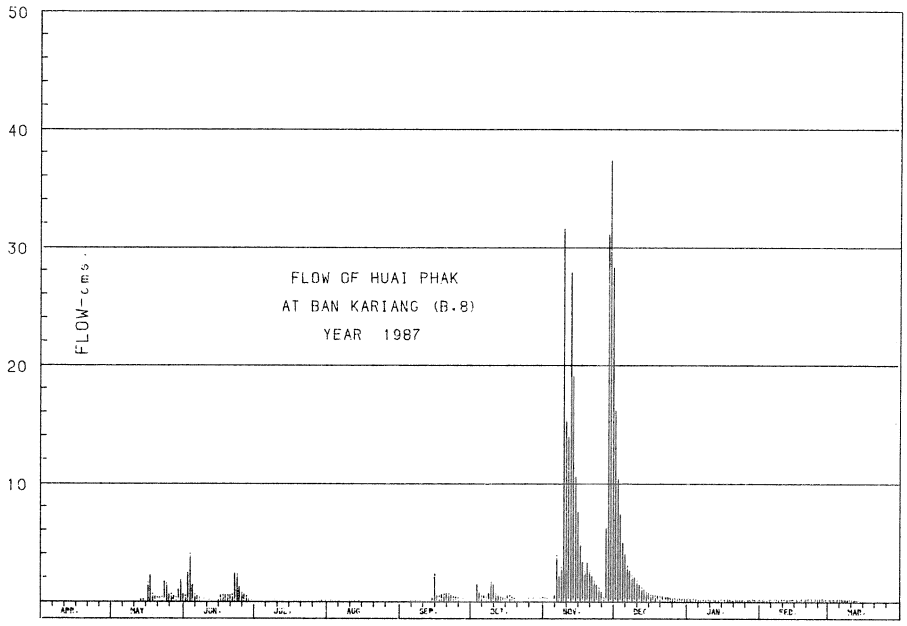
HUAI PHAK AT BAN KARIANG, PHETCHABURI (B.8)

LOCATION	LAT. 12°-48'-49" N., LONG. 99°-41'-32" E., ON LEFT BANK AT BAN KARIANG, TAMBON SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	264 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	+8.879 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.27	1.03	1.86	1.64	1.60	1.52	1.71	1.76	3.52	1.73	1.67	1.64	
2	1.22	1.03	2.29	1.63	1.58	1.54	1.70	1.74	3.13	1.73	1.67	1.61	
3	1.19	1.02	2.52	1.63	1.57	1.55	2.17	1.72	2.86	1.72	1.66	1.58	
4	1.17	1.02	2.10	1.63	1.60	1.55	1.94	1.72	2.66	1.71	1.65	1.58	
5	1.16	1.02	1.91	1.63	1.60	1.55	1.85	1.85	2.51	1.71	1.65	1.60	
6	1.16	1.01	1.83	1.65	1.59	1.56	1.84	2.50	2.39	1.69	1.65	1.61	
7	1.14	1.01	1.78	1.65	1.57	1.56	1.80	2.24	2.32	1.69	1.65	1.62	
8	1.15	1.01	1.74	1.66	1.55	1.56	1.94	2.37	2.25	1.68	1.64	1.61	
9	1.12	1.01	1.72	1.67	1.55	1.56	2.15	4.29	2.22	1.68	1.64	1.61	
10	1.06	1.01	1.69	1.66	1.54	1.56	2.10	3.48	2.18	1.68	1.64	1.61	
11	1.03	1.01	1.67	1.63	1.55	1.57	1.92	3.38	2.10	1.68	1.64	1.60	
12	1.04	1.06	1.65	1.61	1.56	1.58	1.84	4.14	2.06	1.67	1.67	1.59	
13	1.04	1.68	1.65	1.59	1.55	1.60	1.80	3.69	2.02	1.68	1.67	1.59	
14	1.05	1.68	1.65	1.58	1.56	1.74	1.76	3.15	1.97	1.68	1.65	1.60	
15	1.05	1.69	1.78	1.57	1.55	2.27	1.73	2.88	1.94	1.67	1.65	1.60	
16	1.03	2.14	1.86	1.56	1.54	1.84	1.84	2.63	1.90	1.66	1.66	1.59	
17	1.04	2.26	1.88	1.57	1.51	1.84	1.87	2.43	1.87	1.67	1.66	1.58	
18	1.03	1.92	1.88	1.61	1.52	1.89	1.79	2.31	1.87	1.67	1.66	1.58	
19	1.01	1.81	1.87	1.63	1.53	1.92	1.75	2.42	1.85	1.67	1.66	1.57	
20	1.01	1.78	1.87	1.63	1.54	1.93	1.73	2.33	1.84	1.67	1.65	1.55	
21	1.01	1.78	1.91	1.61	1.54	1.92	1.72	2.24	1.82	1.67	1.65	1.54	
22	1.01	1.80	2.28	1.59	1.54	1.86	1.71	2.17	1.78	1.66	1.64	1.54	
23	1.01	2.16	2.27	1.56	1.53	1.81	1.72	2.10	1.77	1.65	1.62	1.53	
24	1.02	2.13	2.07	1.54	1.49	1.79	1.75	2.05	1.76	1.65	1.62	1.53	
25	1.02	1.90	1.95	1.53	1.50	1.76	1.75	1.96	1.75	1.65	1.63	1.51	
26	1.03	1.92	1.90	1.54	1.50	1.74	1.75	1.78	1.75	1.64	1.64	1.49	
27	1.03	1.83	1.84	1.54	1.50	1.72	1.75	2.75	1.74	1.65	1.63	1.49	
28	1.03	1.79	1.71	1.56	1.51	1.71	1.71	4.28	1.73	1.66	1.62	1.48	
29	1.03	2.02	1.68	1.59	1.52	1.72	1.70	4.53	1.73	1.66	1.63	1.47	
30	1.03	2.19	1.65	1.59	1.52	1.72	1.74	4.16	1.73	1.67		1.46	
31		1.91		1.59	1.52		1.78		1.72	1.67		1.46	
MEAN	1.07	1.57	1.88	1.60	1.54	1.71	1.82	2.70	2.09	1.68	1.65	1.56	
MAX	1.27	2.26	2.52	1.67	1.60	2.27	2.17	4.53	3.52	1.73	1.67	1.64	4.53
MIN	1.01	1.01	1.65	1.53	1.49	1.52	1.70	1.72	1.72	1.64	1.62	1.46	1.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.10 M (A.D), AT 10.00 HOURS, ON NOV 29, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.42 M (A.D)
LEFT BANK ELEVATION 6.97 M (A.D)
RIGHT BANK ELEVATION 8.61 M (A.D), DRAINAGE AREA 264 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.52	0.14	0.10	0.02	0.22	0.32	16.14	0.26	0.17	0.14	
2	0.00	0.00	2.44	0.13	0.08	0.04	0.20	0.28	10.59	0.26	0.17	0.11	
3	0.00	0.00	4.06	0.13	0.07	0.05	1.75	0.24	7.36	0.24	0.16	0.08	
4	0.00	0.00	1.40	0.13	0.10	0.05	0.72	0.24	5.30	0.22	0.15	0.08	
5	0.00	0.00	0.63	0.13	0.10	0.05	0.50	0.50	3.98	0.22	0.15	0.10	
6	0.00	0.00	0.46	0.15	0.09	0.06	0.48	3.90	3.04	0.19	0.15	0.11	
7	0.00	0.00	0.36	0.15	0.07	0.06	0.40	2.14	2.62	0.19	0.15	0.12	
8	0.00	0.00	0.28	0.16	0.05	0.06	0.72	2.92	2.20	0.18	0.14	0.11	
9	0.00	0.00	0.24	0.17	0.05	0.06	1.65	31.57	2.02	0.18	0.14	0.11	
10	0.00	0.00	0.19	0.16	0.04	0.06	1.40	15.48	1.80	0.18	0.14	0.11	
11	0.00	0.00	0.17	0.13	0.05	0.07	0.66	13.92	1.40	0.18	0.14	0.10	
12	0.00	0.00	0.15	0.11	0.06	0.08	0.48	28.12	1.20	0.17	0.17	0.09	
13	0.00	0.18	0.15	0.09	0.05	0.10	0.40	19.03	1.00	0.18	0.17	0.09	
14	0.00	0.18	0.15	0.08	0.06	0.28	0.32	10.85	0.81	0.18	0.15	0.10	
15	0.00	0.19	0.36	0.07	0.05	2.32	0.26	7.58	0.72	0.17	0.15	0.10	
16	0.00	1.60	0.52	0.06	0.04	0.48	0.48	5.00	0.60	0.16	0.16	0.09	
17	0.00	2.26	0.56	0.07	0.01	0.48	0.54	3.34	0.54	0.17	0.16	0.08	
18	0.00	0.66	0.56	0.11	0.02	0.58	0.38	2.56	0.54	0.17	0.16	0.08	
19	0.00	0.42	0.54	0.13	0.03	0.66	0.30	3.26	0.50	0.17	0.16	0.07	
20	0.00	0.36	0.54	0.13	0.04	0.69	0.26	2.68	0.48	0.17	0.15	0.05	
21	0.00	0.36	0.63	0.11	0.04	0.66	0.24	2.14	0.44	0.17	0.15	0.04	
22	0.00	0.40	2.38	0.09	0.04	0.52	0.22	1.75	0.36	0.16	0.14	0.04	
23	0.00	1.70	2.32	0.06	0.03	0.42	0.24	1.40	0.34	0.15	0.12	0.03	
24	0.00	1.55	1.25	0.04	0.00	0.38	0.30	1.15	0.32	0.15	0.12	0.03	
25	0.00	0.60	0.75	0.03	0.00	0.32	0.30	0.78	0.30	0.15	0.13	0.01	
26	0.00	0.66	0.60	0.04	0.00	0.28	0.30	0.36	0.30	0.14	0.14	0.00	
27	0.00	0.46	0.48	0.04	0.00	0.24	0.30	6.20	0.28	0.15	0.13	0.00	
28	0.00	0.38	0.22	0.06	0.01	0.22	0.22	31.34	0.26	0.16	0.12	0.00	
29	0.00	1.00	0.18	0.09	0.02	0.24	0.20	37.35	0.26	0.16	0.13	0.00	
30	0.00	1.85	0.15	0.09	0.02	0.24	0.28	28.58	0.26	0.17		0.00	
31		0.63		0.09	0.02		0.36		0.24	0.17		0.00	
TOTAL	0.00	15.44	23.24	3.17	1.34	9.77	15.08	264.98	66.20	5.57	4.27	2.07	411.13 CMSDAY
MEAN	0.00	0.50	0.77	0.10	0.04	0.33	0.49	8.83	2.14	0.18	0.15	0.07	1.12 CMS
MAX	0.00	2.26	4.06	0.17	0.10	2.32	1.75	37.35	16.14	0.26	0.17	0.14	37.35 CMS
MIN	0.00	0.00	0.15	0.03	0.00	0.02	0.20	0.24	0.24	0.14	0.12	0.00	0.00 CMS
RUNOFF	0.000	1.334	2.008	0.274	0.116	0.844	1.303	22.894	5.720	0.481	0.369	0.179	35.522 MCM

MOMENTARY PEAK 52.70 CMS, AT 5.10 M (A.D), AT 10.00 HOURS, ON NOV 29, 1987

RUNOFF YIELD 4.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 199.62 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

PHETCHABURI RIVER BASIN

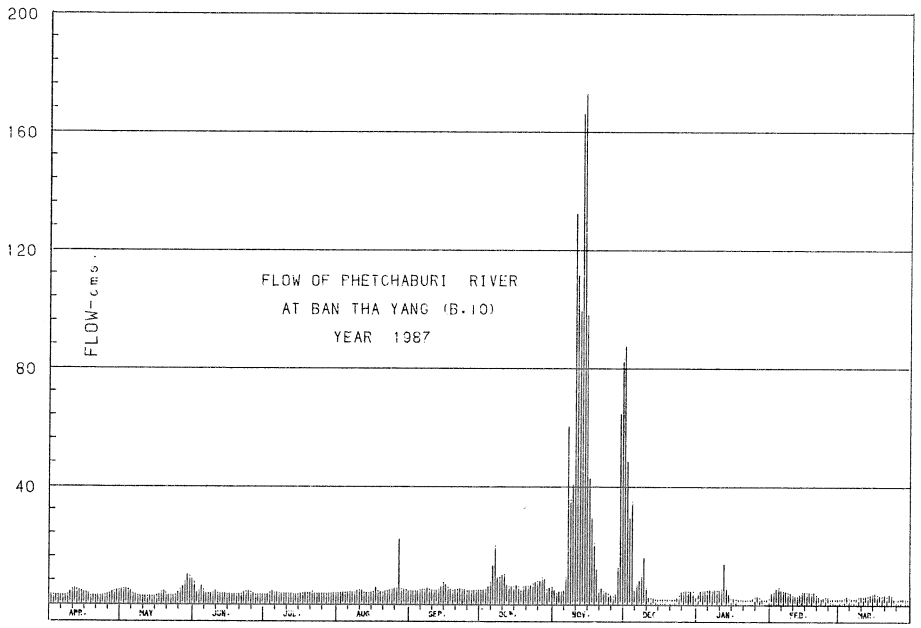
PHETCHABURI RIVER AT BAN THA YANG, PHETCHABURI (B.10)

LOCATION	LAT. 12°-58'-24" N., LONG. 99°-53'-10" E., ON LEFT BANK AT THE BRIDGE OF BAN THA YANG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	4,111 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 2.00 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+9.443 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1985 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1985 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +7.02 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 60 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	1.15	1.38	0.96	1.03	1.10	1.13	1.12	5.16	1.10	1.01	0.77	
2	0.95	1.18	1.03	0.97	1.03	1.10	1.13	1.02	3.80	1.09	1.05	0.78	
3	0.93	1.19	1.10	1.05	1.04	1.10	1.15	1.07	2.79	1.10	1.17	0.82	
4	0.94	1.15	1.27	1.10	1.05	1.10	1.25	1.07	3.10	1.10	1.23	0.88	
5	0.93	1.11	1.15	1.04	1.05	1.14	1.38	1.11	1.11	1.12	1.11	0.82	
6	0.93	1.00	1.00	1.04	1.06	1.16	1.80	1.52	1.33	1.14	1.09	0.79	
7	0.93	0.97	1.00	1.02	1.05	1.16	2.25	4.24	1.42	1.09	1.07	0.78	
8	0.97	0.93	1.00	1.00	1.05	1.20	1.51	3.13	1.61	1.13	1.05	0.80	
9	1.06	0.91	1.03	1.00	1.11	1.16	1.52	3.39	1.98	1.13	1.02	0.87	
10	1.16	0.91	1.11	1.00	1.14	1.13	1.58	6.34	1.27	1.13	0.94	0.89	
11	1.19	0.90	1.02	1.00	1.12	1.12	1.60	5.81	0.83	1.17	0.90	0.88	
12	1.15	0.90	1.00	1.00	1.05	1.12	1.30	5.53	0.82	1.84	0.90	0.89	
13	1.12	0.90	1.00	0.98	1.03	1.16	1.27	7.02	0.80	1.24	0.95	0.91	
14	1.09	0.90	1.00	0.97	1.02	1.24	1.25	7.17	0.77	0.97	1.07	0.94	
15	1.05	0.90	0.98	0.97	1.04	1.37	1.26	5.46	0.75	0.81	1.06	0.98	
16	1.03	0.93	0.98	1.00	1.07	1.31	1.29	3.54	0.75	0.80	1.04	1.01	
17	0.99	0.96	0.97	1.02	1.22	1.23	1.25	2.79	0.75	0.78	1.04	0.97	
18	0.93	1.07	0.97	1.03	1.10	1.17	1.11	2.31	0.75	0.75	1.04	0.92	
19	0.92	1.09	0.98	1.03	1.07	1.12	1.27	1.72	0.75	0.73	1.04	0.91	
20	0.92	1.02	0.98	1.03	1.05	1.15	1.27	1.15	0.75	0.72	0.95	0.93	
21	0.92	0.93	0.99	1.09	1.09	1.17	1.27	1.19	0.75	0.72	0.87	0.90	
22	0.92	0.93	1.06	1.00	1.11	1.18	1.28	1.10	0.75	0.71	0.79	0.97	
23	0.93	0.92	1.08	1.00	1.13	1.16	1.34	1.04	0.82	0.72	0.82	0.92	
24	0.95	0.95	1.10	1.00	1.15	1.14	1.38	1.00	0.93	0.79	0.87	0.75	
25	0.98	1.04	1.06	1.00	1.19	1.11	1.40	0.93	1.05	0.88	0.85	0.73	
26	1.02	1.16	0.99	1.00	1.20	1.11	1.42	0.90	1.09	0.88	0.76	0.74	
27	1.07	1.25	0.96	1.00	2.39	1.12	1.52	0.97	1.09	0.85	0.77	0.77	
28	1.09	1.39	0.96	1.01	1.18	1.12	1.47	1.76	1.09	0.73	0.77	0.80	
29	1.12	1.59	0.97	1.01	1.16	1.13	1.16	4.40	1.09	0.71	0.77	0.76	
30	1.14	1.55	0.96	1.02	1.14	1.13	1.21	5.03	1.10	0.72		0.72	
31		1.47		1.03	1.10		1.24		1.10	0.81		0.89	
MEAN	1.01	1.07	1.04	1.01	1.14	1.16	1.36	2.83	1.36	0.95	0.97	0.85	
MAX	1.19	1.59	1.38	1.10	2.39	1.37	2.25	7.17	5.16	1.84	1.23	1.01	7.17
MIN	0.92	0.90	0.96	0.96	1.02	1.10	1.11	0.90	0.75	0.71	0.76	0.72	0.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.30 M (A.D), AT 18.00 HOURS, ON NOV 13, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.07 M (A.D)
LEFT BANK ELEVATION 7.01 M (A.D)
RIGHT BANK ELEVATION 7.88 M (A.D), DRAINAGE AREA 4111 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.34	5.05	7.56	3.34	3.97	4.60	4.87	4.78	87.48	4.60	3.79	1.85	
2	3.25	5.32	3.97	3.43	3.97	4.60	4.87	3.88	49.50	4.51	4.15	1.90	
3	3.07	5.41	4.60	4.15	4.06	4.60	5.05	4.33	29.12	4.60	5.23	2.16	
4	3.16	5.05	6.27	4.60	4.15	4.60	6.05	4.33	34.90	4.60	5.83	2.64	
5	3.07	4.69	5.05	4.06	4.15	4.96	7.56	4.69	4.69	4.78	4.69	2.16	
6	3.07	3.70	3.70	4.06	4.24	5.14	13.10	9.24	6.96	4.96	4.51	1.95	
7	3.07	3.43	3.70	3.88	4.15	5.14	19.90	60.24	8.04	4.51	4.33	1.90	
8	3.43	3.07	3.70	3.70	4.15	5.50	9.12	35.50	10.34	4.87	4.15	2.00	
9	4.24	2.89	3.97	3.70	4.69	5.14	9.24	40.70	15.80	4.87	3.88	2.56	
10	5.14	2.89	4.69	3.70	4.96	4.87	9.96	133.30	6.27	4.87	3.16	2.72	
11	5.41	2.80	3.88	3.70	4.78	4.78	10.20	111.30	2.24	5.23	2.80	2.64	
12	5.05	2.80	3.70	3.70	4.15	4.78	6.60	100.51	2.16	13.70	2.80	2.72	
13	4.78	2.80	3.70	3.52	3.97	5.14	6.27	166.04	2.00	5.94	3.25	2.89	
14	4.51	2.80	3.70	3.43	3.88	5.94	6.05	173.91	1.85.	3.43	4.33	3.16	
15	4.15	2.80	3.52	3.43	4.06	7.44	6.16	97.92	1.75	2.08	4.24	3.52	
16	3.97	3.07	3.52	3.70	4.33	6.72	6.49	43.74	1.75	2.00	4.06	3.79	
17	3.61	3.34	3.43	3.88	5.72	5.83	6.05	29.12	1.75	1.90	4.06	3.43	
18	3.07	4.33	3.43	3.97	4.60	5.23	4.69	20.86	1.75	1.75	4.06	2.98	
19	2.98	4.51	3.52	3.97	4.33	4.78	6.27	11.90	1.75	1.65	4.06	2.89	
20	2.98	3.88	3.52	3.97	4.15	5.05	6.27	5.05	1.75	1.60	3.25	3.07	
21	2.98	3.07	3.61	4.51	4.51	5.23	6.27	5.41	1.75	1.60	2.56	2.80	
22	2.98	3.07	4.24	3.70	4.69	5.32	6.38	4.60	1.75	1.55	1.95	3.43	
23	3.07	2.98	4.42	3.70	4.87	5.14	7.08	4.06	2.16	1.60	2.16	2.98	
24	3.25	3.25	4.60	3.70	5.05	4.96	7.56	3.70	3.07	1.95	2.56	1.75	
25	3.52	4.06	4.24	3.70	5.41	4.69	7.80	3.07	4.15	2.64	2.40	1.65	
26	3.88	5.14	3.61	3.70	5.50	4.69	8.04	2.80	4.51	2.64	1.80	1.70	
27	4.33	6.05	3.34	3.70	22.14	4.78	9.24	3.43	4.51	2.40	1.85	1.85	
28	4.51	7.68	3.34	3.79	5.32	4.78	8.64	12.50	4.51	1.65	1.85	2.00	
29	4.78	10.08	3.43	3.79	5.14	4.87	5.14	64.40	4.51	1.55	1.85	1.80	
30	4.96	9.60	3.34	3.88	4.96	4.87	5.61	83.19	4.60	1.60		1.60	
31		8.64		3.97	4.60		5.94		4.60	2.08		2.72	
TOTAL	113.61	138.25	121.30	118.03	158.65	154.17	232.47	1248.50	311.97	107.71	99.61	77.21	2881.48 CMSDAY
MEAN	3.79	4.46	4.04	3.81	5.12	5.14	7.50	41.62	10.06	3.47	3.43	2.49	7.87 CMS
MAX	5.41	10.08	7.56	4.60	22.14	7.44	19.90	173.91	87.48	13.70	5.83	3.79	173.91 CMS
MIN	2.98	2.80	3.34	3.34	3.88	4.60	4.69	2.80	1.75	1.55	1.80	1.60	1.55 CMS
RUNOFF	9.816	11.945	10.480	10.198	13.707	13.320	20.085	107.870	26.954	9.306	8.606	6.671	248.960 MCM

MOMENTARY PEAK 180.80 CMS, AT 7.30 M (A.D), AT 18.00 HOURS, ON NOV 13, 1987
RUNOFF YIELD 1.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 43.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

KHLONG KUI AT BAN PONG KASANG, PRACHUAP KHIRI KHAN (KY.2)

LOCATION — LAT. 12°-06'-55" N., LONG. 99°-44'-20" E., ON RIGHT BANK AT THE CULVERT OF THE LEFT IRRIGATION CANAL OF YANG CHUM PROJECT, BAN PONG KASANG, TAMBON HAT KHAM,AMPHOE KUI BURI, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 92 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE MEASURING LINE.

ELEVATION — +7.405 M.(A.D.)

GAGE READING FREQUENCY — 16-TIME DAILY READINGS AT 03.00 - 18.00, 21.00 AND 24.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 16 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

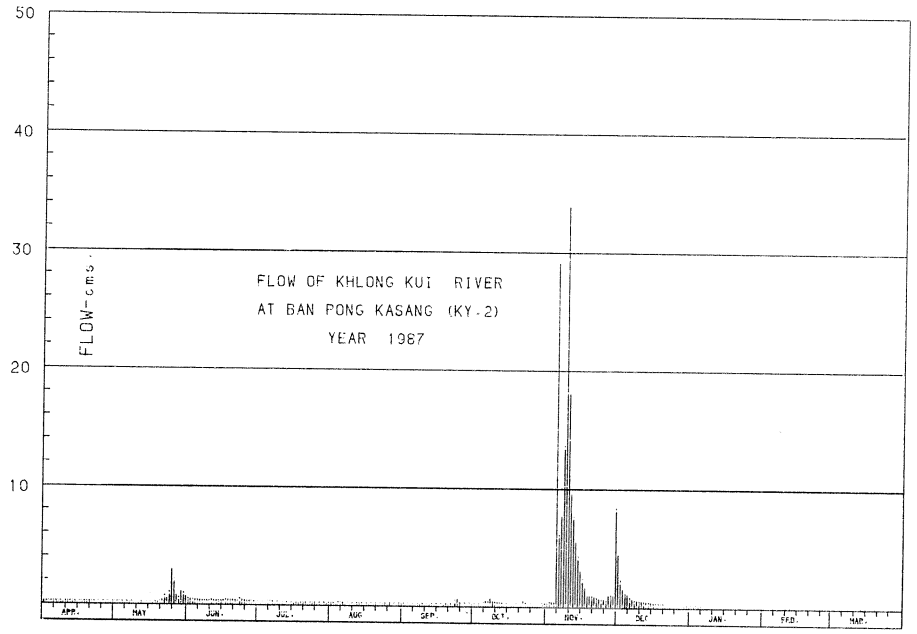
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.07	0.21	0.09	0.07	0.07	0.08	0.10	0.81	0.07	0.00	-0.01	
2	0.07	0.07	0.19	0.09	0.06	0.07	0.08	0.16	0.59	0.06	0.00	-0.01	
3	0.07	0.07	0.18	0.09	0.06	0.07	0.08	0.15	0.48	0.06	-0.01	-0.01	
4	0.07	0.07	0.16	0.09	0.10	0.07	0.08	0.14	0.41	0.05	-0.01	-0.01	
5	0.07	0.07	0.15	0.13	0.10	0.06	0.12	1.76	0.38	0.05	-0.01	-0.01	
6	0.07	0.07	0.14	0.12	0.07	0.06	0.18	0.93	0.31	0.05	-0.02	-0.02	
7	0.07	0.07	0.13	0.11	0.07	0.06	0.16	1.02	0.26	0.04	-0.02	-0.02	
8	0.07	0.07	0.12	0.10	0.07	0.06	0.25	1.29	0.23	0.04	-0.02	-0.02	
9	0.07	0.06	0.13	0.09	0.07	0.06	0.17	1.87	0.22	0.04	-0.03	-0.02	
10	0.07	0.06	0.13	0.08	0.07	0.06	0.14	1.45	0.21	0.04	-0.03	-0.02	
11	0.07	0.06	0.16	0.08	0.07	0.06	0.13	1.12	0.20	0.04	-0.03	-0.03	
12	0.07	0.06	0.14	0.08	0.07	0.06	0.12	1.02	0.19	0.03	-0.02	-0.03	
13	0.07	0.06	0.13	0.08	0.07	0.06	0.11	0.89	0.18	0.03	-0.02	-0.03	
14	0.07	0.06	0.13	0.08	0.07	0.06	0.10	0.80	0.17	0.03	-0.02	-0.03	
15	0.07	0.06	0.13	0.07	0.07	0.06	0.10	0.68	0.15	0.03	-0.02	-0.03	
16	0.07	0.06	0.14	0.07	0.07	0.06	0.09	0.60	0.13	0.03	-0.01	-0.04	
17	0.07	0.06	0.17	0.07	0.07	0.06	0.09	0.50	0.12	0.03	-0.01	-0.04	
18	0.07	0.06	0.16	0.07	0.07	0.06	0.09	0.42	0.12	0.03	-0.01	-0.04	
19	0.07	0.06	0.16	0.07	0.07	0.06	0.09	0.35	0.11	0.03	0.00	-0.04	
20	0.07	0.09	0.15	0.07	0.07	0.06	0.09	0.35	0.11	0.03	0.01	-0.04	
21	0.07	0.14	0.14	0.07	0.07	0.06	0.10	0.32	0.10	0.02	0.00	-0.05	
22	0.07	0.29	0.13	0.07	0.07	0.06	0.17	0.29	0.09	0.02	0.00	-0.05	
23	0.07	0.20	0.22	0.07	0.07	0.21	0.12	0.27	0.09	0.02	-0.01	-0.05	
24	0.07	0.40	0.16	0.07	0.07	0.23	0.10	0.25	0.09	0.02	-0.01	-0.05	
25	0.07	0.67	0.14	0.07	0.07	0.11	0.10	0.24	0.08	0.01	-0.02	-0.05	
26	0.07	0.57	0.12	0.07	0.07	0.09	0.09	0.22	0.08	0.01	-0.02	-0.06	
27	0.07	0.29	0.12	0.07	0.07	0.10	0.09	0.35	0.07	0.01	-0.02	-0.06	
28	0.07	0.24	0.11	0.07	0.07	0.09	0.08	0.37	0.07	0.01	-0.02	-0.06	
29	0.07	0.40	0.10	0.07	0.07	0.09	0.10	0.36	0.07	0.01	-0.01	-0.06	
30	0.07	0.37	0.09	0.07	0.07	0.08	0.12	1.06	0.07	0.01		-0.06	
31		0.26		0.07	0.07		0.09		0.07	0.01		-0.06	
MEAN	0.07	0.17	0.14	0.08	0.07	0.08	0.11	0.64	0.20	0.03	-0.01	-0.04	
MAX	0.07	0.67	0.22	0.13	0.10	0.23	0.25	1.87	0.81	0.07	0.01	-0.01	1.87
MIN	0.07	0.06	0.09	0.07	0.06	0.06	0.08	0.10	0.07	0.01	-0.03	-0.06	-0.06

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.01 M (A.D), AT 13.00 HOURS, ON NOV 5, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.18 M (A.D)

LEFT BANK ELEVATION — 5.03 M (A.D)

RIGHT BANK ELEVATION — 7.53 M (A.D), DRAINAGE AREA 92 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.24	0.53	0.28	0.24	0.24	0.26	0.30	4.43	0.24	0.10	0.09	
2	0.24	0.24	0.48	0.28	0.22	0.24	0.26	0.42	2.32	0.22	0.10	0.09	
3	0.24	0.24	0.46	0.28	0.22	0.24	0.26	0.40	1.50	0.22	0.09	0.09	
4	0.24	0.24	0.42	0.28	0.30	0.24	0.26	0.38	1.15	0.20	0.09	0.09	
5	0.24	0.24	0.40	0.36	0.30	0.22	0.34	29.06	1.04	0.20	0.09	0.09	
6	0.24	0.24	0.38	0.34	0.24	0.22	0.46	6.11	0.83	0.20	0.08	0.08	
7	0.24	0.24	0.36	0.32	0.24	0.22	0.42	7.66	0.68	0.18	0.08	0.08	
8	0.24	0.24	0.34	0.30	0.24	0.22	0.65	13.64	0.59	0.18	0.08	0.08	
9	0.24	0.22	0.36	0.28	0.24	0.22	0.44	33.85	0.56	0.18	0.07	0.08	
10	0.24	0.22	0.36	0.26	0.24	0.22	0.38	18.30	0.53	0.18	0.07	0.08	
11	0.24	0.22	0.42	0.26	0.24	0.22	0.36	9.54	0.50	0.18	0.07	0.07	
12	0.24	0.22	0.38	0.26	0.24	0.22	0.34	7.66	0.48	0.16	0.08	0.07	
13	0.24	0.22	0.36	0.26	0.24	0.22	0.32	5.47	0.46	0.16	0.08	0.07	
14	0.24	0.22	0.36	0.26	0.24	0.22	0.30	4.30	0.44	0.16	0.08	0.07	
15	0.24	0.22	0.36	0.24	0.24	0.22	0.30	3.04	0.40	0.16	0.08	0.07	
16	0.24	0.22	0.38	0.24	0.24	0.22	0.28	2.40	0.36	0.16	0.09	0.06	
17	0.24	0.22	0.44	0.24	0.24	0.22	0.28	1.60	0.34	0.16	0.09	0.06	
18	0.24	0.22	0.42	0.24	0.24	0.22	0.28	1.20	0.34	0.16	0.09	0.06	
19	0.24	0.22	0.42	0.24	0.24	0.22	0.28	0.95	0.32	0.16	0.10	0.06	
20	0.24	0.28	0.40	0.24	0.24	0.22	0.28	0.95	0.32	0.16	0.12	0.06	
21	0.24	0.38	0.38	0.24	0.24	0.22	0.30	0.86	0.30	0.14	0.10	0.05	
22	0.24	0.77	0.36	0.24	0.24	0.22	0.44	0.77	0.28	0.14	0.10	0.05	
23	0.24	0.50	0.56	0.24	0.24	0.53	0.34	0.71	0.28	0.14	0.09	0.05	
24	0.24	1.10	0.42	0.24	0.24	0.59	0.30	0.65	0.28	0.14	0.09	0.05	
25	0.24	2.96	0.38	0.24	0.24	0.32	0.30	0.62	0.26	0.12	0.08	0.05	
26	0.24	2.16	0.34	0.24	0.24	0.28	0.28	0.56	0.26	0.12	0.08	0.04	
27	0.24	0.77	0.34	0.24	0.24	0.30	0.28	0.95	0.24	0.12	0.08	0.04	
28	0.24	0.62	0.32	0.24	0.24	0.28	0.26	1.01	0.24	0.12	0.08	0.04	
29	0.24	1.10	0.30	0.24	0.24	0.28	0.30	0.98	0.24	0.12	0.09	0.04	
30	0.24	1.01	0.28	0.24	0.24	0.26	0.34	8.38	0.24	0.12		0.04	
31		0.68		0.24	0.24		0.28		0.24	0.12		0.04	
TOTAL	7.20	16.67	11.71	8.10	7.52	7.76	10.17	162.72	20.45	5.02	2.52	1.99	261.83 CMSDAY
MEAN	0.24	0.54	0.39	0.26	0.24	0.26	0.33	5.42	0.66	0.16	0.09	0.06	0.72 CMS
MAX	0.24	2.96	0.56	0.36	0.30	0.59	0.65	33.85	4.43	0.24	0.12	0.09	33.85 CMS
MIN	0.24	0.22	0.28	0.24	0.22	0.22	0.26	0.30	0.24	0.12	0.07	0.04	0.04 CMS
RUNOFF	0.622	1.440	1.012	0.700	0.650	0.670	0.879	14.059	1.767	0.434	0.218	0.172	22.622 MCM

MOMENTARY PEAK 117.73 CMS, AT 3.01 M (A.D), AT 13.00 HOURS, ON NOV 5, 1987

RUNOFF YIELD 7.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1279.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

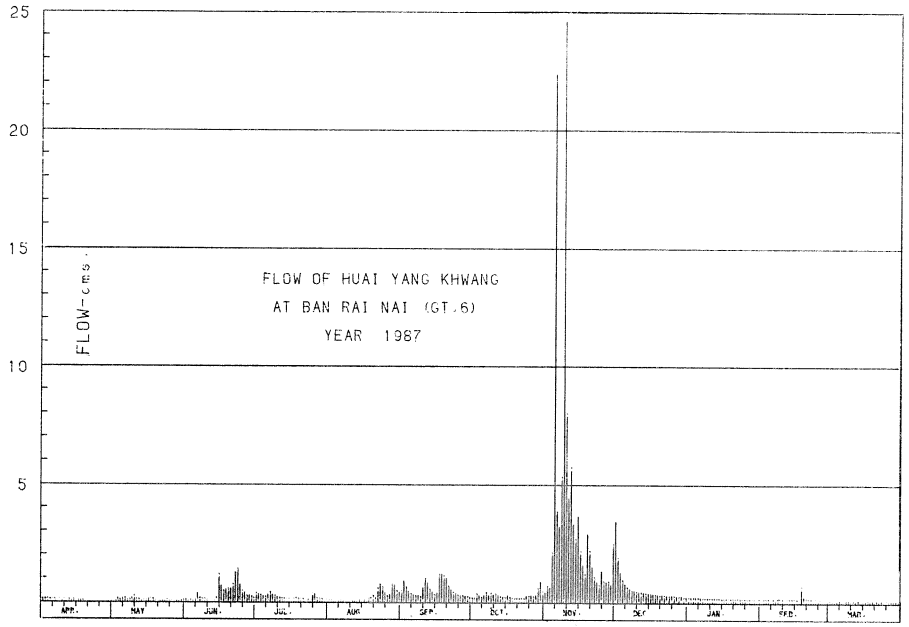
HUAI YANG KHWANG AT BAN RAI NAI, PRACHUAP KHIRI KHAN (GT.6)

LOCATION	LAT. 11°10'31" N., LONG. 99°21'27" E., ON LEFT BANK AT BAN RAI NAI, AMPHOE BANG SAPHAN NOI, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	37 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE METEOROLOGICAL STATION.
ELEVATION	+15.345 M.(A.D.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00 - 18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 150 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.38	0.44	0.57	0.45	0.60	0.50	0.57	1.02	0.51	0.47	0.44	
2	0.46	0.39	0.45	0.55	0.45	0.70	0.50	0.65	0.86	0.51	0.47	0.44	
3	0.46	0.48	0.44	0.54	0.45	0.64	0.56	0.63	0.76	0.51	0.47	0.44	
4	0.45	0.44	0.43	0.52	0.45	0.59	0.53	0.89	0.71	0.51	0.47	0.44	
5	0.45	0.47	0.45	0.52	0.45	0.56	0.51	2.02	0.67	0.51	0.47	0.44	
6	0.45	0.49	0.56	0.54	0.45	0.54	0.53	1.06	0.64	0.50	0.47	0.44	
7	0.45	0.45	0.49	0.58	0.45	0.53	0.58	1.00	0.62	0.50	0.47	0.44	
8	0.44	0.44	0.47	0.54	0.45	0.53	0.53	1.18	0.60	0.50	0.47	0.44	
9	0.44	0.48	0.46	0.53	0.44	0.52	0.57	2.10	0.60	0.50	0.46	0.44	
10	0.44	0.53	0.45	0.51	0.44	0.63	0.54	1.36	0.59	0.50	0.46	0.44	
11	0.44	0.46	0.45	0.50	0.44	0.72	0.56	1.11	0.58	0.49	0.46	0.43	
12	0.43	0.45	0.44	0.48	0.44	0.68	0.53	1.21	0.58	0.49	0.46	0.43	
13	0.43	0.44	0.44	0.48	0.43	0.62	0.52	1.01	0.57	0.49	0.47	0.43	
14	0.43	0.43	0.50	0.47	0.43	0.58	0.51	0.95	0.57	0.49	0.48	0.43	
15	0.42	0.43	0.75	0.46	0.43	0.55	0.51	1.04	0.56	0.48	0.47	0.43	
16	0.42	0.47	0.65	0.46	0.42	0.56	0.53	0.90	0.56	0.48	0.46	0.43	
17	0.42	0.47	0.60	0.47	0.42	0.75	0.51	0.81	0.55	0.48	0.46	0.43	
18	0.41	0.46	0.61	0.50	0.49	0.75	0.50	0.75	0.55	0.48	0.65	0.43	
19	0.41	0.43	0.62	0.47	0.50	0.74	0.49	0.97	0.54	0.48	0.51	0.42	
20	0.41	0.43	0.62	0.47	0.53	0.72	0.49	0.90	0.54	0.48	0.49	0.42	
21	0.41	0.42	0.67	0.46	0.49	0.65	0.49	0.80	0.54	0.48	0.48	0.42	
22	0.40	0.42	0.76	0.45	0.63	0.61	0.49	0.73	0.54	0.48	0.47	0.42	
23	0.39	0.43	0.79	0.45	0.67	0.58	0.49	0.69	0.53	0.48	0.46	0.42	
24	0.39	0.44	0.66	0.44	0.64	0.56	0.52	0.66	0.53	0.48	0.46	0.42	
25	0.39	0.42	0.60	0.57	0.57	0.54	0.53	0.77	0.53	0.47	0.46	0.42	
26	0.38	0.42	0.57	0.55	0.53	0.53	0.53	0.70	0.53	0.47	0.45	0.42	
27	0.38	0.42	0.53	0.50	0.54	0.53	0.52	0.69	0.52	0.47	0.45	0.42	
28	0.38	0.41	0.53	0.48	0.67	0.52	0.53	0.70	0.52	0.47	0.45	0.41	
29	0.39	0.41	0.52	0.46	0.66	0.52	0.63	0.66	0.52	0.47	0.44	0.41	
30	0.38	0.42	0.50	0.45	0.60	0.51	0.69	0.93	0.51	0.47		0.41	
31		0.43		0.45	0.57		0.59		0.51	0.47		0.41	
MEAN	0.42	0.44	0.55	0.50	0.50	0.60	0.53	0.95	0.60	0.49	0.47	0.43	
MAX	0.46	0.53	0.79	0.58	0.67	0.75	0.69	2.10	1.02	0.51	0.65	0.44	2.10
MIN	0.38	0.38	0.43	0.44	0.42	0.51	0.49	0.57	0.51	0.47	0.44	0.41	0.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.20 M (A.D), AT 13.00 HOURS, ON NOV 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.16 M (A.D)
LEFT BANK ELEVATION 8.15 M (A.D)
RIGHT BANK ELEVATION 6.13 M (A.D), DRAINAGE AREA 37 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.04	0.12	0.41	0.13	0.50	0.20	0.41	3.42	0.23	0.16	0.12	
2	0.15	0.05	0.13	0.35	0.13	0.90	0.20	0.70	1.92	0.23	0.16	0.12	
3	0.15	0.17	0.12	0.32	0.13	0.66	0.38	0.62	1.26	0.23	0.16	0.12	
4	0.13	0.12	0.11	0.26	0.13	0.47	0.29	2.13	0.96	0.23	0.16	0.12	
5	0.13	0.16	0.13	0.26	0.13	0.38	0.23	22.36	0.78	0.23	0.16	0.12	
6	0.13	0.19	0.38	0.32	0.13	0.32	0.29	3.86	0.66	0.20	0.16	0.12	
7	0.13	0.13	0.19	0.44	0.13	0.29	0.44	3.20	0.58	0.20	0.16	0.12	
8	0.12	0.12	0.16	0.32	0.13	0.29	0.29	5.34	0.50	0.20	0.16	0.12	
9	0.12	0.17	0.15	0.29	0.12	0.26	0.41	24.60	0.50	0.20	0.15	0.12	
10	0.12	0.29	0.13	0.23	0.12	0.62	0.32	8.02	0.47	0.20	0.15	0.12	
11	0.12	0.15	0.13	0.20	0.12	1.02	0.38	4.43	0.44	0.19	0.15	0.11	
12	0.11	0.13	0.12	0.17	0.12	0.82	0.29	5.74	0.44	0.19	0.15	0.11	
13	0.11	0.12	0.12	0.17	0.11	0.58	0.26	3.31	0.41	0.19	0.16	0.11	
14	0.11	0.11	0.20	0.16	0.11	0.44	0.23	2.70	0.41	0.19	0.17	0.11	
15	0.09	0.11	1.20	0.15	0.11	0.35	0.23	3.64	0.38	0.17	0.16	0.11	
16	0.09	0.16	0.70	0.15	0.09	0.38	0.29	2.20	0.38	0.17	0.15	0.11	
17	0.09	0.16	0.50	0.16	0.09	1.20	0.23	1.57	0.35	0.17	0.15	0.11	
18	0.08	0.15	0.54	0.20	0.19	1.20	0.20	1.20	0.35	0.17	0.70	0.11	
19	0.08	0.11	0.58	0.16	0.20	1.14	0.19	2.90	0.32	0.17	0.23	0.09	
20	0.08	0.11	0.58	0.16	0.29	1.02	0.19	2.20	0.32	0.17	0.19	0.09	
21	0.08	0.09	0.78	0.15	0.19	0.70	0.19	1.50	0.32	0.17	0.17	0.09	
22	0.07	0.09	1.26	0.13	0.62	0.54	0.19	1.08	0.32	0.17	0.16	0.09	
23	0.05	0.11	1.44	0.13	0.78	0.44	0.19	0.86	0.29	0.17	0.15	0.09	
24	0.05	0.12	0.74	0.12	0.66	0.38	0.26	0.74	0.29	0.17	0.15	0.09	
25	0.05	0.09	0.50	0.41	0.41	0.32	0.29	1.32	0.29	0.16	0.15	0.09	
26	0.04	0.09	0.41	0.35	0.29	0.29	0.29	0.90	0.29	0.16	0.13	0.09	
27	0.04	0.09	0.29	0.20	0.32	0.29	0.26	0.86	0.26	0.16	0.13	0.09	
28	0.04	0.08	0.29	0.17	0.78	0.26	0.29	0.90	0.26	0.16	0.13	0.08	
29	0.05	0.08	0.26	0.15	0.74	0.26	0.62	0.74	0.26	0.16	0.12	0.08	
30	0.04	0.09	0.20	0.13	0.50	0.23	0.86	2.50	0.23	0.16		0.08	
31		0.11		0.13	0.41		0.47		0.23	0.16		0.08	
TOTAL	2.80	3.79	12.46	6.95	8.41	16.55	9.45	112.53	17.89	5.73	5.08	3.21	204.85 CMSDAY
MEAN	0.09	0.12	0.42	0.22	0.27	0.55	0.30	3.75	0.58	0.18	0.18	0.10	0.56 CMS
MAX	0.15	0.29	1.44	0.44	0.78	1.20	0.86	24.60	3.42	0.23	0.70	0.12	24.60 CMS
MIN	0.04	0.04	0.11	0.12	0.09	0.23	0.19	0.41	0.23	0.16	0.12	0.08	0.04 CMS
RUNOFF	0.242	0.327	1.077	0.600	0.727	1.430	0.816	9.723	1.546	0.495	0.439	0.277	17.699 MCM

MOMENTARY PEAK 66.20 CMS, AT 3.20 M (A.D), AT 13.00 HOURS, ON NOV 9, 1987

RUNOFF YIELD 15.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1789.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

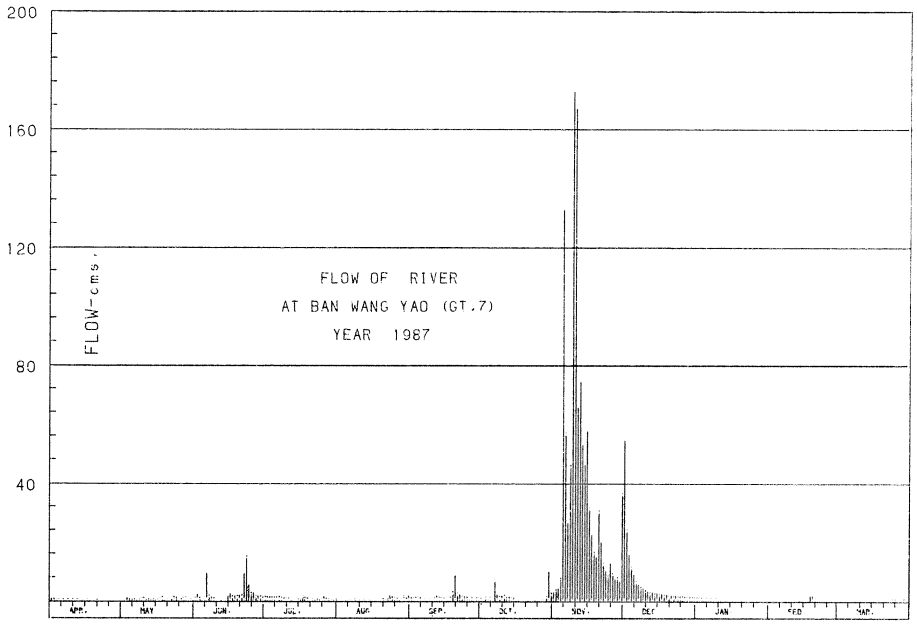
KHLONG BANG SAPHAN YAI AT BAN WANG YAO, PRACHUAP KHIRI KHAN (GT.7)

LOCATION	LAT. 11°14'02" N., LONG. 99°26'35" E., ON LEFT BANK NEAR THE BRIDGE OF PHET KASEM HIGHWAY AT BAN WANG YAO, TAMBON RON THONG, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	346 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.084 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	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 63 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.37	1.25	1.43	1.47	1.37	1.43	1.41	1.60	3.41	1.45	1.38	1.38	
2	1.37	1.25	1.53	1.46	1.37	1.43	1.40	1.67	2.58	1.44	1.38	1.37	
3	1.36	1.41	1.44	1.46	1.37	1.44	1.46	1.68	2.26	1.43	1.38	1.37	
4	1.36	1.37	1.42	1.45	1.37	1.45	1.43	1.91	2.09	1.43	1.38	1.37	
5	1.36	1.37	1.43	1.45	1.37	1.43	1.45	4.96	1.96	1.43	1.38	1.37	
6	1.35	1.36	1.99	1.46	1.40	1.41	1.42	3.48	1.85	1.43	1.38	1.37	
7	1.35	1.36	1.52	1.47	1.38	1.40	1.89	2.65	1.78	1.43	1.39	1.37	
8	1.35	1.37	1.45	1.45	1.37	1.39	1.52	3.19	1.73	1.42	1.38	1.37	
9	1.35	1.40	1.42	1.42	1.37	1.40	1.48	5.61	1.69	1.42	1.38	1.37	
10	1.35	1.42	1.40	1.42	1.36	1.42	1.48	5.54	1.66	1.42	1.39	1.38	
11	1.35	1.39	1.40	1.41	1.36	1.43	1.52	3.68	1.62	1.42	1.38	1.37	
12	1.34	1.38	1.39	1.40	1.36	1.48	1.45	3.89	1.61	1.42	1.40	1.37	
13	1.34	1.37	1.39	1.40	1.35	1.45	1.45	3.37	1.60	1.41	1.40	1.37	
14	1.34	1.37	1.39	1.39	1.35	1.43	1.44	3.22	1.58	1.40	1.40	1.36	
15	1.33	1.35	1.58	1.39	1.35	1.42	1.42	3.49	1.57	1.40	1.39	1.37	
16	1.34	1.36	1.55	1.40	1.35	1.42	1.42	2.81	1.56	1.40	1.38	1.36	
17	1.34	1.40	1.50	1.50	1.32	1.45	1.42	2.51	1.54	1.40	1.38	1.34	
18	1.35	1.45	1.48	1.45	1.35	1.45	1.41	2.30	1.53	1.40	1.61	1.33	
19	1.34	1.38	1.50	1.42	1.38	1.63	1.40	2.23	1.52	1.40	1.48	1.31	
20	1.31	1.39	1.50	1.41	1.38	1.94	1.40	2.78	1.51	1.40	1.43	1.30	
21	1.29	1.37	1.54	1.40	1.37	1.59	1.44	2.42	1.49	1.40	1.41	1.29	
22	1.29	1.47	1.98	1.39	1.41	1.53	1.41	2.15	1.48	1.39	1.40	1.30	
23	1.28	1.46	2.25	1.38	1.49	1.48	1.40	2.02	1.49	1.39	1.39	1.29	
24	1.28	1.44	1.77	1.38	1.46	1.46	1.40	1.95	1.48	1.39	1.39	1.36	
25	1.28	1.40	1.60	1.39	1.44	1.45	1.42	2.14	1.47	1.39	1.38	1.37	
26	1.28	1.38	1.59	1.46	1.41	1.43	1.40	1.99	1.47	1.39	1.38	1.35	
27	1.28	1.43	1.51	1.41	1.39	1.44	1.40	1.88	1.46	1.39	1.38	1.34	
28	1.27	1.45	1.48	1.39	1.40	1.43	1.39	1.92	1.46	1.39	1.38	1.38	
29	1.26	1.38	1.49	1.39	1.44	1.43	1.50	1.84	1.46	1.39	1.38	1.36	
30	1.26	1.38	1.45	1.38	1.41	1.43	2.01	2.94	1.45	1.38		1.37	
31		1.41		1.38	1.48		1.59		1.45	1.38		1.35	
MEAN	1.32	1.39	1.55	1.42	1.39	1.47	1.47	2.79	1.70	1.41	1.40	1.35	
MAX	1.37	1.47	2.25	1.50	1.49	1.94	2.01	5.61	3.41	1.45	1.61	1.38	5.61
MIN	1.26	1.25	1.39	1.38	1.32	1.39	1.39	1.60	1.45	1.38	1.38	1.29	1.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.84 M (A.D), AT 21.00 HOURS, ON NOV 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.30 M (A.D)
LEFT BANK ELEVATION 8.83 M (A.D)
RIGHT BANK ELEVATION 8.80 M (A.D), DRAINAGE AREA 346 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.85	0.25	1.30	1.70	0.85	1.30	1.10	3.00	54.58	1.50	0.90	0.90	
2	0.85	0.25	2.30	1.60	0.85	1.30	1.00	4.05	24.44	1.40	0.90	0.85	
3	0.80	1.10	1.40	1.60	0.85	1.40	1.60	4.20	15.76	1.30	0.90	0.85	
4	0.80	0.85	1.20	1.50	0.85	1.50	1.30	8.00	11.78	1.30	0.90	0.85	
5	0.80	0.85	1.30	1.50	0.85	1.30	1.50	132.60	9.00	1.30	0.90	0.85	
6	0.75	0.80	9.60	1.60	1.00	1.10	1.20	57.24	6.90	1.30	0.90	0.85	
7	0.75	0.80	2.20	1.70	0.90	1.00	7.62	26.50	5.70	1.30	0.95	0.85	
8	0.75	0.85	1.50	1.50	0.85	0.95	2.20	46.22	4.95	1.20	0.90	0.85	
9	0.75	1.00	1.20	1.20	0.85	1.00	1.80	172.65	4.35	1.20	0.90	0.85	
10	0.75	1.20	1.00	1.20	0.80	1.20	1.80	168.10	3.90	1.20	0.95	0.90	
11	0.75	0.95	1.00	1.10	0.80	1.30	2.20	65.60	3.30	1.20	0.90	0.85	
12	0.70	0.90	0.95	1.00	0.80	1.80	1.50	75.50	3.15	1.20	1.00	0.85	
13	0.70	0.85	0.95	1.00	0.75	1.50	1.50	53.06	3.00	1.10	1.00	0.85	
14	0.70	0.85	0.95	0.95	0.75	1.30	1.40	47.36	2.80	1.00	1.00	0.80	
15	0.65	0.75	2.80	0.95	0.75	1.20	1.20	57.62	2.70	1.00	0.95	0.85	
16	0.70	0.80	2.50	1.00	0.75	1.20	1.20	31.87	2.60	1.00	0.90	0.80	
17	0.70	1.00	2.00	2.00	0.60	1.50	1.20	22.48	2.40	1.00	0.90	0.70	
18	0.75	1.50	1.80	1.50	0.75	1.50	1.10	16.80	2.30	1.00	3.15	0.65	
19	0.70	0.90	2.00	1.20	0.90	3.45	1.00	14.98	2.20	1.00	1.80	0.55	
20	0.55	0.95	2.00	1.10	0.90	8.60	1.00	30.80	2.10	1.00	1.30	0.50	
21	0.45	0.85	2.40	1.00	0.85	2.90	1.40	20.04	1.90	1.00	1.10	0.45	
22	0.45	1.70	9.40	0.95	1.10	2.30	1.10	13.10	1.80	0.95	1.00	0.50	
23	0.40	1.60	15.50	0.90	1.90	1.80	1.00	10.24	1.90	0.95	0.95	0.45	
24	0.40	1.40	5.55	0.90	1.60	1.60	1.00	8.80	1.80	0.95	0.95	0.80	
25	0.40	1.00	3.00	0.95	1.40	1.50	1.20	12.88	1.70	0.95	0.90	0.85	
26	0.40	0.90	2.90	1.60	1.10	1.30	1.00	9.60	1.70	0.95	0.90	0.75	
27	0.40	1.30	2.10	1.10	0.95	1.40	1.00	7.44	1.60	0.95	0.90	0.70	
28	0.35	1.50	1.80	0.95	1.00	1.30	0.95	8.20	1.60	0.95	0.90	0.90	
29	0.30	0.90	1.90	0.95	1.40	1.30	2.00	6.72	1.60	0.95	0.90	0.80	
30	0.30	0.90	1.50	0.90	1.10	1.30	10.02	36.72	1.50	0.90		0.85	
31		1.10		0.90	1.80		2.90		1.50	0.90		0.75	
TOTAL	18.60	30.55	86.00	38.00	30.60	52.10	57.99	1172.37	186.51	33.90	30.50	23.80	1760.92 CMSDAY
MEAN	0.62	0.99	2.87	1.23	0.99	1.74	1.87	39.08	6.02	1.09	1.05	0.77	4.81 CMS
MAX	0.85	1.70	15.50	2.00	1.90	8.60	10.02	172.65	54.58	1.50	3.15	0.90	172.65 CMS
MIN	0.30	0.25	0.95	0.90	0.60	0.95	0.95	3.00	1.50	0.90	0.90	0.45	0.25 CMS
RUNOFF	1.607	2.640	7.430	3.283	2.644	4.501	5.010	101.293	16.114	2.929	2.635	2.056	152.143 MCM

MOMENTARY PEAK 345.10 CMS, AT 7.84 M (A.D), AT 21.00 HOURS, ON NOV 9, 1987

RUNOFF YIELD 13.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 997.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

KHLONG THAP SAKAE AT BAN KLANG, PRACHUAP KHIRI KHAN (GT.9)

LOCATION — LAT. 11°29'39" N., LONG. 99°36'21" E., ON RIGHT BANK AT BAN KLANG, TAMBON THAP SAKAE, AMPHOE THAP SAKAE, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 120 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPT.

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

ELEVATION — +5.374 M.(A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1979 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1980 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1980 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 72 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

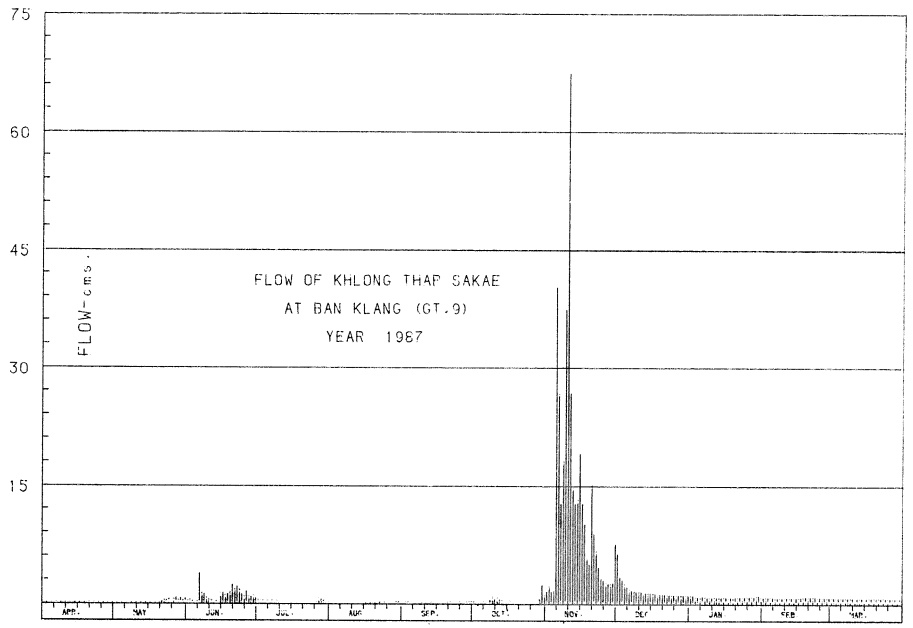
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.06	-0.10	0.08	0.10	0.01	0.01	0.02	0.40	1.03	0.28	0.20	0.19	
2	-0.06	-0.08	0.11	0.08	0.00	0.02	0.01	0.55	0.76	0.27	0.20	0.19	
3	-0.06	-0.08	0.05	0.08	0.00	0.01	0.02	0.40	0.66	0.22	0.20	0.16	
4	-0.06	-0.09	0.04	0.07	-0.01	0.00	0.02	0.42	0.59	0.20	0.20	0.18	
5	-0.06	-0.09	0.02	0.07	-0.01	-0.01	0.02	2.94	0.52	0.20	0.19	0.18	
6	-0.06	-0.09	0.78	0.08	-0.01	-0.02	0.01	2.36	0.47	0.23	0.17	0.18	
7	-0.06	-0.07	0.37	0.08	-0.02	-0.02	0.01	1.57	0.43	0.22	0.17	0.18	
8	-0.07	-0.09	0.33	0.07	-0.03	-0.02	0.09	1.92	0.42	0.19	0.18	0.18	
9	-0.07	-0.07	0.20	0.06	-0.02	-0.04	0.24	2.83	0.40	0.20	0.18	0.18	
10	-0.06	-0.08	0.12	0.03	-0.04	-0.04	0.11	3.86	0.41	0.19	0.18	0.18	
11	-0.07	-0.09	0.08	0.02	-0.04	-0.01	0.20	2.36	0.39	0.20	0.19	0.18	
12	-0.07	-0.09	0.05	0.01	-0.04	-0.01	0.11	1.72	0.40	0.20	0.19	0.17	
13	-0.07	-0.09	0.04	0.01	-0.05	-0.01	0.08	1.57	0.37	0.20	0.18	0.17	
14	-0.07	-0.10	0.06	0.00	-0.07	-0.03	0.04	1.61	0.36	0.19	0.18	0.17	
15	-0.07	-0.10	0.37	0.00	-0.07	-0.04	0.02	1.97	0.36	0.20	0.19	0.17	
16	-0.07	-0.10	0.36	-0.01	-0.08	-0.05	0.01	1.60	0.35	0.19	0.19	0.17	
17	-0.07	-0.10	0.31	0.00	-0.07	0.01	0.00	1.38	0.34	0.19	0.19	0.17	
18	-0.06	-0.10	0.32	0.01	-0.06	0.00	-0.01	0.99	0.33	0.19	0.21	0.17	
19	-0.04	-0.10	0.39	0.00	-0.04	0.00	-0.02	0.90	0.32	0.16	0.22	0.17	
20	-0.03	-0.10	0.57	-0.01	-0.08	0.01	-0.02	1.74	0.31	0.20	0.21	0.17	
21	-0.04	0.02	0.47	-0.02	-0.04	0.02	-0.03	1.28	0.31	0.21	0.21	0.17	
22	-0.05	0.09	0.53	-0.03	-0.01	0.01	-0.03	1.07	0.30	0.20	0.22	0.17	
23	-0.06	0.09	0.46	-0.06	0.00	0.01	-0.04	0.86	0.30	0.21	0.21	0.17	
24	-0.06	0.13	0.32	-0.07	0.00	0.01	-0.04	0.74	0.30	0.21	0.20	0.16	
25	-0.07	0.06	0.26	-0.06	0.00	0.01	-0.04	0.65	0.30	0.21	0.20	0.16	
26	-0.07	0.12	0.41	-0.01	0.00	0.00	-0.06	0.61	0.30	0.22	0.20	0.16	
27	-0.08	0.18	0.26	0.18	0.00	0.00	-0.07	0.59	0.29	0.23	0.19	0.16	
28	-0.09	0.10	0.22	0.12	-0.01	0.02	-0.07	0.59	0.29	0.21	0.19	0.16	
29	-0.09	0.16	0.28	0.07	0.02	0.03	0.23	0.60	0.28	0.26	0.19	0.16	
30	-0.10	0.08	0.16	0.04	0.02	0.04	0.56	1.19	0.29	0.27		0.16	
31		0.15		0.02	0.01		0.31		0.28	0.21		0.16	
MEAN	-0.06	-0.02	0.27	0.03	-0.02	0.00	0.05	1.38	0.40	0.21	0.19	0.17	
MAX	-0.03	0.18	0.78	0.18	0.02	0.04	0.56	3.86	1.03	0.28	0.22	0.19	3.86
MIN	-0.10	-0.10	0.02	-0.07	-0.08	-0.05	-0.07	0.40	0.28	0.16	0.17	0.16	-0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.15 M (A.D), AT 18.00 HOURS, ON NOV 10, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.03 M (A.D)

LEFT BANK ELEVATION — 4.22 M (A.D)

RIGHT BANK ELEVATION — 4.24 M (A.D), DRAINAGE AREA — 120 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.10	0.44	0.50	0.23	0.23	0.26	1.50	6.30	1.04	0.80	0.77	
2	0.14	0.12	0.53	0.44	0.20	0.26	0.23	2.30	3.72	1.01	0.80	0.77	
3	0.14	0.12	0.35	0.44	0.20	0.23	0.26	1.50	3.02	0.86	0.80	0.68	
4	0.14	0.11	0.32	0.41	0.19	0.20	0.26	1.60	2.54	0.80	0.80	0.74	
5	0.14	0.11	0.26	0.41	0.19	0.19	0.26	40.18	2.12	0.80	0.77	0.74	
6	0.14	0.11	3.86	0.44	0.19	0.18	0.23	26.76	1.85	0.89	0.71	0.74	
7	0.14	0.13	1.38	0.44	0.18	0.18	0.23	12.68	1.65	0.86	0.71	0.74	
8	0.13	0.11	1.22	0.41	0.17	0.18	0.47	18.16	1.60	0.77	0.74	0.74	
9	0.13	0.13	0.80	0.38	0.18	0.16	0.92	37.42	1.50	0.80	0.74	0.74	
10	0.14	0.12	0.56	0.29	0.16	0.16	0.53	67.80	1.55	0.77	0.74	0.74	
11	0.13	0.11	0.44	0.26	0.16	0.19	0.80	26.76	1.46	0.80	0.77	0.74	
12	0.13	0.11	0.35	0.23	0.16	0.19	0.53	14.80	1.50	0.80	0.77	0.71	
13	0.13	0.11	0.32	0.23	0.15	0.19	0.44	12.68	1.38	0.80	0.74	0.71	
14	0.13	0.10	0.38	0.20	0.13	0.17	0.32	13.24	1.34	0.77	0.74	0.71	
15	0.13	0.10	1.38	0.20	0.13	0.16	0.26	19.06	1.34	0.80	0.77	0.71	
16	0.13	0.10	1.34	0.19	0.12	0.15	0.23	13.10	1.30	0.77	0.77	0.71	
17	0.13	0.10	1.14	0.20	0.13	0.23	0.20	10.06	1.26	0.77	0.77	0.71	
18	0.14	0.10	1.18	0.23	0.14	0.20	0.19	5.90	1.22	0.77	0.83	0.71	
19	0.16	0.10	1.46	0.20	0.16	0.20	0.18	5.00	1.18	0.68	0.86	0.71	
20	0.17	0.10	2.42	0.19	0.12	0.23	0.18	15.10	1.14	0.80	0.83	0.71	
21	0.16	0.26	1.85	0.18	0.16	0.26	0.17	8.88	1.14	0.83	0.83	0.71	
22	0.15	0.47	2.18	0.17	0.19	0.23	0.17	6.70	1.10	0.80	0.86	0.71	
23	0.14	0.47	1.80	0.14	0.20	0.23	0.16	4.60	1.10	0.83	0.83	0.71	
24	0.14	0.59	1.18	0.13	0.20	0.23	0.16	3.58	1.10	0.83	0.80	0.68	
25	0.13	0.38	0.98	0.14	0.20	0.23	0.16	2.95	1.10	0.83	0.80	0.68	
26	0.13	0.56	1.55	0.19	0.20	0.20	0.14	2.67	1.10	0.86	0.80	0.68	
27	0.12	0.74	0.98	0.74	0.20	0.20	0.13	2.54	1.07	0.89	0.77	0.68	
28	0.11	0.50	0.86	0.56	0.19	0.26	0.13	2.54	1.07	0.83	0.77	0.68	
29	0.11	0.68	1.04	0.41	0.26	0.29	0.89	2.60	1.04	0.98	0.77	0.68	
30	0.10	0.44	0.68	0.32	0.26	0.32	2.36	7.90	1.07	1.01		0.68	
31		0.65		0.26	0.23		1.14		1.04	0.83		0.68	
TOTAL	4.05	7.93	33.23	9.53	5.58	6.33	12.59	390.56	50.90	25.88	22.69	22.10	591.37 CMSDAY
MEAN	0.14	0.26	1.11	0.31	0.18	0.21	0.41	13.02	1.64	0.83	0.78	0.71	1.62 CMS
MAX	0.17	0.74	3.86	0.74	0.26	0.32	2.36	67.80	6.30	1.04	0.86	0.77	67.80 CMS
MIN	0.10	0.10	0.26	0.13	0.12	0.15	0.13	1.50	1.04	0.68	0.71	0.68	0.10 CMS
RUNOFF	0.350	0.685	2.871	0.823	0.482	0.547	1.088	33.744	4.398	2.236	1.960	1.909	51.094 MCM

MOMENTARY PEAK 78.35 CMS, AT 4.15 M (A.D), AT 18.00 HOURS, ON NOV 10, 1987
RUNOFF YIELD 13.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 652.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

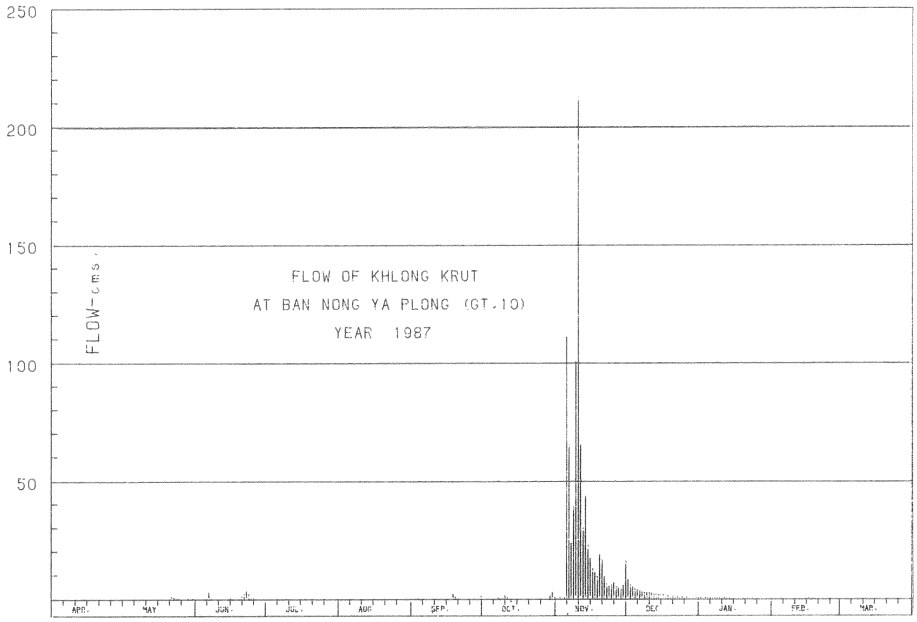
KHLONG KRUT AT BAN NONG YA PLONG, PRACHUAP KHIRI KHAN (GT.10)

LOCATION	LAT. 11°24'08" N., LONG. 99°31'20" E., ON LEFT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 379, BAN NONG YA PLONG, TAMBON CHAI KASEM, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	112 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+5.507 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 72 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.29	0.65	0.75	0.59	0.71	0.59	0.78	1.50	0.87	0.72	0.67	
2	0.60	0.28	0.61	0.70	0.59	0.75	0.73	0.92	1.36	0.86	0.72	0.66	
3	0.60	0.28	0.58	0.72	0.58	0.72	0.63	0.81	1.30	0.85	0.72	0.65	
4	0.57	0.54	0.62	0.71	0.58	0.69	0.68	0.91	1.25	0.85	0.72	0.65	
5	0.54	0.49	0.59	0.74	0.58	0.65	0.63	3.65	1.22	0.85	0.71	0.65	
6	0.54	0.48	1.13	0.74	0.65	0.69	0.58	2.98	1.19	0.85	0.70	0.65	
7	0.52	0.51	0.74	0.81	0.59	0.67	0.87	2.08	1.13	0.84	0.69	0.65	
8	0.50	0.48	0.65	0.76	0.59	0.66	0.82	2.47	1.12	0.83	0.69	0.65	
9	0.49	0.47	0.61	0.73	0.58	0.66	0.87	3.52	1.11	0.83	0.69	0.65	
10	0.50	0.46	0.60	0.69	0.57	0.67	0.99	4.71	1.10	0.82	0.70	0.64	
11	0.47	0.41	0.59	0.68	0.56	0.66	0.83	2.98	1.09	0.82	0.70	0.63	
12	0.42	0.38	0.59	0.66	0.55	0.65	0.77	2.25	1.06	0.80	0.70	0.63	
13	0.40	0.35	0.59	0.65	0.55	0.64	0.73	2.57	1.05	0.80	0.70	0.63	
14	0.40	0.34	0.59	0.64	0.55	0.64	0.70	2.05	1.04	0.79	0.70	0.62	
15	0.39	0.32	0.89	0.64	0.54	0.70	0.69	1.88	1.03	0.77	0.70	0.63	
16	0.38	0.31	0.79	0.63	0.55	0.66	0.67	1.71	1.02	0.76	0.85	0.62	
17	0.37	0.30	0.73	0.78	0.55	0.78	0.65	1.64	1.01	0.75	0.75	0.62	
18	0.36	0.31	0.77	0.75	0.57	1.07	0.64	1.56	0.99	0.74	0.74	0.62	
19	0.35	0.55	0.87	0.70	0.58	0.92	0.63	1.93	0.97	0.73	0.74	0.61	
20	0.34	0.62	0.95	0.67	0.57	0.85	0.63	1.85	0.95	0.72	0.70	0.61	
21	0.34	0.92	1.08	0.65	0.56	0.77	0.63	1.56	0.94	0.71	0.68	0.61	
22	0.33	0.82	1.17	0.64	0.74	0.76	0.63	1.39	0.94	0.72	0.68	0.61	
23	0.32	0.84	1.07	0.63	0.66	0.71	0.62	1.32	0.94	0.72	0.67	0.62	
24	0.31	0.72	0.90	0.62	0.63	0.69	0.64	1.36	0.93	0.72	0.67	0.63	
25	0.31	0.59	0.90	0.62	0.62	0.67	0.64	1.42	0.93	0.72	0.67	0.62	
26	0.30	0.57	0.82	0.71	0.61	0.65	0.62	1.31	0.92	0.72	0.67	0.61	
27	0.29	0.56	0.77	0.68	0.60	0.65	0.61	1.27	0.91	0.72	0.67	0.60	
28	0.33	0.80	0.74	0.62	0.63	0.71	0.61	1.24	0.90	0.72	0.67	0.60	
29	0.31	0.64	0.76	0.61	0.70	0.66	1.03	1.35	0.89	0.72	0.67	0.59	
30	0.30	0.79	0.73	0.60	0.65	0.64	1.13	1.83	0.88	0.72		0.59	
31		0.70		0.59	0.63		0.85		0.88	0.72		0.59	
MEAN	0.42	0.52	0.77	0.68	0.60	0.71	0.72	1.91	1.05	0.78	0.70	0.63	
MAX	0.60	0.92	1.17	0.81	0.74	1.07	1.13	4.71	1.50	0.87	0.85	0.67	4.71
MIN	0.29	0.28	0.58	0.59	0.54	0.64	0.58	0.78	0.88	0.71	0.67	0.59	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.05 M (A.D), AT 11.00 HOURS, ON NOV 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.56 M (A.D)
LEFT BANK ELEVATION 4.15 M (A.D)
RIGHT BANK ELEVATION 4.17 M (A.D), DRAINAGE AREA 112 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.00	0.15	0.35	0.09	0.23	0.09	0.44	8.30	0.71	0.26	0.17	
2	0.10	0.00	0.11	0.20	0.09	0.35	0.29	0.94	5.90	0.68	0.26	0.16	
3	0.10	0.00	0.08	0.26	0.08	0.26	0.13	0.53	5.00	0.65	0.26	0.15	
4	0.07	0.04	0.12	0.23	0.08	0.19	0.18	0.87	4.30	0.65	0.26	0.15	
5	0.04	0.00	0.09	0.32	0.08	0.15	0.13	111.00	3.88	0.65	0.23	0.15	
6	0.04	0.00	2.83	0.32	0.15	0.19	0.08	65.34	3.49	0.65	0.20	0.15	
7	0.02	0.01	0.32	0.53	0.09	0.17	0.71	23.72	2.83	0.62	0.19	0.15	
8	0.00	0.00	0.15	0.38	0.09	0.16	0.56	39.01	2.72	0.59	0.19	0.15	
9	0.00	0.00	0.11	0.29	0.08	0.16	0.71	100.68	2.61	0.59	0.19	0.15	
10	0.00	0.00	0.10	0.19	0.07	0.17	1.43	212.63	2.50	0.56	0.20	0.14	
11	0.00	0.00	0.09	0.18	0.06	0.16	0.59	65.34	2.40	0.56	0.20	0.13	
12	0.00	0.00	0.09	0.16	0.05	0.15	0.41	30.00	2.10	0.50	0.20	0.13	
13	0.00	0.00	0.09	0.15	0.05	0.14	0.29	43.59	2.00	0.50	0.20	0.13	
14	0.00	0.00	0.09	0.14	0.05	0.14	0.20	22.70	1.90	0.47	0.20	0.12	
15	0.00	0.00	0.77	0.14	0.04	0.20	0.19	17.34	1.80	0.41	0.20	0.13	
16	0.00	0.00	0.47	0.13	0.05	0.16	0.17	12.76	1.70	0.38	0.65	0.12	
17	0.00	0.00	0.29	0.44	0.05	0.44	0.15	11.18	1.60	0.35	0.35	0.12	
18	0.00	0.00	0.41	0.35	0.07	2.20	0.14	9.50	1.43	0.32	0.32	0.12	
19	0.00	0.05	0.71	0.20	0.08	0.94	0.13	18.83	1.29	0.29	0.32	0.11	
20	0.00	0.12	1.15	0.17	0.07	0.65	0.13	16.50	1.15	0.26	0.20	0.11	
21	0.00	0.94	2.30	0.15	0.06	0.41	0.13	9.50	1.08	0.23	0.18	0.11	
22	0.00	0.56	3.27	0.14	0.32	0.38	0.13	6.35	1.08	0.26	0.18	0.11	
23	0.00	0.62	2.20	0.13	0.16	0.23	0.12	5.30	1.08	0.26	0.17	0.12	
24	0.00	0.26	0.80	0.12	0.13	0.19	0.14	5.90	1.01	0.26	0.17	0.13	
25	0.00	0.09	0.80	0.12	0.12	0.17	0.14	6.86	1.01	0.26	0.17	0.12	
26	0.00	0.07	0.56	0.23	0.11	0.15	0.12	5.15	0.94	0.26	0.17	0.11	
27	0.00	0.06	0.41	0.18	0.10	0.15	0.11	4.58	0.87	0.26	0.17	0.10	
28	0.00	0.50	0.32	0.12	0.13	0.23	0.11	4.16	0.80	0.26	0.17	0.10	
29	0.00	0.14	0.38	0.11	0.20	0.16	1.80	5.75	0.77	0.26	0.17	0.09	
30	0.00	0.47	0.29	0.10	0.15	0.14	2.83	15.94	0.74	0.26		0.09	
31		0.20		0.09	0.13		0.65		0.74	0.26		0.09	
TOTAL	0.47	4.13	19.55	6.62	3.08	9.42	12.99	872.39	69.02	13.22	6.63	3.91	1021.43 CMSDAY
MEAN	0.02	0.13	0.65	0.21	0.10	0.31	0.42	29.08	2.23	0.43	0.23	0.13	2.79 CMS
MAX	0.10	0.94	3.27	0.53	0.32	2.20	2.83	212.63	8.30	0.71	0.65	0.17	212.63 CMS
MIN	0.00	0.00	0.08	0.09	0.04	0.14	0.08	0.44	0.74	0.23	0.17	0.09	0.00 CMS
RUNOFF	0.041	0.357	1.689	0.572	0.266	0.814	1.122	75.375	5.963	1.142	0.573	0.338	88.252 MCM

MOMENTARY PEAK 251.05 CMS, AT 5.05 M (A.D), AT 11.00 HOURS, ON NOV 10, 1987

RUNOFF YIELD 24.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2241.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

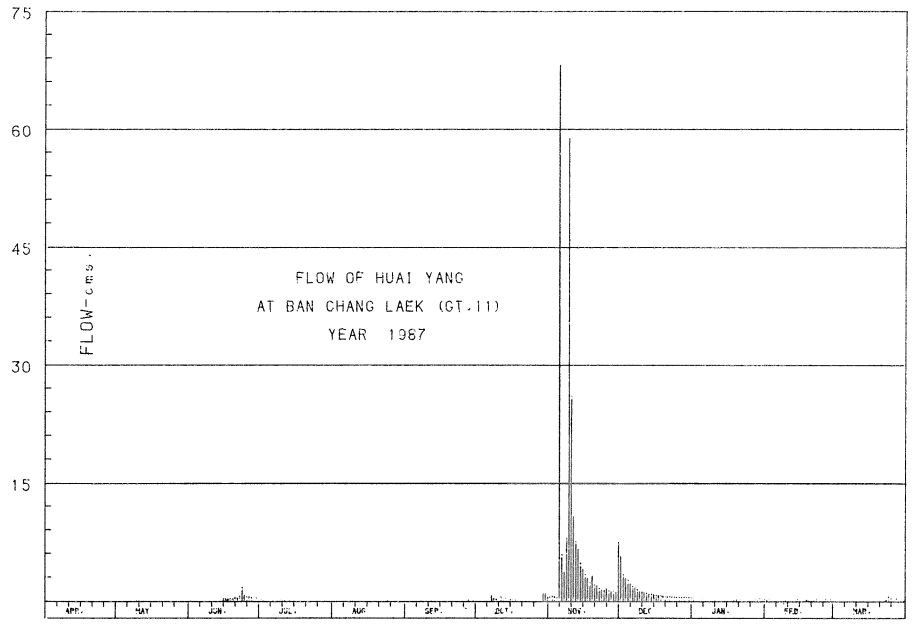
HUAI YANG AT BAN CHANG LAEK, PRACHUAP KHIRI KHAN (GT.11)

LOCATION	LAT. 11°-03'-44" N., LONG. 99°-22'-31" E., ON RIGHT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 423, BAN CHANG LAEK, TAMBON PAK PHAEK, AMPHOE BANG SAPHAN NOI, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	58 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+9.576 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 66 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.39	0.33	0.50	0.58	0.37	0.44	0.44	0.65	1.29	0.62	0.57	0.56	
2	0.39	0.33	0.46	0.56	0.36	0.49	0.43	0.67	1.07	0.62	0.57	0.55	
3	0.39	0.34	0.44	0.56	0.35	0.45	0.42	0.66	1.02	0.62	0.56	0.55	
4	0.38	0.34	0.41	0.55	0.36	0.49	0.41	0.63	0.99	0.62	0.56	0.55	
5	0.38	0.38	0.41	0.55	0.36	0.45	0.41	3.61	0.93	0.60	0.56	0.54	
6	0.37	0.38	0.41	0.55	0.40	0.44	0.40	1.31	0.89	0.60	0.56	0.54	
7	0.37	0.37	0.41	0.55	0.39	0.44	0.73	1.10	0.86	0.60	0.55	0.54	
8	0.36	0.45	0.41	0.54	0.38	0.44	0.59	1.46	0.83	0.60	0.55	0.55	
9	0.36	0.51	0.42	0.55	0.36	0.44	0.56	3.39	0.79	0.60	0.55	0.56	
10	0.37	0.46	0.40	0.54	0.35	0.47	0.57	2.39	0.78	0.60	0.54	0.55	
11	0.37	0.44	0.40	0.52	0.34	0.53	0.64	1.64	0.77	0.60	0.54	0.55	
12	0.37	0.45	0.40	0.50	0.33	0.53	0.59	1.43	0.76	0.60	0.56	0.55	
13	0.36	0.45	0.39	0.49	0.31	0.49	0.60	1.36	0.73	0.59	0.56	0.55	
14	0.35	0.42	0.42	0.48	0.30	0.46	0.58	1.21	0.73	0.59	0.56	0.55	
15	0.33	0.40	0.61	0.46	0.29	0.44	0.56	1.14	0.72	0.59	0.55	0.54	
16	0.33	0.40	0.58	0.45	0.27	0.42	0.56	1.07	0.71	0.59	0.54	0.54	
17	0.32	0.39	0.56	0.45	0.27	0.43	0.55	1.02	0.70	0.59	0.54	0.53	
18	0.32	0.43	0.58	0.46	0.31	0.41	0.53	0.95	0.69	0.58	0.65	0.53	
19	0.32	0.39	0.57	0.46	0.39	0.41	0.53	1.05	0.68	0.58	0.56	0.53	
20	0.32	0.37	0.64	0.43	0.41	0.48	0.53	0.91	0.67	0.58	0.61	0.53	
21	0.32	0.38	0.61	0.40	0.40	0.46	0.53	0.90	0.66	0.58	0.59	0.53	
22	0.32	0.46	0.67	0.38	0.44	0.44	0.52	0.85	0.66	0.57	0.58	0.53	
23	0.31	0.41	0.87	0.38	0.48	0.43	0.54	0.82	0.65	0.57	0.57	0.64	
24	0.30	0.47	0.70	0.37	0.48	0.41	0.56	0.81	0.65	0.57	0.57	0.66	
25	0.30	0.40	0.66	0.40	0.46	0.40	0.52	0.84	0.64	0.57	0.57	0.60	
26	0.30	0.39	0.66	0.43	0.43	0.39	0.52	0.81	0.64	0.57	0.57	0.59	
27	0.35	0.39	0.63	0.39	0.41	0.57	0.52	0.78	0.64	0.57	0.57	0.59	
28	0.34	0.39	0.61	0.37	0.50	0.51	0.51	0.80	0.64	0.57	0.56	0.59	
29	0.34	0.38	0.61	0.37	0.53	0.51	0.80	0.77	0.63	0.57	0.56	0.60	
30	0.33	0.37	0.58	0.37	0.55	0.48	0.74	1.42	0.63	0.57		0.60	
31		0.51		0.36	0.46		0.63		0.62	0.57		0.59	
MEAN	0.35	0.41	0.53	0.47	0.39	0.46	0.55	1.21	0.76	0.59	0.56	0.56	
MAX	0.39	0.51	0.87	0.58	0.55	0.57	0.80	3.61	1.29	0.62	0.65	0.66	3.61
MIN	0.30	0.33	0.39	0.36	0.27	0.39	0.40	0.63	0.62	0.57	0.54	0.53	0.27

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.07 M (A.D), AT 13.00 HOURS, ON NOV 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.27 M (A.D)
LEFT BANK ELEVATION 8.16 M (A.D)
RIGHT BANK ELEVATION 8.17 M (A.D), DRAINAGE AREA 58 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.01	0.07	0.33	0.02	0.04	0.04	0.57	5.70	0.47	0.30	0.27	
2	0.02	0.01	0.05	0.27	0.01	0.07	0.04	0.65	3.42	0.47	0.30	0.24	
3	0.02	0.01	0.04	0.27	0.01	0.04	0.03	0.61	2.94	0.47	0.27	0.24	
4	0.02	0.01	0.02	0.24	0.01	0.07	0.02	0.50	2.68	0.47	0.27	0.24	
5	0.02	0.02	0.02	0.24	0.01	0.04	0.02	68.19	2.23	0.40	0.27	0.20	
6	0.02	0.02	0.02	0.24	0.02	0.04	0.02	5.94	1.93	0.40	0.27	0.20	
7	0.02	0.02	0.02	0.24	0.02	0.04	0.92	3.70	1.72	0.40	0.24	0.20	
8	0.01	0.04	0.02	0.20	0.02	0.04	0.37	8.04	1.51	0.40	0.24	0.24	
9	0.01	0.10	0.03	0.24	0.01	0.04	0.27	58.86	1.25	0.40	0.24	0.27	
10	0.02	0.05	0.02	0.20	0.01	0.06	0.30	26.05	1.19	0.40	0.20	0.24	
11	0.02	0.04	0.02	0.14	0.01	0.17	0.54	10.74	1.13	0.40	0.20	0.24	
12	0.02	0.04	0.02	0.07	0.01	0.17	0.37	7.62	1.08	0.40	0.27	0.24	
13	0.01	0.04	0.02	0.07	0.01	0.07	0.40	6.64	0.92	0.37	0.27	0.24	
14	0.01	0.03	0.03	0.06	0.01	0.05	0.33	4.86	0.92	0.37	0.27	0.24	
15	0.01	0.02	0.43	0.05	0.01	0.04	0.27	4.12	0.86	0.37	0.24	0.20	
16	0.01	0.02	0.33	0.04	0.00	0.03	0.27	3.42	0.80	0.37	0.20	0.20	
17	0.01	0.02	0.27	0.04	0.00	0.04	0.24	2.94	0.75	0.37	0.20	0.17	
18	0.01	0.04	0.33	0.05	0.01	0.02	0.17	2.38	0.72	0.33	0.57	0.17	
19	0.01	0.02	0.30	0.05	0.02	0.02	0.17	3.22	0.68	0.33	0.27	0.17	
20	0.01	0.02	0.54	0.04	0.02	0.06	0.17	2.08	0.65	0.33	0.43	0.17	
21	0.01	0.02	0.43	0.02	0.02	0.05	0.17	2.00	0.61	0.33	0.37	0.17	
22	0.01	0.05	0.65	0.02	0.04	0.04	0.14	1.65	0.61	0.30	0.33	0.17	
23	0.01	0.02	1.79	0.02	0.06	0.04	0.20	1.44	0.57	0.30	0.30	0.54	
24	0.01	0.06	0.75	0.02	0.06	0.02	0.27	1.37	0.57	0.30	0.30	0.61	
25	0.01	0.02	0.61	0.02	0.05	0.02	0.14	1.58	0.54	0.30	0.30	0.40	
26	0.01	0.02	0.61	0.04	0.04	0.02	0.14	1.37	0.54	0.30	0.30	0.37	
27	0.01	0.02	0.50	0.02	0.02	0.30	0.14	1.19	0.54	0.30	0.30	0.37	
28	0.01	0.02	0.43	0.02	0.07	0.10	0.10	1.30	0.54	0.30	0.27	0.37	
29	0.01	0.02	0.43	0.02	0.17	0.10	1.30	1.13	0.50	0.30	0.27	0.40	
30	0.01	0.02	0.33	0.02	0.24	0.06	0.97	7.48	0.50	0.30		0.40	
31		0.10		0.01	0.05		0.50		0.47	0.30		0.37	
TOTAL	0.40	0.95	9.13	3.31	1.06	1.90	9.03	241.64	39.07	11.25	8.26	8.55	334.55 CMSDAY
MEAN	0.01	0.03	0.30	0.11	0.03	0.06	0.29	8.05	1.26	0.36	0.28	0.28	0.91 CMS
MAX	0.02	0.10	1.79	0.33	0.24	0.30	1.30	68.19	5.70	0.47	0.57	0.61	68.19 CMS
MIN	0.01	0.01	0.02	0.01	0.00	0.02	0.02	0.50	0.47	0.30	0.20	0.17	0.00 CMS
RUNOFF	0.035	0.082	0.789	0.286	0.092	0.164	0.780	20.878	3.376	0.972	0.714	0.739	28.905 MCM

MOMENTARY PEAK 142.32 CMS, AT 5.07 M (A.D), AT 13.00 HOURS, ON NOV 9, 1987

RUNOFF YIELD 15.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2453.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

KHLONG LAM CHU AT BAN HUAI SAK, PRACHUAP KHIRI KHAN (GT.12)

LOCATION — LAT. 11°-01'-43" N., LONG. 99°-25'-32" E., ON LEFT BANK ABOUT 1.4 KILOMETERS FROM BAN HUAI SAK RAILWAY STATION, AMPHOE BANG SAPHAN NOI, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 117 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 25 METERS FROM THE TOP STAFF GAGE.

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 — 1983 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

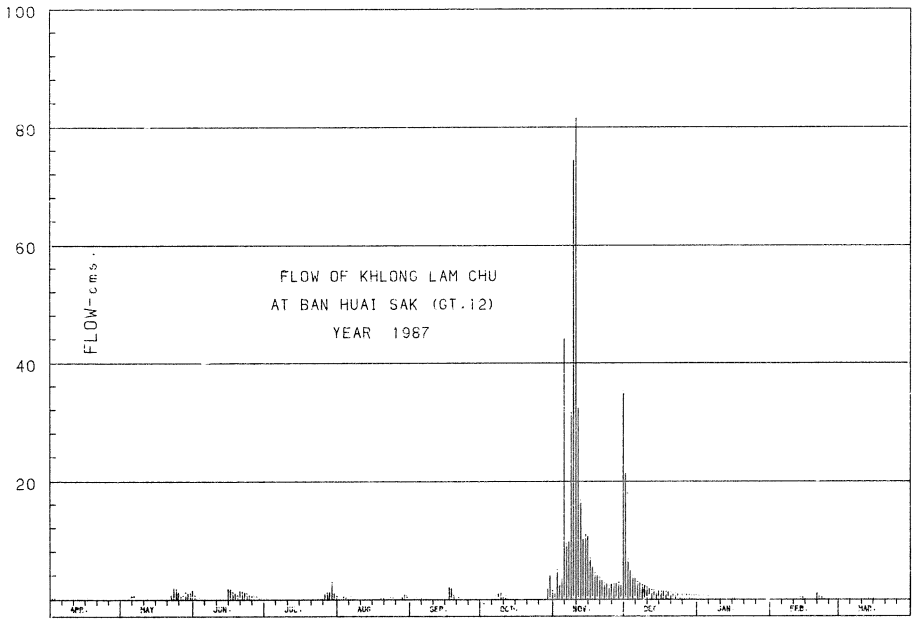
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 152 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.67	1.60	1.83	1.68	1.71	1.77	1.64	1.88	4.12	1.81	1.68	1.62	
2	1.66	1.60	1.74	1.66	1.68	1.76	1.61	2.55	2.78	1.80	1.68	1.62	
3	1.65	1.63	1.71	1.66	1.76	1.73	1.60	2.17	2.53	1.79	1.67	1.61	
4	1.64	1.66	1.68	1.65	1.69	1.68	1.60	2.34	2.43	1.79	1.67	1.60	
5	1.63	1.79	1.67	1.65	1.68	1.66	1.60	5.64	2.36	1.79	1.65	1.60	
6	1.62	1.80	1.67	1.64	1.76	1.64	1.64	3.06	2.28	1.79	1.66	1.60	
7	1.62	1.66	1.66	1.64	1.69	1.64	1.76	3.09	2.24	1.78	1.66	1.59	
8	1.62	1.63	1.65	1.63	1.65	1.63	1.89	4.85	2.20	1.77	1.65	1.63	
9	1.61	1.64	1.71	1.69	1.63	1.63	1.92	7.24	2.17	1.76	1.64	1.73	
10	1.60	1.62	1.72	1.65	1.62	1.66	1.73	7.61	2.13	1.75	1.63	1.66	
11	1.60	1.60	1.68	1.63	1.62	1.70	1.83	4.90	2.07	1.75	1.63	1.66	
12	1.64	1.59	1.65	1.61	1.61	1.68	1.73	3.76	2.04	1.75	1.64	1.65	
13	1.61	1.58	1.64	1.60	1.60	1.66	1.71	3.13	2.03	1.74	1.70	1.64	
14	1.60	1.58	1.66	1.60	1.60	1.63	1.68	3.21	2.01	1.74	1.69	1.63	
15	1.62	1.58	2.16	1.60	1.59	1.61	1.65	3.18	2.00	1.73	1.67	1.62	
16	1.67	1.57	2.06	1.59	1.58	1.71	1.64	2.79	1.99	1.73	1.65	1.60	
17	1.66	1.57	1.97	1.59	1.58	2.21	1.62	2.60	1.99	1.72	1.65	1.60	
18	1.66	1.56	1.92	1.60	1.59	2.08	1.61	2.48	1.98	1.72	1.65	1.60	
19	1.63	1.57	1.84	1.60	1.68	1.83	1.61	2.42	1.96	1.71	1.68	1.59	
20	1.62	1.60	2.00	1.59	1.64	1.78	1.60	2.38	1.95	1.71	2.01	1.59	
21	1.61	1.63	1.98	1.59	1.61	1.72	1.60	2.31	1.93	1.71	1.76	1.58	
22	1.60	1.81	1.94	1.58	1.62	1.71	1.59	2.25	1.93	1.70	1.72	1.58	
23	1.60	2.10	1.93	1.58	1.70	1.68	1.61	2.22	1.90	1.69	1.67	1.57	
24	1.59	2.07	1.83	1.57	1.68	1.65	1.62	2.18	1.90	1.69	1.67	1.56	
25	1.59	1.95	1.77	1.57	1.64	1.64	1.72	2.21	1.88	1.69	1.65	1.56	
26	1.57	1.76	1.81	1.88	1.62	1.62	1.67	2.22	1.86	1.69	1.65	1.56	
27	1.57	1.82	1.76	1.95	1.62	1.65	1.67	2.23	1.86	1.68	1.65	1.56	
28	1.56	1.96	1.74	1.95	1.82	1.68	1.66	2.26	1.85	1.68	1.64	1.56	
29	1.56	1.91	1.72	2.28	1.85	1.72	2.14	2.17	1.84	1.69	1.63	1.55	
30	1.58	1.93	1.70	1.92	1.73	1.67	2.42	5.10	1.83	1.69		1.55	
31		2.02		1.79	1.69		2.01		1.82	1.69		1.55	
MEAN	1.62	1.72	1.79	1.68	1.66	1.71	1.72	3.21	2.12	1.73	1.68	1.60	
MAX	1.67	2.10	2.16	2.28	1.85	2.21	2.42	7.61	4.12	1.81	2.01	1.73	7.61
MIN	1.56	1.56	1.64	1.57	1.58	1.61	1.59	1.88	1.82	1.68	1.63	1.55	1.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.31 M (A.D), AT 18.00 HOURS, ON1NOV 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.43 M (A.D)
LEFT BANK ELEVATION 9.06 M (A.D)
RIGHT BANK ELEVATION 9.30 M (A.D), DRAINAGE AREA 117 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.10	0.69	0.26	0.33	0.51	0.18	0.84	21.26	0.63	0.26	0.14	
2	0.22	0.10	0.42	0.22	0.26	0.48	0.12	5.00	6.84	0.60	0.26	0.14	
3	0.20	0.16	0.33	0.22	0.48	0.39	0.10	2.25	4.84	0.57	0.24	0.12	
4	0.18	0.22	0.26	0.20	0.28	0.26	0.10	3.38	4.04	0.57	0.24	0.10	
5	0.16	0.57	0.24	0.20	0.26	0.22	0.10	44.08	3.52	0.57	0.20	0.10	
6	0.14	0.60	0.24	0.18	0.48	0.18	0.18	9.40	2.96	0.57	0.22	0.10	
7	0.14	0.22	0.22	0.18	0.28	0.18	0.48	9.70	2.68	0.54	0.22	0.09	
8	0.14	0.16	0.20	0.16	0.20	0.16	0.87	31.55	2.40	0.51	0.20	0.16	
9	0.12	0.18	0.33	0.28	0.16	0.16	1.00	74.34	2.25	0.48	0.18	0.39	
10	0.10	0.14	0.36	0.20	0.14	0.22	0.39	82.11	2.05	0.45	0.16	0.22	
11	0.10	0.10	0.26	0.16	0.14	0.30	0.69	32.30	1.75	0.45	0.16	0.22	
12	0.18	0.09	0.20	0.12	0.12	0.26	0.39	16.82	1.60	0.45	0.18	0.20	
13	0.12	0.08	0.18	0.10	0.10	0.22	0.33	10.10	1.55	0.42	0.30	0.18	
14	0.10	0.08	0.22	0.10	0.10	0.16	0.26	10.90	1.45	0.42	0.28	0.16	
15	0.14	0.08	2.20	0.10	0.09	0.12	0.20	10.60	1.40	0.39	0.24	0.14	
16	0.24	0.07	1.70	0.09	0.08	0.33	0.18	6.92	1.35	0.39	0.20	0.10	
17	0.22	0.07	1.25	0.09	0.08	2.47	0.14	5.40	1.35	0.36	0.20	0.10	
18	0.22	0.06	1.00	0.10	0.09	1.80	0.12	4.44	1.30	0.36	0.20	0.10	
19	0.16	0.07	0.72	0.10	0.26	0.69	0.12	3.96	1.20	0.33	0.26	0.09	
20	0.14	0.10	1.40	0.09	0.18	0.54	0.10	3.66	1.15	0.33	1.45	0.09	
21	0.12	0.16	1.30	0.09	0.12	0.36	0.10	3.17	1.05	0.33	0.48	0.08	
22	0.10	0.63	1.10	0.08	0.14	0.33	0.09	2.75	1.05	0.30	0.36	0.08	
23	0.10	1.90	1.05	0.08	0.30	0.26	0.12	2.54	0.90	0.28	0.24	0.07	
24	0.09	1.75	0.69	0.07	0.26	0.20	0.14	2.30	0.90	0.28	0.24	0.06	
25	0.09	1.15	0.51	0.07	0.18	0.18	0.36	2.47	0.84	0.28	0.20	0.06	
26	0.07	0.48	0.63	0.84	0.14	0.14	0.24	2.54	0.78	0.28	0.20	0.06	
27	0.07	0.66	0.48	1.15	0.14	0.20	0.24	2.61	0.78	0.26	0.20	0.06	
28	0.06	1.20	0.42	1.15	0.66	0.26	0.22	2.82	0.75	0.26	0.18	0.06	
29	0.06	0.95	0.36	2.96	0.75	0.36	2.10	2.25	0.72	0.28	0.16	0.05	
30	0.08	1.05	0.30	1.00	0.39	0.24	3.96	35.30	0.69	0.28		0.05	
31		1.50		0.57	0.28		1.45		0.66	0.28		0.05	
TOTAL	4.10	14.68	19.26	11.21	7.47	12.18	15.07	426.50	76.06	12.50	7.91	3.62	610.56 CMSDAY
MEAN	0.14	0.47	0.64	0.36	0.24	0.41	0.49	14.22	2.45	0.40	0.27	0.12	1.67 CMS
MAX	0.24	1.90	2.20	2.96	0.75	2.47	3.96	82.11	21.26	0.63	1.45	0.39	82.11 CMS
MIN	0.06	0.06	0.18	0.07	0.08	0.12	0.09	0.84	0.66	0.26	0.16	0.05	0.05 CMS
RUNOFF	0.354	1.268	1.664	0.969	0.645	1.052	1.302	36.850	6.572	1.080	0.683	0.313	52.752 MCM

MOMENTARY PEAK 148.57 CMS, AT 10.31 M (A.D), AT 18.00 HOURS, ON1NOV 9, 1987

RUNOFF YIELD 14.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1269.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

KHLONG TAM RU AT BAN THAMMARAT, PRACHUAP KHIRI KHAN (GT.14)

LOCATION — LAT. 11°08'57" N., LONG. 99°23'05" E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY, BAN THAMMARAT, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 11 SQ.KM.

TYPE OF GAGE — STAFF GAGE

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

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

ELEVATION — +6.872 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 — 1983 TO DATE

RATING OPERATION

PERIOD OF RATING — 1984 TO DATE

RATED BY FLOAT — -

RATED BY CURRENT METER — 1984 TO DATE

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 45 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

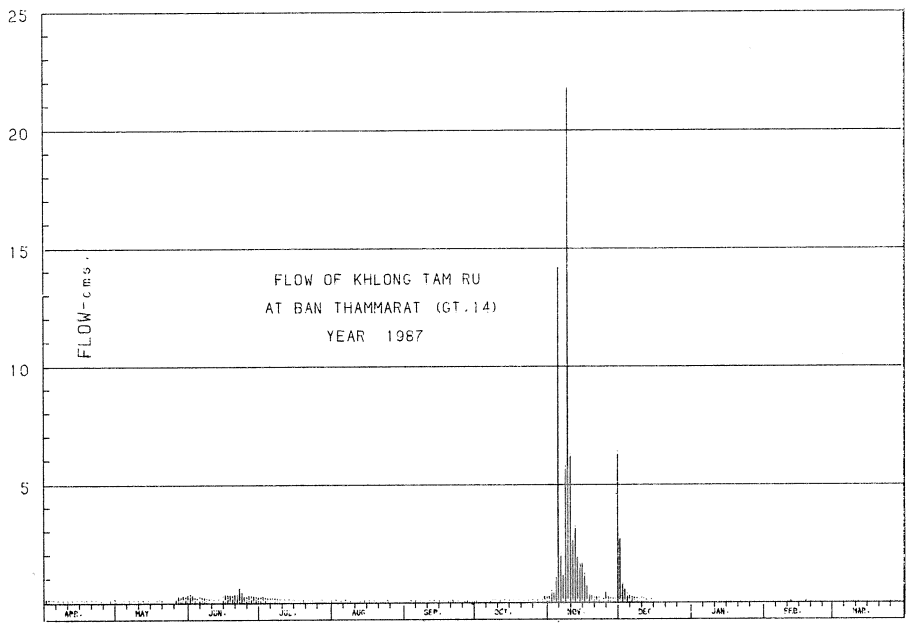
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.46	0.64	0.56	0.48	0.46	0.44	0.57	1.18	0.34	0.33	0.35	
2	0.50	0.46	0.60	0.58	0.48	0.47	0.44	0.70	0.83	0.33	0.33	0.35	
3	0.49	0.47	0.56	0.56	0.47	0.46	0.44	0.65	0.71	0.30	0.33	0.34	
4	0.48	0.47	0.54	0.54	0.47	0.46	0.44	0.87	0.65	0.31	0.33	0.33	
5	0.48	0.47	0.58	0.54	0.48	0.46	0.44	2.18	0.59	0.30	0.32	0.33	
6	0.47	0.47	0.56	0.54	0.48	0.46	0.44	1.08	0.57	0.30	0.32	0.33	
7	0.47	0.47	0.55	0.54	0.46	0.45	0.52	0.89	0.55	0.32	0.32	0.33	
8	0.47	0.47	0.53	0.53	0.46	0.45	0.48	1.55	0.54	0.32	0.31	0.34	
9	0.47	0.47	0.52	0.52	0.46	0.45	0.48	2.59	0.51	0.32	0.31	0.36	
10	0.47	0.46	0.51	0.50	0.47	0.46	0.47	1.60	0.55	0.31	0.32	0.36	
11	0.47	0.47	0.50	0.50	0.46	0.46	0.47	1.17	0.53	0.31	0.32	0.36	
12	0.47	0.47	0.50	0.50	0.46	0.47	0.47	1.26	0.48	0.31	0.32	0.35	
13	0.47	0.47	0.51	0.50	0.46	0.46	0.47	1.05	0.50	0.31	0.32	0.35	
14	0.47	0.47	0.51	0.48	0.46	0.45	0.47	0.99	0.49	0.31	0.32	0.35	
15	0.47	0.46	0.59	0.48	0.46	0.45	0.47	1.00	0.49	0.31	0.32	0.35	
16	0.47	0.48	0.62	0.48	0.46	0.45	0.47	0.91	0.48	0.31	0.32	0.35	
17	0.47	0.49	0.61	0.48	0.46	0.44	0.47	0.76	0.47	0.32	0.32	0.35	
18	0.47	0.46	0.61	0.48	0.46	0.44	0.47	0.66	0.46	0.33	0.46	0.34	
19	0.47	0.49	0.60	0.48	0.46	0.43	0.47	0.59	0.45	0.34	0.35	0.34	
20	0.48	0.46	0.62	0.48	0.45	0.46	0.46	0.56	0.44	0.34	0.35	0.34	
21	0.48	0.45	0.63	0.47	0.44	0.46	0.47	0.56	0.43	0.34	0.34	0.33	
22	0.48	0.45	0.74	0.47	0.46	0.45	0.47	0.56	0.42	0.33	0.34	0.33	
23	0.47	0.45	0.67	0.47	0.47	0.45	0.46	0.52	0.41	0.33	0.33	0.34	
24	0.47	0.45	0.58	0.47	0.47	0.44	0.47	0.51	0.39	0.33	0.34	0.36	
25	0.47	0.44	0.58	0.48	0.45	0.44	0.47	0.66	0.38	0.33	0.34	0.34	
26	0.47	0.58	0.60	0.49	0.46	0.44	0.47	0.56	0.39	0.33	0.34	0.34	
27	0.47	0.58	0.60	0.48	0.46	0.43	0.47	0.54	0.39	0.33	0.35	0.34	
28	0.46	0.56	0.59	0.48	0.46	0.44	0.47	0.53	0.37	0.33	0.35	0.33	
29	0.46	0.59	0.58	0.47	0.46	0.45	0.48	0.52	0.35	0.33	0.35	0.31	
30	0.50	0.57	0.56	0.47	0.46	0.44	0.57	1.61	0.34	0.33		0.31	
31		0.61		0.47	0.46		0.56		0.33	0.33		0.30	
MEAN	0.47	0.49	0.58	0.50	0.46	0.45	0.47	0.94	0.51	0.32	0.33	0.34	
MAX	0.50	0.61	0.74	0.58	0.48	0.47	0.57	2.59	1.18	0.34	0.46	0.36	2.59
MIN	0.46	0.44	0.50	0.47	0.44	0.43	0.44	0.51	0.33	0.30	0.31	0.30	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.06 M (A.D), AT 14.00 HOURS, ON NOV 9, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.11 M (A.D)

LEFT BANK ELEVATION — 5.50 M (A.D)

RIGHT BANK ELEVATION — 5.57 M (A.D), DRAINAGE AREA — 11 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.09	0.36	0.22	0.12	0.09	0.07	0.24	2.67	0.02	0.02	0.02	
2	0.14	0.09	0.29	0.25	0.12	0.10	0.07	0.51	0.90	0.02	0.02	0.02	
3	0.13	0.10	0.22	0.22	0.10	0.09	0.07	0.38	0.54	0.01	0.02	0.02	
4	0.12	0.10	0.19	0.19	0.10	0.09	0.07	1.05	0.38	0.01	0.02	0.02	
5	0.12	0.10	0.25	0.19	0.12	0.09	0.07	14.18	0.27	0.01	0.01	0.02	
6	0.10	0.10	0.22	0.19	0.12	0.09	0.07	2.07	0.24	0.01	0.01	0.02	
7	0.10	0.10	0.20	0.19	0.09	0.08	0.16	1.14	0.20	0.01	0.01	0.02	
8	0.10	0.10	0.18	0.18	0.09	0.08	0.12	5.78	0.19	0.01	0.01	0.02	
9	0.10	0.10	0.16	0.16	0.09	0.08	0.12	21.80	0.15	0.01	0.01	0.03	
10	0.10	0.09	0.15	0.14	0.10	0.09	0.10	6.30	0.20	0.01	0.01	0.03	
11	0.10	0.10	0.14	0.14	0.09	0.09	0.10	2.61	0.18	0.01	0.01	0.03	
12	0.10	0.10	0.14	0.14	0.09	0.10	0.10	3.23	0.12	0.01	0.01	0.02	
13	0.10	0.10	0.15	0.14	0.09	0.09	0.10	1.90	0.14	0.01	0.01	0.02	
14	0.10	0.10	0.15	0.12	0.09	0.08	0.10	1.60	0.13	0.01	0.01	0.02	
15	0.10	0.09	0.27	0.12	0.09	0.08	0.10	1.65	0.13	0.01	0.01	0.02	
16	0.10	0.12	0.33	0.12	0.09	0.08	0.10	1.22	0.12	0.01	0.01	0.02	
17	0.10	0.13	0.31	0.12	0.09	0.07	0.10	0.67	0.10	0.01	0.01	0.02	
18	0.10	0.09	0.31	0.12	0.09	0.07	0.10	0.41	0.09	0.02	0.09	0.02	
19	0.10	0.13	0.29	0.12	0.09	0.07	0.10	0.27	0.08	0.02	0.02	0.02	
20	0.12	0.09	0.33	0.12	0.08	0.09	0.09	0.22	0.07	0.02	0.02	0.02	
21	0.12	0.08	0.34	0.10	0.07	0.09	0.10	0.22	0.07	0.02	0.02	0.02	
22	0.12	0.08	0.61	0.10	0.09	0.08	0.10	0.22	0.06	0.02	0.02	0.02	
23	0.10	0.08	0.43	0.10	0.10	0.08	0.09	0.16	0.06	0.02	0.02	0.02	
24	0.10	0.08	0.25	0.10	0.10	0.07	0.10	0.15	0.04	0.02	0.02	0.03	
25	0.10	0.07	0.25	0.12	0.08	0.07	0.10	0.41	0.04	0.02	0.02	0.02	
26	0.10	0.25	0.29	0.13	0.09	0.07	0.10	0.22	0.04	0.02	0.02	0.02	
27	0.10	0.25	0.29	0.12	0.09	0.07	0.10	0.19	0.04	0.02	0.02	0.02	
28	0.09	0.22	0.27	0.12	0.09	0.07	0.10	0.18	0.03	0.02	0.02	0.02	
29	0.09	0.27	0.25	0.10	0.09	0.08	0.12	0.16	0.02	0.02	0.02	0.01	
30	0.14	0.24	0.22	0.10	0.09	0.07	0.24	6.40	0.02	0.02		0.01	
31		0.31		0.10	0.09		0.22		0.02	0.02		0.01	
TOTAL	3.23	3.95	7.84	4.38	2.92	2.45	3.28	75.54	7.34	0.47	0.52	0.63	112.55 CMSDAY
MEAN	0.11	0.13	0.26	0.14	0.09	0.08	0.11	2.52	0.24	0.02	0.02	0.02	0.31 CMS
MAX	0.14	0.31	0.61	0.25	0.12	0.10	0.24	21.80	2.67	0.02	0.09	0.03	21.80 CMS
MIN	0.09	0.07	0.14	0.10	0.07	0.07	0.07	0.15	0.02	0.01	0.01	0.01	0.01 CMS
RUNOFF	0.279	0.341	0.677	0.378	0.252	0.212	0.283	6.527	0.634	0.041	0.045	0.054	9.724 MCM

MOMENTARY PEAK 67.66 CMS, AT 4.06 M (A.D), AT 14.00 HOURS, ON NOV 9, 1987

RUNOFF YIELD 27.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 6150.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

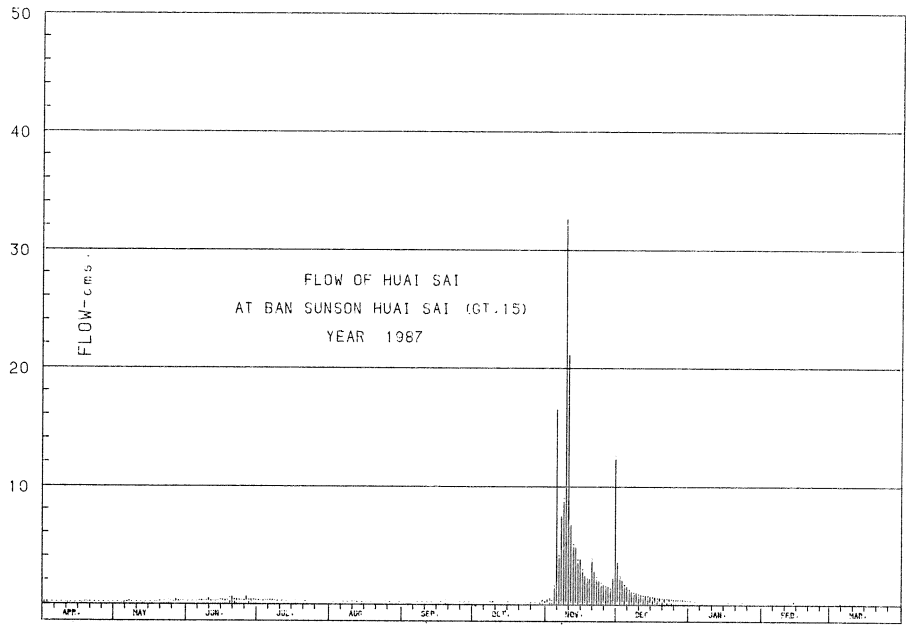
KHLONG HIN CHUANG AT BAN SUAN SON, PRACHUAP KHIRI KHAN (GT.15)

LOCATION	LAT. 11°40'33" N., LONG. 99°41'44" E., ON RIGHT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 342, TAMBON HUAI SAI, AMPHOE MUANG, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	26 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+7.419 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 66 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.38	0.42	0.47	0.40	0.39	0.37	0.50	1.07	0.45	0.35	0.30	
2	0.39	0.37	0.42	0.46	0.40	0.39	0.37	0.55	0.93	0.44	0.34	0.29	
3	0.38	0.37	0.42	0.45	0.39	0.39	0.37	0.47	0.87	0.43	0.34	0.26	
4	0.37	0.30	0.41	0.46	0.40	0.39	0.36	0.80	0.81	0.42	0.34	0.26	
5	0.37	0.38	0.41	0.47	0.41	0.39	0.36	2.07	0.78	0.41	0.34	0.26	
6	0.36	0.39	0.46	0.48	0.41	0.39	0.36	1.14	0.74	0.41	0.34	0.25	
7	0.36	0.44	0.46	0.47	0.41	0.38	0.36	1.45	0.71	0.41	0.32	0.25	
8	0.36	0.39	0.45	0.46	0.40	0.39	0.43	1.57	0.70	0.41	0.31	0.25	
9	0.36	0.39	0.46	0.44	0.40	0.39	0.42	2.86	0.69	0.37	0.31	0.25	
10	0.35	0.38	0.53	0.44	0.41	0.38	0.41	2.34	0.67	0.36	0.30	0.24	
11	0.35	0.38	0.45	0.44	0.42	0.38	0.41	1.39	0.65	0.36	0.31	0.24	
12	0.33	0.38	0.44	0.43	0.40	0.38	0.40	1.24	0.64	0.36	0.31	0.24	
13	0.32	0.38	0.44	0.42	0.40	0.38	0.40	1.21	0.63	0.36	0.31	0.24	
14	0.32	0.38	0.45	0.42	0.39	0.38	0.38	1.10	0.63	0.36	0.31	0.24	
15	0.32	0.38	0.49	0.42	0.39	0.43	0.37	1.10	0.61	0.35	0.32	0.41	
16	0.34	0.38	0.47	0.42	0.39	0.42	0.37	1.01	0.61	0.35	0.35	0.41	
17	0.38	0.38	0.46	0.45	0.39	0.39	0.37	0.93	0.59	0.35	0.43	0.40	
18	0.40	0.38	0.46	0.43	0.40	0.39	0.37	0.90	0.57	0.35	0.45	0.38	
19	0.39	0.38	0.58	0.42	0.40	0.47	0.37	0.89	0.56	0.34	0.51	0.37	
20	0.39	0.42	0.60	0.43	0.40	0.42	0.36	1.11	0.56	0.34	0.52	0.37	
21	0.39	0.39	0.51	0.43	0.40	0.40	0.36	0.98	0.54	0.33	0.51	0.37	
22	0.38	0.43	0.50	0.42	0.40	0.40	0.36	0.91	0.54	0.36	0.50	0.36	
23	0.38	0.41	0.48	0.41	0.40	0.39	0.36	0.86	0.53	0.36	0.50	0.36	
24	0.37	0.46	0.46	0.40	0.41	0.39	0.36	0.84	0.53	0.34	0.50	0.47	
25	0.37	0.43	0.46	0.40	0.41	0.38	0.35	0.81	0.51	0.35	0.33	0.66	
26	0.37	0.41	0.61	0.40	0.40	0.38	0.35	0.79	0.49	0.35	0.32	0.97	
27	0.37	0.49	0.49	0.40	0.40	0.39	0.35	0.78	0.49	0.35	0.32	0.96	
28	0.37	0.44	0.49	0.40	0.41	0.38	0.35	0.76	0.49	0.36	0.31	0.97	
29	0.37	0.44	0.49	0.39	0.41	0.39	0.49	0.90	0.49	0.36	0.30	0.93	
30	0.37	0.44	0.47	0.40	0.40	0.38	0.48	1.83	0.48	0.36		0.91	
31		0.44		0.40	0.39		0.42		0.46	0.34		0.90	
MEAN	0.37	0.40	0.47	0.43	0.40	0.39	0.38	1.14	0.63	0.37	0.37	0.44	
MAX	0.40	0.49	0.61	0.48	0.42	0.47	0.49	2.86	1.07	0.45	0.52	0.97	2.86
MIN	0.32	0.30	0.41	0.39	0.39	0.38	0.35	0.47	0.46	0.33	0.30	0.24	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.20 M (A.D), AT 15.00 HOURS, ON NOV 9, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.13 M (A.D)
LEFT BANK ELEVATION 6.13 M (A.D)
RIGHT BANK ELEVATION 5.08 M (A.D), DRAINAGE AREA 26 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.18	0.24	0.34	0.20	0.19	0.17	0.40	3.53	0.30	0.15	0.10	
2	0.19	0.17	0.24	0.32	0.20	0.19	0.17	0.50	2.41	0.28	0.14	0.09	
3	0.18	0.17	0.24	0.30	0.19	0.19	0.17	0.34	2.02	0.26	0.14	0.06	
4	0.17	0.10	0.22	0.32	0.20	0.19	0.16	1.60	1.66	0.24	0.14	0.06	
5	0.17	0.18	0.22	0.34	0.22	0.19	0.16	16.49	1.48	0.22	0.14	0.06	
6	0.16	0.19	0.32	0.36	0.22	0.19	0.16	4.16	1.24	0.22	0.14	0.05	
7	0.16	0.28	0.32	0.34	0.22	0.18	0.16	7.45	1.06	0.22	0.12	0.05	
8	0.16	0.19	0.30	0.32	0.20	0.19	0.26	9.01	1.00	0.22	0.11	0.05	
9	0.16	0.19	0.32	0.28	0.20	0.19	0.24	32.60	0.96	0.17	0.11	0.05	
10	0.15	0.18	0.46	0.28	0.22	0.18	0.22	21.36	0.88	0.16	0.10	0.04	
11	0.15	0.18	0.30	0.28	0.24	0.18	0.22	6.69	0.80	0.16	0.11	0.04	
12	0.13	0.18	0.28	0.26	0.20	0.18	0.20	5.10	0.76	0.16	0.11	0.04	
13	0.12	0.18	0.28	0.24	0.20	0.18	0.20	4.80	0.72	0.16	0.11	0.04	
14	0.12	0.18	0.30	0.24	0.19	0.18	0.18	3.80	0.72	0.16	0.11	0.04	
15	0.12	0.18	0.38	0.24	0.19	0.26	0.17	3.80	0.64	0.15	0.00	0.00	
16	0.14	0.18	0.34	0.24	0.19	0.24	0.17	2.99	0.64	0.15	0.00	0.00	
17	0.18	0.18	0.32	0.30	0.19	0.19	0.17	2.41	0.58	0.15	0.00	0.00	
18	0.20	0.18	0.32	0.26	0.20	0.19	0.17	2.20	0.54	0.15	0.00	0.00	
19	0.19	0.18	0.56	0.24	0.20	0.34	0.17	2.14	0.52	0.14	0.00	0.00	
20	0.19	0.24	0.60	0.26	0.20	0.24	0.16	3.89	0.52	0.14	0.00	0.00	
21	0.19	0.19	0.42	0.26	0.20	0.20	0.16	2.76	0.48	0.13	0.00	0.00	
22	0.18	0.26	0.40	0.24	0.20	0.20	0.16	2.27	0.48	0.16	0.00	0.00	
23	0.18	0.22	0.36	0.22	0.20	0.19	0.16	1.96	0.46	0.16	0.00	0.00	
24	0.17	0.32	0.32	0.20	0.22	0.19	0.16	1.84	0.46	0.14	0.00	0.00	
25	0.17	0.26	0.32	0.20	0.22	0.18	0.15	1.66	0.42	0.15	0.13	0.00	
26	0.17	0.22	0.64	0.20	0.20	0.18	0.15	1.54	0.38	0.15	0.12	0.00	
27	0.17	0.38	0.38	0.20	0.20	0.19	0.15	1.48	0.38	0.15	0.12	0.00	
28	0.17	0.28	0.38	0.20	0.22	0.18	0.15	1.36	0.38	0.16	0.11	0.00	
29	0.17	0.28	0.38	0.19	0.22	0.19	0.38	2.20	0.38	0.16	0.10	0.00	
30	0.17	0.28	0.34	0.20	0.20	0.18	0.36	12.58	0.36	0.16		0.00	
31		0.28		0.20	0.19		0.24		0.32	0.14		0.00	
TOTAL	4.98	6.66	10.50	8.07	6.34	5.94	5.90	161.38	27.18	5.47	2.31	0.77	245.50 CMSDAY
MEAN	0.17	0.21	0.35	0.26	0.20	0.20	0.19	5.38	0.88	0.18	0.08	0.02	0.67 CMS
MAX	0.20	0.38	0.64	0.36	0.24	0.34	0.38	32.60	3.53	0.30	0.15	0.10	32.60 CMS
MIN	0.12	0.10	0.22	0.19	0.19	0.18	0.15	0.34	0.32	0.13	0.00	0.00	0.00 CMS
RUNOFF	0.430	0.575	0.907	0.697	0.548	0.513	0.510	13.943	2.348	0.473	0.200	0.067	21.211 MCM

MOMENTARY PEAK 75.40 CMS, AT 4.20 M (A.D), AT 15.00 HOURS, ON NOV 9, 1987

RUNOFF YIELD 25.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2900.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

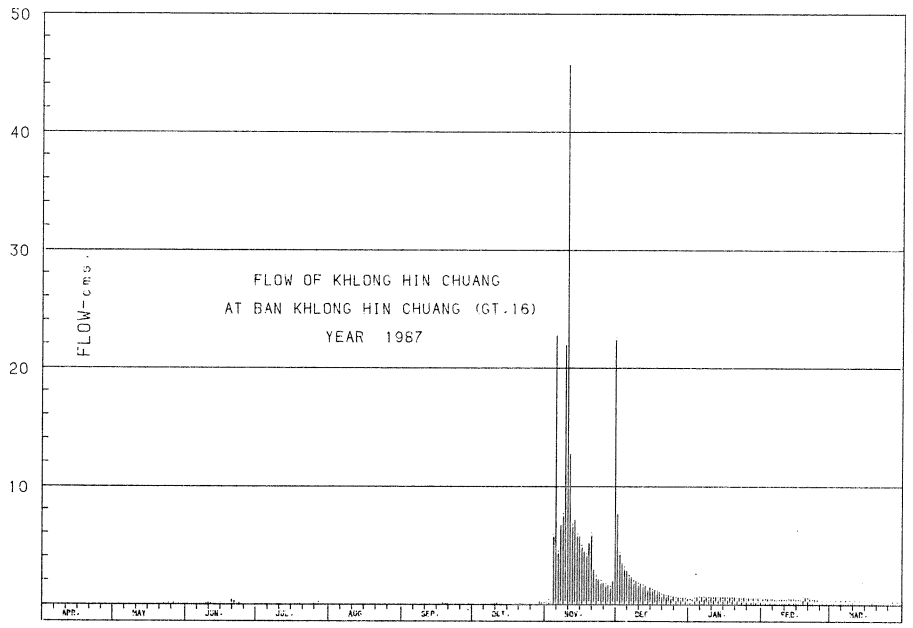
KHLONG HIN CHUANG AT BAN HIN CHUANG, PRACHUAP KHIRI KHAN (GT.16)

LOCATION	LAT. 11°39'57" N., LONG. 99°41'18" E., ON RIGHT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 343, TAMBON HUAI SAI, AMPHOE MUANG, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	47 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+7.879 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 63 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.29	0.33	0.38	0.35	0.32	0.34	0.48	1.81	1.11	1.11	1.08	
2	0.30	0.29	0.31	0.38	0.35	0.32	0.33	0.59	1.65	1.10	1.11	1.08	
3	0.30	0.28	0.33	0.37	0.34	0.31	0.32	0.51	1.55	1.13	1.11	1.08	
4	0.30	0.29	0.32	0.38	0.32	0.31	0.32	1.62	1.52	1.14	1.11	1.08	
5	0.30	0.29	0.31	0.38	0.33	0.31	0.32	2.98	1.48	1.15	1.11	1.08	
6	0.30	0.29	0.34	0.39	0.33	0.31	0.33	1.43	1.44	1.15	1.10	1.08	
7	0.30	0.29	0.38	0.38	0.32	0.31	0.33	1.71	1.42	1.15	1.10	1.08	
8	0.30	0.29	0.40	0.38	0.31	0.31	0.34	1.82	1.39	1.14	1.10	1.08	
9	0.30	0.29	0.37	0.38	0.31	0.31	0.35	2.93	1.38	1.14	1.10	1.08	
10	0.30	0.29	0.43	0.37	0.31	0.31	0.35	3.93	1.36	1.14	1.10	1.08	
11	0.30	0.29	0.37	0.37	0.31	0.31	0.39	2.30	1.35	1.14	1.10	1.08	
12	0.29	0.29	0.36	0.36	0.32	0.31	0.37	1.72	1.34	1.14	1.11	1.07	
13	0.29	0.29	0.36	0.35	0.31	0.31	0.35	1.76	1.32	1.14	1.11	1.07	
14	0.29	0.29	0.36	0.35	0.30	0.30	0.34	1.62	1.30	1.14	1.11	1.07	
15	0.29	0.29	0.44	0.35	0.31	0.30	0.33	1.59	1.30	1.14	1.10	1.07	
16	0.29	0.29	0.42	0.35	0.30	0.33	0.33	1.50	1.28	1.14	1.10	1.07	
17	0.30	0.29	0.38	0.36	0.31	0.33	0.33	1.42	1.26	1.14	1.09	1.07	
18	0.29	0.29	0.38	0.36	0.31	0.47	0.33	1.40	1.25	1.14	1.15	1.06	
19	0.29	0.30	0.40	0.35	0.31	0.57	0.33	1.52	1.23	1.14	1.13	1.06	
20	0.29	0.30	0.59	0.35	0.31	0.45	0.33	1.63	1.20	1.14	1.13	1.06	
21	0.29	0.30	0.53	0.34	0.31	0.44	0.33	1.49	1.19	1.13	1.11	1.06	
22	0.29	0.39	0.48	0.33	0.31	0.38	0.33	1.44	1.18	1.13	1.10	1.05	
23	0.29	0.35	0.43	0.33	0.31	0.37	0.32	1.40	1.17	1.13	1.10	1.05	
24	0.29	0.48	0.39	0.33	0.35	0.36	0.32	1.39	1.16	1.13	1.09	1.05	
25	0.29	0.42	0.42	0.32	0.37	0.35	0.32	1.36	1.15	1.12	1.08	1.05	
26	0.29	0.52	0.43	0.37	0.36	0.34	0.32	1.35	1.14	1.12	1.08	1.05	
27	0.29	0.44	0.39	0.50	0.35	0.35	0.32	1.33	1.13	1.12	1.08	1.05	
28	0.29	0.38	0.39	0.40	0.34	0.38	0.32	1.32	1.13	1.12	1.08	1.05	
29	0.29	0.40	0.44	0.37	0.34	0.38	0.54	1.38	1.13	1.12	1.08	1.05	
30	0.29	0.36	0.39	0.36	0.33	0.35	0.46	2.97	1.13	1.12		1.05	
31		0.35		0.36	0.33		0.43		1.11	1.12		1.05	
MEAN	0.29	0.33	0.40	0.37	0.32	0.35	0.35	1.66	1.30	1.13	1.10	1.07	
MAX	0.30	0.52	0.59	0.50	0.37	0.57	0.54	3.93	1.81	1.15	1.15	1.08	3.93
MIN	0.29	0.28	0.31	0.32	0.30	0.30	0.32	0.48	1.11	1.10	1.08	1.05	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.00 M (A.D), AT 9.00 HOURS, ON NOV 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.25 M (A.D)
LEFT BANK ELEVATION 6.30 M (A.D)
RIGHT BANK ELEVATION 6.34 M (A.D), DRAINAGE AREA 47 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.01	0.04	0.08	0.05	0.03	0.05	0.18	7.60	0.45	0.45	0.32	
2	0.01	0.01	0.02	0.08	0.05	0.03	0.04	0.38	4.40	0.40	0.45	0.32	
3	0.01	0.01	0.04	0.07	0.05	0.02	0.03	0.22	3.45	0.55	0.45	0.32	
4	0.01	0.01	0.03	0.08	0.03	0.02	0.03	5.96	3.18	0.60	0.45	0.32	
5	0.01	0.01	0.02	0.08	0.04	0.02	0.03	22.76	2.82	0.65	0.45	0.32	
6	0.01	0.01	0.05	0.09	0.04	0.02	0.04	4.51	2.46	0.65	0.40	0.32	
7	0.01	0.01	0.08	0.08	0.03	0.02	0.04	6.69	2.28	0.65	0.40	0.32	
8	0.01	0.01	0.10	0.08	0.02	0.02	0.05	7.70	2.03	0.60	0.40	0.32	
9	0.01	0.01	0.07	0.08	0.02	0.02	0.05	21.91	1.96	0.60	0.40	0.32	
10	0.01	0.01	0.13	0.07	0.02	0.02	0.05	45.92	1.82	0.60	0.40	0.32	
11	0.01	0.01	0.07	0.07	0.02	0.02	0.09	12.70	1.75	0.60	0.40	0.32	
12	0.01	0.01	0.06	0.06	0.03	0.02	0.07	6.78	1.68	0.60	0.45	0.28	
13	0.01	0.01	0.06	0.05	0.02	0.02	0.05	7.14	1.54	0.60	0.45	0.28	
14	0.01	0.01	0.06	0.05	0.01	0.01	0.05	5.96	1.40	0.60	0.45	0.28	
15	0.01	0.01	0.14	0.05	0.02	0.01	0.04	5.72	1.40	0.60	0.40	0.28	
16	0.01	0.01	0.12	0.05	0.01	0.04	0.04	5.00	1.30	0.60	0.40	0.28	
17	0.01	0.01	0.08	0.06	0.02	0.04	0.04	4.44	1.20	0.60	0.36	0.28	
18	0.01	0.01	0.08	0.06	0.02	0.17	0.04	4.30	1.15	0.60	0.65	0.24	
19	0.01	0.01	0.10	0.05	0.02	0.34	0.04	5.16	1.05	0.60	0.55	0.24	
20	0.01	0.01	0.38	0.05	0.02	0.15	0.04	6.04	0.90	0.60	0.55	0.24	
21	0.01	0.01	0.26	0.05	0.02	0.14	0.04	2.91	0.85	0.55	0.45	0.24	
22	0.01	0.09	0.18	0.04	0.02	0.08	0.04	2.46	0.80	0.55	0.40	0.20	
23	0.01	0.05	0.13	0.04	0.02	0.07	0.03	2.10	0.75	0.55	0.40	0.20	
24	0.01	0.18	0.09	0.04	0.05	0.06	0.03	2.03	0.70	0.55	0.36	0.20	
25	0.01	0.12	0.12	0.03	0.07	0.05	0.03	1.82	0.65	0.50	0.32	0.20	
26	0.01	0.24	0.13	0.07	0.06	0.05	0.03	1.75	0.60	0.50	0.32	0.20	
27	0.01	0.14	0.09	0.20	0.05	0.05	0.03	1.61	0.55	0.50	0.32	0.20	
28	0.01	0.08	0.09	0.10	0.05	0.08	0.03	1.54	0.55	0.50	0.32	0.20	
29	0.01	0.10	0.14	0.07	0.05	0.08	0.28	1.96	0.55	0.50	0.32	0.20	
30	0.01	0.06	0.09	0.06	0.04	0.05	0.16	22.59	0.55	0.50		0.20	
31		0.05		0.06	0.04		0.13		0.45	0.50		0.20	
TOTAL	0.30	1.32	3.05	2.10	1.01	1.75	1.74	220.24	52.37	17.45	12.12	8.16	321.61 CMSDAY
MEAN	0.01	0.04	0.10	0.07	0.03	0.06	0.06	7.34	1.69	0.56	0.42	0.26	0.88 CMS
MAX	0.01	0.24	0.38	0.20	0.07	0.34	0.28	45.92	7.60	0.65	0.65	0.32	45.92 CMS
MIN	0.01	0.01	0.02	0.03	0.01	0.01	0.03	0.18	0.45	0.40	0.32	0.20	0.01 CMS
RUNOFF	0.026	0.114	0.264	0.181	0.087	0.151	0.150	19.029	4.525	1.508	1.047	0.705	27.787 MCM

MOMENTARY PEAK 99.00 CMS, AT 5.00 M (A.D), AT 9.00 HOURS, ON NOV 10, 1987
RUNOFF YIELD 18.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2106.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

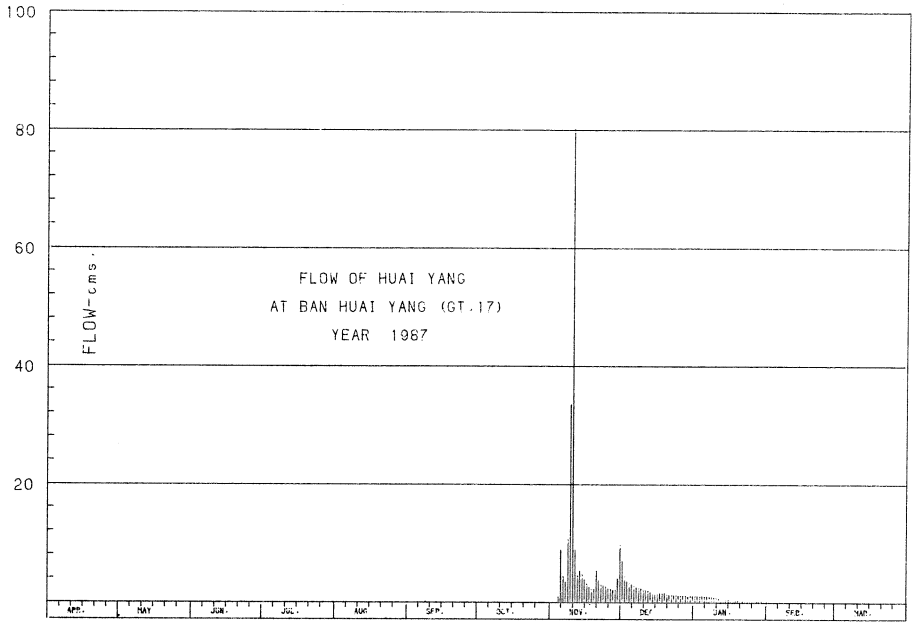
HUAI YANG AT BAN HUAI YANG, PRACHUAP KHIRI KHAN (GT.17)

LOCATION	LAT. 11°-36'-49" N., LONG. 99°-40'-10" E., ON RIGHT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 349, TAMBON HUAI YANG, AMPHOE THAP SAKAE, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	50 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+5.965 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.29	0.29	0.33	0.34	0.30	0.29	0.36	1.20	0.67	0.51	0.49	
2	0.30	0.29	0.28	0.33	0.33	0.30	0.29	0.37	1.01	0.67	0.51	0.49	
3	0.30	0.29	0.28	0.33	0.33	0.30	0.29	0.35	0.94	0.67	0.51	0.49	
4	0.30	0.29	0.28	0.34	0.33	0.29	0.29	0.68	0.91	0.67	0.51	0.49	
5	0.30	0.29	0.28	0.34	0.33	0.28	0.29	1.31	0.89	0.66	0.51	0.49	
6	0.30	0.29	0.28	0.34	0.33	0.28	0.29	1.01	0.86	0.66	0.51	0.49	
7	0.30	0.29	0.29	0.34	0.33	0.28	0.29	0.93	0.84	0.65	0.51	0.49	
8	0.30	0.29	0.29	0.35	0.34	0.28	0.29	1.41	0.83	0.65	0.50	0.49	
9	0.30	0.29	0.29	0.35	0.34	0.28	0.30	2.40	0.82	0.64	0.50	0.49	
10	0.30	0.29	0.29	0.35	0.34	0.28	0.30	3.61	0.80	0.63	0.50	0.49	
11	0.30	0.29	0.29	0.35	0.33	0.28	0.30	1.31	0.79	0.61	0.49	0.49	
12	0.30	0.29	0.29	0.35	0.33	0.28	0.30	1.02	0.78	0.59	0.49	0.49	
13	0.30	0.29	0.29	0.35	0.33	0.28	0.30	1.08	0.75	0.59	0.49	0.49	
14	0.30	0.29	0.29	0.35	0.33	0.28	0.29	1.03	0.71	0.59	0.49	0.49	
15	0.30	0.29	0.29	0.35	0.33	0.28	0.29	0.97	0.70	0.60	0.49	0.49	
16	0.30	0.29	0.30	0.35	0.33	0.28	0.29	0.90	0.71	0.59	0.49	0.49	
17	0.29	0.29	0.30	0.35	0.33	0.28	0.29	0.85	0.73	0.58	0.49	0.49	
18	0.29	0.28	0.30	0.35	0.33	0.29	0.29	0.81	0.73	0.57	0.50	0.49	
19	0.29	0.28	0.30	0.34	0.33	0.29	0.29	0.81	0.73	0.56	0.50	0.48	
20	0.29	0.28	0.50	0.34	0.33	0.29	0.29	1.08	0.71	0.57	0.50	0.48	
21	0.29	0.28	0.43	0.34	0.32	0.29	0.29	0.95	0.70	0.54	0.50	0.47	
22	0.29	0.28	0.40	0.34	0.32	0.29	0.29	0.88	0.69	0.52	0.50	0.47	
23	0.29	0.28	0.32	0.34	0.32	0.29	0.29	0.87	0.69	0.53	0.50	0.46	
24	0.29	0.28	0.32	0.34	0.32	0.29	0.29	0.85	0.69	0.53	0.49	0.45	
25	0.29	0.28	0.33	0.34	0.31	0.29	0.29	0.82	0.68	0.52	0.49	0.44	
26	0.29	0.28	0.36	0.34	0.31	0.29	0.29	0.81	0.68	0.52	0.49	0.44	
27	0.29	0.28	0.32	0.34	0.31	0.29	0.29	0.79	0.68	0.52	0.49	0.44	
28	0.29	0.28	0.32	0.34	0.31	0.30	0.29	0.79	0.68	0.54	0.49	0.44	
29	0.29	0.28	0.32	0.34	0.31	0.29	0.30	0.98	0.66	0.53	0.49	0.43	
30	0.29	0.29	0.33	0.34	0.30	0.29	0.35	1.36	0.67	0.52		0.43	
31		0.29		0.34	0.30		0.31		0.67	0.51		0.43	
MEAN	0.30	0.29	0.31	0.34	0.32	0.29	0.29	1.05	0.77	0.59	0.50	0.47	
MAX	0.30	0.29	0.50	0.35	0.34	0.30	0.35	3.61	1.20	0.67	0.51	0.49	3.61
MIN	0.29	0.28	0.28	0.33	0.30	0.28	0.29	0.35	0.66	0.51	0.49	0.43	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.30 M (A.D), AT 9.00 HOURS, ON NOV 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.26 M (A.D)
LEFT BANK ELEVATION 4.97 M (A.D)
RIGHT BANK ELEVATION 4.97 M (A.D), DRAINAGE AREA 50 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.01	7.00	1.03	0.08	0.03	
2	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.01	4.38	1.03	0.08	0.03	
3	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.01	3.56	1.03	0.08	0.03	
4	0.01	0.00	0.00	0.01	0.01	0.00	0.00	1.10	3.22	1.03	0.08	0.03	
5	0.01	0.00	0.00	0.01	0.01	0.00	0.00	8.87	3.00	0.95	0.08	0.03	
6	0.01	0.00	0.00	0.01	0.01	0.00	0.00	4.38	2.70	0.95	0.08	0.03	
7	0.01	0.00	0.00	0.01	0.01	0.00	0.00	3.45	2.50	0.87	0.08	0.03	
8	0.01	0.00	0.00	0.01	0.01	0.00	0.00	10.59	2.40	0.87	0.03	0.03	
9	0.01	0.00	0.00	0.01	0.01	0.00	0.01	33.50	2.30	0.80	0.03	0.03	
10	0.01	0.00	0.00	0.01	0.01	0.00	0.01	80.15	2.10	0.72	0.03	0.03	
11	0.01	0.00	0.00	0.01	0.01	0.00	0.01	8.87	2.02	0.58	0.03	0.03	
12	0.01	0.00	0.00	0.01	0.01	0.00	0.01	4.52	1.93	0.45	0.03	0.03	
13	0.01	0.00	0.00	0.01	0.01	0.00	0.01	5.33	1.67	0.45	0.03	0.03	
14	0.01	0.00	0.00	0.01	0.01	0.00	0.00	4.65	1.33	0.45	0.03	0.03	
15	0.01	0.00	0.00	0.01	0.01	0.00	0.00	3.91	1.25	0.50	0.03	0.03	
16	0.01	0.00	0.01	0.01	0.01	0.00	0.00	3.10	1.33	0.45	0.03	0.03	
17	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.60	1.51	0.41	0.03	0.03	
18	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.20	1.51	0.36	0.03	0.03	
19	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.20	1.51	0.31	0.03	0.03	
20	0.00	0.00	0.03	0.01	0.01	0.00	0.00	5.33	1.33	0.36	0.03	0.03	
21	0.00	0.00	0.02	0.01	0.01	0.00	0.00	3.68	1.25	0.22	0.03	0.03	
22	0.00	0.00	0.02	0.01	0.01	0.00	0.00	2.90	1.18	0.12	0.03	0.03	
23	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.80	1.18	0.17	0.03	0.03	
24	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.60	1.18	0.17	0.03	0.02	
25	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.30	1.10	0.12	0.03	0.02	
26	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.20	1.10	0.12	0.03	0.02	
27	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.02	1.10	0.12	0.03	0.02	
28	0.00	0.00	0.01	0.01	0.01	0.01	0.00	2.02	1.10	0.22	0.03	0.02	
29	0.00	0.00	0.01	0.01	0.01	0.00	0.01	4.02	0.95	0.17	0.03	0.02	
30	0.00	0.00	0.01	0.01	0.01	0.00	0.01	9.72	1.03	0.12		0.02	
31		0.00		0.01	0.01		0.01		1.03	0.08		0.02	
TOTAL	0.16	0.00	0.19	0.31	0.31	0.04	0.08	219.04	60.75	15.23	1.22	0.85	298.18 CMSDAY
MEAN	0.01	0.00	0.01	0.01	0.01	0.00	0.00	7.30	1.96	0.49	0.04	0.03	0.81 CMS
MAX	0.01	0.00	0.03	0.01	0.01	0.01	0.01	80.15	7.00	1.03	0.08	0.03	80.15 CMS
MIN	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.95	0.08	0.03	0.02	0.00 CMS
RUNOFF	0.014	0.000	0.016	0.027	0.027	0.003	0.007	18.925	5.249	1.316	0.105	0.073	25.763 MCM

MOMENTARY PEAK 114.50 CMS, AT 4.30 M (A.D), AT 9.00 HOURS, ON NOV 10, 1987

RUNOFF YIELD 16.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2290.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

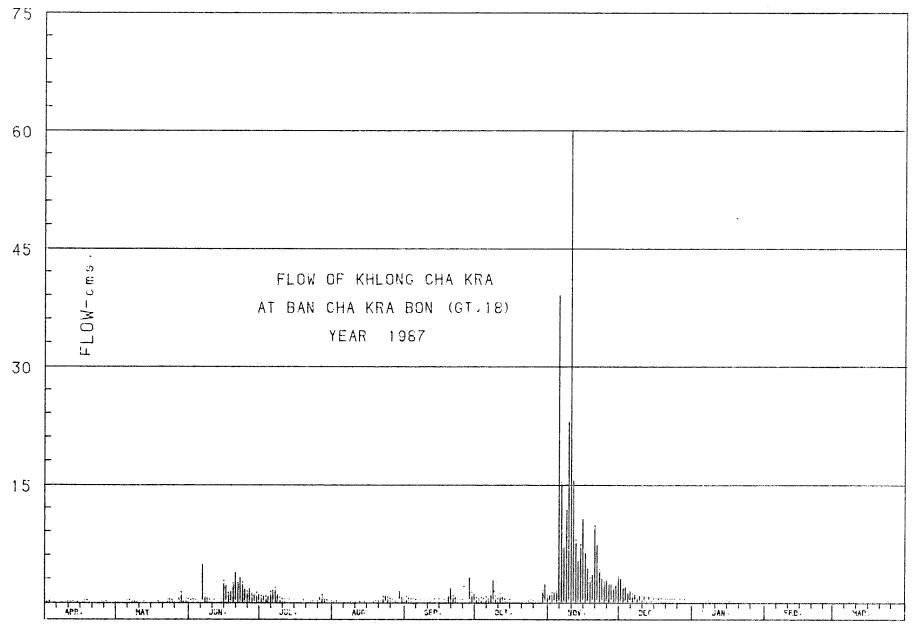
KHLONG CHA KRA AT BAN CHA KRA BON, PRACHUAP KHIRI KHAN (GT.18)

LOCATION	LAT.11°-26'-46" N., LONG. 99°-34'-10" E., ON LEFT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 371, TAMBON NA HU KWANG, AMPHOE THAP SAKAE, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	93 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+5.421 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 82 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.48	0.60	0.78	0.56	0.76	0.73	0.78	1.21	0.60	0.51	0.45	
2	0.50	0.45	0.66	0.75	0.54	0.70	0.66	0.87	1.06	0.60	0.51	0.45	
3	0.48	0.49	0.60	0.77	0.55	0.67	0.73	0.86	0.99	0.59	0.51	0.45	
4	0.47	0.49	0.56	0.74	0.54	0.65	0.69	0.91	0.93	0.59	0.51	0.45	
5	0.47	0.55	0.54	0.89	0.53	0.62	0.75	4.09	0.89	0.58	0.51	0.44	
6	0.46	0.58	1.51	0.92	0.61	0.62	0.66	2.83	0.84	0.57	0.52	0.44	
7	0.44	0.53	0.82	0.99	0.54	0.60	0.88	1.82	0.80	0.57	0.52	0.43	
8	0.41	0.50	0.71	0.79	0.51	0.59	1.16	2.43	0.78	0.57	0.52	0.47	
9	0.44	0.50	0.64	0.73	0.50	0.59	0.77	3.57	0.76	0.57	0.51	0.45	
10	0.46	0.49	0.62	0.69	0.48	0.60	0.70	4.43	0.75	0.57	0.51	0.45	
11	0.50	0.51	0.61	0.65	0.51	0.64	0.84	2.85	0.75	0.57	0.50	0.43	
12	0.48	0.49	0.57	0.64	0.48	0.63	0.73	1.96	0.72	0.57	0.50	0.43	
13	0.46	0.47	0.57	0.61	0.48	0.65	0.66	1.57	0.74	0.57	0.50	0.43	
14	0.44	0.46	0.65	0.60	0.47	0.63	0.64	1.88	0.73	0.56	0.50	0.43	
15	0.40	0.44	1.17	0.58	0.46	0.65	0.63	2.29	0.71	0.56	0.50	0.42	
16	0.50	0.46	1.04	0.59	0.45	0.61	0.62	1.77	0.69	0.56	0.49	0.41	
17	0.55	0.51	0.86	0.63	0.47	0.61	0.60	1.43	0.68	0.55	0.49	0.40	
18	0.57	0.51	0.88	0.65	0.48	0.60	0.59	1.23	0.69	0.55	0.52	0.40	
19	0.53	0.46	1.11	0.61	0.54	0.84	0.57	1.29	0.67	0.55	0.52	0.40	
20	0.50	0.46	1.34	0.60	0.51	0.96	0.55	2.19	0.67	0.55	0.50	0.40	
21	0.50	0.50	1.10	0.58	0.54	0.79	0.55	1.86	0.66	0.55	0.48	0.40	
22	0.51	0.61	1.23	0.56	0.76	0.72	0.56	1.41	0.67	0.55	0.48	0.39	
23	0.50	0.65	1.13	0.55	0.77	0.66	0.54	1.21	0.66	0.54	0.50	0.38	
24	0.48	0.60	0.94	0.55	0.74	0.64	0.60	1.13	0.65	0.53	0.48	0.51	
25	0.49	0.53	0.90	0.53	0.69	0.62	0.56	1.17	0.64	0.52	0.48	0.45	
26	0.48	0.54	0.96	0.72	0.63	0.60	0.55	1.16	0.65	0.51	0.47	0.41	
27	0.44	0.69	0.82	0.81	0.59	0.60	0.54	1.07	0.65	0.50	0.46	0.39	
28	0.40	0.88	0.78	0.63	0.63	1.23	0.53	1.03	0.63	0.50	0.46	0.39	
29	0.36	0.53	0.87	0.60	0.89	0.87	0.93	1.03	0.63	0.52	0.46	0.39	
30	0.47	0.68	0.80	0.59	0.72	0.81	1.07	1.27	0.62	0.53		0.38	
31		0.66		0.56	0.65		0.80		0.61	0.52		0.39	
MEAN	0.47	0.54	0.85	0.67	0.57	0.69	0.69	1.78	0.75	0.55	0.50	0.42	
MAX	0.57	0.88	1.51	0.99	0.89	1.23	1.16	4.43	1.21	0.60	0.52	0.51	4.43
MIN	0.36	0.44	0.54	0.53	0.45	0.59	0.53	0.78	0.61	0.50	0.46	0.38	0.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.80 M (A.D), AT 15.40 HOURS, ON NOV 5, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.29 M (A.D)
LEFT BANK ELEVATION 4.35 M (A.D)
RIGHT BANK ELEVATION 4.24 M (A.D), DRAINAGE AREA 93 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.17	0.40	0.92	0.32	0.84	0.72	0.92	3.06	0.40	0.22	0.13	
2	0.20	0.13	0.52	0.80	0.28	0.60	0.52	1.35	2.30	0.40	0.22	0.13	
3	0.17	0.19	0.40	0.88	0.30	0.54	0.72	1.30	1.95	0.38	0.22	0.13	
4	0.16	0.19	0.32	0.76	0.28	0.50	0.58	1.55	1.65	0.38	0.22	0.13	
5	0.16	0.30	0.28	1.45	0.26	0.44	0.80	39.05	1.45	0.36	0.22	0.12	
6	0.15	0.36	4.87	1.60	0.42	0.44	0.52	15.37	1.20	0.34	0.24	0.12	
7	0.12	0.26	1.10	1.95	0.28	0.40	1.40	7.04	1.00	0.34	0.24	0.11	
8	0.08	0.20	0.64	0.96	0.22	0.38	2.80	11.77	0.92	0.34	0.24	0.16	
9	0.12	0.20	0.48	0.72	0.20	0.38	0.88	23.05	0.84	0.34	0.22	0.13	
10	0.15	0.19	0.44	0.58	0.17	0.40	0.60	60.40	0.80	0.34	0.22	0.13	
11	0.20	0.22	0.42	0.50	0.22	0.48	1.20	15.55	0.80	0.34	0.20	0.11	
12	0.17	0.19	0.34	0.48	0.17	0.46	0.72	8.02	0.68	0.34	0.20	0.11	
13	0.15	0.16	0.34	0.42	0.17	0.50	0.52	5.29	0.76	0.34	0.20	0.11	
14	0.12	0.15	0.50	0.40	0.16	0.46	0.48	7.46	0.72	0.32	0.20	0.11	
15	0.07	0.12	2.85	0.36	0.15	0.50	0.46	10.62	0.64	0.32	0.20	0.09	
16	0.20	0.15	2.20	0.38	0.13	0.42	0.44	6.69	0.58	0.32	0.19	0.08	
17	0.30	0.22	1.30	0.46	0.16	0.42	0.40	4.38	0.56	0.30	0.19	0.07	
18	0.34	0.22	1.40	0.50	0.17	0.40	0.38	3.18	0.58	0.30	0.24	0.07	
19	0.26	0.15	2.55	0.42	0.28	1.20	0.34	3.54	0.54	0.30	0.24	0.07	
20	0.20	0.15	3.84	0.40	0.22	1.80	0.30	9.82	0.54	0.30	0.20	0.07	
21	0.20	0.20	2.50	0.36	0.28	0.96	0.30	7.32	0.52	0.30	0.17	0.07	
22	0.22	0.42	3.18	0.32	0.84	0.68	0.32	4.26	0.54	0.30	0.17	0.05	
23	0.20	0.50	2.65	0.30	0.88	0.52	0.28	3.06	0.52	0.28	0.20	0.04	
24	0.17	0.40	1.70	0.30	0.76	0.48	0.40	2.65	0.50	0.26	0.17	0.22	
25	0.19	0.26	1.50	0.26	0.58	0.44	0.32	2.85	0.48	0.24	0.17	0.13	
26	0.17	0.28	1.80	0.68	0.46	0.40	0.30	2.80	0.50	0.22	0.16	0.08	
27	0.12	0.58	1.10	1.05	0.38	0.40	0.28	2.35	0.50	0.20	0.15	0.05	
28	0.07	1.40	0.92	0.46	0.46	3.18	0.26	2.15	0.46	0.20	0.15	0.05	
29	0.01	0.26	1.35	0.40	1.45	1.35	1.65	2.15	0.46	0.24	0.15	0.05	
30	0.16	0.56	1.00	0.38	0.68	1.05	2.35	3.42	0.44	0.26		0.04	
31		0.52		0.32	0.50		1.00		0.42	0.24		0.05	
TOTAL	5.03	9.30	42.89	19.77	11.83	21.02	22.24	269.36	26.91	9.54	5.81	3.01	446.71 CMSDAY
MEAN	0.17	0.30	1.43	0.64	0.38	0.70	0.72	8.98	0.87	0.31	0.20	0.10	1.22 CMS
MAX	0.34	1.40	4.87	1.95	1.45	3.18	2.80	60.40	3.06	0.40	0.24	0.22	60.40 CMS
MIN	0.01	0.12	0.28	0.26	0.13	0.38	0.26	0.92	0.42	0.20	0.15	0.04	0.01 CMS
RUNOFF	0.435	0.804	3.706	1.708	1.022	1.816	1.922	23.273	2.325	0.824	0.502	0.260	38.596 MCM

MOMENTARY PEAK 93.20 CMS, AT 4.80 M (A.D), AT 15.40 HOURS, ON NOV 5, 1987
RUNOFF YIELD 13.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1002.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

WEST COAST-GULF BASIN

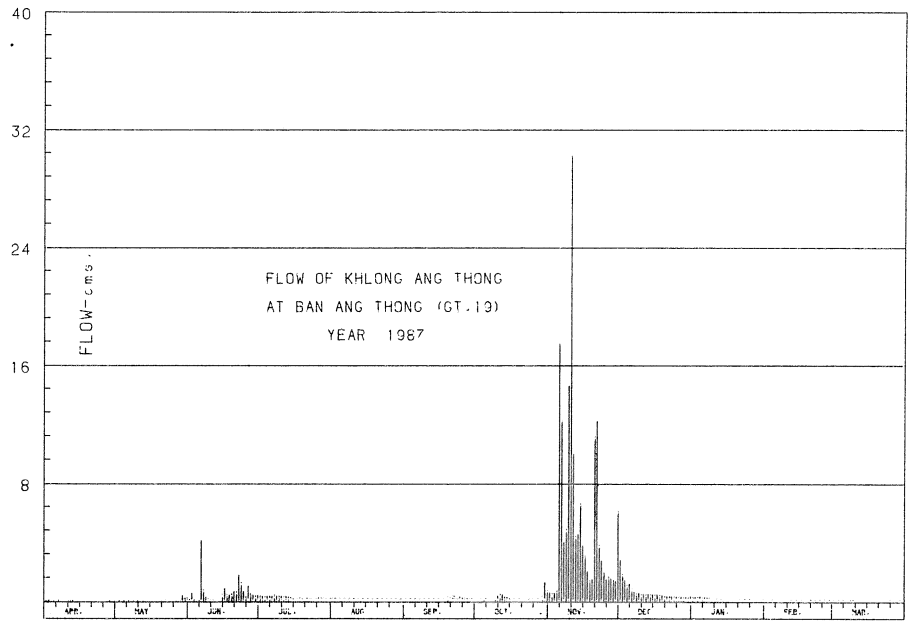
KHLONG ANG THONG AT BAN ANG THONG, PRACHUAP KHIRI KHAN (GT.19)

LOCATION	LAT. 11°-26'-08" N., LONG. 99°-33'-52" E., ON LEFT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 373, TAMBON ANG THONG, AMPHOE THAP SAKAE, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	56 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.973 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	1987 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 74 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.17	0.23	0.33	0.27	0.26	0.26	0.40	0.82	0.31	0.23	0.22	
2	0.20	0.17	0.39	0.32	0.27	0.26	0.26	0.39	0.66	0.31	0.23	0.22	
3	0.20	0.17	0.23	0.32	0.27	0.26	0.26	0.39	0.59	0.31	0.23	0.22	
4	0.20	0.17	0.21	0.32	0.27	0.26	0.26	0.44	0.53	0.31	0.23	0.22	
5	0.20	0.17	0.20	0.32	0.26	0.26	0.26	2.44	0.54	0.30	0.23	0.22	
6	0.20	0.17	1.04	0.32	0.27	0.26	0.25	2.05	0.47	0.30	0.22	0.22	
7	0.20	0.17	0.45	0.36	0.27	0.26	0.25	1.02	0.41	0.29	0.22	0.21	
8	0.20	0.17	0.30	0.33	0.27	0.26	0.25	1.17	0.39	0.28	0.22	0.21	
9	0.20	0.17	0.25	0.33	0.26	0.26	0.32	2.24	0.39	0.27	0.22	0.21	
10	0.19	0.16	0.24	0.32	0.26	0.26	0.33	3.04	0.37	0.27	0.22	0.21	
11	0.19	0.16	0.21	0.32	0.26	0.26	0.37	1.82	0.37	0.26	0.22	0.21	
12	0.19	0.16	0.20	0.32	0.26	0.26	0.36	1.09	0.37	0.26	0.22	0.21	
13	0.18	0.16	0.20	0.31	0.26	0.26	0.31	1.11	0.37	0.25	0.22	0.21	
14	0.18	0.16	0.21	0.29	0.26	0.26	0.30	1.42	0.37	0.25	0.22	0.21	
15	0.18	0.16	0.37	0.26	0.26	0.25	0.26	0.98	0.36	0.25	0.22	0.21	
16	0.18	0.16	0.47	0.25	0.26	0.25	0.26	0.87	0.36	0.24	0.22	0.21	
17	0.18	0.16	0.37	0.27	0.26	0.26	0.25	0.69	0.36	0.24	0.22	0.21	
18	0.18	0.16	0.35	0.28	0.26	0.26	0.25	0.59	0.36	0.24	0.22	0.21	
19	0.16	0.16	0.38	0.26	0.26	0.31	0.25	0.60	0.34	0.24	0.22	0.21	
20	0.16	0.16	0.42	0.26	0.26	0.28	0.24	1.94	0.33	0.24	0.22	0.21	
21	0.16	0.16	0.42	0.27	0.26	0.27	0.24	2.04	0.32	0.24	0.22	0.21	
22	0.16	0.21	0.65	0.26	0.26	0.26	0.25	0.99	0.32	0.24	0.22	0.21	
23	0.16	0.20	0.56	0.26	0.26	0.26	0.25	0.81	0.32	0.24	0.22	0.22	
24	0.16	0.21	0.42	0.26	0.26	0.31	0.25	0.68	0.32	0.24	0.22	0.22	
25	0.16	0.19	0.32	0.26	0.26	0.28	0.25	0.60	0.31	0.24	0.22	0.22	
26	0.13	0.18	0.51	0.28	0.26	0.27	0.25	0.63	0.31	0.23	0.22	0.22	
27	0.16	0.18	0.39	0.28	0.26	0.26	0.25	0.61	0.31	0.23	0.22	0.22	
28	0.16	0.17	0.35	0.27	0.26	0.28	0.25	0.59	0.31	0.23	0.22	0.22	
29	0.16	0.34	0.33	0.27	0.26	0.27	0.32	0.58	0.30	0.23	0.22	0.22	
30	0.16	0.27	0.34	0.27	0.26	0.26	0.56	1.35	0.30	0.23		0.22	
31		0.28		0.27	0.26		0.45		0.32	0.23		0.23	
MEAN	0.18	0.18	0.37	0.29	0.26	0.27	0.29	1.12	0.39	0.26	0.22	0.22	
MAX	0.20	0.34	1.04	0.36	0.27	0.31	0.56	3.04	0.82	0.31	0.23	0.23	3.04
MIN	0.13	0.16	0.20	0.25	0.26	0.25	0.24	0.39	0.30	0.23	0.22	0.21	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.62 M (A.D), AT 16.00 HOURS, ON NOV 5, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.01 M (A.D)
LEFT BANK ELEVATION 3.92 M (A.D)
RIGHT BANK ELEVATION 4.08 M (A.D), DRAINAGE AREA 56 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.07	0.16	0.39	0.24	0.22	0.22	0.60	2.82	0.33	0.16	0.14	
2	0.10	0.07	0.57	0.36	0.24	0.22	0.22	0.57	1.86	0.33	0.16	0.14	
3	0.10	0.07	0.16	0.36	0.24	0.22	0.22	0.57	1.45	0.33	0.16	0.14	
4	0.10	0.07	0.12	0.36	0.24	0.22	0.22	0.76	1.15	0.33	0.16	0.14	
5	0.10	0.07	0.10	0.36	0.22	0.22	0.22	17.40	1.20	0.30	0.16	0.14	
6	0.10	0.07	4.14	0.36	0.24	0.22	0.20	12.35	0.88	0.30	0.14	0.14	
7	0.10	0.07	0.80	0.48	0.24	0.22	0.20	4.02	0.64	0.28	0.14	0.12	
8	0.10	0.07	0.30	0.39	0.24	0.22	0.20	4.92	0.57	0.26	0.14	0.12	
9	0.10	0.07	0.20	0.39	0.22	0.22	0.36	14.62	0.57	0.24	0.14	0.12	
10	0.09	0.06	0.18	0.36	0.22	0.22	0.39	30.42	0.51	0.24	0.14	0.12	
11	0.09	0.06	0.12	0.36	0.22	0.22	0.51	10.00	0.51	0.22	0.14	0.12	
12	0.09	0.06	0.10	0.36	0.22	0.22	0.48	4.44	0.51	0.22	0.14	0.12	
13	0.08	0.06	0.10	0.33	0.22	0.22	0.33	4.56	0.51	0.20	0.14	0.12	
14	0.08	0.06	0.12	0.28	0.22	0.22	0.30	6.66	0.51	0.20	0.14	0.12	
15	0.08	0.06	0.51	0.22	0.22	0.20	0.22	3.78	0.48	0.20	0.14	0.12	
16	0.08	0.06	0.88	0.20	0.22	0.20	0.22	3.12	0.48	0.18	0.14	0.12	
17	0.08	0.06	0.51	0.24	0.22	0.22	0.20	2.04	0.48	0.18	0.14	0.12	
18	0.08	0.06	0.45	0.26	0.22	0.22	0.20	1.45	0.48	0.18	0.14	0.12	
19	0.06	0.06	0.54	0.22	0.22	0.33	0.20	1.50	0.42	0.18	0.14	0.12	
20	0.06	0.06	0.68	0.22	0.22	0.26	0.18	11.20	0.39	0.18	0.14	0.12	
21	0.06	0.06	0.68	0.24	0.22	0.24	0.18	12.24	0.36	0.18	0.14	0.12	
22	0.06	0.12	1.80	0.22	0.22	0.22	0.20	3.84	0.36	0.18	0.14	0.12	
23	0.06	0.10	1.30	0.22	0.22	0.22	0.20	2.76	0.36	0.18	0.14	0.14	
24	0.06	0.12	0.68	0.22	0.22	0.33	0.20	1.98	0.36	0.18	0.14	0.14	
25	0.06	0.09	0.36	0.22	0.22	0.26	0.20	1.50	0.33	0.18	0.14	0.14	
26	0.03	0.08	1.05	0.26	0.22	0.24	0.20	1.68	0.33	0.16	0.14	0.14	
27	0.06	0.08	0.57	0.26	0.22	0.22	0.20	1.56	0.33	0.16	0.14	0.14	
28	0.06	0.07	0.45	0.24	0.22	0.26	0.20	1.45	0.33	0.16	0.14	0.14	
29	0.06	0.42	0.39	0.24	0.22	0.24	0.36	1.40	0.30	0.16	0.14	0.14	
30	0.06	0.24	0.42	0.24	0.22	0.22	1.30	6.15	0.30	0.16		0.14	
31		0.26		0.24	0.22		0.80		0.36	0.16		0.16	
TOTAL	2.34	2.93	18.44	9.10	6.96	6.96	9.33	169.54	20.14	6.74	4.16	4.04	260.68 CMSDAY
MEAN	0.08	0.09	0.61	0.29	0.22	0.23	0.30	5.65	0.65	0.22	0.14	0.13	0.71 CMS
MAX	0.10	0.42	4.14	0.48	0.24	0.33	1.30	30.42	2.82	0.33	0.16	0.16	30.42 CMS
MIN	0.03	0.06	0.10	0.20	0.22	0.20	0.18	0.57	0.30	0.16	0.14	0.12	0.03 CMS
RUNOFF	0.202	0.253	1.593	0.786	0.601	0.601	0.806	14.648	1.740	0.582	0.359	0.349	22.523 MCM

MOMENTARY PEAK 49.76 CMS, AT 3.62 M (A.D), AT 16.00 HOURS, ON NOV 5, 1987

RUNOFF YIELD 12.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 888.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

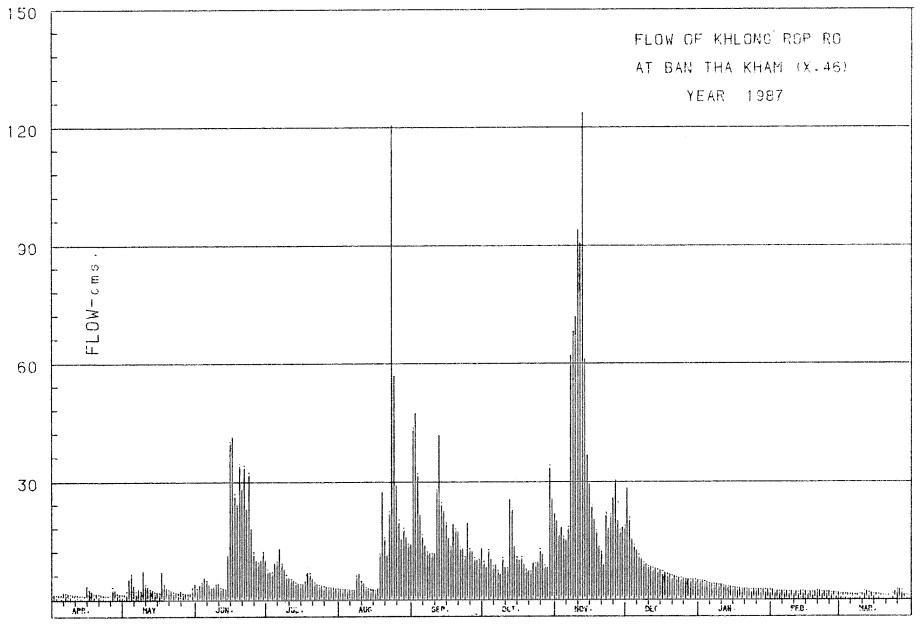
KHLONG RAP RO AT BAN THA KHAM, CHUMPHON (X.46)

LOCATION	LAT. 10°-36'-47" N., LONG. 99°-07'-07" E., ON LEFT BANK ABOUT 10 KILOMETERS DOWNSTREAM FROM X.46A STATION AT BAN HAT TAENG, AMPHOE THA SAE, CHUMPHON.
DRAINAGE AREA	751 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE AUTOMETIC GAGE BUILDING.
ELEVATION	+5.913 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	1976, 1985 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1976, 1985 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 94 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (AD), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.37	0.51	0.75	0.50	1.92	0.84	1.23	1.50	0.62	0.48	0.39	
2	0.36	0.45	0.55	0.72	0.50	2.01	0.77	1.12	1.26	0.62	0.45	0.39	
3	0.36	0.63	0.60	0.72	0.50	1.61	0.96	1.17	1.06	0.61	0.45	0.38	
4	0.36	0.70	0.65	0.82	0.50	1.28	0.86	1.09	1.01	0.60	0.45	0.38	
5	0.42	0.54	0.62	0.84	0.49	1.11	0.79	1.05	0.95	0.58	0.45	0.37	
6	0.41	0.45	0.56	0.97	0.48	1.00	0.80	1.18	0.91	0.57	0.45	0.37	
7	0.39	0.49	0.51	0.82	0.48	0.94	0.74	2.52	0.86	0.57	0.44	0.36	
8	0.38	0.46	0.53	0.75	0.68	0.92	0.69	3.03	0.83	0.57	0.44	0.36	
9	0.37	0.73	0.57	0.69	0.70	0.92	0.88	3.18	0.81	0.56	0.44	0.38	
10	0.36	0.57	0.58	0.65	0.61	0.92	0.77	4.00	0.79	0.56	0.44	0.38	
11	0.35	0.53	0.52	0.64	0.58	1.49	0.77	3.89	0.78	0.55	0.43	0.46	
12	0.34	0.50	0.51	0.62	0.53	1.87	1.41	4.14	0.77	0.54	0.43	0.44	
13	0.34	0.47	0.50	0.60	0.51	1.39	1.34	2.43	0.76	0.54	0.45	0.42	
14	0.33	0.44	0.90	0.58	0.50	1.31	0.99	1.76	0.75	0.53	0.45	0.40	
15	0.54	0.43	1.83	0.57	0.49	1.22	0.89	1.53	0.74	0.52	0.44	0.38	
16	0.48	0.42	1.86	0.57	0.47	1.07	0.85	1.37	0.73	0.52	0.44	0.38	
17	0.44	0.72	1.46	0.61	0.50	0.99	0.89	1.24	0.71	0.51	0.43	0.37	
18	0.40	0.57	1.37	0.71	0.92	1.20	0.81	1.15	0.70	0.51	0.43	0.36	
19	0.39	0.51	1.68	0.71	1.47	1.16	0.75	0.99	0.69	0.50	0.43	0.35	
20	0.38	0.49	1.49	0.64	1.08	1.13	0.73	0.94	0.68	0.50	0.46	0.34	
21	0.37	0.46	1.67	0.60	0.90	0.99	0.73	0.80	0.67	0.50	0.45	0.34	
22	0.35	0.44	1.33	0.57	1.31	0.97	0.82	1.30	0.66	0.49	0.44	0.33	
23	0.34	0.42	1.62	0.56	3.42	0.89	0.82	1.16	0.65	0.49	0.44	0.39	
24	0.34	0.41	1.16	0.55	2.24	1.21	0.83	1.29	0.65	0.49	0.43	0.43	
25	0.34	0.45	0.94	0.54	1.52	0.97	0.97	1.42	0.64	0.49	0.43	0.49	
26	0.53	0.41	0.85	0.53	1.24	0.94	0.91	1.56	0.63	0.49	0.42	0.48	
27	0.47	0.39	0.83	0.53	1.06	0.88	0.80	1.23	0.63	0.49	0.42	0.47	
28	0.40	0.39	0.85	0.52	1.17	0.85	0.77	1.15	0.63	0.49	0.41	0.35	
29	0.38	0.40	0.94	0.52	1.08	0.86	1.67	1.17	0.63	0.49	0.40	0.34	
30	0.37	0.52	0.85	0.51	1.02	0.97	1.41	1.19	0.63	0.48		0.33	
31		0.57		0.51	1.01		1.32		0.62	0.48		0.33	
MEAN	0.39	0.49	0.96	0.64	0.92	1.17	0.92	1.71	0.78	0.53	0.44	0.39	
MAX	0.54	0.73	1.86	0.97	3.42	2.01	1.67	4.14	1.50	0.62	0.48	0.49	4.14
MIN	0.33	0.37	0.50	0.51	0.47	0.85	0.69	0.80	0.62	0.48	0.40	0.33	0.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.23 M (AD), AT 6.00 HOURS, ON NOV 12, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (AD), RIVER BED -0.41 M (AD)
LEFT BANK ELEVATION 10.92 M (AD)
RIGHT BANK ELEVATION 10.74 M (AD), DRAINAGE AREA 751 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.33	1.33	2.90	7.70	2.72	43.72	9.76	20.00	28.30	4.92	2.50	1.51	
2	1.24	2.16	3.61	7.04	2.72	47.44	8.14	16.86	20.90	4.92	2.16	1.51	
3	1.24	5.13	4.50	7.04	2.72	32.10	12.70	18.26	15.26	4.71	2.16	1.42	
4	1.24	6.60	5.55	9.28	2.72	21.50	10.24	16.04	13.96	4.50	2.16	1.42	
5	1.82	3.43	4.92	9.76	2.61	16.58	8.58	15.00	12.45	4.14	2.16	1.33	
6	1.71	2.16	3.79	12.95	2.50	13.70	8.80	18.54	11.45	3.97	2.16	1.33	
7	1.51	2.61	2.90	9.28	2.50	12.20	7.48	62.02	10.24	3.97	2.05	1.24	
8	1.42	2.27	3.25	7.70	6.18	11.70	6.39	69.04	9.52	3.97	2.05	1.24	
9	1.33	7.26	3.97	6.39	6.60	11.70	10.72	71.82	9.04	3.79	2.05	1.42	
10	1.24	3.97	4.14	5.55	4.71	11.70	8.14	94.70	8.58	3.79	2.05	1.42	
11	1.15	3.25	3.08	5.34	4.14	27.98	8.14	90.56	8.36	3.61	1.94	2.27	
12	1.06	2.72	2.90	4.92	3.25	41.73	25.42	124.47	8.14	3.43	1.94	2.05	
13	1.06	2.38	2.72	4.50	2.90	24.80	23.30	61.10	7.92	3.43	2.16	1.82	
14	0.97	2.05	11.20	4.14	2.72	22.40	13.45	37.48	7.70	3.25	2.16	1.60	
15	3.43	1.94	40.17	3.97	2.61	19.70	10.96	29.33	7.48	3.08	2.05	1.42	
16	2.50	1.82	41.34	3.97	2.38	15.52	10.00	24.20	7.26	3.08	2.05	1.42	
17	2.05	7.04	27.02	4.71	2.72	13.45	10.96	20.30	6.82	2.90	1.94	1.33	
18	1.60	3.97	24.20	6.82	11.70	13.10	9.04	17.70	6.60	2.90	1.94	1.24	
19	1.51	2.90	34.51	6.82	27.34	17.98	7.70	13.45	6.39	2.72	1.94	1.15	
20	1.42	2.61	27.98	5.34	15.78	17.14	7.26	12.20	6.18	2.72	2.27	1.06	
21	1.33	2.27	34.16	4.50	11.20	13.45	7.26	8.80	5.97	2.72	2.16	1.06	
22	1.15	2.05	23.00	3.97	22.40	12.95	9.28	22.10	5.76	2.61	2.05	0.97	
23	1.06	1.82	32.44	3.79	120.70	10.96	9.28	17.98	5.55	2.61	2.05	1.51	
24	1.06	1.71	17.98	3.61	57.74	19.40	9.52	21.80	5.55	2.61	1.94	1.94	
25	1.06	2.16	12.20	3.43	28.99	12.95	12.95	25.74	5.34	2.61	1.94	2.61	
26	3.25	1.71	10.00	3.25	20.30	12.20	11.45	30.37	5.13	2.61	1.82	2.50	
27	2.38	1.51	9.52	3.25	15.26	10.72	8.80	20.00	5.13	2.61	1.82	2.38	
28	1.60	1.51	10.00	3.08	18.26	10.00	8.14	17.70	5.13	2.61	1.71	1.15	
29	1.42	1.60	12.20	3.08	15.78	10.24	34.16	18.26	5.13	2.61	1.60	1.06	
30	1.33	3.08	10.00	2.90	14.22	12.95	25.42	18.82	5.13	2.50		0.97	
31		3.97		2.90	13.96		22.70		4.92	2.50		0.97	
TOTAL	46.47	90.99	426.15	170.98	450.33	567.96	376.14	1034.64	271.29	102.40	58.98	46.32	3642.65 CMSDAY
MEAN	1.55	2.94	14.21	5.52	14.53	18.93	12.13	34.49	8.75	3.30	2.03	1.49	9.95 CMS
MAX	3.43	7.26	41.34	12.95	120.70	47.44	34.16	124.47	28.30	4.92	2.50	2.61	124.47 CMS
MIN	0.97	1.33	2.72	2.90	2.38	10.00	6.39	8.80	4.92	2.50	1.60	0.97	0.97 CMS
RUNOFF	4.015	7.862	36.819	14.773	38.909	49.072	32.499	89.393	23.439	8.847	5.096	4.002	314.725 MCM

MOMENTARY PEAK 175.71 CMS, AT 4.23 M (AD), AT 6.00 HOURS, ON NOV 12, 1987

RUNOFF YIELD 13.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 233.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

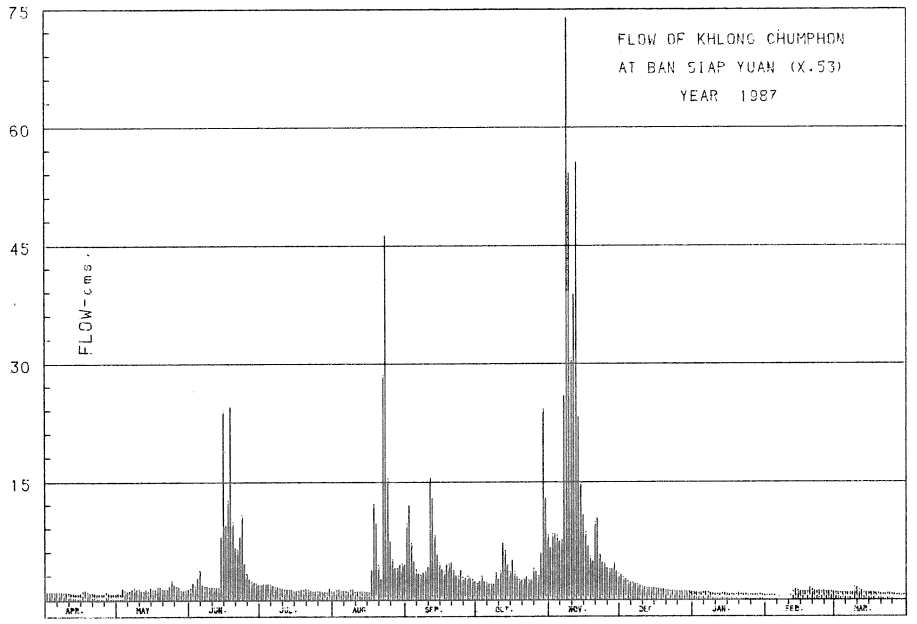
KHLONG CHUMPHON AT BAN SIAP YUAN, CHUMPHON (X.53)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+9.502 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973, 1979 - 1980
RATED BY FLOAT	-
RATED BY CURRENT METER	1973, 1979 - 1980
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 205 DISCHARGE MEASUREMENTS MADE DURING 1973 AND 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.57	0.55	0.63	0.67	0.58	1.14	0.69	0.99	0.77	0.57	0.52	0.57	
2	0.57	0.54	0.69	0.68	0.61	1.24	0.71	1.08	0.75	0.56	0.52	0.56	
3	0.57	0.62	0.66	0.68	0.61	1.02	0.76	1.08	0.73	0.56	0.52	0.56	
4	0.57	0.60	0.74	0.68	0.59	0.89	0.71	1.07	0.71	0.56	0.52	0.56	
5	0.57	0.58	0.81	0.68	0.59	0.82	0.70	1.03	0.70	0.57	0.51	0.56	
6	0.57	0.59	0.67	0.66	0.59	0.78	0.68	1.04	0.70	0.57	0.50	0.56	
7	0.57	0.61	0.65	0.65	0.58	0.77	0.68	1.72	0.68	0.57	0.50	0.56	
8	0.57	0.64	0.65	0.64	0.61	0.79	0.68	2.91	0.68	0.55	0.50	0.56	
9	0.56	0.61	0.64	0.63	0.61	0.80	0.79	2.46	0.66	0.55	0.50	0.64	
10	0.56	0.62	0.64	0.62	0.58	0.84	0.73	1.86	0.65	0.54	0.50	0.63	
11	0.55	0.59	0.64	0.61	0.58	1.38	0.81	2.08	0.64	0.54	0.52	0.61	
12	0.55	0.59	0.63	0.61	0.58	1.28	1.02	2.50	0.63	0.54	0.58	0.59	
13	0.54	0.61	0.64	0.61	0.58	1.07	0.97	1.64	0.63	0.55	0.61	0.57	
14	0.54	0.59	1.06	0.61	0.58	0.94	0.86	1.36	0.63	0.55	0.60	0.56	
15	0.55	0.63	1.67	0.59	0.57	0.88	0.80	1.19	0.63	0.54	0.58	0.56	
16	0.59	0.61	1.13	0.59	0.57	0.82	0.90	1.09	0.62	0.53	0.58	0.56	
17	0.60	0.61	1.27	0.60	0.81	0.80	0.80	1.00	0.62	0.54	0.58	0.56	
18	0.58	0.64	1.68	0.61	1.25	0.86	0.75	0.93	0.61	0.53	0.58	0.55	
19	0.56	0.64	1.15	0.61	1.14	0.87	0.73	0.89	0.61	0.54	0.63	0.55	
20	0.56	0.62	0.99	0.62	0.86	0.88	0.72	1.15	0.60	0.55	0.61	0.54	
21	0.55	0.61	0.98	0.61	0.73	0.81	0.73	1.17	0.60	0.54	0.59	0.54	
22	0.54	0.61	1.06	0.59	1.80	0.76	0.75	0.94	0.59	0.54	0.58	0.54	
23	0.54	0.65	1.19	0.58	2.27	0.76	0.72	0.88	0.59	0.54	0.59	0.55	
24	0.54	0.72	0.87	0.58	1.38	0.81	0.72	0.90	0.59	0.53	0.58	0.55	
25	0.54	0.67	0.78	0.59	1.03	0.75	0.83	0.83	0.58	0.53	0.59	0.54	
26	0.57	0.65	0.73	0.58	0.91	0.74	0.80	0.82	0.58	0.53	0.58	0.54	
27	0.55	0.64	0.71	0.57	0.83	0.76	0.76	0.82	0.58	0.53	0.58	0.53	
28	0.54	0.60	0.70	0.57	0.83	0.74	0.95	0.88	0.58	0.53	0.58	0.53	
29	0.54	0.59	0.69	0.57	0.86	0.73	1.67	0.80	0.58	0.54	0.57	0.52	
30	0.54	0.60	0.67	0.62	0.87	0.71	1.28	0.78	0.58	0.53		0.53	
31		0.61		0.59	0.86		1.07		0.57	0.52		0.53	
MEAN	0.56	0.61	0.87	0.62	0.83	0.88	0.83	1.26	0.63	0.54	0.56	0.56	
MAX	0.60	0.72	1.68	0.68	2.27	1.38	1.67	2.91	0.77	0.57	0.63	0.64	2.91
MIN	0.54	0.54	0.63	0.57	0.57	0.71	0.68	0.78	0.57	0.52	0.50	0.52	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.58 M (A.D), AT 17.00 HOURS, ON NOV 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.52 M (A.D)
LEFT BANK ELEVATION 9.54 M (A.D)
RIGHT BANK ELEVATION 7.22 M (A.D), DRAINAGE AREA 223 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND. WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.97	0.81	1.50	1.90	1.04	9.68	2.10	6.62	3.18	0.97	0.58	0.97	
2	0.97	0.73	2.10	2.00	1.30	11.96	2.34	8.40	2.90	0.89	0.58	0.89	
3	0.97	1.40	1.80	2.00	1.30	7.20	3.04	8.40	2.62	0.89	0.58	0.89	
4	0.97	1.20	2.76	2.00	1.12	4.86	2.34	8.20	2.34	0.89	0.58	0.89	
5	0.97	1.04	3.74	2.00	1.12	3.88	2.20	7.40	2.20	0.97	0.50	0.89	
6	0.97	1.12	1.90	1.80	1.12	3.32	2.00	7.60	2.20	0.97	0.42	0.89	
7	0.97	1.30	1.70	1.70	1.04	3.18	2.00	25.88	2.00	0.97	0.42	0.89	
8	0.97	1.60	1.70	1.60	1.30	3.46	2.00	74.28	2.00	0.81	0.42	0.89	
9	0.89	1.30	1.60	1.50	1.30	3.60	3.46	54.22	1.80	0.81	0.42	1.60	
10	0.89	1.40	1.60	1.40	1.04	4.16	2.62	30.70	1.70	0.73	0.42	1.50	
11	0.81	1.12	1.60	1.30	1.04	15.48	3.74	38.82	1.60	0.73	0.58	1.30	
12	0.81	1.12	1.50	1.30	1.04	12.92	7.20	55.90	1.50	0.73	1.04	1.12	
13	0.73	1.30	1.60	1.30	1.04	8.20	6.26	23.22	1.50	0.81	1.30	0.97	
14	0.73	1.12	8.00	1.30	1.04	5.72	4.44	14.96	1.50	0.81	1.20	0.89	
15	0.81	1.50	24.21	1.12	0.97	4.72	3.60	10.78	1.50	0.73	1.04	0.89	
16	1.12	1.30	9.46	1.12	0.97	3.88	5.00	8.60	1.40	0.65	1.04	0.89	
17	1.20	1.30	12.68	1.20	3.74	3.60	3.60	6.80	1.40	0.73	1.04	0.89	
18	1.04	1.60	24.54	1.30	12.20	4.44	2.90	5.54	1.30	0.65	1.04	0.81	
19	0.89	1.60	9.90	1.30	9.68	4.58	2.62	4.86	1.30	0.73	1.50	0.81	
20	0.89	1.40	6.62	1.40	4.44	4.72	2.48	9.90	1.20	0.81	1.30	0.73	
21	0.81	1.30	6.44	1.30	2.62	3.74	2.62	10.34	1.20	0.73	1.12	0.73	
22	0.73	1.30	8.00	1.12	28.60	3.04	2.90	5.72	1.12	0.73	1.04	0.73	
23	0.73	1.70	10.78	1.04	46.30	3.04	2.48	4.72	1.12	0.73	1.12	0.81	
24	0.73	2.48	4.58	1.04	15.48	3.74	2.48	5.00	1.12	0.65	1.04	0.81	
25	0.73	1.90	3.32	1.12	7.40	2.90	4.02	4.02	1.04	0.65	1.12	0.73	
26	0.97	1.70	2.62	1.04	5.18	2.76	3.60	3.88	1.04	0.65	1.04	0.73	
27	0.81	1.60	2.34	0.97	4.02	3.04	3.04	3.88	1.04	0.65	1.04	0.65	
28	0.73	1.20	2.20	0.97	4.02	2.76	5.90	4.72	1.04	0.65	1.04	0.65	
29	0.73	1.12	2.10	0.97	4.44	2.62	24.21	3.60	1.04	0.73	0.97	0.58	
30	0.73	1.20	1.90	1.40	4.58	2.34	12.92	3.32	1.04	0.65		0.65	
31		1.30		1.12	4.44		8.20		0.97	0.58		0.65	
TOTAL	26.27	42.06	164.79	42.63	174.92	153.54	138.31	460.28	48.91	23.68	25.53	27.32	1328.24 CMSDAY
MEAN	0.88	1.36	5.49	1.38	5.64	5.12	4.46	15.34	1.58	0.76	0.88	0.88	3.63 CMS
MAX	1.20	2.48	24.54	2.00	46.30	15.48	24.21	74.28	3.18	0.97	1.50	1.60	74.28 CMS
MIN	0.73	0.73	1.50	0.97	0.97	2.34	2.00	3.32	0.97	0.58	0.42	0.58	0.42 CMS
RUNOFF	2.270	3.634	14.238	3.683	15.113	13.266	11.950	39.768	4.226	2.046	2.206	2.360	114.760 MCM

MOMENTARY PEAK 107.84 CMS, AT 3.58 M (A.D), AT 17.00 HOURS, ON NOV 8, 1987

RUNOFF YIELD 16.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 483.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

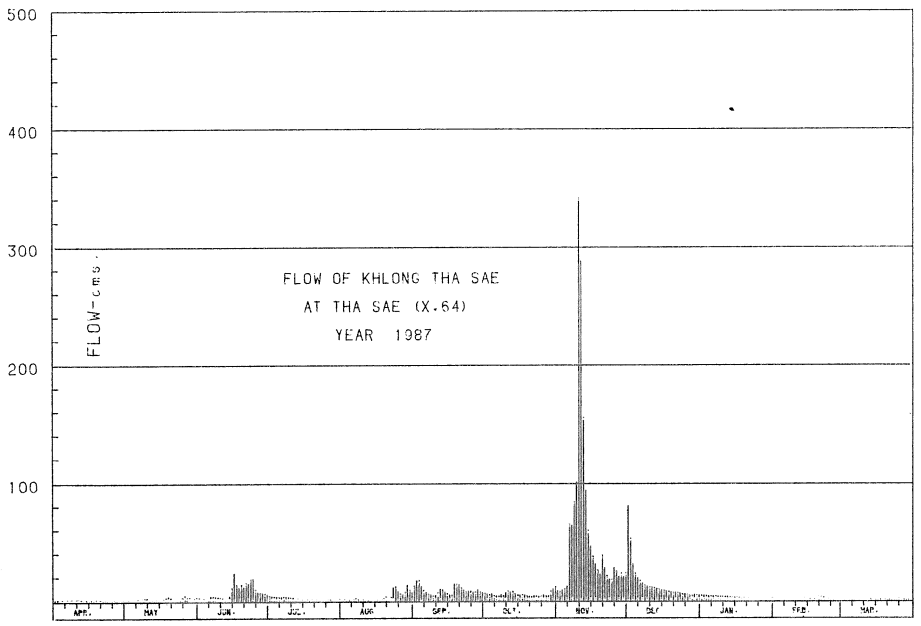
KHLONG THA SAE AT THA SAE, CHUMPHON (X.64)

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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+11.196 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974-1975, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974-1975, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 112 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.32	0.48	0.60	0.40	1.01	0.70	0.79	3.15	0.60	0.43	0.37	
2	0.34	0.31	0.47	0.56	0.38	1.19	0.66	0.77	2.38	0.60	0.46	0.36	
3	0.34	0.30	0.44	0.55	0.35	1.20	0.64	0.83	1.69	0.58	0.45	0.36	
4	0.34	0.37	0.43	0.54	0.34	0.99	0.68	0.88	1.42	0.56	0.44	0.35	
5	0.33	0.36	0.54	0.52	0.36	0.82	0.61	0.99	1.28	0.56	0.44	0.34	
6	0.36	0.36	0.55	0.52	0.38	0.73	0.57	2.72	1.19	0.56	0.43	0.34	
7	0.36	0.37	0.56	0.55	0.45	0.66	0.57	2.69	1.10	0.56	0.43	0.33	
8	0.37	0.42	0.53	0.53	0.38	0.63	0.64	3.23	1.03	0.55	0.43	0.32	
9	0.36	0.46	0.51	0.51	0.38	0.59	0.60	4.31	0.99	0.54	0.43	0.33	
10	0.36	0.46	0.50	0.50	0.38	0.60	0.71	7.98	0.95	0.53	0.43	0.34	
11	0.39	0.42	0.46	0.48	0.36	0.73	0.80	7.53	0.95	0.53	0.43	0.36	
12	0.33	0.37	0.43	0.45	0.35	0.86	0.74	5.79	0.93	0.53	0.43	0.37	
13	0.34	0.37	0.42	0.43	0.34	0.84	0.77	3.86	0.89	0.52	0.44	0.35	
14	0.33	0.34	0.56	0.42	0.33	0.73	0.68	2.58	0.86	0.50	0.43	0.34	
15	0.33	0.32	0.95	0.40	0.33	0.69	0.63	2.19	0.83	0.48	0.42	0.34	
16	0.34	0.33	1.44	0.40	0.34	0.63	0.62	1.90	0.81	0.48	0.39	0.33	
17	0.34	0.41	1.05	0.40	0.35	0.63	0.64	1.69	0.79	0.47	0.37	0.33	
18	0.36	0.47	0.94	0.41	0.38	1.07	0.61	1.51	0.77	0.46	0.36	0.32	
19	0.36	0.54	1.05	0.40	0.44	1.07	0.57	1.40	0.74	0.45	0.39	0.32	
20	0.33	0.48	0.95	0.40	0.53	1.06	0.55	1.93	0.72	0.45	0.51	0.31	
21	0.32	0.43	1.12	0.39	0.47	0.94	0.53	1.58	0.72	0.45	0.51	0.31	
22	0.32	0.46	1.08	0.37	0.52	0.83	0.58	1.35	0.72	0.44	0.48	0.29	
23	0.32	0.41	1.24	0.36	0.94	0.76	0.57	1.23	0.70	0.44	0.44	0.30	
24	0.32	0.51	1.25	0.35	0.98	0.78	0.55	1.22	0.66	0.43	0.42	0.31	
25	0.31	0.50	0.86	0.35	0.78	0.79	0.56	1.58	0.66	0.43	0.40	0.41	
26	0.31	0.60	0.74	0.37	0.69	0.74	0.61	1.49	0.64	0.44	0.40	0.38	
27	0.31	0.49	0.72	0.35	0.63	0.76	0.57	1.32	0.60	0.44	0.40	0.35	
28	0.31	0.51	0.70	0.34	0.75	0.84	0.58	1.43	0.59	0.43	0.39	0.34	
29	0.32	0.46	0.69	0.36	1.03	0.76	0.80	1.31	0.63	0.45	0.38	0.31	
30	0.33	0.44	0.65	0.37	0.83	0.73	0.86	1.44	0.62	0.45		0.31	
31		0.49		0.40	0.73		0.96		0.61	0.44		0.31	
MEAN	0.34	0.42	0.74	0.44	0.51	0.82	0.65	2.32	0.99	0.50	0.43	0.34	
MAX	0.39	0.60	1.44	0.60	1.03	1.20	0.96	7.98	3.15	0.60	0.51	0.41	7.98
MIN	0.31	0.30	0.42	0.34	0.33	0.59	0.53	0.77	0.59	0.43	0.36	0.29	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.56 M (A.D), AT 16.00 HOURS, ON NOV 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.19 M (A.D)
LEFT BANK ELEVATION 10.96 M (A.D)
RIGHT BANK ELEVATION 10.23 M (A.D), DRAINAGE AREA 957 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.60	1.36	3.20	5.00	2.00	13.25	7.00	8.80	81.00	5.00	2.45	1.76	
2	1.52	1.28	3.05	4.40	1.84	17.75	6.20	8.40	53.30	5.00	2.90	1.68	
3	1.52	1.20	2.60	4.25	1.60	18.00	5.80	9.60	31.70	4.70	2.75	1.68	
4	1.52	1.76	2.45	4.10	1.52	12.80	6.60	10.60	23.60	4.40	2.60	1.60	
5	1.44	1.68	4.10	3.80	1.68	9.40	5.20	12.80	20.00	4.40	2.60	1.52	
6	1.68	1.68	4.25	3.80	1.84	7.60	4.55	65.20	17.75	4.40	2.45	1.52	
7	1.68	1.76	4.40	4.25	2.75	6.20	4.55	64.15	15.50	4.40	2.45	1.44	
8	1.76	2.30	3.95	3.95	1.84	5.60	5.80	84.20	13.75	4.25	2.45	1.36	
9	1.68	2.90	3.65	3.65	1.84	4.85	5.00	101.20	12.80	4.10	2.45	1.44	
10	1.68	2.90	3.50	3.50	1.84	5.00	7.20	341.40	12.00	3.95	2.45	1.52	
11	1.92	2.30	2.90	3.20	1.68	7.60	9.00	288.13	12.00	3.95	2.45	1.68	
12	1.44	1.76	2.45	2.75	1.60	10.20	7.80	155.69	11.60	3.95	2.45	1.76	
13	1.52	1.76	2.30	2.45	1.52	9.80	8.40	93.90	10.80	3.80	2.60	1.60	
14	1.44	1.52	4.40	2.30	1.44	7.60	6.60	60.30	10.20	3.50	2.45	1.52	
15	1.44	1.36	12.00	2.00	1.44	6.80	5.60	46.70	9.60	3.20	2.30	1.52	
16	1.52	1.44	24.20	2.00	1.52	5.60	5.40	38.00	9.20	3.20	1.92	1.44	
17	1.52	2.15	14.25	2.00	1.60	5.60	5.80	31.70	8.80	3.05	1.76	1.44	
18	1.68	3.05	11.80	2.15	1.84	14.75	5.20	26.30	8.40	2.90	1.68	1.36	
19	1.68	4.10	14.25	2.00	2.60	14.75	4.55	23.00	7.80	2.75	1.92	1.36	
20	1.44	3.20	12.00	2.00	3.95	14.50	4.25	38.90	7.40	2.75	3.65	1.28	
21	1.36	2.45	16.00	1.92	3.05	11.80	3.95	28.40	7.40	2.75	3.65	1.28	
22	1.36	2.90	15.00	1.76	3.80	9.60	4.70	21.75	7.40	2.60	3.20	1.12	
23	1.36	2.15	19.00	1.68	11.80	8.20	4.55	18.75	7.00	2.60	2.60	1.20	
24	1.36	3.65	19.25	1.60	12.60	8.60	4.25	18.50	6.20	2.45	2.30	1.28	
25	1.28	3.50	10.20	1.60	8.60	8.80	4.40	28.40	6.20	2.45	2.00	2.15	
26	1.28	5.00	7.80	1.76	6.80	7.80	5.20	25.70	5.80	2.60	2.00	1.84	
27	1.28	3.35	7.40	1.60	5.60	8.20	4.55	21.00	5.00	2.60	2.00	1.60	
28	1.28	3.65	7.00	1.52	8.00	9.80	4.70	23.90	4.85	2.45	1.92	1.52	
29	1.36	2.90	6.80	1.68	13.75	8.20	9.00	20.75	5.60	2.75	1.84	1.28	
30	1.44	2.60	6.00	1.76	9.60	7.60	10.20	24.20	5.40	2.75		1.28	
31		3.35		2.00	7.60		12.20		5.20	2.60		1.28	
TOTAL	45.04	76.96	250.15	82.43	129.14	286.25	188.20	1740.32	443.25	106.25	70.24	46.31	3464.54 CMSDAY
MEAN	1.50	2.48	8.34	2.66	4.17	9.54	6.07	58.01	14.30	3.43	2.42	1.49	9.47 CMS
MAX	1.92	5.00	24.20	5.00	13.75	18.00	12.20	341.40	81.00	5.00	3.65	2.15	341.40 CMS
MIN	1.28	1.20	2.30	1.52	1.44	4.85	3.95	8.40	4.85	2.45	1.68	1.12	1.12 CMS
RUNOFF	3.891	6.649	21.613	7.122	11.158	24.732	16.260	150.364	38.297	9.180	6.069	4.001	299.336 MCM

MOMENTARY PEAK 549.00 CMS, AT 8.56 M (A.D), AT 16.00 HOURS, ON NOV 10, 1987

RUNOFF YIELD 9.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 573.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — STAFF GAGE.

ZERO GAGE AT BOTTOM — +4.80 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +10.240 M.(M.S.L.)

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

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

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.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +10.22 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 70 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

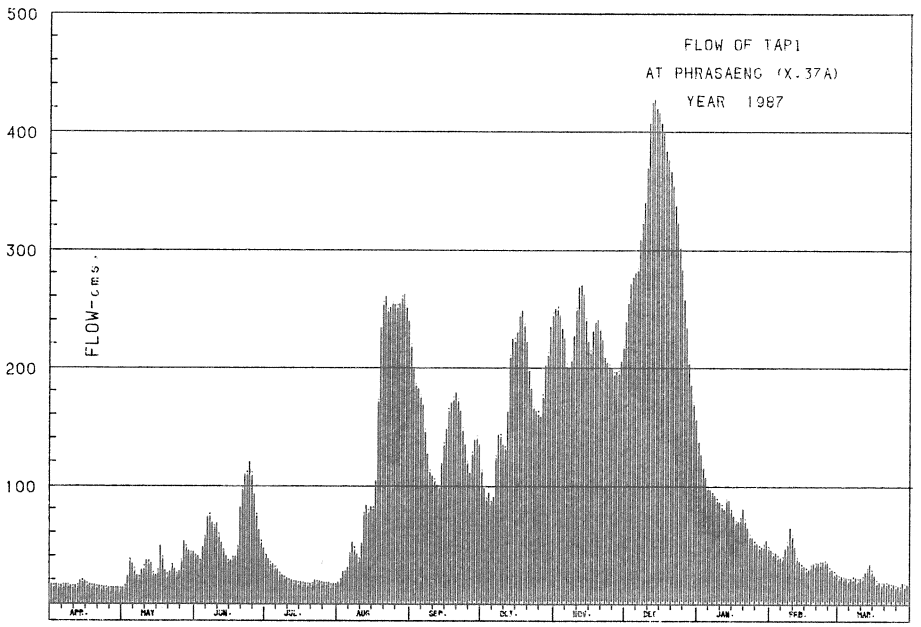
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.55	5.45	6.19	6.19	5.61	8.98	7.49	9.35	9.21	7.88	6.27	5.80	
2	5.54	5.52	6.17	6.12	5.70	8.71	7.22	9.37	9.43	7.68	6.23	5.78	
3	5.55	5.78	6.10	6.07	5.88	8.55	7.09	9.28	9.59	7.55	6.22	5.76	
4	5.53	6.12	6.32	6.03	5.89	8.49	7.16	9.17	9.68	7.38	6.18	5.74	
5	5.52	6.04	6.51	5.99	5.97	8.42	7.04	9.04	9.69	7.25	6.14	5.72	
6	5.55	5.96	6.81	5.93	6.22	8.29	7.10	8.77	9.74	7.20	6.16	5.72	
7	5.55	5.80	6.86	5.86	6.40	8.00	7.67	8.72	9.97	7.16	6.29	5.78	
8	5.55	5.78	6.72	5.81	6.32	7.69	7.93	8.83	10.12	7.12	6.42	5.75	
9	5.52	5.92	6.68	5.77	6.20	7.49	7.94	9.06	10.25	7.08	6.64	5.72	
10	5.51	6.01	6.71	5.73	6.13	7.40	7.81	9.36	10.50	7.03	6.53	5.73	
11	5.51	6.10	6.55	5.70	6.38	7.36	7.79	9.56	10.74	6.99	6.32	5.78	
12	5.54	6.09	6.39	5.67	6.88	7.27	8.21	9.61	10.87	6.92	6.15	5.86	
13	5.65	6.05	6.28	5.64	6.98	7.26	8.86	9.49	10.87	7.08	6.08	5.97	
14	5.68	5.87	6.17	5.64	6.92	7.57	9.03	9.25	10.84	7.05	6.03	6.03	
15	5.64	5.81	6.10	5.62	6.96	7.84	9.04	9.00	10.80	6.92	5.99	5.92	
16	5.59	5.93	6.09	5.62	6.96	8.00	9.10	8.91	10.76	6.82	5.96	5.80	
17	5.55	6.34	6.16	5.60	7.33	8.25	9.30	9.11	10.69	6.75	5.92	5.67	
18	5.53	6.16	6.16	5.59	8.36	8.32	9.33	9.24	10.60	6.74	6.02	5.61	
19	5.53	5.91	6.34	5.58	9.15	8.39	9.20	9.23	10.53	6.80	6.04	5.60	
20	5.51	5.84	6.95	5.57	9.42	8.44	9.00	9.16	10.48	6.93	6.06	5.60	
21	5.50	5.88	7.24	5.59	9.47	8.37	8.73	9.02	10.37	6.78	6.06	5.61	
22	5.49	6.03	7.42	5.67	9.35	8.22	8.49	8.87	10.25	6.64	6.07	5.58	
23	5.48	5.94	7.46	5.65	9.36	8.02	8.29	8.78	10.10	6.54	6.08	5.56	
24	5.48	5.85	7.59	5.64	9.42	7.81	8.22	8.76	9.93	6.48	6.09	5.55	
25	5.46	5.89	7.45	5.62	9.39	7.60	8.22	8.71	9.72	6.42	6.06	5.53	
26	5.46	6.11	7.14	5.60	9.39	7.44	8.15	8.68	9.47	6.38	5.97	5.50	
27	5.46	6.42	6.86	5.60	9.40	7.72	8.42	8.68	9.15	6.34	5.92	5.49	
28	5.46	6.35	6.61	5.60	9.48	7.87	8.75	8.69	8.80	6.32	5.89	5.59	
29	5.47	6.26	6.43	5.56	9.49	7.92	8.89	8.79	8.53	6.37	5.84	5.57	
30	5.45	6.24	6.30	5.57	9.39	7.81	9.16	8.96	8.33	6.43		5.54	
31		6.24		5.56	9.22		9.31		8.11	6.33		5.52	
MEAN	5.53	5.99	6.63	5.72	7.71	7.98	8.32	9.05	9.94	6.88	6.13	5.69	
MAX	5.68	6.42	7.59	6.19	9.49	8.98	9.33	9.61	10.87	7.88	6.64	6.03	10.87
MIN	5.45	5.45	6.09	5.56	5.61	7.26	7.04	8.68	8.11	6.32	5.84	5.49	5.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.88 M (MSL), AT 18.00 HOURS, ON DEC 12, 1987

ZERO GAGE AT BOTTOM ELEVATION 4.80 M (MSL), RIVER BED 3.86 M (MSL)

LEFT BANK ELEVATION 10.31 M (MSL)

RIGHT BANK ELEVATION 10.67 M (MSL), DRAINAGE AREA 5200 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	16.50	13.50	41.50	41.50	18.30	220.40	113.90	250.25	238.80	139.60	45.50	24.00	
2	16.20	15.60	40.50	38.00	21.00	198.80	97.70	251.95	257.05	126.20	43.50	23.40	
3	16.50	23.40	37.00	35.50	27.20	186.75	89.90	244.40	271.10	117.75	43.00	22.80	
4	15.90	38.00	48.00	33.50	27.60	182.30	94.10	235.60	279.20	107.30	41.00	22.20	
5	15.60	34.00	57.50	31.60	30.80	177.40	86.90	225.20	280.10	99.50	39.00	21.60	
6	16.50	30.40	73.55	29.20	43.00	168.30	90.50	203.60	285.00	96.50	40.00	21.60	
7	16.50	24.00	76.30	26.40	52.00	148.00	125.55	199.60	308.00	94.10	46.50	23.40	
8	16.50	23.40	68.60	24.40	48.00	126.85	143.10	208.40	324.88	91.70	53.00	22.50	
9	15.60	28.80	66.40	23.10	42.00	113.90	143.80	226.80	339.92	89.30	64.20	21.60	
10	15.30	32.50	68.05	21.90	38.50	108.50	134.70	251.10	372.00	86.30	58.50	21.90	
11	15.30	37.00	59.50	21.00	51.00	106.10	133.35	268.40	407.00	83.90	48.00	23.40	
12	16.20	36.50	51.50	20.10	77.40	100.70	162.70	272.90	427.20	79.70	39.50	26.40	
13	19.50	34.50	46.00	19.20	83.30	100.10	210.80	262.15	427.20	89.30	36.00	30.80	
14	20.40	26.80	40.50	19.20	79.70	119.05	224.40	242.00	422.40	87.50	33.50	33.50	
15	19.20	24.40	37.00	18.60	82.10	136.80	225.20	222.00	416.00	79.70	31.60	28.80	
16	17.70	29.20	36.50	18.60	82.10	148.00	230.00	214.80	410.00	74.10	30.40	24.00	
17	16.50	49.00	40.00	18.00	104.30	165.50	246.00	230.80	399.55	70.25	28.80	20.10	
18	15.90	40.00	40.00	17.70	173.20	170.40	248.55	241.20	386.50	69.70	33.00	18.30	
19	15.90	28.40	49.00	17.40	234.00	175.30	238.00	240.40	376.35	73.00	34.00	18.00	
20	15.30	25.60	81.50	17.10	256.20	178.80	222.00	234.80	369.10	80.30	35.00	18.00	
21	15.00	27.20	98.90	17.70	260.45	173.90	200.40	223.60	353.96	71.90	35.00	18.30	
22	14.70	33.50	109.70	20.10	250.25	163.40	182.30	211.60	339.92	64.20	35.50	17.40	
23	14.40	29.60	112.10	19.50	251.10	149.40	168.30	204.40	322.57	59.00	36.00	16.80	
24	14.40	26.00	120.35	19.20	256.20	134.70	163.40	202.80	304.00	56.00	36.50	16.50	
25	13.80	27.60	111.50	18.60	253.65	121.00	163.40	198.80	283.00	53.00	35.00	15.90	
26	13.80	37.50	92.90	18.00	253.65	110.90	158.50	196.50	260.45	51.00	30.80	15.00	
27	13.80	53.00	76.30	18.00	254.50	128.80	177.40	196.50	234.00	49.00	28.80	14.70	
28	13.80	49.50	62.55	18.00	261.30	138.90	202.00	197.25	206.00	48.00	27.60	17.70	
29	14.10	45.00	53.50	16.80	262.15	142.40	213.20	205.20	185.25	50.50	25.60	17.10	
30	13.50	44.00	47.00	17.10	253.65	134.70	234.80	218.80	171.10	53.50		16.20	
31		44.00		16.80	239.60		246.85		155.70	48.50		15.60	
TOTAL	474.30	1011.90	1943.70	691.80	4368.20	4430.05	5371.70	6781.80	9813.30	2440.30	1114.80	647.50	39089.35 CMSDAY
MEAN	15.81	32.64	64.79	22.32	140.91	147.67	173.28	226.06	316.56	78.72	38.44	20.89	106.80 CMS
MAX	20.40	53.00	120.35	41.50	262.15	220.40	248.55	272.90	427.20	139.60	64.20	33.50	427.20 CMS
MIN	13.50	13.50	36.50	16.80	18.30	100.10	86.90	196.50	155.70	48.00	25.60	14.70	13.50 CMS
RUNOFF	40.980	87.428	167.936	59.772	377.413	382.756	464.115	585.947	847.869	210.842	96.319	55.944	3377.320 MCM

MOMENTARY PEAK 428.80 CMS, AT 10.88 M (MSL), AT 18.00 HOURS, ON DEC 12, 1987

RUNOFF YIELD 20.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

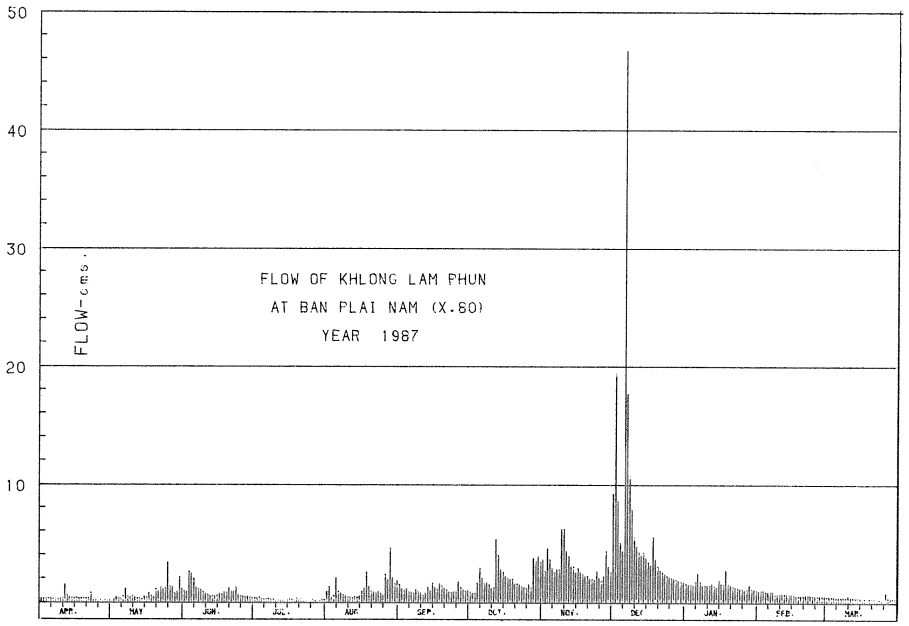
KHLONG LAM PHUN AT BAN PLAI NAM, SURAT THANI (X.80)

LOCATION	LAT. 8°-52-23 N., LONG. 99-25-59 E., ON LEFT BANK AT BAN PLAI NAM, TAMBON LAM PHUN, AMPHOE BAN NA SAN, SURAT THANI.
DRAINAGE AREA	114 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M. -H.D.
LOCATION	ON LEFT BANK INFRONT OF THE KHAO NOI SCHOOL AND ABOUT 2 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+2.743 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	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +3.22 M.(A.D.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.29	0.46	0.35	0.45	0.54	0.45	0.77	1.12	0.55	0.46	0.37	
2	0.33	0.38	0.45	0.34	0.52	0.49	0.43	0.68	1.52	0.54	0.47	0.37	
3	0.33	0.36	0.68	0.36	0.35	0.47	0.43	0.85	1.09	0.54	0.47	0.37	
4	0.33	0.34	0.66	0.33	0.39	0.49	0.56	0.77	0.89	0.53	0.45	0.36	
5	0.33	0.33	0.60	0.32	0.61	0.45	0.71	0.71	0.83	0.57	0.44	0.35	
6	0.32	0.38	0.51	0.33	0.46	0.44	0.61	0.67	2.18	0.66	0.45	0.35	
7	0.32	0.49	0.49	0.33	0.43	0.43	0.55	0.70	1.46	0.57	0.45	0.35	
8	0.31	0.37	0.48	0.32	0.41	0.48	0.56	0.70	1.19	0.53	0.41	0.35	
9	0.32	0.36	0.45	0.32	0.38	0.45	0.54	0.96	1.05	0.53	0.41	0.35	
10	0.34	0.39	0.42	0.31	0.37	0.43	0.50	0.96	0.92	0.53	0.42	0.38	
11	0.54	0.35	0.41	0.31	0.36	0.40	0.51	0.83	0.86	0.53	0.42	0.35	
12	0.40	0.34	0.39	0.31	0.35	0.43	0.91	0.79	0.82	0.55	0.42	0.35	
13	0.36	0.33	0.39	0.30	0.37	0.51	0.80	0.72	0.80	0.52	0.41	0.34	
14	0.35	0.32	0.38	0.30	0.36	0.46	0.70	0.72	0.82	0.51	0.41	0.34	
15	0.34	0.37	0.40	0.30	0.38	0.56	0.67	0.67	0.78	0.59	0.41	0.34	
16	0.35	0.36	0.42	0.32	0.46	0.51	0.63	0.71	0.75	0.55	0.40	0.33	
17	0.34	0.43	0.42	0.31	0.50	0.49	0.61	0.67	0.73	0.54	0.39	0.33	
18	0.34	0.39	0.44	0.30	0.67	0.55	0.60	0.65	0.92	0.69	0.39	0.33	
19	0.34	0.36	0.44	0.35	0.52	0.53	0.60	0.63	0.77	0.55	0.39	0.33	
20	0.34	0.49	0.50	0.32	0.46	0.50	0.55	0.63	0.72	0.53	0.39	0.33	
21	0.34	0.45	0.45	0.33	0.44	0.48	0.55	0.60	0.69	0.52	0.40	0.33	
22	0.44	0.51	0.45	0.31	0.43	0.45	0.54	0.60	0.67	0.51	0.40	0.33	
23	0.31	0.48	0.51	0.30	0.45	0.44	0.52	0.59	0.65	0.50	0.40	0.31	
24	0.30	0.50	0.41	0.29	0.43	0.45	0.51	0.68	0.63	0.49	0.39	0.31	
25	0.31	0.75	0.39	0.28	0.40	0.45	0.50	0.61	0.62	0.49	0.38	0.31	
26	0.30	0.52	0.38	0.31	0.65	0.57	0.54	0.58	0.61	0.47	0.38	0.43	
27	0.30	0.51	0.37	0.29	0.59	0.51	0.51	0.63	0.60	0.48	0.38	0.35	
28	0.30	0.43	0.37	0.29	0.85	0.48	0.78	0.83	0.59	0.53	0.38	0.33	
29	0.30	0.45	0.36	0.28	0.61	0.46	0.76	0.72	0.58	0.49	0.38	0.33	
30	0.30	0.62	0.35	0.32	0.55	0.47	0.79	0.67	0.57	0.48		0.33	
31		0.49		0.31	0.58		0.75		0.57	0.47		0.33	
MEAN	0.34	0.42	0.45	0.31	0.48	0.48	0.60	0.71	0.87	0.53	0.41	0.34	
MAX	0.54	0.75	0.68	0.36	0.85	0.57	0.91	0.96	2.18	0.69	0.47	0.43	2.18
MIN	0.30	0.29	0.35	0.28	0.35	0.40	0.43	0.58	0.57	0.47	0.38	0.31	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.50 M (A.D), AT 11.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.26 M (A.D)
LEFT BANK ELEVATION 3.21 M (A.D)
RIGHT BANK ELEVATION 3.33 M (A.D), DRAINAGE AREA 114 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.16	0.96	0.40	0.90	1.52	0.90	3.64	9.24	1.60	0.96	0.48	
2	0.32	0.52	0.90	0.36	1.36	1.14	0.78	2.64	19.44	1.52	1.02	0.48	
3	0.32	0.44	2.64	0.44	0.40	1.02	0.78	4.60	8.61	1.52	1.02	0.48	
4	0.32	0.36	2.48	0.32	0.56	1.14	1.68	3.64	5.08	1.44	0.90	0.44	
5	0.32	0.32	2.00	0.28	2.08	0.90	2.92	2.92	4.36	1.76	0.84	0.40	
6	0.28	0.52	1.28	0.32	0.96	0.84	2.08	2.56	47.00	2.48	0.90	0.40	
7	0.28	1.14	1.14	0.32	0.78	0.78	1.60	2.80	17.68	1.76	0.90	0.40	
8	0.24	0.48	1.08	0.28	0.66	1.08	1.68	2.80	10.78	1.44	0.66	0.40	
9	0.28	0.44	0.90	0.28	0.52	0.90	1.52	6.22	7.85	1.44	0.66	0.40	
10	0.36	0.56	0.72	0.24	0.48	0.78	1.20	6.22	5.54	1.44	0.72	0.52	
11	1.52	0.40	0.66	0.24	0.44	0.60	1.28	4.36	4.72	1.44	0.72	0.40	
12	0.60	0.36	0.56	0.24	0.40	0.78	5.37	3.88	4.24	1.60	0.72	0.40	
13	0.44	0.32	0.56	0.20	0.48	1.28	4.00	3.04	4.00	1.36	0.66	0.36	
14	0.40	0.28	0.52	0.20	0.44	0.96	2.80	3.04	4.24	1.28	0.66	0.36	
15	0.36	0.48	0.60	0.20	0.52	1.68	2.56	2.56	3.76	1.92	0.66	0.36	
16	0.40	0.44	0.72	0.28	0.96	1.28	2.24	2.92	3.40	1.60	0.60	0.32	
17	0.36	0.78	0.72	0.24	1.20	1.14	2.08	2.56	3.16	1.52	0.56	0.32	
18	0.36	0.56	0.84	0.20	2.56	1.60	2.00	2.40	5.54	2.72	0.56	0.32	
19	0.36	0.44	0.84	0.40	1.36	1.44	2.00	2.24	3.64	1.60	0.56	0.32	
20	0.36	1.14	1.20	0.28	0.96	1.20	1.60	2.24	3.04	1.44	0.56	0.32	
21	0.36	0.90	0.90	0.32	0.84	1.08	1.60	2.00	2.72	1.36	0.60	0.32	
22	0.84	1.28	0.90	0.24	0.78	0.90	1.52	2.00	2.56	1.28	0.60	0.32	
23	0.24	1.08	1.28	0.20	0.90	0.84	1.36	1.92	2.40	1.20	0.60	0.24	
24	0.20	1.20	0.66	0.16	0.78	0.90	1.28	2.64	2.24	1.14	0.56	0.24	
25	0.24	3.40	0.56	0.12	0.60	0.90	1.20	2.08	2.16	1.14	0.52	0.24	
26	0.20	1.36	0.52	0.24	2.40	1.76	1.52	1.84	2.08	1.02	0.52	0.78	
27	0.20	1.28	0.48	0.16	1.92	1.28	1.28	2.24	2.00	1.08	0.52	0.40	
28	0.20	0.78	0.48	0.16	4.60	1.08	3.76	4.36	1.92	1.44	0.52	0.32	
29	0.20	0.90	0.44	0.12	2.08	0.96	3.52	3.04	1.84	1.14	0.52	0.32	
30	0.20	2.16	0.40	0.28	1.60	1.02	3.88	2.56	1.76	1.08		0.32	
31		1.14		0.24	1.84		3.40		1.76	1.02		0.32	
TOTAL	11.08	25.62	27.94	7.96	36.36	32.78	65.39	91.96	198.76	45.78	19.80	11.70	575.13 CMSDAY
MEAN	0.37	0.83	0.93	0.26	1.17	1.09	2.11	3.07	6.41	1.48	0.68	0.38	1.57 CMS
MAX	1.52	3.40	2.64	0.44	4.60	1.76	5.37	6.22	47.00	2.72	1.02	0.78	47.00 CMS
MIN	0.20	0.16	0.40	0.12	0.40	0.60	0.78	1.84	1.76	1.02	0.52	0.24	0.12 CMS
RUNOFF	0.957	2.214	2.414	0.688	3.142	2.832	5.650	7.945	17.173	3.955	1.711	1.011	49.691 MCM

MOMENTARY PEAK 140.00 CMS. AT 3.50 M (A.D). AT 11.00 HOURS. ON DEC 6. 1987
RUNOFF YIELD 13.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1228.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG CHAWANG AT BAN NA SAN, SURAT THANI (X.81)

LOCATION — LAT. 8°48'16" N., LONG. 99°22'27" E., ON LEFT BANK AT BAN NA SAN, TAMBON BAN NA SAN, AMPHOE BAN NA SAN, SURAT THANI.

DRAINAGE AREA — 219.SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK NEAR THE PUMPING STATION.

ELEVATION — +3.797 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 — 1982 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1982 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

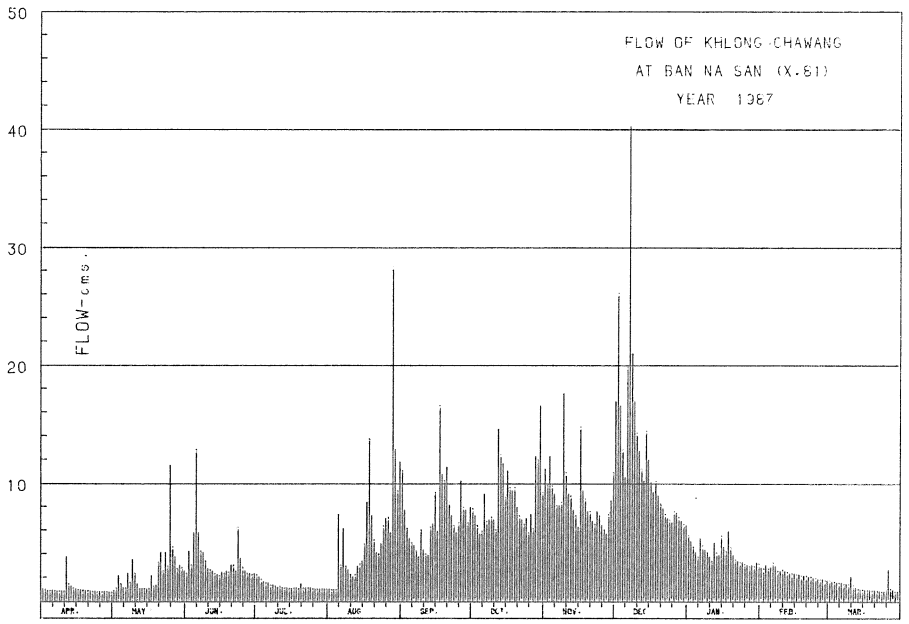
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 86 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.17	1.14	1.32	1.31	1.17	2.02	1.79	2.03	2.39	1.60	1.37	1.26	
2	1.16	1.19	1.49	1.29	1.16	1.78	1.74	1.93	2.82	1.56	1.36	1.25	
3	1.14	1.30	1.39	1.27	1.16	1.65	1.67	2.10	2.37	1.52	1.39	1.25	
4	1.14	1.23	1.62	1.25	1.16	1.58	1.61	1.93	2.14	1.48	1.36	1.24	
5	1.14	1.19	2.14	1.24	1.75	1.55	1.63	1.88	1.98	1.45	1.37	1.24	
6	1.14	1.19	1.62	1.24	1.39	1.53	1.88	1.81	2.55	1.58	1.41	1.24	
7	1.13	1.32	1.49	1.22	1.65	1.49	1.70	1.81	3.19	1.53	1.38	1.23	
8	1.13	1.24	1.48	1.22	1.38	1.45	1.71	1.83	2.62	1.50	1.34	1.23	
9	1.13	1.43	1.42	1.21	1.35	1.64	1.73	2.43	2.39	1.48	1.34	1.23	
10	1.13	1.32	1.36	1.20	1.31	1.50	1.71	2.01	2.23	1.45	1.35	1.29	
11	1.45	1.23	1.35	1.21	1.29	1.47	1.64	1.88	2.13	1.42	1.34	1.22	
12	1.23	1.18	1.34	1.20	1.31	1.46	2.25	1.87	2.03	1.55	1.33	1.19	
13	1.21	1.18	1.32	1.19	1.38	1.66	2.11	1.78	1.96	1.48	1.32	1.17	
14	1.19	1.18	1.31	1.19	1.40	1.68	2.06	1.74	2.24	1.46	1.32	1.16	
15	1.17	1.17	1.30	1.18	1.42	1.89	1.86	1.66	2.08	1.60	1.32	1.16	
16	1.16	1.18	1.33	1.18	1.54	1.63	2.02	2.26	1.95	1.52	1.31	1.15	
17	1.15	1.30	1.32	1.19	1.83	2.37	1.92	1.90	1.89	1.49	1.31	1.15	
18	1.15	1.21	1.34	1.19	2.20	2.00	1.90	1.85	1.96	1.63	1.30	1.15	
19	1.14	1.22	1.33	1.18	1.74	1.96	1.92	1.77	1.87	1.52	1.30	1.14	
20	1.14	1.41	1.39	1.23	1.57	2.04	1.80	1.77	1.82	1.46	1.30	1.14	
21	1.13	1.48	1.39	1.19	1.48	1.83	1.74	1.70	1.79	1.43	1.29	1.14	
22	1.13	1.34	1.34	1.19	1.47	1.74	1.71	1.68	1.75	1.42	1.29	1.13	
23	1.13	1.48	1.66	1.19	1.54	1.67	1.68	1.77	1.72	1.41	1.28	1.12	
24	1.12	1.38	1.44	1.19	1.67	1.62	1.72	1.74	1.71	1.41	1.28	1.12	
25	1.12	2.05	1.37	1.18	1.72	1.69	1.62	1.67	1.69	1.40	1.27	1.15	
26	1.12	1.52	1.34	1.17	1.73	1.96	1.75	1.64	1.77	1.39	1.27	1.35	
27	1.12	1.45	1.32	1.17	1.62	1.80	1.65	1.61	1.76	1.38	1.27	1.18	
28	1.12	1.36	1.32	1.17	2.89	1.78	2.10	1.75	1.73	1.39	1.26	1.15	
29	1.11	1.39	1.31	1.17	2.14	1.69	2.08	1.84	1.70	1.38	1.26	1.13	
30	1.11	1.37	1.32	1.17	1.90	1.80	2.37	2.01	1.68	1.41		1.12	
31		1.34		1.17	2.07		1.89		1.67	1.40		1.12	
MEAN	1.15	1.32	1.42	1.20	1.59	1.73	1.84	1.86	2.05	1.47	1.32	1.19	
MAX	1.45	2.05	2.14	1.31	2.89	2.37	2.37	2.43	3.19	1.63	1.41	1.35	3.19
MIN	1.11	1.14	1.30	1.17	1.16	1.45	1.61	1.61	1.67	1.38	1.26	1.12	1.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.40 M (A.D), AT 18.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.85 M (A.D)
LEFT BANK ELEVATION 5.04 M (A.D)
RIGHT BANK ELEVATION 3.93 M (A.D), DRAINAGE AREA 219 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.06	0.93	2.40	2.30	1.06	11.10	7.88	11.25	16.94	5.60	2.90	1.80	
2	1.02	1.16	4.28	2.10	1.02	7.76	7.28	9.82	26.14	5.12	2.80	1.70	
3	0.93	2.20	3.10	1.90	1.02	6.20	6.44	12.30	16.60	4.64	3.10	1.70	
4	0.93	1.50	5.84	1.70	1.02	5.36	5.72	9.82	12.90	4.16	2.80	1.60	
5	0.93	1.16	12.90	1.60	7.40	5.00	5.96	9.12	10.52	3.80	2.90	1.60	
6	0.93	1.16	5.84	1.60	3.10	4.76	9.12	8.14	19.87	5.36	3.32	1.60	
7	0.88	2.40	4.28	1.40	6.20	4.28	6.80	8.14	40.26	4.76	3.00	1.50	
8	0.88	1.60	4.16	1.40	3.00	3.80	6.92	8.42	21.27	4.40	2.60	1.50	
9	0.88	3.56	3.44	1.30	2.70	6.08	7.16	17.65	16.94	4.16	2.60	1.50	
10	0.88	2.40	2.80	1.20	2.30	4.40	6.92	10.95	14.30	3.80	2.70	2.10	
11	3.80	1.50	2.70	1.30	2.10	4.04	6.08	9.12	12.75	3.44	2.60	1.40	
12	1.50	1.11	2.60	1.20	2.30	3.92	14.62	8.98	11.25	5.00	2.50	1.16	
13	1.30	1.11	2.40	1.16	3.00	6.32	12.45	7.76	10.24	4.16	2.40	1.06	
14	1.16	1.11	2.30	1.16	3.20	6.56	11.70	7.28	14.46	3.92	2.40	1.02	
15	1.06	1.06	2.20	1.11	3.44	9.26	8.84	6.32	12.00	5.60	2.40	1.02	
16	1.02	1.11	2.50	1.11	4.88	5.96	11.10	14.79	10.10	4.64	2.30	0.97	
17	0.97	2.20	2.40	1.16	8.42	16.60	9.68	9.40	9.26	4.28	2.30	0.97	
18	0.97	1.30	2.60	1.16	13.80	10.80	9.40	8.70	10.24	5.96	2.20	0.97	
19	0.93	1.40	2.50	1.11	7.28	10.24	9.68	7.64	8.98	4.64	2.20	0.93	
20	0.93	3.32	3.10	1.50	5.24	11.40	8.00	7.64	8.28	3.92	2.20	0.93	
21	0.88	4.16	3.10	1.16	4.16	8.42	7.28	6.80	7.88	3.56	2.10	0.93	
22	0.88	2.60	2.60	1.16	4.04	7.28	6.92	6.56	7.40	3.44	2.10	0.88	
23	0.88	4.16	6.32	1.16	4.88	6.44	6.56	7.64	7.04	3.32	2.00	0.84	
24	0.84	3.00	3.68	1.16	6.44	5.84	7.04	7.28	6.92	3.32	2.00	0.84	
25	0.84	11.55	2.90	1.11	7.04	6.68	5.84	6.44	6.68	3.20	1.90	0.97	
26	0.84	4.64	2.60	1.06	7.16	10.24	7.40	6.08	7.64	3.10	1.90	2.70	
27	0.84	3.80	2.40	1.06	5.84	8.00	6.20	5.72	7.52	3.00	1.90	1.11	
28	0.84	2.80	2.40	1.06	28.38	7.76	12.30	7.40	7.16	3.10	1.80	0.97	
29	0.79	3.10	2.30	1.06	12.90	6.68	12.00	8.56	6.80	3.00	1.80	0.88	
30	0.79	2.90	2.40	1.06	9.40	8.00	16.60	10.95	6.56	3.32		0.84	
31		2.60		1.06	11.85		9.26		6.44	3.20		0.84	
TOTAL	31.38	78.60	105.04	40.58	184.57	219.18	269.15	266.67	381.34	126.92	69.72	38.83	1811.98 CMSDAY
MEAN	1.05	2.54	3.50	1.31	5.95	7.31	8.68	8.89	12.30	4.09	2.40	1.25	4.95 CMS
MAX	3.80	11.55	12.90	2.30	28.38	16.60	16.60	17.65	40.26	5.96	3.32	2.70	40.26 CMS
MIN	0.79	0.93	2.20	1.06	1.02	3.80	5.72	5.72	6.44	3.00	1.80	0.84	0.79 CMS
RUNOFF	2.711	6.791	9.075	3.506	15.947	18.937	23.255	23.040	32.948	10.966	6.024	3.355	156.555 MCM

MOMENTARY PEAK 52.20 CMS, AT 3.40 M (A.D), AT 18.00 HOURS, ON DEC 6, 1987

RUNOFF YIELD 22.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 238.36 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

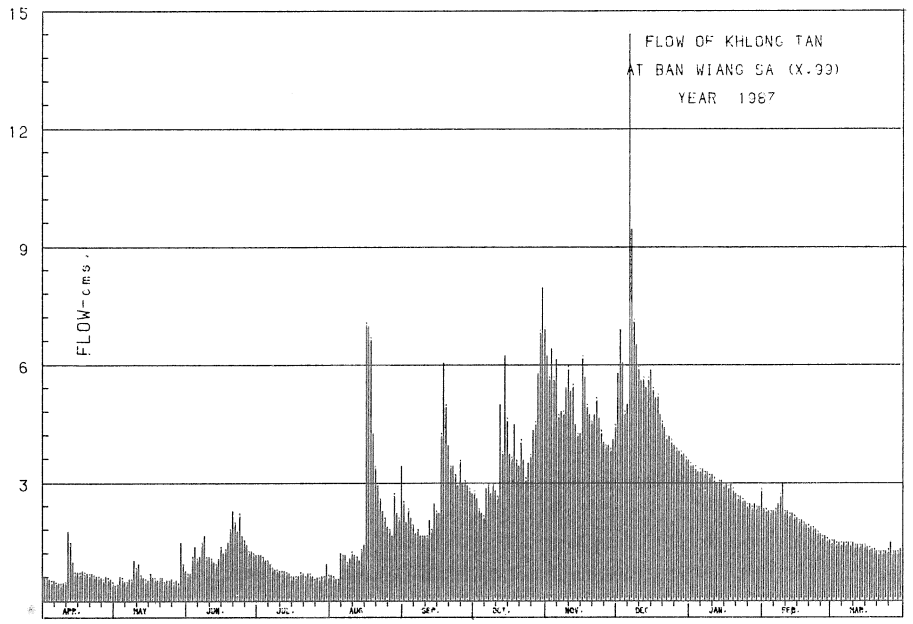
KHLONG TAN AT WIANG SA, SURAT THANI (X.99)

LOCATION	LAT. 8°-38'-07" N., LONG. 99°-22'-59" E., ON RIGHT BANK UPSTREAM SIDE OF THE BRIDGE ON HIGHWAY NEAR BAN WIANG SA SCHOOL, AMPHOE WIANG SA, SURAT THANI.
DRAINAGE AREA	62 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE SITE.
ELEVATION	+4.783 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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 65 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D). WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.48	0.57	0.68	0.56	0.92	0.96	1.39	1.34	1.06	0.89	0.75	
2	0.54	0.49	0.57	0.68	0.55	0.83	0.93	1.33	1.47	1.05	0.89	0.75	
3	0.53	0.55	0.67	0.67	0.53	0.89	0.89	1.41	1.37	1.05	0.88	0.74	
4	0.52	0.54	0.72	0.65	0.53	0.85	0.87	1.33	1.23	1.03	0.88	0.74	
5	0.52	0.51	0.66	0.65	0.69	0.82	0.86	1.38	1.25	1.04	0.88	0.74	
6	0.51	0.51	0.67	0.63	0.68	0.78	0.97	1.22	2.13	1.04	0.89	0.74	
7	0.50	0.53	0.74	0.61	0.68	0.80	0.99	1.23	1.71	1.03	0.91	0.74	
8	0.50	0.53	0.77	0.60	0.64	0.77	0.95	1.23	1.49	1.03	0.95	0.74	
9	0.50	0.65	0.67	0.60	0.66	0.77	0.99	1.30	1.42	1.02	0.99	0.74	
10	0.51	0.61	0.67	0.59	0.70	0.77	0.96	1.36	1.36	1.02	0.88	0.74	
11	0.79	0.63	0.66	0.59	0.68	0.77	0.94	1.29	1.32	1.01	0.88	0.73	
12	0.74	0.56	0.64	0.59	0.67	0.84	1.25	1.31	1.33	0.99	0.87	0.73	
13	0.64	0.54	0.63	0.58	0.65	0.80	1.10	1.19	1.30	1.00	0.87	0.73	
14	0.58	0.53	0.66	0.57	0.71	0.91	1.39	1.16	1.33	1.00	0.86	0.73	
15	0.58	0.52	0.72	0.55	0.73	0.88	1.21	1.16	1.35	0.99	0.85	0.73	
16	0.58	0.57	0.69	0.55	1.48	0.87	1.09	1.39	1.30	0.99	0.84	0.72	
17	0.59	0.54	0.71	0.55	1.47	1.16	1.08	1.33	1.27	0.98	0.84	0.72	
18	0.58	0.54	0.74	0.55	1.44	1.37	1.19	1.25	1.28	0.99	0.83	0.71	
19	0.57	0.52	0.80	0.58	1.16	1.25	1.07	1.22	1.22	0.97	0.82	0.71	
20	0.57	0.54	0.88	0.57	1.05	1.12	1.05	1.20	1.20	0.95	0.82	0.70	
21	0.57	0.54	0.83	0.55	0.98	1.05	1.14	1.22	1.18	0.94	0.81	0.70	
22	0.56	0.51	0.79	0.57	0.93	1.05	1.07	1.27	1.15	0.94	0.81	0.70	
23	0.55	0.52	0.87	0.57	0.88	1.02	1.01	1.21	1.15	0.93	0.80	0.70	
24	0.55	0.52	0.77	0.55	0.85	0.98	1.06	1.17	1.14	0.92	0.79	0.70	
25	0.54	0.53	0.75	0.53	0.81	1.07	1.09	1.13	1.12	0.91	0.78	0.71	
26	0.53	0.51	0.73	0.54	0.80	0.99	1.17	1.12	1.11	0.91	0.77	0.74	
27	0.55	0.52	0.70	0.54	0.77	1.00	1.20	1.12	1.10	0.90	0.77	0.70	
28	0.54	0.50	0.70	0.55	0.95	0.98	1.34	1.11	1.10	0.91	0.76	0.70	
29	0.53	0.74	0.69	0.55	0.87	0.97	1.46	1.14	1.09	0.90	0.75	0.70	
30	0.51	0.63	0.68	0.63	0.85	0.95	1.57	1.19	1.08	0.90		0.71	
31		0.59		0.56	1.05		1.47		1.07	0.97		0.71	
MEAN	0.56	0.55	0.71	0.59	0.84	0.94	1.11	1.25	1.29	0.98	0.85	0.72	
MAX	0.79	0.74	0.88	0.68	1.48	1.37	1.57	1.41	2.13	1.06	0.99	0.75	2.13
MIN	0.50	0.48	0.57	0.53	0.53	0.77	0.86	1.11	1.07	0.90	0.75	0.70	0.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.52 M (A.D), AT 18.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.07 M (A.D)
LEFT BANK ELEVATION 6.23 M (A.D)
RIGHT BANK ELEVATION 6.20 M (A.D), DRAINAGE AREA 62 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.625	0.396	0.695	1.168	0.660	2.532	2.796	6.230	5.780	3.504	2.342	1.540	
2	0.590	0.423	0.695	1.168	0.625	1.994	2.598	5.690	6.978	3.430	2.342	1.540	
3	0.555	0.625	1.122	1.122	0.555	2.342	2.342	6.414	6.050	3.430	2.284	1.484	
4	0.520	0.590	1.372	1.030	0.555	2.110	2.226	5.690	4.818	3.282	2.284	1.484	
5	0.520	0.485	1.076	1.030	1.214	1.936	2.168	6.140	4.990	3.356	2.284	1.484	
6	0.485	0.485	1.122	0.938	1.168	1.708	2.862	4.732	14.484	3.356	2.342	1.484	
7	0.450	0.555	1.484	0.846	1.168	1.820	2.994	4.818	9.452	3.282	2.466	1.484	
8	0.450	0.555	1.652	0.800	0.984	1.652	2.730	4.818	7.166	3.282	2.730	1.484	
9	0.450	1.030	1.122	0.800	1.076	1.652	2.994	5.420	6.508	3.208	2.994	1.484	
10	0.485	0.846	1.122	0.765	1.260	1.652	2.796	5.960	5.960	3.208	2.284	1.484	
11	1.764	0.938	1.076	0.765	1.168	1.652	2.664	5.334	5.600	3.134	2.284	1.428	
12	1.484	0.660	0.984	0.765	1.122	2.052	4.990	5.510	5.690	2.994	2.226	1.428	
13	0.984	0.590	0.938	0.730	1.030	1.820	3.800	4.484	5.420	3.060	2.226	1.428	
14	0.730	0.555	1.076	0.695	1.316	2.466	6.230	4.256	5.690	3.060	2.168	1.428	
15	0.730	0.520	1.372	0.625	1.428	2.284	4.646	4.256	5.870	2.994	2.110	1.428	
16	0.730	0.695	1.214	0.625	7.072	2.226	3.726	6.230	5.420	2.994	2.052	1.372	
17	0.765	0.590	1.316	0.625	6.978	4.256	3.652	5.690	5.162	2.928	2.052	1.372	
18	0.730	0.590	1.484	0.625	6.696	6.050	4.484	4.990	5.248	2.994	1.994	1.316	
19	0.695	0.520	1.820	0.730	4.256	4.990	3.578	4.732	4.732	2.862	1.936	1.316	
20	0.695	0.590	2.284	0.695	3.430	3.952	3.430	4.560	4.560	2.730	1.936	1.260	
21	0.695	0.590	1.994	0.625	2.928	3.430	4.104	4.732	4.408	2.664	1.878	1.260	
22	0.660	0.485	1.764	0.695	2.598	3.430	3.578	5.162	4.180	2.664	1.878	1.260	
23	0.625	0.520	2.226	0.695	2.284	3.208	3.134	4.646	4.180	2.598	1.820	1.260	
24	0.625	0.520	1.652	0.625	2.110	2.928	3.504	4.332	4.104	2.532	1.764	1.260	
25	0.590	0.555	1.540	0.555	1.878	3.578	3.726	4.028	3.952	2.466	1.708	1.316	
26	0.555	0.485	1.428	0.590	1.820	2.994	4.332	3.952	3.876	2.466	1.652	1.484	
27	0.625	0.520	1.260	0.590	1.652	3.060	4.560	3.952	3.800	2.400	1.652	1.260	
28	0.590	0.450	1.260	0.625	2.730	2.928	5.780	3.876	3.800	2.466	1.596	1.260	
29	0.555	1.484	1.214	0.625	2.226	2.862	6.884	4.104	3.726	2.400	1.540	1.260	
30	0.485	0.938	1.168	0.938	2.110	2.730	7.960	4.484	3.652	2.400		1.316	
31		0.765		0.660	3.430		6.978		3.578	2.862		1.316	
TOTAL	20.442	19.550	40.532	23.770	69.527	82.294	122.246	149.222	168.834	91.006	60.824	42.980	891.227 CMSDAY
MEAN	0.681	0.631	1.351	0.767	2.243	2.743	3.943	4.974	5.446	2.936	2.097	1.386	2.435 CMS
MAX	1.764	1.484	2.284	1.168	7.072	6.050	7.960	6.414	14.484	3.504	2.994	1.540	14.484 CMS
MIN	0.450	0.396	0.695	0.555	0.555	1.652	2.168	3.876	3.578	2.400	1.540	1.260	0.396 CMS
RUNOFF	1.766	1.689	3.502	2.054	6.007	7.110	10.562	12.893	14.587	7.863	5.255	3.713	77.002 MCM

MOMENTARY PEAK 19.68 CMS, AT 2.52 M (A.D), AT 18.00 HOURS, ON DEC 6, 1987

RUNOFF YIELD 39.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 317.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

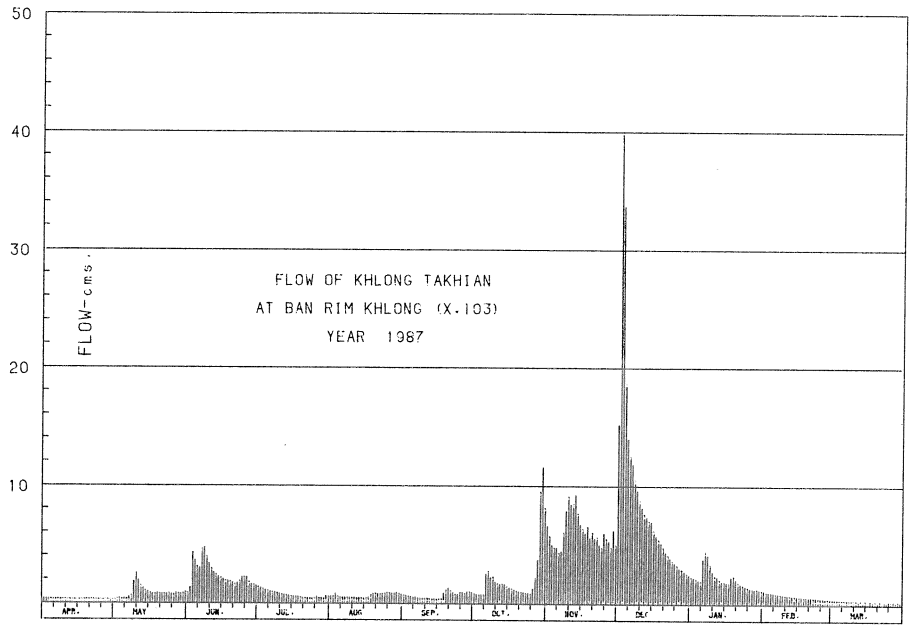
KHLONG TAKHIAN AT BAN RIM KHLONG, SURAT THANI (X.103)

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	+7.201 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+14.745 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	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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 144 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL). WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.69	7.64	7.87	7.99	7.76	7.80	7.85	8.80	9.68	8.17	7.92	7.70	
2	7.68	7.69	7.98	7.97	7.77	7.79	7.82	8.69	11.14	8.16	7.90	7.69	
3	7.68	7.71	8.50	7.95	7.84	7.77	7.81	8.59	10.87	8.14	7.89	7.69	
4	7.68	7.69	8.40	7.93	7.77	7.76	7.81	8.56	9.97	8.12	7.88	7.68	
5	7.67	7.70	8.32	7.92	7.74	7.74	7.82	8.56	9.57	8.11	7.87	7.68	
6	7.67	7.69	8.30	7.90	7.73	7.74	8.21	8.50	9.43	8.42	7.86	7.67	
7	7.67	7.73	8.54	7.89	7.73	7.72	8.26	8.52	9.36	8.52	7.85	7.67	
8	7.67	7.79	8.56	7.88	7.73	7.71	8.16	8.73	9.23	8.47	7.84	7.66	
9	7.66	8.09	8.45	7.86	7.73	7.71	8.17	8.95	9.14	8.35	7.83	7.66	
10	7.67	8.22	8.36	7.84	7.73	7.71	8.09	9.09	9.05	8.25	7.82	7.66	
11	7.66	8.11	8.29	7.82	7.73	7.71	8.06	9.01	8.98	8.18	7.81	7.66	
12	7.66	8.01	8.23	7.80	7.72	7.70	8.05	9.02	8.92	8.17	7.80	7.65	
13	7.66	7.96	8.20	7.80	7.72	7.69	8.05	9.10	8.89	8.13	7.79	7.65	
14	7.66	7.92	8.17	7.78	7.72	7.69	8.04	8.93	8.85	8.10	7.79	7.65	
15	7.65	7.89	8.15	7.77	7.71	7.69	8.01	8.81	8.84	8.09	7.78	7.65	
16	7.65	7.86	8.13	7.76	7.72	7.69	7.98	8.77	8.75	8.08	7.77	7.64	
17	7.65	7.83	8.11	7.76	7.73	7.70	7.96	8.72	8.69	8.07	7.77	7.64	
18	7.66	7.83	8.10	7.75	7.81	7.86	7.94	8.79	8.65	8.17	7.76	7.63	
19	7.67	7.85	8.09	7.74	7.84	7.93	7.92	8.67	8.61	8.18	7.75	7.63	
20	7.67	7.84	8.07	7.72	7.85	7.97	7.90	8.73	8.56	8.13	7.75	7.63	
21	7.67	7.83	8.04	7.72	7.83	7.92	7.89	8.66	8.51	8.08	7.75	7.63	
22	7.67	7.83	8.06	7.71	7.83	7.87	7.88	8.68	8.47	8.05	7.74	7.62	
23	7.66	7.82	8.10	7.71	7.84	7.83	7.87	8.59	8.43	8.03	7.74	7.62	
24	7.66	7.85	8.16	7.70	7.85	7.82	7.86	8.56	8.40	8.01	7.73	7.62	
25	7.65	7.82	8.16	7.72	7.87	7.88	7.85	8.72	8.37	7.99	7.72	7.63	
26	7.65	7.82	8.16	7.75	7.87	7.88	7.96	8.66	8.34	7.97	7.72	7.63	
27	7.65	7.86	8.08	7.72	7.85	7.86	8.15	8.63	8.30	7.96	7.71	7.63	
28	7.65	7.84	8.04	7.72	7.85	7.89	8.41	8.56	8.28	7.95	7.71	7.63	
29	7.64	7.83	8.03	7.71	7.87	7.90	9.13	8.75	8.25	7.96	7.70	7.62	
30	7.64	7.85	8.01	7.77	7.85	7.88	9.34	8.59	8.22	7.94		7.62	
31		7.88		7.76	7.82		8.98		8.20	7.93		7.62	
MEAN	7.66	7.85	8.13	7.80	7.79	7.79	8.10	8.73	8.93	8.13	7.79	7.65	
MAX	7.69	8.22	8.56	7.99	7.87	7.97	9.34	9.10	11.14	8.52	7.92	7.70	11.14
MIN	7.64	7.64	7.87	7.70	7.71	7.69	7.81	8.50	8.20	7.93	7.70	7.62	7.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.37 M (MSL), AT 20.00 HOURS, ON DEC 2, 1987
ZERO GAGE AT BOTTOM ELEVATION 7.20 M (MSL), RIVER BED 7.15 M (MSL)
LEFT BANK ELEVATION 15.15 M (MSL)
RIGHT BANK ELEVATION 14.87 M (MSL), DRAINAGE AREA 180 SQUARE KILOMETERS



DISCHARGE. IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.28	0.91	1.40	0.58	0.70	0.85	6.60	15.18	2.28	1.09	0.40	
2	0.36	0.38	1.36	1.31	0.61	0.67	0.76	5.72	40.06	2.23	1.00	0.38	
3	0.36	0.43	4.30	1.22	0.82	0.61	0.73	4.98	33.67	2.12	0.97	0.38	
4	0.36	0.38	3.65	1.13	0.61	0.58	0.73	4.75	18.68	2.01	0.94	0.36	
5	0.34	0.40	3.13	1.09	0.52	0.52	0.76	4.75	13.97	1.95	0.91	0.36	
6	0.34	0.38	3.00	1.00	0.49	0.52	2.50	4.30	12.50	3.78	0.88	0.34	
7	0.34	0.49	4.60	0.97	0.49	0.46	2.78	4.45	11.80	4.45	0.85	0.34	
8	0.34	0.67	4.75	0.94	0.49	0.43	2.23	6.04	10.50	4.11	0.82	0.32	
9	0.32	1.85	3.97	0.88	0.49	0.43	2.28	7.85	9.60	3.32	0.79	0.32	
10	0.34	2.56	3.39	0.82	0.49	0.43	1.85	9.11	8.75	2.72	0.76	0.32	
11	0.32	1.95	2.94	0.76	0.49	0.43	1.72	8.39	8.12	2.34	0.73	0.32	
12	0.32	1.49	2.61	0.70	0.46	0.40	1.67	8.48	7.58	2.28	0.70	0.30	
13	0.32	1.27	2.45	0.70	0.46	0.38	1.67	9.20	7.32	2.06	0.67	0.30	
14	0.32	1.09	2.28	0.64	0.46	0.38	1.63	7.67	7.00	1.90	0.67	0.30	
15	0.30	0.97	2.17	0.61	0.43	0.38	1.49	6.68	6.92	1.85	0.64	0.30	
16	0.30	0.88	2.06	0.58	0.46	0.38	1.36	6.36	6.20	1.81	0.61	0.28	
17	0.30	0.79	1.95	0.58	0.49	0.40	1.27	5.96	5.72	1.76	0.61	0.28	
18	0.32	0.79	1.90	0.55	0.73	0.88	1.18	6.52	5.42	2.28	0.58	0.26	
19	0.34	0.85	1.85	0.52	0.82	1.13	1.09	5.58	5.12	2.34	0.55	0.26	
20	0.34	0.82	1.76	0.46	0.85	1.31	1.00	6.04	4.75	2.06	0.55	0.26	
21	0.34	0.79	1.63	0.46	0.79	1.09	0.97	5.50	4.38	1.81	0.55	0.26	
22	0.34	0.79	1.72	0.43	0.79	0.91	0.94	5.65	4.11	1.67	0.52	0.24	
23	0.32	0.76	1.90	0.43	0.82	0.79	0.91	4.98	3.85	1.58	0.52	0.24	
24	0.32	0.85	2.23	0.40	0.85	0.76	0.88	4.75	3.65	1.49	0.49	0.24	
25	0.30	0.76	2.23	0.46	0.91	0.94	0.85	5.96	3.45	1.40	0.46	0.26	
26	0.30	0.76	2.23	0.55	0.91	0.94	1.27	5.50	3.26	1.31	0.46	0.26	
27	0.30	0.88	1.81	0.46	0.85	0.88	2.17	5.28	3.00	1.27	0.43	0.26	
28	0.30	0.82	1.63	0.46	0.85	0.97	3.71	4.75	2.89	1.22	0.43	0.26	
29	0.28	0.79	1.58	0.43	0.91	1.00	9.50	6.20	2.72	1.27	0.40	0.24	
30	0.28	0.85	1.49	0.61	0.85	0.94	11.60	4.98	2.56	1.18		0.24	
31		0.94		0.58	0.76		8.12		2.45	1.13		0.24	
TOTAL	9.74	27.71	73.48	22.13	20.53	20.64	70.47	182.98	275.18	64.98	19.58	9.12	796.54 CMSDAY
MEAN	0.32	0.89	2.45	0.71	0.66	0.69	2.27	6.10	8.88	2.10	0.68	0.29	2.18 CMS
MAX	0.38	2.56	4.75	1.40	0.91	1.31	11.60	9.20	40.06	4.45	1.09	0.40	40.06 CMS
MIN	0.28	0.28	0.91	0.40	0.43	0.38	0.73	4.30	2.45	1.13	0.40	0.24	0.24 CMS
RUNOFF	0.842	2.394	6.349	1.912	1.774	1.783	6.089	15.809	23.776	5.614	1.692	0.788	68.821 MCM

MOMENTARY PEAK 46.29 CMS, AT 11.37 M (MSL), AT 20.00 HOURS, ON DEC 2, 1987

RUNOFF YIELD 12.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 257.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

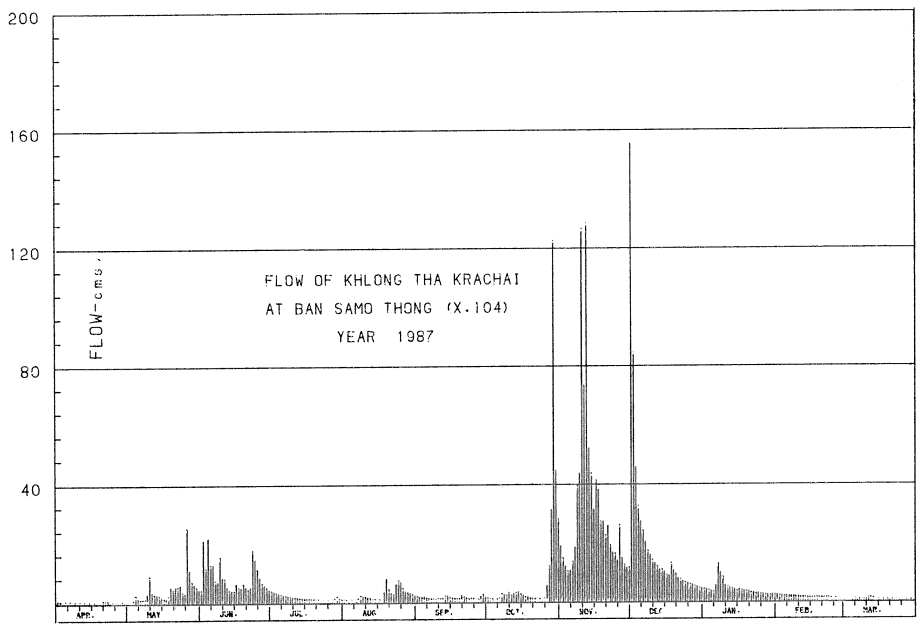
KHLONG THA APACHAI AT BAN SAMO THONG, SURAT THANI (X.104)

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	+6.702 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 21 METERS DOWNSTREAM FROM THE TOP STAFF GAGE.
ELEVATION	+15.447 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 90 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.24	7.20	7.49	7.47	7.26	7.35	7.31	8.04	10.46	7.49	7.37	7.26	
2	7.23	7.20	8.10	7.45	7.25	7.33	7.27	7.92	9.37	7.48	7.35	7.26	
3	7.23	7.25	7.81	7.43	7.26	7.32	7.27	7.82	8.67	7.47	7.35	7.25	
4	7.23	7.39	8.12	7.41	7.26	7.33	7.27	7.76	8.39	7.45	7.34	7.25	
5	7.23	7.31	7.85	7.40	7.25	7.31	7.27	7.77	8.26	7.44	7.34	7.25	
6	7.23	7.28	7.85	7.38	7.30	7.30	7.30	7.88	8.18	7.55	7.33	7.25	
7	7.22	7.29	7.64	7.37	7.30	7.29	7.41	8.03	8.08	7.85	7.33	7.24	
8	7.22	7.30	7.62	7.36	7.37	7.28	7.38	8.54	8.00	7.74	7.33	7.24	
9	7.22	7.41	7.94	7.35	7.34	7.27	7.37	8.63	7.95	7.68	7.32	7.24	
10	7.22	7.71	7.68	7.33	7.34	7.29	7.43	10.03	7.90	7.55	7.32	7.25	
11	7.22	7.44	7.67	7.33	7.32	7.29	7.37	9.18	7.86	7.53	7.31	7.30	
12	7.21	7.41	7.54	7.32	7.31	7.30	7.40	10.06	7.82	7.51	7.31	7.30	
13	7.21	7.39	7.49	7.31	7.27	7.36	7.43	8.80	7.78	7.50	7.31	7.27	
14	7.21	7.38	7.47	7.30	7.27	7.36	7.44	8.63	7.78	7.48	7.30	7.25	
15	7.21	7.33	7.47	7.29	7.27	7.33	7.40	8.36	7.75	7.46	7.30	7.25	
16	7.21	7.31	7.59	7.29	7.26	7.31	7.37	8.58	7.71	7.48	7.30	7.25	
17	7.21	7.29	7.53	7.29	7.26	7.30	7.34	8.51	7.70	7.46	7.30	7.23	
18	7.21	7.37	7.52	7.28	7.51	7.29	7.32	8.26	7.86	7.45	7.30	7.23	
19	7.23	7.54	7.59	7.28	7.66	7.29	7.30	8.26	7.77	7.45	7.30	7.23	
20	7.24	7.50	7.54	7.27	7.50	7.36	7.29	8.14	7.72	7.44	7.30	7.21	
21	7.24	7.54	7.50	7.27	7.42	7.34	7.28	8.22	7.66	7.42	7.30	7.21	
22	7.24	7.55	7.53	7.26	7.40	7.31	7.28	8.05	7.65	7.41	7.30	7.21	
23	7.22	7.57	8.01	7.26	7.58	7.28	7.27	7.98	7.62	7.40	7.29	7.24	
24	7.21	7.45	7.91	7.25	7.64	7.30	7.27	7.97	7.60	7.40	7.28	7.21	
25	7.21	7.42	7.79	7.25	7.61	7.29	7.30	7.89	7.59	7.39	7.28	7.22	
26	7.21	8.21	7.68	7.25	7.52	7.27	7.55	8.23	7.57	7.38	7.27	7.21	
27	7.21	7.78	7.60	7.30	7.45	7.27	7.83	7.92	7.56	7.37	7.27	7.21	
28	7.21	7.62	7.56	7.30	7.43	7.34	8.36	7.84	7.54	7.37	7.27	7.21	
29	7.20	7.58	7.53	7.35	7.42	7.39	9.97	7.80	7.53	7.37	7.26	7.21	
30	7.20	7.54	7.49	7.30	7.40	7.32	8.65	7.81	7.51	7.37		7.19	
31		7.49		7.27	7.36		8.28		7.50	7.37		7.21	
MEAN	7.22	7.45	7.67	7.32	7.38	7.31	7.55	8.30	7.95	7.47	7.31	7.24	
MAX	7.24	8.21	8.12	7.47	7.66	7.39	9.97	10.06	10.46	7.85	7.37	7.30	10.46
MIN	7.20	7.20	7.47	7.25	7.25	7.27	7.27	7.76	7.50	7.37	7.26	7.19	7.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.92 M (MSL), AT 9.00 HOURS, ON DEC 1, 1987
ZERO GAGE AT BOTTOM ELEVATION 6.70 M (MSL), RIVER BED 6.94 M (MSL)
LEFT BANK ELEVATION 16.62 M (MSL)
RIGHT BANK ELEVATION 16.07 M (MSL), DRAINAGE AREA 354 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.60	4.43	4.09	1.14	2.20	1.64	18.98	155.46	4.43	2.48	1.14	
2	0.87	0.60	21.20	3.75	1.05	1.92	1.23	15.02	84.63	4.26	2.20	1.14	
3	0.87	1.05	11.88	3.41	1.14	1.78	1.23	12.16	45.70	4.09	2.20	1.05	
4	0.87	2.76	21.96	3.07	1.14	1.92	1.23	10.56	32.60	3.75	2.06	1.05	
5	0.87	1.64	13.00	2.90	1.05	1.64	1.23	10.82	27.40	3.58	2.06	1.05	
6	0.87	1.32	13.00	2.62	1.50	1.50	1.50	13.84	24.24	5.65	1.92	1.05	
7	0.78	1.41	7.62	2.48	1.50	1.41	3.07	18.61	20.46	13.00	1.92	0.96	
8	0.78	1.50	7.16	2.34	2.48	1.32	2.62	39.44	17.50	10.04	1.92	0.96	
9	0.78	3.07	15.64	2.20	2.06	1.23	2.48	43.70	15.95	8.54	1.78	0.96	
10	0.78	9.26	8.54	1.92	2.06	1.41	3.41	126.61	14.40	5.65	1.78	1.05	
11	0.78	3.58	8.31	1.92	1.78	1.41	2.48	73.53	13.28	5.23	1.64	1.50	
12	0.69	3.07	5.44	1.78	1.64	1.50	2.90	128.58	12.16	4.81	1.64	1.50	
13	0.69	2.76	4.43	1.64	1.23	2.34	3.41	52.20	11.08	4.60	1.64	1.23	
14	0.69	2.62	4.09	1.50	1.23	2.34	3.58	43.70	11.08	4.26	1.50	1.05	
15	0.69	1.92	4.09	1.41	1.23	1.92	2.90	31.40	10.30	3.92	1.50	1.05	
16	0.69	1.64	6.49	1.41	1.14	1.64	2.48	41.28	9.26	4.26	1.50	1.05	
17	0.69	1.41	5.23	1.41	1.14	1.50	2.06	38.06	9.00	3.92	1.50	0.87	
18	0.69	2.48	5.02	1.32	4.81	1.41	1.78	27.40	13.28	3.75	1.50	0.87	
19	0.87	5.44	6.49	1.32	8.08	1.41	1.50	27.40	10.82	3.75	1.50	0.87	
20	0.96	4.60	5.44	1.23	4.60	2.34	1.41	22.72	9.52	3.58	1.50	0.69	
21	0.96	5.44	4.60	1.23	3.24	2.06	1.32	25.80	8.08	3.24	1.50	0.69	
22	0.96	5.65	5.23	1.14	2.90	1.64	1.32	19.35	7.85	3.07	1.50	0.69	
23	0.78	6.07	17.87	1.14	6.28	1.32	1.23	16.88	7.16	2.90	1.41	0.96	
24	0.69	3.75	14.71	1.05	7.62	1.50	1.23	16.57	6.70	2.90	1.32	0.69	
25	0.69	3.24	11.34	1.05	6.93	1.41	1.50	14.12	6.49	2.76	1.32	0.78	
26	0.69	25.40	8.54	1.05	5.02	1.23	5.65	26.20	6.07	2.62	1.23	0.69	
27	0.69	11.08	6.70	1.50	3.75	1.23	12.44	15.02	5.86	2.48	1.23	0.69	
28	0.69	7.16	5.86	1.50	3.41	2.06	31.40	12.72	5.44	2.48	1.23	0.69	
29	0.60	6.28	5.23	2.20	3.24	2.76	122.69	11.60	5.23	2.48	1.14	0.69	
30	0.60	5.44	4.43	1.50	2.90	1.78	44.70	11.88	4.81	2.48		0.54	
31		4.43		1.23	2.34		28.20		4.60	2.48		0.69	
TOTAL	23.22	136.67	263.97	58.31	89.63	51.13	295.82	966.15	616.41	134.96	47.62	28.89	2712.78 CMSDAY
MEAN	0.77	4.41	8.80	1.88	2.89	1.70	9.54	32.21	19.88	4.35	1.64	0.93	7.41 CMS
MAX	0.96	25.40	21.96	4.09	8.08	2.76	122.69	128.58	155.46	13.00	2.48	1.50	155.46 CMS
MIN	0.60	0.60	4.09	1.05	1.05	1.23	1.23	10.56	4.60	2.48	1.14	0.54	0.54 CMS
RUNOFF	2.006	11.808	22.807	5.038	7.744	4.418	25.559	83.475	53.258	11.661	4.114	2.496	234.384 MCM

MOMENTARY PEAK 187.40 CMS, AT 10.92 M (MSL), AT 9.00 HOURS, ON DEC 1, 1987

RUNOFF YIELD 20.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 529.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

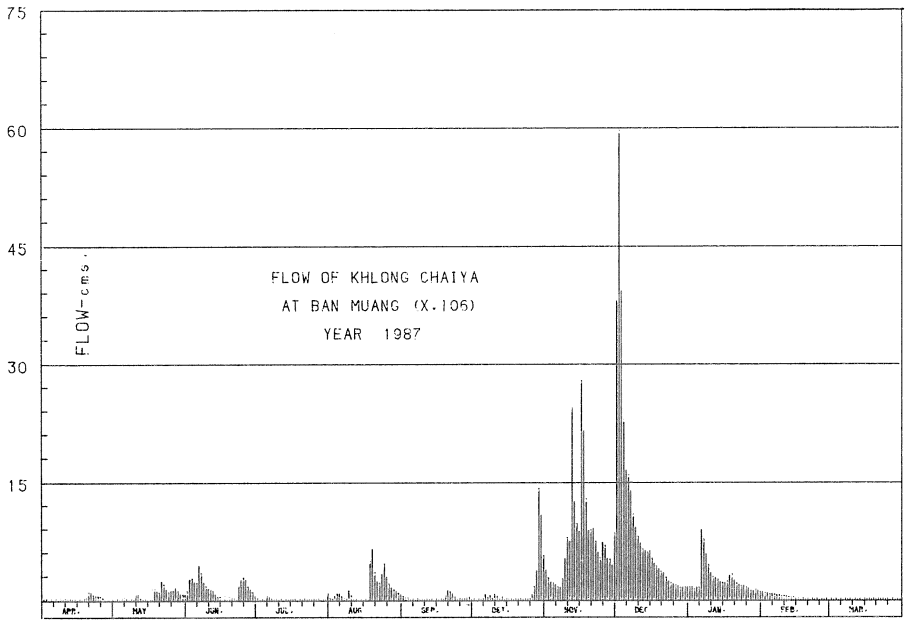
KHLONG CHAIYA AT BAN MUANG, SURAT THANI (X.106)

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	+7.063 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK INFRONT OF THE GAGE OBSERVER'S HOUSE.
ELEVATION	+10.248 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 59 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.06	7.06	7.29	7.08	7.10	7.14	7.06	7.71	9.62	7.40	7.25	7.06	
2	7.06	7.06	7.56	7.06	7.06	7.11	7.06	7.59	10.39	7.40	7.24	7.06	
3	7.06	7.06	7.58	7.06	7.15	7.09	7.06	7.50	9.67	7.35	7.22	7.06	
4	7.06	7.08	7.50	7.06	7.21	7.07	7.06	7.49	8.97	7.38	7.20	7.06	
5	7.06	7.11	7.49	7.16	7.21	7.06	7.06	7.45	8.65	7.39	7.20	7.06	
6	7.06	7.06	7.78	7.12	7.14	7.06	7.19	7.40	8.62	8.19	7.19	7.06	
7	7.06	7.06	7.67	7.06	7.09	7.06	7.11	7.38	8.50	8.09	7.17	7.06	
8	7.08	7.06	7.50	7.06	7.06	7.06	7.16	7.57	8.32	7.93	7.17	7.06	
9	7.07	7.06	7.42	7.06	7.30	7.06	7.07	7.87	8.21	7.79	7.14	7.06	
10	7.06	7.18	7.35	7.06	7.16	7.06	7.19	8.11	8.12	7.67	7.15	7.06	
11	7.06	7.18	7.32	7.06	7.06	7.06	7.14	8.07	8.05	7.61	7.14	7.06	
12	7.06	7.08	7.29	7.06	7.06	7.06	7.08	9.04	7.99	7.60	7.12	7.06	
13	7.06	7.06	7.19	7.06	7.06	7.06	7.12	8.42	7.97	7.56	7.12	7.06	
14	7.06	7.06	7.13	7.06	7.06	7.06	7.08	8.24	7.95	7.51	7.11	7.06	
15	7.06	7.06	7.13	7.06	7.06	7.06	7.08	8.17	7.97	7.49	7.11	7.06	
16	7.06	7.06	7.11	7.06	7.06	7.06	7.08	9.20	7.87	7.49	7.10	7.06	
17	7.06	7.06	7.14	7.06	7.06	7.06	7.06	8.90	7.81	7.52	7.08	7.06	
18	7.08	7.36	7.11	7.06	7.84	7.06	7.06	8.44	7.77	7.63	7.08	7.06	
19	7.09	7.28	7.12	7.06	7.99	7.16	7.06	8.18	7.73	7.65	7.08	7.06	
20	7.26	7.25	7.11	7.06	7.68	7.30	7.06	8.19	7.69	7.54	7.07	7.06	
21	7.24	7.52	7.07	7.06	7.52	7.27	7.06	8.20	7.67	7.48	7.07	7.06	
22	7.18	7.46	7.06	7.06	7.49	7.20	7.06	8.07	7.60	7.45	7.07	7.06	
23	7.16	7.33	7.47	7.06	7.65	7.12	7.06	7.95	7.52	7.42	7.07	7.06	
24	7.15	7.26	7.55	7.06	7.81	7.08	7.06	7.88	7.49	7.42	7.07	7.06	
25	7.14	7.29	7.60	7.06	7.61	7.08	7.06	8.06	7.46	7.40	7.06	7.06	
26	7.09	7.30	7.55	7.06	7.47	7.09	7.18	8.03	7.44	7.36	7.06	7.06	
27	7.06	7.37	7.41	7.06	7.38	7.07	7.41	7.87	7.42	7.29	7.06	7.06	
28	7.06	7.29	7.33	7.06	7.33	7.09	7.70	7.86	7.38	7.28	7.06	7.06	
29	7.06	7.19	7.26	7.06	7.28	7.11	8.52	7.78	7.38	7.32	7.06	7.06	
30	7.06	7.19	7.14	7.06	7.23	7.07	8.31	8.16	7.40	7.29		7.06	
31		7.18		7.22	7.18		7.91		7.39	7.26		7.06	
MEAN	7.09	7.18	7.34	7.07	7.30	7.10	7.23	8.03	8.07	7.52	7.12	7.06	
MAX	7.26	7.52	7.78	7.22	7.99	7.30	8.52	9.20	10.39	8.19	7.25	7.06	10.39
MIN	7.06	7.06	7.06	7.06	7.06	7.06	7.06	7.38	7.38	7.26	7.06	7.06	7.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.42 M (MSL), AT 9.00 HOURS, ON DEC 2, 1987
ZERO GAGE AT BOTTOM ELEVATION 7.06 M (MSL), RIVER BED 6.37 M (MSL)
LEFT BANK ELEVATION 10.68 M (MSL)
RIGHT BANK ELEVATION 10.82 M (MSL), DRAINAGE AREA 309 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.21	1.21	0.28	0.35	0.53	0.21	3.83	38.02	1.70	1.03	0.21	
2	0.21	0.21	2.66	0.21	0.21	0.40	0.21	2.84	59.70	1.70	0.98	0.21	
3	0.21	0.21	2.78	0.21	0.58	0.32	0.21	2.30	39.32	1.47	0.89	0.21	
4	0.21	0.28	2.30	0.21	0.85	0.25	0.21	2.24	22.97	1.61	0.80	0.21	
5	0.21	0.40	2.24	0.62	0.85	0.21	0.21	2.00	16.55	1.65	0.80	0.21	
6	0.21	0.21	4.43	0.44	0.53	0.21	0.76	1.70	15.98	8.97	0.76	0.21	
7	0.21	0.21	3.50	0.21	0.32	0.21	0.40	1.61	13.90	7.73	0.67	0.21	
8	0.28	0.21	2.30	0.21	0.21	0.21	0.62	2.72	10.96	5.90	0.67	0.21	
9	0.25	0.21	1.82	0.21	1.25	0.21	0.25	5.30	9.26	4.51	0.53	0.21	
10	0.21	0.71	1.47	0.21	0.62	0.21	0.76	7.97	8.10	3.50	0.58	0.21	
11	0.21	0.71	1.34	0.21	0.21	0.21	0.53	7.47	7.23	2.99	0.53	0.21	
12	0.21	0.28	1.21	0.21	0.21	0.21	0.28	24.46	6.50	2.90	0.44	0.21	
13	0.21	0.21	0.76	0.21	0.21	0.21	0.44	12.54	6.30	2.66	0.44	0.21	
14	0.21	0.21	0.49	0.21	0.21	0.21	0.28	9.72	6.10	2.36	0.40	0.21	
15	0.21	0.21	0.49	0.21	0.21	0.21	0.28	8.73	6.30	2.24	0.40	0.21	
16	0.21	0.21	0.40	0.21	0.21	0.21	0.28	27.90	5.30	2.24	0.35	0.21	
17	0.21	0.21	0.53	0.21	0.21	0.21	0.21	21.50	4.70	2.42	0.28	0.21	
18	0.28	1.52	0.40	0.21	5.00	0.21	0.21	12.88	4.34	3.16	0.28	0.21	
19	0.32	1.16	0.44	0.21	6.50	0.62	0.21	8.85	4.00	3.33	0.28	0.21	
20	1.07	1.03	0.40	0.21	3.58	1.25	0.21	8.97	3.67	2.54	0.25	0.21	
21	0.98	2.42	0.25	0.21	2.42	1.12	0.21	9.10	3.50	2.18	0.25	0.21	
22	0.71	2.06	0.21	0.21	2.24	0.80	0.21	7.47	2.90	2.00	0.25	0.21	
23	0.62	1.38	2.12	0.21	3.33	0.44	0.21	6.10	2.42	1.82	0.25	0.21	
24	0.58	1.07	2.60	0.21	4.70	0.28	0.21	5.40	2.24	1.82	0.25	0.21	
25	0.53	1.21	2.90	0.21	2.99	0.28	0.21	7.35	2.06	1.70	0.21	0.21	
26	0.32	1.25	2.60	0.21	2.12	0.32	0.71	6.97	1.94	1.52	0.21	0.21	
27	0.21	1.56	1.76	0.21	1.61	0.25	1.76	5.30	1.82	1.21	0.21	0.21	
28	0.21	1.21	1.38	0.21	1.38	0.32	3.75	5.20	1.61	1.16	0.21	0.21	
29	0.21	0.76	1.07	0.21	1.16	0.40	14.24	4.43	1.61	1.34	0.21	0.21	
30	0.21	0.76	0.53	0.21	0.94	0.25	10.81	8.60	1.70	1.21		0.21	
31		0.71		0.89	0.71		5.70		1.65	1.07		0.21	
TOTAL	9.93	23.00	46.59	7.90	45.92	10.77	44.79	241.45	312.65	82.61	13.41	6.51	845.53 CMSDAY
MEAN	0.33	0.74	1.55	0.25	1.48	0.36	1.44	8.05	10.09	2.66	0.46	0.21	2.31 CMS
MAX	1.07	2.42	4.43	0.89	6.50	1.25	14.24	27.90	59.70	8.97	1.03	0.21	59.70 CMS
MIN	0.21	0.21	0.21	0.21	0.21	0.21	0.21	1.61	1.61	1.07	0.21	0.21	0.21 CMS
RUNOFF	0.858	1.987	4.025	0.683	3.967	0.931	3.870	20.861	27.013	7.138	1.159	0.562	73.054 MCM

MOMENTARY PEAK 60.60 CMS, AT 10.42 M (MSL), AT 9.00 HOURS, ON DEC 2, 1987
RUNOFF YIELD 7.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 196.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

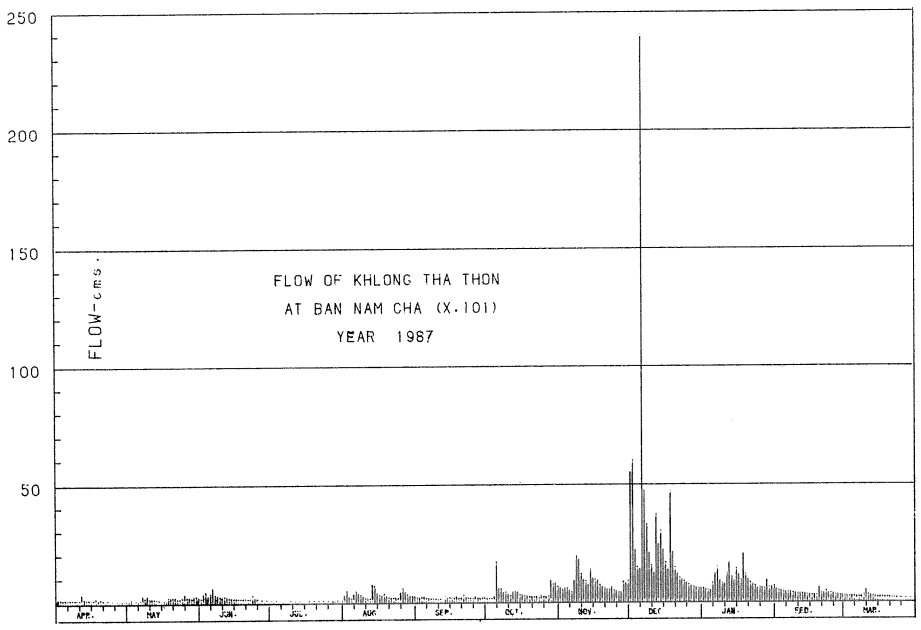
KHLONG THA THON AT BAN NAM CHA, NAKHON SI THAMMARAT (X.101)

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	+7.895 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 11 METERS NORTH FROM THE STATION OFFICE.
ELEVATION	+16.570 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	1976 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1976 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1976 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 124 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.64	8.58	8.67	8.60	8.75	8.68	8.64	8.94	10.43	8.93	8.90	8.71	
2	8.64	8.63	8.80	8.60	8.88	8.66	8.64	8.90	10.53	8.90	8.87	8.70	
3	8.63	8.60	8.86	8.60	8.70	8.69	8.64	8.93	9.61	8.88	8.86	8.70	
4	8.63	8.59	8.74	8.60	8.66	8.70	8.69	8.94	9.39	8.87	8.84	8.70	
5	8.63	8.59	8.82	8.60	8.78	8.66	9.46	8.87	9.35	9.07	8.83	8.69	
6	8.63	8.59	8.96	8.60	8.87	8.65	8.93	8.84	13.11	9.27	8.84	8.68	
7	8.63	8.75	8.79	8.59	8.80	8.64	8.93	9.13	10.27	9.39	8.83	8.68	
8	8.62	8.69	8.75	8.59	8.77	8.64	8.82	9.53	9.92	9.12	8.81	8.68	
9	8.62	8.74	8.72	8.59	8.71	8.63	8.84	9.49	9.57	9.06	8.79	8.74	
10	8.62	8.66	8.70	8.58	8.67	8.63	8.77	9.27	9.41	9.03	8.78	8.87	
11	8.79	8.66	8.73	8.58	8.65	8.63	8.74	9.15	9.28	9.28	8.78	8.75	
12	8.65	8.65	8.70	8.58	8.65	8.62	8.83	9.12	10.03	9.44	8.78	8.72	
13	8.63	8.63	8.68	8.57	9.04	8.72	8.85	9.02	9.68	9.21	8.77	8.70	
14	8.63	8.62	8.67	8.57	9.01	8.65	8.83	9.35	9.85	9.11	8.75	8.68	
15	8.62	8.60	8.66	8.57	8.82	8.68	8.77	9.19	9.61	9.36	8.74	8.67	
16	8.62	8.61	8.66	8.57	8.76	8.65	8.75	9.16	9.45	9.25	8.74	8.67	
17	8.67	8.60	8.65	8.57	8.73	8.66	8.73	9.14	9.34	9.14	8.73	8.67	
18	8.61	8.71	8.65	8.57	8.80	8.70	8.71	9.03	10.27	9.56	8.73	8.66	
19	8.65	8.68	8.65	8.57	8.72	8.66	8.70	8.96	9.58	9.26	8.94	8.66	
20	8.62	8.70	8.65	8.57	8.69	8.66	8.69	8.94	9.38	9.15	8.81	8.65	
21	8.62	8.70	8.64	8.57	8.67	8.75	8.69	8.90	9.27	9.08	8.79	8.65	
22	8.61	8.65	8.64	8.57	8.67	8.68	8.69	8.90	9.20	9.03	8.85	8.64	
23	8.61	8.66	8.76	8.57	8.67	8.66	8.67	8.96	9.15	9.00	8.79	8.63	
24	8.60	8.69	8.66	8.57	8.66	8.65	8.73	8.88	9.12	8.92	8.81	8.63	
25	8.60	8.79	8.65	8.57	8.83	8.64	8.70	8.85	9.07	8.96	8.77	8.63	
26	8.60	8.70	8.63	8.57	8.94	8.69	8.69	8.83	9.03	8.94	8.75	8.63	
27	8.59	8.70	8.62	8.68	8.84	8.66	8.71	8.82	8.99	8.93	8.74	8.62	
28	8.59	8.67	8.61	8.61	8.79	8.65	9.14	9.10	8.97	9.13	8.73	8.62	
29	8.59	8.72	8.61	8.59	8.73	8.66	9.04	9.06	8.94	8.96	8.72	8.62	
30	8.59	8.74	8.61	8.58	8.72	8.66	9.08	9.12	8.93	8.96		8.61	
31		8.69		8.59	8.71		8.99		8.93	8.99		8.61	
MEAN	8.63	8.66	8.70	8.59	8.76	8.66	8.81	9.04	9.60	9.10	8.80	8.67	
MAX	8.79	8.79	8.96	8.68	9.04	8.75	9.46	9.53	13.11	9.56	8.94	8.87	13.11
MIN	8.59	8.58	8.61	8.57	8.65	8.62	8.64	8.82	8.93	8.87	8.72	8.61	8.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.05 M (MSL), AT 12.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 7.90 M (MSL), RIVER BED 8.09 M (MSL)
LEFT BANK ELEVATION 15.22 M (MSL)
RIGHT BANK ELEVATION 16.66 M (MSL), DRAINAGE AREA 95 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.72	1.08	2.11	1.20	3.15	2.24	1.72	6.04	54.99	5.88	5.40	2.63	
2	1.72	1.59	3.80	1.20	5.08	1.98	1.72	5.40	60.29	5.40	4.92	2.50	
3	1.59	1.20	4.76	1.20	2.50	2.37	1.72	5.88	22.13	5.08	4.76	2.50	
4	1.59	1.14	3.02	1.20	1.98	2.50	2.37	6.04	14.96	4.92	4.44	2.50	
5	1.59	1.14	4.12	1.20	3.54	1.98	17.18	4.92	14.00	8.19	4.28	2.37	
6	1.59	1.14	6.36	1.20	4.92	1.85	5.88	4.44	240.64	12.08	4.44	2.24	
7	1.59	3.15	3.67	1.14	3.80	1.72	5.88	9.21	47.29	14.96	4.28	2.24	
8	1.46	2.37	3.15	1.14	3.41	1.72	4.12	19.49	32.96	9.04	3.96	2.24	
9	1.46	3.02	2.76	1.14	2.63	1.59	4.44	18.17	20.81	8.02	3.67	3.02	
10	1.46	1.98	2.50	1.08	2.11	1.59	3.41	12.08	15.53	7.51	3.54	4.92	
11	3.67	1.98	2.89	1.08	1.85	1.59	3.02	9.55	12.32	12.32	3.54	3.15	
12	1.85	1.85	2.50	1.08	1.85	1.46	4.28	9.04	37.20	16.52	3.54	2.76	
13	1.59	1.59	2.24	1.02	7.68	2.76	4.60	7.34	24.44	10.64	3.41	2.50	
14	1.59	1.46	2.11	1.02	7.17	1.85	4.28	14.00	30.30	8.87	3.15	2.24	
15	1.46	1.20	1.98	1.02	4.12	2.24	3.41	10.23	22.13	14.24	3.02	2.11	
16	1.46	1.33	1.98	1.02	3.28	1.85	3.15	9.72	16.85	11.60	3.02	2.11	
17	2.11	1.20	1.85	1.02	2.89	1.98	2.89	9.38	13.76	9.38	2.89	2.11	
18	1.33	2.63	1.85	1.02	3.80	2.50	2.63	7.51	47.29	20.48	2.89	1.98	
19	1.85	2.24	1.85	1.02	2.76	1.98	2.50	6.36	21.14	11.84	6.04	1.98	
20	1.46	2.50	1.85	1.02	2.37	1.98	2.37	6.04	14.72	9.55	3.96	1.85	
21	1.46	2.50	1.72	1.02	2.11	3.15	2.37	5.40	12.08	8.36	3.67	1.85	
22	1.33	1.85	1.72	1.02	2.11	2.24	2.37	5.40	10.40	7.51	4.60	1.72	
23	1.33	1.98	3.28	1.02	2.11	1.98	2.11	6.36	9.55	7.00	3.67	1.59	
24	1.20	2.37	1.98	1.02	1.98	1.85	2.89	5.08	9.04	5.72	3.96	1.59	
25	1.20	3.67	1.85	1.02	4.28	1.72	2.50	4.60	8.19	6.36	3.41	1.59	
26	1.20	2.50	1.59	1.02	6.04	2.37	2.37	4.28	7.51	6.04	3.15	1.59	
27	1.14	2.50	1.46	2.24	4.44	1.98	2.63	4.12	6.84	5.88	3.02	1.46	
28	1.14	2.11	1.33	1.33	3.67	1.85	9.38	8.70	6.52	9.21	2.89	1.46	
29	1.14	2.76	1.33	1.14	2.89	1.98	7.68	8.02	6.04	6.36	2.76	1.46	
30	1.14	3.02	1.33	1.08	2.76	1.98	8.36	9.04	5.88	6.36		1.33	
31		2.37		1.14	2.63		6.84		5.88	6.84		1.33	
TOTAL	46.42	63.42	74.94	35.07	105.91	60.83	131.07	241.84	851.68	282.16	110.28	66.92	2070.54 CMSDAY
MEAN	1.55	2.05	2.50	1.13	3.42	2.03	4.23	8.06	27.47	9.10	3.80	2.16	5.66 CMS
MAX	3.67	3.67	6.36	2.24	7.68	3.15	17.18	19.49	240.64	20.48	6.04	4.92	240.64 CMS
MIN	1.14	1.08	1.33	1.02	1.85	1.46	1.72	4.12	5.88	4.92	2.76	1.33	1.02 CMS
RUNOFF	4.011	5.479	6.475	3.030	9.151	5.256	11.324	20.895	73.585	24.379	9.528	5.782	178.895 MCM

MOMENTARY PEAK 449.00 CMS, AT 15.05 M (MSL), AT 12.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 59.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 4726.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +23.100 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 2.70 METERS FROM THE OBSERVER'S HOUSE.

ELEVATION — +28.385 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 — 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.

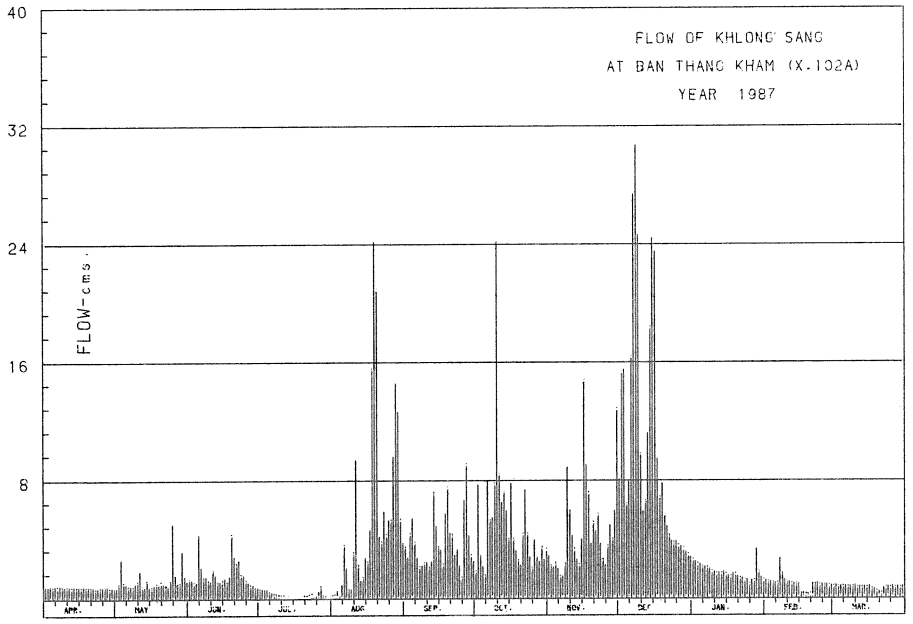
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +27.79 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 138 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.52	24.49	24.67	24.48	24.26	25.07	24.78	24.96	25.75	24.93	24.63	24.54	
2	24.52	24.58	24.63	24.46	24.29	24.94	25.70	24.85	26.61	24.90	24.62	24.54	
3	24.53	24.92	24.60	24.45	24.40	25.22	24.97	24.82	26.62	24.88	24.61	24.54	
4	24.53	24.60	24.59	24.44	24.20	25.37	24.83	24.89	25.52	24.86	24.60	24.53	
5	24.53	24.56	25.20	24.39	24.55	25.12	24.72	24.80	25.73	24.84	24.59	24.54	
6	24.54	24.54	24.82	24.35	25.09	24.94	25.74	24.71	26.72	24.83	24.60	24.53	
7	24.54	24.53	24.68	24.33	24.81	24.83	25.36	24.70	27.75	24.83	24.93	24.53	
8	24.53	24.53	24.69	24.32	24.47	24.84	25.38	24.88	28.06	24.80	24.74	24.53	
9	24.52	24.57	24.63	24.28	24.46	24.89	25.72	25.86	27.50	24.78	24.64	24.53	
10	24.53	24.62	24.61	24.26	25.01	24.89	27.46	25.45	25.98	24.76	24.62	24.54	
11	24.52	24.77	24.79	24.25	25.92	24.83	25.81	25.19	25.44	24.75	24.60	24.52	
12	24.52	24.55	24.71	24.23	24.86	24.90	25.53	25.05	25.55	24.75	24.59	24.52	
13	24.52	24.51	24.61	24.23	24.62	25.63	25.64	24.92	26.14	24.75	24.58	24.52	
14	24.52	24.64	24.60	24.21	24.69	25.29	25.45	24.87	26.92	24.76	24.58	24.52	
15	24.52	24.51	24.64	24.21	24.94	25.07	25.16	25.15	27.48	24.74	24.57	24.52	
16	24.52	24.53	24.66	24.22	24.90	25.03	25.71	26.55	27.42	24.71	24.32	24.53	
17	24.52	24.54	24.61	24.21	25.25	24.87	25.16	25.88	25.93	24.71	24.33	24.50	
18	24.52	24.58	24.70	24.20	26.63	25.42	25.02	25.63	25.59	24.74	24.31	24.46	
19	24.52	24.55	25.21	24.19	27.46	25.68	24.92	25.10	25.71	24.74	24.30	24.41	
20	24.52	24.62	24.95	24.25	27.17	25.22	24.85	25.34	25.42	24.70	24.33	24.36	
21	24.51	24.57	24.88	24.24	25.18	25.21	25.22	25.24	25.29	24.68	24.57	24.34	
22	24.49	24.55	24.91	24.30	25.13	24.97	25.65	25.42	25.20	24.67	24.57	24.48	
23	24.49	24.52	24.73	24.33	25.44	25.06	25.22	25.10	25.13	24.65	24.59	24.52	
24	24.51	24.63	24.71	24.23	25.21	24.84	24.95	24.93	25.12	24.65	24.56	24.52	
25	24.51	25.31	24.64	24.35	25.35	24.69	24.82	24.85	25.13	24.58	24.56	24.52	
26	24.53	24.71	24.59	24.38	25.36	25.55	25.14	25.08	25.09	24.63	24.56	24.53	
27	24.52	24.58	24.56	24.54	25.95	25.89	24.97	25.30	25.07	24.64	24.56	24.52	
28	24.50	24.59	24.55	24.26	26.54	25.19	24.90	25.16	25.06	25.04	24.55	24.52	
29	24.50	25.01	24.51	24.22	26.31	24.98	25.07	25.45	25.01	24.77	24.54	24.52	
30	24.49	24.69	24.50	24.22	25.37	24.90	24.92	26.34	24.99	24.68		24.53	
31		24.61		24.21	25.11		25.05		24.95	24.65		24.52	
MEAN	24.52	24.63	24.71	24.30	25.26	25.11	25.28	25.22	25.93	24.75	24.56	24.51	
MAX	24.54	25.31	25.21	24.54	27.46	25.89	27.46	26.55	28.06	25.04	24.93	24.54	28.06
MIN	24.49	24.49	24.50	24.19	24.20	24.69	24.72	24.70	24.95	24.58	24.30	24.34	24.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 28.08 M (MSL), AT 10.00 HOURS, ON DEC 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 23.10 M (MSL), RIVER BED 23.85 M (MSL)
LEFT BANK ELEVATION 27.81 M (MSL)
RIGHT BANK ELEVATION 27.78 M (MSL), DRAINAGE AREA 152 SQUARE KILOMETERS



DISCHARGE. IN CUBIC METER PER SECOND. WATER YEAR APRIL 1. 1987 TO MARCH 31. 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.78	0.68	1.38	0.66	0.24	3.52	1.90	2.86	8.05	2.68	1.22	0.86	
2	0.78	1.02	1.22	0.62	0.29	2.74	7.70	2.25	15.40	2.50	1.18	0.86	
3	0.82	2.62	1.10	0.60	0.50	4.43	2.92	2.10	15.49	2.40	1.14	0.86	
4	0.82	1.10	1.06	0.58	0.15	5.41	2.15	2.45	6.44	2.30	1.10	0.82	
5	0.82	0.94	4.30	0.48	0.90	3.82	1.60	2.00	7.91	2.20	1.06	0.86	
6	0.86	0.86	2.10	0.40	3.64	2.74	7.98	1.55	16.44	2.15	1.10	0.82	
7	0.86	0.82	1.42	0.36	2.05	2.15	5.34	1.50	27.35	2.15	2.68	0.82	
8	0.82	0.82	1.46	0.34	0.64	2.20	5.47	2.40	30.89	2.00	1.70	0.82	
9	0.78	0.98	1.22	0.27	0.62	2.45	7.84	8.88	24.60	1.90	1.26	0.82	
10	0.82	1.18	1.14	0.24	3.16	2.45	24.16	5.95	9.84	1.80	1.18	0.86	
11	0.78	1.85	1.95	0.23	9.36	2.15	8.48	4.24	5.88	1.75	1.10	0.78	
12	0.78	0.90	1.55	0.19	2.30	2.50	6.51	3.40	6.65	1.75	1.06	0.78	
13	0.78	0.74	1.14	0.19	1.18	7.21	7.28	2.62	11.19	1.75	1.02	0.78	
14	0.78	1.26	1.10	0.17	1.46	4.89	5.95	2.35	18.40	1.80	1.02	0.78	
15	0.78	0.74	1.26	0.17	2.74	3.52	4.06	4.00	24.38	1.70	0.98	0.78	
16	0.78	0.82	1.34	0.18	2.50	3.28	7.77	14.83	23.72	1.55	0.34	0.82	
17	0.78	0.86	1.14	0.17	4.62	2.35	4.06	9.04	9.44	1.55	0.36	0.70	
18	0.78	1.02	1.50	0.15	15.59	5.74	3.22	7.21	6.93	1.70	0.32	0.62	
19	0.78	0.90	4.37	0.14	24.16	7.56	2.62	3.70	7.77	1.70	0.30	0.52	
20	0.78	1.18	2.80	0.23	20.98	4.43	2.25	5.21	5.74	1.50	0.36	0.42	
21	0.74	0.98	2.40	0.21	4.18	4.37	4.43	4.56	4.89	1.42	0.98	0.38	
22	0.68	0.90	2.56	0.30	3.88	2.92	7.35	5.74	4.30	1.38	0.98	0.66	
23	0.68	0.78	1.65	0.36	5.88	3.46	4.43	3.70	3.88	1.30	1.06	0.78	
24	0.74	1.22	1.55	0.19	4.37	2.20	2.80	2.68	3.82	1.30	0.94	0.78	
25	0.74	5.02	1.26	0.40	5.28	1.46	2.10	2.25	3.88	1.02	0.94	0.78	
26	0.82	1.55	1.06	0.46	5.34	6.65	3.94	3.58	3.64	1.22	0.94	0.82	
27	0.78	1.02	0.94	0.86	9.60	9.12	2.92	4.95	3.52	1.26	0.94	0.78	
28	0.70	1.06	0.90	0.24	14.73	4.24	2.50	4.06	3.46	3.34	0.90	0.78	
29	0.70	3.16	0.74	0.18	12.64	2.98	3.52	5.95	3.16	1.85	0.86	0.78	
30	0.68	1.46	0.70	0.18	5.41	2.50	2.62	12.89	3.04	1.42		0.82	
31		1.14		0.17	3.76		3.40		2.80	1.30		0.78	
TOTAL	23.22	39.58	48.31	9.92	172.15	115.44	159.27	138.90	322.90	55.64	29.02	23.52	1137.87 CMSDAY
MEAN	0.77	1.28	1.61	0.32	5.55	3.85	5.14	4.63	10.42	1.79	1.00	0.76	3.11 CMS
MAX	0.86	5.02	4.37	0.86	24.16	9.12	24.16	14.83	30.89	3.34	2.68	0.86	30.89 CMS
MIN	0.68	0.68	0.70	0.14	0.15	1.46	1.60	1.50	2.80	1.02	0.30	0.38	0.14 CMS
RUNOFF	2.006	3.420	4.174	0.857	14.874	9.974	13.761	12.001	27.899	4.807	2.507	2.032	98.312 MCM

MOMENTARY PEAK 31.12 CMS, AT 28.08 M (MSL), AT 10.00 HOURS, ON DEC 8, 1987

RUNOFF YIELD 20.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 204.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

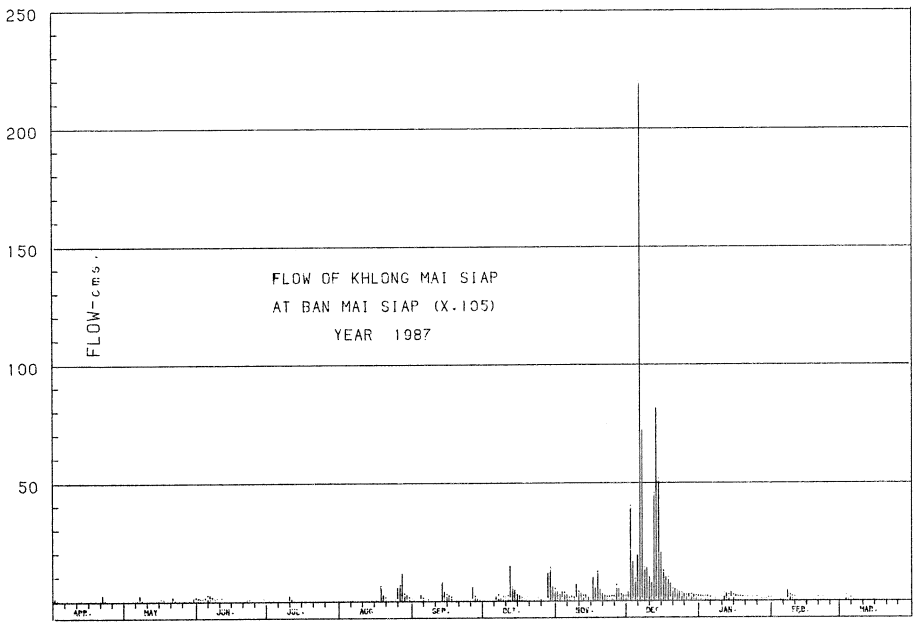
KHLONG MAI SIAP AT BAN MAI SIAP, NAKHON SI THAMMARAT (X.105)

LOCATION	LAT. 7°-51'-01" N., LONG. 99°-55'-53" E., ON LEFT BANK AT THE BRIDGE OF NAKHON SI THAMMARAT-PHATTHALUNG HIGHWAY, AT BAN MAI SIAP, AMPHOE CHA-UAT, NAKHON SI THAMMARAT.
DRAINAGE AREA	155 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+10.488 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE STATION OFFICE.
ELEVATION	+20.279 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	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 52 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.31	11.13	11.35	11.20	11.15	11.19	11.16	11.65	11.64	11.45	11.32	11.21	
2	11.17	11.14	11.34	11.25	11.14	11.18	11.17	11.52	13.61	11.42	11.33	11.28	
3	11.15	11.14	11.29	11.17	11.15	11.27	11.16	11.65	12.54	11.44	11.22	11.47	
4	11.15	11.14	11.38	11.15	11.15	11.51	11.15	11.64	12.10	11.45	11.33	11.39	
5	11.16	11.16	11.53	11.14	11.16	11.37	11.16	11.51	12.69	11.40	11.31	11.34	
6	11.15	11.18	11.51	11.16	11.17	11.30	11.40	11.38	16.70	11.32	11.21	11.33	
7	11.15	11.48	11.42	11.14	11.15	11.24	11.54	11.43	14.59	11.32	11.69	11.33	
8	11.14	11.18	11.35	11.13	11.14	11.18	11.32	11.38	12.41	11.30	11.53	11.32	
9	11.14	11.16	11.33	11.14	11.15	11.21	11.45	11.92	12.39	11.29	11.44	11.20	
10	11.15	11.15	11.34	11.47	11.14	11.19	11.38	11.68	12.14	11.37	11.41	11.19	
11	11.16	11.15	11.33	11.27	11.14	11.17	11.47	11.59	11.97	11.61	11.34	11.19	
12	11.15	11.15	11.27	11.26	11.14	11.16	12.44	11.49	13.79	11.57	11.30	11.18	
13	11.15	11.14	11.17	11.26	11.14	12.04	11.84	11.50	14.80	11.51	11.32	11.18	
14	11.14	11.14	11.16	11.26	11.14	11.66	11.71	11.35	13.99	11.62	11.32	11.18	
15	11.14	11.20	11.15	11.27	11.14	11.57	11.55	11.31	12.75	11.52	11.34	11.20	
16	11.14	11.27	11.14	11.15	11.14	11.50	11.46	12.23	12.33	11.47	11.35	11.19	
17	11.14	11.28	11.15	11.14	11.15	11.42	11.39	11.79	12.15	11.43	11.27	11.18	
18	11.14	11.25	11.15	11.14	11.88	11.25	11.35	12.30	12.15	11.42	11.35	11.18	
19	11.14	11.19	11.14	11.14	11.50	11.34	11.42	11.73	11.95	11.41	11.37	11.18	
20	11.14	11.15	11.15	11.16	11.40	11.20	11.34	11.56	11.78	11.39	11.36	11.18	
21	11.51	11.38	11.14	11.15	11.21	11.26	11.31	11.47	11.76	11.37	11.34	11.17	
22	11.19	11.18	11.23	11.13	11.30	11.32	11.20	11.43	11.69	11.37	11.34	11.17	
23	11.16	11.15	11.24	11.14	11.30	11.34	11.18	11.42	11.64	11.36	11.34	11.18	
24	11.15	11.14	11.24	11.14	11.25	11.25	11.34	11.45	11.61	11.37	11.33	11.18	
25	11.14	11.14	11.21	11.14	11.81	11.18	11.21	11.45	11.54	11.39	11.34	11.18	
26	11.15	11.14	11.19	11.14	11.91	11.83	11.19	11.92	11.51	11.37	11.30	11.18	
27	11.14	11.15	11.22	11.13	12.25	11.45	11.27	11.75	11.55	11.23	11.21	11.18	
28	11.14	11.14	11.26	11.15	11.61	11.31	12.25	11.56	11.55	11.26	11.19	11.17	
29	11.14	11.15	11.28	11.14	11.51	11.20	12.41	11.49	11.50	11.26	11.19	11.17	
30	11.14	11.33	11.17	11.13	11.40	11.17	11.84	11.47	11.49	11.33		11.17	
31		11.41		11.13	11.31		11.79		11.47	11.32		11.17	
MEAN	11.17	11.20	11.26	11.18	11.33	11.34	11.48	11.60	12.44	11.40	11.33	11.22	
MAX	11.51	11.48	11.53	11.47	12.25	12.04	12.44	12.30	16.70	11.62	11.69	11.47	16.70
MIN	11.14	11.13	11.14	11.13	11.14	11.16	11.15	11.31	11.47	11.23	11.19	11.17	11.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 18.12 M (MSL), AT 19.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 10.49 M (MSL), RIVER BED 10.31 M (MSL)
LEFT BANK ELEVATION 20.90 M (MSL)
RIGHT BANK ELEVATION 21.00 M (MSL), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.16	0.15	1.40	0.50	0.25	0.45	0.30	3.75	3.64	2.08	1.22	0.56	
2	0.35	0.20	1.34	0.80	0.20	0.40	0.35	2.60	40.30	1.85	1.28	0.98	
3	0.25	0.20	1.04	0.35	0.25	0.92	0.30	3.75	16.52	2.00	0.62	2.23	
4	0.25	0.20	1.58	0.25	0.25	2.53	0.25	3.64	9.30	2.08	1.28	1.64	
5	0.30	0.30	2.67	0.20	0.30	1.52	0.30	2.53	19.22	1.70	1.16	1.34	
6	0.25	0.40	2.53	0.30	0.35	1.10	1.70	1.58	220.00	1.22	0.56	1.28	
7	0.25	2.30	1.85	0.20	0.25	0.74	2.75	1.92	72.10	1.22	4.19	1.28	
8	0.20	0.40	1.40	0.15	0.20	0.40	1.22	1.58	14.18	1.10	2.67	1.22	
9	0.20	0.30	1.28	0.20	0.25	0.56	2.08	6.84	13.84	1.04	2.00	0.50	
10	0.25	0.25	1.34	2.23	0.20	0.45	1.58	4.08	9.90	1.52	1.78	0.45	
11	0.30	0.25	1.28	0.92	0.20	0.35	2.23	3.12	7.44	3.31	1.34	0.45	
12	0.25	0.25	0.92	0.86	0.20	0.30	14.72	2.37	45.70	2.97	1.10	0.40	
13	0.25	0.20	0.35	0.86	0.20	8.40	5.88	2.45	81.50	2.53	1.22	0.40	
14	0.20	0.20	0.30	0.86	0.20	3.86	4.41	1.40	51.70	3.42	1.22	0.40	
15	0.20	0.50	0.25	0.92	0.20	2.97	2.83	1.16	20.30	2.60	1.34	0.50	
16	0.20	0.92	0.20	0.25	0.20	2.45	2.15	11.28	12.88	2.23	1.40	0.45	
17	0.20	0.98	0.25	0.20	0.25	1.85	1.64	5.29	10.05	1.92	0.92	0.40	
18	0.20	0.80	0.25	0.20	6.36	0.80	1.40	12.40	10.05	1.85	1.40	0.40	
19	0.20	0.45	0.20	0.20	2.45	1.34	1.85	4.63	7.20	1.78	1.52	0.40	
20	0.20	0.25	0.25	0.30	1.70	0.50	1.34	2.90	5.18	1.64	1.46	0.40	
21	2.53	1.58	0.20	0.25	0.56	0.86	1.16	2.23	4.96	1.52	1.34	0.35	
22	0.45	0.40	0.68	0.15	1.10	1.22	0.50	1.92	4.19	1.52	1.34	0.35	
23	0.30	0.25	0.74	0.20	1.10	1.34	0.40	1.85	3.64	1.46	1.34	0.40	
24	0.25	0.20	0.74	0.20	0.80	0.80	1.34	2.08	3.31	1.52	1.28	0.40	
25	0.20	0.20	0.56	0.20	5.52	0.40	0.56	2.08	2.75	1.64	1.34	0.40	
26	0.25	0.20	0.45	0.20	6.72	5.76	0.45	6.84	2.53	1.52	1.10	0.40	
27	0.20	0.25	0.62	0.15	11.60	2.08	0.92	4.85	2.83	0.68	0.56	0.40	
28	0.20	0.20	0.86	0.25	3.31	1.16	11.60	2.90	2.83	0.86	0.45	0.35	
29	0.20	0.25	0.98	0.20	2.53	0.50	14.18	2.37	2.45	0.86	0.45	0.35	
30	0.20	1.28	0.35	0.15	1.70	0.35	5.88	2.23	2.37	1.28		0.35	
31		1.78		0.15	1.16		5.29		2.23	1.22		0.35	
TOTAL	10.44	16.09	26.86	12.85	50.56	46.36	91.56	108.62	705.09	54.14	38.88	19.78	1181.23 CMSDAY
MEAN	0.35	0.52	0.90	0.41	1.63	1.55	2.95	3.62	22.74	1.75	1.34	0.64	3.23 CMS
MAX	2.53	2.30	2.67	2.23	11.60	8.40	14.72	12.40	220.00	3.42	4.19	2.23	220.00 CMS
MIN	0.20	0.15	0.20	0.15	0.20	0.30	0.25	1.16	2.23	0.68	0.45	0.35	0.15 CMS
RUNOFF	0.902	1.390	2.321	1.110	4.368	4.006	7.911	9.385	60.920	4.678	3.359	1.709	102.058 MCM

MOMENTARY PEAK 400.80 CMS, AT 18.12 M (MSL), AT 19.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 20.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2585.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

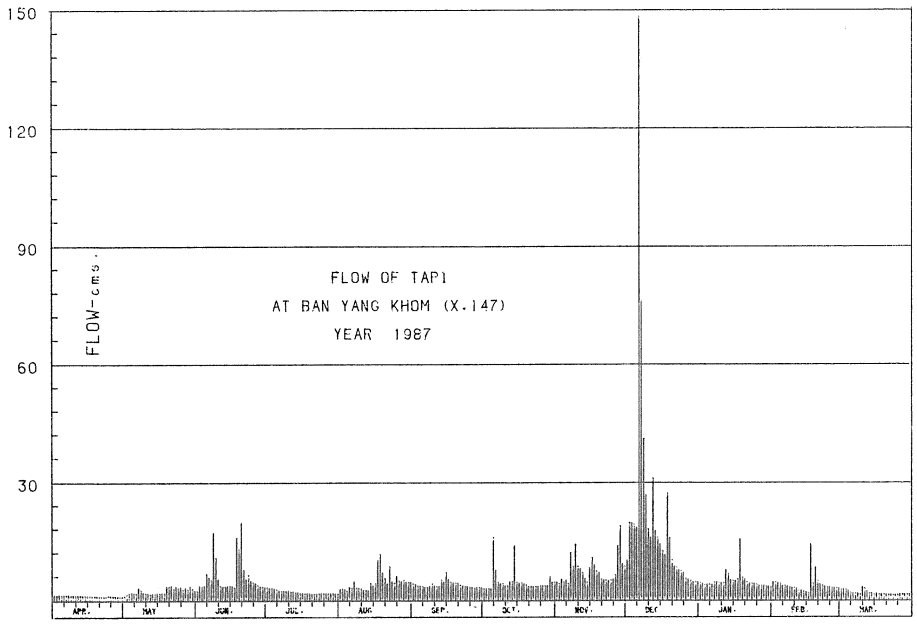
TAPI RIVER AT BAN YANG KHOM, NAKHON SI THAMMARAT (X.147)

LOCATION	LAT. 8-32-14 N., LONG. 99-37-12 E., ON RIGHT BANK UPSTREAM FROM THE BRIDGE OF CHANDI-PHIPUN HIGHWAY, AMPHOE PHIPUN, NAKHON SI THAMMARAT.
DRAINAGE AREA	69 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 ON RIGHT BANK NEAR THE GAGE SITE, B.M.2 AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	B.M.1=+3.350 M.(A.D.), B.M.2=+5.930 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1967 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.12	0.23	0.28	0.25	0.33	0.26	0.35	0.55	0.34	0.35	0.25	
2	0.15	0.17	0.30	0.27	0.26	0.32	0.26	0.33	0.79	0.33	0.35	0.25	
3	0.15	0.20	0.29	0.27	0.25	0.30	0.26	0.39	0.79	0.31	0.34	0.25	
4	0.15	0.21	0.30	0.26	0.23	0.30	0.26	0.35	0.78	0.32	0.33	0.23	
5	0.15	0.20	0.44	0.25	0.28	0.29	0.70	0.38	0.76	0.32	0.30	0.20	
6	0.15	0.20	0.41	0.23	0.27	0.28	0.47	0.33	2.36	0.31	0.30	0.19	
7	0.15	0.27	0.38	0.23	0.36	0.28	0.35	0.61	1.64	0.35	0.29	0.19	
8	0.14	0.25	0.73	0.23	0.27	0.29	0.33	0.50	1.19	0.35	0.28	0.18	
9	0.14	0.21	0.57	0.23	0.27	0.33	0.33	0.66	0.93	0.34	0.27	0.17	
10	0.14	0.20	0.39	0.23	0.26	0.30	0.30	0.50	0.75	0.34	0.27	0.28	
11	0.14	0.19	0.30	0.22	0.24	0.29	0.30	0.48	0.70	0.34	0.26	0.26	
12	0.14	0.17	0.29	0.22	0.24	0.29	0.35	0.45	1.01	0.47	0.23	0.22	
13	0.13	0.18	0.29	0.21	0.23	0.38	0.36	0.40	0.74	0.44	0.23	0.19	
14	0.13	0.18	0.30	0.21	0.34	0.35	0.65	0.35	0.70	0.38	0.22	0.19	
15	0.13	0.20	0.30	0.20	0.30	0.45	0.35	0.49	0.66	0.37	0.21	0.17	
16	0.13	0.20	0.30	0.20	0.33	0.39	0.34	0.57	0.62	0.37	0.20	0.17	
17	0.12	0.20	0.28	0.19	0.55	0.35	0.34	0.51	0.59	0.39	0.66	0.16	
18	0.12	0.20	0.70	0.19	0.60	0.34	0.33	0.46	0.94	0.69	0.33	0.16	
19	0.12	0.29	0.63	0.19	0.45	0.34	0.31	0.45	0.70	0.41	0.49	0.16	
20	0.12	0.29	0.79	0.18	0.40	0.34	0.29	0.39	0.55	0.39	0.37	0.15	
21	0.11	0.30	0.47	0.18	0.33	0.31	0.29	0.38	0.50	0.35	0.32	0.15	
22	0.11	0.26	0.39	0.18	0.50	0.30	0.29	0.38	0.49	0.33	0.30	0.15	
23	0.11	0.29	0.43	0.19	0.36	0.29	0.29	0.37	0.47	0.33	0.29	0.15	
24	0.13	0.27	0.37	0.19	0.34	0.29	0.29	0.38	0.46	0.33	0.28	0.15	
25	0.13	0.28	0.35	0.19	0.42	0.28	0.30	0.39	0.45	0.32	0.28	0.15	
26	0.12	0.25	0.34	0.19	0.37	0.28	0.30	0.43	0.40	0.30	0.27	0.16	
27	0.12	0.27	0.31	0.19	0.36	0.27	0.30	0.65	0.39	0.30	0.27	0.16	
28	0.11	0.25	0.29	0.19	0.38	0.28	0.30	0.77	0.37	0.30	0.27	0.16	
29	0.11	0.29	0.29	0.19	0.35	0.28	0.42	0.52	0.35	0.29	0.26	0.16	
30	0.11	0.26	0.28	0.18	0.35	0.27	0.35	0.50	0.35	0.29		0.16	
31		0.23		0.18	0.35		0.35		0.35	0.28		0.16	
MEAN	0.13	0.23	0.39	0.21	0.34	0.31	0.34	0.46	0.72	0.35	0.30	0.18	
MAX	0.15	0.30	0.79	0.28	0.60	0.45	0.70	0.77	2.36	0.69	0.66	0.28	2.36
MIN	0.11	0.12	0.23	0.18	0.23	0.27	0.26	0.33	0.35	0.28	0.20	0.15	0.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.00 M (A.D), AT 15.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.75 M (A.D)
LEFT BANK ELEVATION 4.63 M (A.D)
RIGHT BANK ELEVATION 3.54 M (A.D), DRAINAGE AREA 69 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.43	1.14	2.46	3.38	2.83	4.31	3.01	4.67	10.25	4.49	4.67	2.83	
2	1.43	1.62	3.75	3.20	3.01	4.12	3.01	4.31	19.78	4.31	4.67	2.83	
3	1.43	1.90	3.56	3.20	2.83	3.75	3.01	5.41	19.78	3.94	4.49	2.83	
4	1.43	2.08	3.75	3.01	2.46	3.75	3.01	4.67	19.36	4.12	4.31	2.46	
5	1.43	1.90	6.84	2.83	3.38	3.56	16.00	5.23	18.52	4.12	3.75	1.90	
6	1.43	1.90	5.91	2.46	3.20	3.38	7.77	4.31	148.40	3.94	3.75	1.80	
7	1.43	3.20	5.23	2.46	4.86	3.38	4.67	12.22	76.04	4.67	3.56	1.80	
8	1.33	2.83	17.26	2.46	3.20	3.56	4.31	8.70	41.99	4.67	3.38	1.71	
9	1.33	2.08	10.87	2.46	3.20	4.31	4.31	14.32	26.83	4.49	3.20	1.62	
10	1.33	1.90	5.41	2.46	3.01	3.75	3.75	8.70	18.10	4.49	3.20	3.38	
11	1.33	1.80	3.75	2.27	2.64	3.56	3.75	8.08	16.00	4.49	3.01	3.01	
12	1.33	1.62	3.56	2.27	2.64	3.56	4.67	7.15	31.01	7.77	2.46	2.27	
13	1.24	1.71	3.56	2.08	2.46	5.23	4.86	5.60	17.68	6.84	2.46	1.80	
14	1.24	1.71	3.75	2.08	4.49	4.67	13.90	4.67	16.00	5.23	2.27	1.80	
15	1.24	1.90	3.75	1.90	3.75	7.15	4.67	8.39	14.32	5.05	2.08	1.62	
16	1.24	1.90	3.75	1.90	4.31	5.41	4.49	10.87	12.64	5.05	1.90	1.62	
17	1.14	1.90	3.38	1.80	10.25	4.67	4.49	9.01	11.49	5.41	14.32	1.52	
18	1.14	1.90	16.00	1.80	11.80	4.49	4.31	7.46	27.34	15.58	4.31	1.52	
19	1.14	3.56	13.06	1.80	7.15	4.49	3.94	7.15	16.00	5.91	8.39	1.52	
20	1.14	3.56	19.78	1.71	5.60	4.49	3.56	5.41	10.25	5.41	5.05	1.43	
21	1.04	3.75	7.77	1.71	4.31	3.94	3.56	5.23	8.70	4.67	4.12	1.43	
22	1.04	3.01	5.41	1.71	8.70	3.75	3.56	5.23	8.39	4.31	3.75	1.43	
23	1.04	3.56	6.53	1.80	4.86	3.56	3.56	5.05	7.77	4.31	3.56	1.43	
24	1.24	3.20	5.05	1.80	4.49	3.56	3.56	5.23	7.46	4.31	3.38	1.43	
25	1.24	3.38	4.67	1.80	6.22	3.38	3.75	5.41	7.15	4.12	3.38	1.43	
26	1.14	2.83	4.49	1.80	5.05	3.38	3.75	6.53	5.60	3.75	3.20	1.52	
27	1.14	3.20	3.94	1.80	4.86	3.20	3.75	13.90	5.41	3.75	3.20	1.52	
28	1.04	2.83	3.56	1.80	5.23	3.38	3.75	18.94	5.05	3.75	3.20	1.52	
29	1.04	3.56	3.56	1.80	4.67	3.38	6.22	9.32	4.67	3.56	3.01	1.52	
30	1.04	3.01	3.38	1.71	4.67	3.20	4.67	8.70	4.67	3.56		1.52	
31		2.46		1.71	4.67		4.67		4.67	3.38		1.52	
TOTAL	37.18	76.90	187.74	66.97	144.80	120.32	150.29	229.87	641.32	153.45	116.03	57.54	1982.41 CMSDAY
MEAN	1.24	2.48	6.26	2.16	4.67	4.01	4.85	7.66	20.69	4.95	4.00	1.86	5.42 CMS
MAX	1.43	3.75	19.78	3.38	11.80	7.15	16.00	18.94	148.40	15.58	14.32	3.38	148.40 CMS
MIN	1.04	1.14	2.46	1.71	2.46	3.20	3.01	4.31	4.67	3.38	1.90	1.43	1.04 CMS
RUNOFF	3.212	6.644	16.221	5.786	12.511	10.396	12.985	19.861	55.410	13.258	10.025	4.971	171.280 MCM

MOMENTARY PEAK 227.00 CMS, AT 3.00 M (A.D), AT 15.00 HOURS, ON DEC 6, 1987

RUNOFF YIELD 78.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 3289.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

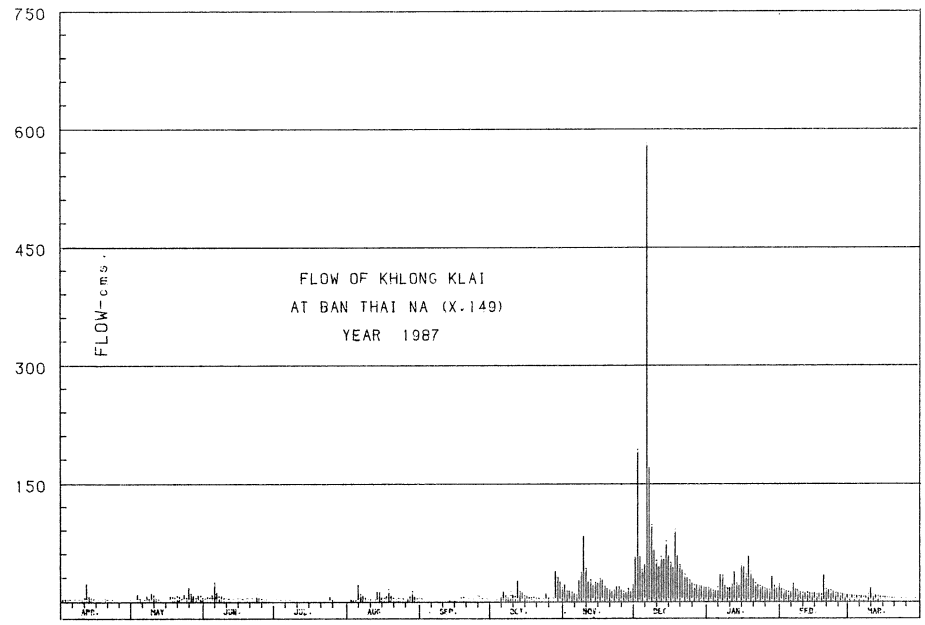
KHLONG KLAI AT BAN THAI NA, NAKHON SI THAMMARAT (X.149)

LOCATION	LAT. 8°-43'-48" N., LONG. 99°-44'-52" E., ON LEFT BANK AT BAN THAI NA, AMPHOE THA SA LA, NAKHON SI THAMMARAT.
DRAINAGE AREA	469 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+28.30 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE STATION OFFICE.
ELEVATION	+34.588 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	1984 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 153 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	28.73	28.70	28.78	28.73	28.70	28.77	28.72	29.10	29.54	29.04	29.02	28.86	
2	28.73	28.76	28.83	28.72	28.84	28.75	28.72	28.97	30.39	29.01	29.00	28.86	
3	28.73	28.88	28.81	28.71	28.72	28.74	28.72	28.97	29.55	28.99	28.97	28.85	
4	28.73	28.77	28.87	28.71	28.69	28.75	28.71	28.95	29.37	28.97	28.96	28.85	
5	28.72	28.72	29.15	28.71	29.10	28.74	28.89	28.90	29.44	29.06	28.94	28.84	
6	28.72	28.72	28.93	28.71	28.90	28.73	28.95	28.87	31.79	29.28	29.12	28.84	
7	28.72	28.84	28.85	28.70	28.85	28.72	28.86	29.18	30.27	29.27	29.01	28.83	
8	28.72	28.76	28.84	28.70	28.80	28.73	28.79	29.32	29.84	29.08	28.97	28.83	
9	28.72	28.91	28.80	28.69	28.75	28.75	28.86	29.74	29.62	29.03	28.95	28.90	
10	28.78	28.87	28.79	28.69	28.74	28.71	28.87	29.39	29.50	29.04	28.93	29.03	
11	29.12	28.77	28.77	28.69	28.73	28.71	28.84	29.15	29.41	29.11	28.92	28.89	
12	28.83	28.74	28.76	28.69	28.72	28.70	29.18	29.20	29.55	29.33	28.94	28.86	
13	28.78	28.73	28.75	28.69	28.95	28.80	28.97	29.08	29.51	29.13	28.92	28.85	
14	28.75	28.72	28.76	28.69	28.94	28.74	28.93	29.15	29.70	29.08	28.91	28.83	
15	28.74	28.71	28.78	28.68	28.80	28.81	28.86	29.13	29.56	29.45	28.91	28.82	
16	28.74	28.73	28.79	28.67	28.80	28.75	28.84	29.22	29.47	29.41	28.89	28.82	
17	28.73	28.83	28.75	28.67	28.84	28.75	28.81	29.19	29.40	29.29	28.90	28.81	
18	28.74	28.83	28.78	28.66	29.02	28.81	28.81	29.07	29.80	29.55	28.89	28.80	
19	28.77	28.81	28.79	28.69	28.85	28.82	28.82	29.02	29.56	29.34	29.27	28.79	
20	28.73	28.85	28.78	28.69	28.80	28.77	28.79	29.00	29.44	29.21	29.02	28.79	
21	28.73	28.83	28.78	28.69	28.77	28.76	28.78	28.95	29.36	29.13	28.99	28.79	
22	28.72	28.77	28.77	28.68	28.79	28.75	28.77	28.99	29.29	29.10	29.00	28.78	
23	28.71	28.88	28.91	28.68	28.79	28.75	28.76	29.06	29.23	29.08	28.96	28.78	
24	28.71	28.81	28.79	28.82	28.77	28.73	28.90	29.06	29.19	29.06	28.93	28.77	
25	28.70	29.04	28.76	28.71	28.75	28.73	28.79	28.99	29.13	29.03	28.92	28.76	
26	28.71	28.91	28.75	28.69	28.86	28.78	28.77	28.97	29.10	29.01	28.91	28.75	
27	28.70	28.85	28.74	28.70	28.83	28.77	28.79	28.92	29.09	29.01	28.89	28.79	
28	28.70	28.80	28.74	28.69	28.98	28.76	29.34	29.03	29.08	29.25	28.88	28.78	
29	28.71	28.86	28.73	28.67	28.82	28.75	29.24	28.94	29.07	29.08	28.87	28.77	
30	28.71	28.86	28.74	28.67	28.78	28.73	29.15	29.10	29.05	29.02		28.77	
31		28.80		28.68	28.79		29.05		29.04	29.12		28.77	
MEAN	28.74	28.81	28.80	28.70	28.82	28.75	28.88	29.09	29.53	29.15	28.96	28.82	
MAX	29.12	29.04	29.15	28.82	29.10	28.82	29.34	29.74	31.79	29.55	29.27	29.03	31.79
MIN	28.70	28.70	28.73	28.66	28.69	28.70	28.71	28.87	29.04	28.97	28.87	28.75	28.66

ANNUAL MAX MOMENTARY GAGE HEIGHT 32.95 M (MSL), AT 13.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 28.30 M (MSL), RIVER BED 27.98 M (MSL)
LEFT BANK ELEVATION 35.14 M (MSL)
RIGHT BANK ELEVATION 34.40 M (MSL), DRAINAGE AREA 469 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.04	2.20	4.44	3.04	2.20	4.16	2.76	21.50	56.30	17.60	16.30	8.00	
2	3.04	3.88	6.50	2.76	7.00	3.60	2.76	13.50	193.10	15.65	15.00	8.00	
3	3.04	9.00	5.50	2.48	2.76	3.32	2.76	13.50	57.25	14.50	13.50	7.50	
4	3.04	4.16	8.50	2.48	1.98	3.60	2.48	12.50	40.75	13.50	13.00	7.50	
5	2.76	2.76	24.75	2.48	21.50	3.32	9.50	10.00	46.80	18.90	12.00	7.00	
6	2.76	2.76	11.50	2.48	10.00	3.04	12.50	8.50	582.45	34.00	22.80	7.00	
7	2.76	7.00	7.50	2.20	7.50	2.76	8.00	26.70	170.30	33.25	15.65	6.50	
8	2.76	3.88	7.00	2.20	5.00	3.04	4.72	37.00	98.00	20.20	13.50	6.50	
9	2.76	10.50	5.00	1.98	3.60	3.60	8.00	83.00	65.00	16.95	12.50	10.00	
10	4.44	8.50	4.72	1.98	3.32	2.48	8.50	42.25	52.50	17.60	11.50	16.95	
11	22.80	4.16	4.16	1.98	3.04	2.48	7.00	24.75	43.95	22.15	11.00	9.50	
12	6.50	3.32	3.88	1.98	2.76	2.20	26.70	28.00	57.25	37.75	12.00	8.00	
13	4.44	3.04	3.60	1.98	12.50	5.00	13.50	20.20	53.45	23.45	11.00	7.50	
14	3.60	2.76	3.88	1.98	12.00	3.32	11.50	24.75	77.00	20.20	10.50	6.50	
15	3.32	2.48	4.44	1.76	5.00	5.50	8.00	23.45	58.20	47.75	10.50	6.00	
16	3.32	3.04	4.72	1.54	5.00	3.60	7.00	29.50	49.65	43.95	9.50	6.00	
17	3.04	6.50	3.60	1.54	7.00	3.60	5.50	27.35	43.00	34.75	10.00	5.50	
18	3.32	6.50	4.44	1.32	16.30	5.50	5.50	19.55	92.00	57.25	9.50	5.00	
19	4.16	5.50	4.72	1.98	7.50	6.00	6.00	16.30	58.20	38.50	33.25	4.72	
20	3.04	7.50	4.44	1.98	5.00	4.16	4.72	15.00	46.80	28.75	16.30	4.72	
21	3.04	6.50	4.44	1.98	4.16	3.88	4.44	12.50	40.00	23.45	14.50	4.72	
22	2.76	4.16	4.16	1.76	4.72	3.60	4.16	14.50	34.75	21.50	15.00	4.44	
23	2.48	9.00	10.50	1.76	4.72	3.60	3.88	18.90	30.25	20.20	13.00	4.44	
24	2.48	5.50	4.72	6.00	4.16	3.04	10.00	18.90	27.35	18.90	11.50	4.16	
25	2.20	17.60	3.88	2.48	3.60	3.04	4.72	14.50	23.45	16.95	11.00	3.88	
26	2.48	10.50	3.60	1.98	8.00	4.44	4.16	13.50	21.50	15.65	10.50	3.60	
27	2.20	7.50	3.32	2.20	6.50	4.16	4.72	11.00	20.85	15.65	9.50	4.72	
28	2.20	5.00	3.32	1.98	14.00	3.88	38.50	16.95	20.20	31.75	9.00	4.44	
29	2.48	8.00	3.04	1.54	6.00	3.60	31.00	12.00	19.55	20.20	8.50	4.16	
30	2.48	8.00	3.32	1.54	4.44	3.04	24.75	21.50	18.25	16.30		4.16	
31		5.00		1.76	4.72		18.25		17.60	22.80		4.16	
TOTAL	112.74	186.20	171.59	67.10	205.98	110.56	305.98	651.55	2215.70	780.00	381.80	195.27	5384.47 CMSDAY
MEAN	3.76	6.01	5.72	2.16	6.64	3.69	9.87	21.72	71.47	25.16	13.17	6.30	14.71 CMS
MAX	22.80	17.60	24.75	6.00	21.50	6.00	38.50	83.00	582.45	57.25	33.25	16.95	582.45 CMS
MIN	2.20	2.20	3.04	1.32	1.98	2.20	2.48	8.50	17.60	13.50	8.50	3.60	1.32 CMS
RUNOFF	9.741	16.088	14.825	5.797	17.797	9.552	26.437	56.294	191.437	67.392	32.988	16.871	465.218 MCM

MOMENTARY PEAK 1062.50 CMS, AT 32.95 M (MSL), AT 13.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 31.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2265.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG CHANDI AT BAN CHANDI NUA, NAKHON SI THAMMARAT (X.163)

LOCATION — LAT. 8°-20'-34" N., LONG. 99°-37'-12" E., ON LEFT BANK AT THE BRIDGE ON ROAD NEAR WAT MANAO WAN, AMPHOE CHAWANG, NAKHON SI THAMMARAT.

DRAINAGE AREA — 97 SQ.K.M.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 3 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +5.324 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 — 1986 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1987 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1987 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

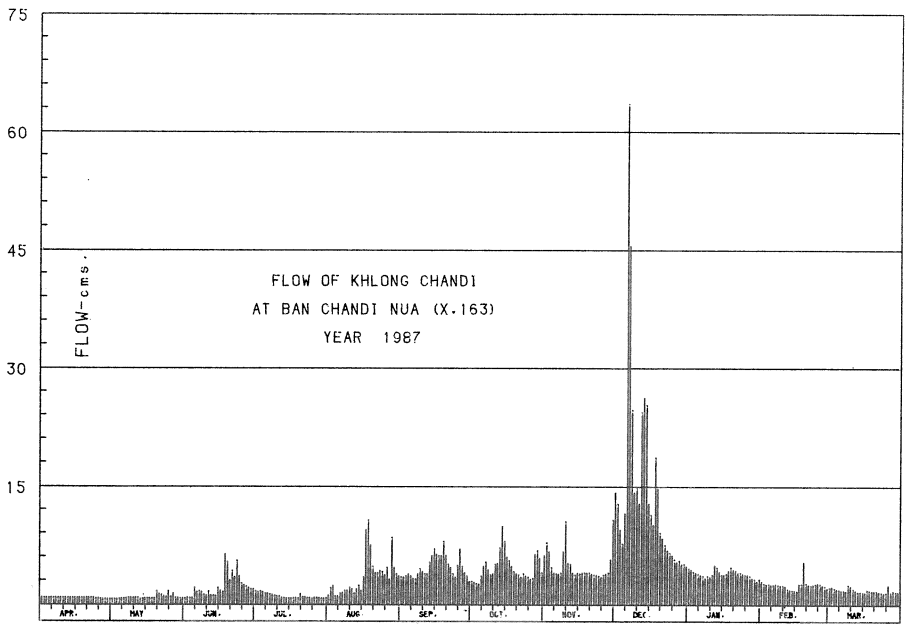
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.16	0.18	0.29	0.23	0.46	0.42	0.65	1.06	0.54	0.42	0.34	
2	0.20	0.16	0.20	0.28	0.34	0.46	0.41	0.75	1.00	0.53	0.40	0.35	
3	0.20	0.16	0.19	0.29	0.37	0.47	0.40	0.68	0.84	0.51	0.39	0.33	
4	0.20	0.16	0.19	0.28	0.22	0.49	0.39	0.55	0.74	0.50	0.39	0.32	
5	0.20	0.17	0.34	0.26	0.22	0.47	0.47	0.50	0.94	0.49	0.38	0.31	
6	0.20	0.18	0.28	0.26	0.26	0.45	0.56	0.49	2.50	0.48	0.38	0.30	
7	0.20	0.18	0.29	0.25	0.27	0.44	0.60	0.49	2.07	0.47	0.39	0.30	
8	0.20	0.20	0.28	0.24	0.30	0.49	0.53	0.50	1.46	0.45	0.38	0.29	
9	0.20	0.20	0.24	0.23	0.30	0.54	0.48	0.68	1.06	0.47	0.37	0.38	
10	0.20	0.20	0.23	0.22	0.34	0.51	0.49	0.89	1.09	0.46	0.37	0.36	
11	0.20	0.20	0.29	0.22	0.32	0.49	0.58	0.59	1.00	0.48	0.36	0.32	
12	0.20	0.20	0.23	0.19	0.26	0.49	0.59	0.58	1.45	0.57	0.32	0.30	
13	0.20	0.16	0.23	0.19	0.32	0.60	0.71	0.50	1.51	0.55	0.31	0.28	
14	0.20	0.17	0.22	0.18	0.37	0.65	0.86	0.48	1.48	0.51	0.30	0.28	
15	0.20	0.18	0.34	0.18	0.30	0.70	0.76	0.50	1.00	0.48	0.30	0.27	
16	0.20	0.18	0.30	0.18	0.46	0.66	0.64	0.49	0.93	0.48	0.29	0.27	
17	0.20	0.18	0.28	0.19	0.84	0.65	0.61	0.50	0.87	0.49	0.39	0.31	
18	0.20	0.18	0.66	0.19	0.90	0.65	0.56	0.50	1.24	0.52	0.39	0.30	
19	0.20	0.18	0.60	0.18	0.73	0.76	0.51	0.50	1.08	0.55	0.60	0.29	
20	0.20	0.29	0.43	0.25	0.56	0.65	0.49	0.50	0.82	0.53	0.40	0.29	
21	0.20	0.25	0.52	0.21	0.50	0.58	0.48	0.49	0.78	0.52	0.38	0.29	
22	0.20	0.24	0.46	0.21	0.50	0.55	0.46	0.48	0.73	0.50	0.37	0.28	
23	0.20	0.22	0.61	0.20	0.52	0.49	0.49	0.48	0.69	0.50	0.38	0.27	
24	0.18	0.21	0.47	0.19	0.51	0.46	0.47	0.47	0.67	0.49	0.39	0.26	
25	0.18	0.29	0.40	0.17	0.48	0.57	0.46	0.46	0.65	0.48	0.40	0.27	
26	0.17	0.21	0.38	0.20	0.55	0.70	0.44	0.48	0.62	0.48	0.39	0.37	
27	0.16	0.26	0.36	0.20	0.44	0.56	0.45	0.49	0.60	0.47	0.37	0.27	
28	0.16	0.20	0.34	0.19	0.79	0.50	0.66	0.50	0.61	0.45	0.36	0.29	
29	0.16	0.19	0.32	0.18	0.55	0.47	0.69	0.62	0.58	0.44	0.33	0.28	
30	0.16	0.18	0.32	0.18	0.49	0.42	0.63	0.90	0.58	0.42		0.28	
31		0.18		0.19	0.47		0.50		0.56	0.44		0.27	
MEAN	0.19	0.20	0.34	0.22	0.44	0.55	0.54	0.56	1.01	0.49	0.38	0.30	
MAX	0.20	0.29	0.66	0.29	0.90	0.76	0.86	0.90	2.50	0.57	0.60	0.38	2.50
MIN	0.16	0.16	0.18	0.17	0.22	0.42	0.39	0.46	0.56	0.42	0.29	0.26	0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.90 M (A.D), AT 15.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.05 M (A.D)
LEFT BANK ELEVATION 5.75 M (A.D)
RIGHT BANK ELEVATION 5.14 M (A.D), DRAINAGE AREA 97 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.90	0.72	0.81	1.71	1.17	3.51	2.97	6.22	14.24	4.59	2.97	2.16	
2	0.90	0.72	0.90	1.62	2.16	3.51	2.83	7.88	12.80	4.45	2.70	2.25	
3	0.90	0.72	0.86	1.71	2.43	3.65	2.70	6.72	9.52	4.19	2.61	2.07	
4	0.90	0.72	0.86	1.62	1.08	3.92	2.61	4.73	7.71	4.05	2.61	1.98	
5	0.90	0.77	2.16	1.44	1.08	3.65	3.65	4.05	11.57	3.92	2.52	1.89	
6	0.90	0.81	1.62	1.44	1.44	3.37	4.86	3.92	63.60	3.78	2.52	1.80	
7	0.90	0.81	1.71	1.35	1.53	3.24	5.40	3.92	45.56	3.65	2.61	1.80	
8	0.90	0.90	1.62	1.26	1.80	3.92	4.45	4.05	24.73	3.37	2.52	1.71	
9	0.90	0.90	1.26	1.17	1.80	4.59	3.78	6.72	14.24	3.65	2.43	2.52	
10	0.90	0.90	1.17	1.08	2.16	4.19	3.92	10.55	14.96	3.51	2.43	2.34	
11	0.90	0.90	1.71	1.08	1.98	3.92	5.13	5.26	12.80	3.78	2.34	1.98	
12	0.90	0.90	1.17	0.86	1.44	3.92	5.26	5.13	24.43	5.00	1.98	1.80	
13	0.90	0.72	1.17	0.86	1.98	5.40	7.21	4.05	26.25	4.73	1.89	1.62	
14	0.90	0.77	1.08	0.81	2.43	6.22	9.93	3.78	25.34	4.19	1.80	1.62	
15	0.90	0.81	2.16	0.81	1.80	7.05	8.04	4.05	12.80	3.78	1.80	1.53	
16	0.90	0.81	1.80	0.81	3.51	6.39	6.06	3.92	11.37	3.78	1.71	1.53	
17	0.90	0.81	1.62	0.86	9.52	6.22	5.57	4.05	10.14	3.92	2.61	1.89	
18	0.90	0.81	6.39	0.86	10.75	6.22	4.86	4.05	18.66	4.32	2.61	1.80	
19	0.90	0.81	5.40	0.81	7.55	8.04	4.19	4.05	14.72	4.73	5.40	1.71	
20	0.90	1.71	3.11	1.35	4.86	6.22	3.92	4.05	9.11	4.45	2.70	1.71	
21	0.90	1.35	4.32	0.99	4.05	5.13	3.78	3.92	8.37	4.32	2.52	1.71	
22	0.90	1.26	3.51	0.99	4.05	4.73	3.51	3.78	7.55	4.05	2.43	1.62	
23	0.90	1.08	5.57	0.90	4.32	3.92	3.92	3.78	6.88	4.05	2.52	1.53	
24	0.81	0.99	3.65	0.86	4.19	3.51	3.65	3.65	6.55	3.92	2.61	1.44	
25	0.81	1.71	2.70	0.77	3.78	5.00	3.51	3.51	6.22	3.78	2.70	1.53	
26	0.77	0.99	2.52	0.90	4.73	7.05	3.24	3.78	5.73	3.78	2.61	2.43	
27	0.72	1.44	2.34	0.90	3.24	4.86	3.37	3.92	5.40	3.65	2.43	1.53	
28	0.72	0.90	2.16	0.86	8.53	4.05	6.39	4.05	5.57	3.37	2.34	1.71	
29	0.72	0.86	1.98	0.81	4.73	3.65	6.88	5.73	5.13	3.24	2.07	1.62	
30	0.72	0.81	1.98	0.81	3.92	2.97	5.89	10.75	5.13	2.97		1.62	
31		0.81		0.86	3.65		4.05		4.86	3.24		1.53	
TOTAL	25.97	29.22	69.31	33.16	111.66	142.02	145.53	148.02	451.94	122.21	72.99	55.98	1408.01 CMSDAY
MEAN	0.87	0.94	2.31	1.07	3.60	4.73	4.69	4.93	14.58	3.94	2.52	1.81	3.85 CMS
MAX	0.90	1.71	6.39	1.71	10.75	8.04	9.93	10.75	63.60	5.00	5.40	2.52	63.60 CMS
MIN	0.72	0.72	0.81	0.77	1.08	2.97	2.61	3.51	4.86	2.97	1.71	1.44	0.72 CMS
RUNOFF	2.244	2.525	5.988	2.865	9.647	12.271	12.574	12.789	39.048	10.559	6.306	4.837	121.652 MCM

MOMENTARY PEAK 82.05 CMS, AT 2.90 M (A.D), AT 15.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 39.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 845.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

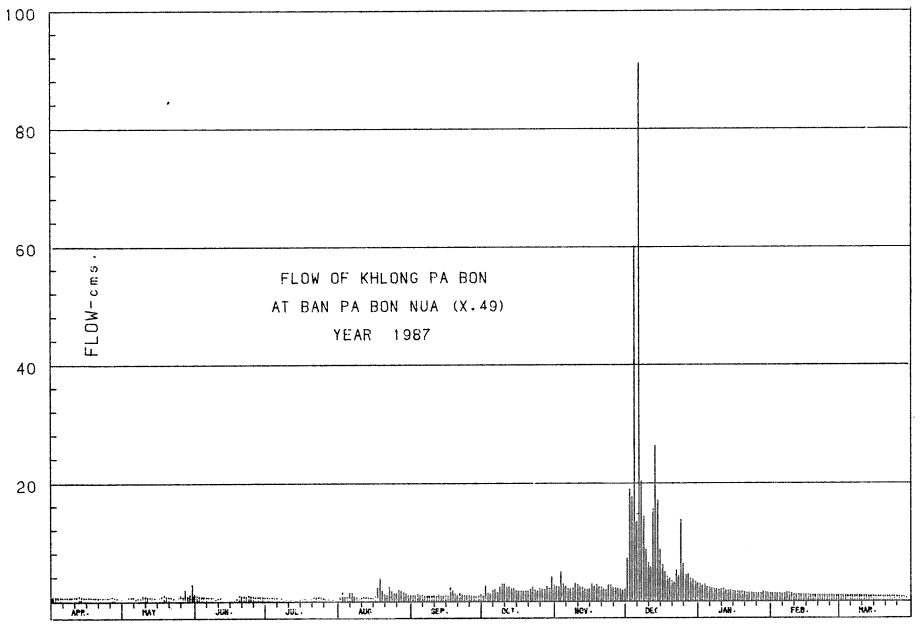
KHLONG PA BON AT BAN PA BON NUA, PHATTHALUNG (X.49)

LOCATION	LAT. 7°-16'-35" N., LONG. 100°-10'-01" E., ON RIGHT BANK UPSTREAM SIDE OF THE BRIDGE ON HIGHWAY AT BAN PA BON NUA, AMPHOE PAK PHAYUN, PHATTHALUNG.
DRAINAGE AREA	FLOOD PLAIN.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+21.90 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+25.454 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	1967-1970, 1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1968, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1968, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	22.66	22.57	22.69	22.64	22.63	22.70	22.68	22.85	23.15	22.89	22.73	22.69	
2	22.65	22.60	22.68	22.63	22.75	22.69	22.86	22.84	23.58	22.86	22.73	22.69	
3	22.65	22.64	22.66	22.63	22.65	22.72	22.74	23.03	23.54	22.88	22.73	22.68	
4	22.65	22.64	22.66	22.63	22.64	22.70	22.72	22.89	24.43	22.84	22.73	22.68	
5	22.64	22.65	22.65	22.62	22.74	22.71	22.78	22.85	23.40	22.83	22.72	22.68	
6	22.64	22.59	22.64	22.61	22.74	22.68	22.80	22.81	24.91	22.81	22.73	22.68	
7	22.64	22.62	22.63	22.60	22.67	22.68	22.75	22.81	23.62	22.81	22.75	22.68	
8	22.64	22.60	22.62	22.58	22.64	22.68	22.84	22.82	23.43	22.80	22.74	22.69	
9	22.64	22.69	22.57	22.57	22.60	22.68	22.89	22.90	23.22	22.79	22.73	22.69	
10	22.65	22.67	22.61	22.57	22.62	22.69	22.89	22.88	23.11	22.80	22.71	22.68	
11	22.66	22.64	22.62	22.55	22.65	22.67	22.84	22.84	23.07	22.81	22.71	22.68	
12	22.69	22.64	22.57	22.55	22.64	22.71	22.84	22.83	23.47	22.78	22.71	22.68	
13	22.66	22.63	22.56	22.52	22.63	22.68	22.81	22.80	23.77	22.78	22.71	22.67	
14	22.64	22.62	22.53	22.50	22.62	22.68	22.82	22.79	23.52	22.78	22.71	22.67	
15	22.64	22.60	22.53	22.56	22.61	22.70	22.78	22.80	23.22	22.77	22.71	22.67	
16	22.64	22.62	22.55	22.58	22.66	22.68	22.77	22.89	23.09	22.76	22.71	22.66	
17	22.63	22.67	22.54	22.58	22.83	22.83	22.77	22.85	23.03	22.76	22.70	22.66	
18	22.63	22.71	22.59	22.56	22.97	22.78	22.77	22.88	22.98	22.76	22.70	22.67	
19	22.64	22.66	22.69	22.55	22.78	22.73	22.77	22.84	22.96	22.76	22.70	22.66	
20	22.63	22.65	22.68	22.57	22.72	22.70	22.77	22.83	22.93	22.75	22.69	22.66	
21	22.63	22.64	22.68	22.63	22.70	22.73	22.80	22.80	22.91	22.74	22.69	22.66	
22	22.62	22.61	22.66	22.63	22.84	22.71	22.84	22.79	23.04	22.74	22.70	22.66	
23	22.62	22.59	22.70	22.64	22.77	22.70	22.79	22.87	22.99	22.74	22.70	22.66	
24	22.62	22.63	22.68	22.63	22.73	22.70	22.77	22.87	23.41	22.73	22.69	22.66	
25	22.63	22.69	22.67	22.60	22.74	22.69	22.81	22.82	23.10	22.73	22.70	22.66	
26	22.66	22.65	22.65	22.58	22.79	22.68	22.80	22.82	23.00	22.73	22.70	22.65	
27	22.63	22.79	22.65	22.57	22.77	22.67	22.80	22.81	23.01	22.73	22.69	22.64	
28	22.61	22.67	22.65	22.57	22.75	22.67	22.85	22.80	22.96	22.76	22.69	22.64	
29	22.59	22.71	22.65	22.55	22.73	22.68	22.82	22.78	22.95	22.75	22.69	22.61	
30	22.58	22.89	22.64	22.48	22.70	22.72	22.98	22.80	22.92	22.74		22.57	
31		22.72		22.51	22.70		22.87		22.90	22.73		22.67	
MEAN	22.64	22.65	22.63	22.58	22.71	22.70	22.81	22.84	23.28	22.78	22.71	22.66	
MAX	22.69	22.89	22.70	22.64	22.97	22.83	22.98	23.03	24.91	22.89	22.75	22.69	24.91
MIN	22.58	22.57	22.53	22.48	22.60	22.67	22.68	22.78	22.90	22.73	22.69	22.57	22.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.29 M (MSL), AT 9.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 21.90 M (MSL), RIVER BED 21.83 M (MSL)
LEFT BANK ELEVATION 26.86 M (MSL)
RIGHT BANK ELEVATION 25.35 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.35	0.95	0.70	0.65	1.00	0.90	2.50	7.25	2.90	1.30	0.95	
2	0.75	0.50	0.90	0.65	1.50	0.95	2.60	2.40	18.89	2.60	1.30	0.95	
3	0.75	0.70	0.80	0.65	0.75	1.20	1.40	4.97	17.67	2.80	1.30	0.90	
4	0.75	0.70	0.80	0.65	0.70	1.00	1.20	2.90	60.09	2.40	1.30	0.90	
5	0.70	0.75	0.75	0.60	1.40	1.10	1.80	2.50	13.40	2.30	1.20	0.90	
6	0.70	0.45	0.70	0.55	1.40	0.90	2.00	2.10	91.61	2.10	1.30	0.90	
7	0.70	0.60	0.65	0.50	0.85	0.90	1.50	2.10	20.30	2.10	1.50	0.90	
8	0.70	0.50	0.60	0.40	0.70	0.90	2.40	2.20	14.32	2.00	1.40	0.95	
9	0.70	0.95	0.35	0.35	0.50	0.90	2.90	3.00	8.72	1.90	1.30	0.95	
10	0.75	0.85	0.55	0.35	0.60	0.95	2.90	2.80	6.49	2.00	1.10	0.90	
11	0.80	0.70	0.60	0.25	0.75	0.85	2.40	2.40	5.73	2.10	1.10	0.90	
12	0.95	0.70	0.35	0.25	0.70	1.10	2.40	2.30	15.53	1.80	1.10	0.90	
13	0.80	0.65	0.30	0.10	0.65	0.90	2.10	2.00	26.30	1.80	1.10	0.85	
14	0.70	0.60	0.15	0.00	0.60	0.90	2.20	1.90	17.06	1.80	1.10	0.85	
15	0.70	0.50	0.15	0.30	0.55	1.00	1.80	2.00	8.72	1.70	1.10	0.85	
16	0.70	0.60	0.25	0.40	0.80	0.90	1.70	2.90	6.11	1.60	1.10	0.80	
17	0.65	0.85	0.20	0.40	2.30	2.30	1.70	2.50	4.97	1.60	1.00	0.80	
18	0.65	1.10	0.45	0.30	3.98	1.80	1.70	2.80	4.12	1.60	1.00	0.85	
19	0.70	0.80	0.95	0.25	1.80	1.30	1.70	2.40	3.84	1.60	1.00	0.80	
20	0.65	0.75	0.90	0.35	1.20	1.00	1.70	2.30	3.42	1.50	0.95	0.80	
21	0.65	0.70	0.90	0.65	1.00	1.30	2.00	2.00	3.14	1.40	0.95	0.80	
22	0.60	0.55	0.80	0.65	2.40	1.10	2.40	1.90	5.16	1.40	1.00	0.80	
23	0.60	0.45	1.00	0.70	1.70	1.00	1.90	2.70	4.26	1.40	1.00	0.80	
24	0.60	0.65	0.90	0.65	1.30	1.00	1.70	2.70	13.71	1.30	0.95	0.80	
25	0.65	0.95	0.85	0.50	1.40	0.95	2.10	2.20	6.30	1.30	1.00	0.80	
26	0.80	0.75	0.75	0.40	1.90	0.90	2.00	2.20	4.40	1.30	1.00	0.75	
27	0.65	1.90	0.75	0.35	1.70	0.85	2.00	2.10	4.59	1.30	0.95	0.70	
28	0.55	0.85	0.75	0.35	1.50	0.85	2.50	2.00	3.84	1.60	0.95	0.70	
29	0.45	1.10	0.75	0.25	1.30	0.90	2.20	1.80	3.70	1.50	0.95	0.55	
30	0.40	2.90	0.70	0.00	1.00	1.20	4.12	2.00	3.28	1.40		0.35	
31		1.20		0.05	1.00		2.70		3.00	1.30		0.85	
TOTAL	20.55	25.60	19.50	12.55	38.58	31.90	64.62	72.57	409.92	55.40	32.30	25.50	808.99 CMSDAY
MEAN	0.68	0.83	0.65	0.40	1.24	1.06	2.08	2.42	13.22	1.79	1.11	0.82	2.21 CMS
MAX	0.95	2.90	1.00	0.70	3.98	2.30	4.12	4.97	91.61	2.90	1.50	0.95	91.61 CMS
MIN	0.40	0.35	0.15	0.00	0.50	0.85	0.90	1.80	3.00	1.30	0.95	0.35	0.00 CMS
RUNOFF	1.776	2.212	1.685	1.084	3.333	2.756	5.583	6.270	35.417	4.787	2.791	2.203	69.897 MCM

MOMENTARY PEAK 119.64 CMS, AT 25.29 M (MSL), AT 9.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — FLOOD PLAIN.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +11.800 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +14.916 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 — 1967-1972, 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1972, 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

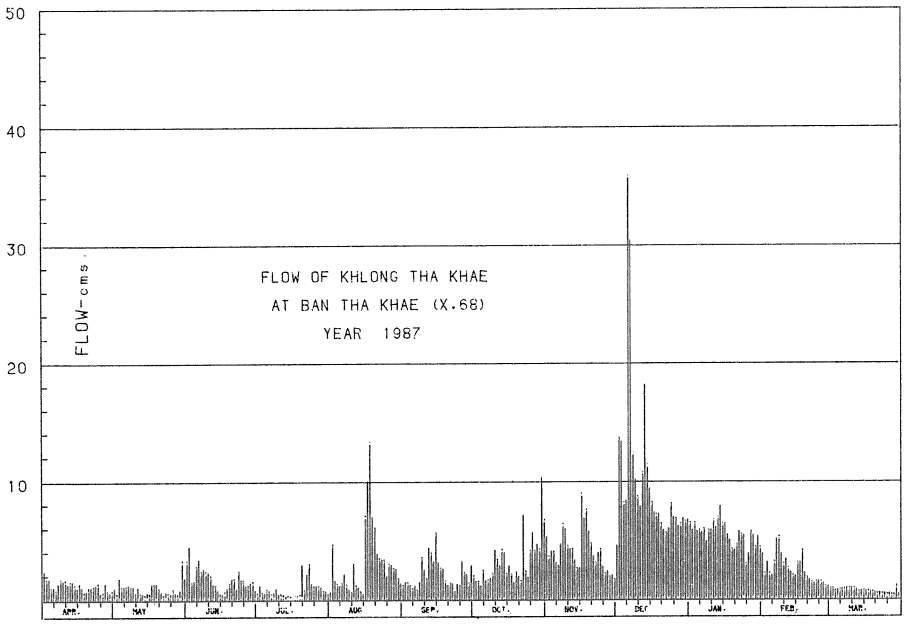
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +15.46 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 63 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.76	12.56	12.86	12.50	12.51	12.60	12.72	13.06	12.99	13.17	12.92	12.56	
2	12.68	12.48	12.98	12.59	13.00	12.64	12.65	12.90	13.71	13.11	12.74	12.56	
3	12.68	12.69	12.64	12.51	12.66	12.64	12.65	12.94	13.69	13.17	12.84	12.53	
4	12.57	12.58	12.65	12.48	12.62	12.60	12.59	12.94	13.31	13.10	12.74	12.53	
5	12.57	12.58	12.81	12.55	12.59	12.56	12.77	12.84	13.32	13.11	12.72	12.54	
6	12.54	12.59	12.87	12.53	12.63	12.59	12.66	12.81	14.93	13.09	12.85	12.55	
7	12.62	12.60	12.76	12.48	12.73	12.54	12.67	13.00	14.66	13.12	13.04	12.55	
8	12.68	12.58	12.78	12.50	12.61	12.64	12.69	13.16	13.63	13.02	13.06	12.56	
9	12.66	12.58	12.76	12.55	12.54	12.89	12.74	13.12	13.46	13.11	12.92	12.56	
10	12.67	12.50	12.75	12.46	12.51	12.77	12.95	12.99	13.35	13.11	12.83	12.56	
11	12.61	12.57	12.72	12.47	12.83	12.69	12.87	12.96	13.28	13.19	12.87	12.56	
12	12.65	12.49	12.61	12.45	12.60	12.97	12.81	12.96	13.51	13.13	12.79	12.54	
13	12.65	12.47	12.60	12.40	12.57	12.93	12.96	12.86	14.00	13.21	12.75	12.52	
14	12.61	12.45	12.53	12.43	12.52	12.85	12.93	12.79	13.56	13.28	12.72	12.52	
15	12.56	12.50	12.48	12.40	12.46	13.09	12.74	12.79	13.40	13.16	12.71	12.53	
16	12.62	12.49	12.46	12.40	13.22	12.84	12.81	13.37	13.31	13.16	12.84	12.52	
17	12.57	12.61	12.52	12.43	13.45	12.79	12.73	13.20	13.24	13.07	12.84	12.52	
18	12.51	12.62	12.56	12.42	13.69	12.78	12.63	13.26	13.23	13.03	12.95	12.51	
19	12.52	12.62	12.63	12.45	13.21	12.66	12.75	13.10	13.23	12.96	12.74	12.51	
20	12.57	12.56	12.68	12.82	13.13	12.60	12.71	13.01	13.16	12.95	12.70	12.50	
21	12.57	12.51	12.69	12.54	12.92	12.63	12.66	12.90	13.11	13.00	12.67	12.48	
22	12.59	12.45	12.55	12.73	12.88	12.62	13.22	12.84	13.09	13.10	12.64	12.49	
23	12.60	12.51	12.76	12.83	12.87	12.52	12.76	12.93	13.12	13.08	12.62	12.48	
24	12.63	12.50	12.67	12.62	12.87	12.61	12.70	12.96	13.30	13.07	12.65	12.47	
25	12.48	12.47	12.67	12.59	12.71	12.60	12.95	12.80	13.21	12.83	12.65	12.46	
26	12.51	12.55	12.59	12.59	12.83	12.85	13.09	12.74	13.20	12.92	12.65	12.47	
27	12.62	12.49	12.60	12.59	12.82	12.75	12.95	12.76	13.14	13.10	12.62	12.45	
28	12.53	12.46	12.63	12.57	12.79	12.73	13.00	12.71	13.16	13.07	12.59	12.45	
29	12.49	12.53	12.65	12.53	12.78	12.63	12.96	12.72	13.20	12.98	12.58	12.59	
30	12.53	12.86	12.53	12.52	12.69	12.81	13.47	12.68	13.18	13.06		12.45	
31		12.69		12.47	12.62		13.19		13.19	12.98		12.57	
MEAN	12.60	12.55	12.67	12.53	12.80	12.71	12.84	12.94	13.42	13.08	12.77	12.52	
MAX	12.76	12.86	12.98	12.83	13.69	13.09	13.47	13.37	14.93	13.28	13.06	12.59	14.93
MIN	12.48	12.45	12.46	12.40	12.46	12.52	12.59	12.68	12.99	12.83	12.58	12.45	12.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.60 M (MSL), AT 18.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 11.80 M (MSL), RIVER BED 11.25 M (MSL)
LEFT BANK ELEVATION 15.45 M (MSL)
RIGHT BANK ELEVATION 16.56 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.440	0.990	3.340	0.600	0.665	1.250	2.080	5.360	4.600	6.570	3.900	0.990	
2	1.770	0.540	4.500	1.185	4.700	1.510	1.575	3.700	13.705	5.910	2.260	0.990	
3	1.770	1.835	1.510	0.665	1.640	1.510	1.575	4.100	13.395	6.570	3.160	0.795	
4	1.055	1.120	1.575	0.540	1.380	1.250	1.185	4.100	8.275	5.800	2.260	0.795	
5	1.055	1.120	2.890	0.925	1.185	0.990	2.530	3.160	8.400	5.910	2.080	0.860	
6	0.860	1.185	3.430	0.795	1.445	1.185	1.640	2.890	35.930	5.690	3.250	0.925	
7	1.380	1.250	2.440	0.540	2.170	0.860	1.705	4.700	30.400	6.020	5.140	0.925	
8	1.770	1.120	2.620	0.600	1.315	1.510	1.835	6.460	12.465	4.920	5.360	0.990	
9	1.640	1.120	2.440	0.925	0.860	3.610	2.260	6.020	10.180	5.910	3.900	0.990	
10	1.705	0.600	2.350	0.480	0.665	2.530	4.200	4.600	8.775	5.910	3.070	0.990	
11	1.315	1.055	2.080	0.510	3.070	1.835	3.430	4.300	7.900	6.790	3.430	0.990	
12	1.575	0.570	1.315	0.450	1.250	4.400	2.890	4.300	10.830	6.130	2.710	0.860	
13	1.575	0.510	1.250	0.300	1.055	4.000	4.300	3.340	18.200	7.025	2.350	0.730	
14	1.315	0.450	0.795	0.390	0.730	3.250	4.000	2.710	11.480	7.900	2.080	0.730	
15	0.990	0.600	0.540	0.300	0.480	5.690	2.260	2.710	9.400	6.460	1.990	0.795	
16	1.380	0.570	0.480	0.300	7.150	3.160	2.890	9.025	8.275	6.460	3.160	0.730	
17	1.055	1.315	0.730	0.390	10.050	2.710	2.170	6.900	7.400	5.470	3.160	0.730	
18	0.665	1.380	0.990	0.360	13.395	2.620	1.445	7.650	7.275	5.030	4.200	0.665	
19	0.730	1.380	1.445	0.450	7.025	1.640	2.350	5.800	7.275	4.300	2.260	0.665	
20	1.055	0.990	1.770	2.980	6.130	1.250	1.990	4.810	6.460	4.200	1.900	0.600	
21	1.055	0.665	1.835	0.860	3.900	1.445	1.640	3.700	5.910	4.700	1.705	0.540	
22	1.185	0.450	0.925	2.170	3.520	1.380	7.150	3.160	5.690	5.800	1.510	0.570	
23	1.250	0.665	2.440	3.070	3.430	0.730	2.440	4.000	6.020	5.580	1.380	0.540	
24	1.445	0.600	1.705	1.380	3.430	1.315	1.900	4.300	8.150	5.470	1.575	0.510	
25	0.540	0.510	1.705	1.185	1.990	1.250	4.200	2.800	7.025	3.070	1.575	0.480	
26	0.665	0.925	1.185	1.185	3.070	3.250	5.690	2.260	6.900	3.900	1.575	0.510	
27	1.380	0.570	1.250	1.185	2.980	2.350	4.200	2.440	6.240	5.800	1.380	0.450	
28	0.795	0.480	1.445	1.055	2.710	2.170	4.700	1.990	6.460	5.470	1.185	0.450	
29	0.570	0.795	1.575	0.795	2.620	1.445	4.300	2.080	6.900	4.500	1.120	1.185	
30	0.795	3.340	0.795	0.730	1.835	2.890	10.310	1.770	6.680	5.360		0.450	
31		1.835		0.510	1.380		6.790		6.790	4.500		1.055	
TOTAL	36.780	30.535	53.350	27.810	97.225	64.985	101.630	125.135	313.385	173.125	74.625	23.485	1122.070 CMSDAY
MEAN	1.226	0.985	1.778	0.897	3.136	2.166	3.278	4.171	10.109	5.585	2.573	0.758	3.066 CMS
MAX	2.440	3.340	4.500	3.070	13.395	5.690	10.310	9.025	35.930	7.900	5.360	1.185	35.930 CMS
MIN	0.540	0.450	0.480	0.300	0.480	0.730	1.185	1.770	4.600	3.070	1.120	0.450	0.300 CMS
RUNOFF	3.178	2.638	4.609	2.403	8.400	5.615	8.781	10.812	27.076	14.958	6.448	2.029	96.947 MCM

MOMENTARY PEAK 50.50 CMS, AT 15.60 M (MSL), AT 18.00 HOURS, ON DEC 6, 1987

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

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

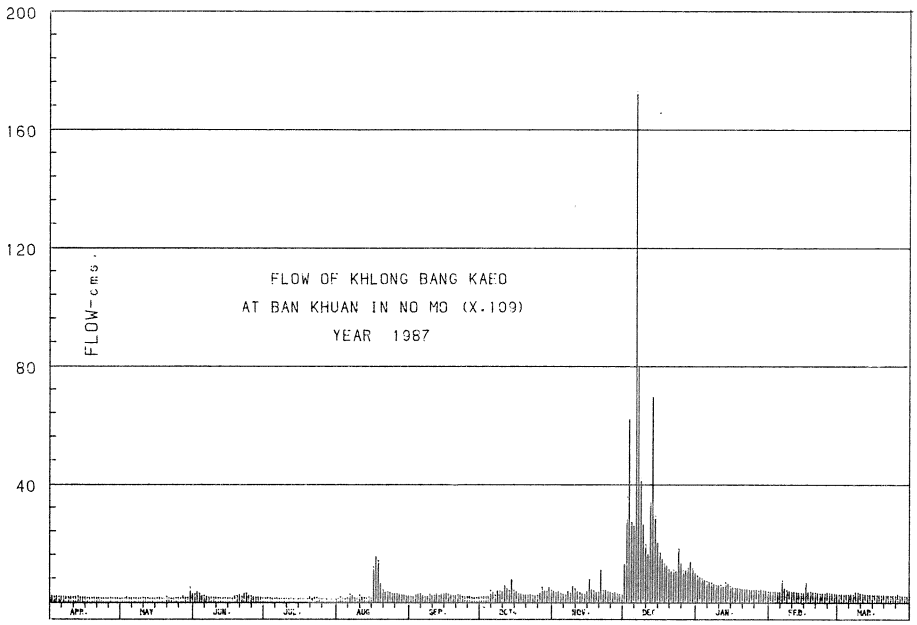
KHLONG BANG KAEO AT BAN KHUAN IN NO MO, PHATTHALUNG (X.109)

LOCATION	LAT. 7°-20'-36" N., LONG. 100°-03'-33" E., ON LEFT BANK AT BAN KHUAN IN NOMO, AMPHOE KHAO CHAI SON, PHATTHALUNG.
DRAINAGE AREA	133 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE HEALTH OFFICE.
ELEVATION	+9.575 M.(A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 131 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.71	0.64	0.77	0.65	0.63	0.69	0.68	0.85	1.50	1.26	0.83	0.75	
2	0.70	0.65	0.84	0.66	0.68	0.68	0.69	0.81	2.34	1.22	0.83	0.75	
3	0.71	0.68	0.79	0.65	0.63	0.74	0.69	0.84	3.90	1.20	0.83	0.75	
4	0.70	0.65	0.71	0.64	0.62	0.76	0.69	0.79	2.29	1.16	0.82	0.75	
5	0.70	0.65	0.73	0.64	0.65	0.78	0.89	0.76	2.23	1.13	0.82	0.75	
6	0.70	0.65	0.69	0.65	0.77	0.71	0.82	0.74	5.77	1.11	1.16	0.75	
7	0.69	0.65	0.67	0.63	0.71	0.69	0.74	0.84	4.48	1.09	0.93	0.75	
8	0.69	0.64	0.67	0.63	0.65	0.69	0.86	0.80	3.05	1.06	0.89	0.82	
9	0.69	0.65	0.67	0.63	0.63	0.76	0.87	1.00	2.25	1.03	0.85	0.81	
10	0.68	0.66	0.67	0.63	0.74	0.72	0.84	0.93	1.89	1.02	0.83	0.78	
11	0.69	0.65	0.66	0.63	0.66	0.73	1.02	0.84	1.70	1.04	0.83	0.76	
12	0.71	0.65	0.65	0.63	0.66	0.76	0.93	0.81	2.64	0.99	0.81	0.75	
13	0.68	0.64	0.65	0.62	0.64	0.72	0.88	0.77	4.18	1.10	0.80	0.74	
14	0.67	0.64	0.65	0.62	0.68	0.75	1.17	0.76	2.41	1.06	0.80	0.74	
15	0.67	0.64	0.65	0.62	0.64	0.77	0.89	0.84	1.92	1.01	0.79	0.73	
16	0.66	0.65	0.65	0.63	1.45	0.78	0.84	1.17	1.73	0.97	1.10	0.73	
17	0.66	0.66	0.64	0.62	1.66	0.76	0.78	0.91	1.61	0.95	0.82	0.73	
18	0.66	0.64	0.70	0.62	1.58	0.73	0.76	0.87	1.51	0.94	0.84	0.73	
19	0.67	0.63	0.72	0.62	1.07	0.72	0.74	0.81	1.47	0.93	0.81	0.72	
20	0.66	0.69	0.75	0.68	0.90	0.72	0.74	0.83	1.39	0.92	0.81	0.73	
21	0.66	0.65	0.70	0.63	0.82	0.75	0.73	1.38	1.35	0.91	0.79	0.72	
22	0.65	0.64	0.78	0.66	0.84	0.73	0.75	0.88	1.38	0.91	0.78	0.72	
23	0.65	0.64	0.80	0.67	0.81	0.70	0.73	0.88	1.35	0.89	0.78	0.71	
24	0.65	0.65	0.72	0.63	0.78	0.69	0.71	0.84	1.81	0.88	0.78	0.71	
25	0.65	0.66	0.71	0.62	0.78	0.69	0.73	0.82	1.52	0.88	0.80	0.71	
26	0.66	0.65	0.68	0.62	0.78	0.69	0.78	0.79	1.37	0.89	0.79	0.75	
27	0.65	0.71	0.67	0.61	0.75	0.67	0.99	0.81	1.37	0.87	0.78	0.71	
28	0.65	0.66	0.67	0.61	0.74	0.66	0.86	0.77	1.42	0.90	0.77	0.70	
29	0.65	0.66	0.66	0.61	0.73	0.66	0.85	0.75	1.55	0.88	0.76	0.70	
30	0.64	0.98	0.65	0.61	0.71	0.67	0.97	0.74	1.41	0.86		0.69	
31		0.77		0.61	0.70		0.89		1.31	0.84		0.69	
MEAN	0.67	0.67	0.70	0.63	0.81	0.72	0.82	0.85	2.13	1.00	0.84	0.74	
MAX	0.71	0.98	0.84	0.68	1.66	0.78	1.17	1.38	5.77	1.26	1.16	0.82	5.77
MIN	0.64	0.63	0.64	0.61	0.62	0.66	0.68	0.74	1.31	0.84	0.76	0.69	0.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.01 M (A.D), AT 8.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.14 M (A.D)
LEFT BANK ELEVATION 7.68 M (A.D)
RIGHT BANK ELEVATION 8.42 M (A.D), DRAINAGE AREA 133 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.21	1.44	2.87	1.55	1.33	1.99	1.88	3.75	12.90	9.13	3.53	2.65	
2	2.10	1.55	3.64	1.66	1.88	1.88	1.99	3.31	28.06	8.51	3.53	2.65	
3	2.21	1.88	3.09	1.55	1.33	2.54	1.99	3.64	62.00	8.20	3.53	2.65	
4	2.10	1.55	2.21	1.44	1.22	2.76	1.99	3.09	27.11	7.64	3.42	2.65	
5	2.10	1.55	2.43	1.44	1.55	2.98	4.19	2.76	25.97	7.22	3.42	2.65	
6	2.10	1.55	1.99	1.55	2.87	2.21	3.42	2.54	172.95	6.94	7.64	2.65	
7	1.99	1.55	1.77	1.33	2.21	1.99	2.54	3.64	80.20	6.66	4.63	2.65	
8	1.99	1.44	1.77	1.33	1.55	1.99	3.86	3.20	42.13	6.24	4.19	3.42	
9	1.99	1.55	1.77	1.33	1.33	2.76	3.97	5.40	26.35	5.82	3.75	3.31	
10	1.88	1.66	1.77	1.33	2.54	2.32	3.64	4.63	19.62	5.68	3.53	2.98	
11	1.99	1.55	1.66	1.33	1.66	2.43	5.68	3.64	16.25	5.96	3.53	2.76	
12	2.21	1.55	1.55	1.33	1.66	2.76	4.63	3.31	33.80	5.29	3.31	2.65	
13	1.88	1.44	1.55	1.22	1.44	2.32	4.08	2.87	69.45	6.80	3.20	2.54	
14	1.77	1.44	1.55	1.22	1.88	2.65	7.78	2.76	29.39	6.24	3.20	2.54	
15	1.77	1.44	1.55	1.22	1.44	2.87	4.19	3.64	20.16	5.54	3.09	2.43	
16	1.66	1.55	1.55	1.33	12.10	2.98	3.64	7.78	16.78	5.07	6.80	2.43	
17	1.66	1.66	1.44	1.22	15.55	2.76	2.98	4.41	14.68	4.85	3.42	2.43	
18	1.66	1.44	2.10	1.22	14.18	2.43	2.76	3.97	13.06	4.74	3.64	2.43	
19	1.77	1.33	2.32	1.22	6.38	2.32	2.54	3.31	12.42	4.63	3.31	2.32	
20	1.66	1.99	2.65	1.88	4.30	2.32	2.54	3.53	11.15	4.52	3.31	2.43	
21	1.66	1.55	2.10	1.33	3.42	2.65	2.43	10.99	10.53	4.41	3.09	2.32	
22	1.55	1.44	2.98	1.66	3.64	2.43	2.65	4.08	10.99	4.41	2.98	2.32	
23	1.55	1.44	3.20	1.77	3.31	2.10	2.43	4.08	10.53	4.19	2.98	2.21	
24	1.55	1.55	2.32	1.33	2.98	1.99	2.21	3.64	18.18	4.08	2.98	2.21	
25	1.55	1.66	2.21	1.22	2.98	1.99	2.43	3.42	13.22	4.08	3.20	2.21	
26	1.66	1.55	1.88	1.22	2.98	1.99	2.98	3.09	10.84	4.19	3.09	2.65	
27	1.55	2.21	1.77	1.11	2.65	1.77	5.29	3.31	10.84	3.97	2.98	2.21	
28	1.55	1.66	1.77	1.11	2.54	1.66	3.86	2.87	11.62	4.30	2.87	2.10	
29	1.55	1.66	1.66	1.11	2.43	1.66	3.75	2.65	13.70	4.08	2.76	2.10	
30	1.44	5.18	1.55	1.11	2.21	1.77	5.07	2.54	11.46	3.86		1.99	
31		2.87		1.11	2.10		4.19		9.90	3.64		1.99	
TOTAL	54.31	53.88	62.67	41.78	109.64	69.27	107.58	115.85	866.24	170.89	104.91	77.53	1834.55 CMSDAY
MEAN	1.81	1.74	2.09	1.35	3.54	2.31	3.47	3.86	27.94	5.51	3.62	2.50	5.01 CMS
MAX	2.21	5.18	3.64	1.88	15.55	2.98	7.78	10.99	172.95	9.13	7.64	3.42	172.95 CMS
MIN	1.44	1.33	1.44	1.11	1.22	1.66	1.88	2.54	9.90	3.64	2.76	1.99	1.11 CMS
RUNOFF	4.692	4.655	5.415	3.610	9.473	5.985	9.295	10.009	74.843	14.765	9.064	6.699	158.505 MCM

MOMENTARY PEAK 212.00 CMS, AT 6.01 M (A.D), AT 8.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 37.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1593.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

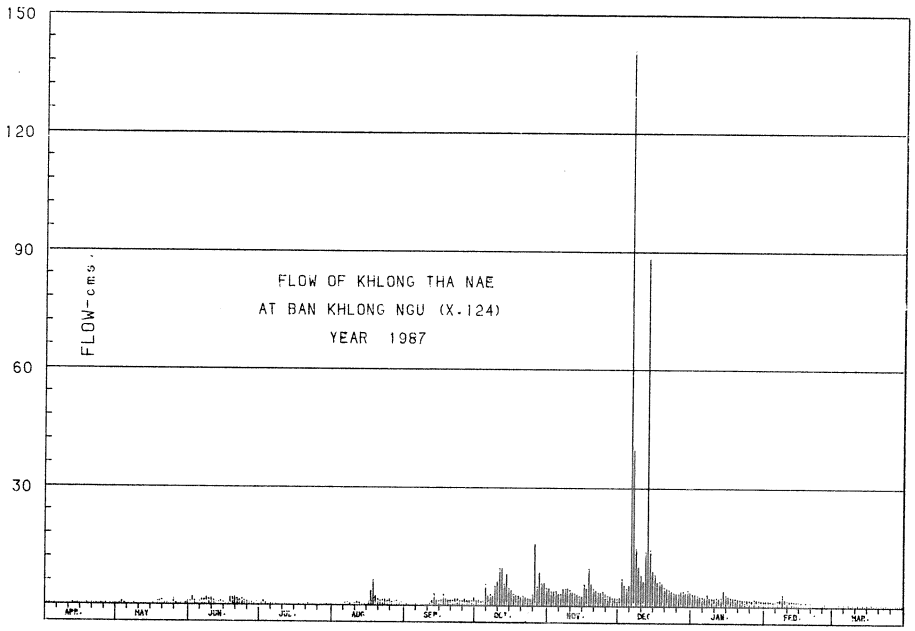
KHLONG THA NAE AT BAN PHLONG NGU, PHATTHALUNG (X.124)

LOCATION	LAT. 7°-53'-50" N., LONG. 99°-49'-29" N., ON LEFT BANK ABOUT 5 KILOMETERS DOWNSTREAM FROM PURPOSE DAMSITE, BAN PHLONG NGU, AMPHOE SI BANPHOT, PHATTHALUNG.
DRAINAGE AREA	90 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 35.60 METERS FROM THE GAGE SITE.
ELEVATION	+8.944 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	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.39	0.55	0.51	0.37	0.50	0.60	0.88	0.70	0.78	0.61	0.53	
2	0.43	0.44	0.69	0.57	0.37	0.49	0.61	0.82	1.03	0.77	0.61	0.53	
3	0.43	0.54	0.57	0.51	0.37	0.50	0.57	0.82	0.94	0.75	0.60	0.52	
4	0.43	0.46	0.54	0.50	0.38	0.50	0.58	0.83	0.88	0.72	0.58	0.52	
5	0.43	0.46	0.56	0.49	0.48	0.48	0.95	0.77	0.94	0.72	0.58	0.51	
6	0.49	0.44	0.61	0.48	0.51	0.46	0.73	0.77	3.17	0.70	0.62	0.51	
7	0.43	0.44	0.61	0.47	0.52	0.45	0.76	0.87	1.96	0.77	0.65	0.51	
8	0.43	0.43	0.67	0.45	0.44	0.48	0.72	0.87	1.35	0.70	0.77	0.50	
9	0.41	0.45	0.63	0.45	0.42	0.54	0.92	0.88	1.17	0.69	0.66	0.50	
10	0.41	0.56	0.65	0.43	0.48	0.51	0.99	0.85	1.07	0.68	0.63	0.51	
11	0.41	0.49	0.59	0.43	0.55	0.50	1.15	0.80	1.00	0.71	0.61	0.51	
12	0.59	0.49	0.55	0.42	0.52	0.59	1.15	0.78	1.32	0.68	0.61	0.51	
13	0.49	0.47	0.53	0.41	0.47	0.77	0.95	0.76	2.66	0.71	0.59	0.50	
14	0.45	0.46	0.56	0.41	0.45	0.60	1.08	0.73	1.34	0.84	0.59	0.51	
15	0.45	0.46	0.52	0.40	0.45	0.60	0.88	0.72	1.12	0.76	0.58	0.50	
16	0.44	0.51	0.51	0.40	0.57	0.62	0.84	0.95	1.08	0.73	0.57	0.50	
17	0.43	0.51	0.49	0.40	0.82	0.76	0.77	0.88	0.99	0.71	0.57	0.50	
18	0.45	0.55	0.67	0.40	1.01	0.65	0.74	1.15	1.00	0.70	0.57	0.50	
19	0.45	0.56	0.67	0.39	0.72	0.61	0.73	0.96	0.97	0.69	0.56	0.49	
20	0.42	0.59	0.69	0.40	0.64	0.61	0.70	0.88	0.91	0.67	0.56	0.49	
21	0.42	0.52	0.64	0.45	0.60	0.61	0.73	0.84	0.88	0.66	0.56	0.49	
22	0.41	0.48	0.60	0.42	0.62	0.65	0.70	0.80	0.86	0.65	0.56	0.49	
23	0.41	0.46	0.64	0.41	0.63	0.65	0.67	0.80	0.83	0.64	0.55	0.48	
24	0.41	0.45	0.58	0.41	0.59	0.59	0.65	0.82	0.80	0.64	0.55	0.48	
25	0.41	0.55	0.55	0.40	0.64	0.59	0.76	0.77	0.79	0.63	0.55	0.48	
26	0.42	0.46	0.54	0.39	0.56	0.65	1.39	0.74	0.78	0.62	0.54	0.48	
27	0.41	0.44	0.53	0.38	0.57	0.60	0.91	0.73	0.82	0.66	0.54	0.48	
28	0.40	0.42	0.51	0.38	0.59	0.60	1.10	0.70	0.83	0.65	0.54	0.47	
29	0.39	0.41	0.54	0.38	0.56	0.60	0.96	0.69	0.79	0.63	0.53	0.47	
30	0.39	0.63	0.52	0.38	0.54	0.69	0.97	0.68	0.85	0.62		0.47	
31		0.55		0.38	0.52		0.89		0.81	0.61		0.48	
MEAN	0.43	0.49	0.58	0.43	0.55	0.58	0.84	0.82	1.12	0.69	0.59	0.50	
MAX	0.59	0.63	0.69	0.57	1.01	0.77	1.39	1.15	3.17	0.84	0.77	0.53	3.17
MIN	0.39	0.39	0.49	0.38	0.37	0.45	0.57	0.68	0.70	0.61	0.53	0.47	0.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.93 M (A.D), AT 18.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.60 M (A.D)
LEFT BANK ELEVATION 5.05 M (A.D)
RIGHT BANK ELEVATION 4.73 M (A.D), DRAINAGE AREA 90 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.18	0.83	0.52	0.14	0.45	1.20	4.34	2.00	3.04	1.28	0.67	
2	0.28	0.30	1.92	0.97	0.14	0.43	1.28	3.56	6.84	2.91	1.28	0.67	
3	0.28	0.75	0.97	0.52	0.14	0.45	0.97	3.56	5.24	2.65	1.20	0.60	
4	0.28	0.35	0.75	0.45	0.16	0.45	1.05	3.69	4.34	2.26	1.05	0.60	
5	0.28	0.35	0.90	0.43	0.40	0.40	5.40	2.91	5.24	2.26	1.05	0.52	
6	0.43	0.30	1.28	0.40	0.52	0.35	2.39	2.91	140.89	2.00	1.36	0.52	
7	0.28	0.30	1.28	0.38	0.60	0.32	2.78	4.21	39.52	2.91	1.60	0.52	
8	0.28	0.28	1.76	0.32	0.30	0.40	2.26	4.21	14.48	2.00	2.91	0.45	
9	0.22	0.32	1.44	0.32	0.25	0.75	4.92	4.34	9.85	1.92	1.68	0.45	
10	0.22	0.90	1.60	0.28	0.40	0.52	6.04	3.95	7.71	1.84	1.44	0.52	
11	0.22	0.43	1.12	0.28	0.83	0.45	9.42	3.30	6.20	2.13	1.28	0.52	
12	1.12	0.43	0.83	0.25	0.60	1.12	9.42	3.04	13.68	1.84	1.28	0.52	
13	0.43	0.38	0.67	0.22	0.38	2.91	5.40	2.78	88.12	2.13	1.12	0.45	
14	0.32	0.35	0.90	0.22	0.32	1.20	7.92	2.39	14.21	3.82	1.12	0.52	
15	0.32	0.35	0.60	0.20	0.32	1.20	4.34	2.26	8.78	2.78	1.05	0.45	
16	0.30	0.52	0.52	0.20	0.97	1.36	3.82	5.40	7.92	2.39	0.97	0.45	
17	0.28	0.52	0.43	0.20	3.56	2.78	2.91	4.34	6.04	2.13	0.97	0.45	
18	0.32	0.83	1.76	0.20	6.41	1.60	2.52	9.42	6.20	2.00	0.97	0.45	
19	0.32	0.90	1.76	0.18	2.26	1.28	2.39	5.56	5.72	1.92	0.90	0.43	
20	0.25	1.12	1.92	0.20	1.52	1.28	2.00	4.34	4.76	1.76	0.90	0.43	
21	0.25	0.60	1.52	0.32	1.20	1.28	2.39	3.82	4.34	1.68	0.90	0.43	
22	0.22	0.40	1.20	0.25	1.36	1.60	2.00	3.30	4.08	1.60	0.90	0.43	
23	0.22	0.35	1.52	0.22	1.44	1.60	1.76	3.30	3.69	1.52	0.83	0.40	
24	0.22	0.32	1.05	0.22	1.12	1.12	1.60	3.56	3.30	1.52	0.83	0.40	
25	0.22	0.83	0.83	0.20	1.52	1.12	2.78	2.91	3.17	1.44	0.83	0.40	
26	0.25	0.35	0.75	0.18	0.90	1.60	15.54	2.52	3.04	1.36	0.75	0.40	
27	0.22	0.30	0.67	0.16	0.97	1.20	4.76	2.39	3.56	1.68	0.75	0.40	
28	0.20	0.25	0.52	0.16	1.12	1.20	8.35	2.00	3.69	1.60	0.75	0.38	
29	0.18	0.22	0.75	0.16	0.90	1.20	5.56	1.92	3.17	1.44	0.67	0.38	
30	0.18	1.44	0.60	0.16	0.75	1.92	5.72	1.84	3.95	1.36		0.38	
31		0.83		0.16	0.60		4.47		3.43	1.28		0.40	
TOTAL	8.91	15.75	32.65	8.93	32.10	33.54	133.36	108.07	437.16	63.17	32.62	14.59	920.85 CMSDAY
MEAN	0.30	0.51	1.09	0.29	1.04	1.12	4.30	3.60	14.10	2.04	1.12	0.47	2.52 CMS
MAX	1.12	1.44	1.92	0.97	6.41	2.91	15.54	9.42	140.89	3.82	2.91	0.67	140.89 CMS
MIN	0.18	0.18	0.43	0.16	0.14	0.32	0.97	1.84	2.00	1.28	0.67	0.38	0.14 CMS
RUNOFF	0.770	1.361	2.821	0.772	2.773	2.898	11.522	9.337	37.771	5.458	2.818	1.261	79.561 MCM

MOMENTARY PEAK 253.84 CMS, AT 3.93 M (A.D), AT 18.00 HOURS, ON DEC 6, 1987

RUNOFF YIELD 27.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2820.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG THA MA DUA AT BAN KHLONG AI TO, PHATTHALUNG (X.129)

LOCATION — LAT. 07°-23'-19" N., LONG. 100°-06'-44" N., ON RIGHT BANK NEAR WAT BAN AI TO, BAN KHLONG AI TO, AMPHOE KHAO CHAI SON, PHATTHALUNG.

DRAINAGE AREA — 332 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +13.30 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +20.510 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 — 1982 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

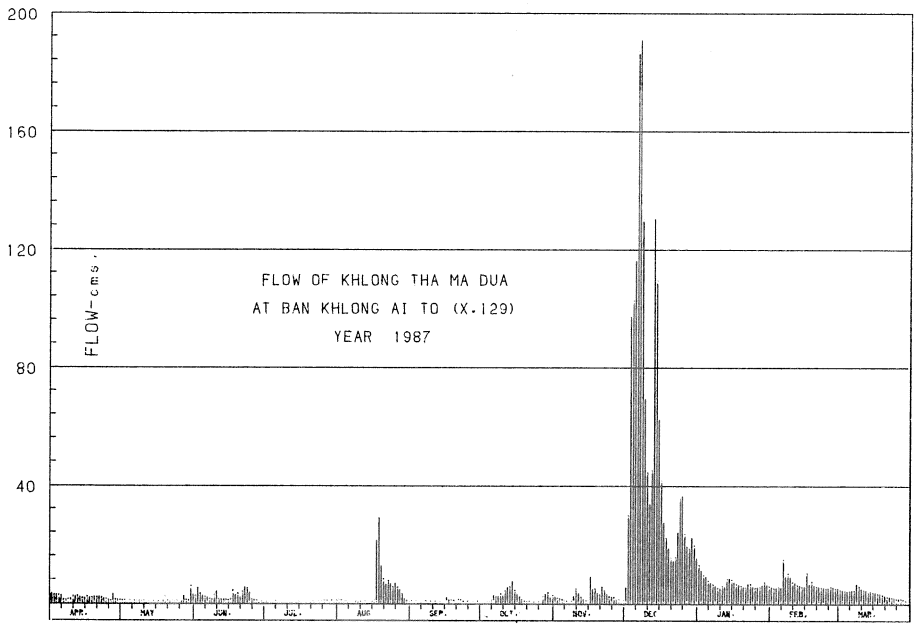
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 66 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.92	13.67	13.85	13.61	13.67	13.64	13.63	13.80	14.07	14.55	14.08	14.02	
2	13.89	13.67	14.07	13.59	13.67	13.64	13.63	13.76	15.33	14.44	14.06	14.00	
3	13.88	13.66	13.92	13.59	13.65	13.64	13.63	13.74	17.79	14.35	14.06	13.99	
4	13.88	13.66	13.84	13.63	13.63	13.63	13.62	13.70	17.96	14.32	14.08	13.98	
5	13.85	13.65	13.82	13.63	13.63	13.67	13.68	13.66	18.37	14.24	14.07	13.99	
6	13.69	13.65	13.78	13.61	13.63	13.65	13.85	13.63	20.43	14.19	14.65	14.00	
7	13.68	13.64	13.73	13.60	13.63	13.63	13.81	13.63	20.52	14.16	14.32	14.00	
8	13.71	13.64	13.70	13.60	13.62	13.63	13.82	13.63	18.81	14.11	14.39	14.16	
9	13.73	13.64	13.88	13.59	13.62	13.63	13.92	13.82	16.86	14.07	14.31	14.11	
10	13.83	13.64	13.97	13.60	13.63	13.63	13.83	14.05	15.94	14.05	14.21	14.04	
11	13.82	13.63	13.72	13.60	13.64	13.63	14.00	13.93	15.50	14.12	14.19	14.01	
12	13.85	13.63	13.70	13.60	13.63	13.63	14.07	13.80	15.97	14.08	14.14	14.00	
13	13.79	13.63	13.69	13.60	13.63	13.63	14.10	13.69	18.81	14.28	14.12	13.94	
14	13.77	13.64	13.69	13.60	13.63	13.63	14.22	13.65	18.17	14.28	14.09	13.97	
15	13.75	13.63	13.68	13.60	13.64	13.63	14.01	13.65	16.61	14.26	14.09	13.95	
16	13.82	13.63	13.72	13.60	13.67	13.77	13.90	14.39	15.83	14.20	14.40	13.94	
17	13.76	13.63	14.01	13.60	14.95	13.67	13.80	14.03	15.22	14.16	14.15	13.92	
18	13.79	13.64	13.88	13.60	15.29	13.69	13.69	14.05	14.99	14.14	14.22	13.91	
19	13.80	13.64	13.93	13.60	14.53	13.66	13.64	13.93	14.83	14.12	14.12	13.88	
20	13.80	13.64	13.77	13.61	14.28	13.66	13.63	13.89	14.68	14.08	14.10	13.84	
21	13.80	13.64	13.98	13.61	14.15	13.70	13.63	14.09	14.62	14.08	14.09	13.81	
22	13.79	13.64	14.08	13.61	14.24	13.68	13.62	14.00	14.69	14.16	14.08	13.80	
23	13.73	13.64	14.06	13.62	14.17	13.63	13.61	13.89	15.07	14.17	14.07	13.78	
24	13.73	13.64	13.94	13.62	14.09	13.63	13.61	13.83	15.58	14.09	14.05	13.77	
25	13.67	13.63	13.71	13.62	14.18	13.63	13.61	13.80	15.62	14.07	14.06	13.73	
26	13.65	13.77	13.68	13.65	14.09	13.63	13.61	13.80	15.05	14.08	14.10	13.72	
27	13.90	13.83	13.66	13.65	14.01	13.63	13.82	13.67	14.86	14.08	14.08	13.73	
28	13.71	13.69	13.63	13.65	13.91	13.63	13.89	13.70	14.83	14.13	14.05	13.70	
29	13.69	13.67	13.62	13.65	13.72	13.63	13.95	13.65	14.99	14.21	14.05	13.65	
30	13.68	14.12	13.61	13.65	13.66	13.63	13.76	13.65	14.88	14.14		13.63	
31		13.88		13.66	13.65		13.87		14.67	14.11		13.63	
MEAN	13.78	13.68	13.81	13.61	13.91	13.65	13.79	13.82	16.18	14.18	14.15	13.89	
MAX	13.92	14.12	14.08	13.66	15.29	13.77	14.22	14.39	20.52	14.55	14.65	14.16	20.52
MIN	13.65	13.63	13.61	13.59	13.62	13.63	13.61	13.63	14.07	14.05	14.05	13.63	13.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 20.69 M (MSL), AT 21.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 13.30 M (MSL), RIVER BED 13.24 M (MSL)
LEFT BANK ELEVATION 20.81 M (MSL)
RIGHT BANK ELEVATION 20.68 M (MSL), DRAINAGE AREA 332 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.46	1.26	2.75	0.78	1.26	1.02	0.94	2.30	5.45	13.13	5.58	4.77	
2	3.11	1.26	5.45	0.63	1.26	1.02	0.94	1.98	29.92	11.20	5.31	4.50	
3	3.02	1.18	3.46	0.63	1.10	1.02	0.94	1.82	97.20	9.68	5.31	4.37	
4	3.02	1.18	2.66	0.94	0.94	0.94	0.86	1.50	102.70	9.18	5.58	4.24	
5	2.75	1.10	2.48	0.94	0.94	1.26	1.34	1.18	116.03	7.86	5.45	4.37	
6	1.42	1.10	2.14	0.78	0.94	1.10	2.75	0.94	187.20	7.07	15.00	4.50	
7	1.34	1.02	1.74	0.70	0.94	0.94	2.39	0.94	190.80	6.66	9.18	4.50	
8	1.58	1.02	1.50	0.70	0.86	0.94	2.48	0.94	130.33	5.99	10.34	6.66	
9	1.74	1.02	3.02	0.63	0.86	0.94	3.46	2.48	69.44	5.45	9.02	5.99	
10	2.57	1.02	4.11	0.70	0.94	0.94	2.57	5.18	44.50	5.18	7.37	5.04	
11	2.48	0.94	1.66	0.70	1.02	0.94	4.50	3.59	33.75	6.12	7.07	4.64	
12	2.75	0.94	1.50	0.70	0.94	0.94	5.45	2.30	45.25	5.58	6.39	4.50	
13	2.22	0.94	1.42	0.70	0.94	0.94	5.85	1.42	130.33	8.52	6.12	3.72	
14	2.06	1.02	1.42	0.70	0.94	0.94	7.53	1.10	109.53	8.52	5.72	4.11	
15	1.90	0.94	1.34	0.70	1.02	0.94	4.64	1.10	62.29	8.19	5.72	3.85	
16	2.48	0.94	1.66	0.70	1.26	2.06	3.20	10.34	41.75	7.20	10.50	3.72	
17	1.98	0.94	4.64	0.70	21.37	1.26	2.30	4.91	27.45	6.66	6.53	3.46	
18	2.22	1.02	3.02	0.70	29.02	1.42	1.42	5.18	22.28	6.39	7.53	3.33	
19	2.30	1.02	3.59	0.70	12.78	1.18	1.02	3.59	18.67	6.12	6.12	3.02	
20	2.30	1.02	2.06	0.78	8.52	1.18	0.94	3.11	15.60	5.58	5.85	2.66	
21	2.30	1.02	4.24	0.78	6.53	1.50	0.94	5.72	14.40	5.58	5.72	2.39	
22	2.22	1.02	5.58	0.78	7.86	1.34	0.86	4.50	15.80	6.66	5.58	2.30	
23	1.74	1.02	5.31	0.86	6.80	0.94	0.78	3.11	24.08	6.80	5.45	2.14	
24	1.74	1.02	3.72	0.86	5.72	0.94	0.78	2.57	35.55	5.72	5.18	2.06	
25	1.26	0.94	1.58	0.86	6.93	0.94	0.78	2.30	36.50	5.45	5.31	1.74	
26	1.10	2.06	1.34	1.10	5.72	0.94	0.78	2.30	23.62	5.58	5.85	1.66	
27	3.20	2.57	1.18	1.10	4.64	0.94	2.48	1.26	19.35	5.58	5.58	1.74	
28	1.58	1.42	0.94	1.10	3.33	0.94	3.11	1.50	18.67	6.26	5.18	1.50	
29	1.42	1.26	0.86	1.10	1.66	0.94	3.85	1.10	22.28	7.37	5.18	1.10	
30	1.34	6.12	0.78	1.10	1.18	0.94	1.98	1.10	19.80	6.39		0.94	
31		3.02		1.18	1.10		2.93		15.40	5.99		0.94	
TOTAL	64.60	42.35	77.15	25.33	139.32	32.28	74.79	81.36	1725.92	217.66	194.72	104.46	2779.94 CMSDAY
MEAN	2.15	1.37	2.57	0.82	4.49	1.08	2.41	2.71	55.67	7.02	6.71	3.37	7.60 CMS
MAX	3.46	6.12	5.58	1.18	29.02	2.06	7.53	10.34	190.80	13.13	15.00	6.66	190.80 CMS
MIN	1.10	0.94	0.78	0.63	0.86	0.94	0.78	0.94	5.45	5.18	5.18	0.94	0.63 CMS
RUNOFF	5.581	3.659	6.666	2.189	12.037	2.789	6.462	7.030	149.120	18.806	16.824	9.025	240.187 MCM

MOMENTARY PEAK 197.60 CMS, AT 20.69 M (MSL), AT 21.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 22.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 595.18 LITERS/SECOND/SQUARE KM

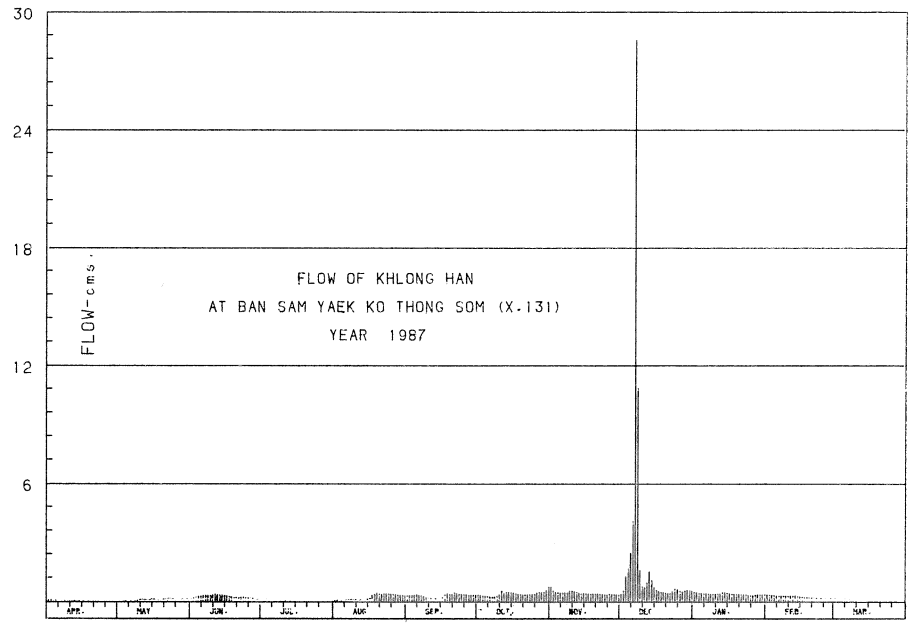
KHLONG HAN AT BAN SAM YAEK KO THONG SOM, PHATTHALUNG (X.131)

LOCATION	LAT. 7°24'12" N., LONG. 100°05'42" E., ON LEFT BANK UPSTREAM SIDE OF THE BRIDGE OF PHATTHALUNG-HAT YAI HIGHWAY AT BAN SAM YAEK KO THONG SOM, AMPHOE KHAO CHAI SON, PHATTHALUNG.
DRAINAGE AREA	9 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+15.79 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE OBSERVER' S HOUSE.
ELEVATION	+23.713 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +18.59 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 1 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	16.70	16.48	16.79	16.77	16.62	17.01	17.04	17.27	17.07	17.14	17.04	16.83	
2	16.69	16.50	16.86	16.77	16.64	17.00	17.02	17.17	17.17	17.13	17.03	16.82	
3	16.66	16.54	16.93	16.75	16.63	17.01	16.99	17.14	17.42	17.11	17.02	16.81	
4	16.64	16.59	16.97	16.69	16.64	17.03	16.98	17.13	17.51	17.11	17.02	16.81	
5	16.62	16.59	16.98	16.63	16.64	17.05	16.97	17.12	17.61	17.10	17.00	16.80	
6	16.61	16.58	17.01	16.59	16.68	17.02	16.94	17.12	17.74	17.10	16.99	16.79	
7	16.60	16.58	17.02	16.58	16.72	17.00	16.92	17.13	18.97	17.09	16.99	16.77	
8	16.60	16.59	17.02	16.58	16.73	16.96	16.94	17.12	18.18	17.08	16.99	16.77	
9	16.59	16.64	17.02	16.58	16.72	16.89	16.98	17.17	17.50	17.08	16.99	16.77	
10	16.58	16.71	17.04	16.59	16.72	16.86	17.05	17.17	17.28	17.07	16.98	16.76	
11	16.60	16.72	17.07	16.59	16.70	16.85	17.17	17.16	17.26	17.09	16.99	16.75	
12	16.60	16.71	17.05	16.58	16.69	16.83	17.10	17.14	17.34	17.09	16.99	16.74	
13	16.60	16.70	17.04	16.57	16.68	16.82	17.14	17.12	17.48	17.13	16.99	16.72	
14	16.59	16.69	17.03	16.55	16.68	16.81	17.14	17.09	17.37	17.13	16.97	16.71	
15	16.58	16.78	17.01	16.53	16.76	16.82	17.13	17.11	17.26	17.12	16.94	16.70	
16	16.57	16.77	16.99	16.53	16.84	16.91	17.12	17.10	17.19	17.10	16.93	16.69	
17	16.56	16.66	16.97	16.52	17.03	17.04	17.10	17.09	17.16	17.08	16.92	16.69	
18	16.55	16.71	16.93	16.51	17.08	17.10	17.07	17.09	17.14	17.08	16.91	16.68	
19	16.53	16.74	16.91	16.49	17.12	17.06	17.06	17.09	17.14	17.07	16.90	16.66	
20	16.52	16.77	16.92	16.48	17.09	17.07	17.05	17.09	17.12	17.07	16.89	16.65	
21	16.52	16.80	16.89	16.47	17.07	17.12	17.05	17.09	17.10	17.06	16.88	16.66	
22	16.51	16.82	16.92	16.47	17.10	17.10	17.05	17.09	17.11	17.05	16.86	16.65	
23	16.50	16.82	16.93	16.47	17.10	17.07	17.06	17.07	17.15	17.04	16.85	16.64	
24	16.50	16.80	16.89	16.47	17.09	17.07	17.06	17.05	17.22	17.02	16.84	16.63	
25	16.49	16.75	16.88	16.47	17.08	17.06	17.07	17.04	17.21	17.01	16.83	16.62	
26	16.48	16.72	16.86	16.48	17.08	17.05	17.11	17.09	17.17	17.01	16.83	16.60	
27	16.48	16.76	16.84	16.49	17.06	17.02	17.14	17.07	17.15	17.03	16.86	16.59	
28	16.48	16.77	16.79	16.49	17.04	17.03	17.13	17.06	17.17	17.05	16.85	16.59	
29	16.48	16.78	16.73	16.53	17.03	17.03	17.14	17.05	17.19	17.05	16.84	16.59	
30	16.48	16.79	16.70	16.53	17.02	17.03	17.18	17.04	17.18	17.05		16.61	
31		16.79		16.53	17.00		17.27		17.17	17.05		16.62	
MEAN	16.56	16.70	16.93	16.56	16.87	16.99	17.07	17.11	17.35	17.08	16.94	16.70	
MAX	16.70	16.82	17.07	16.77	17.12	17.12	17.27	17.27	18.97	17.14	17.04	16.83	18.97
MIN	16.48	16.48	16.70	16.47	16.62	16.81	16.92	17.04	17.07	17.01	16.83	16.59	16.47

ANNUAL MAX MOMENTARY GAGE HEIGHT 18.99 M (MSL), AT 6.00 HOURS, ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 15.79 M (MSL), RIVER BED 15.93 M (MSL)
LEFT BANK ELEVATION 18.58 M (MSL)
RIGHT BANK ELEVATION 18.73 M (MSL), DRAINAGE AREA 9 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.100	0.000	0.145	0.135	0.060	0.310	0.340	0.740	0.370	0.480	0.340	0.165	
2	0.095	0.000	0.180	0.135	0.070	0.300	0.320	0.540	0.540	0.460	0.330	0.160	
3	0.080	0.020	0.230	0.125	0.065	0.310	0.290	0.480	1.280	0.420	0.320	0.155	
4	0.070	0.045	0.270	0.095	0.070	0.330	0.280	0.460	1.675	0.420	0.320	0.155	
5	0.060	0.045	0.280	0.065	0.070	0.350	0.270	0.440	2.470	0.400	0.300	0.150	
6	0.055	0.040	0.310	0.045	0.090	0.320	0.240	0.440	4.070	0.400	0.290	0.145	
7	0.050	0.040	0.320	0.040	0.110	0.300	0.220	0.460	28.575	0.390	0.290	0.135	
8	0.050	0.045	0.320	0.040	0.115	0.260	0.240	0.440	10.860	0.380	0.290	0.135	
9	0.045	0.070	0.320	0.040	0.110	0.195	0.280	0.540	1.600	0.380	0.290	0.135	
10	0.040	0.105	0.340	0.045	0.110	0.180	0.350	0.540	0.760	0.370	0.280	0.130	
11	0.050	0.110	0.370	0.045	0.100	0.175	0.540	0.520	0.720	0.390	0.290	0.125	
12	0.050	0.105	0.350	0.040	0.095	0.165	0.400	0.480	0.960	0.390	0.290	0.120	
13	0.050	0.100	0.340	0.035	0.090	0.160	0.480	0.440	1.520	0.460	0.290	0.110	
14	0.045	0.095	0.330	0.025	0.090	0.155	0.480	0.390	1.080	0.460	0.270	0.105	
15	0.040	0.140	0.310	0.015	0.130	0.160	0.460	0.420	0.720	0.440	0.240	0.100	
16	0.035	0.135	0.290	0.015	0.170	0.210	0.440	0.400	0.580	0.400	0.230	0.095	
17	0.030	0.080	0.270	0.010	0.330	0.340	0.400	0.390	0.520	0.380	0.220	0.095	
18	0.025	0.105	0.230	0.005	0.380	0.400	0.370	0.390	0.480	0.380	0.210	0.090	
19	0.015	0.120	0.210	0.000	0.440	0.360	0.360	0.390	0.480	0.370	0.200	0.080	
20	0.010	0.135	0.220	0.000	0.390	0.370	0.350	0.390	0.440	0.370	0.195	0.075	
21	0.010	0.150	0.195	0.000	0.370	0.440	0.350	0.390	0.400	0.360	0.190	0.080	
22	0.005	0.160	0.220	0.000	0.400	0.400	0.350	0.390	0.420	0.350	0.180	0.075	
23	0.000	0.160	0.230	0.000	0.400	0.370	0.360	0.370	0.500	0.340	0.175	0.070	
24	0.000	0.150	0.195	0.000	0.390	0.370	0.360	0.350	0.640	0.320	0.170	0.065	
25	0.000	0.125	0.190	0.000	0.380	0.360	0.370	0.340	0.620	0.310	0.165	0.060	
26	0.000	0.110	0.180	0.000	0.380	0.350	0.420	0.390	0.540	0.310	0.165	0.050	
27	0.000	0.130	0.170	0.000	0.360	0.320	0.480	0.370	0.500	0.330	0.180	0.045	
28	0.000	0.135	0.145	0.000	0.340	0.330	0.460	0.360	0.540	0.350	0.175	0.045	
29	0.000	0.140	0.115	0.015	0.330	0.330	0.480	0.350	0.580	0.350	0.170	0.045	
30	0.000	0.145	0.100	0.015	0.320	0.330	0.560	0.340	0.560	0.350		0.055	
31		0.145		0.015	0.300		0.740		0.540	0.350		0.060	
TOTAL	1.010	3.085	7.375	1.000	7.055	8.950	12.040	12.940	65.540	11.860	7.055	3.110	141.020 CMSDAY
MEAN	0.034	0.100	0.246	0.032	0.228	0.298	0.388	0.431	2.114	0.383	0.243	0.100	0.385 CMS
MAX	0.100	0.160	0.370	0.135	0.440	0.440	0.740	0.740	28.575	0.480	0.340	0.165	28.575 CMS
MIN	0.000	0.000	0.100	0.000	0.060	0.155	0.220	0.340	0.370	0.310	0.165	0.045	0.000 CMS
RUNOFF	0.087	0.267	0.637	0.086	0.610	0.773	1.040	1.118	5.663	1.025	0.610	0.269	12.184 MCM

MOMENTARY PEAK 29.12 CMS, AT 18.99 M (MSL), AT 6.00 HOURS, ON DEC 7, 1987
RUNOFF YIELD 42.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 3236.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

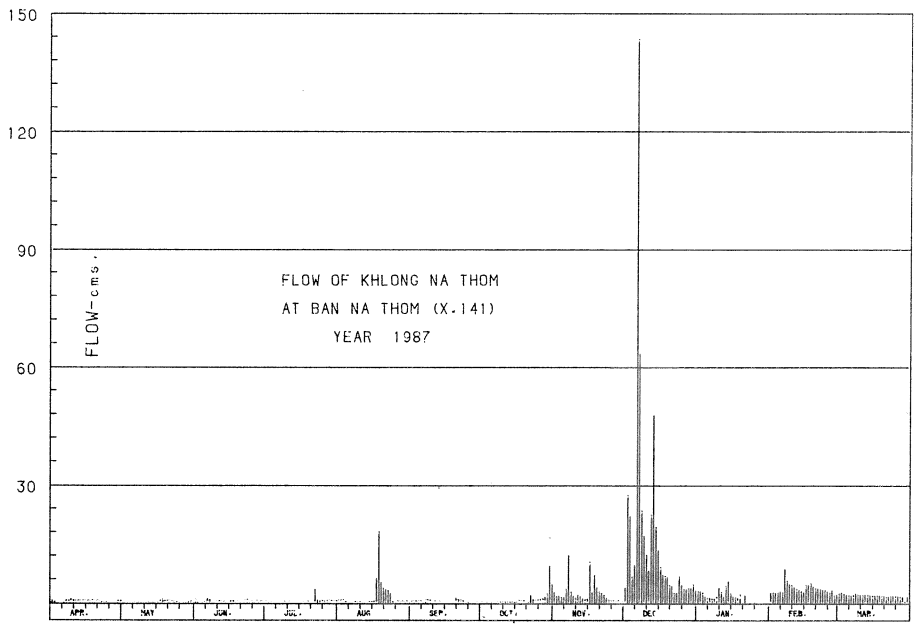
KHLONG NA THOM AT BAN NA THOM, PHATTHALUNG (X.141)

LOCATION	LAT. 7°-35'-32" N., LONG. 100°-00'-44" E., ON RIGHT BANK DOWNSTREAM SIDE OF THE BRIDGE OF PHATTHALUNG-TRANG HIGHWAY AT BAN NA THOM, AMPHOE MUANG, PHATTHALUNG.
DRAINAGE AREA	FLOOD PLAIN.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+15.210 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 5 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+21.348 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +19.21 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY NA THOM WEIR. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.69	15.58	15.74	15.66	15.71	15.66	15.61	16.00	16.11	16.04	15.98	15.96	
2	15.61	15.57	15.63	15.64	15.72	15.67	15.60	15.87	17.54	16.03	16.00	15.99	
3	15.58	15.58	15.60	15.64	15.73	15.67	15.60	15.88	17.30	15.99	15.98	15.95	
4	15.60	15.58	15.60	15.63	15.63	15.68	15.59	15.83	16.38	15.85	16.00	15.92	
5	15.59	15.58	15.63	15.64	15.62	15.69	15.60	15.81	16.59	15.80	16.02	15.91	
6	15.70	15.60	15.76	15.63	15.61	15.66	15.58	16.09	20.17	15.80	16.00	15.89	
7	15.70	15.59	15.72	15.63	15.63	15.75	15.58	16.77	18.75	15.77	16.52	15.91	
8	15.69	15.59	15.60	15.63	15.62	15.74	15.60	16.01	17.37	15.76	16.29	15.96	
9	15.75	15.58	15.64	15.63	15.63	15.72	15.60	15.87	17.05	15.84	16.21	15.93	
10	15.71	15.58	15.69	15.63	15.62	15.68	15.61	15.80	16.78	16.11	16.19	15.92	
11	15.69	15.59	15.67	15.63	15.61	15.67	15.59	15.91	16.49	16.02	16.13	15.92	
12	15.69	15.60	15.66	15.62	15.62	15.66	15.60	15.86	17.32	15.84	16.09	15.92	
13	15.69	15.59	15.63	15.61	15.63	15.66	15.59	15.76	18.28	16.17	16.06	15.92	
14	15.70	15.66	15.61	15.58	15.61	15.64	15.61	15.73	17.17	16.27	16.03	15.90	
15	15.69	15.57	15.57	15.59	15.64	15.63	15.58	15.75	16.85	15.97	16.00	15.89	
16	15.69	15.60	15.67	15.60	15.65	15.62	15.60	16.66	16.56	15.85	16.19	15.89	
17	15.68	15.70	15.67	15.59	16.34	15.62	15.70	15.99	16.42	15.82	16.18	15.90	
18	15.71	15.66	15.65	15.60	17.11	15.62	15.68	16.41	16.40	15.79	16.23	15.89	
19	15.70	15.68	15.64	15.64	16.25	15.65	15.69	16.12	16.37	15.93	16.14	15.88	
20	15.69	15.70	15.63	15.61	16.11	15.79	15.68	16.02	16.19	15.53	16.11	15.87	
21	15.69	15.69	15.67	15.61	16.07	15.74	15.56	15.98	16.16	15.95	16.09	15.84	
22	15.59	15.67	15.70	16.07	16.05	15.72	15.90	15.92	15.98	15.55	16.08	15.85	
23	15.61	15.67	15.74	15.71	15.96	15.69	15.73	15.79	15.97	15.54	16.06	15.87	
24	15.61	15.60	15.68	15.69	15.64	15.65	15.71	15.72	16.39	15.52	16.05	15.88	
25	15.59	15.59	15.67	15.70	15.64	15.60	15.73	15.70	16.18	15.61	16.02	15.87	
26	15.58	15.58	15.67	15.69	15.67	15.59	15.75	15.69	16.08	15.61	15.99	15.86	
27	15.59	15.57	15.69	15.70	15.68	15.58	15.77	15.69	16.07	15.62	16.05	15.85	
28	15.61	15.56	15.69	15.72	15.67	15.58	15.83	15.69	16.10	15.60	15.90	15.83	
29	15.68	15.61	15.68	15.70	15.67	15.60	15.96	15.68	16.10	15.69	15.92	15.61	
30	15.68	15.65	15.67	15.69	15.67	15.59	16.58	15.65	16.20	15.65		15.84	
31		15.63		15.69	15.67		16.20		16.04	15.62		15.59	
MEAN	15.66	15.61	15.66	15.66	15.79	15.66	15.71	15.92	16.75	15.81	16.09	15.88	
MAX	15.75	15.70	15.76	16.07	17.11	15.79	16.58	16.77	20.17	16.27	16.52	15.99	20.17
MIN	15.58	15.56	15.57	15.58	15.61	15.58	15.56	15.65	15.97	15.52	15.90	15.59	15.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 20.71 M (MSL), AT 15.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 15.21 M (MSL), RIVER BED 14.86 M (MSL)
LEFT BANK ELEVATION 20.73 M (MSL)
RIGHT BANK ELEVATION 19.20 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	0.32	1.04	0.64	0.86	0.64	0.44	2.80	3.90	3.20	2.64	2.48	
2	0.44	0.28	0.52	0.56	0.92	0.68	0.40	1.82	27.56	3.10	2.80	2.72	
3	0.32	0.32	0.40	0.56	0.98	0.68	0.40	1.88	22.10	2.72	2.64	2.40	
4	0.40	0.32	0.40	0.52	0.52	0.72	0.36	1.58	6.78	1.70	2.80	2.16	
5	0.36	0.32	0.52	0.56	0.48	0.76	0.40	1.46	9.66	1.40	3.00	2.08	
6	0.80	0.40	1.16	0.52	0.44	0.64	0.32	3.70	143.45	1.40	2.80	1.94	
7	0.80	0.36	0.92	0.52	0.52	1.10	0.32	12.18	63.40	1.22	8.68	2.08	
8	0.76	0.36	0.40	0.52	0.48	1.04	0.40	2.90	23.57	1.16	5.79	2.48	
9	1.10	0.32	0.56	0.52	0.52	0.92	0.40	1.82	17.15	1.64	4.91	2.24	
10	0.86	0.32	0.76	0.52	0.48	0.72	0.44	1.40	12.32	3.90	4.70	2.16	
11	0.76	0.36	0.68	0.52	0.44	0.68	0.36	2.08	8.26	3.00	4.10	2.16	
12	0.76	0.40	0.64	0.48	0.48	0.64	0.40	1.76	22.52	1.64	3.70	2.16	
13	0.76	0.36	0.52	0.44	0.52	0.64	0.36	1.16	47.80	4.50	3.40	2.16	
14	0.80	0.64	0.44	0.32	0.44	0.56	0.44	0.98	19.43	5.57	3.10	2.00	
15	0.76	0.28	0.28	0.36	0.56	0.52	0.32	1.10	13.50	2.56	2.80	1.94	
16	0.76	0.40	0.68	0.40	0.60	0.48	0.40	10.64	9.24	1.70	4.70	1.94	
17	0.72	0.80	0.68	0.36	6.34	0.48	0.80	2.72	7.28	1.52	4.60	2.00	
18	0.86	0.64	0.60	0.40	18.29	0.48	0.72	7.14	7.00	1.34	5.13	1.94	
19	0.80	0.72	0.56	0.56	5.35	0.60	0.76	4.00	6.67	2.24	4.20	1.88	
20	0.76	0.80	0.52	0.44	3.90	1.34	0.72	3.00	4.70	0.12	3.90	1.82	
21	0.76	0.76	0.68	0.44	3.50	1.04	0.24	2.64	4.40	2.40	3.70	1.64	
22	0.36	0.68	0.80	3.50	3.30	0.92	2.00	2.16	2.64	0.20	3.60	1.70	
23	0.44	0.68	1.04	0.86	2.48	0.76	0.98	1.34	2.56	0.16	3.40	1.82	
24	0.44	0.40	0.72	0.76	0.56	0.60	0.86	0.92	6.89	0.08	3.30	1.88	
25	0.36	0.36	0.68	0.80	0.56	0.40	0.98	0.80	4.60	0.44	3.00	1.82	
26	0.32	0.32	0.68	0.76	0.68	0.36	1.10	0.76	3.60	0.44	2.72	1.76	
27	0.36	0.28	0.76	0.80	0.72	0.32	1.22	0.76	3.50	0.48	3.30	1.70	
28	0.44	0.24	0.76	0.92	0.68	0.32	1.58	0.76	3.80	0.40	2.00	1.58	
29	0.72	0.44	0.72	0.80	0.68	0.40	2.48	0.72	3.80	0.76	2.16	0.44	
30	0.72	0.60	0.68	0.76	0.68	0.36	9.52	0.60	4.80	0.60		1.64	
31		0.52		0.76	0.68		4.80		3.20	0.48		0.36	
TOTAL	19.26	14.00	19.80	20.88	57.64	19.80	34.92	77.58	520.08	52.07	107.57	59.08	1002.68 CMSDAY
MEAN	0.64	0.45	0.66	0.67	1.86	0.66	1.13	2.59	16.78	1.68	3.71	1.91	2.74 CMS
MAX	1.10	0.80	1.16	3.50	18.29	1.34	9.52	12.18	143.45	5.57	8.68	2.72	143.45 CMS
MIN	0.32	0.24	0.28	0.32	0.44	0.32	0.24	0.60	2.56	0.08	2.00	0.36	0.08 CMS
RUNOFF	1.664	1.210	1.711	1.804	4.980	1.711	3.017	6.703	44.935	4.499	9.294	5.105	86.632 MCM

MOMENTARY PEAK 209.05 CMS, AT 20.71 M (MSL), AT 15.00 HOURS, ON DEC 6, 1987

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

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG SALA YONG AT BAN PAK YANA, PHATTHALUNG (X.142)

LOCATION — LAT. 7°-31'-13" N., LONG. 100°-03'-34" E., ON RIGHT BANK UPSTREAM SIDE OF THE BRIDGE OF PHATTHALUNG-HAT YAI HIGHWAY AT BAN PAK YANA, AMPHOE MUANG, PHATTHALUNG.

DRAINAGE AREA — FLOOD PLAIN.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM — +11.50 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 100 METERS FROM THE GAGE SITE.

ELEVATION — +15.310 M.(M.S.L.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1983 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE.

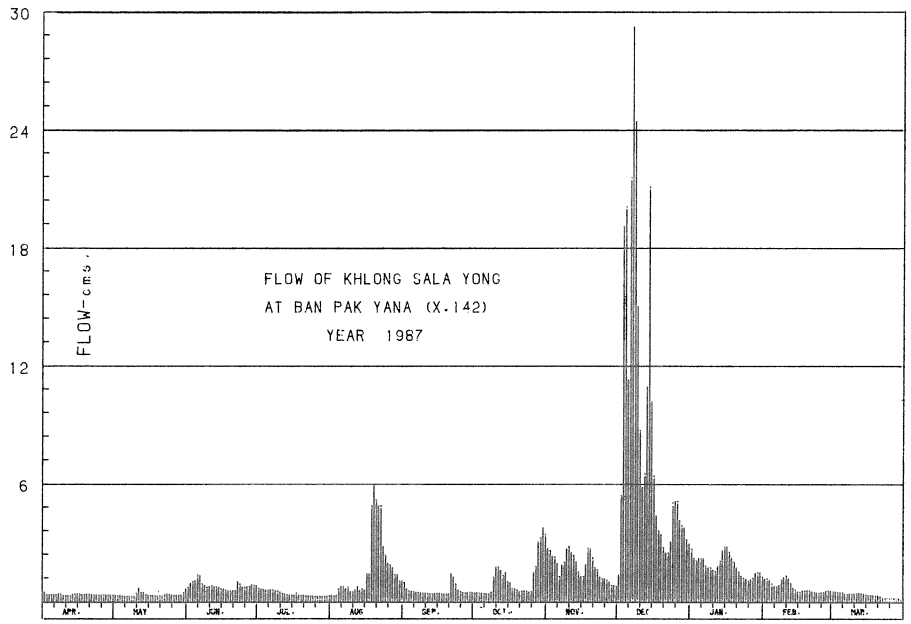
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +14.71 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 2 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.00	12.89	13.13	13.10	12.89	13.24	12.98	13.76	13.39	13.75	13.31	13.01	
2	12.93	12.88	13.22	13.08	12.88	13.09	12.98	13.73	14.19	13.64	13.32	13.01	
3	12.92	12.89	13.26	13.07	12.90	13.04	12.97	13.66	14.81	13.60	13.29	13.00	
4	12.92	12.88	13.28	13.05	13.09	13.02	12.96	13.65	14.83	13.63	13.22	12.99	
5	12.92	12.87	13.40	13.05	13.15	13.02	12.96	13.56	14.59	13.63	13.15	12.99	
6	12.92	12.86	13.38	13.06	13.15	12.99	12.95	13.36	14.86	13.63	13.15	12.94	
7	12.95	12.86	13.21	13.06	13.09	13.00	12.95	13.54	15.01	13.53	13.18	12.94	
8	12.95	12.86	13.17	13.03	13.13	12.98	13.00	13.58	14.92	13.50	13.30	12.95	
9	12.89	12.87	13.13	13.03	13.01	12.97	13.35	13.75	14.70	13.50	13.35	12.95	
10	12.88	12.97	13.15	13.00	13.01	12.97	13.51	13.78	14.45	13.47	13.38	12.95	
11	12.88	13.10	13.17	12.96	13.06	12.96	13.51	13.71	14.23	13.45	13.32	12.96	
12	12.88	13.00	13.14	12.93	13.14	12.95	13.46	13.67	14.29	13.52	13.22	12.97	
13	12.92	13.00	13.14	12.92	13.04	12.95	13.38	13.59	14.57	13.60	13.11	12.96	
14	12.95	12.92	13.12	12.91	13.09	12.96	13.43	13.44	14.85	13.73	13.07	12.95	
15	12.95	12.90	13.09	12.90	13.05	12.96	13.26	13.36	14.53	13.78	13.01	12.92	
16	12.95	12.89	13.08	12.90	13.41	12.96	13.24	13.36	14.28	13.78	13.01	12.90	
17	12.92	12.89	13.06	12.97	13.41	12.95	13.10	13.55	14.05	13.71	13.04	12.90	
18	12.92	12.88	13.03	12.89	14.12	12.94	13.09	13.76	13.93	13.64	13.04	12.89	
19	12.93	12.87	13.03	12.89	14.24	12.93	13.06	13.75	13.90	13.58	13.05	12.88	
20	12.93	12.88	13.04	12.89	14.16	12.94	13.01	13.64	13.77	13.50	13.04	12.88	
21	12.92	12.87	13.04	12.88	14.12	13.41	13.03	13.50	13.70	13.44	13.01	12.85	
22	12.91	12.92	13.25	12.88	14.12	13.35	13.04	13.47	13.70	13.37	12.99	12.80	
23	12.90	12.94	13.21	12.87	13.78	13.21	13.02	13.35	13.83	13.33	12.98	12.79	
24	12.90	12.93	13.13	12.87	13.67	13.05	13.00	13.32	14.14	13.31	12.97	12.79	
25	12.91	12.90	13.13	12.86	13.57	13.02	13.02	13.32	14.15	13.27	12.99	12.79	
26	12.92	12.90	13.14	12.86	13.54	12.99	13.43	13.29	14.15	13.30	13.00	12.80	
27	12.91	12.90	13.15	12.86	13.50	12.98	13.52	13.25	14.02	13.33	13.03	12.79	
28	12.91	12.90	13.19	12.86	13.40	12.98	13.83	13.18	13.98	13.42	13.04	12.78	
29	12.90	12.90	13.18	12.86	13.40	13.00	13.87	13.17	13.96	13.43	13.03	12.77	
30	12.91	12.99	13.17	12.86	13.27	12.99	13.96	13.15	13.85	13.43		12.77	
31		13.08		12.88	13.27		13.90		13.81	13.35		12.78	
MEAN	12.92	12.92	13.16	12.94	13.38	13.03	13.25	13.51	14.24	13.52	13.12	12.89	
MAX	13.00	13.10	13.40	13.10	14.24	13.41	13.96	13.78	15.01	13.78	13.38	13.01	15.01
MIN	12.88	12.86	13.03	12.86	12.88	12.93	12.95	13.15	13.39	13.27	12.97	12.77	12.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.33 M (MSL), AT 6.00 HOURS, ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 11.50 M (MSL), RIVER BED 10.30 M (MSL)
LEFT BANK ELEVATION 14.70 M (MSL)
RIGHT BANK ELEVATION 14.83 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.34	0.76	0.70	0.34	1.00	0.47	2.74	1.38	2.70	1.18	0.52	
2	0.40	0.32	0.95	0.66	0.32	0.68	0.47	2.62	5.43	2.26	1.20	0.52	
3	0.38	0.34	1.05	0.64	0.35	0.58	0.46	2.34	19.10	2.10	1.13	0.50	
4	0.38	0.32	1.10	0.60	0.68	0.54	0.44	2.30	20.10	2.22	0.95	0.48	
5	0.38	0.30	1.40	0.60	0.80	0.54	0.44	1.96	11.31	2.22	0.80	0.48	
6	0.38	0.29	1.35	0.62	0.80	0.48	0.42	1.30	21.60	2.22	0.80	0.41	
7	0.42	0.29	0.93	0.62	0.68	0.50	0.42	1.89	29.25	1.85	0.86	0.41	
8	0.42	0.29	0.84	0.56	0.76	0.47	0.50	2.03	24.60	1.75	1.15	0.42	
9	0.34	0.30	0.76	0.56	0.52	0.46	1.28	2.70	15.05	1.75	1.28	0.42	
10	0.32	0.46	0.80	0.50	0.52	0.46	1.79	2.82	8.73	1.65	1.35	0.42	
11	0.32	0.70	0.84	0.44	0.62	0.44	1.79	2.54	5.85	1.57	1.20	0.44	
12	0.32	0.50	0.78	0.40	0.78	0.42	1.61	2.38	6.54	1.82	0.95	0.46	
13	0.38	0.50	0.78	0.38	0.58	0.42	1.35	2.06	10.94	2.10	0.72	0.44	
14	0.42	0.38	0.74	0.36	0.68	0.44	1.51	1.54	21.10	2.62	0.64	0.42	
15	0.42	0.35	0.68	0.35	0.60	0.44	1.05	1.30	10.20	2.82	0.52	0.38	
16	0.42	0.34	0.66	0.35	1.44	0.44	1.00	1.30	6.42	2.82	0.52	0.35	
17	0.38	0.34	0.62	0.46	1.44	0.42	0.70	1.92	4.38	2.54	0.58	0.35	
18	0.38	0.32	0.56	0.34	4.90	0.41	0.68	2.74	3.62	2.26	0.58	0.34	
19	0.40	0.30	0.56	0.34	5.96	0.40	0.62	2.70	3.45	2.03	0.60	0.32	
20	0.40	0.32	0.58	0.34	5.20	0.41	0.52	2.26	2.78	1.75	0.58	0.32	
21	0.38	0.30	0.58	0.32	4.90	1.44	0.56	1.75	2.50	1.54	0.52	0.28	
22	0.36	0.38	1.03	0.32	4.90	1.28	0.58	1.65	2.50	1.33	0.48	0.20	
23	0.35	0.41	0.93	0.30	2.82	0.93	0.54	1.28	3.06	1.23	0.47	0.19	
24	0.35	0.40	0.76	0.30	2.38	0.60	0.50	1.20	5.05	1.18	0.46	0.19	
25	0.36	0.35	0.76	0.29	1.99	0.54	0.54	1.20	5.13	1.08	0.48	0.19	
26	0.38	0.35	0.78	0.29	1.89	0.48	1.51	1.13	5.13	1.15	0.50	0.20	
27	0.36	0.35	0.80	0.29	1.75	0.47	1.82	1.03	4.15	1.23	0.56	0.19	
28	0.36	0.35	0.88	0.29	1.40	0.47	3.06	0.86	3.89	1.47	0.58	0.18	
29	0.35	0.35	0.86	0.29	1.40	0.50	3.28	0.84	3.78	1.51	0.56	0.17	
30	0.36	0.48	0.84	0.29	1.08	0.48	3.78	0.80	3.18	1.51		0.17	
31		0.66		0.32	1.08		3.45		2.96	1.28		0.18	
TOTAL	11.37	11.68	24.96	13.12	53.56	17.14	37.14	55.18	273.16	57.56	22.20	10.54	587.61 CMSDAY
MEAN	0.38	0.38	0.83	0.42	1.73	0.57	1.20	1.84	8.81	1.86	0.77	0.34	1.61 CMS
MAX	0.50	0.70	1.40	0.70	5.96	1.44	3.78	2.82	29.25	2.82	1.35	0.52	29.25 CMS
MIN	0.32	0.29	0.56	0.29	0.32	0.40	0.42	0.80	1.38	1.08	0.46	0.17	0.17 CMS
RUNOFF	0.982	1.009	2.157	1.134	4.628	1.481	3.209	4.768	23.601	4.973	1.918	0.911	50.770 MCM

MOMENTARY PEAK 52.65 CMS, AT 15.33 M (MSL), AT 6.00 HOURS, ON DEC 7, 1987
RUNOFF YIELD LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

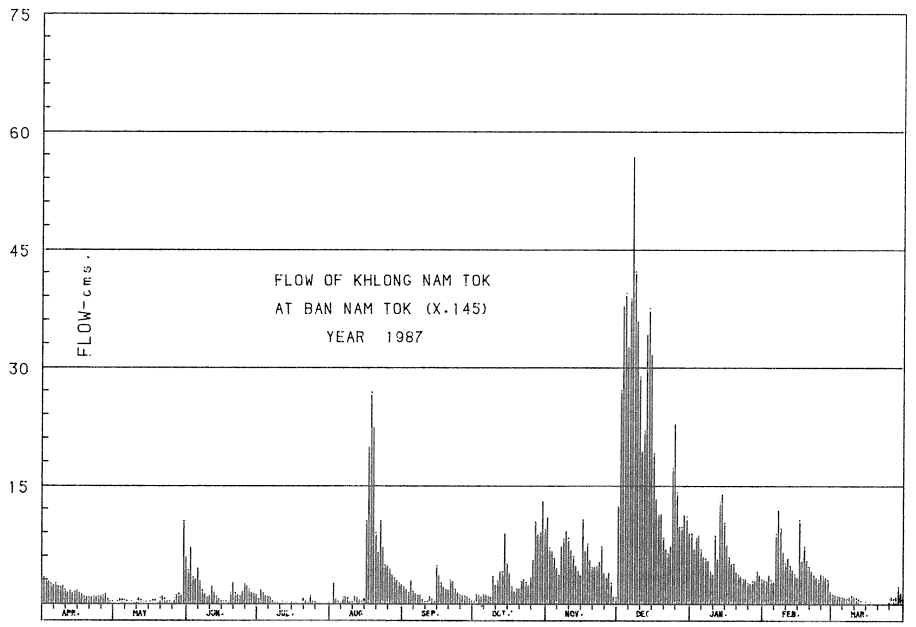
KHLONG NAM TOK AT BAN NAM TOK, PHATTHALUNG (X.145)

LOCATION	LAT. 7°-30'-34" N., LONG. 100°-03'-33" N., ON RIGHT BANK UPSTREAM SIDE OF THE BRIDGE AT BAN NAM TOK, AMPHOE MUANG, PHATTHALUNG.
DRAINAGE AREA	238 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+11.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+15.078 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +14.08 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 68 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.16	11.47	12.26	11.58	11.47	11.97	11.48	12.79	12.88	12.64	12.11	11.75	
2	12.13	11.48	12.50	11.88	12.11	11.90	11.75	12.50	13.69	12.48	12.09	11.72	
3	12.09	11.57	12.16	11.79	11.56	11.81	11.72	12.46	14.15	12.60	12.19	11.69	
4	12.05	11.56	12.13	11.70	11.46	12.10	11.65	12.39	14.22	12.62	12.12	11.67	
5	12.01	11.54	12.28	11.67	11.43	11.85	11.75	12.28	13.93	12.48	12.07	11.65	
6	12.06	11.50	12.10	11.64	11.66	11.77	11.72	12.19	14.19	12.40	12.64	11.62	
7	11.99	11.48	11.88	11.49	11.66	11.72	11.67	12.51	14.80	12.39	12.85	11.59	
8	11.97	11.48	11.76	11.43	11.62	11.72	11.64	12.59	14.32	12.36	12.69	11.65	
9	12.00	11.46	11.64	11.40	11.44	11.55	12.17	12.66	14.07	12.24	12.45	11.71	
10	11.90	11.54	11.69	11.43	11.43	11.48	12.01	12.60	13.77	12.20	12.34	11.65	
11	11.80	11.60	11.98	11.44	11.67	11.46	12.10	12.47	13.30	12.62	12.39	11.62	
12	11.86	11.54	11.81	11.43	11.63	11.67	12.24	12.41	13.44	12.38	12.31	11.56	
13	11.78	11.49	11.68	11.40	11.52	11.57	12.24	12.31	14.00	12.92	12.26	11.50	
14	11.84	11.46	11.57	11.31	11.46	11.46	12.64	12.24	14.14	12.98	12.21	11.49	
15	11.87	11.46	11.49	11.43	11.57	12.32	12.33	12.19	13.89	12.74	12.15	11.47	
16	11.79	11.46	11.48	11.38	12.76	12.19	12.22	12.77	13.29	12.52	12.77	11.45	
17	11.75	11.54	11.47	11.36	13.33	12.06	11.98	12.46	12.94	12.40	12.36	11.44	
18	11.68	11.53	11.46	11.34	13.68	11.96	11.83	12.54	12.81	12.33	12.51	11.40	
19	11.66	11.50	11.82	11.34	13.46	11.90	11.92	12.37	12.82	12.33	12.37	11.39	
20	11.65	11.61	12.06	11.59	12.65	11.88	11.92	12.29	12.60	12.23	12.30	11.36	
21	11.63	11.67	11.80	11.47	12.45	12.12	12.09	12.29	12.48	12.20	12.24	11.36	
22	11.68	11.61	11.72	11.41	12.76	12.09	12.13	12.30	12.44	12.17	12.19	11.36	
23	11.65	11.50	11.69	11.72	12.50	11.91	12.07	12.35	12.51	12.13	12.15	11.34	
24	11.68	11.48	11.82	11.47	12.32	11.79	12.00	12.51	13.19	12.13	12.12	11.41	
25	11.67	11.47	12.04	11.44	12.31	11.73	12.15	12.22	13.48	12.06	12.20	11.57	
26	11.72	11.62	11.99	11.39	12.27	11.70	12.37	12.14	13.00	12.04	12.18	11.64	
27	11.76	11.74	11.91	11.36	12.20	11.70	12.75	12.22	12.70	12.10	12.15	11.59	
28	11.58	11.78	11.80	11.34	12.15	11.67	12.63	12.06	12.70	12.10	12.12	11.64	
29	11.50	11.71	11.77	11.33	12.11	11.57	12.65	11.66	12.81	12.24	11.83	11.98	
30	11.46	12.76	11.73	11.34	12.06	11.50	12.92	11.64	12.80	12.19		11.78	
31		12.40		11.43	12.02		12.68		12.64	12.13		11.59	
MEAN	11.81	11.61	11.85	11.48	12.09	11.80	12.11	12.35	13.35	12.37	12.29	11.57	
MAX	12.16	12.76	12.50	11.88	13.68	12.32	12.92	12.79	14.80	12.98	12.85	11.98	14.80
MIN	11.46	11.46	11.46	11.31	11.43	11.46	11.48	11.64	12.44	12.04	11.83	11.34	11.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 14.94 M (MSL), AT 6.00 HOURS, ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 11.00 M (MSL), RIVER BED 11.19 M (MSL)
LEFT BANK ELEVATION 14.07 M (MSL)
RIGHT BANK ELEVATION 14.62 M (MSL), DRAINAGE AREA 238 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.38	0.34	4.30	0.64	0.34	2.15	0.36	10.96	12.34	8.94	2.98	1.20	
2	3.14	0.36	7.15	1.72	2.98	1.80	1.20	7.15	27.14	6.90	2.84	1.08	
3	2.84	0.61	3.38	1.36	0.58	1.44	1.08	6.65	37.80	8.40	3.62	0.97	
4	2.60	0.58	3.14	1.00	0.32	2.90	0.85	5.78	39.54	8.67	3.06	0.91	
5	2.36	0.52	4.50	0.91	0.26	1.60	1.20	4.50	32.56	6.90	2.72	0.85	
6	2.66	0.40	2.90	0.82	0.88	1.28	1.08	3.62	38.76	5.90	8.94	0.76	
7	2.25	0.36	1.72	0.38	0.88	1.08	0.91	7.28	56.80	5.78	11.88	0.67	
8	2.15	0.36	1.24	0.26	0.76	1.08	0.82	8.27	42.24	5.42	9.62	0.85	
9	2.30	0.32	0.82	0.20	0.28	0.55	3.46	9.21	35.88	4.10	6.53	1.04	
10	1.80	0.52	0.97	0.26	0.26	0.36	2.36	8.40	28.86	3.70	5.18	0.85	
11	1.40	0.70	2.20	0.28	0.91	0.32	2.90	6.78	19.30	8.67	5.78	0.76	
12	1.64	0.52	1.44	0.26	0.79	0.91	4.10	6.03	22.00	5.66	4.82	0.58	
13	1.32	0.38	0.94	0.20	0.46	0.61	4.10	4.82	34.20	12.96	4.30	0.40	
14	1.56	0.32	0.61	0.02	0.32	0.32	8.94	4.10	37.56	13.89	3.80	0.38	
15	1.68	0.32	0.38	0.26	0.61	4.94	5.06	3.62	31.62	10.29	3.30	0.34	
16	1.36	0.32	0.36	0.16	10.56	3.62	3.90	10.70	19.11	7.40	10.70	0.30	
17	1.20	0.52	0.34	0.12	19.87	2.66	2.20	6.65	13.27	5.90	5.42	0.28	
18	0.94	0.49	0.32	0.08	26.92	2.10	1.52	7.65	11.26	5.06	7.28	0.20	
19	0.88	0.40	1.48	0.08	22.40	1.80	1.90	5.54	11.41	5.06	5.54	0.18	
20	0.85	0.73	2.66	0.67	9.07	1.72	1.90	4.60	8.40	4.00	4.70	0.12	
21	0.79	0.91	1.40	0.34	6.53	3.06	2.84	4.60	6.90	3.70	4.10	0.12	
22	0.94	0.73	1.08	0.22	10.56	2.84	3.14	4.70	6.40	3.46	3.62	0.12	
23	0.85	0.40	0.97	1.08	7.15	1.85	2.72	5.30	7.28	3.14	3.30	0.08	
24	0.94	0.36	1.48	0.34	4.94	1.36	2.30	7.28	17.24	3.14	3.06	0.22	
25	0.91	0.34	2.54	0.28	4.82	1.12	3.30	3.90	22.80	2.66	3.70	0.61	
26	1.08	0.76	2.25	0.18	4.40	1.00	5.54	3.22	14.20	2.54	3.54	0.82	
27	1.24	1.16	1.85	0.12	3.70	1.00	10.42	3.90	9.75	2.90	3.30	0.67	
28	0.64	1.32	1.40	0.08	3.30	0.91	8.80	2.66	9.75	2.90	3.06	0.82	
29	0.40	1.04	1.28	0.06	2.98	0.61	9.07	0.88	11.26	4.10	1.52	2.20	
30	0.32	10.56	1.12	0.08	2.66	0.40	12.96	0.82	11.10	3.62		1.32	
31		5.90		0.26	2.42		9.48		8.94	3.14		0.67	
TOTAL	46.42	32.55	56.22	12.72	152.91	47.39	120.41	169.57	685.67	178.90	142.21	20.37	1665.34 CMSDAY
MEAN	1.55	1.05	1.87	0.41	4.93	1.58	3.88	5.65	22.12	5.77	4.90	0.66	4.55 CMS
MAX	3.38	10.56	7.15	1.72	26.92	4.94	12.96	10.96	56.80	13.89	11.88	2.20	56.80 CMS
MIN	0.32	0.32	0.32	0.02	0.26	0.32	0.36	0.82	6.40	2.54	1.52	0.08	0.02 CMS
RUNOFF	4.011	2.812	4.857	1.099	13.211	4.094	10.403	14.651	59.242	15.457	12.287	1.760	143.885 MCM

MOMENTARY PEAK 61.70 CMS, AT 14.94 M (MSL), AT 6.00 HOURS, ON DEC 7, 1987

RUNOFF YIELD 19.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 259.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 7 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +7.013 M. (A.D.)

GAGE READING FREQUENCY — 5-TIME DAILY READINGS AT 06.00, 09.00, 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 — 1976-1977

RATED BY FLOAT — -

RATED BY CURRENT METER — 1976-1977

STABILITY OF CHANNEL REGIMES — STABLE.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 129 DISCHARGE MEASUREMENTS MADE IN 1977.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

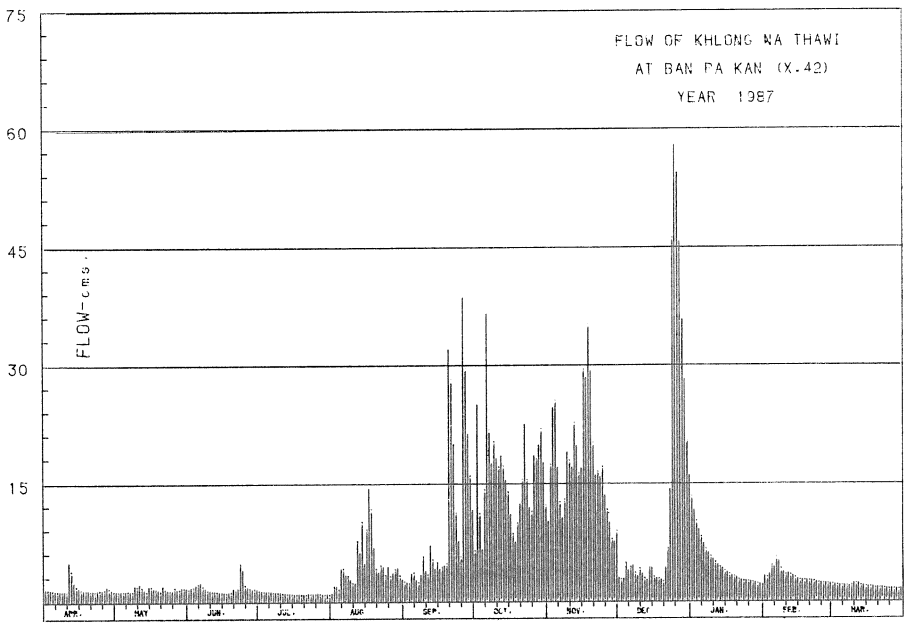
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.85	0.75	0.86	0.80	0.62	1.12	1.88	2.37	1.22	2.77	1.26	1.02	
2	0.85	0.74	0.91	0.77	0.96	1.08	3.91	3.20	1.18	2.55	1.24	1.00	
3	0.83	0.75	0.93	0.75	0.96	1.06	2.50	3.87	1.20	2.38	1.31	0.99	
4	0.82	0.76	0.99	0.74	0.85	1.33	1.90	3.96	1.60	2.24	1.54	0.98	
5	0.79	0.76	1.05	0.73	1.45	1.36	2.88	3.16	1.41	2.13	1.49	0.97	
6	0.78	0.79	1.07	0.72	1.47	1.16	4.85	2.68	1.50	2.01	1.74	0.97	
7	0.77	0.75	0.96	0.70	1.29	1.09	3.62	2.42	1.53	1.91	1.63	0.96	
8	0.75	0.77	0.88	0.69	1.28	1.30	3.21	2.72	1.35	1.83	1.45	0.95	
9	0.75	0.98	0.82	0.68	1.17	1.75	3.48	3.35	1.26	1.76	1.36	0.99	
10	0.75	0.96	0.80	0.67	1.07	1.39	3.28	3.25	1.46	1.69	1.31	1.04	
11	1.62	1.03	0.77	0.65	1.06	1.31	3.17	3.16	1.32	1.62	1.33	1.05	
12	1.41	0.93	0.76	0.63	2.06	1.97	3.31	3.70	1.22	1.55	1.30	1.04	
13	1.09	0.82	0.74	0.61	1.83	1.69	3.18	3.43	1.15	1.50	1.27	0.98	
14	0.96	0.76	0.71	0.60	2.37	1.45	3.00	3.09	1.48	1.46	1.23	0.96	
15	0.89	0.95	0.70	0.59	1.58	1.61	2.84	3.15	1.47	1.40	1.18	0.94	
16	0.85	0.96	0.68	0.56	2.25	1.45	2.48	4.30	1.25	1.36	1.16	0.93	
17	0.82	0.87	0.67	0.58	2.90	1.50	2.18	4.21	1.21	1.32	1.16	0.93	
18	0.81	0.85	0.68	0.58	2.57	1.53	2.03	4.75	1.21	1.28	1.15	0.92	
19	0.81	0.82	0.74	0.57	1.93	1.59	2.35	4.28	1.16	1.26	1.14	0.89	
20	0.79	0.77	0.87	0.56	1.46	4.50	2.65	3.47	1.12	1.23	1.14	0.90	
21	0.79	0.97	0.81	0.56	1.36	4.19	3.01	3.06	1.47	1.18	1.13	0.89	
22	0.76	0.85	0.88	0.61	1.55	3.45	3.68	3.11	1.92	1.15	1.12	0.89	
23	0.80	0.81	1.59	0.60	1.50	2.51	3.01	3.04	2.88	1.13	1.09	0.88	
24	0.83	0.80	1.43	0.59	1.30	2.05	2.59	3.17	5.59	1.13	1.07	0.86	
25	0.81	0.78	1.01	0.60	1.51	1.75	2.53	2.78	6.46	1.12	1.06	0.85	
26	0.85	0.92	0.92	0.63	1.27	5.01	3.31	2.56	6.24	1.11	1.05	0.85	
27	0.94	0.84	0.89	0.61	1.34	4.31	3.27	2.35	5.55	1.09	1.05	0.85	
28	0.89	0.85	0.84	0.58	1.45	3.57	3.44	2.09	4.82	1.07	1.04	0.84	
29	0.83	0.91	0.87	0.57	1.47	3.06	3.63	2.04	4.19	1.04	1.03	0.84	
30	0.79	0.90	0.84	0.58	1.29	2.55	3.22	2.22	3.50	1.02		0.85	
31		0.88		0.57	1.18		2.63		3.06	1.00		1.47	
MEAN	0.88	0.85	0.89	0.63	1.50	2.12	3.00	3.16	2.32	1.53	1.24	0.95	
MAX	1.62	1.03	1.59	0.80	2.90	5.01	4.85	4.75	6.46	2.77	1.74	1.47	6.46
MIN	0.75	0.74	0.67	0.56	0.62	1.06	1.88	2.04	1.12	1.00	1.03	0.84	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.48 M (A.D), AT 9.00 HOURS, ON DEC 25, 1987

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.04 M (A.D)

LEFT BANK ELEVATION — 6.99 M (A.D)

RIGHT BANK ELEVATION — 5.94 M (A.D), DRAINAGE AREA 443 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.58	1.30	1.61	1.40	1.04	2.58	6.48	10.16	3.00	13.36	3.20	2.18	
2	1.58	1.28	1.79	1.34	1.96	2.42	25.01	17.40	2.82	11.60	3.10	2.10	
3	1.50	1.30	1.85	1.30	1.96	2.34	11.20	24.57	2.90	10.24	3.45	2.07	
4	1.47	1.32	2.07	1.28	1.58	3.55	6.60	25.56	4.90	9.12	4.60	2.03	
5	1.38	1.32	2.30	1.26	4.15	3.70	14.24	17.00	3.95	8.24	4.35	2.00	
6	1.36	1.38	2.38	1.24	4.25	2.74	36.55	12.64	4.40	7.37	5.64	2.00	
7	1.34	1.30	1.96	1.20	3.35	2.46	21.82	10.56	4.55	6.67	5.05	1.96	
8	1.30	1.34	1.68	1.18	3.30	3.40	17.50	12.96	3.65	6.18	4.15	1.92	
9	1.30	2.03	1.47	1.16	2.78	5.70	20.28	18.90	3.20	5.76	3.70	2.07	
10	1.30	1.96	1.40	1.14	2.38	3.85	18.20	17.90	4.20	5.35	3.45	2.26	
11	5.00	2.22	1.34	1.10	2.34	3.45	17.10	17.00	3.50	5.00	3.55	2.30	
12	3.95	1.85	1.32	1.06	7.72	7.09	18.50	22.70	3.00	4.65	3.40	2.26	
13	2.46	1.47	1.28	1.02	6.18	5.35	17.20	19.73	2.70	4.40	3.25	2.03	
14	1.96	1.32	1.22	1.00	10.16	4.15	15.40	16.30	4.30	4.20	3.05	1.96	
15	1.71	1.92	1.20	0.98	4.80	4.95	13.92	16.90	4.25	3.90	2.82	1.89	
16	1.58	1.96	1.16	0.92	9.20	4.15	11.04	29.50	3.15	3.70	2.74	1.85	
17	1.47	1.65	1.14	0.96	14.40	4.40	8.64	28.42	2.95	3.50	2.74	1.85	
18	1.43	1.58	1.16	0.96	11.76	4.55	7.51	35.25	2.95	3.30	2.70	1.82	
19	1.43	1.47	1.28	0.94	6.81	4.85	10.00	29.26	2.74	3.20	2.66	1.71	
20	1.38	1.34	1.65	0.92	4.20	32.00	12.40	20.17	2.58	3.05	2.66	1.75	
21	1.38	2.00	1.43	0.92	3.70	28.18	15.50	16.00	4.25	2.82	2.62	1.71	
22	1.32	1.58	1.68	1.02	4.65	19.95	22.48	16.50	6.74	2.70	2.58	1.71	
23	1.40	1.43	4.85	1.00	4.40	11.28	15.50	15.80	14.24	2.62	2.46	1.68	
24	1.50	1.40	4.05	0.98	3.40	7.65	11.92	17.10	46.17	2.62	2.38	1.61	
25	1.43	1.36	2.14	1.00	4.45	5.70	11.44	13.44	57.94	2.58	2.34	1.58	
26	1.58	1.82	1.82	1.06	3.25	38.63	18.50	11.68	54.86	2.54	2.30	1.58	
27	1.89	1.54	1.71	1.02	3.60	29.62	18.10	10.00	45.65	2.46	2.30	1.58	
28	1.71	1.58	1.54	0.96	4.15	21.27	19.84	7.93	36.16	2.38	2.26	1.54	
29	1.50	1.79	1.65	0.94	4.25	16.00	21.93	7.58	28.18	2.26	2.22	1.54	
30	1.38	1.75	1.54	0.96	3.35	11.60	17.60	8.96	20.50	2.18		1.58	
31		1.68		0.94	2.82		12.24		16.00	2.10		4.25	
TOTAL	51.57	49.24	53.67	33.16	146.34	297.56	494.64	527.87	400.38	150.05	91.72	60.37	2356.57 CMSDAY
MEAN	1.72	1.59	1.79	1.07	4.72	9.92	15.96	17.60	12.92	4.84	3.16	1.95	6.44 CMS
MAX	5.00	2.22	4.85	1.40	14.40	38.63	36.55	35.25	57.94	13.36	5.64	4.25	57.94 CMS
MIN	1.30	1.28	1.14	0.92	1.04	2.34	6.48	7.58	2.58	2.10	2.22	1.54	0.92 CMS
RUNOFF	4.456	4.254	4.637	2.865	12.644	25.709	42.737	45.608	34.593	12.964	7.925	5.216	203.608 MCM

MOMENTARY PEAK 58.22 CMS, AT 6.48 M (A.D), AT 9.00 HOURS, ON DEC 25, 1987
RUNOFF YIELD 14.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 131.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

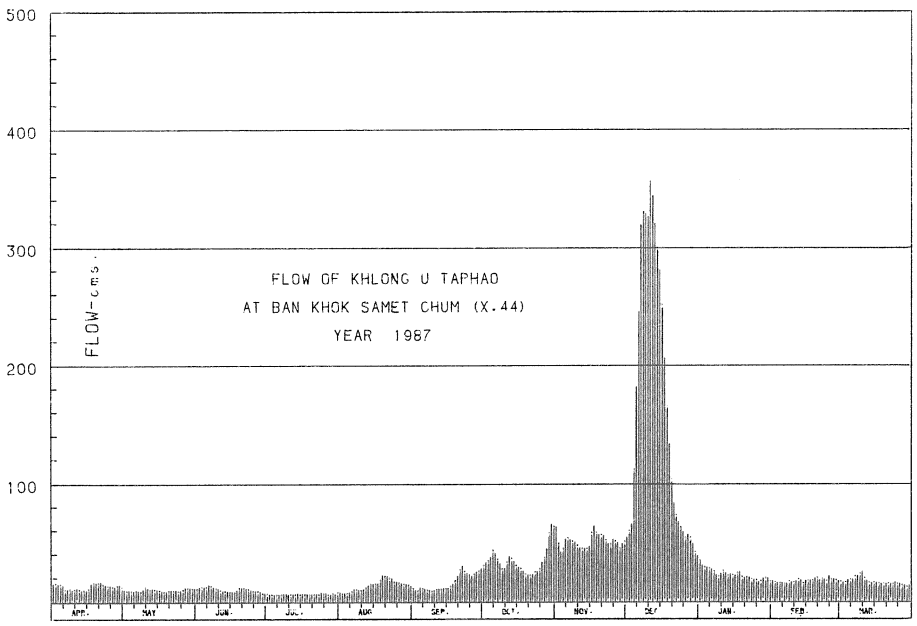
KHLONG U TAPHAO AT BAN KHOK SAMET CHUM, SONGKHLA (X.44)

LOCATION	LAT. 7°-00'-02" N., LONG. 100°-27'-32" E., ON LEFT BANK AT THE BRIDGE OF HAT YAI-RATTAPHUM HIGHWAY, BAN KHOK SAMET CHUM, AMPHOE HAT YAI, SONGKHLA.
DRAINAGE AREA	1,740 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	-0.983 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 200 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+6.937 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	1967-1972, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1972, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	-0.12	-0.07	-0.24	-0.21	-0.05	0.63	1.49	1.26	0.74	0.18	0.17	
2	0.12	-0.14	-0.03	-0.27	-0.24	-0.13	0.69	1.14	1.41	0.62	0.16	0.13	
3	0.08	-0.14	-0.01	-0.27	-0.24	-0.13	0.74	0.94	1.54	0.58	0.12	0.15	
4	0.09	-0.14	-0.02	-0.30	-0.23	-0.04	0.82	1.03	2.54	0.57	0.12	0.21	
5	0.04	-0.16	-0.01	-0.29	-0.21	-0.06	1.00	1.23	3.80	0.55	0.12	0.23	
6	-0.10	-0.13	0.05	-0.29	-0.16	-0.08	0.92	1.25	4.89	0.52	0.10	0.23	
7	-0.09	-0.15	0.04	-0.28	-0.09	-0.12	0.78	1.22	5.97	0.46	0.09	0.32	
8	-0.07	-0.17	-0.02	-0.26	-0.10	-0.12	0.67	1.19	6.18	0.36	0.18	0.33	
9	-0.12	-0.11	-0.06	-0.27	-0.12	-0.15	0.54	1.16	6.11	0.33	0.14	0.40	
10	-0.08	-0.01	-0.07	-0.29	-0.12	-0.13	0.55	1.10	6.12	0.39	0.15	0.45	
11	-0.06	-0.06	-0.12	-0.27	-0.10	-0.09	0.71	1.04	6.51	0.48	0.18	0.27	
12	-0.09	-0.10	-0.15	-0.28	-0.03	-0.08	0.84	1.03	6.37	0.41	0.24	0.20	
13	-0.14	-0.08	-0.14	-0.27	0.03	-0.08	0.80	1.03	5.99	0.35	0.21	0.14	
14	-0.11	-0.09	-0.16	-0.25	0.09	-0.06	0.72	1.03	5.69	0.38	0.12	0.12	
15	-0.14	-0.11	-0.18	-0.27	0.09	-0.06	0.63	1.07	5.40	0.36	0.19	0.14	
16	-0.07	-0.13	-0.17	-0.26	0.10	-0.05	0.58	1.37	4.94	0.34	0.20	0.12	
17	0.10	-0.15	-0.19	-0.26	0.10	0.02	0.55	1.50	4.21	0.42	0.20	0.11	
18	0.14	-0.17	-0.13	-0.26	0.22	0.09	0.47	1.37	3.52	0.45	0.21	0.09	
19	0.13	-0.17	-0.04	-0.28	0.35	0.21	0.39	1.32	2.94	0.31	0.27	0.10	
20	0.14	-0.13	-0.05	-0.28	0.33	0.33	0.36	1.32	2.38	0.28	0.29	0.09	
21	0.15	-0.13	-0.04	-0.27	0.33	0.52	0.36	1.30	1.95	0.30	0.21	0.10	
22	0.09	-0.13	-0.07	-0.27	0.28	0.61	0.37	1.21	1.73	0.29	0.26	0.09	
23	0.05	-0.13	-0.08	-0.27	0.27	0.47	0.45	1.13	1.59	0.25	0.23	0.09	
24	0.03	-0.15	-0.13	-0.21	0.17	0.41	0.46	1.13	1.48	0.22	0.19	0.14	
25	0.03	-0.14	-0.14	-0.24	0.16	0.37	0.54	1.22	1.38	0.22	0.32	0.09	
26	0.00	-0.10	-0.15	-0.24	0.14	0.33	0.70	1.19	1.26	0.15	0.24	0.09	
27	-0.01	-0.04	-0.14	-0.29	0.11	0.39	0.82	1.15	1.32	0.19	0.24	0.05	
28	0.04	-0.04	-0.18	-0.30	0.09	0.45	1.02	1.04	1.26	0.26	0.22	0.03	
29	0.05	-0.05	-0.23	-0.23	0.08	0.48	1.36	1.13	1.13	0.28	0.18	-0.01	
30	-0.01	-0.06	-0.24	-0.27	0.06	0.54	1.54	1.18	0.95	0.27		0.03	
31		-0.06		-0.19	0.02		1.50		0.85	0.18		0.02	
MEAN	0.01	-0.11	-0.10	-0.27	0.04	0.13	0.73	1.18	3.31	0.37	0.19	0.15	
MAX	0.15	-0.01	0.05	-0.19	0.35	0.61	1.54	1.50	6.51	0.74	0.32	0.45	6.51
MIN	-0.14	-0.17	-0.24	-0.30	-0.24	-0.15	0.36	0.94	0.85	0.15	0.09	-0.01	-0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.56 M (MSL), AT 9.00 HOURS, ON DEC 11, 1987
ZERO GAGE AT BOTTOM ELEVATION -0.98 M (MSL), RIVER BED -2.36 M (MSL)
LEFT BANK ELEVATION 7.46 M (MSL)
RIGHT BANK ELEVATION 8.47 M (MSL), DRAINAGE AREA 1740 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.50	10.00	11.25	7.20	7.80	11.75	31.05	63.60	54.40	34.90	17.50	17.25	
2	16.00	9.50	12.25	6.60	7.20	9.75	33.15	49.60	60.40	30.70	17.00	16.25	
3	15.00	9.50	12.75	6.60	7.20	9.75	34.90	41.90	65.60	29.40	16.00	16.75	
4	15.25	9.50	12.50	6.00	7.40	12.00	37.70	45.20	112.28	29.10	16.00	18.30	
5	14.00	9.00	12.75	6.20	7.80	11.50	44.00	53.20	182.00	28.50	16.00	18.90	
6	10.50	9.75	14.25	6.20	9.00	11.00	41.20	54.00	248.36	27.60	15.50	18.90	
7	10.75	9.25	14.00	6.40	10.75	10.00	36.30	52.80	318.99	25.80	15.25	21.60	
8	11.25	8.75	12.50	6.80	10.50	10.00	32.45	51.60	333.60	22.80	17.50	21.90	
9	10.00	10.25	11.50	6.60	10.00	9.25	28.20	50.40	328.70	21.90	16.50	24.00	
10	11.00	12.75	11.25	6.20	10.00	9.75	28.50	48.00	329.40	23.70	16.75	25.50	
11	11.50	11.50	10.00	6.60	10.50	10.75	33.85	45.60	356.70	26.40	17.50	20.10	
12	10.75	10.50	9.25	6.40	12.25	11.00	38.40	45.20	346.90	24.30	19.20	18.00	
13	9.50	11.00	9.50	6.60	13.75	11.00	37.00	45.20	320.33	22.50	18.30	16.50	
14	10.25	10.75	9.00	7.00	15.25	11.50	34.20	45.20	300.23	23.40	16.00	16.00	
15	9.50	10.25	8.50	6.60	15.25	11.50	31.05	46.80	281.00	22.80	17.75	16.50	
16	11.25	9.75	8.75	6.80	15.50	11.75	29.40	58.80	251.56	22.20	18.00	16.00	
17	15.50	9.25	8.25	6.80	15.50	13.50	28.50	64.00	206.01	24.60	18.00	15.75	
18	16.50	8.75	9.75	6.80	18.60	15.25	26.10	58.80	165.92	25.50	18.30	15.25	
19	16.25	8.75	12.00	6.40	22.50	18.30	23.70	56.80	133.50	21.30	20.10	15.50	
20	16.50	9.75	11.75	6.40	21.90	21.90	22.80	56.80	104.04	20.40	20.70	15.25	
21	16.75	9.75	12.00	6.60	21.90	27.60	22.80	56.00	83.50	21.00	18.30	15.50	
22	15.25	9.75	11.25	6.60	20.40	30.35	23.10	52.40	73.59	20.70	19.80	15.25	
23	14.25	9.75	11.00	6.60	20.10	26.10	25.50	49.20	67.60	19.50	18.90	15.25	
24	13.75	9.25	9.75	7.80	17.25	24.30	25.80	49.20	63.20	18.60	17.75	16.50	
25	13.75	9.50	9.50	7.20	17.00	23.10	28.20	52.80	59.20	18.60	21.60	15.25	
26	13.00	10.50	9.25	7.20	16.50	21.90	33.50	51.60	54.40	16.75	19.20	15.25	
27	12.75	12.00	9.50	6.20	15.75	23.70	37.70	50.00	56.80	17.75	19.20	14.25	
28	14.00	12.00	8.50	6.00	15.25	25.50	44.80	45.60	54.40	19.80	18.60	13.75	
29	14.25	11.75	7.40	7.40	15.00	26.40	58.40	49.20	49.20	20.40	17.50	12.75	
30	12.75	11.50	7.20	6.60	14.50	28.20	65.60	51.20	42.25	20.10		13.75	
31		11.50		8.25	13.50		64.00		38.75	17.50		13.50	
TOTAL	397.25	315.75	317.10	207.65	435.80	498.35	1081.85	1540.70	5142.81	718.50	518.70	525.20	11699.66 CMSDAY
MEAN	13.24	10.19	10.57	6.70	14.06	16.61	34.90	51.36	165.90	23.18	17.89	16.94	31.97 CMS
MAX	16.75	12.75	14.25	8.25	22.50	30.35	65.60	64.00	356.70	34.90	21.60	25.50	356.70 CMS
MIN	9.50	8.75	7.20	6.00	7.20	9.25	22.80	41.90	38.75	16.75	15.25	12.75	6.00 CMS
RUNOFF	34.322	27.281	27.397	17.941	37.653	43.057	93.472	133.116	444.339	62.078	44.816	45.377	1010.851 MCM

MOMENTARY PEAK 360.20 CMS, AT 6.56 M (MSL), AT 9.00 HOURS, ON DEC 11, 1987

RUNOFF YIELD 18.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 207.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 — +16.00 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK UNDER THE SANTOL TREE.

ELEVATION — +20.413 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 — 1967-1970, 1972, 1983 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1970, 1972, 1983 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

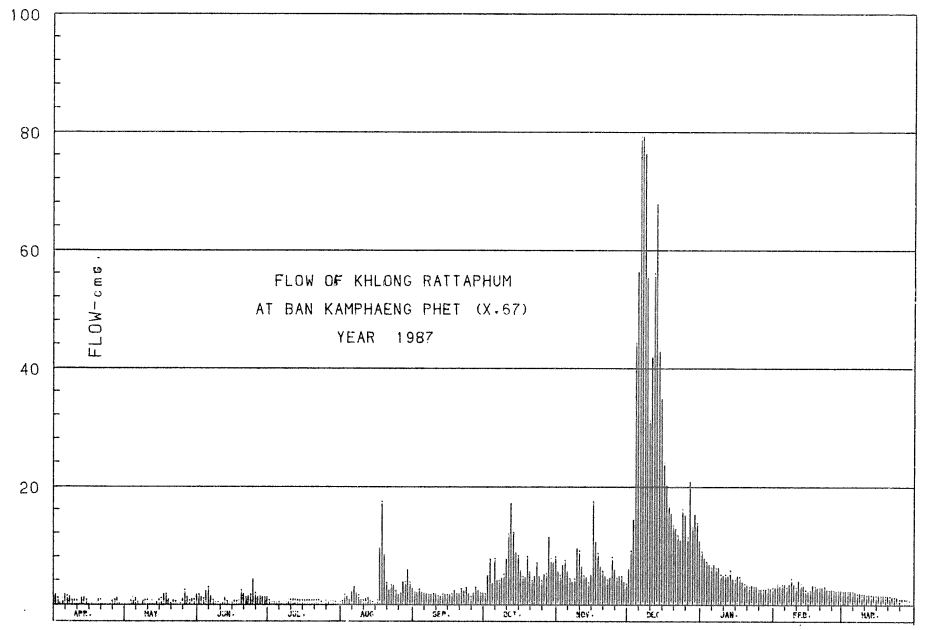
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. FLOW REGULATED BY RATTAPHUM WEIR FOR IRRIGATION ABOUT 10,688 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	16.93	16.68	16.94	16.78	16.75	17.00	16.96	17.37	17.41	17.65	17.08	17.01	
2	16.85	16.72	16.86	16.72	16.94	16.98	17.30	17.31	17.66	17.56	17.15	17.01	
3	16.69	16.87	16.83	16.70	16.87	17.06	17.55	17.46	18.04	17.51	17.10	17.01	
4	16.83	16.87	17.02	16.70	16.78	16.99	17.16	17.54	19.62	17.47	17.14	17.01	
5	16.93	16.85	17.10	16.71	17.00	16.97	17.56	17.37	20.10	17.43	17.14	17.01	
6	16.91	16.73	16.88	16.70	17.10	16.95	17.22	17.25	20.92	17.47	17.09	16.99	
7	16.87	16.62	16.79	16.72	16.96	16.93	17.22	17.19	20.92	17.42	17.15	16.95	
8	16.77	16.75	16.71	16.70	16.92	16.93	17.26	17.25	20.84	17.43	17.25	16.96	
9	16.78	16.78	16.70	16.80	16.78	16.96	17.33	17.69	20.06	17.32	17.14	16.94	
10	16.77	16.79	16.70	16.80	16.77	16.94	17.55	17.66	19.05	17.30	17.09	16.94	
11	16.67	16.74	16.79	16.80	16.81	16.90	17.87	17.44	19.52	17.32	17.21	16.92	
12	16.91	16.76	16.84	16.79	16.83	16.88	18.23	17.30	20.09	17.29	17.16	16.92	
13	16.85	16.66	16.74	16.78	16.75	16.95	17.89	17.27	20.53	17.39	17.11	16.91	
14	16.79	16.79	16.70	16.77	16.70	16.93	17.64	17.18	19.58	17.24	17.04	16.90	
15	16.69	16.80	16.68	16.77	16.70	16.93	17.60	17.31	19.22	17.23	17.00	16.90	
16	16.65	16.84	16.76	16.77	16.78	16.92	17.38	18.25	18.65	17.29	17.03	16.90	
17	16.65	16.94	16.74	16.77	17.69	16.96	17.29	17.77	18.42	17.28	17.12	16.89	
18	16.68	16.96	16.76	16.77	18.25	17.03	17.27	17.63	18.22	17.19	17.11	16.89	
19	16.80	16.79	17.04	16.76	17.61	16.96	17.59	17.44	18.11	17.16	17.07	16.88	
20	16.80	16.66	16.95	16.77	17.18	16.95	17.37	17.38	17.97	17.13	17.08	16.88	
21	16.66	16.77	16.86	16.78	17.03	17.07	17.22	17.29	17.93	17.10	17.08	16.88	
22	16.64	16.74	16.88	16.78	17.14	17.02	17.29	17.23	17.85	17.12	17.10	16.85	
23	16.65	16.70	16.94	16.72	17.13	17.09	17.50	17.26	17.79	17.10	17.04	16.85	
24	16.64	16.67	17.24	16.72	17.03	16.95	17.29	17.58	18.16	17.10	17.03	16.84	
25	16.75	16.81	16.99	16.75	16.92	16.88	17.22	17.40	18.09	17.05	17.04	16.80	
26	16.79	17.05	16.86	16.73	16.97	16.97	17.32	17.26	17.83	17.05	17.03	16.80	
27	16.84	16.87	16.88	16.71	17.19	17.10	17.34	17.29	18.46	17.05	17.01	16.79	
28	16.66	16.77	16.86	16.72	17.20	17.03	17.83	17.29	17.95	17.05	17.02	16.78	
29	16.65	16.81	16.86	16.71	17.40	16.98	17.56	17.19	18.10	17.07	17.02	16.75	
30	16.65	16.81	16.86	16.70	17.19	16.97	17.50	17.16	18.00	17.06		16.68	
31		16.93		16.71	17.07		17.59		17.78	17.08		16.60	
MEAN	16.76	16.79	16.86	16.75	17.05	16.97	17.45	17.40	18.80	17.26	17.09	16.89	
MAX	16.93	17.05	17.24	16.80	18.25	17.10	18.23	18.25	20.92	17.65	17.25	17.01	20.92
MIN	16.64	16.62	16.68	16.70	16.70	16.88	16.96	17.16	17.41	17.05	17.00	16.60	16.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 20.98 M (MSL), AT 18.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 16.00 M (MSL), RIVER BED 16.51 M (MSL)
LEFT BANK ELEVATION 21.37 M (MSL)
RIGHT BANK ELEVATION 21.44 M (MSL), DRAINAGE AREA 272 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.680	0.360	1.740	0.810	0.675	2.100	1.860	5.600	6.020	8.975	2.820	2.190	
2	1.200	0.540	1.260	0.540	1.740	1.980	4.900	5.000	9.110	7.820	3.450	2.190	
3	0.405	1.320	1.080	0.450	1.320	2.640	7.700	6.620	14.380	7.220	3.000	2.190	
4	1.080	1.320	2.280	0.450	0.810	2.040	3.540	7.580	44.300	6.740	3.360	2.190	
5	1.680	1.200	3.000	0.495	2.100	1.920	7.820	5.600	56.300	6.260	3.360	2.190	
6	1.560	0.585	1.380	0.450	3.000	1.800	4.100	4.400	79.180	6.740	2.910	2.040	
7	1.320	0.090	0.855	0.540	1.860	1.680	4.100	3.810	79.180	6.140	3.450	1.800	
8	0.765	0.675	0.495	0.450	1.620	1.680	4.500	4.400	76.860	6.260	4.400	1.860	
9	0.810	0.810	0.450	0.900	0.810	1.860	5.200	9.515	55.300	5.100	3.360	1.740	
10	0.765	0.855	0.450	0.900	0.765	1.740	7.700	9.110	31.200	4.900	2.910	1.740	
11	0.315	0.630	0.855	0.900	0.960	1.500	11.980	6.380	41.880	5.100	4.000	1.620	
12	1.560	0.720	1.140	0.855	1.080	1.380	17.165	4.900	56.050	4.800	3.540	1.620	
13	1.200	0.270	0.630	0.810	0.675	1.800	12.260	4.600	67.870	5.800	3.090	1.560	
14	0.855	0.855	0.450	0.765	0.450	1.680	8.840	3.720	43.320	4.300	2.460	1.500	
15	0.405	0.900	0.360	0.765	0.450	1.680	8.300	5.000	34.840	4.200	2.100	1.500	
16	0.225	1.140	0.720	0.765	0.810	1.620	5.700	17.475	24.050	4.800	2.370	1.500	
17	0.225	1.740	0.630	0.765	9.515	1.860	4.800	10.595	20.140	4.700	3.180	1.440	
18	0.360	1.860	0.720	0.765	17.475	2.370	4.600	8.705	17.010	3.810	3.090	1.440	
19	0.900	0.855	2.460	0.720	8.435	1.860	8.180	6.380	15.395	3.540	2.730	1.380	
20	0.900	0.270	1.800	0.765	3.720	1.800	5.600	5.700	13.380	3.270	2.820	1.380	
21	0.270	0.765	1.260	0.810	2.370	2.730	4.100	4.800	12.820	3.000	2.820	1.380	
22	0.180	0.630	1.380	0.810	3.360	2.280	4.800	4.200	11.700	3.180	3.000	1.200	
23	0.225	0.450	1.740	0.540	3.270	2.910	7.100	4.500	10.865	3.000	2.460	1.200	
24	0.180	0.315	4.300	0.540	2.370	1.800	4.800	8.060	16.120	3.000	2.370	1.140	
25	0.675	0.960	2.040	0.675	1.620	1.380	4.100	5.900	15.105	2.550	2.460	0.900	
26	0.855	2.550	1.260	0.585	1.920	1.920	5.100	4.500	11.420	2.550	2.370	0.900	
27	1.140	1.320	1.380	0.495	3.810	3.000	5.300	4.800	20.820	2.550	2.190	0.855	
28	0.270	0.765	1.260	0.540	3.900	2.370	11.420	4.800	13.100	2.550	2.280	0.810	
29	0.225	0.960	1.260	0.495	5.900	1.980	7.820	3.810	15.250	2.730	2.280	0.675	
30	0.225	0.960	1.260	0.450	3.810	1.920	7.100	3.540	13.800	2.640		0.360	
31		1.680		0.495	2.730		8.180		10.730	2.820		0.000	
TOTAL	22.455	28.350	39.895	20.295	93.330	59.280	208.665	184.000	937.495	141.045	84.630	44.490	1863.930 CMSDAY
MEAN	0.749	0.915	1.330	0.655	3.011	1.976	6.731	6.133	30.242	4.550	2.918	1.435	5.093 CMS
MAX	1.680	2.550	4.300	0.900	17.475	3.000	17.165	17.475	79.180	8.975	4.400	2.190	79.180 CMS
MIN	0.180	0.090	0.360	0.450	0.450	1.380	1.860	3.540	6.020	2.550	2.100	0.000	0.000 CMS
RUNOFF	1.940	2.449	3.447	1.753	8.064	5.122	18.029	15.898	81.000	12.186	7.312	3.844	161.044 MCM

MOMENTARY PEAK 80.92 CMS, AT 20.98 M (MSL), AT 18.00 HOURS, ON DEC 6, 1987

RUNOFF YIELD 18.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 297.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

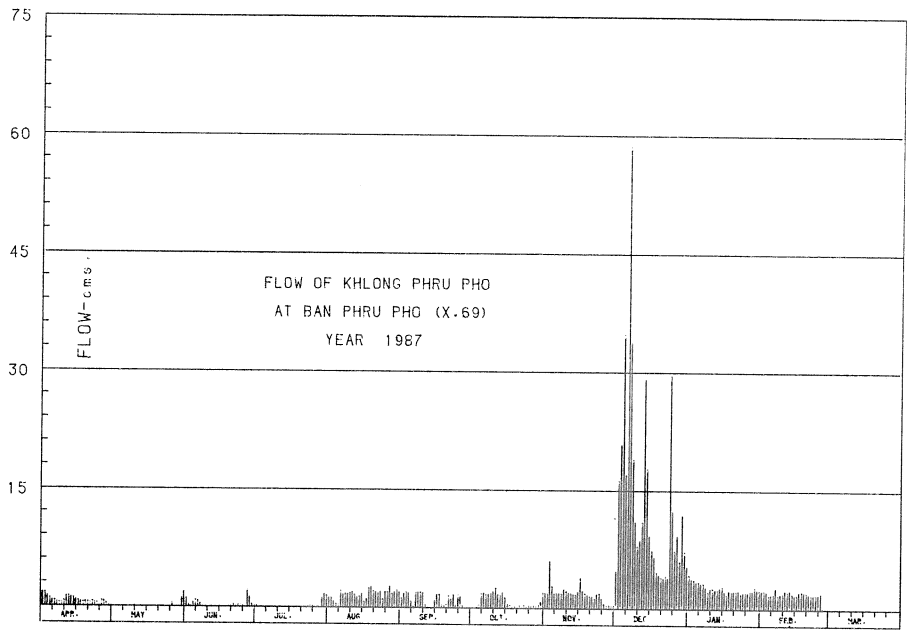
KHLONG PHRU PHO AT BAN PHRU PHO, SONGKHLA (X.69)

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	FLOOD PLAIN.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+24.92 M. (M.S.L..)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE OBSERVER' HOUSE.
ELEVATION	+28.248 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	1967-1972, 1980, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1972, 1980, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.90	25.20	25.75	25.37	25.78	25.78	25.19	25.92	26.25	26.21	25.98	25.29	
2	25.90	25.20	25.47	25.27	25.78	25.90	25.18	25.91	26.99	26.16	25.98	25.29	
3	25.81	25.20	25.28	25.28	25.67	25.93	25.33	26.35	27.22	26.15	25.96	25.29	
4	25.75	25.21	25.61	25.27	25.58	25.91	25.52	26.05	27.81	26.12	25.89	25.29	
5	25.67	25.23	25.69	25.25	25.54	25.68	25.91	25.91	27.03	26.12	25.90	25.29	
6	25.67	25.20	25.67	25.28	25.96	25.40	25.92	25.92	28.57	26.10	25.91	25.29	
7	25.61	25.19	25.54	25.25	25.87	25.93	25.89	25.92	27.77	26.10	26.03	25.28	
8	25.61	25.19	25.35	25.24	25.89	25.93	25.89	25.91	27.13	26.04	25.89	25.29	
9	25.61	25.26	25.26	25.22	25.89	25.93	25.91	26.00	26.69	25.96	25.91	25.29	
10	25.66	25.32	25.23	25.22	25.91	25.92	25.95	25.97	26.49	26.02	25.92	25.28	
11	25.80	25.22	25.23	25.21	25.93	25.50	26.02	25.93	26.54	26.02	25.99	25.26	
12	25.81	25.21	25.23	25.21	25.87	25.06	25.89	25.92	26.69	26.00	25.96	25.28	
13	25.77	25.20	25.23	25.20	25.79	25.02	25.86	25.90	27.59	26.00	25.99	25.20	
14	25.75	25.21	25.27	25.19	25.82	25.26	25.93	25.89	27.07	26.03	25.92	25.18	
15	25.69	25.21	25.27	25.15	25.89	25.75	25.81	25.95	26.58	26.05	25.89	25.17	
16	25.67	25.22	25.26	25.13	25.66	25.87	25.61	26.17	26.45	25.96	25.90	25.17	
17	25.63	25.20	25.22	25.13	25.74	25.88	25.50	25.97	26.39	25.90	25.96	25.17	
18	25.62	25.26	25.26	25.12	26.01	25.51	25.47	25.92	26.24	25.98	25.97	25.18	
19	25.64	25.36	25.27	25.11	26.03	25.41	25.44	25.88	26.21	25.96	25.95	25.17	
20	25.63	25.24	25.38	25.12	25.95	25.54	25.46	25.85	26.18	25.97	25.94	25.17	
21	25.60	25.20	25.47	25.12	25.93	25.85	25.49	25.84	26.17	25.97	25.91	25.17	
22	25.64	25.21	25.39	25.12	25.90	25.75	25.51	25.79	26.20	25.98	25.89	25.17	
23	25.61	25.19	25.45	25.32	25.94	25.88	25.49	25.90	26.17	25.92	25.89	25.17	
24	25.59	25.19	25.49	25.42	25.75	25.51	25.47	25.92	27.61	25.94	25.89	25.16	
25	25.59	25.20	25.34	25.35	25.94	25.88	25.48	25.79	26.77	25.95	25.90	25.18	
26	25.66	25.62	25.29	25.31	25.93	25.82	25.49	25.62	26.45	25.94	25.93	25.20	
27	25.65	25.22	25.99	25.26	26.04	25.43	25.49	25.54	26.58	25.97	25.42	25.25	
28	25.57	25.25	25.79	25.23	25.90	25.25	25.49	25.53	26.35	25.97	25.32	25.35	
29	25.42	25.27	25.50	25.79	25.93	25.26	25.54	25.52	26.74	26.04	25.29	25.44	
30	25.28	25.77	25.45	25.88	25.97	25.24	25.67	25.52	26.44	26.00		25.47	
31		25.92		25.85	25.93		25.93		26.30	25.99		25.30	
MEAN	25.66	25.28	25.42	25.29	25.86	25.63	25.64	25.87	26.76	26.02	25.87	25.25	
MAX	25.90	25.92	25.99	25.88	26.04	25.93	26.02	26.35	28.57	26.21	26.03	25.47	28.57
MIN	25.28	25.19	25.22	25.11	25.54	25.02	25.18	25.52	26.17	25.90	25.29	25.16	25.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 28.89 M (MSL), AT 9.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 24.92 M (MSL), RIVER BED 24.94 M (MSL)
LEFT BANK ELEVATION 30.45 M (MSL)
RIGHT BANK ELEVATION 30.41 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.75	0.00	1.05	0.17	1.17	1.17	0.00	1.87	4.70	4.22	2.23	0.09	
2	1.75	0.00	0.29	0.07	1.17	1.75	0.00	1.81	16.21	3.72	2.23	0.09	
3	1.30	0.00	0.08	0.08	0.73	1.93	0.13	5.95	20.76	3.62	2.11	0.09	
4	1.05	0.01	0.49	0.07	0.42	1.81	0.35	2.75	34.76	3.34	1.70	0.09	
5	0.73	0.03	0.81	0.05	0.38	0.77	1.81	1.81	16.97	3.34	1.75	0.09	
6	0.73	0.00	0.73	0.08	2.11	0.20	1.87	1.87	58.62	3.15	1.81	0.09	
7	0.49	0.00	0.38	0.05	1.60	1.93	1.70	1.87	33.72	3.15	2.59	0.08	
8	0.49	0.00	0.15	0.04	1.70	1.93	1.70	1.81	18.92	2.67	1.70	0.09	
9	0.49	0.06	0.06	0.02	1.70	1.93	1.81	2.35	10.94	2.11	1.81	0.09	
10	0.69	0.12	0.03	0.02	1.81	1.87	2.05	2.17	7.86	2.51	1.87	0.08	
11	1.25	0.02	0.03	0.01	1.93	0.33	2.51	1.93	8.60	2.51	2.29	0.06	
12	1.30	0.01	0.03	0.01	1.60	0.00	1.70	1.87	10.94	2.35	2.11	0.08	
13	1.13	0.00	0.03	0.00	1.21	0.00	1.55	1.75	29.06	2.35	2.29	0.00	
14	1.05	0.01	0.07	0.00	1.35	0.06	1.93	1.70	17.73	2.59	1.87	0.00	
15	0.81	0.01	0.07	0.00	1.70	1.05	1.30	2.05	9.20	2.75	1.70	0.00	
16	0.73	0.02	0.06	0.00	0.69	1.60	0.49	3.81	7.30	2.11	1.75	0.00	
17	0.57	0.00	0.02	0.00	1.01	1.65	0.33	2.17	6.47	1.75	2.11	0.00	
18	0.53	0.06	0.06	0.00	2.43	0.34	0.29	1.87	4.58	2.23	2.17	0.00	
19	0.61	0.16	0.07	0.00	2.59	0.21	0.25	1.65	4.22	2.11	2.05	0.00	
20	0.57	0.04	0.18	0.00	2.05	0.38	0.28	1.50	3.91	2.17	1.99	0.00	
21	0.45	0.00	0.29	0.00	1.93	1.50	0.31	1.45	3.81	2.17	1.81	0.00	
22	0.61	0.01	0.19	0.00	1.75	1.05	0.34	1.21	4.10	2.23	1.70	0.00	
23	0.49	0.00	0.26	0.12	1.99	1.65	0.31	1.75	3.81	1.87	1.70	0.00	
24	0.44	0.00	0.31	0.23	1.05	0.34	0.29	1.87	29.56	1.99	1.70	0.00	
25	0.44	0.00	0.14	0.15	1.99	1.65	0.30	1.21	12.29	2.05	1.75	0.00	
26	0.69	0.53	0.09	0.11	1.93	1.35	0.31	0.53	7.30	1.99	1.93	0.00	
27	0.65	0.02	2.29	0.06	2.67	0.24	0.31	0.38	9.20	2.17	0.23	0.05	
28	0.41	0.05	1.21	0.03	1.75	0.05	0.31	0.36	5.95	2.17	0.12	0.15	
29	0.23	0.07	0.33	1.21	1.93	0.06	0.38	0.35	11.78	2.67	0.09	0.25	
30	0.08	1.13	0.26	1.65	2.17	0.04	0.73	0.35	7.16	2.35		0.29	
31		1.87		1.50	1.93		1.93		5.30	2.29		0.10	
TOTAL	22.51	4.23	10.06	5.73	50.44	28.84	27.57	54.02	425.73	78.70	51.16	1.86	760.85 CMSDAY
MEAN	0.75	0.14	0.34	0.18	1.63	0.96	0.89	1.80	13.73	2.54	1.76	0.06	2.08 CMS
MAX	1.75	1.87	2.29	1.65	2.67	1.93	2.51	5.95	58.62	4.22	2.59	0.29	58.62 CMS
MIN	0.08	0.00	0.02	0.00	0.38	0.00	0.00	0.35	3.81	1.75	0.09	0.00	0.00 CMS
RUNOFF	1.945	0.365	0.869	0.495	4.358	2.492	2.382	4.667	36.783	6.800	4.420	0.161	65.737 MCM

MOMENTARY PEAK 70.33 CMS, AT 28.89 M (MSL), AT 9.00 HOURS, ON DEC 6, 1987

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

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

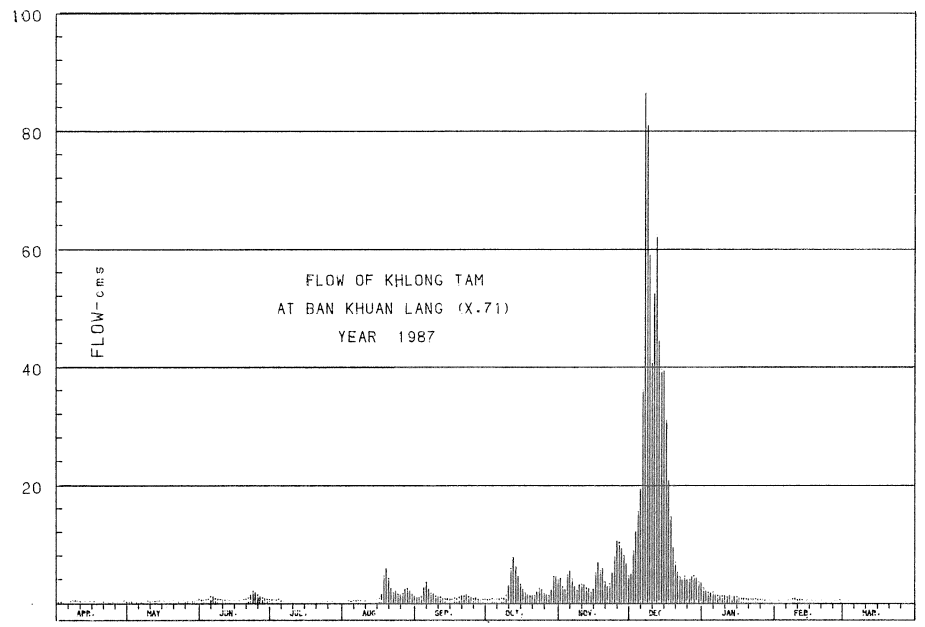
KHLONG TAM AT KHUAN LANG(3), SONGKHLA (X.71)

LOCATION	LAT. 6°-59'-55" N., LONG. 100°-25'-58" E., ON RIGHT BANK DOWNSTREAM SIDE OF THE BRIDGE OF PHET KASEM HIGHWAY AT KHUAN LANG(3), AMPHOE HAT YAI, SONGKHLA.
DRAINAGE AREA	127 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.67 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 40 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+7.211 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	1967-1972, 1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1972, 1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL.1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.25	2.26	2.45	2.48	2.26	2.63	2.49	3.61	3.75	3.22	2.41	2.37	
2	2.25	2.25	2.44	2.47	2.30	2.64	2.50	3.27	4.52	3.04	2.39	2.39	
3	2.21	2.24	2.48	2.46	2.37	2.73	2.57	3.11	5.08	3.01	2.38	2.38	
4	2.21	2.23	2.53	2.54	2.30	3.22	2.46	3.74	5.58	2.93	2.37	2.32	
5	2.25	2.23	2.72	2.39	2.39	3.47	2.52	3.86	6.06	3.02	2.37	2.38	
6	2.32	2.23	2.70	2.37	2.36	3.14	2.54	3.58	7.28	2.80	2.39	2.25	
7	2.38	2.22	2.60	2.37	2.43	2.95	2.61	3.27	8.06	2.80	2.44	2.16	
8	2.39	2.26	2.53	2.35	2.40	2.88	2.58	3.09	8.00	2.73	2.53	2.19	
9	2.37	2.36	2.50	2.35	2.41	2.76	2.82	3.36	7.71	2.76	2.56	2.20	
10	2.31	2.26	2.47	2.35	2.37	2.69	3.32	3.38	7.42	2.76	2.47	2.22	
11	2.30	2.34	2.44	2.35	2.34	2.69	3.94	3.37	7.62	2.68	2.47	2.17	
12	2.31	2.32	2.44	2.33	2.42	2.56	4.32	3.21	7.76	2.76	2.46	2.15	
13	2.29	2.37	2.43	2.26	2.37	2.56	4.01	3.17	7.48	2.67	2.42	2.21	
14	2.35	2.39	2.43	2.30	2.46	2.56	3.68	2.99	7.39	2.70	2.42	2.19	
15	2.35	2.40	2.41	2.29	2.45	2.52	3.39	3.14	7.38	2.70	2.40	2.17	
16	2.30	2.36	2.42	2.29	2.58	2.53	3.14	3.81	7.07	2.58	2.37	2.16	
17	2.26	2.29	2.38	2.28	2.84	2.62	2.97	4.15	6.22	2.57	2.38	2.16	
18	2.26	2.30	2.43	2.28	3.70	2.55	2.81	3.87	5.45	2.57	2.37	2.14	
19	2.31	2.35	2.50	2.28	3.94	2.68	2.75	3.94	4.63	2.54	2.37	2.17	
20	2.25	2.41	2.53	2.28	3.61	2.76	2.75	3.49	4.16	2.52	2.38	2.13	
21	2.25	2.30	2.63	2.28	3.18	2.76	2.80	3.27	3.82	2.53	2.41	2.12	
22	2.23	2.28	2.80	2.28	2.96	2.86	3.00	3.41	3.66	2.52	2.44	2.11	
23	2.23	2.30	3.07	2.28	3.05	2.71	3.20	3.79	3.55	2.54	2.39	2.09	
24	2.23	2.41	2.98	2.28	2.88	2.64	3.12	4.34	3.69	2.49	2.33	2.10	
25	2.25	2.36	2.84	2.31	2.80	2.56	2.92	4.83	3.55	2.50	2.33	2.11	
26	2.27	2.36	2.70	2.29	2.92	2.61	2.82	4.80	3.57	2.48	2.32	2.14	
27	2.25	2.36	2.64	2.27	3.14	2.51	2.79	4.60	3.67	2.43	2.38	2.16	
28	2.26	2.36	2.56	2.26	3.19	2.46	3.10	4.38	3.70	2.39	2.44	2.12	
29	2.37	2.39	2.53	2.26	3.05	2.50	3.67	4.11	3.62	2.41	2.37	2.12	
30	2.24	2.42	2.50	2.26	2.88	2.52	3.67	3.70	3.48	2.39		2.16	
31		2.54		2.26	2.73		3.55		3.45	2.38		2.21	
MEAN	2.28	2.33	2.57	2.33	2.74	2.71	3.06	3.69	5.43	2.66	2.41	2.19	
MAX	2.39	2.54	3.07	2.54	3.94	3.47	4.32	4.83	8.06	3.22	2.56	2.39	8.06
MIN	2.21	2.22	2.38	2.26	2.26	2.46	2.46	2.99	3.45	2.38	2.32	2.09	2.09

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.10 M (MSL), AT 12.00 HOURS. ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.67 M (MSL), RIVER BED 1.60 M (MSL)
LEFT BANK ELEVATION 8.73 M (MSL)
RIGHT BANK ELEVATION 3.19 M (MSL), DRAINAGE AREA 127 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.29	0.60	0.66	0.29	0.98	0.68	4.25	4.95	2.67	0.52	0.46	
2	0.27	0.27	0.58	0.64	0.35	1.00	0.70	2.84	8.86	2.04	0.49	0.49	
3	0.21	0.26	0.66	0.62	0.46	1.23	0.84	2.29	12.12	1.93	0.47	0.47	
4	0.21	0.24	0.76	0.78	0.35	2.67	0.62	4.90	15.56	1.73	0.46	0.38	
5	0.27	0.24	1.20	0.49	0.49	3.62	0.74	5.50	19.34	1.97	0.46	0.47	
6	0.38	0.24	1.15	0.46	0.44	2.39	0.78	4.11	36.16	1.40	0.49	0.27	
7	0.47	0.23	0.90	0.46	0.56	1.78	0.93	2.84	86.45	1.40	0.58	0.16	
8	0.49	0.29	0.76	0.42	0.50	1.60	0.86	2.22	81.50	1.23	0.76	0.19	
9	0.46	0.44	0.70	0.42	0.52	1.30	1.45	3.16	58.97	1.30	0.82	0.20	
10	0.36	0.29	0.64	0.42	0.46	1.13	3.02	3.23	41.10	1.30	0.64	0.23	
11	0.35	0.41	0.58	0.42	0.41	1.13	5.90	3.20	52.45	1.10	0.64	0.17	
12	0.36	0.38	0.58	0.39	0.54	0.82	7.80	2.64	62.60	1.30	0.62	0.15	
13	0.33	0.46	0.56	0.29	0.46	0.82	6.25	2.50	44.40	1.08	0.54	0.21	
14	0.42	0.49	0.56	0.35	0.62	0.82	4.60	1.88	39.68	1.15	0.54	0.19	
15	0.42	0.50	0.52	0.33	0.60	0.74	3.27	2.39	39.36	1.15	0.50	0.17	
16	0.35	0.44	0.54	0.33	0.86	0.76	2.39	5.25	31.07	0.86	0.46	0.16	
17	0.29	0.33	0.47	0.32	1.50	0.95	1.83	6.95	20.78	0.84	0.47	0.16	
18	0.29	0.35	0.56	0.32	4.70	0.80	1.43	5.55	14.65	0.84	0.46	0.14	
19	0.36	0.42	0.70	0.32	5.90	1.10	1.28	5.90	9.46	0.78	0.46	0.17	
20	0.27	0.52	0.76	0.32	4.25	1.30	1.28	3.71	7.00	0.74	0.47	0.13	
21	0.27	0.35	0.98	0.32	2.53	1.30	1.40	2.84	5.30	0.76	0.52	0.12	
22	0.24	0.32	1.40	0.32	1.80	1.55	1.90	3.35	4.50	0.74	0.58	0.11	
23	0.24	0.35	2.15	0.32	2.08	1.18	2.60	5.15	3.98	0.78	0.49	0.09	
24	0.24	0.52	1.85	0.32	1.60	1.00	2.32	7.90	4.65	0.68	0.39	0.10	
25	0.27	0.44	1.50	0.36	1.40	0.82	1.70	10.58	3.98	0.70	0.39	0.11	
26	0.30	0.44	1.15	0.33	1.70	0.93	1.45	10.40	4.07	0.66	0.38	0.14	
27	0.27	0.44	1.00	0.30	2.39	0.72	1.38	9.30	4.55	0.56	0.47	0.16	
28	0.29	0.44	0.82	0.29	2.57	0.62	2.25	8.10	4.70	0.49	0.58	0.12	
29	0.46	0.49	0.76	0.29	2.08	0.70	4.55	6.75	4.30	0.52	0.46	0.12	
30	0.26	0.54	0.70	0.29	1.60	0.74	4.55	4.70	3.66	0.49		0.16	
31		0.78		0.29	1.23		3.98		3.52	0.47		0.21	
TOTAL	9.67	12.20	26.09	12.19	45.24	36.50	74.73	144.38	733.67	33.66	15.11	6.41	1149.85 CMSDAY
MEAN	0.32	0.39	0.87	0.39	1.46	1.22	2.41	4.81	23.67	1.09	0.52	0.21	3.14 CMS
MAX	0.49	0.78	2.15	0.78	5.90	3.62	7.80	10.58	86.45	2.67	0.82	0.49	86.45 CMS
MIN	0.21	0.23	0.47	0.29	0.29	0.62	0.62	1.88	3.52	0.47	0.38	0.09	0.09 CMS
RUNOFF	0.835	1.054	2.254	1.053	3.909	3.154	6.457	12.474	63.389	2.908	1.306	0.554	99.347 MCM

MOMENTARY PEAK 89.75 CMS, AT 8.10 M (MSL), AT 12.00 HOURS, ON DEC 7, 1987

RUNOFF YIELD 24.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 706.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG U TAPHAO AT BAN BANG SALA, SONGKHLA (X.30)

LOCATION — LAT. 6°-55'-39" N., LONG. 100°-26'-37" E., ON LEFT BANK ABOUT 5 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY 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 — +0.680 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 28 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +8.335 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 — 1971 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1971-1972, 1979 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971-1972, 1979 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

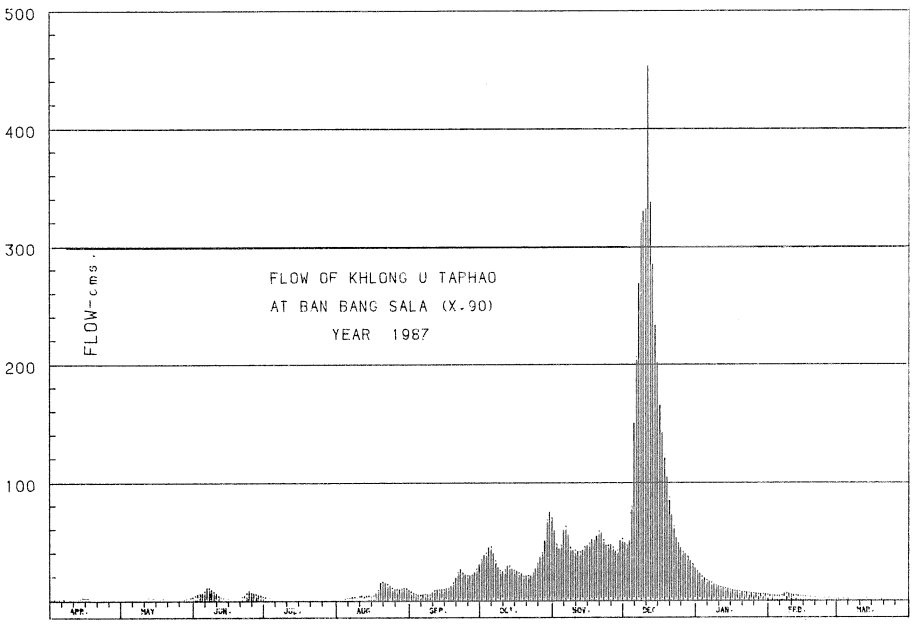
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +8.09 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 84 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL). WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.22	1.24	1.72	1.58	1.16	2.14	4.14	5.26	4.84	3.54	1.79	1.43	
2	1.21	1.22	1.85	1.54	1.18	2.00	4.32	4.79	4.74	3.39	1.76	1.42	
3	1.20	1.20	1.93	1.52	1.33	1.90	4.42	4.59	4.89	3.24	1.73	1.40	
4	1.21	1.18	1.97	1.46	1.33	1.83	4.64	4.74	6.08	3.13	1.70	1.39	
5	1.25	1.17	2.19	1.42	1.44	1.80	4.69	5.27	7.97	3.01	1.68	1.37	
6	1.23	1.17	2.50	1.37	1.45	1.86	4.41	5.41	8.57	2.93	1.76	1.37	
7	1.18	1.18	2.50	1.33	1.61	1.90	4.08	5.10	8.94	2.87	1.90	1.36	
8	1.19	1.21	2.32	1.30	1.60	1.86	3.75	4.65	9.17	2.75	1.98	1.35	
9	1.18	1.24	2.14	1.28	1.54	1.83	3.58	4.52	9.20	2.67	1.90	1.37	
10	1.20	1.28	1.95	1.28	1.65	2.05	3.52	4.54	9.22	2.62	1.82	1.38	
11	1.22	1.38	1.71	1.27	1.75	2.26	3.62	4.48	9.61	2.56	1.78	1.38	
12	1.25	1.47	1.58	1.23	1.63	2.31	3.82	4.46	9.24	2.50	1.77	1.47	
13	1.35	1.44	1.49	1.22	1.73	2.32	3.83	4.52	9.02	2.45	1.73	1.41	
14	1.48	1.38	1.44	1.21	1.74	2.35	3.66	4.68	8.76	2.40	1.68	1.38	
15	1.46	1.32	1.39	1.17	1.63	2.36	3.59	4.71	8.53	2.35	1.66	1.37	
16	1.46	1.30	1.38	1.16	1.75	2.43	3.53	4.82	8.21	2.28	1.62	1.34	
17	1.37	1.30	1.36	1.16	1.96	2.48	3.46	4.94	7.83	2.24	1.60	1.32	
18	1.28	1.37	1.35	1.16	2.31	2.61	3.39	4.91	7.42	2.19	1.58	1.31	
19	1.26	1.39	1.33	1.17	2.86	2.86	3.26	5.06	6.90	2.15	1.56	1.29	
20	1.23	1.33	1.45	1.16	2.91	3.14	3.26	5.25	6.35	2.12	1.53	1.29	
21	1.21	1.31	1.62	1.15	2.83	3.49	3.29	5.17	5.80	2.10	1.51	1.29	
22	1.21	1.30	1.76	1.14	2.78	3.65	3.26	4.93	5.43	2.05	1.49	1.32	
23	1.20	1.34	2.01	1.14	2.65	3.44	3.44	4.74	5.01	2.01	1.52	1.29	
24	1.20	1.34	2.25	1.16	2.49	3.33	3.67	4.73	4.81	1.98	1.50	1.27	
25	1.21	1.31	2.02	1.18	2.36	3.29	3.97	4.77	4.63	1.95	1.50	1.27	
26	1.21	1.30	1.98	1.17	2.39	3.29	4.24	4.67	4.47	1.93	1.49	1.26	
27	1.23	1.36	1.89	1.16	2.33	3.31	4.43	4.49	4.38	1.90	1.48	1.24	
28	1.23	1.46	1.81	1.18	2.42	3.46	4.90	4.53	4.26	1.88	1.46	1.23	
29	1.25	1.45	1.77	1.20	2.47	3.66	5.64	4.90	4.08	1.90	1.44	1.23	
30	1.26	1.47	1.65	1.18	2.44	3.91	5.90	4.98	3.91	1.87		1.22	
31		1.59		1.16	2.30		5.71		3.69	1.83		1.21	
MEAN	1.25	1.32	1.81	1.25	2.00	2.64	4.05	4.82	6.64	2.41	1.65	1.33	
MAX	1.48	1.59	2.50	1.58	2.91	3.91	5.90	5.41	9.61	3.54	1.98	1.47	9.61
MIN	1.18	1.17	1.33	1.14	1.16	1.80	3.26	4.46	3.69	1.83	1.44	1.21	1.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.63 M (MSL), AT 9.00 HOURS, ON DEC 11, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.68 M (MSL), RIVER BED 0.74 M (MSL)
LEFT BANK ELEVATION 8.66 M (MSL)
RIGHT BANK ELEVATION 8.08 M (MSL), DRAINAGE AREA 1562 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.00	1.10	4.20	3.04	0.70	7.70	34.86	59.24	49.16	25.10	4.78	2.05	
2	0.95	1.00	5.28	2.72	0.80	6.53	38.40	47.99	46.94	22.85	4.53	2.00	
3	0.90	0.90	5.95	2.56	1.55	5.70	40.40	43.80	50.36	20.60	4.28	1.90	
4	0.95	0.80	6.28	2.20	1.55	5.12	44.84	46.94	79.76	19.02	4.03	1.85	
5	1.15	0.75	8.12	2.00	2.10	4.87	45.89	59.48	150.23	17.34	3.87	1.75	
6	1.05	0.75	11.00	1.75	2.15	5.37	40.20	62.84	206.40	16.22	4.53	1.75	
7	0.80	0.80	11.00	1.55	3.28	5.70	33.72	55.40	268.60	15.38	5.70	1.70	
8	0.85	0.95	9.28	1.40	3.20	5.37	28.25	45.05	322.50	13.80	6.37	1.65	
9	0.80	1.10	7.70	1.30	2.72	5.12	25.70	42.40	330.00	12.84	5.70	1.75	
10	0.90	1.30	6.12	1.30	3.62	6.95	24.80	42.80	335.20	12.24	5.03	1.80	
11	1.00	1.80	4.12	1.25	4.45	8.74	26.30	41.60	453.50	11.60	4.70	1.80	
12	1.15	2.25	3.04	1.05	3.45	9.19	29.32	41.20	340.40	11.00	4.62	2.25	
13	1.65	2.10	2.35	1.00	4.28	9.28	29.48	42.40	285.00	10.50	4.28	1.95	
14	2.30	1.80	2.10	0.95	4.37	9.55	26.90	45.68	235.60	10.00	3.87	1.80	
15	2.20	1.50	1.85	0.75	3.45	9.64	25.85	46.31	201.60	9.55	3.70	1.75	
16	2.20	1.40	1.80	0.70	4.45	10.30	24.95	48.68	167.95	8.92	3.37	1.60	
17	1.75	1.40	1.70	0.70	6.20	10.80	23.90	51.56	141.97	8.56	3.20	1.50	
18	1.30	1.75	1.65	0.70	9.19	12.12	22.85	50.84	123.60	8.12	3.04	1.45	
19	1.20	1.85	1.55	0.75	15.24	15.24	20.90	54.44	104.50	7.78	2.88	1.35	
20	1.05	1.55	2.15	0.70	15.94	19.16	20.90	59.00	87.50	7.53	2.64	1.35	
21	0.95	1.45	3.37	0.65	14.82	24.35	21.35	57.08	72.40	7.37	2.48	1.35	
22	0.95	1.40	4.53	0.60	14.16	26.75	20.90	51.32	63.32	6.95	2.35	1.50	
23	0.90	1.60	6.62	0.60	12.60	23.60	23.60	46.94	53.24	6.62	2.56	1.35	
24	0.90	1.60	8.65	0.70	10.90	21.95	27.05	46.73	48.44	6.37	2.40	1.25	
25	0.95	1.45	6.70	0.80	9.64	21.35	31.72	47.57	44.63	6.12	2.40	1.25	
26	0.95	1.40	6.37	0.75	9.91	21.35	36.80	45.47	41.40	5.95	2.35	1.20	
27	1.05	1.70	5.62	0.70	9.37	21.65	40.60	41.80	39.60	5.70	2.30	1.10	
28	1.05	2.20	4.95	0.80	10.20	23.90	50.60	42.60	37.20	5.53	2.20	1.05	
29	1.15	2.15	4.62	0.90	10.70	26.90	68.40	50.60	33.72	5.70	2.10	1.05	
30	1.20	2.25	3.62	0.80	10.40	30.76	75.00	52.52	30.76	5.45		1.00	
31		3.12		0.70	9.10		70.15		27.35	5.12		0.95	
TOTAL	35.20	47.17	152.29	36.37	214.49	415.01	1074.58	1470.28	4472.83	335.83	106.26	48.05	8408.36 CMSDAY
MEAN	1.17	1.52	5.08	1.17	6.92	13.83	34.66	49.01	144.28	10.83	3.66	1.55	22.97 CMS
MAX	2.30	3.12	11.00	3.04	15.94	30.76	75.00	62.84	453.50	25.10	6.37	2.25	453.50 CMS
MIN	0.80	0.75	1.55	0.60	0.70	4.87	20.90	41.20	27.35	5.12	2.10	0.95	0.60 CMS
RUNOFF	3.041	4.075	13.158	3.142	18.532	35.857	92.844	127.032	386.453	29.016	9.181	4.152	726.482 MCM

MOMENTARY PEAK 460.50 CMS, AT 9.63 M (MSL), AT 9.00 HOURS, ON DEC 11, 1987

RUNOFF YIELD 14.71 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 294.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

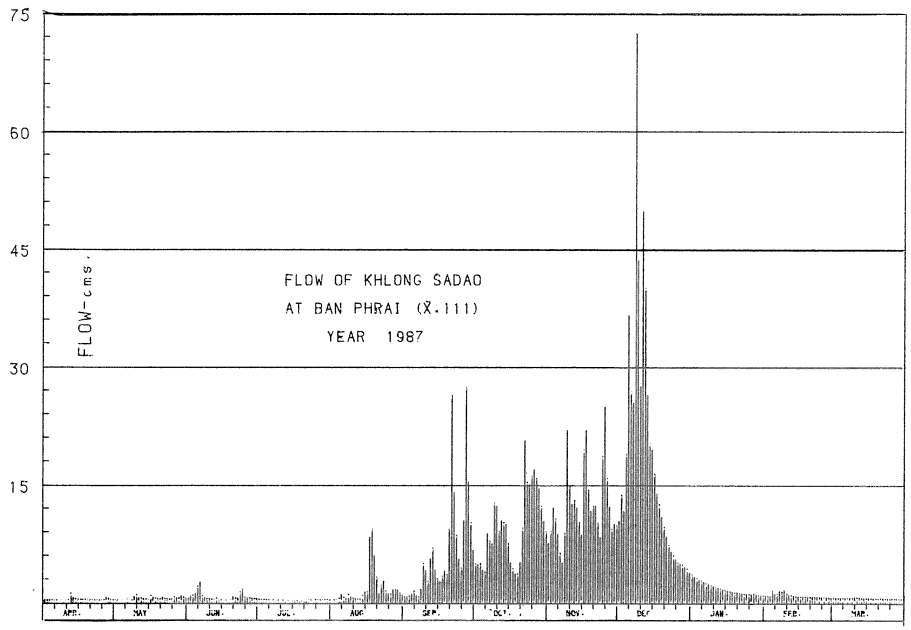
KHLONG SADAO AT BAN PHRAI, SONGKHLA (X.111)

LOCATION	LAT. 6°39'37" N., LONG. 100-26-09 E., ON LEFT BANK AT BAN PHRAI, AMPHOE SADAO, SONGKHLA.
DRAINAGE AREA	256 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP STAFF GAGE.
ELEVATION	+5.698 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 92 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.44	0.52	0.48	0.42	0.65	2.39	3.04	3.41	1.84	0.67	0.55	
2	0.44	0.42	0.65	0.47	0.42	0.61	2.32	3.27	3.67	1.71	0.67	0.55	
3	0.44	0.40	0.73	0.46	0.45	0.68	2.38	3.56	3.52	1.64	0.65	0.55	
4	0.43	0.40	0.83	0.46	0.53	0.78	2.07	3.44	3.91	1.56	1.02	0.55	
5	0.42	0.40	1.25	0.44	0.74	0.98	1.96	3.22	4.26	1.51	0.78	0.54	
6	0.42	0.46	1.44	0.43	0.60	0.68	3.23	2.82	4.11	1.45	0.82	0.54	
7	0.39	0.43	0.69	0.43	0.54	0.63	3.09	2.43	4.08	1.39	0.99	0.55	
8	0.40	0.41	0.57	0.42	0.78	1.07	3.03	3.24	4.62	1.33	0.95	0.55	
9	0.38	0.63	0.53	0.42	0.60	2.41	3.61	4.01	4.34	1.28	1.05	0.56	
10	0.40	0.77	0.51	0.41	0.54	2.03	3.58	3.74	4.13	1.23	0.83	0.59	
11	0.44	0.56	0.48	0.41	0.50	1.49	3.27	3.60	4.41	1.19	0.73	0.59	
12	0.86	0.56	0.46	0.40	0.48	2.62	3.42	3.63	4.30	1.15	0.73	0.57	
13	0.57	0.52	0.54	0.39	0.48	2.94	3.40	3.56	4.10	1.11	0.68	0.55	
14	0.52	0.50	0.42	0.38	0.72	2.08	3.37	3.40	3.96	1.07	0.65	0.54	
15	0.47	0.46	0.42	0.38	0.92	1.62	3.04	3.21	3.93	1.04	0.63	0.53	
16	0.46	0.70	0.40	0.40	0.97	1.46	2.43	3.93	3.82	1.00	0.63	0.53	
17	0.46	0.58	0.40	0.38	3.17	1.75	2.13	4.01	3.68	0.96	0.63	0.52	
18	0.46	0.54	0.42	0.37	3.31	2.01	1.86	3.71	3.60	0.93	0.63	0.52	
19	0.44	0.51	0.43	0.38	2.73	1.83	1.87	3.52	3.46	0.88	0.63	0.51	
20	0.43	0.51	0.61	0.36	1.70	3.30	2.44	3.58	3.33	0.88	0.62	0.50	
21	0.43	0.58	0.55	0.52	0.80	4.10	3.32	3.58	3.18	0.85	0.62	0.52	
22	0.42	0.53	0.54	0.44	1.30	3.69	3.97	3.39	3.00	0.83	0.61	0.52	
23	0.42	0.50	0.95	0.42	1.49	3.21	3.77	3.16	2.85	0.80	0.60	0.50	
24	0.42	0.48	1.07	0.42	1.00	2.61	3.75	3.90	2.73	0.79	0.59	0.50	
25	0.43	0.49	0.61	0.44	0.82	2.16	3.81	4.07	2.60	0.78	0.59	0.50	
26	0.44	0.63	0.56	0.44	0.80	3.42	3.84	3.80	2.44	0.76	0.59	0.50	
27	0.58	0.55	0.56	0.42	1.05	4.12	3.80	3.57	2.37	0.81	0.58	0.49	
28	0.53	0.56	0.54	0.42	1.07	3.77	3.72	3.30	2.32	0.75	0.57	0.49	
29	0.46	0.67	0.52	0.44	1.04	3.40	3.58	3.37	2.20	0.73	0.55	0.48	
30	0.43	0.62	0.51	0.44	0.88	2.88	3.41	3.35	2.12	0.71		0.48	
31		0.55		0.42	0.72		3.26		1.92	0.70		0.69	
MEAN	0.46	0.53	0.62	0.42	1.02	2.17	3.07	3.48	3.43	1.09	0.70	0.53	
MAX	0.86	0.77	1.44	0.52	3.31	4.12	3.97	4.07	4.62	1.84	1.05	0.69	4.62
MIN	0.38	0.40	0.40	0.36	0.42	0.61	1.86	2.43	1.92	0.70	0.55	0.48	0.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.64 M (A.D), AT 12.00 HOURS, ON DEC 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.11 M (A.D)
LEFT BANK ELEVATION 5.98 M (A.D)
RIGHT BANK ELEVATION 5.82 M (A.D), DRAINAGE AREA 256 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.48	0.48	0.64	0.56	0.44	0.90	5.08	7.64	10.42	3.70	0.94	0.70	
2	0.48	0.44	0.90	0.54	0.44	0.82	4.90	9.19	13.76	3.38	0.94	0.70	
3	0.48	0.40	1.06	0.52	0.50	0.96	5.05	12.14	11.68	3.20	0.90	0.70	
4	0.46	0.40	1.26	0.52	0.66	1.16	4.28	10.76	18.98	3.00	1.65	0.70	
5	0.44	0.40	2.23	0.48	1.08	1.56	4.00	8.77	36.62	2.88	1.16	0.68	
6	0.44	0.52	2.70	0.46	0.80	0.96	8.86	6.41	26.95	2.73	1.24	0.68	
7	0.38	0.46	0.98	0.46	0.68	0.86	7.94	5.18	25.46	2.58	1.58	0.70	
8	0.40	0.42	0.74	0.44	1.16	1.78	7.58	8.94	72.89	2.43	1.50	0.70	
9	0.36	0.86	0.66	0.44	0.80	5.13	12.77	22.00	43.58	2.30	1.72	0.72	
10	0.40	1.14	0.62	0.42	0.68	4.18	12.37	14.91	27.94	2.18	1.26	0.78	
11	0.48	0.72	0.56	0.42	0.60	2.83	9.19	12.60	49.88	2.08	1.06	0.78	
12	1.32	0.72	0.52	0.40	0.56	5.67	10.53	13.10	40.10	1.98	1.06	0.74	
13	0.74	0.64	0.68	0.38	0.56	7.07	10.30	12.14	26.45	1.88	0.96	0.70	
14	0.64	0.60	0.44	0.36	1.04	4.30	10.04	10.30	20.38	1.78	0.90	0.68	
15	0.54	0.52	0.44	0.36	1.44	3.15	7.64	8.69	19.54	1.70	0.86	0.66	
16	0.52	1.00	0.40	0.40	1.54	2.75	5.18	19.54	16.46	1.60	0.86	0.66	
17	0.52	0.76	0.40	0.36	8.42	3.48	4.43	22.00	13.92	1.52	0.86	0.64	
18	0.52	0.68	0.44	0.34	9.53	4.13	3.75	14.42	12.60	1.46	0.86	0.64	
19	0.48	0.62	0.46	0.36	6.06	3.68	3.78	11.68	10.99	1.36	0.86	0.62	
20	0.46	0.62	0.82	0.32	3.35	9.45	5.20	12.37	9.70	1.36	0.84	0.60	
21	0.46	0.76	0.70	0.64	1.20	26.45	9.62	12.37	8.48	1.30	0.84	0.64	
22	0.44	0.66	0.68	0.48	2.35	14.09	20.66	10.22	7.40	1.26	0.82	0.64	
23	0.44	0.60	1.50	0.44	2.83	8.69	15.41	8.36	6.57	1.20	0.80	0.60	
24	0.44	0.56	1.78	0.44	1.60	5.63	15.08	18.70	6.06	1.18	0.78	0.60	
25	0.46	0.58	0.82	0.48	1.24	4.50	16.18	24.97	5.60	1.16	0.78	0.60	
26	0.48	0.86	0.72	0.48	1.20	10.53	17.02	15.90	5.20	1.12	0.78	0.60	
27	0.76	0.70	0.72	0.44	1.72	27.44	15.90	12.26	5.03	1.22	0.76	0.58	
28	0.66	0.72	0.68	0.44	1.78	15.41	14.58	9.45	4.90	1.10	0.74	0.58	
29	0.52	0.94	0.64	0.48	1.70	10.30	12.37	10.04	4.60	1.06	0.70	0.56	
30	0.46	0.84	0.62	0.48	1.36	6.74	10.42	9.87	4.40	1.02		0.56	
31		0.70		0.44	1.04		9.11		3.90	1.00		0.98	
TOTAL	15.66	20.32	25.81	13.78	58.36	194.60	299.22	374.92	570.44	57.72	29.01	20.72	1680.56 CMSDAY
MEAN	0.52	0.66	0.86	0.44	1.88	6.49	9.65	12.50	18.40	1.86	1.00	0.67	4.59 CMS
MAX	1.32	1.14	2.70	0.64	9.53	27.44	20.66	24.97	72.89	3.70	1.72	0.98	72.89 CMS
MIN	0.36	0.40	0.40	0.32	0.44	0.82	3.75	5.18	3.90	1.00	0.70	0.56	0.32 CMS
RUNOFF	1.353	1.756	2.230	1.191	5.042	16.813	25.853	32.393	49.286	4.987	2.506	1.790	145.200 MCM

MOMENTARY PEAK 75.28 CMS, AT 4.64 M (A.D), AT 12.00 HOURS, ON DEC 8, 1987
RUNOFF YIELD 17.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 294.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

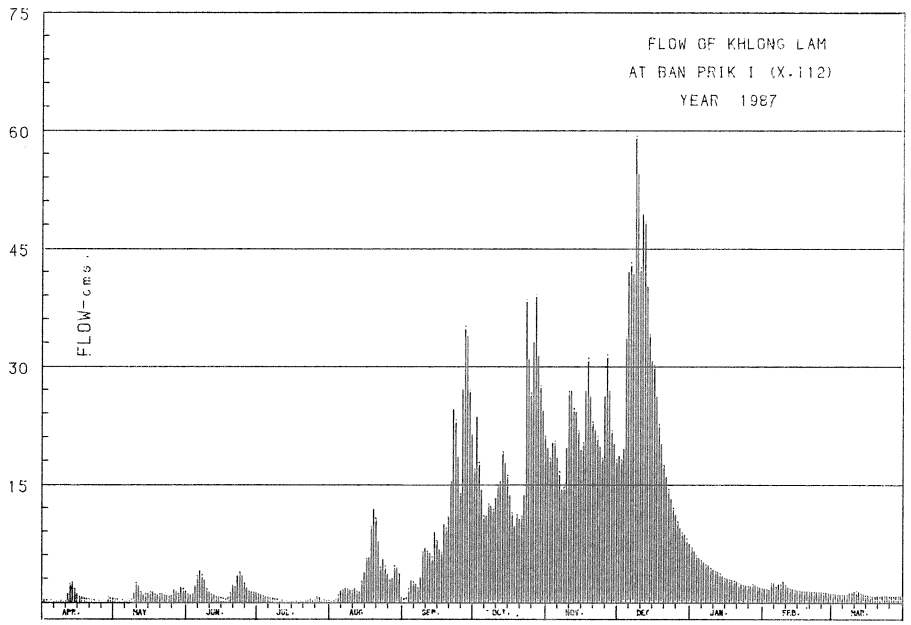
KHLONG LAM AT BAN PRIK (1), SONGKHLA (X.112)

LOCATION	LAT. 6°-42'-11" N., LONG. 100°-26'-10" E., ON RIGHT BANK AT BAN PRIK (1), AMPHOE SADAO, SONGKHLA.
DRAINAGE AREA	493 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 15 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.533 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.38 M.(A.D.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 81 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.79	0.85	1.14	1.16	0.75	0.86	5.04	5.28	5.20	3.23	1.49	1.15	
2	0.78	0.83	1.07	1.09	0.75	0.91	5.57	5.18	5.16	3.09	1.45	1.13	
3	0.77	0.81	1.15	1.03	0.81	1.51	5.13	5.33	5.27	2.95	1.41	1.10	
4	0.76	0.78	1.66	0.96	1.10	1.92	4.70	5.35	6.07	2.84	1.84	1.10	
5	0.75	0.77	2.14	0.94	1.32	1.90	4.16	5.18	6.35	2.77	1.83	1.09	
6	0.75	0.83	2.34	0.89	1.40	1.77	4.15	5.01	6.39	2.69	1.61	1.08	
7	0.74	0.82	2.19	0.87	1.51	1.56	4.43	4.70	6.34	2.62	1.77	1.10	
8	0.74	0.80	1.95	0.86	1.47	2.05	4.38	4.76	6.74	2.57	1.76	1.20	
9	0.73	1.19	1.49	0.83	1.38	3.08	4.31	5.28	6.65	2.48	1.89	1.19	
10	0.73	1.86	1.26	0.81	1.38	3.20	4.54	5.76	6.37	2.39	1.74	1.30	
11	1.15	1.66	1.13	0.77	1.48	3.11	4.79	5.76	6.54	2.34	1.56	1.34	
12	1.82	1.29	1.06	0.74	1.34	3.02	4.85	5.64	6.52	2.30	1.49	1.28	
13	1.87	1.06	0.98	0.73	1.28	2.90	5.25	5.61	6.29	2.25	1.46	1.18	
14	1.50	1.19	0.95	0.72	1.91	3.73	5.11	5.45	6.08	2.12	1.42	1.13	
15	1.16	1.17	0.92	0.71	2.27	3.47	4.95	5.26	5.94	2.05	1.38	1.08	
16	0.99	1.30	0.88	0.71	2.84	3.15	4.60	5.34	5.92	2.02	1.36	1.05	
17	0.94	1.27	0.84	0.70	2.86	3.07	4.23	5.76	5.72	1.98	1.33	1.02	
18	0.90	1.15	0.93	0.69	3.90	3.95	3.89	5.96	5.51	1.96	1.32	1.00	
19	0.86	1.08	1.24	0.71	4.30	3.86	4.19	5.72	5.32	1.93	1.32	0.98	
20	0.85	1.17	1.70	0.71	4.10	4.13	4.07	5.53	5.09	1.88	1.31	1.00	
21	0.82	1.15	1.61	0.70	3.43	4.85	4.15	5.45	4.92	1.82	1.29	0.98	
22	0.79	1.07	2.12	0.76	2.52	5.63	4.60	5.40	4.72	1.76	1.28	0.99	
23	0.78	1.03	2.30	0.81	2.79	5.55	6.24	5.29	4.53	1.72	1.27	1.03	
24	0.78	0.99	2.13	0.78	2.58	5.19	5.95	5.18	4.34	1.68	1.26	1.01	
25	0.77	1.04	1.83	0.80	2.19	4.64	5.75	5.72	4.17	1.66	1.25	0.98	
26	0.79	1.42	1.53	0.96	1.96	5.77	6.04	5.98	4.02	1.63	1.25	0.98	
27	0.79	1.27	1.33	0.91	2.02	6.12	6.26	5.76	3.85	1.79	1.23	0.99	
28	0.99	1.18	1.28	0.81	2.57	6.07	5.97	5.45	3.74	1.71	1.19	0.98	
29	0.92	1.54	1.26	0.77	2.46	5.77	5.80	5.32	3.66	1.62	1.16	1.01	
30	0.88	1.50	1.22	0.76	2.21	5.41	5.62	5.16	3.54	1.56		1.01	
31		1.32		0.75	0.93		5.40		3.36	1.51		1.09	
MEAN	0.93	1.14	1.45	0.82	2.06	3.61	4.97	5.42	5.30	2.16	1.45	1.08	
MAX	1.87	1.86	2.34	1.16	4.30	6.12	6.26	5.98	6.74	3.23	1.89	1.34	6.74
MIN	0.73	0.77	0.84	0.69	0.75	0.86	3.89	4.70	3.36	1.51	1.16	0.98	0.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.81 M (A.D), AT 18.00 HOURS, ON DEC 8, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.29 M (A.D)
LEFT BANK ELEVATION 6.37 M (A.D)
RIGHT BANK ELEVATION 6.42 M (A.D), DRAINAGE AREA 493 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.50	1.08	1.12	0.30	0.52	17.00	19.64	18.60	7.01	1.78	1.10	
2	0.36	0.46	0.94	0.98	0.30	0.62	23.58	18.40	18.20	6.52	1.70	1.06	
3	0.34	0.42	1.10	0.86	0.42	1.82	17.90	20.29	19.51	6.03	1.62	1.00	
4	0.32	0.36	2.12	0.72	1.00	2.76	14.30	20.55	33.86	5.64	2.52	1.00	
5	0.30	0.34	3.42	0.68	1.44	2.70	11.08	18.40	42.02	5.40	2.49	0.98	
6	0.30	0.46	4.02	0.58	1.60	2.34	11.02	16.70	43.28	5.12	2.02	0.96	
7	0.28	0.44	3.57	0.54	1.82	1.92	12.58	14.30	41.71	4.87	2.34	1.00	
8	0.28	0.40	2.85	0.52	1.74	3.15	12.29	14.72	59.36	4.71	2.32	1.20	
9	0.26	1.18	1.78	0.46	1.56	6.48	11.90	19.64	54.50	4.44	2.67	1.18	
10	0.26	2.58	1.32	0.42	1.56	6.90	13.24	26.88	42.65	4.17	2.28	1.40	
11	1.10	2.12	1.06	0.34	1.76	6.58	14.93	26.88	49.34	4.02	1.92	1.48	
12	2.46	1.38	0.92	0.28	1.48	6.27	15.40	24.72	48.52	3.90	1.78	1.36	
13	2.61	0.92	0.76	0.26	1.36	5.85	19.25	24.18	40.13	3.75	1.72	1.16	
14	1.80	1.18	0.70	0.24	2.73	8.92	17.70	21.90	34.12	3.36	1.64	1.06	
15	1.12	1.14	0.64	0.22	3.81	7.88	16.20	19.38	30.68	3.15	1.56	0.96	
16	0.78	1.40	0.56	0.22	5.64	6.73	13.60	20.42	30.24	3.06	1.52	0.90	
17	0.68	1.34	0.48	0.20	5.71	6.44	11.46	26.88	26.16	2.94	1.46	0.84	
18	0.60	1.10	0.66	0.18	9.70	9.95	9.65	31.12	22.74	2.88	1.44	0.80	
19	0.52	0.96	1.28	0.22	11.85	9.50	11.25	26.16	20.16	2.79	1.44	0.76	
20	0.50	1.14	2.20	0.22	10.75	10.92	10.59	23.02	17.50	2.64	1.42	0.80	
21	0.44	1.10	2.02	0.20	7.72	15.40	11.02	21.90	15.96	2.46	1.38	0.76	
22	0.38	0.94	3.36	0.32	4.56	24.54	13.60	21.20	14.44	2.32	1.36	0.78	
23	0.36	0.86	3.90	0.42	5.47	23.30	38.56	19.77	13.18	2.24	1.34	0.86	
24	0.36	0.78	3.39	0.36	4.74	18.50	30.90	18.40	12.07	2.16	1.32	0.82	
25	0.34	0.88	2.49	0.40	3.57	13.88	26.70	26.16	11.14	2.12	1.30	0.76	
26	0.38	1.64	1.86	0.72	2.88	27.06	33.06	31.56	10.31	2.06	1.30	0.76	
27	0.38	1.34	1.46	0.62	3.06	35.18	39.19	26.88	9.45	2.38	1.26	0.78	
28	0.78	1.16	1.36	0.42	4.71	33.86	31.34	21.90	8.96	2.22	1.18	0.76	
29	0.64	1.88	1.32	0.34	4.38	27.06	27.60	20.16	8.64	2.04	1.12	0.82	
30	0.56	1.80	1.24	0.32	3.63	21.34	24.36	18.20	8.16	1.92		0.82	
31		1.44		0.30	0.66		21.20		7.46	1.82		0.98	
TOTAL	19.87	33.64	53.86	13.68	111.91	348.37	582.45	660.31	813.05	110.14	49.20	29.90	2826.38 CMSDAY
MEAN	0.66	1.09	1.80	0.44	3.61	11.61	18.79	22.01	26.23	3.55	1.70	0.96	7.72 CMS
MAX	2.61	2.58	4.02	1.12	11.85	35.18	39.19	31.56	59.36	7.01	2.67	1.48	59.36 CMS
MIN	0.26	0.34	0.48	0.18	0.30	0.52	9.65	14.30	7.46	1.82	1.12	0.76	0.18 CMS
RUNOFF	1.717	2.906	4.654	1.182	9.669	30.099	50.324	57.051	70.248	9.516	4.251	2.583	244.199 MCM

MOMENTARY PEAK 63.25 CMS, AT 6.81 M (A.D), AT 18.00 HOURS, ON DEC 8, 1987
RUNOFF YIELD 15.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 128.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

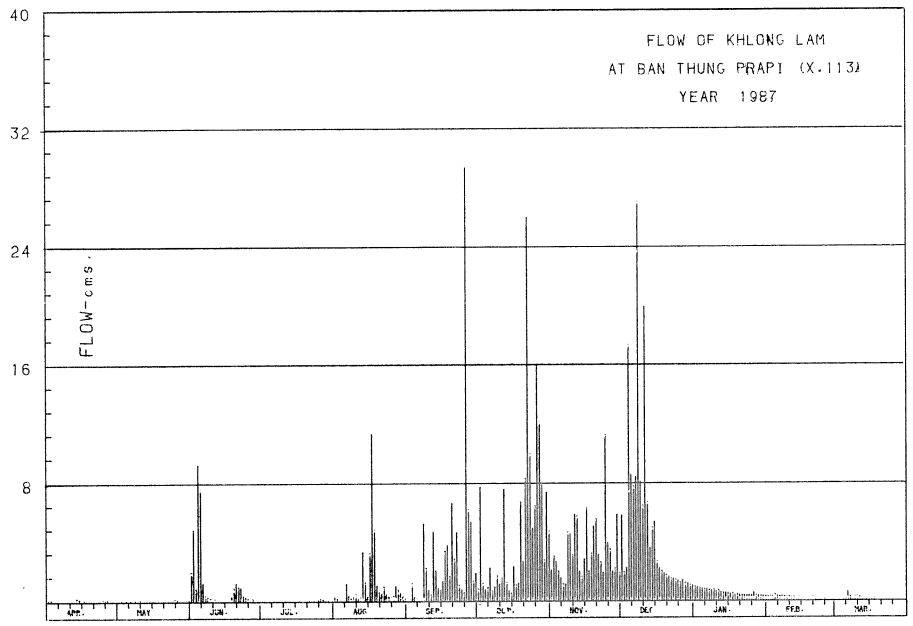
KHLONG LAM AT BAN THUNG PRAP (1), SONGKHLA (X.113)

LOCATION	LAT. 6°-37'-59" N., LONG. 100°-23'-46" E., ON RIGHT BANK AT BAN THUNG PRAP (I), AMPHOE SADAO, SONGKHLA.
DRAINAGE AREA	129 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS FROM THE GAGE OBSERVER'S HOUSE.
ELEVATION	+7.140 M.(A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00 - 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 116 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.10	1.07	2.24	1.12	1.26	1.20	1.65	2.30	3.34	1.73	1.29	1.18	
2	1.10	1.07	3.14	1.10	1.17	1.24	3.66	2.65	2.23	1.69	1.31	1.16	
3	1.09	1.06	1.66	1.10	1.11	1.86	1.86	2.53	2.38	1.67	1.31	1.18	
4	1.10	1.07	3.85	1.10	1.13	1.27	1.61	2.26	4.53	1.64	1.41	1.16	
5	1.09	1.08	3.65	1.09	1.20	1.22	1.70	2.03	3.77	1.63	1.31	1.14	
6	1.08	1.06	1.87	1.08	1.95	1.19	2.38	1.84	3.67	1.62	1.28	1.49	
7	1.08	1.06	1.40	1.08	1.37	1.19	1.57	1.82	3.75	1.59	1.31	1.26	
8	1.07	1.07	1.29	1.07	1.20	3.23	1.72	3.09	5.04	1.57	1.27	1.20	
9	1.08	1.08	1.22	1.07	1.27	2.38	2.11	3.06	3.71	1.61	1.27	1.29	
10	1.08	1.07	1.23	1.06	1.45	1.59	1.83	2.67	3.46	1.53	1.26	1.29	
11	1.08	1.07	1.16	1.06	1.21	1.43	2.03	3.35	4.69	1.58	1.25	1.22	
12	1.16	1.07	1.15	1.06	1.25	3.10	3.64	3.33	3.50	1.49	1.24	1.20	
13	1.22	1.07	1.17	1.06	2.74	2.28	1.89	2.26	2.82	1.48	1.23	1.19	
14	1.15	1.07	1.16	1.06	1.89	1.66	1.57	2.07	3.17	1.47	1.23	1.18	
15	1.13	1.07	1.12	1.07	1.30	1.61	1.48	2.58	3.25	1.46	1.23	1.17	
16	1.09	1.07	1.11	1.06	2.72	1.93	2.41	3.44	2.53	1.43	1.21	1.16	
17	1.10	1.07	1.10	1.06	4.06	2.77	1.80	2.27	2.37	1.46	1.21	1.16	
18	1.08	1.06	1.31	1.06	3.14	2.87	1.85	2.71	2.27	1.39	1.24	1.15	
19	1.08	1.05	1.69	1.06	1.77	2.09	3.50	3.19	2.19	1.42	1.23	1.15	
20	1.08	1.06	1.87	1.07	1.52	3.49	2.53	3.29	2.13	1.39	1.22	1.14	
21	1.08	1.06	1.73	1.07	1.45	2.59	3.74	2.68	2.08	1.37	1.21	1.14	
22	1.08	1.06	1.69	1.07	1.75	3.09	5.00	2.51	2.02	1.36	1.21	1.13	
23	1.07	1.06	1.36	1.06	1.43	1.80	3.93	2.22	2.00	1.35	1.20	1.13	
24	1.13	1.10	1.28	1.06	1.31	1.61	3.16	4.05	1.97	1.36	1.20	1.13	
25	1.11	1.14	1.20	1.30	1.28	1.51	3.46	2.91	1.94	1.34	1.19	1.12	
26	1.11	1.08	1.21	1.19	1.35	5.13	4.44	2.80	1.88	1.48	1.20	1.12	
27	1.08	1.06	1.17	1.11	1.75	3.42	4.13	2.25	1.96	1.39	1.20	1.12	
28	1.08	1.07	1.14	1.11	1.63	3.25	3.68	2.36	1.85	1.34	1.19	1.12	
29	1.07	1.07	1.21	1.07	1.48	1.93	2.56	3.35	1.84	1.33	1.18	1.11	
30	1.07	1.06	1.14	1.07	1.34	2.20	3.61	2.21	1.79	1.32		1.11	
31		1.09		1.07	1.23		3.11		1.76	1.30		1.13	
MEAN	1.10	1.07	1.58	1.09	1.64	2.20	2.70	2.67	2.77	1.48	1.24	1.18	
MAX	1.22	1.14	3.85	1.30	4.06	5.13	5.00	4.05	5.04	1.73	1.41	1.49	5.13
MIN	1.07	1.05	1.10	1.06	1.11	1.19	1.48	1.82	1.76	1.30	1.18	1.11	1.05

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.54 M (A.D), AT 19.00 HOURS, ON OCT 21, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.50 M (A.D)
LEFT BANK ELEVATION 5.82 M (A.D)
RIGHT BANK ELEVATION 6.52 M (A.D), DRAINAGE AREA 129 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.07	1.98	0.12	0.26	0.20	0.84	2.10	5.80	0.98	0.29	0.18	
2	0.10	0.07	4.86	0.10	0.17	0.24	7.72	3.05	1.96	0.91	0.31	0.16	
3	0.09	0.06	0.86	0.10	0.11	1.22	1.22	2.69	2.26	0.87	0.31	0.18	
4	0.10	0.07	9.25	0.10	0.13	0.27	0.77	2.02	17.35	0.82	0.42	0.16	
5	0.09	0.08	7.65	0.09	0.20	0.22	0.93	1.56	8.56	0.80	0.31	0.14	
6	0.08	0.06	1.24	0.08	1.40	0.19	2.26	1.18	7.79	0.79	0.28	0.56	
7	0.08	0.06	0.40	0.08	0.37	0.19	0.70	1.14	8.40	0.73	0.31	0.26	
8	0.07	0.07	0.29	0.07	0.20	5.25	0.96	4.66	27.04	0.70	0.27	0.20	
9	0.08	0.08	0.22	0.07	0.27	2.26	1.72	4.54	8.08	0.77	0.27	0.29	
10	0.08	0.07	0.23	0.06	0.49	0.73	1.16	3.11	6.46	0.63	0.26	0.29	
11	0.08	0.07	0.16	0.06	0.21	0.45	1.56	5.85	19.93	0.72	0.25	0.22	
12	0.16	0.07	0.15	0.06	0.25	4.70	7.58	5.75	6.70	0.56	0.24	0.20	
13	0.22	0.07	0.17	0.06	3.32	2.06	1.28	2.02	3.58	0.54	0.23	0.19	
14	0.15	0.07	0.16	0.06	1.28	0.86	0.70	1.64	4.98	0.52	0.23	0.18	
15	0.13	0.07	0.12	0.07	0.30	0.77	0.54	2.84	5.35	0.51	0.23	0.17	
16	0.09	0.07	0.11	0.06	3.26	1.36	2.33	6.34	2.69	0.45	0.21	0.16	
17	0.10	0.07	0.10	0.06	11.36	3.41	1.10	2.04	2.24	0.51	0.21	0.16	
18	0.08	0.06	0.31	0.06	4.86	3.78	1.20	3.23	2.04	0.39	0.24	0.15	
19	0.08	0.05	0.91	0.06	1.05	1.68	6.70	5.06	1.88	0.43	0.23	0.15	
20	0.08	0.06	1.24	0.07	0.61	6.64	2.69	5.55	1.76	0.39	0.22	0.14	
21	0.08	0.06	0.98	0.07	0.49	2.87	8.32	3.14	1.66	0.37	0.21	0.14	
22	0.08	0.06	0.91	0.07	1.01	4.66	26.00	2.63	1.54	0.36	0.21	0.13	
23	0.07	0.06	0.36	0.06	0.45	1.10	10.00	1.94	1.50	0.35	0.20	0.13	
24	0.13	0.10	0.28	0.06	0.31	0.77	4.94	11.25	1.44	0.36	0.20	0.13	
25	0.11	0.14	0.20	0.30	0.28	0.59	6.46	3.94	1.38	0.34	0.19	0.12	
26	0.11	0.08	0.21	0.19	0.35	29.38	16.06	3.50	1.26	0.54	0.20	0.12	
27	0.08	0.06	0.17	0.11	1.01	6.22	12.13	2.00	1.42	0.39	0.20	0.12	
28	0.08	0.07	0.14	0.11	0.80	5.35	7.86	2.22	1.20	0.34	0.19	0.12	
29	0.07	0.07	0.21	0.07	0.54	1.36	2.78	5.85	1.18	0.33	0.18	0.11	
30	0.07	0.06	0.14	0.07	0.34	1.90	7.37	1.92	1.08	0.32		0.11	
31		0.09		0.07	0.23		4.74		1.03	0.30		0.13	
TOTAL	2.92	2.20	34.01	2.67	35.91	90.68	150.62	104.76	159.54	17.02	7.10	5.50	612.93 CMSDAY
MEAN	0.10	0.07	1.13	0.09	1.16	3.02	4.86	3.49	5.15	0.55	0.24	0.18	1.67 CMS
MAX	0.22	0.14	9.25	0.30	11.36	29.38	26.00	11.25	27.04	0.98	0.42	0.56	29.38 CMS
MIN	0.07	0.05	0.10	0.06	0.11	0.19	0.54	1.14	1.03	0.30	0.18	0.11	0.05 CMS
RUNOFF	0.252	0.190	2.938	0.231	3.103	7.835	13.014	9.051	13.784	1.471	0.613	0.475	52.957 MCM

MOMENTARY PEAK 44.18 CMS, AT 5.54 M (A.D), AT 19.00 HOURS, ON OCT 21, 1987
RUNOFF YIELD 12.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 342.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

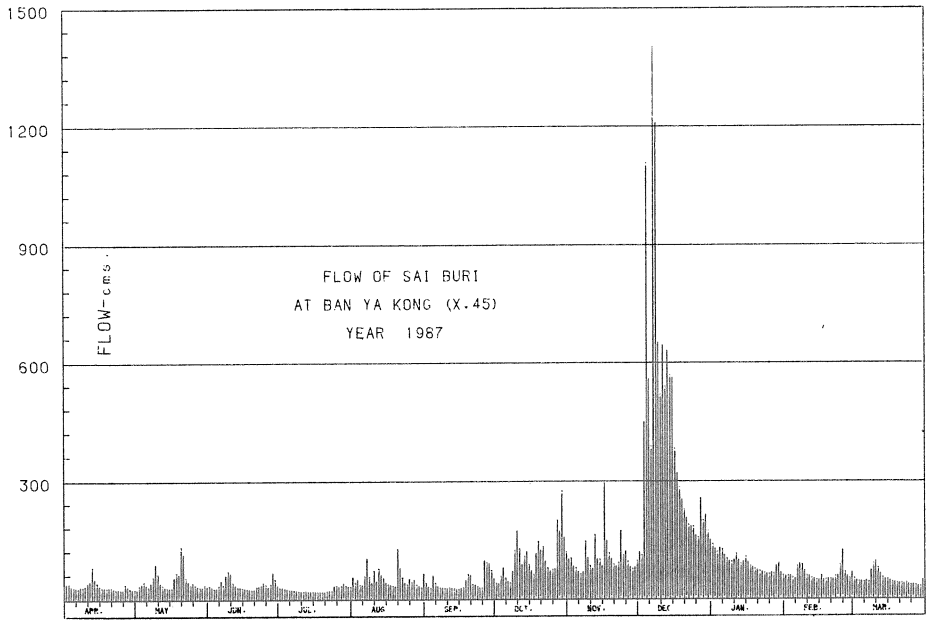
SAI BURI RIVER AT BAN YAKONG, NARATHIWAT (X.45)

LOCATION	LAT. 6°-19'-25" N., LONG. 100°-30'-31" E., ON RIGHT BANK ABOUT 7 KILOMETERS FROM AMPHOE RUSO, NARATHIWAT.
DRAINAGE AREA	1,483. SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE AUTOMATIC GAGE BUILDING.
ELEVATION	+8.830 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	1970 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +7.40 M.(A.D.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 151 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.97	0.79	0.91	0.86	1.12	0.99	0.98	1.50	1.64	1.79	1.14	1.09	
2	0.97	0.92	0.87	0.85	1.00	0.88	0.97	1.52	1.58	1.71	1.15	1.04	
3	0.89	0.96	0.83	0.83	1.07	0.85	1.14	1.35	3.76	1.64	1.15	1.02	
4	0.87	1.02	0.83	0.82	0.94	1.16	1.32	1.32	6.39	1.72	1.11	1.02	
5	0.85	0.93	0.92	0.79	0.92	0.99	1.10	1.24	4.30	1.69	1.08	1.01	
6	0.84	0.88	1.04	0.78	1.15	0.90	1.03	1.19	3.42	1.58	1.35	1.04	
7	0.88	0.99	0.94	0.77	1.52	0.86	1.00	1.23	7.31	1.51	1.40	1.01	
8	0.88	1.13	1.16	0.75	1.13	0.85	1.25	1.85	6.74	1.46	1.38	1.26	
9	0.91	1.40	1.25	0.74	0.99	0.84	1.68	1.53	4.71	1.45	1.26	1.41	
10	0.99	1.19	1.20	0.73	1.26	0.83	2.05	1.36	4.12	1.48	1.15	1.45	
11	1.03	0.98	1.00	0.73	1.03	0.86	1.71	1.30	4.68	1.61	1.15	1.31	
12	1.34	0.93	0.92	0.74	1.31	0.84	1.39	1.98	4.22	1.48	1.10	1.19	
13	1.08	0.87	0.87	0.72	1.17	0.84	1.56	1.50	4.62	1.41	1.08	1.11	
14	1.00	0.85	0.87	0.71	1.10	0.81	1.65	1.49	4.35	1.45	1.06	1.07	
15	0.91	0.84	0.85	0.72	1.00	0.82	1.39	1.36	4.32	1.55	1.05	1.07	
16	0.87	0.85	0.83	0.71	0.95	0.84	1.26	2.85	3.39	1.44	1.15	1.04	
17	0.86	1.11	0.82	0.71	0.93	0.86	1.18	1.86	3.01	1.36	1.06	1.01	
18	0.85	1.22	0.81	0.71	0.91	1.05	1.61	1.62	2.79	1.33	1.06	1.00	
19	0.86	1.18	0.80	0.70	0.88	1.19	1.85	1.51	2.59	1.30	1.08	0.98	
20	0.87	1.75	0.80	0.70	1.71	1.17	1.68	1.39	2.42	1.27	1.07	0.97	
21	0.83	1.60	0.88	0.74	1.32	0.95	1.75	1.35	2.28	1.25	1.07	0.98	
22	0.81	1.11	0.89	0.75	1.11	0.93	1.46	1.43	2.16	1.23	1.14	0.96	
23	0.81	1.02	0.92	0.75	1.00	0.90	1.32	2.05	2.13	1.21	1.15	0.98	
24	0.80	0.93	1.00	0.90	0.95	0.85	1.25	1.58	2.13	1.19	1.38	0.94	
25	0.79	1.00	0.95	0.92	1.08	0.86	1.29	1.65	1.96	1.18	1.67	0.92	
26	0.96	0.93	0.87	0.88	1.01	1.47	1.30	1.45	1.93	1.22	1.23	0.93	
27	0.88	0.89	0.96	0.92	1.06	1.43	2.24	1.34	2.61	1.20	1.14	0.92	
28	0.84	0.87	1.22	0.98	0.95	1.41	2.04	1.30	2.24	1.36	1.09	0.89	
29	0.81	0.86	1.07	0.92	0.90	1.27	2.73	1.33	2.33	1.48	1.22	0.89	
30	0.81	0.93	0.91	0.89	0.86	1.09	1.93	1.47	2.05	1.22		1.05	
31		0.88		0.89	1.20		1.64		1.88	1.16		1.02	
MEAN	0.90	1.03	0.94	0.79	1.08	0.99	1.51	1.53	3.36	1.42	1.18	1.05	
MAX	1.34	1.75	1.25	0.98	1.71	1.47	2.73	2.85	7.31	1.79	1.67	1.45	7.31
MIN	0.79	0.79	0.80	0.70	0.86	0.81	0.97	1.19	1.58	1.16	1.05	0.89	0.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.60 M (A.D), AT 20.00 HOURS, ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -2.82 M (A.D)
LEFT BANK ELEVATION 7.39 M (A.D)
RIGHT BANK ELEVATION 8.43 M (A.D), DRAINAGE AREA 1483 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	39.3	23.4	33.9	29.4	55.8	41.1	40.2	101.5	119.2	138.7	58.1	52.4	
2	39.3	34.8	30.3	28.5	42.0	31.2	39.3	104.0	111.5	128.3	59.2	46.6	
3	32.1	38.4	26.7	26.7	50.1	28.5	58.1	83.0	449.6	119.2	59.2	44.3	
4	30.3	44.3	26.7	25.8	36.6	60.4	79.4	79.4	1106.9	129.6	54.6	44.3	
5	28.5	35.7	34.8	23.4	34.8	41.1	53.5	69.8	558.0	125.7	51.2	43.1	
6	27.6	31.2	46.6	22.8	59.2	33.0	45.4	63.9	387.6	111.5	83.0	46.6	
7	31.2	41.1	36.6	22.2	104.0	29.4	42.0	68.6	1402.3	102.8	89.0	43.1	
8	31.2	56.9	60.4	21.0	56.9	28.5	71.0	146.5	1216.8	96.5	86.6	72.2	
9	33.9	89.0	71.0	20.4	41.1	27.6	124.4	105.3	651.3	95.3	72.2	90.3	
10	41.1	63.9	65.0	19.8	72.2	26.7	173.0	84.2	520.0	99.0	59.2	95.3	
11	45.4	40.2	42.0	19.8	45.4	29.4	128.3	77.0	644.4	115.3	59.2	78.2	
12	81.8	35.7	34.8	20.4	78.2	27.6	87.8	163.4	540.4	99.0	53.5	63.9	
13	51.2	30.3	30.3	19.2	61.5	27.6	109.0	101.5	630.6	90.3	51.2	54.6	
14	42.0	28.5	30.3	18.6	53.5	24.9	120.5	100.3	569.0	95.3	48.9	50.1	
15	33.9	27.6	28.5	19.2	42.0	25.8	87.8	84.2	562.4	107.7	47.7	50.1	
16	30.3	28.5	26.7	18.6	37.5	27.6	72.2	294.0	382.3	94.0	59.2	46.6	
17	29.4	54.6	25.8	18.6	35.7	29.4	62.7	147.8	319.6	84.2	48.9	43.1	
18	28.5	67.4	24.9	18.6	33.9	47.7	115.3	116.6	284.4	80.6	48.9	42.0	
19	29.4	62.7	24.0	18.0	31.2	63.9	146.5	102.8	252.5	77.0	51.2	40.2	
20	30.3	133.5	24.0	18.0	128.3	61.5	124.4	87.8	227.0	73.4	50.1	39.3	
21	26.7	114.0	31.2	20.4	79.4	37.5	133.5	83.0	206.0	71.0	50.1	40.2	
22	24.9	54.6	32.1	21.0	54.6	35.7	96.5	92.7	188.4	68.6	58.1	38.4	
23	24.9	44.3	34.8	21.0	42.0	33.0	79.4	173.0	184.2	66.2	59.2	40.2	
24	24.0	35.7	42.0	33.0	37.5	28.5	71.0	111.5	184.2	63.9	86.6	36.6	
25	23.4	42.0	37.5	34.8	51.2	29.4	75.8	120.5	160.8	62.7	123.1	34.8	
26	38.4	35.7	30.3	31.2	43.1	97.8	77.0	95.3	156.9	67.4	68.6	35.7	
27	31.2	32.1	38.4	34.8	48.9	92.7	200.0	81.8	255.6	65.0	58.1	34.8	
28	27.6	30.3	67.4	40.2	37.5	90.3	171.6	77.0	200.0	84.2	52.4	32.1	
29	24.9	29.4	50.1	34.8	33.0	73.4	274.8	80.6	213.5	99.0	67.4	32.1	
30	24.9	35.7	33.9	32.1	29.4	52.4	156.9	97.8	173.0	67.4		47.7	
31		31.2		32.1	65.0		119.2		150.4	60.4		44.3	
TOTAL	1007.6	1452.7	1121.0	764.4	1621.5	1283.6	3236.5	3194.8	13008.8	2839.2	1814.7	1503.2	32848.0 CMSDAY
MEAN	33.6	46.9	37.4	24.7	52.3	42.8	104.4	106.5	419.6	91.6	62.6	48.5	89.7 CMS
MAX	81.8	133.5	71.0	40.2	128.3	97.8	274.8	294.0	1402.3	138.7	123.1	95.3	1402.3 CMS
MIN	23.4	23.4	24.0	18.0	29.4	24.9	39.3	63.9	111.5	60.4	47.7	32.1	18.0 CMS
RUNOFF	87.06	125.51	96.85	66.04	140.10	110.90	279.63	276.03	1123.96	245.31	156.79	129.88	2838.07 MCM

MOMENTARY PEAK 1848.57 CMS, AT 8.60 M (A.D), AT 20.00 HOURS, ON DEC 7, 1987
RUNOFF YIELD 60.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1246.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

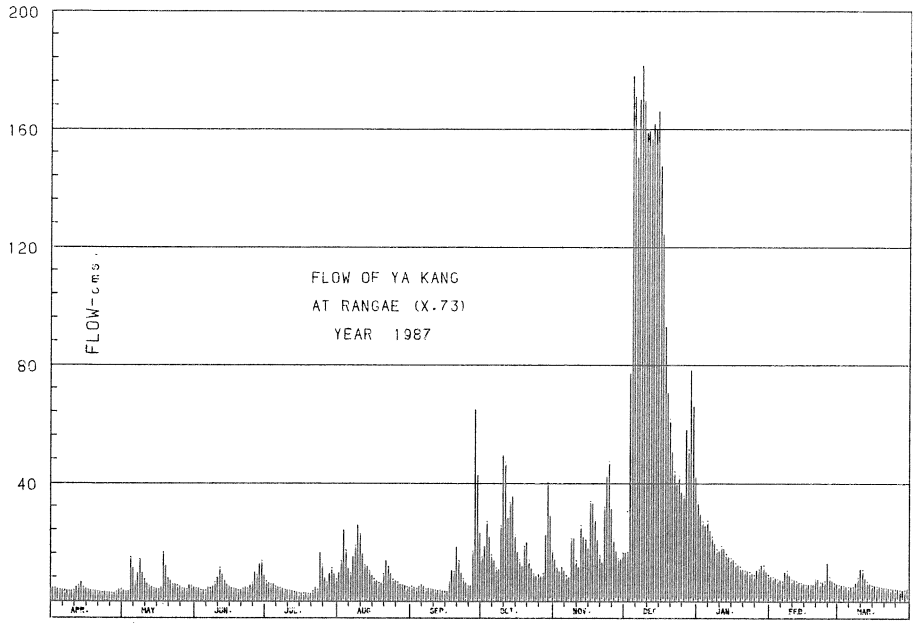
KHLONG TAN YONG MAT AT RANGAE, NARATHIWAT (X.73)

LOCATION	LAT. 6°-17'-44" N., LONG. 101°-44'-04" E., ON RIGHT BANK ABOUT 20 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE RANGAE, NARATHIWAT.
DRAINAGE AREA	336 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE TOP STAFF GAGE.
ELEVATION	+6.096 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	1985 TO DATE.
RATED BY FLOAT	
RATED BY CURRENT METER	1985 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.06	0.96	1.05	1.28	1.48	1.13	1.80	1.74	1.87	2.61	1.39	1.17	
2	1.07	0.93	1.04	1.23	1.73	1.08	1.98	1.59	1.88	2.44	1.38	1.15	
3	1.02	0.94	0.99	1.20	2.22	1.05	2.35	1.51	3.96	2.35	1.35	1.14	
4	1.00	1.80	0.98	1.19	1.92	1.12	2.12	1.60	6.24	2.28	1.33	1.10	
5	0.99	1.59	0.98	1.13	1.58	1.17	1.84	1.52	6.08	2.36	1.30	1.10	
6	0.98	1.26	1.07	1.08	1.47	1.12	1.73	1.42	5.67	2.21	1.28	1.09	
7	0.96	1.47	1.06	1.07	1.80	1.03	1.59	1.37	6.06	2.13	1.49	1.10	
8	0.95	1.76	1.11	1.03	2.00	1.04	1.55	2.10	6.31	2.02	1.53	1.22	
9	0.96	1.48	1.25	1.00	2.29	1.02	2.29	2.10	6.05	1.93	1.42	1.37	
10	0.98	1.32	1.37	0.98	2.17	1.00	3.15	1.73	5.85	1.89	1.32	1.56	
11	1.09	1.21	1.60	0.97	1.85	0.99	3.08	1.60	5.84	1.99	1.30	1.55	
12	1.16	1.14	1.44	0.95	1.65	0.97	2.39	2.29	5.80	1.94	1.28	1.34	
13	1.25	1.09	1.29	0.93	1.62	0.98	2.60	2.12	5.89	1.85	1.24	1.27	
14	1.09	1.05	1.18	0.90	1.53	0.95	2.67	2.08	5.87	1.79	1.23	1.20	
15	1.03	1.03	1.11	0.89	1.42	0.94	2.16	1.94	5.98	1.78	1.19	1.16	
16	0.99	1.01	1.06	0.88	1.34	0.93	1.88	2.62	5.61	1.74	1.18	1.14	
17	0.97	1.08	1.04	0.88	1.28	1.26	1.75	2.58	5.08	1.68	1.17	1.12	
18	0.96	1.88	1.02	0.87	1.24	1.53	1.62	2.38	4.39	1.64	1.18	1.10	
19	0.95	1.63	0.99	0.86	1.22	1.51	1.99	2.07	3.79	1.62	1.17	1.08	
20	0.94	1.35	0.98	0.85	1.46	1.97	2.04	1.83	3.54	1.55	1.33	1.07	
21	0.92	1.28	1.04	0.96	1.73	1.73	1.74	1.69	3.19	1.53	1.32	1.06	
22	0.91	1.19	1.08	1.07	1.62	1.48	1.57	2.54	2.97	1.52	1.25	1.04	
23	0.91	1.19	1.05	1.01	1.46	1.35	1.46	2.91	2.81	1.50	1.25	1.03	
24	0.90	1.16	1.14	1.87	1.33	1.23	1.40	3.09	2.92	1.46	1.28	1.02	
25	0.89	1.12	1.24	1.66	1.28	1.14	1.43	2.51	2.72	1.43	1.68	1.01	
26	0.89	1.05	1.49	1.35	1.26	1.14	1.40	2.10	2.68	1.53	1.39	1.00	
27	0.88	1.04	1.44	1.25	1.19	1.90	1.47	1.89	3.43	1.56	1.28	0.99	
28	0.93	1.02	1.66	1.46	1.17	3.63	2.15	1.77	3.22	1.64	1.23	0.97	
29	0.99	1.15	1.73	1.59	1.14	2.96	2.84	1.75	3.99	1.64	1.19	0.99	
30	1.03	1.14	1.42	1.45	1.10	2.18	2.42	1.87	3.69	1.50		1.02	
31		1.08		1.33	1.08		1.91		2.90	1.44		1.02	
MEAN	0.99	1.24	1.20	1.13	1.54	1.38	2.01	2.01	4.40	1.82	1.31	1.13	
MAX	1.25	1.88	1.73	1.87	2.29	3.63	3.15	3.09	6.31	2.61	1.68	1.56	6.31
MIN	0.88	0.93	0.98	0.85	1.08	0.93	1.40	1.37	1.87	1.43	1.17	0.97	0.85

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.42 M (A.D), AT 18.00 HOURS, ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.62 M (A.D)
LEFT BANK ELEVATION 8.25 M (A.D)
RIGHT BANK ELEVATION 6.90 M (A.D), DRAINAGE AREA 336 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.47	3.52	4.37	6.84	9.60	5.13	15.00	13.92	16.36	33.78	8.27	5.51	
2	4.57	3.24	4.28	6.19	13.74	4.66	18.51	11.25	16.56	29.34	8.14	5.32	
3	4.09	3.33	3.81	5.80	23.98	4.37	27.10	10.05	77.08	27.10	7.75	5.23	
4	3.90	15.00	3.71	5.71	17.34	5.04	21.66	11.40	179.00	25.42	7.49	4.85	
5	3.81	11.25	3.71	5.13	11.10	5.51	15.78	10.20	171.00	27.34	7.10	4.85	
6	3.71	6.58	4.57	4.66	9.45	5.04	13.74	8.70	151.29	23.74	6.84	4.76	
7	3.52	9.45	4.47	4.57	15.00	4.19	11.25	8.01	170.00	21.89	9.75	4.85	
8	3.43	14.28	4.95	4.19	18.90	4.28	10.65	21.20	182.50	19.36	10.35	6.06	
9	3.52	9.60	6.45	3.90	25.66	4.09	25.66	21.20	169.50	17.53	8.70	8.01	
10	3.71	7.36	8.01	3.71	22.81	3.90	49.30	13.74	159.80	16.76	7.36	10.80	
11	4.76	5.93	11.40	3.62	15.98	3.81	47.20	11.40	159.32	18.70	7.10	10.65	
12	5.42	5.23	9.00	3.43	12.30	3.62	28.06	25.66	157.40	17.73	6.84	7.62	
13	6.45	4.76	6.97	3.24	11.76	3.71	33.50	21.66	161.72	15.98	6.32	6.71	
14	4.76	4.37	5.61	2.95	10.35	3.43	35.43	20.74	160.76	14.82	6.19	5.80	
15	4.19	4.19	4.95	2.85	8.70	3.33	22.58	17.73	166.04	14.64	5.71	5.42	
16	3.81	4.00	4.47	2.76	7.62	3.24	16.56	34.05	148.47	13.92	5.61	5.23	
17	3.62	4.66	4.28	2.76	6.84	6.58	14.10	32.98	124.20	12.84	5.51	5.04	
18	3.52	16.56	4.09	2.67	6.32	10.35	11.76	27.82	93.99	12.12	5.61	4.85	
19	3.43	11.94	3.81	2.57	6.06	10.05	18.70	20.51	70.64	11.76	5.51	4.66	
20	3.33	7.75	3.71	2.48	9.30	18.31	19.82	15.59	61.76	10.65	7.49	4.57	
21	3.14	6.84	4.28	3.52	13.74	13.74	13.92	13.02	50.50	10.35	7.36	4.47	
22	3.05	5.71	4.66	4.57	11.76	9.60	10.95	31.94	43.93	10.20	6.45	4.28	
23	3.05	5.71	4.37	4.00	9.30	7.75	9.30	42.19	39.29	9.90	6.45	4.19	
24	2.95	5.42	5.23	16.36	7.49	6.19	8.40	47.50	42.48	9.30	6.84	4.09	
25	2.85	5.04	6.32	12.48	6.84	5.23	8.85	31.16	36.80	8.85	12.84	4.00	
26	2.85	4.37	9.75	7.75	6.58	5.23	8.40	21.20	35.70	10.35	8.27	3.90	
27	2.76	4.28	9.00	6.45	5.71	16.95	9.45	16.76	58.02	10.80	6.84	3.81	
28	3.24	4.09	12.48	9.30	5.51	64.88	22.35	14.46	51.42	12.12	6.19	3.62	
29	3.81	5.32	13.74	11.25	5.23	43.64	40.16	14.10	78.22	12.12	5.71	3.81	
30	4.19	5.23	8.70	9.15	4.85	23.04	28.82	16.36	67.04	9.90		4.09	
31		4.66		7.49	4.66		17.14		41.90	9.00		4.09	
TOTAL	113.91	209.67	185.15	172.35	344.48	308.89	634.10	606.50	3142.69	498.31	210.59	165.14	6591.78 CMSDAY
MEAN	3.80	6.76	6.17	5.56	11.11	10.30	20.45	20.22	101.38	16.07	7.26	5.33	18.01 CMS
MAX	6.45	16.56	13.74	16.36	25.66	64.88	49.30	47.50	182.50	33.78	12.84	10.80	182.50 CMS
MIN	2.76	3.24	3.71	2.48	4.66	3.24	8.40	8.01	16.36	8.85	5.51	3.62	2.48 CMS
RUNOFF	9.842	18.115	15.997	14.891	29.763	26.688	54.786	52.402	271.528	43.054	18.195	14.268	569.530 MCM

MOMENTARY PEAK 188.00 CMS, AT 6.42 M (A.D), AT 18.00 HOURS, ON DEC 7, 1987

RUNOFF YIELD 53.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 559.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

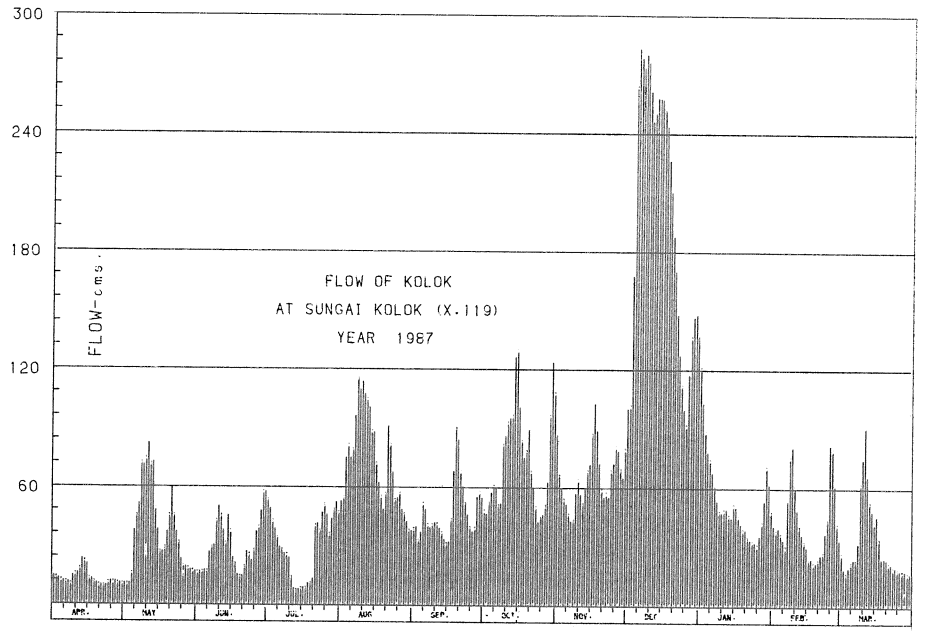
KOLOK RIVER AT SUNGAI KOLOK, NARATHIWAT (X.119)

LOCATION	LAT. 6°-04'-09" N., LONG. 102°-02'-22" E., ON LEFT BANK NEAR THE MUNO SCHOOL, TAMBON MUNO, AMPHOE SUNGAI KOLOK, NARATHIWAT.
DRAINAGE AREA	1,600 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE TOP STAFF GAGE.
ELEVATION	+5.546 M.(M.S.L.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1981 - 1987.
RATED BY FLOAT	-
RATED BY CURRENT METER	1981 - 1987.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.17	1.04	1.25	2.19	2.16	1.86	2.07	2.87	3.14	3.53	1.89	1.55	
2	1.16	1.04	1.25	2.08	2.22	1.87	2.02	2.47	3.18	3.20	1.84	1.31	
3	1.13	1.04	1.26	1.95	2.64	1.71	2.16	2.31	4.30	2.92	1.86	1.25	
4	1.11	1.23	1.27	1.84	2.78	1.80	2.26	2.20	5.79	2.70	1.80	1.33	
5	1.08	1.82	1.27	1.74	2.64	2.15	2.35	2.13	6.06	2.63	1.71	1.43	
6	1.08	2.01	1.54	1.61	2.74	2.07	2.31	2.03	6.01	2.49	1.64	1.46	
7	1.06	2.13	1.62	1.59	3.06	1.91	2.13	1.94	5.92	2.34	2.17	1.46	
8	1.04	2.59	1.63	1.53	3.43	1.86	2.14	1.96	6.04	2.17	2.66	1.67	
9	1.17	2.56	1.95	1.53	3.32	1.91	2.78	2.25	5.96	2.06	2.75	2.38	
10	1.22	2.64	2.10	1.47	3.42	1.92	2.86	2.42	5.77	2.04	2.35	2.63	
11	1.22	2.78	2.01	1.17	3.28	1.92	3.01	2.24	5.53	2.08	2.07	2.98	
12	1.31	2.58	1.82	0.94	3.24	1.85	3.04	2.15	5.61	2.08	1.89	2.45	
13	1.45	2.59	1.67	0.92	3.15	1.81	3.08	2.31	5.70	2.02	1.78	2.17	
14	1.43	2.09	2.00	0.92	2.92	1.71	3.61	2.52	5.72	1.98	1.70	2.06	
15	1.37	1.83	1.83	0.96	2.90	1.67	3.68	2.57	5.69	2.14	1.62	1.95	
16	1.14	1.56	1.47	0.96	2.59	1.68	3.15	2.89	5.63	2.10	1.48	2.00	
17	1.12	1.55	1.39	0.97	2.37	1.97	2.82	3.19	5.49	2.01	1.47	1.74	
18	1.08	1.61	1.20	1.04	2.23	2.50	2.64	2.95	5.25	1.91	1.42	1.47	
19	1.04	1.80	1.18	1.06	2.07	2.95	2.72	2.58	4.98	1.85	1.41	1.53	
20	1.02	2.01	1.18	1.13	2.26	2.82	2.92	2.31	4.66	1.84	1.47	1.46	
21	1.00	2.31	1.35	1.90	2.96	2.51	2.51	2.21	4.34	1.75	1.52	1.42	
22	1.00	2.01	1.55	1.91	2.78	2.33	2.32	2.27	4.00	1.71	1.56	1.39	
23	0.99	1.80	1.53	1.83	2.49	2.15	2.11	2.21	3.63	1.70	1.79	1.35	
24	1.07	1.68	1.43	2.03	2.19	2.01	1.93	2.52	3.37	1.68	1.97	1.34	
25	1.08	1.49	1.58	2.14	2.20	1.88	1.99	2.58	3.13	1.66	2.77	1.32	
26	1.08	1.38	1.80	2.01	2.27	1.81	2.01	2.76	2.98	1.76	2.74	1.29	
27	1.08	1.33	1.88	1.79	2.07	1.87	2.13	2.71	3.46	1.94	2.34	1.29	
28	1.06	1.32	2.05	1.96	2.03	2.21	2.38	2.53	3.79	2.17	1.92	1.28	
29	1.04	1.28	2.28	2.08	1.93	2.28	3.08	2.43	3.95	2.56	1.71	1.26	
30	1.04	1.28	2.27	2.15	1.84	2.20	3.57	2.74	4.00	2.36		1.24	
31		1.25		2.05	1.82		3.30		3.79	2.06		1.23	
MEAN	1.13	1.79	1.62	1.60	2.58	2.04	2.62	2.44	4.74	2.18	1.91	1.64	
MAX	1.45	2.78	2.28	2.19	3.43	2.95	3.68	3.19	6.06	3.53	2.77	2.98	6.06
MIN	0.99	1.04	1.18	0.92	1.82	1.67	1.93	1.94	2.98	1.66	1.41	1.23	0.92

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.08 M (MSL), AT 15.00 HOURS, ON DEC 5, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED -0.88 M (MSL)
LEFT BANK ELEVATION 8.10 M (MSL)
RIGHT BANK ELEVATION 7.50 M (MSL), DRAINAGE AREA 1600 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	14.60	11.00	17.00	54.05	52.70	39.40	48.65	86.50	100.00	121.30	40.60	27.00	
2	14.30	11.00	17.00	49.10	55.40	39.80	46.40	66.65	102.00	103.00	38.60	18.80	
3	13.40	11.00	17.30	43.25	75.00	33.40	52.70	59.45	167.50	89.00	39.40	17.00	
4	12.80	16.40	17.60	38.60	82.00	37.00	57.20	54.50	264.30	78.00	37.00	19.40	
5	12.00	37.80	17.60	34.60	75.00	52.25	61.25	51.35	283.20	74.50	33.40	22.55	
6	12.00	45.95	26.60	29.40	80.00	48.65	59.45	46.85	279.70	67.55	30.60	23.60	
7	11.50	51.35	29.80	28.60	96.00	41.45	51.35	42.80	273.40	60.80	53.15	23.60	
8	11.00	72.50	30.20	26.20	115.65	39.40	51.80	43.70	281.80	53.15	76.00	31.80	
9	14.60	71.00	43.25	26.20	109.60	41.45	82.00	56.75	276.20	48.20	80.50	62.60	
10	16.10	75.00	50.00	23.95	115.10	41.90	86.00	64.40	262.90	47.30	61.25	74.50	
11	16.10	82.00	45.95	14.60	107.40	41.90	93.50	56.30	246.10	49.10	48.65	92.00	
12	18.80	72.00	37.80	8.50	105.20	39.00	95.00	52.25	251.70	49.10	40.60	65.75	
13	23.25	72.50	31.80	8.00	100.50	37.40	97.00	59.45	258.00	46.40	36.20	53.15	
14	22.55	49.55	45.50	8.00	89.00	33.40	126.10	69.00	259.40	44.60	33.00	48.20	
15	20.60	38.20	38.20	9.00	88.00	31.80	130.30	71.50	257.30	51.80	29.80	43.25	
16	13.70	27.40	23.95	9.00	72.50	32.20	100.50	87.50	253.10	50.00	24.30	45.50	
17	13.10	27.00	21.20	9.25	62.15	44.15	84.00	102.50	243.35	45.95	23.95	34.60	
18	12.00	29.40	15.50	11.00	55.85	68.00	75.00	90.50	227.75	41.45	22.20	23.95	
19	11.00	37.00	14.90	11.50	48.65	90.50	79.00	72.00	210.20	39.00	21.85	26.20	
20	10.50	45.95	14.90	13.40	57.20	84.00	89.00	59.45	189.40	38.60	23.95	23.60	
21	10.00	59.45	20.00	41.00	91.00	68.50	68.50	54.95	169.90	35.00	25.80	22.20	
22	10.00	45.95	27.00	41.45	82.00	60.35	59.90	57.65	149.50	33.40	27.40	21.20	
23	9.75	37.00	26.20	38.20	67.55	52.25	50.45	54.95	127.30	33.00	36.60	20.00	
24	11.75	32.20	22.55	46.85	54.05	45.95	42.35	69.00	112.35	32.20	44.15	19.70	
25	12.00	24.65	28.20	51.80	54.50	40.20	45.05	72.00	99.50	31.40	81.50	19.10	
26	12.00	20.90	37.00	45.95	57.65	37.40	45.95	81.00	92.00	35.40	80.00	18.20	
27	12.00	19.40	40.20	36.60	48.65	39.80	51.35	78.50	117.30	42.80	60.80	18.20	
28	11.50	19.10	47.75	43.70	46.85	54.95	62.60	69.50	136.90	53.15	41.90	17.90	
29	11.00	17.90	58.10	49.10	42.35	58.10	97.00	64.85	146.50	71.00	33.40	17.30	
30	11.00	17.90	57.65	52.25	38.60	54.50	123.70	80.00	149.50	61.70		16.70	
31		17.00		47.75	37.80		108.50		136.90	48.20		16.40	
TOTAL	404.90	1195.45	920.70	950.85	2263.90	1429.05	2321.55	1975.80	6124.95	1676.05	1226.55	983.95	21473.70 CMSDAY
MEAN	13.50	38.56	30.69	30.67	73.03	47.63	74.89	65.86	197.58	54.07	42.29	31.74	58.67 CMS
MAX	23.25	82.00	58.10	54.05	115.65	90.50	130.30	102.50	283.20	121.30	81.50	92.00	283.20 CMS
MIN	9.75	11.00	14.90	8.00	37.80	31.80	42.35	42.80	92.00	31.40	21.85	16.40	8.00 CMS
RUNOFF	34.983	103.287	79.548	82.153	195.601	123.470	200.582	170.709	529.196	144.811	105.974	85.013	1855.328 MCM

MOMENTARY PEAK 284.60 CMS, AT 6.08 M (MSL), AT 15.00 HOURS, ON DEC 5, 1987

RUNOFF YIELD 36.67 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 177.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

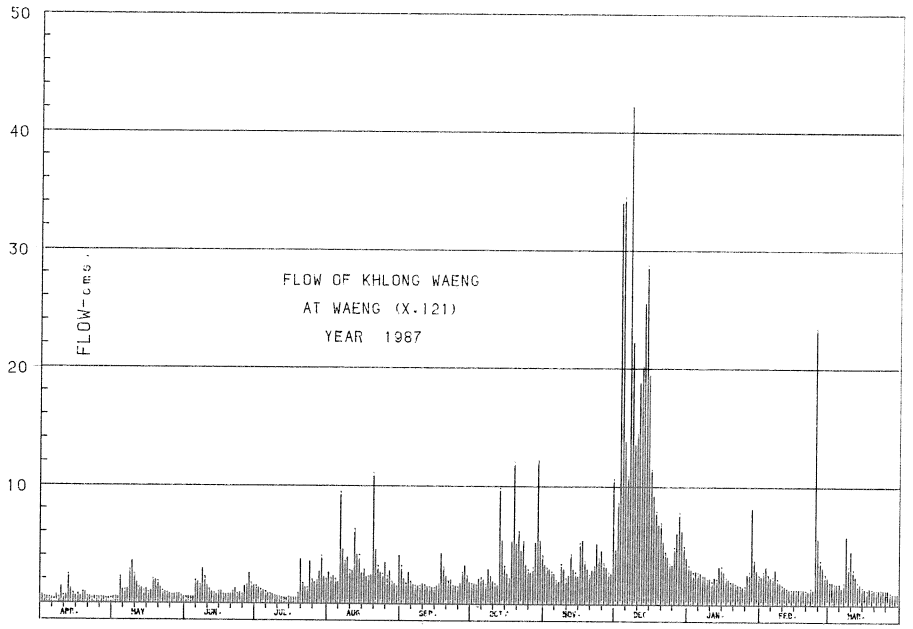
KHLONG WAENG AT WAENG, NARATHIWAT (X.121)

LOCATION	LAT. 5°-55'-26" N., LONG. 101°-53'-14" E., ON RIGHT BANK AT THE BRIDGE OF SUNGAI KOLOK -MALASIA HIGHWAY, AMPHOE WAENG, NARATHIWAT.
DRAINAGE AREA	43 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+15.853 M.(M.S.L.)
BENCH MARK	B.M-H.D.
LOCATION	ON RIGHT BANK AT ABUTMENT OF THE BRIDGE.
ELEVATION	+20.347 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	1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +19.82 M.(M.S.L.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	17.41	17.36	17.38	17.55	17.71	17.79	17.59	17.80	17.95	17.80	17.67	17.61	
2	17.38	17.38	17.38	17.52	17.65	17.64	17.58	17.77	18.38	17.75	17.73	17.61	
3	17.36	17.36	17.37	17.50	17.67	17.59	17.57	17.75	19.83	17.72	17.78	17.59	
4	17.36	17.66	17.37	17.48	17.64	17.71	17.64	17.73	19.85	17.73	17.69	17.59	
5	17.34	17.49	17.62	17.47	17.60	17.61	17.66	17.70	18.82	17.72	17.66	17.59	
6	17.32	17.49	17.60	17.44	18.46	17.57	17.63	17.63	18.58	17.71	17.67	17.53	
7	17.41	17.50	17.56	17.44	17.95	17.56	17.58	17.61	20.11	17.68	17.75	17.61	
8	17.37	17.74	17.75	17.43	17.84	17.55	17.75	17.81	19.35	17.68	17.65	18.08	
9	17.53	17.83	17.66	17.41	17.87	17.56	17.67	17.75	18.80	17.64	17.60	17.79	
10	17.41	17.69	17.55	17.40	17.74	17.58	17.61	17.65	18.87	17.65	17.57	17.94	
11	17.41	17.59	17.50	17.39	17.73	17.57	17.59	17.68	19.16	17.62	17.55	17.76	
12	17.69	17.53	17.46	17.37	18.15	17.54	17.56	17.91	19.24	17.66	17.53	17.67	
13	17.50	17.51	17.45	17.36	17.90	17.54	18.49	17.75	19.49	17.65	17.51	17.61	
14	17.44	17.48	17.42	17.35	17.90	17.53	18.04	17.72	19.63	17.78	17.51	17.58	
15	17.39	17.50	17.47	17.39	17.70	17.53	17.79	17.67	19.20	17.79	17.51	17.55	
16	17.43	17.46	17.47	17.36	17.75	17.55	17.70	18.02	18.63	17.72	17.51	17.52	
17	17.38	17.47	17.43	17.36	17.66	17.58	17.65	18.04	18.43	17.66	17.51	17.50	
18	17.46	17.64	17.42	17.36	17.67	17.91	18.03	17.84	18.31	17.64	17.51	17.53	
19	17.45	17.62	17.43	17.45	17.68	17.78	18.68	17.75	18.19	17.61	17.51	17.52	
20	17.39	17.61	17.43	17.85	18.60	17.67	18.01	17.69	18.21	17.61	17.50	17.50	
21	17.38	17.52	17.47	17.59	17.95	17.62	18.13	17.74	18.03	17.59	17.48	17.50	
22	17.35	17.48	17.51	17.53	17.79	17.63	17.94	17.79	17.93	17.57	17.53	17.50	
23	17.37	17.46	17.44	17.53	17.71	17.56	18.04	18.01	17.88	17.56	17.50	17.51	
24	17.36	17.45	17.45	17.83	17.70	17.55	17.80	17.87	17.82	17.54	19.40	17.50	
25	17.35	17.43	17.43	17.63	17.82	17.54	17.75	17.94	17.80	17.56	18.06	17.50	
26	17.37	17.42	17.54	17.60	17.68	17.59	17.71	17.82	17.98	17.69	17.85	17.50	
27	17.36	17.42	17.56	17.62	17.73	17.72	17.78	17.77	18.11	17.73	17.77	17.47	
28	17.34	17.43	17.70	17.72	17.61	17.79	18.02	17.72	18.30	18.33	17.70	17.45	
29	17.34	17.43	17.59	17.89	17.58	17.68	18.69	17.70	18.13	17.85	17.66	17.45	
30	17.35	17.41	17.55	17.66	17.55	17.60	18.04	18.56	17.99	17.74		17.45	
31		17.37		17.64	17.89		17.90		17.87	17.69		17.45	
MEAN	17.40	17.51	17.50	17.52	17.80	17.62	17.86	17.81	18.61	17.70	17.69	17.58	
MAX	17.69	17.83	17.75	17.89	18.60	17.91	18.69	18.56	20.11	18.33	19.40	18.08	20.11
MIN	17.32	17.36	17.37	17.35	17.55	17.53	17.56	17.61	17.80	17.54	17.48	17.45	17.32

ANNUAL MAX MOMENTARY GAGE HEIGHT 20.75 M (MSL), AT 15.00 HOURS, ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 15.85 M (MSL), RIVER BED 17.01 M (MSL)
LEFT BANK ELEVATION 19.81 M (MSL)
RIGHT BANK ELEVATION 20.51 M (MSL), DRAINAGE AREA 43 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.66	0.48	0.54	1.50	2.63	3.23	1.74	3.30	4.58	3.30	2.33	1.88	
2	0.54	0.54	0.54	1.32	2.17	2.10	1.68	3.08	8.60	2.93	2.77	1.88	
3	0.48	0.48	0.51	1.20	2.33	1.74	1.62	2.93	33.96	2.70	3.15	1.74	
4	0.48	2.25	0.51	1.08	2.10	2.63	2.10	2.77	34.53	2.77	2.48	1.74	
5	0.42	1.14	1.95	1.02	1.80	1.88	2.25	2.55	13.77	2.70	2.25	1.74	
6	0.36	1.14	1.80	0.84	9.49	1.62	2.03	2.03	10.87	2.63	2.33	1.38	
7	0.66	1.20	1.56	0.84	4.58	1.56	1.68	1.88	42.16	2.40	2.93	1.88	
8	0.51	2.85	2.93	0.78	3.64	1.50	2.93	3.39	22.40	2.40	2.17	5.72	
9	1.38	3.56	2.25	0.66	3.90	1.56	2.33	2.93	13.50	2.10	1.80	3.23	
10	0.66	2.48	1.50	0.60	2.85	1.68	1.88	2.17	14.45	2.17	1.62	4.49	
11	0.66	1.74	1.20	0.57	2.77	1.62	1.74	2.40	18.76	1.95	1.50	3.00	
12	2.48	1.38	0.96	0.51	6.35	1.44	1.56	4.24	20.20	2.25	1.38	2.33	
13	1.20	1.26	0.90	0.48	4.15	1.44	9.83	2.93	25.47	2.17	1.26	1.88	
14	0.84	1.08	0.72	0.45	4.15	1.38	5.36	2.70	28.77	3.15	1.26	1.68	
15	0.57	1.20	1.02	0.57	2.55	1.38	3.23	2.33	19.40	3.23	1.26	1.50	
16	0.78	0.96	1.02	0.48	2.93	1.50	2.55	5.18	11.46	2.70	1.26	1.32	
17	0.54	1.02	0.78	0.48	2.25	1.68	2.17	5.36	9.15	2.25	1.26	1.20	
18	0.96	2.10	0.72	0.48	2.33	4.24	5.27	3.64	7.90	2.10	1.26	1.38	
19	0.90	1.95	0.78	0.90	2.40	3.15	12.06	2.93	6.71	1.88	1.26	1.32	
20	0.57	1.88	0.78	3.73	11.10	2.33	5.09	2.48	6.90	1.88	1.20	1.20	
21	0.54	1.32	1.02	1.74	4.58	1.95	6.17	2.85	5.27	1.74	1.08	1.20	
22	0.45	1.08	1.26	1.38	3.23	2.03	4.49	3.23	4.41	1.62	1.38	1.20	
23	0.51	0.96	0.84	1.38	2.63	1.56	5.36	5.09	3.98	1.56	1.20	1.26	
24	0.48	0.90	0.90	3.56	2.55	1.50	3.30	3.90	3.47	1.44	23.40	1.20	
25	0.45	0.78	0.78	2.03	3.47	1.44	2.93	4.49	3.30	1.56	5.54	1.20	
26	0.51	0.72	1.44	1.80	2.40	1.74	2.63	3.47	4.83	2.48	3.73	1.20	
27	0.48	0.72	1.56	1.95	2.77	2.70	3.15	3.08	5.99	2.77	3.08	1.02	
28	0.42	0.78	2.55	2.70	1.88	3.23	5.18	2.70	7.80	8.10	2.55	0.90	
29	0.42	0.78	1.74	4.07	1.68	2.40	12.18	2.55	6.17	3.73	2.25	0.90	
30	0.45	0.66	1.50	2.25	1.50	1.80	5.36	10.64	4.91	2.85		0.90	
31		0.51		2.10	4.07		4.15		3.90	2.48		0.90	
TOTAL	20.36	39.90	36.56	43.45	107.23	60.01	124.00	103.22	407.57	79.99	80.94	54.37	1157.60 CMSDAY
MEAN	0.68	1.29	1.22	1.40	3.46	2.00	4.00	3.44	13.15	2.58	2.79	1.75	3.16 CMS
MAX	2.48	3.56	2.93	4.07	11.10	4.24	12.18	10.64	42.16	8.10	23.40	5.72	42.16 CMS
MIN	0.36	0.48	0.51	0.45	1.50	1.38	1.56	1.88	3.30	1.44	1.08	0.90	0.36 CMS
RUNOFF	1.759	3.447	3.159	3.754	9.265	5.185	10.714	8.918	35.214	6.911	6.993	4.698	100.017 MCM

MOMENTARY PEAK 63.55 CMS, AT 20.75 M (MSL), AT 15.00 HOURS, ON DEC 7, 1987
RUNOFF YIELD 73.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1477.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

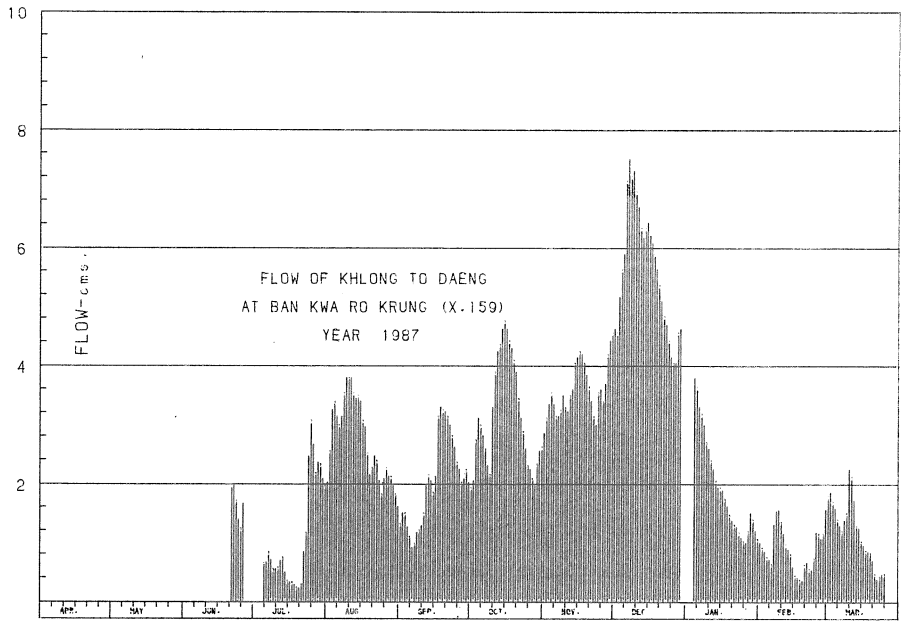
KHLONG TO DAENG AT BAN KWA RO KRUNG, NARATHIWAT (X.159)

LOCATION	LAT. 6°-05'-08" N., LONG. 102°-01'-20" E., ON RIGHT BANK DOWNSTREAM FROM THE BRIDGE OF BAN LU BO LU SONG-BAN KHLONG CHANG ROAD, AMPHOE SUNGAI KOLOK, NARATHIWAT.
DRAINAGE AREA	FLOOD PLAIN.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+2.100 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.549 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1984 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1987 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +2.34 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON JUNE21,1987. NO RECORDS ON JUNE27-JUL.4, DEC.30-JAN.3, MAR.26-31,1988. STAGE-DISCHARGE RELATION DEFINED BY 49 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	*******	3.23	2.97	3.20	3.48	3.85	*******	2.82	3.15	
2	*******	*******	*******	*******	3.40	3.04	3.24	3.55	3.84	*******	2.78	3.17	
3	*******	*******	*******	*******	3.59	3.04	3.45	3.61	3.93	*******	2.75	3.11	
4	*******	*******	*******	*******	3.62	2.94	3.55	3.65	4.00	3.70	2.71	3.07	
5	*******	*******	*******	2.67	3.56	2.87	3.52	3.61	4.03	3.67	2.69	3.00	
6	*******	*******	*******	2.67	3.52	2.78	3.47	3.56	4.17	3.60	2.66	2.95	
7	*******	*******	*******	2.75	3.56	2.82	3.41	3.56	4.21	3.57	2.96	2.91	
8	*******	*******	*******	2.69	3.65	2.90	3.32	3.59	4.18	3.52	3.07	2.99	
9	*******	*******	*******	2.62	3.70	2.92	3.27	3.64	4.19	3.44	3.06	3.04	
10	*******	*******	*******	2.62	3.70	2.95	3.60	3.60	4.15	3.41	2.98	3.30	
11	*******	*******	*******	2.63	3.70	3.04	3.72	3.58	4.12	3.35	2.89	3.26	
12	*******	*******	*******	2.68	3.65	3.22	3.79	3.64	4.08	3.30	2.81	3.12	
13	*******	*******	*******	2.71	3.63	3.27	3.81	3.66	4.06	3.24	2.77	2.95	
14	*******	*******	*******	2.59	3.64	3.24	3.85	3.75	4.08	3.20	2.73	2.93	
15	*******	*******	*******	2.51	3.62	3.17	3.87	3.77	4.09	3.20	2.63	2.83	
16	*******	*******	*******	2.50	3.54	3.26	3.85	3.79	4.07	3.18	2.56	2.80	
17	*******	*******	*******	2.50	3.51	3.56	3.82	3.78	4.05	3.13	2.54	2.76	
18	*******	*******	*******	2.47	3.39	3.60	3.80	3.75	4.03	3.08	2.52	2.75	
19	*******	*******	*******	2.45	3.27	3.59	3.76	3.71	4.00	3.03	2.51	2.74	
20	*******	*******	*******	2.44	3.31	3.58	3.72	3.67	3.96	2.99	2.65	2.68	
21	*******	*******	3.20	2.48	3.37	3.56	3.63	3.62	3.92	2.96	2.67	2.58	
22	*******	*******	3.22	2.75	3.35	3.52	3.55	3.56	3.88	2.94	2.62	2.52	
23	*******	*******	3.12	2.90	3.24	3.47	3.49	3.52	3.86	2.90	2.61	2.55	
24	*******	*******	3.00	3.37	3.16	3.42	3.41	3.65	3.82	2.86	2.70	2.57	
25	*******	*******	2.93	3.54	3.25	3.34	3.32	3.66	3.77	2.83	2.90	2.58	
26	*******	*******	3.10	3.43	3.31	3.30	3.30	3.62	3.75	2.82	2.89	*******	
27	*******	*******	*******	3.28	3.26	3.23	3.25	3.68	3.75	2.91	2.85	*******	
28	*******	*******	*******	3.34	3.26	3.25	3.21	3.78	3.84	3.04	2.89	*******	
29	*******	*******	*******	3.33	3.21	3.30	3.33	3.82	3.85	3.00	3.06	*******	
30	*******	*******	*******	3.25	3.16	3.23	3.40	3.84	*******	2.91		*******	
31		*******		3.21	3.08		3.42		*******	2.85		*******	
MEAN	*******	*******	*******	*******	3.43	3.21	3.53	3.66	*******	*******	2.77	*******	
MAX	*******	*******	3.22	3.54	3.70	3.60	3.87	3.84	4.21	3.70	3.07	3.30	4.21
MIN	*******	*******	*******	*******	3.08	2.78	3.20	3.48	*******	*******	2.51	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.22 M (MSL), AT 12.00 HOURS, ON DEC 7, 1987
ZERO GAGE AT BOTTOM ELEVATION 2.10 M (MSL), RIVER BED 2.14 M (MSL)
LEFT BANK ELEVATION 2.51 M (MSL)
RIGHT BANK ELEVATION 2.33 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	*******	2.03	1.33	1.94	2.86	4.63	*******	1.00	1.80	
2	*******	*******	*******	*******	2.56	1.51	2.06	3.12	4.57	*******	0.92	1.86	
3	*******	*******	*******	*******	3.26	1.51	2.75	3.35	5.17	*******	0.85	1.70	
4	*******	*******	*******	*******	3.40	1.27	3.12	3.55	5.64	3.80	0.76	1.59	
5	*******	*******	*******	0.67	3.15	1.11	3.00	3.35	5.90	3.65	0.72	1.40	
6	*******	*******	*******	0.67	3.00	0.92	2.82	3.15	7.14	3.30	0.65	1.29	
7	*******	*******	*******	0.85	3.15	1.00	2.60	3.15	7.51	3.19	1.31	1.20	
8	*******	*******	*******	0.72	3.55	1.18	2.31	3.26	7.22	3.00	1.59	1.38	
9	*******	*******	*******	0.56	3.80	1.22	2.16	3.50	7.31	2.71	1.56	1.51	
10	*******	*******	*******	0.56	3.80	1.29	3.30	3.30	6.96	2.60	1.36	2.25	
11	*******	*******	*******	0.59	3.80	1.51	3.90	3.23	6.70	2.40	1.16	2.13	
12	*******	*******	*******	0.70	3.55	2.00	4.25	3.50	6.34	2.25	0.98	1.72	
13	*******	*******	*******	0.76	3.45	2.16	4.37	3.60	6.17	2.06	0.89	1.29	
14	*******	*******	*******	0.50	3.50	2.06	4.63	4.05	6.34	1.94	0.81	1.25	
15	*******	*******	*******	0.36	3.40	1.86	4.77	4.15	6.43	1.94	0.59	1.03	
16	*******	*******	*******	0.34	3.08	2.13	4.63	4.25	6.26	1.89	0.45	0.96	
17	*******	*******	*******	0.34	2.97	3.15	4.43	4.20	6.08	1.75	0.41	0.87	
18	*******	*******	*******	0.29	2.53	3.30	4.30	4.05	5.90	1.62	0.38	0.85	
19	*******	*******	*******	0.25	2.16	3.26	4.10	3.85	5.64	1.48	0.36	0.83	
20	*******	*******	*******	0.23	2.28	3.23	3.90	3.65	5.37	1.38	0.63	0.70	
21	*******	*******	1.94	0.30	2.47	3.15	3.45	3.40	5.10	1.31	0.67	0.48	
22	*******	*******	2.00	0.85	2.40	3.00	3.12	3.15	4.84	1.27	0.56	0.38	
23	*******	*******	1.72	1.18	2.06	2.82	2.89	3.00	4.70	1.18	0.54	0.43	
24	*******	*******	1.40	2.47	1.83	2.63	2.60	3.55	4.43	1.09	0.74	0.47	
25	*******	*******	1.25	3.08	2.09	2.37	2.31	3.60	4.15	1.03	1.18	0.48	
26	*******	*******	1.67	2.67	2.28	2.25	2.25	3.40	4.05	1.00	1.16	*******	
27	*******	*******	*******	2.19	2.13	2.03	2.09	3.70	4.05	1.20	1.07	*******	
28	*******	*******	*******	2.37	2.13	2.09	1.97	4.20	4.57	1.51	1.16	*******	
29	*******	*******	*******	2.34	1.97	2.25	2.34	4.43	4.63	1.40	1.56	*******	
30	*******	*******	*******	2.09	1.83	2.03	2.56	4.57	*******	1.20		*******	
31		*******		1.97	1.62		2.63		*******	1.07		*******	
TOTAL	*******	*******	*******	*******	85.23	61.62	97.55	108.12	*******	*******	26.02	*******	******** CMSDAY
MEAN	*******	*******	*******	*******	2.75	2.05	3.15	3.60	*******	*******	0.90	*******	******** CMS
MAX	*******	*******	2.00	3.08	3.80	3.30	4.77	4.57	7.51	3.80	1.59	2.25	7.51 CMS
MIN	*******	*******	*******	*******	1.62	0.92	1.94	2.86	*******	*******	0.36	*******	******** CMS
RUNOFF	*******	*******	*******	*******	7.364	5.324	8.428	9.342	*******	*******	2.248	*******	******** MCM

MOMENTARY PEAK 7.61 CMS, AT 4.22 M (MSL), AT 12.00 HOURS, ON DEC 7, 1987

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

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG THEPHA AT BAN KABANG, YALA (X.168)

LOCATION LAT. 6°-25'-40" N., LONG. 100°-55'-41" E., ON RIGHT BANK AT THE BRIDGE ON ROAD NEAR WAT BAHOI, TAMBON BAHOI, AMPHOE YAHA, YALA.

DRAINAGE AREA 315 SQ.KM.

TYPE OF GAGE STAFF GAGE.

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

BENCH MARK B.M.-H.D.

LOCATION ON RIGHT BANK NEAR THE TOP STAFF GAGE

ELEVATION +7.952 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 1987 TO DATE.

RATING OPERATION

PERIOD OF RATING 1987 TO DATE.

RATED BY FLOAT -

RATED BY CURRENT METER 1987 TO DATE.

STABILITY OF CHANNEL REGIMES STABLE.

OVERBANK FLOW CONDITIONS OVERBANK FLOW STARTS AT ELEVATION +7.97 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION RECORDS FAIR. STREAM GAGING BEGAN ON JUNE14,1987. STAGE-DISCHARGE RELATION DEFINED BY 196 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

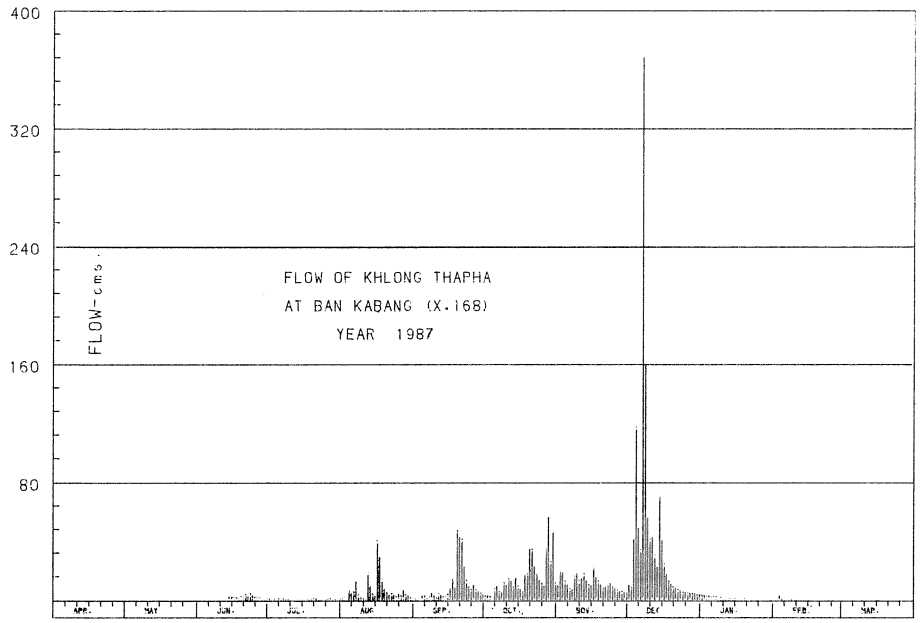
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	0.39	0.40	0.39	0.50	0.84	0.85	0.53	0.31	0.23	
2	*******	*******	*******	0.39	0.44	0.38	0.50	1.16	0.80	0.51	0.31	0.23	
3	*******	*******	*******	0.40	0.35	0.40	0.48	1.14	1.70	0.50	0.49	0.23	
4	*******	*******	*******	0.40	0.70	0.49	0.45	0.97	3.02	0.49	0.35	0.22	
5	*******	*******	*******	0.39	0.59	0.50	0.76	0.86	1.86	0.48	0.32	0.22	
6	*******	*******	*******	0.38	0.66	0.43	0.82	0.77	1.54	0.47	0.34	0.25	
7	*******	*******	*******	0.37	0.95	0.46	0.66	0.72	5.73	0.47	0.35	0.24	
8	*******	*******	*******	0.36	0.55	0.59	0.61	1.08	3.59	0.45	0.35	0.25	
9	*******	*******	*******	0.36	0.44	0.50	0.94	1.12	1.99	0.44	0.32	0.25	
10	*******	*******	*******	0.35	0.40	0.44	0.85	0.99	1.71	0.43	0.31	0.24	
11	*******	*******	*******	0.35	0.37	0.59	1.02	1.02	1.73	0.45	0.31	0.23	
12	*******	*******	*******	0.35	1.16	0.52	0.97	1.13	1.45	0.43	0.30	0.22	
13	*******	*******	*******	0.35	0.82	0.47	0.81	0.97	1.24	0.41	0.29	0.22	
14	*******	*******	0.46	0.36	0.59	0.49	1.03	0.88	2.26	0.41	0.29	0.22	
15	*******	*******	0.45	0.37	0.48	0.57	0.84	0.84	1.68	0.40	0.28	0.35	
16	*******	*******	0.44	0.37	1.69	0.75	0.73	1.25	1.30	0.39	0.34	0.26	
17	*******	*******	0.43	0.38	1.41	1.01	0.65	1.05	1.11	0.39	0.29	0.23	
18	*******	*******	0.44	0.35	1.02	0.78	1.09	0.97	0.97	0.39	0.28	0.22	
19	*******	*******	0.47	0.34	0.74	1.83	1.12	0.86	0.88	0.38	0.27	0.22	
20	*******	*******	0.46	0.41	0.63	1.73	1.55	0.79	0.82	0.37	0.27	0.23	
21	*******	*******	0.56	0.36	0.54	1.71	1.55	0.80	0.77	0.37	0.26	0.22	
22	*******	*******	0.47	0.34	0.60	1.25	1.25	0.83	0.73	0.37	0.26	0.22	
23	*******	*******	0.60	0.36	0.53	0.99	1.12	0.90	0.69	0.36	0.28	0.22	
24	*******	*******	0.51	0.34	0.48	0.82	0.99	0.81	0.65	0.35	0.28	0.22	
25	*******	*******	0.46	0.33	0.56	0.74	0.91	0.76	0.63	0.35	0.27	0.23	
26	*******	*******	0.45	0.36	0.52	0.85	0.83	0.71	0.61	0.34	0.26	0.23	
27	*******	*******	0.43	0.39	0.69	0.73	1.55	0.66	0.60	0.34	0.25	0.22	
28	*******	*******	0.41	0.36	0.57	0.65	2.00	0.67	0.59	0.33	0.24	0.22	
29	*******	*******	0.42	0.33	0.50	0.61	1.34	0.63	0.58	0.33	0.24	0.21	
30	*******	*******	0.41	0.32	0.44	0.54	1.80	0.61	0.55	0.32		0.27	
31		*******		0.40	0.41		0.92		0.54	0.31		0.30	
MEAN	*******	*******	*******	0.36	0.65	0.74	0.99	0.89	1.39	0.41	0.30	0.24	
MAX	*******	*******	0.60	0.41	1.69	1.83	2.00	1.25	5.73	0.53	0.49	0.35	5.73
MIN	*******	*******	*******	0.32	0.35	0.38	0.45	0.61	0.54	0.31	0.24	0.21	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.47 M (A.D), AT 19.00 HOURS, ON DEC 7, 1987

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.26 M (A.D)

LEFT BANK ELEVATION 8.24 M (A.D)

RIGHT BANK ELEVATION 7.96 M (A.D), DRAINAGE AREA 315 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	1.52	1.60	1.52	3.30	10.04	10.30	3.81	0.88	0.24	
2	*******	*******	*******	1.52	2.28	1.44	3.30	19.64	9.00	3.47	0.88	0.24	
3	*******	*******	*******	1.60	1.20	1.60	2.96	18.96	41.50	3.30	3.13	0.24	
4	*******	*******	*******	1.60	7.00	3.13	2.45	13.42	117.86	3.13	1.20	0.16	
5	*******	*******	*******	1.52	4.83	3.30	8.20	10.56	49.12	2.96	0.96	0.16	
6	*******	*******	*******	1.44	6.20	2.11	9.52	8.40	34.60	2.79	1.12	0.40	
7	*******	*******	*******	1.36	12.90	2.62	6.20	7.40	368.30	2.79	1.20	0.32	
8	*******	*******	*******	1.28	4.15	4.83	5.20	16.92	161.41	2.45	1.20	0.40	
9	*******	*******	*******	1.28	2.28	3.30	12.64	18.28	55.88	2.28	0.96	0.40	
10	*******	*******	*******	1.20	1.60	2.28	10.30	13.94	41.95	2.11	0.88	0.32	
11	*******	*******	*******	1.20	1.36	4.83	14.88	14.88	42.85	2.45	0.88	0.24	
12	*******	*******	*******	1.20	19.64	3.64	13.42	18.62	31.00	2.11	0.80	0.16	
13	*******	*******	*******	1.20	9.52	2.79	9.26	13.42	22.60	1.77	0.72	0.16	
14	*******	*******	2.62	1.28	4.83	3.13	15.22	11.08	70.16	1.77	0.72	0.16	
15	*******	*******	2.45	1.36	2.96	4.49	10.04	10.04	40.60	1.60	0.64	1.20	
16	*******	*******	2.28	1.36	41.05	8.00	7.60	23.00	25.00	1.52	1.12	0.48	
17	*******	*******	2.11	1.44	29.40	14.54	6.00	15.90	17.94	1.52	0.72	0.24	
18	*******	*******	2.28	1.20	14.88	8.60	17.26	13.42	13.42	1.52	0.64	0.16	
19	*******	*******	2.79	1.12	7.80	47.56	18.28	10.56	11.08	1.44	0.56	0.16	
20	*******	*******	2.62	1.77	5.60	42.85	35.00	8.80	9.52	1.36	0.56	0.24	
21	*******	*******	4.32	1.28	3.98	41.95	35.00	9.00	8.40	1.36	0.48	0.16	
22	*******	*******	2.79	1.12	5.00	23.00	23.00	9.78	7.60	1.36	0.48	0.16	
23	*******	*******	5.00	1.28	3.81	13.94	18.28	11.60	6.80	1.28	0.64	0.16	
24	*******	*******	3.47	1.12	2.96	9.52	13.94	9.26	6.00	1.20	0.64	0.16	
25	*******	*******	2.62	1.04	4.32	7.80	11.86	8.20	5.60	1.20	0.56	0.24	
26	*******	*******	2.45	1.28	3.64	10.30	9.78	7.20	5.20	1.12	0.48	0.24	
27	*******	*******	2.11	1.52	6.80	7.60	35.00	6.20	5.00	1.12	0.40	0.16	
28	*******	*******	1.77	1.28	4.49	6.00	56.40	6.40	4.83	1.04	0.32	0.16	
29	*******	*******	1.94	1.04	3.30	5.20	26.60	5.60	4.66	1.04	0.32	0.08	
30	*******	*******	1.77	0.96	2.28	3.98	46.00	5.20	4.15	0.96		0.56	
31		*******		1.60	1.77		12.12		3.98	0.88		0.80	
TOTAL	*******	*******	*******	40.97	223.43	295.85	499.01	355.72	1236.31	58.71	24.09	8.96	******** CMSDAY
MEAN	*******	*******	*******	1.32	7.21	9.86	16.10	11.86	39.88	1.89	0.83	0.29	******** CMS
MAX	*******	*******	5.00	1.77	41.05	47.56	56.40	23.00	368.30	3.81	3.13	1.20	368.30 CMS
MIN	*******	*******	*******	0.96	1.20	1.44	2.45	5.20	3.98	0.88	0.32	0.08	******** CMS
RUNOFF	*******	*******	*******	3.540	19.304	25.561	43.114	30.734	106.817	5.073	2.081	0.774	******** MCM

MOMENTARY PEAK 690.40 CMS, AT 8.47 M (A.D), AT 19.00 HOURS, ON DEC 7, 1987
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2191.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

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 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 — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 15 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +7.690 M. (A.D.)

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

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

PERIOD OF AVAILABLE GAGE RECORDS — 1966 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1966-1969, 1978 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966-1969, 1978 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE.

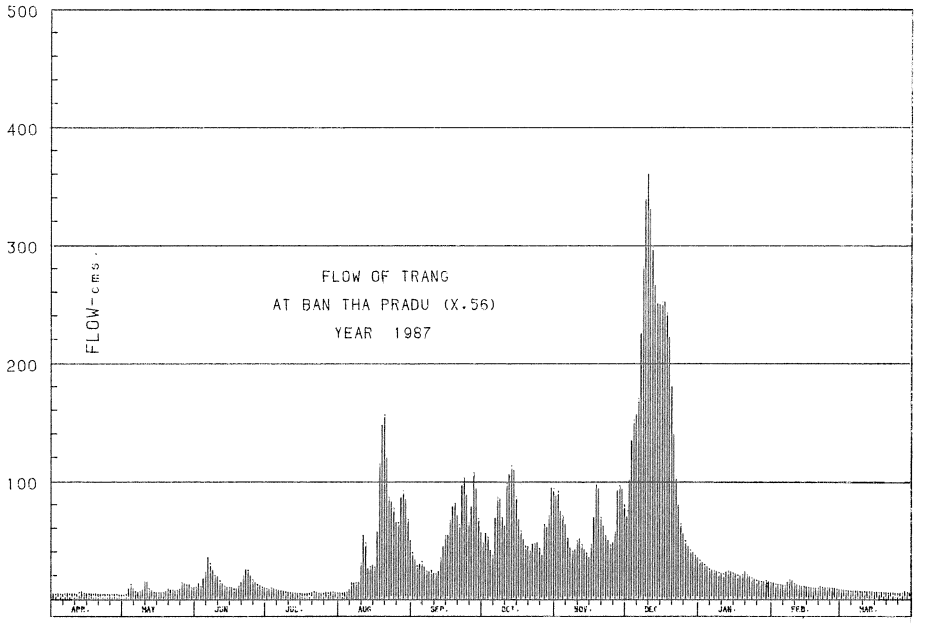
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 110 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (AD.), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.10	1.03	1.51	1.43	1.17	2.99	3.31	4.67	4.10	2.70	1.71	1.35	
2	1.10	1.08	1.68	1.40	1.15	2.72	3.62	4.80	5.06	2.62	1.67	1.34	
3	1.14	1.42	1.55	1.47	1.19	2.49	3.50	4.26	5.90	2.53	1.66	1.32	
4	1.10	1.67	1.90	1.42	1.23	2.55	3.06	4.13	6.26	2.45	1.63	1.31	
5	1.06	1.43	2.20	1.36	1.36	2.65	2.88	3.89	6.35	2.35	1.61	1.29	
6	1.13	1.28	2.81	1.34	1.73	2.43	4.07	3.46	6.60	2.30	1.60	1.28	
7	1.15	1.20	2.58	1.31	1.72	2.25	4.64	3.15	7.36	2.27	1.75	1.28	
8	1.12	1.27	2.30	1.27	1.73	2.22	4.60	3.03	7.89	2.24	1.87	1.28	
9	1.11	1.36	2.06	1.24	1.75	2.28	4.08	3.09	8.32	2.19	1.82	1.26	
10	1.11	1.78	2.01	1.21	2.59	2.16	3.85	3.39	8.49	2.15	1.70	1.25	
11	1.06	1.76	1.82	1.19	3.56	2.13	4.98	3.44	8.26	2.13	1.62	1.26	
12	1.22	1.43	1.69	1.17	3.32	2.23	5.20	3.26	8.02	2.21	1.58	1.25	
13	1.25	1.30	1.57	1.15	2.36	2.79	5.39	3.09	7.76	2.25	1.55	1.25	
14	1.18	1.23	1.50	1.14	2.45	3.20	5.29	2.96	7.64	2.22	1.54	1.24	
15	1.13	1.20	1.50	1.13	2.51	3.55	4.66	2.80	7.61	2.17	1.52	1.21	
16	1.12	1.19	1.49	1.12	2.43	3.56	4.03	3.27	7.63	2.13	1.49	1.21	
17	1.11	1.21	1.42	1.11	3.67	4.00	3.69	4.08	7.63	2.08	1.47	1.20	
18	1.11	1.20	1.42	1.12	5.43	4.38	3.42	4.95	7.54	2.04	1.45	1.20	
19	1.11	1.26	1.56	1.14	6.17	4.48	3.21	4.86	7.32	2.10	1.44	1.19	
20	1.08	1.41	1.74	1.18	6.35	4.14	3.20	4.09	6.80	2.23	1.46	1.18	
21	1.07	1.35	2.04	1.26	5.56	3.88	3.03	3.84	6.01	2.10	1.55	1.17	
22	1.07	1.36	2.31	1.21	4.64	4.93	3.28	3.54	5.15	2.01	1.49	1.16	
23	1.07	1.29	2.30	1.16	4.52	5.12	3.28	3.39	4.43	1.95	1.47	1.15	
24	1.07	1.35	2.04	1.14	4.34	4.70	3.33	3.24	3.91	1.90	1.49	1.14	
25	1.07	1.40	1.88	1.16	3.95	3.94	3.13	3.32	3.61	1.85	1.47	1.13	
26	1.07	1.74	1.74	1.20	3.94	4.38	2.88	3.66	3.38	1.82	1.45	1.14	
27	1.07	1.69	1.65	1.19	4.63	5.24	3.89	4.80	3.20	1.78	1.44	1.17	
28	1.07	1.63	1.60	1.22	4.81	4.86	3.80	4.93	3.08	1.78	1.40	1.26	
29	1.05	1.64	1.52	1.26	4.59	4.06	4.13	4.85	2.99	1.83	1.38	1.21	
30	1.03	1.48	1.47	1.20	4.03	3.64	4.87	4.43	2.88	1.78		1.17	
31		1.49		1.18	3.39		4.86		2.79	1.73		1.18	
MEAN	1.10	1.39	1.83	1.23	3.30	3.46	3.91	3.82	5.93	2.13	1.56	1.23	
MAX	1.25	1.78	2.81	1.47	6.35	5.24	5.39	4.95	8.49	2.70	1.87	1.35	8.49
MIN	1.03	1.03	1.42	1.11	1.15	2.13	2.88	2.80	2.79	1.73	1.38	1.13	1.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.55 M (AD.), AT 6.00 HOURS, ON DEC 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (AD.), RIVER BED -0.06 M (AD.)
LEFT BANK ELEVATION 11.79 M (AD.)
RIGHT BANK ELEVATION 12.17 M (AD.), DRAINAGE AREA 1801 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1. 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.80	3.96	10.56	9.28	5.64	39.97	47.91	87.71	70.00	33.40	13.98	8.10	
2	4.80	4.56	13.44	8.80	5.40	33.84	56.14	92.00	101.10	31.64	13.26	7.96	
3	5.28	9.12	11.20	9.92	5.88	28.89	52.95	74.86	134.60	29.73	13.08	7.68	
4	4.80	13.26	17.50	9.12	6.42	30.15	41.64	70.90	152.26	28.05	12.54	7.54	
5	4.32	9.28	23.20	8.24	8.24	32.30	37.44	63.70	156.85	26.05	12.18	7.26	
6	5.16	7.12	35.83	7.96	14.34	27.63	69.10	51.89	170.40	25.10	12.00	7.12	
7	5.40	6.00	30.78	7.54	14.16	24.15	86.72	43.80	225.52	24.53	14.70	7.12	
8	5.04	6.98	25.10	6.98	14.34	23.58	85.40	40.92	282.03	23.96	16.93	7.12	
9	4.92	8.24	20.54	6.56	14.70	24.72	69.40	42.36	338.96	23.01	15.98	6.84	
10	4.92	15.24	19.59	6.14	30.99	22.44	62.50	50.04	363.50	22.25	13.80	6.70	
11	4.32	14.88	15.98	5.88	54.54	21.87	98.30	51.36	330.68	21.87	12.36	6.84	
12	6.28	9.28	13.62	5.64	48.18	23.77	106.00	46.59	298.64	23.39	11.68	6.70	
13	6.70	7.40	11.52	5.40	26.24	35.38	113.41	42.36	266.28	24.15	11.20	6.70	
14	5.76	6.42	10.40	5.28	28.05	45.00	109.51	39.28	253.32	23.58	11.04	6.56	
15	5.16	6.00	10.40	5.16	29.31	54.28	87.38	35.60	250.08	22.63	10.72	6.14	
16	5.04	5.88	10.24	5.04	27.63	54.54	67.90	46.86	252.24	21.87	10.24	6.14	
17	4.92	6.14	9.12	4.92	57.49	67.00	58.03	69.40	252.24	20.92	9.92	6.00	
18	4.92	6.00	9.12	5.04	114.97	78.58	50.83	97.25	243.00	20.16	9.60	6.00	
19	4.92	6.84	11.36	5.28	147.70	81.68	45.27	94.10	222.04	21.30	9.44	5.88	
20	4.56	8.96	14.52	5.76	156.85	71.20	45.00	69.70	183.00	23.77	9.76	5.76	
21	4.44	8.10	20.16	6.84	120.04	63.40	40.92	62.20	139.70	21.30	11.20	5.64	
22	4.44	8.24	25.29	6.14	86.72	96.55	47.12	54.01	104.25	19.59	10.24	5.52	
23	4.44	7.26	25.10	5.52	82.92	103.20	47.12	50.04	80.13	18.45	9.92	5.40	
24	4.44	8.10	20.16	5.28	77.34	88.70	48.44	46.06	64.30	17.50	10.24	5.28	
25	4.44	8.80	17.12	5.52	65.50	65.20	43.32	48.18	55.87	16.55	9.92	5.16	
26	4.44	14.52	14.52	6.00	65.20	78.58	37.44	57.22	49.77	15.98	9.60	5.28	
27	4.44	13.62	12.90	5.88	86.39	107.56	63.70	92.00	45.00	15.24	9.44	5.64	
28	4.44	12.54	12.00	6.28	92.35	94.10	61.00	96.55	42.12	15.24	8.80	6.84	
29	4.20	12.72	10.72	6.84	85.09	68.80	70.90	93.75	39.97	16.17	8.52	6.14	
30	3.96	10.08	9.92	6.00	67.90	56.68	94.45	80.13	37.44	15.24		5.64	
31		10.24		5.76	50.04		94.10		35.38	14.34		5.76	
TOTAL	145.70	275.78	491.91	200.00	1690.56	1643.74	2039.34	1890.82	5240.67	676.96	332.29	198.46	14826.23 CMSDAY
MEAN	4.86	8.90	16.40	6.45	54.53	54.79	65.79	63.03	169.05	21.84	11.46	6.40	40.51 CMS
MAX	6.70	15.24	35.83	9.92	156.85	107.56	113.41	97.25	363.50	33.40	16.93	8.10	363.50 CMS
MIN	3.96	3.96	9.12	4.92	5.40	21.87	37.44	35.60	35.38	14.34	8.52	5.16	3.96 CMS
RUNOFF	12.588	23.827	42.501	17.280	146.064	142.019	176.199	163.367	452.794	58.489	28.710	17.147	1280.986 MCM

MOMENTARY PEAK 372.50 CMS, AT 8.55 M (AD.), AT 6.00 HOURS, ON DEC 10, 1987
RUNOFF YIELD 22.49 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 206.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

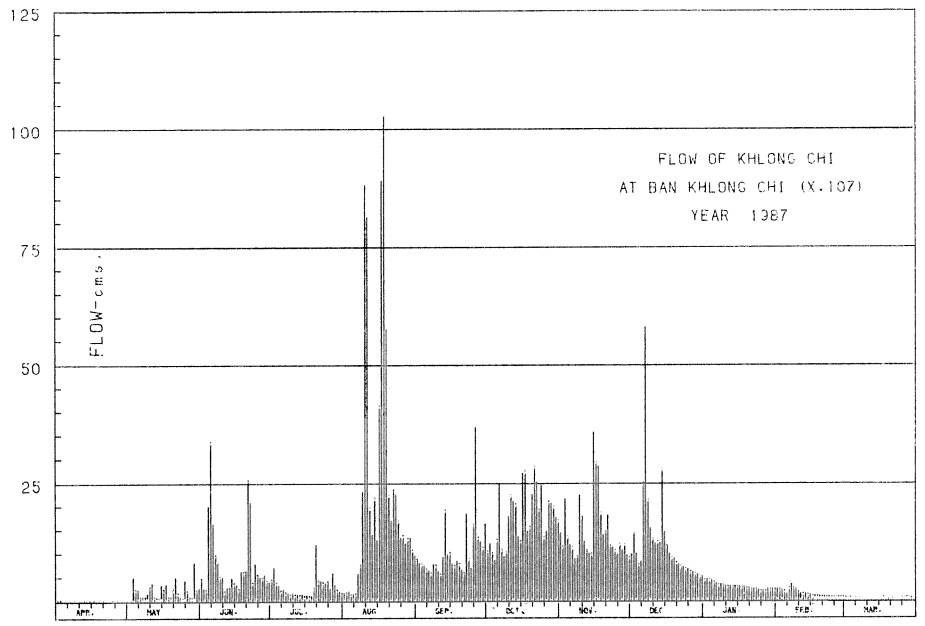
KHLONG CHI AT BAN KHLONG CHI, TRANG (X.107)

LOCATION	LAT. 7°44'08" N., LONG. 99°24'42" E., ON RIGHT BANK DOWNSTREAM FROM 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	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 2.5 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.020 M. (A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	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.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 82 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.12	0.64	0.62	0.37	0.95	1.08	1.37	1.03	0.62	0.45	0.27	
2	0.19	0.17	0.45	0.81	0.39	0.88	1.20	1.16	1.40	0.62	0.45	0.27	
3	0.19	0.65	0.45	0.57	0.40	0.87	1.05	1.93	1.04	0.62	0.43	0.27	
4	0.20	0.45	1.81	0.51	0.35	0.84	0.93	1.32	0.87	0.61	0.42	0.26	
5	0.20	0.44	2.73	0.43	0.35	0.79	1.27	1.18	0.91	0.58	0.35	0.25	
6	0.19	0.30	1.52	0.44	0.37	0.76	2.17	1.15	2.18	0.55	0.48	0.25	
7	0.19	0.30	1.02	0.40	0.71	0.73	1.11	0.95	4.05	0.53	0.53	0.25	
8	0.19	0.30	0.89	0.37	0.86	0.86	0.99	1.00	1.92	0.53	0.48	0.24	
9	0.19	0.36	0.67	0.35	2.04	0.86	1.07	1.99	1.45	0.52	0.45	0.24	
10	0.19	0.50	0.65	0.37	5.26	0.75	1.64	1.64	1.29	0.50	0.40	0.24	
11	0.19	0.55	0.42	0.35	5.00	0.71	2.00	1.23	1.20	0.50	0.36	0.24	
12	0.19	0.30	0.47	0.34	1.79	0.98	1.89	1.10	1.24	0.50	0.37	0.24	
13	0.19	0.27	0.48	0.34	1.34	1.75	1.85	1.04	1.21	0.50	0.35	0.24	
14	0.19	0.25	0.64	0.34	1.95	1.02	1.31	1.04	2.37	0.50	0.35	0.23	
15	0.19	0.52	0.56	0.32	1.25	1.06	1.25	2.85	1.39	0.50	0.33	0.23	
16	0.19	0.45	0.52	0.32	3.19	0.87	2.31	2.46	1.17	0.49	0.32	0.26	
17	0.18	0.53	0.46	0.32	5.27	0.85	2.34	2.40	1.04	0.48	0.32	0.28	
18	0.18	0.30	0.75	0.31	5.72	0.92	1.40	1.71	0.97	0.48	0.31	0.24	
19	0.18	0.30	0.75	0.48	4.03	0.88	1.48	1.34	0.96	0.47	0.31	0.22	
20	0.17	0.46	0.76	1.18	1.99	0.77	2.00	1.41	0.90	0.47	0.30	0.23	
21	0.16	0.65	2.22	0.60	1.57	0.73	2.40	1.66	0.86	0.45	0.30	0.22	
22	0.16	0.38	1.87	0.59	2.08	1.69	2.19	1.17	0.84	0.45	0.30	0.22	
23	0.19	0.28	0.57	0.57	2.00	0.96	1.76	1.14	0.82	0.45	0.30	0.22	
24	0.18	0.25	0.87	0.55	1.58	0.80	2.14	1.10	0.80	0.43	0.29	0.23	
25	0.18	0.60	0.70	0.59	1.29	1.52	1.31	1.02	0.79	0.43	0.29	0.28	
26	0.17	0.42	0.65	0.45	1.34	2.91	1.40	1.20	0.75	0.42	0.29	0.28	
27	0.15	0.29	0.65	0.72	1.20	1.31	1.89	1.09	0.74	0.42	0.29	0.28	
28	0.15	0.28	0.69	0.52	1.29	1.23	1.86	1.20	0.72	0.45	0.29	0.28	
29	0.15	0.89	0.60	0.44	1.29	1.14	1.81	1.01	0.70	0.45	0.29	0.25	
30	0.15	0.44	0.57	0.40	1.10	1.52	1.62	0.98	0.68	0.45		0.23	
31		0.46		0.38	1.00		1.58		0.67	0.45		0.22	
MEAN	0.18	0.40	0.87	0.48	1.88	1.06	1.62	1.39	1.19	0.50	0.36	0.25	
MAX	0.20	0.89	2.73	1.18	5.72	2.91	2.40	2.85	4.05	0.62	0.53	0.28	5.72
MIN	0.15	0.12	0.42	0.31	0.35	0.71	0.93	0.95	0.67	0.42	0.29	0.22	0.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.15 M (A.D), AT 18.00 HOURS, ON AUG 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.03 M (A.D)
LEFT BANK ELEVATION 7.06 M (A.D)
RIGHT BANK ELEVATION 9.03 M (A.D), DRAINAGE AREA 248 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.08	4.92	4.66	1.70	8.95	10.64	14.41	9.99	4.66	2.60	0.82	
2	0.36	0.28	2.60	7.13	1.90	8.04	12.20	11.68	14.80	4.66	2.60	0.82	
3	0.36	5.05	2.60	4.04	2.00	7.91	10.25	21.69	10.12	4.66	2.36	0.82	
4	0.40	2.60	20.13	3.32	1.50	7.52	8.69	13.76	7.91	4.53	2.24	0.76	
5	0.40	2.48	33.88	2.36	1.50	6.87	13.11	11.94	8.43	4.16	1.50	0.70	
6	0.36	1.00	16.36	2.48	1.70	6.48	24.98	11.55	25.12	3.80	2.96	0.70	
7	0.36	1.00	9.86	2.00	5.83	6.09	11.03	8.95	58.00	3.56	3.56	0.70	
8	0.36	1.00	8.17	1.70	7.78	7.78	9.47	9.60	21.56	3.56	2.96	0.64	
9	0.36	1.60	5.31	1.50	23.16	7.78	10.51	22.47	15.45	3.44	2.60	0.64	
10	0.36	3.20	5.05	1.70	88.80	6.35	17.92	17.92	13.37	3.20	2.00	0.64	
11	0.36	3.80	2.24	1.50	81.40	5.83	22.60	12.59	12.20	3.20	1.60	0.64	
12	0.36	1.00	2.84	1.40	19.87	9.34	21.17	10.90	12.72	3.20	1.70	0.64	
13	0.36	0.82	2.96	1.40	14.02	19.35	20.65	10.12	12.33	3.20	1.50	0.64	
14	0.36	0.70	4.92	1.40	21.95	9.86	13.63	10.12	28.12	3.20	1.50	0.58	
15	0.36	3.44	3.92	1.20	12.85	10.38	12.85	35.80	14.67	3.20	1.30	0.58	
16	0.36	2.60	3.44	1.20	41.43	7.91	27.16	29.56	11.81	3.08	1.20	0.76	
17	0.32	3.56	2.72	1.20	89.10	7.65	27.64	28.60	10.12	2.96	1.20	0.88	
18	0.32	1.00	6.35	1.10	103.36	8.56	14.80	18.83	9.21	2.96	1.10	0.64	
19	0.32	1.00	6.35	2.96	57.60	8.04	15.84	14.02	9.08	2.84	1.10	0.52	
20	0.28	2.72	6.48	11.94	22.47	6.61	22.60	14.93	8.30	2.84	1.00	0.58	
21	0.24	5.05	25.72	4.40	17.01	6.09	28.60	18.18	7.78	2.60	1.00	0.52	
22	0.24	1.80	20.91	4.28	23.72	18.57	25.26	11.81	7.52	2.60	1.00	0.52	
23	0.36	0.88	4.04	4.04	22.60	9.08	19.48	11.42	7.26	2.60	1.00	0.52	
24	0.32	0.70	7.91	3.80	17.14	7.00	24.56	10.90	7.00	2.36	0.94	0.58	
25	0.32	4.40	5.70	4.28	13.37	16.36	13.63	9.86	6.87	2.36	0.94	0.88	
26	0.28	2.24	5.05	2.60	14.02	36.76	14.80	12.20	6.35	2.24	0.94	0.88	
27	0.20	0.94	5.05	5.96	12.20	13.63	21.17	10.77	6.22	2.24	0.94	0.88	
28	0.20	0.88	5.57	3.44	13.37	12.59	20.78	12.20	5.96	2.60	0.94	0.88	
29	0.20	8.17	4.40	2.48	13.37	11.42	20.13	9.73	5.70	2.60	0.94	0.70	
30	0.20	2.48	4.04	2.00	10.90	16.36	17.66	9.34	5.44	2.60		0.58	
31		2.72		1.80	9.60		17.14		5.31	2.60		0.52	
TOTAL	9.64	69.19	239.49	95.27	767.22	315.16	550.95	445.85	384.72	98.31	47.22	21.16	3044.18 CMSDAY
MEAN	0.32	2.23	7.98	3.07	24.75	10.51	17.77	14.86	12.41	3.17	1.63	0.68	8.32 CMS
MAX	0.40	8.17	33.88	11.94	103.36	36.76	28.60	35.80	58.00	4.66	3.56	0.88	103.36 CMS
MIN	0.20	0.08	2.24	1.10	1.50	5.83	8.69	8.95	5.31	2.24	0.94	0.52	0.08 CMS
RUNOFF	0.833	5.978	20.692	8.231	66.288	27.230	47.602	38.521	33.240	8.494	4.080	1.828	263.017 MCM

MOMENTARY PEAK 118.40 CMS, AT 6.15 M (A.D), AT 18.00 HOURS, ON AUG 10, 1987

RUNOFF YIELD 33.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 477.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

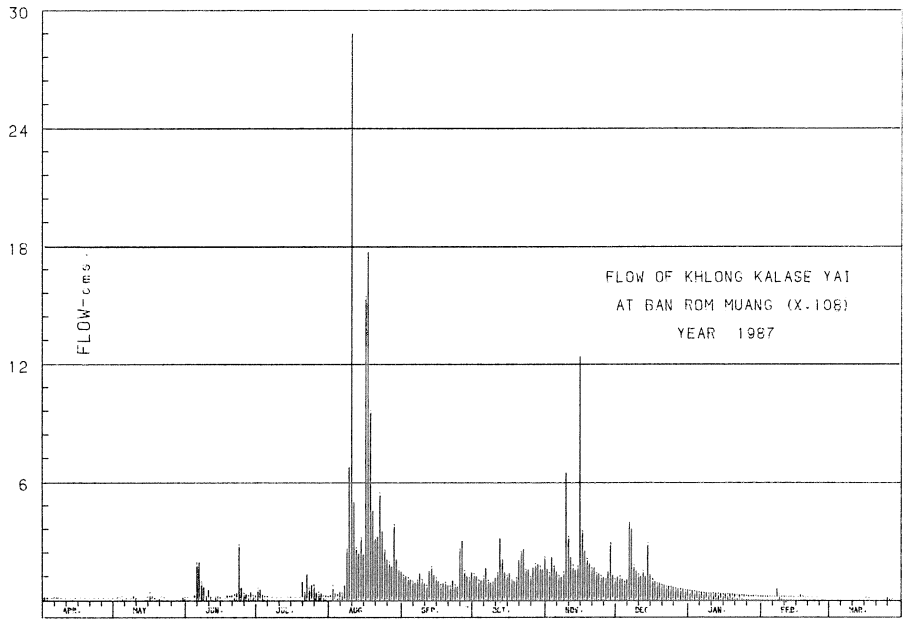
KHLONG KALASE YAI AT BAN ROM MUANG, TRANG (X.108)

LOCATION	LAT. 7°44'03" N., LONG. 99°20'00" E., ON RIGHT BANG AT BAN ROM MUANG, AMPHOE SIKAO, TANG.
DRAINAGE AREA	57 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE GAGE OBSERVER'S HOUSE.
ELEVATION	+4.771 M.(A.D.).
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 83 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.83	0.81	0.84	1.11	0.92	1.37	1.39	1.46	1.33	1.05	0.90	0.83	
2	0.83	0.84	0.83	1.06	1.18	1.34	1.34	1.41	1.35	1.03	0.89	0.83	
3	0.82	0.84	0.82	0.93	0.96	1.32	1.28	1.63	1.29	1.03	0.89	0.83	
4	0.82	0.89	0.91	0.90	0.94	1.28	1.26	1.51	1.25	1.02	0.89	0.82	
5	0.85	0.83	1.56	0.89	1.00	1.26	1.35	1.42	1.28	1.01	0.88	0.82	
6	0.84	0.80	1.56	0.86	0.98	1.22	1.47	1.36	2.07	1.00	0.88	0.82	
7	0.83	0.80	1.25	0.86	1.16	1.28	1.27	1.32	2.00	0.99	1.08	0.82	
8	0.82	0.80	1.12	0.85	1.75	1.39	1.22	1.42	1.52	0.98	0.94	0.82	
9	0.82	0.89	0.90	0.84	2.55	1.29	1.24	2.51	1.43	0.97	0.89	0.82	
10	0.82	0.82	1.05	0.85	4.39	1.21	1.31	1.91	1.39	0.97	0.89	0.82	
11	0.81	0.81	0.87	0.84	2.27	1.18	1.41	1.63	1.34	0.98	0.89	0.82	
12	0.81	0.79	0.83	0.83	1.77	1.43	1.88	1.52	1.44	0.97	0.88	0.81	
13	0.81	0.80	0.96	0.83	1.68	1.50	1.60	1.44	1.34	0.97	0.88	0.81	
14	0.81	0.85	0.88	0.87	1.90	1.36	1.41	1.51	1.83	0.96	0.87	0.81	
15	0.81	0.87	0.84	0.86	1.67	1.33	1.36	3.16	1.37	0.96	0.86	0.81	
16	0.82	1.00	0.82	0.85	3.42	1.25	1.39	1.98	1.30	0.95	0.87	0.84	
17	0.82	0.88	0.81	0.85	3.60	1.20	1.28	1.72	1.25	0.96	0.93	0.82	
18	0.81	0.82	0.91	0.85	2.89	1.21	1.25	1.62	1.22	0.95	0.90	0.81	
19	0.81	0.81	0.90	0.85	2.19	1.24	1.32	1.54	1.22	0.95	0.87	0.81	
20	0.81	0.90	0.91	1.24	1.91	1.16	1.59	1.48	1.19	0.94	0.86	0.81	
21	0.81	0.87	0.94	1.00	1.90	1.16	1.71	1.48	1.17	0.94	0.85	0.80	
22	0.81	0.84	0.97	1.38	2.36	1.26	1.74	1.41	1.15	0.93	0.85	0.80	
23	0.81	0.81	1.81	1.11	1.97	1.19	1.46	1.39	1.14	0.93	0.85	0.80	
24	0.81	0.82	1.11	1.17	1.74	1.13	1.45	1.36	1.14	0.93	0.85	0.80	
25	0.81	0.82	0.98	1.19	1.60	1.75	1.34	1.32	1.12	0.92	0.84	0.94	
26	0.80	0.81	0.94	0.98	1.57	1.85	1.48	1.30	1.11	0.91	0.84	0.81	
27	0.80	0.80	0.92	1.01	1.49	1.44	1.54	1.42	1.08	0.91	0.84	0.79	
28	0.80	0.79	0.99	0.96	2.05	1.34	1.53	1.83	1.09	0.91	0.83	0.78	
29	0.79	0.80	0.93	0.92	1.60	1.32	1.51	1.36	1.07	0.91	0.83	0.77	
30	0.80	0.93	0.91	0.91	1.49	1.41	1.45	1.30	1.06	0.90		0.77	
31		0.85		0.89	1.42		1.64		1.05	0.90		0.76	
MEAN	0.81	0.84	1.00	0.95	1.88	1.32	1.43	1.59	1.31	0.96	0.88	0.81	
MAX	0.85	1.00	1.81	1.38	4.39	1.85	1.88	3.16	2.07	1.05	1.08	0.94	4.39
MIN	0.79	0.79	0.81	0.83	0.92	1.13	1.22	1.30	1.05	0.90	0.83	0.76	0.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.40 M (A.D), AT 6.00 HOURS, ON AUG 10, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.24 M (A.D)
LEFT BANK ELEVATION 6.20 M (A.D)
RIGHT BANK ELEVATION 6.26 M (A.D), DRAINAGE AREA 57 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.11	0.15	0.64	0.26	1.30	1.35	1.58	1.18	0.52	0.22	0.14	
2	0.14	0.15	0.14	0.54	0.78	1.21	1.21	1.41	1.24	0.48	0.21	0.14	
3	0.12	0.15	0.12	0.28	0.34	1.16	1.04	2.17	1.07	0.48	0.21	0.14	
4	0.12	0.21	0.24	0.22	0.30	1.04	0.99	1.75	0.96	0.46	0.21	0.12	
5	0.16	0.14	1.92	0.21	0.42	0.99	1.24	1.45	1.04	0.44	0.20	0.12	
6	0.15	0.10	1.92	0.17	0.38	0.88	1.62	1.27	3.96	0.42	0.20	0.12	
7	0.14	0.10	0.96	0.17	0.74	1.04	1.02	1.16	3.62	0.40	0.58	0.12	
8	0.12	0.10	0.66	0.16	2.62	1.35	0.88	1.45	1.79	0.38	0.30	0.12	
9	0.12	0.21	0.22	0.15	6.75	1.07	0.93	6.47	1.48	0.36	0.21	0.12	
10	0.12	0.12	0.52	0.16	28.95	0.85	1.13	3.25	1.35	0.36	0.21	0.12	
11	0.11	0.11	0.18	0.15	4.97	0.78	1.41	2.17	1.21	0.38	0.21	0.12	
12	0.11	0.10	0.14	0.14	2.69	1.48	3.13	1.79	1.52	0.36	0.20	0.11	
13	0.11	0.10	0.34	0.14	2.36	1.72	2.06	1.52	1.21	0.36	0.20	0.11	
14	0.11	0.16	0.20	0.18	3.21	1.27	1.41	1.75	2.92	0.34	0.18	0.11	
15	0.11	0.18	0.15	0.17	2.32	1.18	1.27	12.38	1.30	0.34	0.17	0.11	
16	0.12	0.42	0.12	0.16	15.45	0.96	1.35	3.54	1.10	0.32	0.18	0.15	
17	0.12	0.20	0.11	0.16	17.70	0.82	1.04	2.50	0.96	0.34	0.28	0.12	
18	0.11	0.12	0.24	0.16	9.66	0.85	0.96	2.13	0.88	0.32	0.22	0.11	
19	0.11	0.11	0.22	0.16	4.53	0.93	1.16	1.86	0.88	0.32	0.18	0.11	
20	0.11	0.22	0.24	0.93	3.25	0.74	2.03	1.65	0.80	0.30	0.17	0.11	
21	0.11	0.18	0.30	0.42	3.21	0.74	2.47	1.65	0.76	0.30	0.16	0.10	
22	0.11	0.15	0.36	1.32	5.48	0.99	2.58	1.41	0.72	0.28	0.16	0.10	
23	0.11	0.11	2.84	0.64	3.50	0.80	1.58	1.35	0.70	0.28	0.16	0.10	
24	0.11	0.12	0.64	0.76	2.58	0.68	1.55	1.27	0.70	0.28	0.16	0.10	
25	0.11	0.12	0.38	0.80	2.06	2.62	1.21	1.16	0.66	0.26	0.15	0.30	
26	0.10	0.11	0.30	0.38	1.96	3.01	1.65	1.10	0.64	0.24	0.15	0.11	
27	0.10	0.10	0.26	0.44	1.69	1.52	1.86	1.45	0.58	0.24	0.15	0.10	
28	0.10	0.10	0.40	0.34	3.86	1.21	1.82	2.92	0.60	0.24	0.14	0.09	
29	0.10	0.10	0.28	0.26	2.06	1.16	1.75	1.27	0.56	0.24	0.14	0.08	
30	0.10	0.28	0.24	0.24	1.69	1.41	1.55	1.10	0.54	0.22		0.08	
31		0.16		0.21	1.45		2.21		0.52	0.22		0.08	
TOTAL	3.50	4.64	14.79	10.86	137.22	35.76	47.46	67.93	37.45	10.48	5.91	3.66	379.66 CMSDAY
MEAN	0.12	0.15	0.49	0.35	4.43	1.19	1.53	2.26	1.21	0.34	0.20	0.12	1.04 CMS
MAX	0.16	0.42	2.84	1.32	28.95	3.01	3.13	12.38	3.96	0.52	0.58	0.30	28.95 CMS
MIN	0.10	0.10	0.11	0.14	0.26	0.68	0.88	1.10	0.52	0.22	0.14	0.08	0.08 CMS
RUNOFF	0.302	0.401	1.278	0.938	11.856	3.090	4.101	5.869	3.236	0.905	0.511	0.316	32.803 MCM

MOMENTARY PEAK 45.40 CMS, AT 5.40 M (A.D), AT 6.00 HOURS, ON AUG 10, 1987
RUNOFF YIELD 18.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 796.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

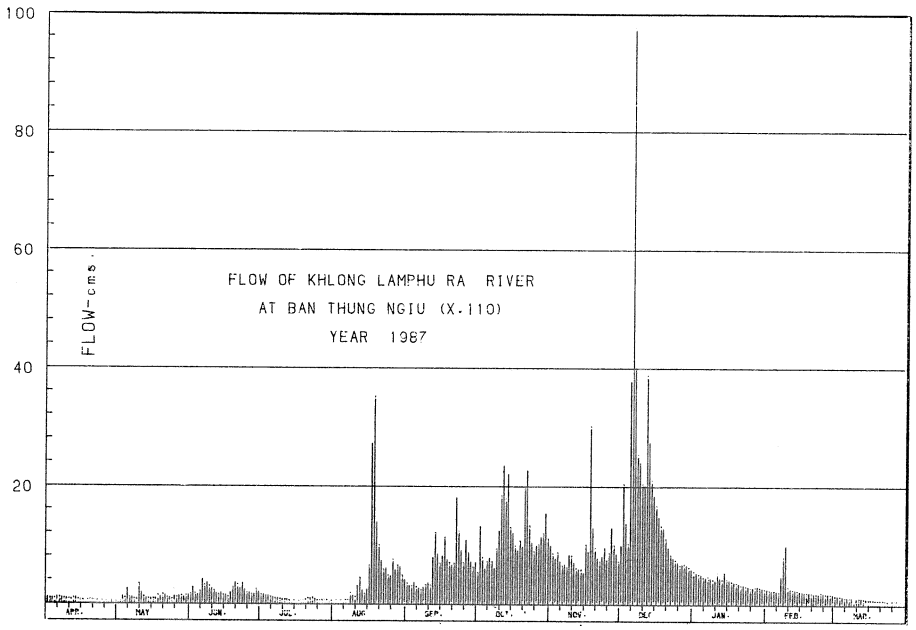
KHLONG LAMPHU LA AT BAN THUNG NGIU, TRANG (X.110)

LOCATION	LAT. 7°-40'-24" N., LONG. 99°-35'-05" E., ON RIGHT BANK AT BAN THUNG NGIU, AMPHOE HUAI YOT, TRANG.
DRAINAGE AREA	229 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE SITE.
ELEVATION	+5.612 M.(A.D.)
GAGE READING FREQUENCY	5-TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 66 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.27	0.47	0.46	0.30	0.70	0.89	1.30	1.30	0.91	0.58	0.44	
2	0.37	0.31	0.61	0.45	0.31	0.65	1.56	1.19	2.08	0.88	0.56	0.43	
3	0.36	0.41	0.48	0.43	0.30	0.65	1.13	1.11	1.60	0.86	0.55	0.43	
4	0.36	0.38	0.45	0.43	0.30	0.71	0.95	1.21	1.33	0.85	0.55	0.42	
5	0.39	0.58	0.53	0.41	0.31	0.63	1.07	1.07	3.00	0.81	0.53	0.40	
6	0.39	0.39	0.76	0.39	0.32	0.60	1.12	1.00	4.67	0.80	0.52	0.40	
7	0.37	0.38	0.66	0.37	0.32	0.57	1.07	1.02	3.09	0.82	0.82	0.39	
8	0.36	0.35	0.70	0.36	0.50	0.62	0.96	0.98	2.40	0.79	1.14	0.39	
9	0.35	0.35	0.64	0.35	0.43	0.67	1.26	1.17	2.31	0.77	1.30	0.37	
10	0.34	0.68	0.59	0.34	0.41	0.70	1.50	1.16	2.08	0.75	0.63	0.37	
11	0.33	0.49	0.55	0.33	0.65	0.66	1.95	1.05	2.06	0.89	0.59	0.39	
12	0.37	0.41	0.48	0.33	0.80	1.13	2.28	0.96	3.04	0.79	0.57	0.38	
13	0.37	0.36	0.46	0.31	0.55	1.48	1.91	0.94	2.51	0.77	0.56	0.37	
14	0.33	0.35	0.49	0.30	0.48	1.18	2.19	0.94	2.12	0.89	0.55	0.36	
15	0.31	0.35	0.45	0.30	0.57	1.04	1.55	0.88	1.94	0.77	0.53	0.34	
16	0.30	0.36	0.44	0.30	1.01	1.15	1.47	1.32	1.83	0.75	0.52	0.35	
17	0.30	0.35	0.41	0.29	2.50	1.42	1.30	1.22	1.68	0.73	0.51	0.34	
18	0.30	0.44	0.49	0.30	2.89	1.10	1.23	2.66	1.57	0.71	0.51	0.33	
19	0.32	0.40	0.62	0.31	1.61	1.05	1.37	1.54	1.53	0.70	0.50	0.33	
20	0.31	0.46	0.70	0.33	1.31	1.01	1.28	1.27	1.40	0.69	0.49	0.33	
21	0.30	0.43	0.67	0.37	1.08	1.04	2.05	1.12	1.27	0.66	0.48	0.33	
22	0.29	0.39	0.59	0.36	0.94	1.92	2.23	1.07	1.17	0.66	0.48	0.32	
23	0.29	0.37	0.69	0.39	0.96	1.50	1.57	1.14	1.12	0.64	0.47	0.30	
24	0.28	0.34	0.56	0.35	0.84	1.23	1.34	1.27	1.09	0.63	0.51	0.30	
25	0.28	0.41	0.50	0.32	0.83	1.05	1.22	1.09	1.05	0.61	0.49	0.31	
26	0.28	0.40	0.49	0.31	1.10	1.38	1.30	1.20	1.01	0.61	0.48	0.32	
27	0.28	0.42	0.47	0.32	0.93	1.20	1.32	1.54	1.02	0.62	0.47	0.31	
28	0.28	0.43	0.46	0.32	1.01	1.06	1.42	1.31	1.03	0.63	0.47	0.30	
29	0.28	0.39	0.58	0.32	0.98	0.98	1.47	1.18	1.01	0.62	0.46	0.29	
30	0.27	0.44	0.51	0.31	0.84	1.05	1.73	1.07	0.98	0.60		0.28	
31		0.44		0.30	0.76		1.40		0.94	0.59		0.29	
MEAN	0.32	0.40	0.55	0.35	0.84	1.00	1.45	1.20	1.78	0.74	0.58	0.35	
MAX	0.39	0.68	0.76	0.46	2.89	1.92	2.28	2.66	4.67	0.91	1.30	0.44	4.67
MIN	0.27	0.27	0.41	0.29	0.30	0.57	0.89	0.88	0.94	0.59	0.46	0.28	0.27

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.93 M (A.D), AT 6.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 6.54 M (A.D)
RIGHT BANK ELEVATION 6.04 M (A.D), DRAINAGE AREA 229 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	0.42	1.73	1.65	0.60	3.60	5.40	9.90	9.90	5.60	2.55	1.50	
2	1.02	0.66	2.79	1.57	0.66	3.15	13.18	8.59	20.40	5.30	2.40	1.43	
3	0.96	1.27	1.80	1.43	0.60	3.15	7.93	7.71	13.70	5.10	2.33	1.43	
4	0.96	1.08	1.57	1.43	0.60	3.69	6.00	8.82	10.26	5.00	2.33	1.35	
5	1.14	2.55	2.17	1.27	0.66	2.97	7.27	7.27	37.80	4.60	2.17	1.20	
6	1.14	1.14	4.14	1.14	0.72	2.70	7.82	6.50	97.63	4.50	2.10	1.20	
7	1.02	1.08	3.24	1.02	0.72	2.48	7.27	6.72	40.09	4.70	4.70	1.14	
8	0.96	0.90	3.60	0.96	1.95	2.88	6.10	6.30	25.40	4.41	8.04	1.14	
9	0.90	0.90	3.06	0.90	1.43	3.33	9.42	8.37	23.96	4.23	9.90	1.02	
10	0.84	3.42	2.62	0.84	1.27	3.60	12.40	8.26	20.40	4.05	2.97	1.02	
11	0.78	1.88	2.33	0.78	3.15	3.24	18.47	7.05	20.10	5.40	2.62	1.14	
12	1.02	1.27	1.80	0.78	4.50	7.93	23.48	6.10	38.82	4.41	2.48	1.08	
13	1.02	0.96	1.65	0.66	2.33	12.14	17.89	5.90	27.38	4.23	2.40	1.02	
14	0.78	0.90	1.88	0.60	1.80	8.48	22.05	5.90	21.00	5.40	2.33	0.96	
15	0.66	0.90	1.57	0.60	2.48	6.94	13.05	5.30	18.33	4.23	2.17	0.84	
16	0.60	0.96	1.50	0.60	6.61	8.15	12.01	10.14	16.73	4.05	2.10	0.90	
17	0.60	0.90	1.27	0.54	27.20	11.36	9.90	8.94	14.74	3.87	2.02	0.84	
18	0.60	1.50	1.88	0.60	35.16	7.60	9.06	30.20	13.31	3.69	2.02	0.78	
19	0.72	1.20	2.88	0.66	13.83	7.05	10.74	12.92	12.79	3.60	1.95	0.78	
20	0.66	1.65	3.60	0.78	10.02	6.61	9.66	9.54	11.10	3.51	1.88	0.78	
21	0.60	1.43	3.33	1.02	7.38	6.94	19.95	7.82	9.54	3.24	1.80	0.78	
22	0.54	1.14	2.62	0.96	5.90	18.04	22.68	7.27	8.37	3.24	1.80	0.72	
23	0.54	1.02	3.51	1.14	6.10	12.40	13.31	8.04	7.82	3.06	1.73	0.60	
24	0.48	0.84	2.40	0.90	4.90	9.06	10.38	9.54	7.49	2.97	2.02	0.60	
25	0.48	1.27	1.95	0.72	4.80	7.05	8.94	7.49	7.05	2.79	1.88	0.66	
26	0.48	1.20	1.88	0.66	7.60	10.86	9.90	8.70	6.61	2.79	1.80	0.72	
27	0.48	1.35	1.73	0.72	5.80	8.70	10.14	12.92	6.72	2.88	1.73	0.66	
28	0.48	1.43	1.65	0.72	6.61	7.16	11.36	10.02	6.83	2.97	1.73	0.60	
29	0.48	1.14	2.55	0.72	6.30	6.30	12.01	8.48	6.61	2.88	1.65	0.54	
30	0.42	1.50	2.02	0.66	4.90	7.05	15.39	7.27	6.30	2.70		0.48	
31		1.50		0.60	4.14		11.10		5.90	2.62		0.54	
TOTAL	22.44	39.36	70.72	27.63	180.72	204.61	374.26	267.98	573.08	122.02	77.60	28.45	1988.87 CMSDAY
MEAN	0.75	1.27	2.36	0.89	5.83	6.82	12.07	8.93	18.49	3.94	2.68	0.92	5.43 CMS
MAX	1.14	3.42	4.14	1.65	35.16	18.04	23.48	30.20	97.63	5.60	9.90	1.50	97.63 CMS
MIN	0.42	0.42	1.27	0.54	0.60	2.48	5.40	5.30	5.90	2.62	1.65	0.48	0.42 CMS
RUNOFF	1.939	3.401	6.110	2.387	15.614	17.678	32.336	23.153	49.514	10.543	6.705	2.458	171.838 MCM

MOMENTARY PEAK 110.50 CMS, AT 4.93 M (A.D), AT 6.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 23.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 482.53 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

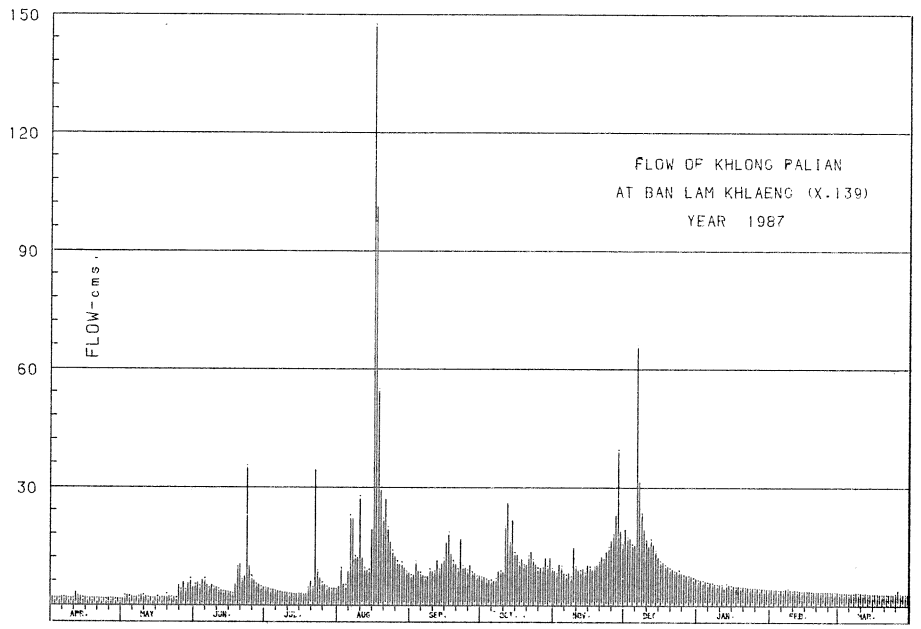
KHLONG PALIAN AT BAN LAM KHLAENG(2), TRANG (X.139)

LOCATION	LAT. 7°19'08" N., LONG. 99°49'03" N., ON RIGHT BANK AT BAN LAM KHLAENG(2), AMPHOE PALIAN, TRANG.
DRAINAGE AREA	153 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 11 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.106 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1983 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1983 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +4.27 M.(A.D.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 129 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.57	1.01	0.91	0.93	1.20	1.16	1.27	1.91	1.10	0.86	0.76	
2	0.61	0.70	1.03	0.89	1.34	1.19	1.15	1.23	1.82	1.09	0.85	0.76	
3	0.61	0.68	0.97	0.85	1.00	1.47	1.12	1.39	1.80	1.08	0.86	0.76	
4	0.61	0.68	1.09	0.85	1.00	1.27	1.09	1.37	1.72	1.07	0.84	0.75	
5	0.63	0.65	1.13	0.83	1.26	1.25	1.10	1.22	1.70	1.05	0.84	0.75	
6	0.64	0.63	0.98	0.81	2.09	1.18	1.07	1.20	3.70	1.04	0.84	0.75	
7	0.62	0.63	0.91	0.79	2.04	1.16	1.13	1.23	2.48	1.03	0.86	0.75	
8	0.61	0.66	0.98	0.78	1.55	1.16	1.26	1.17	2.11	1.01	0.89	0.77	
9	0.60	0.69	0.93	0.77	1.52	1.32	1.28	1.66	1.91	1.00	0.84	0.78	
10	0.61	0.71	0.91	0.76	2.32	1.26	1.24	1.37	1.78	0.99	0.83	0.76	
11	0.76	0.65	0.88	0.75	1.51	1.28	1.96	1.28	1.68	1.00	0.84	0.75	
12	0.68	0.63	0.83	0.74	1.34	1.47	2.23	1.29	1.80	0.88	0.83	0.75	
13	0.64	0.61	0.81	0.73	1.28	1.31	1.75	1.31	1.71	1.02	0.82	0.74	
14	0.62	0.60	0.80	0.73	1.31	1.41	2.02	1.24	1.63	0.98	0.81	0.73	
15	0.61	0.60	0.78	0.74	1.91	1.52	1.60	1.38	1.52	0.97	0.81	0.73	
16	0.60	0.66	0.77	0.74	5.41	1.74	1.56	1.36	1.46	0.95	0.82	0.74	
17	0.60	0.61	0.76	0.72	4.54	1.89	1.44	1.28	1.43	0.94	0.81	0.73	
18	0.60	0.63	0.99	0.72	3.37	1.57	1.49	1.36	1.39	0.94	0.80	0.72	
19	0.60	0.62	1.36	0.93	2.38	1.48	1.40	1.38	1.36	0.93	0.79	0.72	
20	0.60	0.74	1.40	1.06	2.05	1.40	1.39	1.45	1.33	0.93	0.79	0.73	
21	0.59	0.65	1.11	0.93	2.28	1.32	1.55	1.53	1.30	0.92	0.79	0.72	
22	0.59	0.64	1.16	2.60	1.95	1.79	1.60	1.50	1.27	0.91	0.79	0.72	
23	0.58	0.62	2.65	1.29	1.75	1.38	1.50	1.60	1.26	0.90	0.79	0.72	
24	0.58	0.62	1.36	1.13	1.63	1.33	1.40	1.68	1.29	0.90	0.79	0.72	
25	0.59	0.97	1.18	1.05	1.53	1.29	1.34	1.77	1.22	0.90	0.79	0.74	
26	0.60	0.87	1.08	0.98	1.47	1.38	1.33	1.86	1.20	0.89	0.79	0.83	
27	0.59	1.04	1.02	0.94	1.40	1.26	1.34	2.08	1.18	0.88	0.78	0.74	
28	0.58	0.86	0.99	0.90	1.45	1.22	1.51	2.81	1.18	0.88	0.78	0.72	
29	0.57	1.02	0.95	0.88	1.33	1.18	1.37	1.89	1.16	0.87	0.78	0.72	
30	0.57	1.13	0.91	0.89	1.27	1.18	1.51	1.72	1.14	0.87		0.72	
31		0.91		0.88	1.23		1.33		1.12	0.86		0.71	
MEAN	0.61	0.72	1.06	0.92	1.85	1.36	1.43	1.50	1.60	0.96	0.82	0.74	
MAX	0.76	1.13	2.65	2.60	5.41	1.89	2.23	2.81	3.70	1.10	0.89	0.83	5.41
MIN	0.57	0.57	0.76	0.72	0.93	1.16	1.07	1.17	1.12	0.86	0.78	0.71	0.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.08 M (A.D), AT 12.00 HOURS, ON AUG 16, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.06 M (A.D)
LEFT BANK ELEVATION 4.26 M (A.D)
RIGHT BANK ELEVATION 5.08 M (A.D), DRAINAGE AREA 153 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.96	1.56	5.42	4.49	4.67	7.80	7.28	8.71	19.21	6.50	4.04	3.14	
2	1.88	2.60	5.66	4.31	9.62	7.67	7.15	8.19	17.32	6.38	3.95	3.14	
3	1.88	2.44	5.03	3.95	5.30	11.38	6.76	10.27	16.90	6.26	4.04	3.14	
4	1.88	2.44	6.38	3.95	5.30	8.71	6.38	10.01	15.54	6.14	3.86	3.05	
5	2.04	2.20	6.89	3.77	8.58	8.45	6.50	8.06	15.20	5.90	3.86	3.05	
6	2.12	2.04	5.12	3.59	22.99	7.54	6.14	7.80	66.20	5.78	3.86	3.05	
7	1.96	2.04	4.49	3.41	21.94	7.28	6.89	8.19	31.36	5.66	4.04	3.05	
8	1.88	2.28	5.12	3.32	12.65	7.28	8.58	7.41	23.41	5.42	4.31	3.23	
9	1.80	2.52	4.67	3.23	12.14	9.36	8.84	14.52	19.21	5.30	3.86	3.32	
10	1.88	2.69	4.49	3.14	27.84	8.58	8.32	10.01	16.56	5.21	3.77	3.14	
11	3.14	2.20	4.22	3.05	11.97	8.84	20.26	8.84	14.86	5.30	3.86	3.05	
12	2.44	2.04	3.77	2.96	9.62	11.38	25.93	8.97	16.90	4.22	3.77	3.05	
13	2.12	1.88	3.59	2.87	8.84	9.23	16.05	9.23	15.37	5.54	3.68	2.96	
14	1.96	1.80	3.50	2.87	9.23	10.54	21.52	8.32	14.01	5.12	3.59	2.87	
15	1.88	1.80	3.32	2.96	19.21	12.14	13.50	10.14	12.14	5.03	3.59	2.87	
16	1.80	2.28	3.23	2.96	147.70	15.88	12.82	9.88	11.24	4.85	3.68	2.96	
17	1.80	1.88	3.14	2.78	101.12	18.79	10.96	8.84	10.82	4.76	3.59	2.87	
18	1.80	2.04	5.21	2.78	55.10	12.99	11.66	9.88	10.27	4.76	3.50	2.78	
19	1.80	1.96	9.88	4.67	29.16	11.52	10.40	10.14	9.88	4.67	3.41	2.78	
20	1.80	2.96	10.40	6.02	22.15	10.40	10.27	11.10	9.49	4.67	3.41	2.87	
21	1.72	2.20	6.63	4.67	26.98	9.36	12.65	12.31	9.10	4.58	3.41	2.78	
22	1.72	2.12	7.28	34.30	20.05	16.73	13.50	11.80	8.71	4.49	3.41	2.78	
23	1.64	1.96	35.55	8.97	16.05	10.14	11.80	13.50	8.58	4.40	3.41	2.78	
24	1.64	1.96	9.88	6.89	14.01	9.49	10.40	14.86	8.97	4.40	3.41	2.78	
25	1.72	5.03	7.54	5.90	12.31	8.97	9.62	16.39	8.06	4.40	3.41	2.96	
26	1.80	4.13	6.26	5.12	11.38	10.14	9.49	18.16	7.80	4.31	3.41	3.77	
27	1.72	5.78	5.54	4.76	10.40	8.58	9.62	22.78	7.54	4.22	3.32	2.96	
28	1.64	4.04	5.21	4.40	11.10	8.06	11.97	39.55	7.54	4.22	3.32	2.78	
29	1.56	5.54	4.85	4.22	9.49	7.54	10.01	18.79	7.28	4.13	3.32	2.78	
30	1.56	6.89	4.49	4.31	8.71	7.54	11.97	15.54	7.02	4.13		2.78	
31		4.49		4.22	8.19		9.49		6.76	4.04		2.69	
TOTAL	56.54	87.79	196.76	158.84	693.80	302.31	346.73	372.19	453.25	154.79	106.09	92.21	3021.30 CMSDAY
MEAN	1.88	2.83	6.56	5.12	22.38	10.08	11.18	12.41	14.62	4.99	3.66	2.97	8.25 CMS
MAX	3.14	6.89	35.55	34.30	147.70	18.79	25.93	39.55	66.20	6.50	4.31	3.77	147.70 CMS
MIN	1.56	1.56	3.14	2.78	4.67	7.28	6.14	7.41	6.76	4.04	3.32	2.69	1.56 CMS
RUNOFF	4.885	7.585	17.000	13.724	59.944	26.120	29.957	32.157	39.161	13.374	9.166	7.967	261.040 MCM

MOMENTARY PEAK 199.30 CMS, AT 6.08 M (A.D), AT 12.00 HOURS, ON AUG 16, 1987
RUNOFF YIELD 53.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1302.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

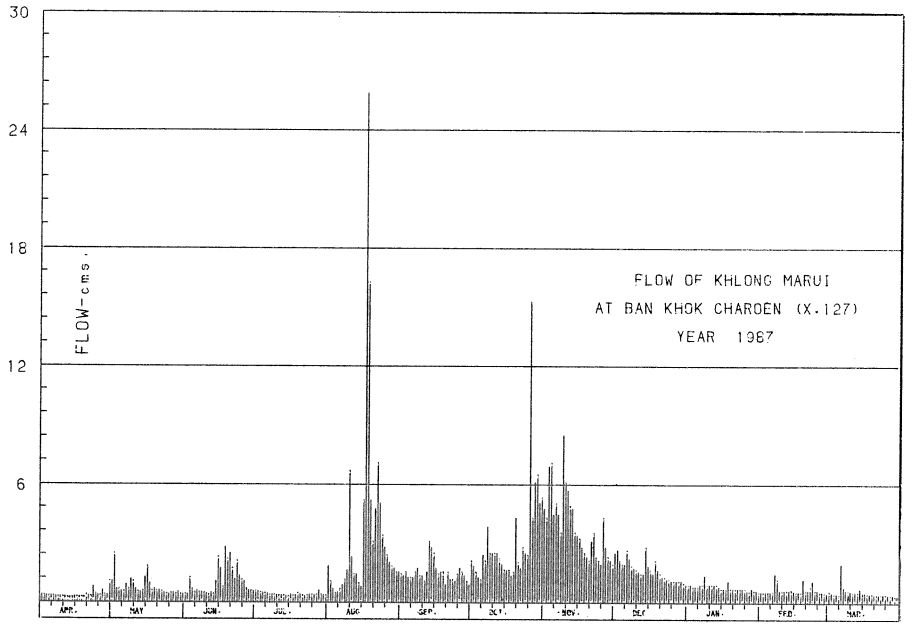
KHLONG MARUI AT BAN KHOK CHAROEN, PHANGNGA (X.127)

LOCATION	LAT. 8°-32'-10" N., LONG. 98-39-17 E., ON LEFT BANK ABOUT 3 KILOMETERS FROM AMPHOE THAP PUT, BAN KHOK CHAROEN, AMPHOE THAP PUT, PHANGNGA.
DRAINAGE AREA	78 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 4 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+4.565 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	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.25	0.16	0.20	0.33	0.29	0.36	0.55	0.40	0.23	0.18	0.19	
2	0.14	0.40	0.15	0.19	0.25	0.28	0.33	0.52	0.41	0.23	0.18	0.17	
3	0.13	0.21	0.27	0.18	0.21	0.30	0.30	0.67	0.36	0.22	0.18	0.16	
4	0.13	0.21	0.21	0.17	0.17	0.27	0.27	0.68	0.34	0.22	0.18	0.16	
5	0.13	0.19	0.18	0.17	0.18	0.27	0.26	0.53	0.34	0.22	0.18	0.15	
6	0.13	0.19	0.20	0.16	0.21	0.27	0.39	0.57	0.41	0.23	0.19	0.34	
7	0.12	0.23	0.18	0.15	0.23	0.30	0.36	0.53	0.37	0.23	0.29	0.23	
8	0.12	0.21	0.18	0.15	0.26	0.32	0.49	0.47	0.33	0.28	0.26	0.20	
9	0.12	0.26	0.17	0.15	0.31	0.28	0.40	0.75	0.32	0.23	0.20	0.20	
10	0.12	0.25	0.16	0.14	0.66	0.28	0.40	0.63	0.31	0.23	0.20	0.19	
11	0.12	0.21	0.15	0.14	0.38	0.25	0.40	0.61	0.30	0.23	0.20	0.18	
12	0.11	0.19	0.17	0.14	0.29	0.30	0.40	0.56	0.29	0.23	0.20	0.18	
13	0.11	0.18	0.16	0.14	0.29	0.44	0.37	0.55	0.29	0.23	0.20	0.18	
14	0.11	0.20	0.25	0.13	0.24	0.42	0.34	0.47	0.42	0.22	0.20	0.21	
15	0.12	0.27	0.38	0.13	0.22	0.40	0.31	0.46	0.33	0.21	0.19	0.17	
16	0.12	0.33	0.32	0.15	0.58	0.32	0.31	0.45	0.31	0.21	0.18	0.17	
17	0.12	0.24	0.22	0.14	1.30	0.29	0.31	0.42	0.29	0.21	0.18	0.16	
18	0.12	0.20	0.42	0.14	1.03	0.30	0.28	0.40	0.36	0.25	0.18	0.16	
19	0.12	0.21	0.37	0.17	0.58	0.30	0.30	0.38	0.31	0.21	0.26	0.16	
20	0.15	0.20	0.40	0.15	0.44	0.28	0.52	0.36	0.29	0.21	0.20	0.15	
21	0.13	0.20	0.32	0.14	0.55	0.30	0.35	0.44	0.27	0.21	0.20	0.15	
22	0.13	0.19	0.26	0.13	0.68	0.26	0.32	0.47	0.27	0.21	0.22	0.15	
23	0.22	0.17	0.36	0.14	0.57	0.26	0.42	0.38	0.26	0.21	0.25	0.15	
24	0.16	0.16	0.28	0.15	0.46	0.25	0.40	0.36	0.26	0.21	0.20	0.15	
25	0.14	0.15	0.26	0.15	0.42	0.29	0.39	0.34	0.25	0.21	0.20	0.15	
26	0.14	0.17	0.25	0.14	0.39	0.32	1.00	0.52	0.25	0.19	0.18	0.14	
27	0.20	0.17	0.21	0.15	0.35	0.30	0.52	0.42	0.25	0.19	0.18	0.14	
28	0.15	0.16	0.20	0.20	0.33	0.28	0.63	0.38	0.25	0.21	0.17	0.14	
29	0.14	0.18	0.20	0.15	0.32	0.25	0.65	0.36	0.25	0.20	0.16	0.13	
30	0.25	0.16	0.19	0.14	0.30	0.23	0.57	0.34	0.24	0.20		0.13	
31		0.15		0.14	0.30		0.59		0.23	0.18		0.13	
MEAN	0.14	0.21	0.24	0.15	0.41	0.30	0.42	0.49	0.31	0.22	0.20	0.17	
MAX	0.25	0.40	0.42	0.20	1.30	0.44	1.00	0.75	0.42	0.28	0.29	0.34	1.30
MIN	0.11	0.15	0.15	0.13	0.17	0.23	0.26	0.34	0.23	0.18	0.16	0.13	0.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.18 M (A.D), AT 18.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.64 M (A.D)
LEFT BANK ELEVATION 3.54 M (A.D)
RIGHT BANK ELEVATION 3.58 M (A.D), DRAINAGE AREA 78 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	1.08	0.44	0.60	1.84	1.45	2.12	4.75	2.50	0.89	0.52	0.56	
2	0.36	2.50	0.40	0.56	1.08	1.36	1.84	4.30	2.65	0.89	0.52	0.48	
3	0.32	0.69	1.27	0.52	0.69	1.55	1.55	6.90	2.12	0.79	0.52	0.44	
4	0.32	0.69	0.69	0.48	0.48	1.27	1.27	7.10	1.93	0.79	0.52	0.44	
5	0.32	0.56	0.52	0.48	0.52	1.27	1.17	4.45	1.93	0.79	0.52	0.40	
6	0.32	0.56	0.60	0.44	0.69	1.27	2.41	5.05	2.65	0.89	0.56	1.93	
7	0.28	0.89	0.52	0.40	0.89	1.55	2.12	4.45	2.22	0.89	1.45	0.89	
8	0.28	0.69	0.52	0.40	1.17	1.74	3.85	3.55	1.84	1.36	1.17	0.60	
9	0.28	1.17	0.48	0.40	1.65	1.36	2.50	8.50	1.74	0.89	0.60	0.60	
10	0.28	1.08	0.44	0.36	6.70	1.36	2.50	6.10	1.65	0.89	0.60	0.56	
11	0.28	0.69	0.40	0.36	2.31	1.08	2.50	5.70	1.55	0.89	0.60	0.52	
12	0.24	0.56	0.48	0.36	1.45	1.55	2.50	4.90	1.45	0.89	0.60	0.52	
13	0.24	0.52	0.44	0.36	1.45	3.10	2.22	4.75	1.45	0.89	0.60	0.52	
14	0.24	0.60	1.08	0.32	0.98	2.80	1.93	3.55	2.80	0.79	0.60	0.69	
15	0.28	1.27	2.31	0.32	0.79	2.50	1.65	3.40	1.84	0.69	0.56	0.48	
16	0.28	1.84	1.74	0.40	5.20	1.74	1.65	3.25	1.65	0.69	0.52	0.48	
17	0.28	0.98	0.79	0.36	25.90	1.45	1.65	2.80	1.45	0.69	0.52	0.44	
18	0.28	0.60	2.80	0.36	16.30	1.55	1.36	2.50	2.12	1.08	0.52	0.44	
19	0.28	0.69	2.22	0.48	5.20	1.55	1.55	2.31	1.65	0.69	1.17	0.44	
20	0.40	0.60	2.50	0.40	3.10	1.36	4.30	2.12	1.45	0.69	0.60	0.40	
21	0.32	0.60	1.74	0.36	4.75	1.55	2.03	3.10	1.27	0.69	0.60	0.40	
22	0.32	0.56	1.17	0.32	7.10	1.17	1.74	3.55	1.27	0.69	0.79	0.40	
23	0.79	0.48	2.12	0.36	5.05	1.17	2.80	2.31	1.17	0.69	1.08	0.40	
24	0.44	0.44	1.36	0.40	3.40	1.08	2.50	2.12	1.17	0.69	0.60	0.40	
25	0.36	0.40	1.17	0.40	2.80	1.45	2.41	1.93	1.08	0.69	0.60	0.40	
26	0.36	0.48	1.08	0.36	2.41	1.74	15.30	4.30	1.08	0.56	0.52	0.36	
27	0.60	0.48	0.69	0.40	2.03	1.55	4.30	2.80	1.08	0.56	0.52	0.36	
28	0.40	0.44	0.60	0.60	1.84	1.36	6.10	2.31	1.08	0.69	0.48	0.36	
29	0.36	0.52	0.60	0.40	1.74	1.08	6.50	2.12	1.08	0.60	0.44	0.32	
30	1.08	0.44	0.56	0.36	1.55	0.89	5.05	1.93	0.98	0.60		0.32	
31		0.40		0.36	1.55		5.35		0.89	0.52		0.32	
TOTAL	10.95	23.50	31.73	12.68	112.61	45.90	96.72	116.90	50.79	24.04	18.90	15.87	560.59 CMSDAY
MEAN	0.37	0.76	1.06	0.41	3.63	1.53	3.12	3.90	1.64	0.78	0.65	0.51	1.53 CMS
MAX	1.08	2.50	2.80	0.60	25.90	3.10	15.30	8.50	2.80	1.36	1.45	1.93	25.90 CMS
MIN	0.24	0.40	0.40	0.32	0.48	0.89	1.17	1.93	0.89	0.52	0.44	0.32	0.24 CMS
RUNOFF	0.946	2.030	2.741	1.096	9.730	3.966	8.357	10.100	4.388	2.077	1.633	1.371	48.435 MCM

MOMENTARY PEAK 71.25 CMS. AT 2.18 M (A.D), AT 18.00 HOURS, ON AUG 17, 1987
RUNOFF YIELD 19.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 913.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

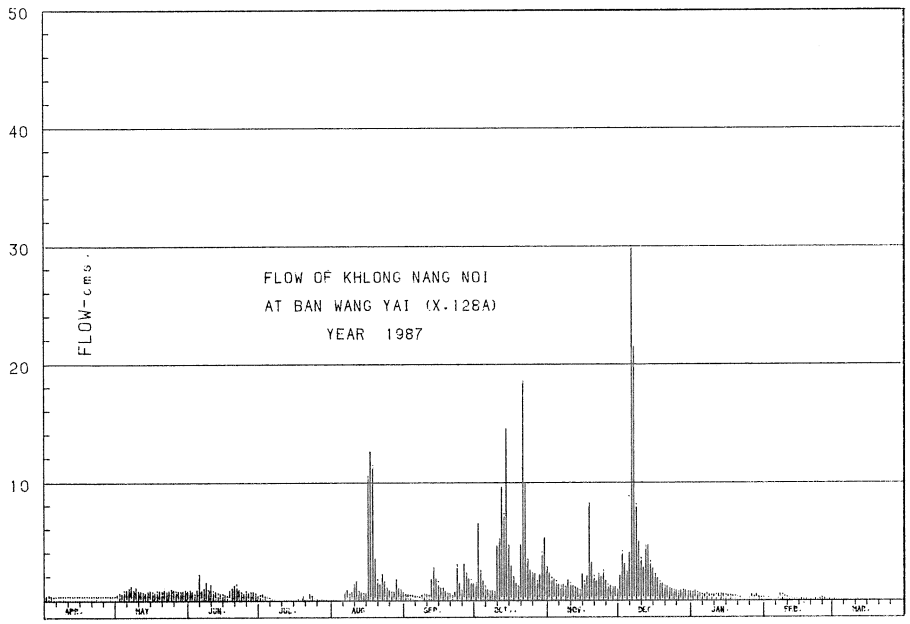
KHLONG NANG NOI AT BAN WANG YI, TRANG (X.128A)

LOCATION	LAT. 7°-35'-28" N., LONG. 99°-44'-13" E., ON RIGHT BANK ABOUT 2.00 METERS UPSTREAM FROM THE BRIDGE AT BAN WANG YI, AMPHOE MUANG, TRANG.
DRAINAGE AREA	75 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 5 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.730 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	1983 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984, 1987 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1984, 1987 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.08	0.20	0.08	-0.05	0.09	0.31	0.46	0.42	0.15	0.02	-0.05	
2	0.07	0.12	0.15	0.10	-0.05	0.08	1.17	0.39	0.79	0.17	0.02	-0.06	
3	0.05	0.10	0.11	0.05	-0.06	0.07	0.50	0.37	0.60	0.15	0.01	-0.05	
4	0.04	0.19	0.20	0.04	-0.06	0.07	0.34	0.34	0.48	0.11	0.01	-0.07	
5	0.04	0.19	0.44	0.01	-0.05	0.05	0.26	0.28	0.77	0.09	-0.01	-0.06	
6	0.05	0.23	0.17	-0.01	0.16	0.04	0.20	0.27	3.92	0.08	0.01	-0.08	
7	0.05	0.26	0.22	-0.02	0.19	0.03	0.17	0.28	3.02	0.12	0.09	-0.07	
8	0.05	0.19	0.32	-0.02	0.10	0.07	0.17	0.25	1.42	0.08	0.09	-0.06	
9	0.05	0.24	0.20	-0.03	0.14	0.10	0.16	0.35	0.93	0.08	0.05	-0.05	
10	0.05	0.17	0.28	-0.04	0.29	0.09	0.87	0.31	0.69	0.07	0.03	-0.06	
11	0.05	0.16	0.18	-0.04	0.33	0.07	0.97	0.26	0.54	0.09	0.02	-0.06	
12	0.05	0.14	0.15	-0.04	0.17	0.36	1.61	0.24	0.87	0.09	0.01	-0.07	
13	0.05	0.12	0.13	-0.05	0.13	0.54	1.30	0.22	0.88	0.10	-0.02	-0.07	
14	0.05	0.15	0.11	-0.05	0.12	0.37	2.24	0.19	0.64	0.09	-0.01	-0.07	
15	0.05	0.18	0.11	-0.04	0.11	0.33	0.88	0.44	0.53	0.08	-0.02	-0.07	
16	0.05	0.16	0.08	-0.03	1.74	0.23	0.57	0.33	0.44	0.07	-0.03	-0.07	
17	0.05	0.12	0.06	-0.04	2.00	0.23	0.40	0.41	0.38	0.07	-0.02	-0.07	
18	0.05	0.18	0.18	-0.05	1.86	0.16	0.30	1.43	0.33	0.06	-0.03	-0.08	
19	0.05	0.17	0.23	0.05	0.68	0.12	0.26	0.62	0.29	0.05	-0.04	-0.08	
20	0.05	0.16	0.27	-0.03	0.36	0.11	0.88	0.42	0.27	0.03	-0.04	-0.08	
21	0.05	0.19	0.29	-0.03	0.28	0.06	2.70	0.33	0.25	0.02	-0.03	-0.08	
22	0.05	0.16	0.20	0.10	0.44	0.14	1.65	0.45	0.23	0.02	-0.03	-0.09	
23	0.05	0.17	0.15	0.06	0.33	0.59	0.67	0.40	0.21	0.01	-0.03	-0.09	
24	0.05	0.21	0.11	0.01	0.23	0.30	0.50	0.50	0.20	0.01	-0.02	-0.09	
25	0.05	0.19	0.18	-0.03	0.18	0.19	0.46	0.34	0.18	0.03	0.01	-0.10	
26	0.05	0.18	0.12	-0.04	0.15	0.60	0.45	0.28	0.16	0.08	-0.03	-0.09	
27	0.05	0.16	0.15	-0.02	0.14	0.46	0.34	0.26	0.18	0.04	-0.04	-0.09	
28	0.05	0.16	0.15	-0.04	0.36	0.37	0.43	0.24	0.20	0.09	-0.04	-0.09	
29	0.05	0.16	0.12	-0.04	0.22	0.36	0.78	0.24	0.18	0.03	-0.05	-0.10	
30	0.05	0.20	0.05	-0.05	0.20	0.29	0.98	0.20	0.16	0.03		-0.10	
31		0.16		-0.05	0.14		0.55		0.15	0.02		-0.10	
MEAN	0.05	0.17	0.18	-0.01	0.35	0.22	0.74	0.37	0.66	0.07	0.00	-0.08	
MAX	0.07	0.26	0.44	0.10	2.00	0.60	2.70	1.43	3.92	0.17	0.09	-0.05	3.92
MIN	0.04	0.08	0.05	-0.05	-0.06	0.03	0.16	0.19	0.15	0.01	-0.05	-0.10	-0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.77 M (A.D), AT 9.00 HOURS, ON DEC 6, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.13 M (A.D)
LEFT BANK ELEVATION 5.79 M (A.D)
RIGHT BANK ELEVATION 5.02 M (A.D), DRAINAGE AREA 75 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.48	0.90	0.48	0.10	0.52	1.51	2.33	2.11	0.73	0.27	0.10	
2	0.45	0.62	0.73	0.55	0.10	0.48	6.51	1.94	4.15	0.80	0.27	0.08	
3	0.38	0.55	0.58	0.38	0.08	0.45	2.55	1.83	3.10	0.73	0.24	0.10	
4	0.34	0.87	0.90	0.34	0.08	0.45	1.67	1.67	2.44	0.58	0.24	0.06	
5	0.34	0.87	2.22	0.24	0.10	0.38	1.23	1.34	4.03	0.52	0.18	0.08	
6	0.38	1.06	0.80	0.18	0.76	0.34	0.90	1.28	30.00	0.48	0.24	0.04	
7	0.38	1.23	1.01	0.16	0.87	0.31	0.80	1.34	21.48	0.62	0.52	0.06	
8	0.38	0.87	1.56	0.16	0.55	0.45	0.80	1.17	8.15	0.48	0.52	0.08	
9	0.38	1.12	0.90	0.14	0.69	0.55	0.76	1.72	4.98	0.48	0.38	0.10	
10	0.38	0.80	1.34	0.12	1.39	0.52	4.62	1.51	3.60	0.45	0.31	0.08	
11	0.38	0.76	0.83	0.12	1.62	0.45	5.22	1.23	2.77	0.52	0.27	0.08	
12	0.38	0.69	0.73	0.12	0.80	1.78	9.58	1.12	4.62	0.52	0.24	0.06	
13	0.38	0.62	0.66	0.10	0.66	2.77	7.35	1.01	4.68	0.55	0.16	0.06	
14	0.38	0.73	0.58	0.10	0.62	1.83	14.54	0.87	3.32	0.52	0.18	0.06	
15	0.38	0.83	0.58	0.12	0.58	1.62	4.68	2.22	2.71	0.48	0.16	0.06	
16	0.38	0.76	0.48	0.14	10.55	1.06	2.94	1.62	2.22	0.45	0.14	0.06	
17	0.38	0.62	0.41	0.12	12.60	1.06	2.00	2.05	1.89	0.45	0.16	0.06	
18	0.38	0.83	0.83	0.10	11.48	0.76	1.45	8.22	1.62	0.41	0.14	0.04	
19	0.38	0.80	1.06	0.38	3.54	0.62	1.23	3.21	1.39	0.38	0.12	0.04	
20	0.38	0.76	1.28	0.14	1.78	0.58	4.68	2.11	1.28	0.31	0.12	0.04	
21	0.38	0.87	1.39	0.14	1.34	0.41	18.60	1.62	1.17	0.27	0.14	0.04	
22	0.38	0.76	0.90	0.55	2.22	0.69	9.88	2.27	1.06	0.27	0.14	0.02	
23	0.38	0.80	0.73	0.41	1.62	3.04	3.49	2.00	0.95	0.24	0.14	0.02	
24	0.38	0.95	0.58	0.24	1.06	1.45	2.55	2.55	0.90	0.24	0.16	0.02	
25	0.38	0.87	0.83	0.14	0.83	0.87	2.33	1.67	0.83	0.31	0.24	0.00	
26	0.38	0.83	0.62	0.12	0.73	3.10	2.27	1.34	0.76	0.48	0.14	0.02	
27	0.38	0.76	0.73	0.16	0.69	2.33	1.67	1.23	0.83	0.34	0.12	0.02	
28	0.38	0.76	0.73	0.12	1.78	1.83	2.17	1.12	0.90	0.52	0.12	0.02	
29	0.38	0.76	0.62	0.12	1.01	1.78	4.09	1.12	0.83	0.31	0.10	0.00	
30	0.38	0.90	0.38	0.10	0.90	1.39	5.28	0.90	0.76	0.31		0.00	
31		0.76		0.10	0.69		2.83		0.73	0.27		0.00	
TOTAL	11.39	24.89	25.89	6.39	61.82	33.87	130.18	55.61	120.26	14.02	6.16	1.50	491.98 CMSDAY
MEAN	0.38	0.80	0.86	0.21	1.99	1.13	4.20	1.85	3.88	0.45	0.21	0.05	1.34 CMS
MAX	0.45	1.23	2.22	0.55	12.60	3.10	18.60	8.22	30.00	0.80	0.52	0.10	30.00 CMS
MIN	0.34	0.48	0.38	0.10	0.08	0.31	0.76	0.87	0.73	0.24	0.10	0.00	0.00 CMS
RUNOFF	0.984	2.150	2.237	0.552	5.341	2.926	11.248	4.805	10.390	1.211	0.532	0.130	42.507 MCM

MOMENTARY PEAK 38.50 CMS, AT 4.77 M (A.D), AT 9.00 HOURS, ON DEC 6, 1987
RUNOFF YIELD 17.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 513.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

KHLONG INTHANIN AT BAN KHUAN MUANG, KRABI (X.132)

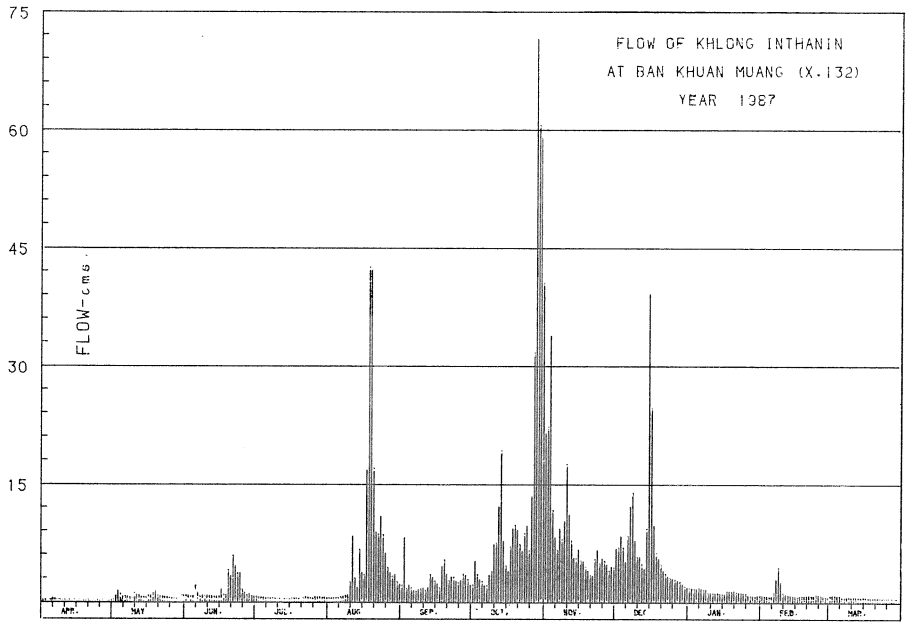
LOCATION — LAT. 8°-02'-49" N., LONG. 99-02-46 E., ON LEFT BANK DOWNSTREAM FROM THE BRIDGE OF KRABI-TRANG HIGHWAY, BAN KHUAN MUANG, AMPHOE MUANG, KRABI.

DRAINAGE AREA	161 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 100 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+7.370 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.21	0.47	0.40	0.30	0.84	0.85	2.90	1.61	0.75	0.43	0.43	
2	0.18	0.64	0.52	0.36	0.30	1.78	1.41	2.96	1.63	0.74	0.42	0.45	
3	0.18	0.67	0.46	0.34	0.30	0.74	1.15	3.68	1.80	0.73	0.40	0.46	
4	0.18	0.56	0.85	0.33	0.32	0.84	1.00	2.14	1.63	0.72	0.37	0.45	
5	0.29	0.40	0.96	0.30	0.31	0.77	0.96	1.78	1.39	0.76	0.39	0.43	
6	0.26	0.42	0.63	0.29	0.37	0.67	0.83	1.59	1.80	0.73	0.60	0.33	
7	0.22	0.38	0.49	0.29	0.40	0.65	0.83	1.90	2.18	0.70	1.00	0.32	
8	0.21	0.33	0.49	0.30	0.47	0.70	1.13	1.75	2.33	0.70	1.29	0.33	
9	0.20	0.29	0.49	0.28	0.48	0.73	1.22	2.00	1.73	0.60	0.92	0.37	
10	0.20	0.60	0.45	0.27	0.93	0.75	1.68	2.62	1.47	0.59	0.60	0.35	
11	0.20	0.48	0.44	0.26	1.80	0.69	1.70	2.08	1.47	0.59	0.51	0.34	
12	0.20	0.47	0.42	0.25	1.04	0.77	2.18	1.73	1.35	0.57	0.47	0.33	
13	0.20	0.36	0.40	0.24	0.77	1.14	2.75	1.46	1.26	0.58	0.43	0.33	
14	0.20	0.37	0.39	0.24	1.60	1.06	1.73	1.45	1.90	0.56	0.41	0.32	
15	0.20	0.35	0.40	0.23	1.20	0.96	1.32	1.60	3.96	0.55	0.39	0.34	
16	0.21	0.45	0.71	0.28	1.14	0.88	1.22	1.41	3.12	0.53	0.37	0.32	
17	0.19	0.45	0.52	0.28	2.56	0.76	1.64	1.40	1.94	0.65	0.40	0.30	
18	0.19	0.58	0.48	0.28	4.13	1.31	1.90	1.30	1.54	0.65	0.42	0.28	
19	0.19	0.59	1.25	0.26	4.11	1.43	1.95	1.23	1.44	0.65	0.41	0.28	
20	0.19	0.47	1.10	0.26	2.58	1.16	1.88	1.12	1.34	0.65	0.43	0.29	
21	0.18	0.40	1.50	0.30	1.86	0.97	1.68	1.11	1.23	0.63	0.45	0.28	
22	0.18	0.39	1.32	0.36	1.83	1.08	1.57	1.44	1.16	0.60	0.42	0.27	
23	0.18	0.37	1.18	0.34	2.06	1.07	1.84	1.59	1.09	0.59	0.42	0.26	
24	0.18	0.35	1.19	0.31	1.82	0.96	1.94	1.36	1.04	0.57	0.50	0.26	
25	0.18	0.31	0.71	0.30	1.54	0.92	1.58	1.45	1.02	0.56	0.48	0.27	
26	0.19	0.28	0.60	0.37	1.29	0.98	2.29	1.41	1.00	0.45	0.44	0.27	
27	0.19	0.27	0.50	0.36	1.20	1.16	3.56	1.34	0.97	0.43	0.38	0.26	
28	0.19	0.25	0.54	0.36	1.09	1.12	5.31	1.23	0.94	0.42	0.36	0.27	
29	0.19	0.24	0.44	0.33	1.14	1.01	4.90	1.30	0.86	0.40	0.33	0.26	
30	0.18	0.46	0.40	0.33	0.94	0.84	4.84	1.29	0.81	0.45		0.24	
31		0.45		0.30	0.87		4.03		0.77	0.44		0.24	
MEAN	0.20	0.41	0.68	0.30	1.31	0.96	2.03	1.72	1.54	0.60	0.50	0.32	
MAX	0.29	0.67	1.50	0.40	4.13	1.78	5.31	3.68	3.96	0.76	1.29	0.46	5.31
MIN	0.18	0.21	0.39	0.23	0.30	0.65	0.83	1.11	0.77	0.40	0.33	0.24	0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.50 M (A.D), AT 18.00 HOURS, ON OCT 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.06 M (A.D)
LEFT BANK ELEVATION 7.91 M (A.D)
RIGHT BANK ELEVATION 7.81 M (A.D), DRAINAGE AREA 161 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.31	0.37	0.89	0.75	0.55	2.18	2.23	21.45	6.79	1.80	0.81	0.81	
2	0.31	1.36	1.00	0.67	0.55	8.23	5.27	22.32	6.95	1.76	0.79	0.85	
3	0.31	1.48	0.87	0.63	0.55	1.76	3.57	33.84	8.40	1.72	0.75	0.87	
4	0.31	1.10	2.23	0.61	0.59	2.18	2.90	11.77	6.95	1.68	0.69	0.85	
5	0.53	0.75	2.72	0.55	0.57	1.88	2.72	8.23	5.13	1.84	0.73	0.81	
6	0.47	0.79	1.32	0.53	0.69	1.48	2.13	6.63	8.40	1.72	1.20	0.61	
7	0.39	0.71	0.93	0.53	0.75	1.40	2.13	9.35	12.19	1.60	2.90	0.59	
8	0.37	0.61	0.93	0.55	0.89	1.60	3.49	7.98	13.96	1.60	4.43	0.61	
9	0.35	0.53	0.93	0.51	0.91	1.72	3.94	10.30	7.81	1.20	2.54	0.69	
10	0.35	1.20	0.85	0.49	2.59	1.80	7.38	17.57	5.73	1.17	1.20	0.65	
11	0.35	0.91	0.83	0.47	8.40	1.56	7.55	11.14	5.73	1.17	0.97	0.63	
12	0.35	0.89	0.79	0.45	3.08	1.88	12.19	7.81	4.85	1.13	0.89	0.61	
13	0.35	0.67	0.75	0.43	1.88	3.53	19.32	5.65	4.22	1.15	0.81	0.61	
14	0.35	0.69	0.73	0.43	6.70	3.17	7.81	5.58	9.35	1.10	0.77	0.59	
15	0.35	0.65	0.75	0.41	3.80	2.72	4.64	6.70	39.20	1.08	0.73	0.63	
16	0.37	0.85	1.64	0.51	3.53	2.36	3.94	5.27	24.70	1.02	0.69	0.59	
17	0.33	0.85	1.00	0.51	16.80	1.84	7.04	5.20	9.73	1.40	0.75	0.55	
18	0.33	1.15	0.91	0.51	42.60	4.57	9.35	4.50	6.25	1.40	0.79	0.51	
19	0.33	1.17	4.15	0.47	42.20	5.42	9.83	4.01	5.50	1.40	0.77	0.51	
20	0.33	0.89	3.35	0.47	17.05	3.62	9.16	3.44	4.78	1.40	0.81	0.53	
21	0.31	0.75	5.95	0.55	8.97	2.77	7.38	3.40	4.01	1.32	0.85	0.51	
22	0.31	0.73	4.64	0.67	8.69	3.26	6.48	5.50	3.62	1.20	0.79	0.49	
23	0.31	0.69	3.71	0.63	10.93	3.22	8.78	6.63	3.31	1.17	0.79	0.47	
24	0.31	0.65	3.76	0.57	8.59	2.72	9.73	4.92	3.08	1.13	0.95	0.47	
25	0.31	0.57	1.64	0.55	6.25	2.54	6.55	5.58	2.99	1.10	0.91	0.49	
26	0.33	0.51	1.20	0.69	4.43	2.81	13.48	5.27	2.90	0.85	0.83	0.49	
27	0.33	0.49	0.95	0.67	3.80	3.62	31.74	4.78	2.77	0.81	0.71	0.47	
28	0.33	0.45	1.05	0.67	3.31	3.44	71.57	4.01	2.63	0.79	0.67	0.49	
29	0.33	0.43	0.83	0.61	3.53	2.95	60.65	4.50	2.27	0.75	0.61	0.47	
30	0.31	0.87	0.75	0.61	2.63	2.18	59.06	4.43	2.04	0.85		0.43	
31		0.85		0.55	2.32		40.60		1.88	0.83		0.43	
TOTAL	10.32	24.61	52.05	17.25	218.13	84.41	442.61	257.76	228.12	39.14	31.13	18.31	1423.84 CMSDAY
MEAN	0.34	0.79	1.74	0.56	7.04	2.81	14.28	8.59	7.36	1.26	1.07	0.59	3.89 CMS
MAX	0.53	1.48	5.95	0.75	42.60	8.23	71.57	33.84	39.20	1.84	4.43	0.87	71.57 CMS
MIN	0.31	0.37	0.73	0.41	0.55	1.40	2.13	3.40	1.88	0.75	0.61	0.43	0.31 CMS
RUNOFF	0.892	2.126	4.497	1.490	18.846	7.293	38.242	22.270	19.710	3.382	2.690	1.582	123.020 MCM

MOMENTARY PEAK 76.70 CMS, AT 5.50 M (A.D), AT 18.00 HOURS, ON OCT 28, 1987
RUNOFF YIELD 24.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 476.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

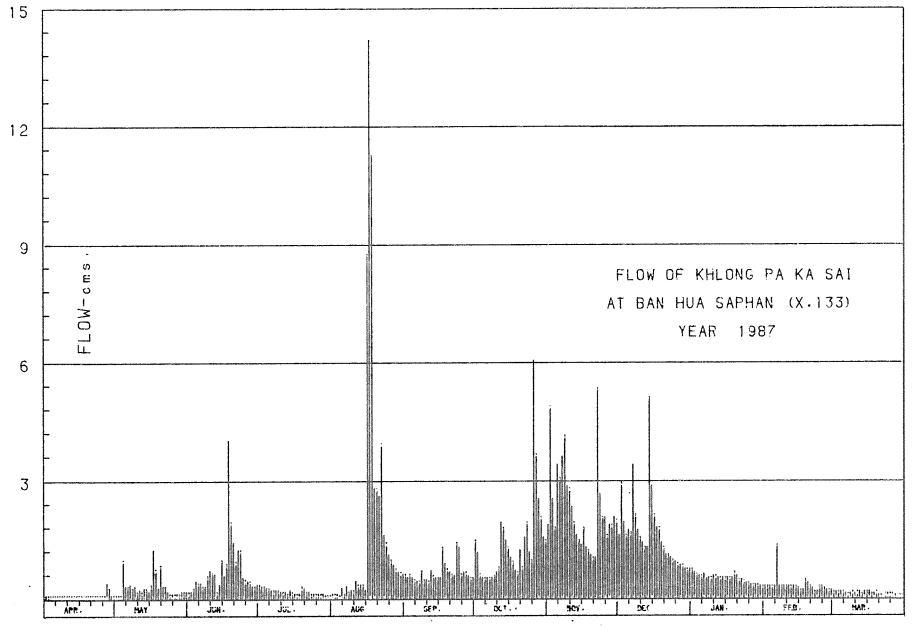
KHLONG PAKASAI AT BAN HUA SAPHAN, KRABI (X.133)

LOCATION	LAT. 8°-12'-36" N., LONG. 99-02-12 E., ON RIGHT BANK UPSTREAM FROM THE BRIDGE OF NUA KHLONG-KHAO PHANOM HIGHWAY, BAN HUA SAPHAN, AMPHOE KHAO PHANOM, KRABI.
DRAINAGE AREA	59 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+6.180 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 59 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.50	0.52	0.56	0.51	0.62	0.78	0.84	0.80	0.65	0.55	0.52	
2	0.50	0.50	0.52	0.55	0.51	0.60	0.73	1.28	1.00	0.63	0.55	0.52	
3	0.50	0.50	0.54	0.55	0.51	0.62	0.62	0.94	0.85	0.62	0.55	0.52	
4	0.50	0.70	0.58	0.54	0.50	0.60	0.60	0.83	0.80	0.61	0.55	0.52	
5	0.50	0.55	0.57	0.54	0.54	0.59	0.60	1.07	0.82	0.61	0.55	0.52	
6	0.50	0.55	0.57	0.53	0.51	0.58	0.60	1.02	0.81	0.62	0.76	0.51	
7	0.50	0.56	0.55	0.53	0.55	0.58	0.60	1.10	1.07	0.61	0.55	0.51	
8	0.50	0.54	0.55	0.53	0.52	0.64	0.60	1.18	0.88	0.60	0.55	0.51	
9	0.50	0.55	0.61	0.53	0.53	0.59	0.61	0.99	0.82	0.60	0.55	0.52	
10	0.50	0.52	0.64	0.52	0.53	0.59	0.63	0.98	0.79	0.61	0.55	0.51	
11	0.50	0.53	0.63	0.52	0.58	0.58	0.66	0.91	0.77	0.61	0.55	0.52	
12	0.50	0.52	0.62	0.52	0.56	0.64	0.85	0.85	0.75	0.60	0.55	0.52	
13	0.50	0.54	0.52	0.51	0.56	0.61	0.83	0.80	0.75	0.60	0.55	0.51	
14	0.50	0.54	0.56	0.53	0.56	0.60	0.78	0.78	1.31	0.60	0.55	0.52	
15	0.50	0.52	0.70	0.52	0.53	0.60	0.75	0.76	0.99	0.60	0.54	0.52	
16	0.50	0.56	0.61	0.51	1.76	0.60	0.71	0.83	0.88	0.60	0.53	0.52	
17	0.50	0.74	0.68	0.51	2.36	0.75	0.69	0.75	0.83	0.60	0.53	0.51	
18	0.50	0.65	1.16	0.51	2.05	0.68	0.64	0.74	0.83	0.60	0.59	0.51	
19	0.50	0.54	0.85	0.55	0.98	0.65	0.63	0.72	0.77	0.63	0.57	0.52	
20	0.50	0.67	0.77	0.54	0.98	0.63	0.74	0.71	0.75	0.61	0.55	0.50	
21	0.50	0.55	0.69	0.52	0.95	0.62	0.66	0.71	0.72	0.59	0.54	0.50	
22	0.50	0.55	0.74	0.52	1.15	0.61	0.79	1.34	0.72	0.59	0.52	0.50	
23	0.50	0.52	0.74	0.51	0.80	0.77	0.85	0.96	0.71	0.58	0.52	0.51	
24	0.50	0.51	0.60	0.51	0.77	0.75	0.73	0.87	0.70	0.57	0.55	0.51	
25	0.50	0.51	0.59	0.51	0.72	0.62	0.70	0.87	0.69	0.57	0.55	0.51	
26	0.50	0.51	0.58	0.51	0.70	0.63	1.43	0.80	0.68	0.56	0.54	0.51	
27	0.57	0.51	0.58	0.51	0.67	0.63	1.11	0.84	0.67	0.56	0.53	0.50	
28	0.54	0.51	0.55	0.51	0.65	0.61	0.94	0.84	0.67	0.56	0.53	0.50	
29	0.50	0.52	0.55	0.50	0.63	0.60	0.87	0.87	0.65	0.56	0.53	0.50	
30	0.50	0.52	0.56	0.50	0.63	0.60	0.79	0.86	0.65	0.55		0.50	
31		0.52		0.50	0.62		0.78		0.65	0.55		0.50	
MEAN	0.50	0.55	0.63	0.52	0.79	0.63	0.75	0.90	0.80	0.60	0.55	0.51	
MAX	0.57	0.74	1.16	0.56	2.36	0.77	1.43	1.34	1.31	0.65	0.76	0.52	2.36
MIN	0.50	0.50	0.52	0.50	0.50	0.58	0.60	0.71	0.65	0.55	0.52	0.50	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.38 M (A.D), AT 6.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.13 M (A.D)
LEFT BANK ELEVATION 5.03 M (A.D)
RIGHT BANK ELEVATION 4.96 M (A.D), DRAINAGE AREA 59 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.10	0.19	0.37	0.14	0.64	1.50	1.89	1.63	0.77	0.33	0.19	
2	0.10	0.10	0.19	0.33	0.14	0.55	1.19	4.90	2.95	0.69	0.33	0.19	
3	0.10	0.10	0.28	0.33	0.14	0.64	0.64	2.55	1.96	0.64	0.33	0.19	
4	0.10	1.00	0.46	0.28	0.10	0.55	0.55	1.82	1.63	0.60	0.33	0.19	
5	0.10	0.33	0.41	0.28	0.28	0.50	0.55	3.42	1.76	0.60	0.33	0.19	
6	0.10	0.33	0.41	0.23	0.14	0.46	0.55	3.08	1.69	0.64	1.38	0.14	
7	0.10	0.37	0.33	0.23	0.33	0.46	0.55	3.62	3.42	0.60	0.33	0.14	
8	0.10	0.28	0.33	0.23	0.19	0.73	0.55	4.16	2.15	0.55	0.33	0.14	
9	0.10	0.33	0.60	0.23	0.23	0.50	0.60	2.88	1.76	0.55	0.33	0.19	
10	0.10	0.19	0.73	0.19	0.23	0.50	0.69	2.82	1.57	0.60	0.33	0.14	
11	0.10	0.23	0.69	0.19	0.46	0.46	0.82	2.35	1.44	0.60	0.33	0.19	
12	0.10	0.19	0.64	0.19	0.37	0.73	1.96	1.96	1.32	0.55	0.33	0.19	
13	0.10	0.28	0.19	0.14	0.37	0.60	1.82	1.63	1.32	0.55	0.33	0.14	
14	0.10	0.28	0.37	0.23	0.37	0.55	1.50	1.50	5.13	0.55	0.33	0.19	
15	0.10	0.19	1.00	0.19	0.23	0.55	1.32	1.38	2.88	0.55	0.28	0.19	
16	0.10	0.37	0.60	0.14	8.76	0.55	1.06	1.82	2.15	0.55	0.23	0.19	
17	0.10	1.25	0.91	0.14	14.21	1.32	0.96	1.32	1.82	0.55	0.23	0.14	
18	0.10	0.77	4.03	0.14	11.36	0.91	0.73	1.25	1.82	0.55	0.50	0.14	
19	0.10	0.28	1.96	0.33	2.82	0.77	0.69	1.13	1.44	0.69	0.41	0.19	
20	0.10	0.87	1.44	0.28	2.82	0.69	1.25	1.06	1.32	0.60	0.33	0.10	
21	0.10	0.33	0.96	0.19	2.62	0.64	0.82	1.06	1.13	0.50	0.28	0.10	
22	0.10	0.33	1.25	0.19	3.96	0.60	1.57	5.36	1.13	0.50	0.19	0.10	
23	0.10	0.19	1.25	0.14	1.63	1.44	1.96	2.68	1.06	0.46	0.19	0.14	
24	0.10	0.14	0.55	0.14	1.44	1.32	1.19	2.09	1.00	0.41	0.33	0.14	
25	0.10	0.14	0.50	0.14	1.13	0.64	1.00	2.09	0.96	0.41	0.33	0.14	
26	0.10	0.14	0.46	0.14	1.00	0.69	6.06	1.63	0.91	0.37	0.28	0.14	
27	0.41	0.14	0.46	0.14	0.87	0.69	3.69	1.89	0.87	0.37	0.23	0.10	
28	0.28	0.14	0.33	0.14	0.77	0.60	2.55	1.89	0.87	0.37	0.23	0.10	
29	0.10	0.19	0.33	0.10	0.69	0.55	2.09	2.09	0.77	0.37	0.23	0.10	
30	0.10	0.19	0.37	0.10	0.69	0.55	1.57	2.02	0.77	0.33		0.10	
31		0.19		0.10	0.64		1.50		0.77	0.33		0.10	
TOTAL	3.49	9.96	22.22	6.19	59.13	20.38	43.48	69.34	51.40	16.40	9.94	4.62	316.55 CMSDAY
MEAN	0.12	0.32	0.74	0.20	1.91	0.68	1.40	2.31	1.66	0.53	0.34	0.15	0.86 CMS
MAX	0.41	1.25	4.03	0.37	14.21	1.44	6.06	5.36	5.13	0.77	1.38	0.19	14.21 CMS
MIN	0.10	0.10	0.19	0.10	0.10	0.46	0.55	1.06	0.77	0.33	0.19	0.10	0.10 CMS
RUNOFF	0.302	0.861	1.920	0.535	5.109	1.761	3.757	5.991	4.441	1.417	0.859	0.399	27.350 MCM

MOMENTARY PEAK 14.40 CMS, AT 2.38 M (A.D), AT 6.00 HOURS, ON AUG 17, 1987

RUNOFF YIELD 14.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 244.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

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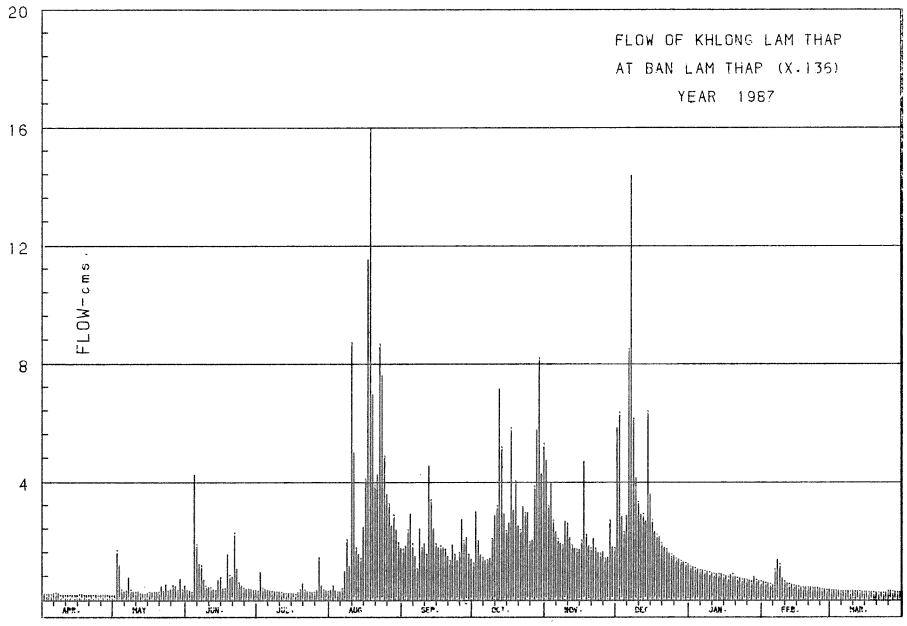
KHLONG LAM THAP AT BAN LAM THAP, KRABI (X.136)

LOCATION	LAT. 8°-03'-42" N., LONG. 99-17-43 E., ON LEFT BANK DOWNSTREAM FROM THE BRIDGE OF KHLONG TOM - THUNG YAI HIGHWAY, BAN LAM THAP, AMPHOE KHLONG THOM, KRABI.
DRAINAGE AREA	80 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 10 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.710 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +4.51 M.(A.D.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 58 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.34	0.45	0.44	0.45	1.01	0.84	1.92	2.21	0.80	0.59	0.45	
2	0.37	1.00	0.43	0.72	0.53	1.05	1.43	1.49	2.34	0.79	0.58	0.45	
3	0.37	0.81	0.41	0.50	0.44	1.24	1.11	1.71	1.38	0.78	0.57	0.45	
4	0.37	0.47	1.79	0.47	0.41	1.41	0.94	1.34	1.22	0.76	0.56	0.44	
5	0.38	0.42	1.07	0.45	0.41	1.08	0.91	1.22	1.39	0.75	0.54	0.43	
6	0.40	0.44	0.83	0.44	0.49	0.92	0.87	1.14	2.86	0.75	0.76	0.43	
7	0.38	0.65	0.81	0.43	0.73	0.77	0.88	1.08	4.15	0.74	0.88	0.43	
8	0.35	0.46	0.62	0.42	1.13	1.25	0.90	1.06	2.29	0.73	0.83	0.43	
9	0.35	0.41	0.53	0.42	0.80	1.03	1.14	1.33	1.76	0.72	0.64	0.43	
10	0.35	0.41	0.51	0.41	2.91	1.08	1.39	1.31	1.53	0.71	0.60	0.44	
11	0.35	0.42	0.51	0.41	1.99	0.95	1.49	1.15	1.40	0.70	0.57	0.43	
12	0.35	0.38	0.46	0.39	1.03	1.87	2.54	1.06	1.41	0.70	0.56	0.43	
13	0.35	0.37	0.45	0.39	0.95	1.55	2.04	1.02	1.33	0.70	0.55	0.43	
14	0.35	0.37	0.61	0.38	0.90	1.25	1.41	1.01	2.35	0.70	0.54	0.42	
15	0.35	0.38	0.65	0.38	1.27	1.08	1.23	1.01	1.60	0.68	0.53	0.42	
16	0.37	0.41	0.48	0.38	1.75	1.03	1.31	1.12	1.35	0.67	0.52	0.42	
17	0.36	0.40	0.49	0.37	3.54	1.05	2.21	1.91	1.22	0.66	0.51	0.41	
18	0.35	0.41	0.95	0.40	4.48	1.03	1.44	1.19	1.19	0.69	0.51	0.41	
19	0.35	0.41	0.68	0.47	2.49	1.01	1.73	1.05	1.16	0.70	0.51	0.41	
20	0.35	0.42	0.66	0.56	1.69	0.92	1.28	1.03	1.09	0.66	0.51	0.40	
21	0.35	0.52	1.21	0.46	1.79	0.87	1.24	1.14	1.03	0.65	0.51	0.40	
22	0.35	0.43	0.77	0.42	2.90	1.06	1.48	1.02	1.01	0.64	0.50	0.40	
23	0.35	0.55	0.58	0.41	2.65	0.95	1.42	0.97	0.96	0.63	0.50	0.40	
24	0.34	0.44	0.53	0.40	1.96	0.87	1.42	0.96	0.95	0.63	0.50	0.40	
25	0.35	0.46	0.50	0.41	1.60	0.97	1.10	0.98	0.93	0.62	0.49	0.44	
26	0.35	0.54	0.47	0.45	1.51	1.35	1.12	0.90	0.90	0.61	0.47	0.44	
27	0.35	0.52	0.48	0.91	1.28	1.11	1.68	0.91	0.89	0.60	0.47	0.43	
28	0.35	0.45	0.47	0.53	1.40	1.15	2.19	1.34	0.87	0.66	0.46	0.41	
29	0.34	0.63	0.45	0.46	1.24	0.95	2.79	1.04	0.85	0.62	0.46	0.41	
30	0.34	0.47	0.45	0.44	1.09	0.89	1.80	1.03	0.84	0.60		0.41	
31		0.53		0.43	1.02		2.07		0.83	0.60		0.41	
MEAN	0.36	0.48	0.64	0.46	1.51	1.09	1.46	1.18	1.46	0.69	0.56	0.42	
MAX	0.40	1.00	1.79	0.91	4.48	1.87	2.79	1.92	4.15	0.80	0.88	0.45	4.48
MIN	0.34	0.34	0.41	0.37	0.41	0.77	0.84	0.90	0.83	0.60	0.46	0.40	0.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.16 M (A.D), AT 24.00 HOURS, ON AUG 17, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.28 M (A.D)
LEFT BANK ELEVATION 4.50 M (A.D)
RIGHT BANK ELEVATION 5.65 M (A.D), DRAINAGE AREA 80 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.16	0.34	0.32	0.34	1.73	1.26	4.74	5.84	1.15	0.63	0.34	
2	0.21	1.70	0.31	0.95	0.49	1.84	3.00	3.21	6.36	1.13	0.60	0.34	
3	0.21	1.18	0.28	0.42	0.32	2.39	2.01	3.97	2.84	1.10	0.58	0.34	
4	0.21	0.37	4.25	0.37	0.28	2.93	1.53	2.71	2.32	1.05	0.56	0.32	
5	0.23	0.29	1.90	0.34	0.28	1.92	1.45	2.32	2.87	1.02	0.51	0.31	
6	0.26	0.32	1.23	0.32	0.40	1.48	1.34	2.09	8.51	1.02	1.05	0.31	
7	0.23	0.77	1.18	0.31	0.98	1.07	1.37	1.92	14.38	1.00	1.37	0.31	
8	0.18	0.36	0.70	0.29	2.06	2.42	1.42	1.87	6.16	0.98	1.23	0.31	
9	0.18	0.28	0.49	0.29	1.15	1.78	2.09	2.68	4.14	0.95	0.75	0.31	
10	0.18	0.28	0.44	0.28	8.72	1.92	2.87	2.61	3.34	0.92	0.65	0.32	
11	0.18	0.29	0.44	0.28	5.00	1.56	3.21	2.12	2.90	0.90	0.58	0.31	
12	0.18	0.23	0.36	0.24	1.78	4.55	7.16	1.87	2.93	0.90	0.56	0.31	
13	0.18	0.21	0.34	0.24	1.56	3.41	5.19	1.76	2.68	0.90	0.53	0.31	
14	0.18	0.21	0.67	0.23	1.42	2.42	2.93	1.73	6.40	0.90	0.51	0.29	
15	0.18	0.23	0.77	0.23	2.48	1.92	2.36	1.73	3.58	0.85	0.49	0.29	
16	0.21	0.28	0.39	0.23	4.11	1.78	2.61	2.04	2.74	0.83	0.47	0.29	
17	0.20	0.26	0.40	0.21	11.53	1.84	5.84	4.70	2.32	0.80	0.44	0.28	
18	0.18	0.28	1.56	0.26	15.95	1.78	3.04	2.23	2.23	0.87	0.44	0.28	
19	0.18	0.28	0.85	0.37	6.96	1.73	4.04	1.84	2.15	0.90	0.44	0.28	
20	0.18	0.29	0.80	0.56	3.90	1.48	2.52	1.78	1.95	0.80	0.44	0.26	
21	0.18	0.47	2.29	0.36	4.25	1.34	2.39	2.09	1.78	0.77	0.44	0.26	
22	0.18	0.31	1.07	0.29	8.68	1.87	3.17	1.76	1.73	0.75	0.42	0.26	
23	0.18	0.53	0.60	0.28	7.61	1.56	2.97	1.62	1.59	0.72	0.42	0.26	
24	0.16	0.32	0.49	0.26	4.89	1.34	2.97	1.59	1.56	0.72	0.42	0.26	
25	0.18	0.36	0.42	0.28	3.58	1.62	1.98	1.64	1.50	0.70	0.40	0.32	
26	0.18	0.51	0.37	0.34	3.27	2.74	2.04	1.42	1.42	0.67	0.37	0.32	
27	0.18	0.47	0.39	1.45	2.52	2.01	3.86	1.45	1.39	0.65	0.37	0.31	
28	0.18	0.34	0.37	0.49	2.90	2.12	5.76	2.71	1.34	0.80	0.36	0.28	
29	0.16	0.72	0.34	0.36	2.39	1.56	8.21	1.81	1.29	0.70	0.36	0.28	
30	0.16	0.37	0.34	0.32	1.95	1.39	4.28	1.78	1.26	0.65		0.28	
31		0.49		0.31	1.76		5.31		1.23	0.65		0.28	
TOTAL	5.69	13.16	24.38	11.48	113.51	59.50	100.18	67.79	102.73	26.75	16.39	9.22	550.78 CMSDAY
MEAN	0.19	0.42	0.81	0.37	3.66	1.98	3.23	2.26	3.31	0.86	0.57	0.30	1.50 CMS
MAX	0.26	1.70	4.25	1.45	15.95	4.55	8.21	4.74	14.38	1.15	1.37	0.34	15.95 CMS
MIN	0.16	0.16	0.28	0.21	0.28	1.07	1.26	1.42	1.23	0.65	0.36	0.26	0.16 CMS
RUNOFF	0.492	1.137	2.106	0.992	9.807	5.141	8.656	5.857	8.876	2.311	1.416	0.797	47.587 MCM

MOMENTARY PEAK 19.30 CMS, AT 5.16 M (A.D), AT 24.00 HOURS, ON AUG 17, 1987
RUNOFF YIELD 18.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 241.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

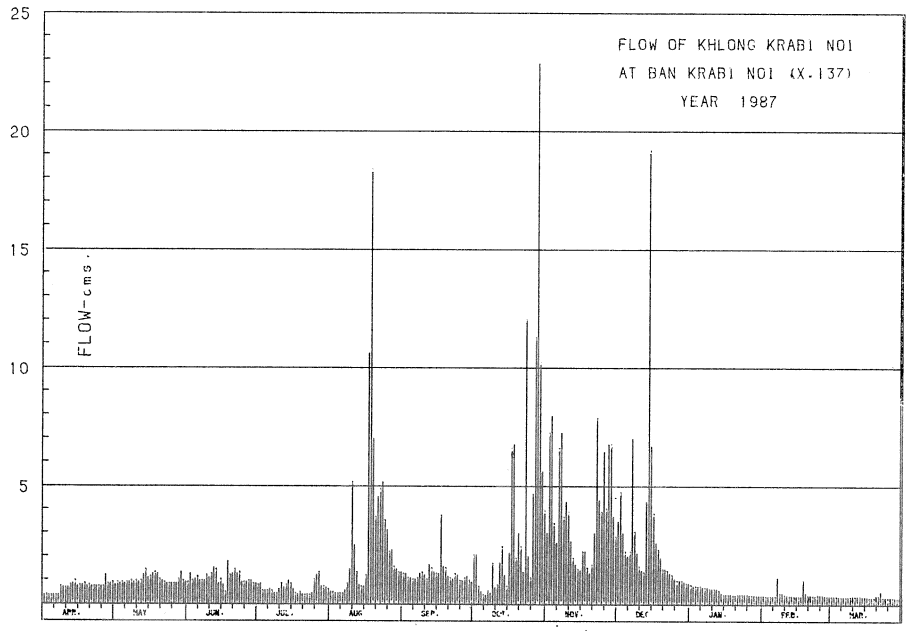
KHLONG KRABI NOI AT BAN KRABI NOI, KRABI (X.137)

LOCATION	LAT. 8°-07'-12" N., LONG. 98°-57'-50" E., ON LEFT BANK UPSTREAM FROM THE BRIDGE ON ROAD NEAR WAT KRABI NOI, AMPHOE MUANG, KRABI.
DRAINAGE AREA	95 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE TOP STAFF GAGE.
ELEVATION	+7.110 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 66 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	0.37	0.39	0.37	0.32	0.45	0.57	0.70	0.77	0.37	0.28	0.27	
2	0.30	0.39	0.45	0.38	0.32	0.45	0.57	1.28	0.95	0.36	0.27	0.27	
3	0.29	0.38	0.40	0.33	0.31	0.42	0.36	1.37	0.70	0.36	0.27	0.27	
4	0.29	0.39	0.41	0.33	0.31	0.42	0.32	0.76	0.59	0.36	0.27	0.26	
5	0.29	0.38	0.43	0.33	0.31	0.41	0.30	0.64	0.56	0.36	0.27	0.26	
6	0.29	0.39	0.40	0.34	0.31	0.41	0.29	1.20	0.59	0.35	0.27	0.26	
7	0.29	0.39	0.40	0.33	0.33	0.42	0.33	1.28	1.25	0.35	0.42	0.26	
8	0.36	0.40	0.40	0.31	0.38	0.45	0.31	0.80	0.71	0.35	0.31	0.26	
9	0.35	0.39	0.44	0.31	0.48	0.46	0.52	0.89	0.58	0.34	0.31	0.27	
10	0.35	0.40	0.42	0.34	1.01	0.44	0.35	0.83	0.50	0.34	0.30	0.27	
11	0.35	0.39	0.45	0.38	0.63	0.41	0.37	0.65	0.47	0.34	0.28	0.27	
12	0.37	0.40	0.49	0.35	0.46	0.51	0.52	0.55	0.46	0.34	0.28	0.27	
13	0.38	0.44	0.48	0.37	0.37	0.49	0.62	0.51	0.89	0.33	0.28	0.27	
14	0.40	0.48	0.38	0.40	0.36	0.46	0.44	0.48	2.56	0.31	0.27	0.26	
15	0.36	0.42	0.41	0.38	0.36	0.45	0.36	0.47	1.21	0.30	0.27	0.26	
16	0.37	0.43	0.37	0.34	0.44	0.45	0.58	0.59	0.82	0.30	0.27	0.26	
17	0.37	0.45	0.32	0.31	1.67	0.81	1.20	0.59	0.64	0.30	0.27	0.25	
18	0.38	0.46	0.53	0.30	2.48	0.50	1.22	0.49	0.60	0.30	0.40	0.25	
19	0.36	0.45	0.44	0.32	1.25	0.49	0.55	0.45	0.55	0.29	0.31	0.25	
20	0.37	0.41	0.45	0.30	0.80	0.43	0.70	0.51	0.48	0.29	0.29	0.28	
21	0.36	0.40	0.48	0.30	0.92	0.42	0.62	0.70	0.48	0.30	0.29	0.28	
22	0.36	0.39	0.45	0.30	0.97	0.41	0.46	1.36	0.47	0.30	0.28	0.32	
23	0.36	0.38	0.46	0.30	1.01	0.45	1.82	0.90	0.45	0.30	0.28	0.25	
24	0.36	0.38	0.39	0.31	0.78	0.44	0.56	0.83	0.44	0.30	0.30	0.25	
25	0.36	0.38	0.39	0.41	0.72	0.40	0.42	1.18	0.41	0.30	0.29	0.25	
26	0.36	0.38	0.39	0.44	0.59	0.40	0.94	0.85	0.40	0.29	0.29	0.25	
27	0.44	0.38	0.40	0.46	0.60	0.42	1.74	1.22	0.40	0.29	0.28	0.25	
28	0.38	0.41	0.40	0.36	0.50	0.43	2.91	1.22	0.40	0.29	0.27	0.24	
29	0.38	0.46	0.38	0.36	0.48	0.40	1.63	0.80	0.39	0.28	0.27	0.24	
30	0.39	0.40	0.38	0.35	0.46	0.39	1.07	0.68	0.38	0.28		0.24	
31		0.39		0.34	0.46		0.84		0.38	0.28		0.24	
MEAN	0.35	0.41	0.42	0.35	0.66	0.45	0.76	0.83	0.66	0.32	0.29	0.26	
MAX	0.44	0.48	0.53	0.46	2.48	0.81	2.91	1.37	2.56	0.37	0.42	0.32	2.91
MIN	0.29	0.37	0.32	0.30	0.31	0.39	0.29	0.45	0.38	0.28	0.27	0.24	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.46 M (A.D), AT 9.00 HOURS, ON OCT 28, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.67 M (A.D)
LEFT BANK ELEVATION 6.06 M (A.D)
RIGHT BANK ELEVATION 4.86 M (A.D), DRAINAGE AREA 95 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.82	0.94	0.82	0.52	1.30	2.09	3.00	3.49	0.82	0.35	0.33	
2	0.40	0.94	1.30	0.88	0.52	1.30	2.09	7.24	4.75	0.76	0.33	0.33	
3	0.37	0.88	1.00	0.58	0.46	1.12	0.76	7.96	3.00	0.76	0.33	0.33	
4	0.37	0.94	1.06	0.58	0.46	1.12	0.52	3.42	2.23	0.76	0.33	0.30	
5	0.37	0.88	1.18	0.58	0.46	1.06	0.40	2.58	2.02	0.76	0.33	0.30	
6	0.37	0.94	1.00	0.64	0.46	1.06	0.37	6.60	2.23	0.70	0.33	0.30	
7	0.37	0.94	1.00	0.58	0.58	1.12	0.58	7.24	7.00	0.70	1.12	0.30	
8	0.76	1.00	1.00	0.46	0.88	1.30	0.46	3.70	3.07	0.70	0.46	0.30	
9	0.70	0.94	1.24	0.46	1.48	1.36	1.74	4.33	2.16	0.64	0.46	0.33	
10	0.70	1.00	1.12	0.64	5.17	1.24	0.70	3.91	1.60	0.64	0.40	0.33	
11	0.70	0.94	1.30	0.88	2.51	1.06	0.82	2.65	1.42	0.64	0.35	0.33	
12	0.82	1.00	1.54	0.70	1.36	1.67	1.74	1.95	1.36	0.64	0.35	0.33	
13	0.88	1.24	1.48	0.82	0.82	1.54	2.44	1.67	4.33	0.58	0.35	0.33	
14	1.00	1.48	0.88	1.00	0.76	1.36	1.24	1.48	19.20	0.46	0.33	0.30	
15	0.76	1.12	1.06	0.88	0.76	1.30	0.76	1.42	6.68	0.40	0.33	0.30	
16	0.82	1.18	0.82	0.64	1.24	1.30	2.16	2.23	3.84	0.40	0.33	0.30	
17	0.82	1.30	0.52	0.46	10.61	3.77	6.60	2.23	2.58	0.40	0.33	0.27	
18	0.88	1.36	1.81	0.40	18.40	1.60	6.76	1.54	2.30	0.40	1.00	0.27	
19	0.76	1.30	1.24	0.52	7.00	1.54	1.95	1.30	1.95	0.37	0.46	0.27	
20	0.82	1.06	1.30	0.40	3.70	1.18	3.00	1.67	1.48	0.37	0.37	0.35	
21	0.76	1.00	1.48	0.40	4.54	1.12	2.44	3.00	1.48	0.40	0.37	0.35	
22	0.76	0.94	1.30	0.40	4.89	1.06	1.36	7.88	1.42	0.40	0.35	0.52	
23	0.76	0.88	1.36	0.40	5.17	1.30	12.04	4.40	1.30	0.40	0.35	0.27	
24	0.76	0.88	0.94	0.46	3.56	1.24	2.02	3.91	1.24	0.40	0.40	0.27	
25	0.76	0.88	0.94	1.06	3.14	1.00	1.12	6.44	1.06	0.40	0.37	0.27	
26	0.76	0.88	0.94	1.24	2.23	1.00	4.68	4.05	1.00	0.37	0.37	0.27	
27	1.24	0.88	1.00	1.36	2.30	1.12	11.28	6.76	1.00	0.37	0.35	0.27	
28	0.88	1.06	1.00	0.76	1.60	1.18	22.86	6.76	1.00	0.37	0.33	0.25	
29	0.88	1.36	0.88	0.76	1.48	1.00	10.24	3.70	0.94	0.35	0.33	0.25	
30	0.94	1.00	0.88	0.70	1.36	0.94	5.59	2.86	0.88	0.35		0.25	
31		0.94		0.64	1.36		3.98		0.88	0.35		0.25	
TOTAL	21.54	31.96	33.51	21.10	89.78	39.26	114.79	117.88	88.89	16.06	11.86	9.42	596.05 CMSDAY
MEAN	0.72	1.03	1.12	0.68	2.90	1.31	3.70	3.93	2.87	0.52	0.41	0.30	1.63 CMS
MAX	1.24	1.48	1.81	1.36	18.40	3.77	22.86	7.96	19.20	0.82	1.12	0.52	22.86 CMS
MIN	0.37	0.82	0.52	0.40	0.46	0.94	0.37	1.30	0.88	0.35	0.33	0.25	0.25 CMS
RUNOFF	1.861	2.761	2.895	1.823	7.757	3.392	9.918	10.185	7.680	1.388	1.025	0.814	51.499 MCM

MOMENTARY PEAK 28.76 CMS, AT 3.46 M (A.D), AT 9.00 HOURS, ON OCT 28, 1987
RUNOFF YIELD 17.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 302.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

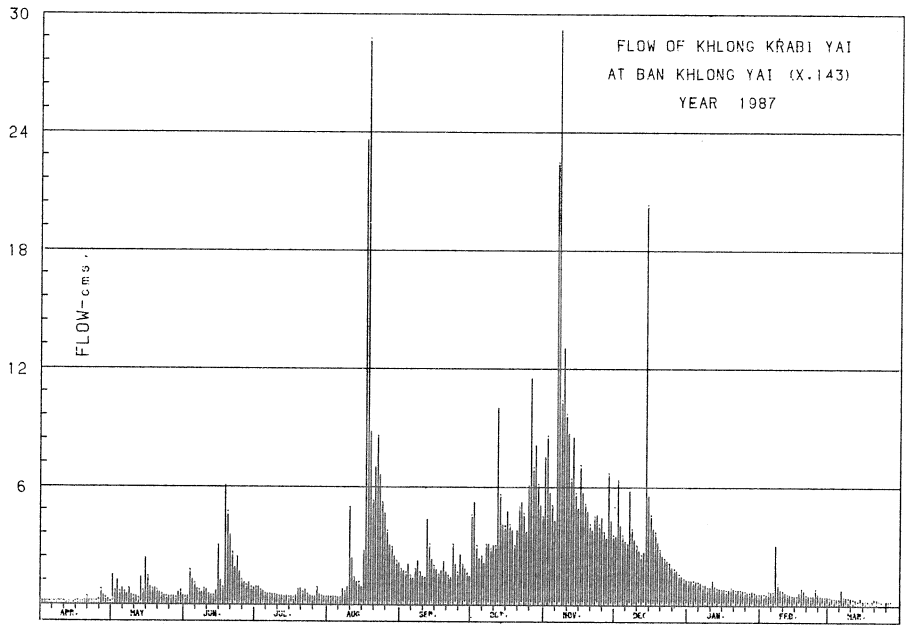
KHLONG KRABI YAI AT BAN KHLONG YAI, KRABI (X.143)

LOCATION	LAT. 8°-08'-17" N., LONG. 98°-53'-45" E., ON RIGHT BANK UPSTREAM FROM THE BRIDGE OF KRABI-BAN WANG TIN HIGHWAY, BAN KHLONG YAI, AMPHOE MUANG, KRABI.
DRAINAGE AREA	127 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+8.400 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	1983 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1986 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1986 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 66 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.51	0.26	0.40	0.26	0.57	0.96	1.29	0.82	0.46	0.30	0.25	
2	0.19	0.35	0.26	0.40	0.26	0.55	1.04	1.40	1.17	0.46	0.30	0.24	
3	0.18	0.46	0.56	0.36	0.26	0.54	0.76	1.10	0.89	0.46	0.29	0.24	
4	0.18	0.34	0.47	0.34	0.26	0.61	0.66	1.02	0.83	0.45	0.34	0.23	
5	0.18	0.38	0.44	0.31	0.25	0.51	0.68	0.92	0.79	0.45	0.33	0.23	
6	0.18	0.33	0.37	0.30	0.25	0.48	0.62	2.57	0.77	0.44	0.33	0.36	
7	0.18	0.29	0.36	0.30	0.37	0.57	0.77	3.05	1.11	0.42	0.76	0.26	
8	0.19	0.38	0.32	0.29	0.34	0.64	0.77	1.58	0.87	0.42	0.44	0.25	
9	0.19	0.28	0.38	0.29	0.40	0.54	0.74	1.82	0.80	0.40	0.36	0.25	
10	0.18	0.27	0.36	0.28	1.01	0.50	0.76	1.51	0.76	0.40	0.35	0.24	
11	0.17	0.26	0.30	0.27	0.66	0.49	0.76	1.41	0.72	0.46	0.32	0.23	
12	0.17	0.24	0.28	0.27	0.49	0.93	1.54	1.18	0.69	0.41	0.30	0.22	
13	0.16	0.49	0.28	0.26	0.45	0.77	1.09	1.39	0.71	0.39	0.29	0.20	
14	0.16	0.35	0.34	0.27	0.45	0.65	0.90	1.10	2.41	0.38	0.28	0.24	
15	0.18	0.66	0.76	0.26	0.40	0.60	0.89	1.00	1.08	0.37	0.27	0.20	
16	0.20	0.50	0.46	0.26	0.72	0.56	0.98	1.25	0.96	0.37	0.27	0.20	
17	0.18	0.40	0.40	0.25	2.65	0.52	0.90	1.10	0.87	0.36	0.32	0.19	
18	0.18	0.38	1.14	0.27	3.02	0.55	0.86	1.03	0.85	0.36	0.38	0.19	
19	0.20	0.38	0.98	0.37	1.42	0.63	0.76	0.98	0.78	0.40	0.34	0.19	
20	0.26	0.36	0.83	0.38	1.05	0.54	0.86	0.90	0.73	0.37	0.29	0.23	
21	0.20	0.32	0.71	0.33	1.24	0.51	1.01	0.86	0.68	0.36	0.27	0.22	
22	0.20	0.30	0.58	0.36	1.40	0.49	1.04	0.95	0.66	0.36	0.27	0.20	
23	0.19	0.27	0.67	0.30	1.20	0.77	0.97	0.96	0.64	0.36	0.27	0.18	
24	0.20	0.27	0.54	0.27	1.04	0.61	0.85	0.90	0.62	0.35	0.38	0.17	
25	0.22	0.26	0.47	0.26	0.97	0.54	1.14	0.94	0.58	0.34	0.30	0.26	
26	0.37	0.26	0.44	0.26	0.86	0.69	1.69	0.85	0.57	0.32	0.27	0.19	
27	0.27	0.26	0.42	0.40	0.76	0.61	1.24	0.81	0.55	0.32	0.26	0.19	
28	0.25	0.25	0.44	0.29	0.75	0.57	1.35	1.21	0.52	0.34	0.26	0.18	
29	0.22	0.32	0.40	0.27	0.68	0.53	1.15	0.92	0.50	0.32	0.26	0.18	
30	0.19	0.35	0.39	0.26	0.64	0.50	1.02	0.83	0.48	0.30		0.17	
31		0.27		0.26	0.62		0.95		0.47	0.30		0.17	
MEAN	0.20	0.35	0.49	0.30	0.81	0.59	0.96	1.23	0.80	0.38	0.32	0.22	
MAX	0.37	0.66	1.14	0.40	3.02	0.93	1.69	3.05	2.41	0.46	0.76	0.36	3.05
MIN	0.16	0.24	0.26	0.25	0.25	0.48	0.62	0.81	0.47	0.30	0.26	0.17	0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.40 M (A.D), AT 6.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.42 M (A.D)
LEFT BANK ELEVATION 4.05 M (A.D)
RIGHT BANK ELEVATION 6.37 M (A.D), DRAINAGE AREA 127 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	1.50	0.41	0.90	0.41	1.83	4.58	7.50	3.46	1.23	0.55	0.38	
2	0.18	0.72	0.41	0.90	0.41	1.73	5.22	8.60	6.33	1.23	0.55	0.34	
3	0.16	1.23	1.78	0.76	0.41	1.67	3.02	5.70	4.02	1.23	0.52	0.34	
4	0.16	0.69	1.28	0.69	0.41	2.06	2.36	5.06	3.54	1.17	0.69	0.31	
5	0.16	0.83	1.12	0.58	0.38	1.50	2.48	4.26	3.23	1.17	0.66	0.31	
6	0.16	0.66	0.80	0.55	0.38	1.34	2.12	22.48	3.09	1.12	0.66	0.76	
7	0.16	0.52	0.76	0.55	0.80	1.83	3.09	29.20	5.79	1.01	3.02	0.41	
8	0.18	0.83	0.62	0.52	0.69	2.24	3.09	10.40	3.86	1.01	1.12	0.38	
9	0.18	0.48	0.83	0.52	0.90	1.67	2.88	13.04	3.30	0.90	0.76	0.38	
10	0.16	0.45	0.76	0.48	4.98	1.45	3.02	9.70	3.02	0.90	0.72	0.34	
11	0.14	0.41	0.55	0.45	2.36	1.39	3.02	8.70	2.74	1.23	0.62	0.31	
12	0.14	0.34	0.48	0.45	1.39	4.34	10.00	6.42	2.54	0.95	0.55	0.27	
13	0.12	1.39	0.48	0.41	1.17	3.09	5.62	8.50	2.67	0.86	0.52	0.20	
14	0.12	0.72	0.69	0.45	1.17	2.30	4.10	5.70	20.33	0.83	0.48	0.34	
15	0.16	2.36	3.02	0.41	0.90	2.00	4.02	4.90	5.54	0.80	0.45	0.20	
16	0.20	1.45	1.23	0.41	2.74	1.78	4.74	7.10	4.58	0.80	0.45	0.20	
17	0.16	0.90	0.90	0.38	23.60	1.56	4.10	5.70	3.86	0.76	0.62	0.18	
18	0.16	0.83	6.06	0.45	28.78	1.73	3.78	5.14	3.70	0.76	0.83	0.18	
19	0.20	0.83	4.74	0.80	8.80	2.18	3.02	4.74	3.16	0.90	0.69	0.18	
20	0.41	0.76	3.54	0.83	5.30	1.67	3.78	4.10	2.81	0.80	0.52	0.31	
21	0.20	0.62	2.67	0.66	7.00	1.50	4.98	3.78	2.48	0.76	0.45	0.27	
22	0.20	0.55	1.89	0.76	8.60	1.39	5.22	4.50	2.36	0.76	0.45	0.20	
23	0.18	0.45	2.42	0.55	6.60	3.09	4.66	4.58	2.24	0.76	0.45	0.16	
24	0.20	0.45	1.67	0.45	5.22	2.06	3.70	4.10	2.12	0.72	0.83	0.14	
25	0.27	0.41	1.28	0.41	4.66	1.67	6.06	4.42	1.89	0.69	0.55	0.41	
26	0.80	0.41	1.12	0.41	3.78	2.54	11.50	3.70	1.83	0.62	0.45	0.18	
27	0.45	0.41	1.01	0.90	3.02	2.06	7.00	3.38	1.73	0.62	0.41	0.18	
28	0.38	0.38	1.12	0.52	2.95	1.83	8.10	6.70	1.56	0.69	0.41	0.16	
29	0.27	0.62	0.90	0.45	2.48	1.61	6.15	4.26	1.45	0.62	0.41	0.16	
30	0.18	0.72	0.86	0.41	2.24	1.45	5.06	3.54	1.34	0.55		0.14	
31		0.45		0.41	2.12		4.50		1.28	0.55		0.14	
TOTAL	6.62	23.37	45.40	17.42	134.65	58.56	144.97	219.90	111.85	27.00	19.39	8.46	817.59 CMSDAY
MEAN	0.22	0.75	1.51	0.56	4.34	1.95	4.68	7.33	3.61	0.87	0.67	0.27	2.23 CMS
MAX	0.80	2.36	6.06	0.90	28.78	4.34	11.50	29.20	20.33	1.23	3.02	0.76	29.20 CMS
MIN	0.12	0.34	0.41	0.38	0.38	1.34	2.12	3.38	1.28	0.55	0.41	0.14	0.12 CMS
RUNOFF	0.572	2.019	3.923	1.505	11.634	5.060	12.525	18.999	9.664	2.333	1.675	0.731	70.640 MCM

MOMENTARY PEAK 34.30 CMS, AT 3.40 M (A.D), AT 6.00 HOURS, ON AUG 18, 1987
RUNOFF YIELD 17.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 270.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

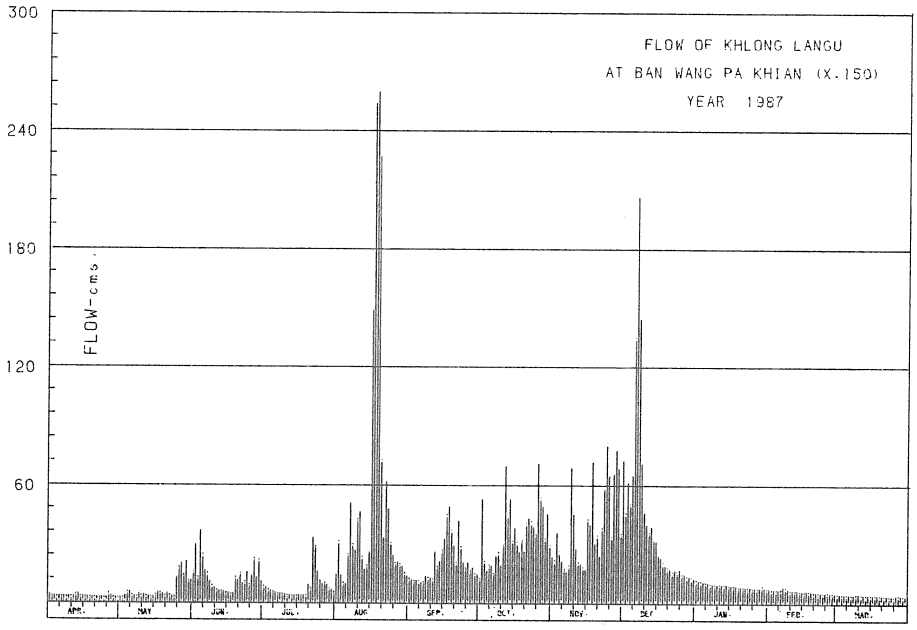
KHLONG LANGU AT BAN WANG PA KHIAN, SATUN (X.150)

LOCATION	LAT. 6°-56-30 N., LONG. 99-52-33 E., ON RIGHT BANK AT BAN WANG PA KHIAN, AMPHOE LANGU, SATUN.
DRAINAGE AREA	552 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 5 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.520 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	1984 TO DATE
RATING OPERATION	
PERIOD OF RATING	1984 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1984 TO DATE
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 165 DISCHARGE MEASUREMENTS MADE IN 1987.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.58	1.57	1.10	1.48	1.37	1.38	1.95	3.96	1.31	0.98	0.77	
2	0.66	0.60	2.24	1.05	2.33	1.31	3.25	1.88	2.97	1.29	0.96	0.76	
3	0.65	0.66	1.40	0.97	1.46	1.29	1.86	2.51	3.57	1.27	0.95	0.75	
4	0.64	0.86	2.56	0.92	1.23	1.30	1.59	2.10	3.15	1.24	0.95	0.75	
5	0.64	0.85	2.02	0.88	1.18	1.29	1.77	1.85	3.70	1.23	0.94	0.75	
6	0.64	0.71	1.60	0.84	2.02	1.22	1.74	1.65	5.71	1.22	0.96	0.74	
7	0.64	0.65	1.53	0.80	3.17	1.26	1.52	1.55	7.13	1.19	1.06	0.74	
8	0.63	0.65	1.27	0.79	2.26	1.42	1.97	1.75	5.94	1.18	1.04	0.73	
9	0.63	0.76	1.12	0.77	2.11	1.39	2.07	3.84	3.91	1.16	0.97	0.77	
10	0.64	0.70	1.03	0.75	2.83	1.37	1.74	2.99	3.02	1.15	0.92	0.77	
11	0.64	0.72	0.95	0.72	2.98	1.35	2.24	2.14	2.69	1.17	0.92	0.74	
12	0.76	0.68	0.90	0.71	1.97	2.07	3.87	1.84	2.53	1.15	0.92	0.73	
13	0.76	0.64	0.90	0.70	1.62	1.72	2.92	1.78	2.64	1.15	0.91	0.73	
14	0.66	0.63	0.87	0.69	1.76	1.85	3.25	1.70	2.40	1.15	0.89	0.72	
15	0.65	0.63	0.83	0.70	2.06	2.12	2.34	1.62	2.31	1.12	0.88	0.73	
16	0.64	0.73	0.81	0.70	6.03	2.37	2.63	2.83	2.05	1.10	0.88	0.72	
17	0.63	0.83	0.77	0.71	7.96	2.93	2.31	2.69	1.93	1.10	0.90	0.72	
18	0.62	0.83	0.78	0.69	8.09	3.09	2.06	3.99	1.83	1.09	0.89	0.72	
19	0.62	0.77	1.41	0.71	7.49	2.58	2.36	2.26	1.73	1.07	0.87	0.71	
20	0.61	0.70	1.30	1.14	3.98	2.21	2.08	2.47	1.68	1.06	0.84	0.70	
21	0.60	0.79	1.52	1.03	2.39	1.84	2.74	1.97	1.63	1.05	0.83	0.70	
22	0.59	0.72	1.19	2.40	3.65	2.78	2.84	2.64	1.57	1.05	0.83	0.68	
23	0.58	0.66	1.26	2.21	3.04	2.20	2.78	3.44	1.60	1.04	0.82	0.67	
24	0.59	0.65	1.54	1.57	2.30	1.82	2.64	4.27	1.58	1.04	0.81	0.66	
25	0.59	1.38	1.15	1.29	1.99	1.68	2.48	3.70	1.62	1.02	0.81	0.65	
26	0.82	1.70	1.44	1.17	1.82	1.82	3.91	2.42	1.48	1.02	0.84	0.70	
27	0.68	1.81	1.93	1.23	1.84	1.60	3.29	3.73	1.48	1.01	0.80	0.73	
28	0.62	1.47	1.38	1.15	1.80	1.68	3.09	4.19	1.43	1.01	0.80	0.70	
29	0.60	1.84	1.90	1.02	1.72	1.51	2.39	3.83	1.40	1.10	0.78	0.69	
30	0.58	1.29	1.27	0.94	1.54	1.47	2.93	2.50	1.39	1.02		0.67	
31		1.29		0.88	1.44		2.24		1.35	0.99		0.67	
MEAN	0.64	0.90	1.35	1.01	2.82	1.80	2.46	2.60	2.63	1.12	0.89	0.72	
MAX	0.82	1.84	2.56	2.40	8.09	3.09	3.91	4.27	7.13	1.31	1.06	0.77	8.09
MIN	0.58	0.58	0.77	0.69	1.18	1.22	1.38	1.55	1.35	0.99	0.78	0.65	0.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.13 M (A.D), AT 13.00 HOURS, ON AUG 18, 1987
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.30 M (A.D)
LEFT BANK ELEVATION 8.79 M (A.D)
RIGHT BANK ELEVATION 8.36 M (A.D), DRAINAGE AREA 552 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.12	2.64	16.09	8.70	14.56	12.72	12.88	23.32	72.30	11.76	7.16	4.67	
2	3.46	2.80	29.68	8.05	31.66	11.76	52.85	21.82	46.11	11.44	6.92	4.56	
3	3.35	3.46	13.20	7.04	14.22	11.44	21.39	35.62	61.19	11.12	6.80	4.45	
4	3.24	5.72	36.72	6.44	10.48	11.60	16.43	26.60	50.40	10.64	6.80	4.45	
5	3.24	5.60	24.84	5.96	9.74	11.44	19.57	21.18	64.70	10.48	6.68	4.45	
6	3.24	4.01	16.60	5.48	24.84	10.32	19.05	17.47	135.13	10.32	6.92	4.34	
7	3.24	3.35	15.41	5.00	50.88	10.96	15.24	15.75	206.23	9.87	8.18	4.34	
8	3.13	3.35	11.12	4.89	30.12	13.54	23.76	19.22	145.87	9.74	7.92	4.23	
9	3.13	4.56	8.96	4.67	26.82	13.04	25.94	68.70	70.80	9.48	7.04	4.67	
10	3.24	3.90	7.79	4.45	42.89	12.72	19.05	46.57	47.28	9.35	6.44	4.67	
11	3.24	4.12	6.80	4.12	46.34	12.40	29.68	27.48	39.67	9.61	6.44	4.34	
12	4.56	3.68	6.20	4.01	23.76	25.94	69.60	20.96	36.06	9.35	6.44	4.23	
13	4.56	3.24	6.20	3.90	16.95	18.70	44.96	19.75	38.52	9.35	6.32	4.23	
14	3.46	3.13	5.84	3.79	19.40	21.18	52.85	18.35	33.20	9.35	6.08	4.12	
15	3.35	3.13	5.36	3.90	25.72	27.04	31.88	16.95	31.22	8.96	5.96	4.23	
16	3.24	4.23	5.12	3.90	150.07	32.54	38.29	42.89	25.50	8.70	5.96	4.12	
17	3.13	5.36	4.67	4.01	253.86	45.19	31.22	39.67	22.89	8.70	6.20	4.12	
18	3.02	5.36	4.78	3.79	261.29	48.96	25.72	73.20	20.75	8.57	6.08	4.12	
19	3.02	4.67	13.37	4.01	226.92	37.16	32.32	30.12	18.88	8.31	5.84	4.01	
20	2.91	3.90	11.60	9.22	72.90	29.02	26.16	34.74	18.00	8.18	5.48	3.90	
21	2.80	4.89	15.24	7.79	32.98	20.96	40.82	23.76	17.12	8.05	5.36	3.90	
22	2.72	4.12	9.87	33.20	63.35	41.74	43.12	38.52	16.09	8.05	5.36	3.68	
23	2.64	3.46	10.96	29.02	47.76	28.80	41.74	57.68	16.60	7.92	5.24	3.57	
24	2.72	3.35	15.58	16.09	31.00	20.53	38.52	81.60	16.26	7.92	5.12	3.46	
25	2.72	12.88	9.35	11.44	24.18	18.00	34.96	64.70	16.95	7.66	5.12	3.35	
26	5.24	18.35	13.88	9.61	20.53	20.53	70.80	33.64	14.56	7.66	5.48	3.90	
27	3.68	20.31	22.89	10.48	20.96	16.60	53.85	65.54	14.56	7.53	5.00	4.23	
28	3.02	14.39	12.88	9.35	20.10	18.00	48.96	79.20	13.71	7.53	5.00	3.90	
29	2.80	20.96	22.25	7.66	18.70	15.07	32.98	68.40	13.20	8.70	4.78	3.79	
30	2.64	11.44	11.12	6.68	15.58	14.39	45.19	35.40	13.04	7.66		3.57	
31		11.44		5.96	13.88		29.68		12.40	7.28		3.57	
TOTAL	98.86	205.80	394.37	252.61	1662.44	632.29	1089.46	1168.80	1349.19	279.24	178.12	127.17	7438.35 CMSDAY
MEAN	3.30	6.64	13.15	8.15	53.63	21.08	35.14	38.96	43.52	9.01	6.14	4.10	20.32 CMS
MAX	5.24	20.96	36.72	33.20	261.29	48.96	70.80	81.60	206.23	11.76	8.18	4.67	261.29 CMS
MIN	2.64	2.64	4.67	3.79	9.74	10.32	12.88	15.75	12.40	7.28	4.78	3.35	2.64 CMS
RUNOFF	8.542	17.781	34.074	21.826	143.635	54.630	94.129	100.984	116.570	24.126	15.390	10.987	642.674 MCM

MOMENTARY PEAK 263.57 CMS, AT 8.13 M (A.D), AT 13.00 HOURS, ON AUG 18, 1987
RUNOFF YIELD 36.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 477.48 LITERS/SECOND/SQUARE KM

SUSPENDED SEDIMENT STATION

1. Nam Mae Chaem at Kaeng Ob Luang, Chiang Mai (P.14)
2. Wang River at Ban Jai, Lampang (W.16)
3. Yom River at Ban Kaeng Luang, Sukhothai (Y.6)
4. Yom River at Ban Don Rabiang, Sukhothai (Y.14)
5. Yom River at Ban Ngao Sak, Phrae (Y.20)
6. Nan River at Nan, Nan (N.1)
7. Nan River at Phitsanulok, Phitsanulok (N.5A)
8. Nam Pat at Ban Wang Bang, Uttaradit (N.33)
9. Chao Phraya River at Nakhon Sawan, Nakhon Sawan (C.2)
10. Pasak River at Ban Muang Nua, Saraburi (S.9)
11. Huai Nam Chun at Ban Fai Wang Bon, Phetchabun (S.17)
12. Huai Bang 1 at Ban Non Yang, Muk Dahan (Kh.79)
13. Chi River at Ban Tha Phra, Khon Kaen (E.16A)
14. Chi River at Ban Nong O, Chaiyaphum (E.32A)
15. Nam Yang at Ban Kaeng Yao, Kalasin (E.54)
16. Lam Khan Chu at Ban Khok Phangat, Chaiyaphum (E.60)
17. Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)
18. Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)
19. Lam Takhong at Pak Chong, Nakhon Ratchasima (M.89)
20. Huai Samran at Ban Tamuan, Si Sa Ket (M.91)
21. Huai Thap Than at Ban Yaeng, Surin (M.101)
22. Khlong Samo Pun at Prachin Buri, Prachin Buri (Ny.4)
23. Prachin Buri River at Kabin Buri, Prachin Buri (Kgt.3)
24. Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt.10)
25. Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt.12)
26. Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)
27. Khlong Rabom at Ban Cham Pa Ngam, Chachoengsao (Kgt.25)
28. Khwae Noi River at Ban Lum Sum, Kanchanaburi (K.10)
29. Huai Samnak Mai Teng at Ban Nam Phu, Ratchaburi (K.28)
30. Huai Mae Prachan at Ban Kariang, Phetchaburi (B.8)
31. Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)
32. Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X.67)
33. Khlong Tha Khae at Ban Tha Khae, Phatthalung (X.68)
34. Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)
35. Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)
36. Khlong Sadao at Ban Phrai, Songkhla (X.111)
37. Kolok River at Sungai Kolok, Narathiwat (X.119)
38. Khlong Waeng at Waeng, Narathiwat (X.121)
39. Khlong Tha Ma Dua at Ban Khlong Ai To, Phatthalung (X.129)
40. Trang River at Ban Tha Pradu, Trang (X.56)
41. Khlong Lamphu at Ban Thung Ngiu, Trang (X.110)
42. Khlong Palian at Ban Lam Khlaeng (2), Trang (X.139)

WATER YEAR 1987

PING RIVER BASIN

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

LOCATION — LAT. 18°-13'-49" N., LONG. 98°-33'-35" E., ON RIGHT BANK NEAR THE BRIDGE OF HOT-MAE SARIANG HIGHWAY AT GUIDEPOST 7+500, AMPHOE HOT, CHIANG MAI.

DRAINAGE AREA — 3,853 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D- 49

PERIOD OF AVAILABLE RECORDS — 1967-1975,1983 TO DATE

ACTUAL MEASUREMENT — 1970-1971,1983 TO DATE

REMARKS — CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1983 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - KAENG OB LUANG, HOT, CHIANG MAI, (P.14)
STREAM - NAM MAE CHAEM
RIVER - PING
RIVER SYSTEM - PING RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 281288

$Q_S = 0.1994\ Q_W^{2.47517}$

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.7	136.9	30.2	66.9	109.7	4104.1	20284.7	1847.8	1370.1	356.2	118.4	41.9	
2	3.0	56.1	33.9	93.5	127.5	3424.6	23453.8	1720.4	1318.2	356.2	118.4	37.8	
3	3.0	30.2	127.5	72.7	167.9	2913.4	26391.0	1598.4	1217.9	356.2	109.7	33.9	
4	3.0	56.1	86.0	56.1	146.8	2294.3	19429.2	2134.1	1169.5	335.2	101.4	33.9	
5	3.0	66.9	51.1	46.4	118.4	1720.4	67101.0	2134.1	1122.2	314.9	93.5	30.2	
6	3.0	93.5	127.5	61.3	101.4	3111.9	24896.6	1720.4	1076.2	297.7	93.5	33.9	
7	3.7	61.3	4471.7	101.4	109.7	3643.0	18187.0	1658.7	1031.2	281.1	93.5	30.2	
8	3.7	30.2	11280.1	72.7	61.3	2547.6	9737.3	47284.0	944.8	265.0	93.5	37.8	
9	6.2	21.9	903.2	78.8	61.3	2913.4	7711.6	36798.7	903.2	265.0	93.5	37.8	
10	7.2	27.2	473.0	93.5	118.4	3985.8	5734.1	11845.4	824.9	265.0	86.0	37.8	
11	8.3	56.1	297.7	127.5	180.1	6913.7	9985.0	6053.1	750.7	265.0	78.8	37.8	
12	8.3	27.2	473.0	167.9	448.1	6053.1	8562.0	5734.1	750.7	234.6	86.0	33.9	
13	9.7	51.1	265.0	180.1	525.3	9737.3	15278.5	5126.6	680.7	220.1	86.0	33.9	
14	9.7	27.2	136.9	157.1	297.7	16682.3	6382.5	4104.1	647.2	265.0	78.8	33.9	
15	7.2	21.9	167.9	127.5	167.9	25389.0	11560.7	16324.5	647.2	249.5	78.8	30.2	
16	11.4	66.9	281.1	118.4	1658.7	11845.4	12134.3	9737.3	614.7	234.6	72.7	27.2	
17	17.2	27.2	127.5	93.5	1425.2	7711.6	6216.5	6382.5	583.2	220.1	72.7	24.5	
18	78.8	27.2	448.1	78.8	15278.5	3755.2	4858.2	4347.1	525.3	206.3	66.9	24.5	
19	37.8	17.2	1318.2	78.8	59660.4	9252.8	4727.3	7711.6	525.3	192.9	66.9	21.9	
20	15.1	9.7	552.7	206.3	18595.6	10491.8	5734.1	5734.1	473.0	192.9	61.3	21.9	
21	9.7	7.2	448.1	498.7	4598.4	21162.3	5892.3	4347.1	448.1	192.9	61.3	21.9	
22	11.4	4.4	525.3	220.1	2817.0	11280.1	4471.7	3111.9	448.1	180.1	56.1	19.4	
23	30.2	3.7	206.3	127.5	5425.3	8130.2	4347.1	2725.4	423.9	167.9	56.1	17.2	
24	30.2	3.7	93.5	136.9	31288.3	6551.1	3869.5	2377.0	400.6	157.1	56.1	15.1	
25	17.2	3.0	61.3	1169.5	150912.0	3869.5	3318.4	2213.3	423.9	146.8	51.1	15.1	
26	8.3	11.4	51.1	824.9	140506.6	3011.7	3318.4	1980.7	400.6	146.8	46.4	15.1	
27	6.2	180.1	78.8	647.2	51225.1	7306.2	2725.4	1847.8	423.9	136.9	41.9	15.1	
28	9.7	21.9	46.4	281.1	21162.3	148795.5	4104.1	1658.7	400.6	127.5	41.9	13.1	
29	314.9	27.2	56.1	192.9	11013.6	88656.4	4104.1	1539.3	378.0	127.5	41.9	15.1	
30	525.3	33.9	56.1	127.5	6551.1	34272.3	2635.6	1481.6	356.2	127.5		15.1	
31		13.1		36.0	5578.4		2056.5		335.2	127.5		15.1	
TOTAL	1206.1	1221.6	23275.3	6391.5	530438.0	471526.0	349208.5	203279.8	21615.3	7012.0	2203.1	822.2	1618199.4 TON
MEAN	40.2	39.4	775.8	206.2	17110.9	15717.5	11264.8	6776.0	697.3	226.2	76.0	26.5	
MAX	525.3	180.1	11280.1	1169.5	150912.0	148795.5	67101.0	47284.0	1370.1	356.2	118.4	41.9	150912.0
MIN	3.0	3.0	30.2	46.4	61.3	1720.4	2056.5	1481.6	335.2	127.5	41.9	13.1	3.0

WATER YEAR 1987

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.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED U.S.D - 49

PERIOD OF AVAILABLE RECORDS 1986 TO DATE

ACTUAL MEASUREMENT 1986 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1986 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN HAI, CHAE HOM, LAMPANG, (W.16)
STREAM - WANG
RIVER - WANG
RIVER SYSTEM - WANG RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 281288

1.74480
QS = 2.0674 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.11	7.42	1.11	0.62	3.27	89.73	337.30	15.05	19.32	3.27	0.33	0.10	
2	0.11	4.95	0.97	0.51	2.76	106.39	451.05	14.39	17.85	3.27	0.33	0.08	
3	0.10	3.58	1.46	0.42	3.01	81.25	600.36	16.43	17.85	3.01	0.51	0.08	
4	0.10	3.27	12.46	0.33	3.01	65.70	529.19	19.32	17.13	2.52	0.42	0.08	
5	0.08	17.85	20.27	0.42	2.76	45.21	440.32	19.32	15.73	2.76	0.42	0.08	
6	0.08	57.12	5.33	0.42	4.95	45.21	225.25	18.58	15.05	2.29	0.42	0.08	
7	0.08	45.21	3.58	0.42	9.52	39.71	168.13	21.23	14.39	1.65	0.33	0.07	
8	0.08	25.28	106.39	0.42	6.51	53.02	207.14	751.34	13.09	1.65	0.25	0.07	
9	0.08	13.73	1431.91	0.42	7.92	138.25	195.43	506.32	11.85	1.65	0.18	0.08	
10	0.08	8.98	195.43	0.33	11.85	679.17	244.01	288.75	11.25	1.65	0.12	0.07	
11	0.08	6.93	55.05	0.33	13.09	354.62	129.48	178.65	10.66	1.28	0.18	0.07	
12	0.07	5.33	29.63	0.85	11.25	178.65	99.13	117.69	9.52	1.86	0.12	0.07	
13	0.07	3.91	17.13	0.42	11.25	133.51	67.93	89.73	8.44	1.86	0.11	0.06	
14	0.06	3.27	11.25	0.33	7.42	110.10	59.21	78.51	7.92	1.65	0.11	0.06	
15	0.06	4.24	7.42	0.25	4.95	133.51	59.21	73.14	7.92	1.65	0.11	0.04	
16	0.06	4.24	9.52	0.25	5.33	265.97	89.73	61.34	6.93	1.65	0.12	0.04	
17	0.07	4.24	8.44	0.18	13.09	296.51	47.11	55.05	6.51	2.07	0.12	0.03	
18	0.42	3.27	6.51	0.18	3794.02	399.55	34.51	55.05	6.10	1.86	0.12	0.03	
19	0.11	2.76	6.10	0.18	3898.99	651.18	41.51	55.05	5.33	2.07	0.12	0.03	
20	0.08	2.29	3.91	0.11	2264.06	3066.92	34.51	59.21	5.33	1.65	0.11	0.03	
21	0.11	2.07	3.01	1.46	862.30	2850.39	34.51	75.80	4.24	1.28	0.11	0.03	
22	0.42	1.86	2.52	2.52	281.07	1231.78	32.85	59.21	3.91	1.11	0.18	0.03	
23	1.86	1.65	2.07	0.85	2579.84	506.32	25.28	45.21	4.59	0.97	0.18	0.03	
24	1.86	0.97	1.65	0.62	16681.64	251.24	23.22	39.71	4.59	0.85	0.18	0.03	
25	1.28	0.85	1.28	4.24	12508.58	147.93	27.42	34.51	4.59	0.85	0.18	0.03	
26	0.73	0.85	1.11	25.28	3640.19	2434.86	39.71	28.52	4.59	0.85	0.18	0.02	
27	11.35	0.73	0.85	17.13	1275.14	5197.25	34.51	26.34	3.91	0.73	0.12	0.03	
28	15.05	0.62	0.73	11.25	588.23	2889.98	27.42	25.28	3.27	0.73	0.10	0.03	
29	22.22	1.65	0.62	6.51	328.77	1071.02	23.22	22.22	3.27	0.62	0.08	0.03	
30	16.43	8.98	0.62	4.24	162.98	552.48	21.23	20.27	3.58	0.62		0.03	
31		2.29		3.91	102.73		17.85		3.27	0.51		0.03	
TOTAL	73.19	250.39	1948.33	85.40	49090.48	24067.41	4367.73	2871.22	271.98	50.44	5.84	1.57	83083.98 TON
MEAN	2.44	8.08	64.94	2.75	1583.56	802.25	140.89	95.71	8.77	1.63	0.20	0.05	
MAX	22.22	57.12	1431.91	25.28	16681.64	5197.25	600.36	751.34	19.32	3.27	0.51	0.10	16681.64
MIN	0.06	0.62	0.62	0.11	2.76	39.71	17.85	14.39	3.27	0.51	0.08	0.02	0.02

WATER YEAR 1987

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.
METHOD OF SAMPLING	DEPTH INTEGRATING
INSTRUMENT USED	US.D- 49
PERIOD OF AVAILABLE RECORDS	1953-1975,1980 TO DATE
ACTUAL MEASUREMENT	1952,1963-1966,1980 TO DATE
REMARKS	CONTINUED SEDIMENT STATION USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN KAENG LUANG, SI SATCHANALAI, SUKHOTHAI, (Y.6)
STREAM - YOM
RIVER - YOM
RIVER SYSTEM - YOM RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 090189
1.53741
QS = 1.3223 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.1	14.7	5.1	24.1	16.7	2309.7	13634.5	640.6	354.9	34.2	10.3	4.1	
2	5.1	11.6	5.7	21.9	12.9	2154.1	8627.1	524.6	329.4	34.2	10.3	3.5	
3	5.7	10.3	6.8	18.7	18.7	1862.1	6319.4	476.1	304.5	31.7	10.3	3.5	
4	6.8	8.3	11.1	15.7	20.8	1451.7	6999.5	476.1	288.4	28.7	10.3	3.5	
5	5.1	7.2	11.1	12.9	14.7	1114.7	8469.9	614.3	272.5	27.5	10.3	2.7	
6	4.1	10.3	11.1	11.6	14.7	891.9	7419.1	626.6	260.8	28.7	9.5	2.5	
7	3.3	9.1	14.7	16.7	14.7	1114.7	5198.4	614.3	243.0	27.5	9.1	2.5	
8	2.7	12.9	26.3	19.7	12.5	3844.8	3248.0	667.3	226.8	27.5	8.3	2.2	
9	2.7	31.7	45.6	21.9	10.3	5257.2	3288.6	925.8	215.9	26.3	8.3	2.7	
10	2.2	34.2	168.4	25.2	14.7	5551.0	3580.6	1072.1	205.1	26.3	7.9	2.5	
11	2.2	99.3	194.5	24.1	22.9	4186.7	8158.6	1381.8	200.4	26.3	7.9	2.7	
12	2.2	85.9	200.4	19.7	21.9	3130.5	3326.2	2635.1	184.1	25.2	7.2	2.5	
13	2.0	58.0	106.8	16.7	25.2	3580.6	5865.7	1783.3	168.4	24.1	7.2	2.0	
14	1.8	45.6	71.5	12.9	27.5	4972.6	3538.8	1268.1	154.2	24.1	6.8	1.8	
15	1.8	42.1	89.4	12.5	19.7	11536.3	2309.7	1114.7	144.7	22.9	6.8	1.5	
16	1.8	44.2	178.5	11.6	18.7	13634.5	1862.1	1030.1	140.5	22.9	6.1	1.5	
17	1.8	31.7	144.7	10.3	26.3	15673.8	1678.4	978.5	122.3	22.9	5.7	2.0	
18	2.5	25.2	164.0	10.3	465.0	15549.8	1451.7	1836.6	103.0	19.7	5.7	1.5	
19	2.7	19.7	249.3	11.6	2635.1	8158.6	1201.5	1651.2	89.4	17.7	6.8	1.5	
20	4.4	17.7	205.1	10.3	30142.1	7565.0	1093.3	1114.7	73.9	15.7	6.8	1.5	
21	4.1	16.7	164.0	9.1	29010.1	17573.9	1013.5	978.5	63.4	15.7	6.1	1.3	
22	3.5	14.7	106.8	8.3	12570.1	31289.1	1451.7	874.1	55.7	14.7	5.7	1.1	
23	4.4	11.1	126.2	11.1	4972.6	19753.2	1599.9	858.4	53.5	13.8	6.1	1.1	
24	4.1	8.3	89.4	10.3	3891.1	11232.3	1626.7	751.4	49.8	12.9	5.7	0.9	
25	3.5	7.9	58.0	10.3	55161.6	9185.2	1451.7	614.3	44.2	12.5	6.1	0.8	
26	3.5	12.9	44.2	10.3	112486.6	7068.9	1245.7	536.2	42.1	12.5	6.1	0.8	
27	5.1	10.3	34.2	19.7	88085.4	13419.2	1136.2	524.6	38.8	12.5	5.7	0.6	
28	5.1	11.1	47.7	20.8	22141.6	42968.3	1051.0	465.0	36.8	11.6	4.4	0.5	
29	12.5	10.3	45.6	18.7	8944.5	45700.4	978.5	423.0	36.8	11.6	4.4	0.6	
30	15.7	9.5	33.0	18.7	5312.5	29763.1	827.3	392.9	36.8	11.1		0.5	
31		9.1		20.8	3367.0		707.1		35.5	10.3		0.6	
TOTAL	126.5	741.6	2659.2	486.5	379498.2	341493.9	110360.4	27850.3	4575.6	653.3	211.9	57.0	868714.5 TON
MEAN	4.2	23.9	88.6	15.7	12241.9	11383.1	3560.0	928.3	147.6	21.1	7.3	1.8	
MAX	15.7	99.3	249.3	25.2	112486.6	45700.4	13634.5	2635.1	354.9	34.2	10.3	4.1	112486.6
MIN	1.8	7.2	5.1	8.3	10.3	891.9	707.1	392.9	35.5	10.3	4.4	0.5	0.5

WATER YEAR 1987

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 GUIDEPOST 44 TH., AMPHOE SI SATCHANALAI, SUKHOTHAI.

DRAINAGE AREA — 12,131 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — U.S.D- 49

PERIOD OF AVAILABLE RECORDS — 1964 TO DATE

ACTUAL MEASUREMENT — 1969-1971,1973 TO DATE

REMARKS — CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN DON RABIANG, SI SATCHANALAI, SUKHOTHAI, (Y.14)
STREAM - YOM
RIVER - YOM
RIVER SYSTEM - YOM RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 170189
1.61838
QS = 0.1876 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.86	3.88	1.86	5.93	4.30	405.76	2613.01	76.45	44.88	8.59	4.10	2.18	
2	2.01	3.47	1.86	5.69	4.30	388.77	1595.58	63.34	41.24	8.02	4.10	2.01	
3	2.35	2.70	2.01	4.76	6.69	299.87	1133.00	59.18	38.88	7.75	3.88	2.01	
4	1.86	2.35	2.35	4.10	5.21	221.89	1489.06	59.18	37.72	7.48	3.88	2.01	
5	1.70	2.35	2.70	3.67	4.76	169.67	1677.29	80.10	34.33	7.48	4.30	2.01	
6	1.26	2.70	4.53	4.76	4.98	131.41	1309.52	80.10	33.23	7.48	3.88	1.86	
7	1.13	3.27	5.21	5.45	4.53	209.78	828.44	81.95	28.33	7.21	3.67	1.70	
8	1.00	7.75	8.30	5.45	3.67	875.83	544.38	94.70	26.69	7.21	3.47	1.70	
9	0.88	6.95	11.28	6.69	3.27	1004.08	565.62	158.36	26.69	6.95	3.47	1.70	
10	0.88	11.91	21.46	6.19	6.69	1166.15	616.37	152.82	25.89	6.95	3.47	1.86	
11	0.76	14.70	25.89	5.69	5.93	772.92	2095.95	318.40	25.10	6.95	3.27	1.70	
12	0.66	12.82	20.36	4.98	6.19	523.45	1878.07	440.57	23.54	6.95	3.08	1.70	
13	0.66	10.05	13.28	4.53	6.95	710.03	1004.08	234.26	21.46	6.95	3.08	1.55	
14	0.66	9.16	11.59	3.88	5.93	828.44	594.42	163.98	20.90	6.69	2.89	1.41	
15	0.55	9.74	24.31	3.67	4.76	2269.70	361.61	144.65	19.81	6.69	2.89	1.41	
16	0.66	8.59	21.46	3.47	5.93	2989.19	286.26	141.96	19.27	6.43	2.70	1.41	
17	0.76	6.95	18.22	3.27	9.74	3228.47	242.65	141.96	17.18	6.19	2.70	1.41	
18	1.00	5.93	22.77	3.67	43.65	3140.65	194.03	342.15	15.18	5.69	2.89	1.26	
19	1.55	4.98	33.23	3.27	993.61	1462.88	163.98	225.98	14.22	5.69	3.47	1.13	
20	1.70	4.98	21.46	3.08	8289.78	1297.03	155.58	134.02	12.36	5.45	2.89	1.00	
21	1.26	4.10	17.70	2.89	6527.35	3633.05	147.35	134.02	11.28	5.45	2.70	1.00	
22	1.55	2.89	16.67	3.67	2305.08	7298.17	268.48	113.71	10.97	5.45	2.70	0.88	
23	1.41	2.70	16.17	3.27	754.74	3783.32	277.32	131.41	10.65	4.98	3.08	0.76	
24	1.13	3.47	11.91	3.08	601.70	2061.83	242.65	85.70	10.05	4.98	3.08	0.66	
25	1.41	3.27	9.74	3.27	15608.18	1649.88	225.98	83.82	9.74	4.76	2.89	0.66	
26	2.01	3.27	8.59	4.98	22658.49	1359.91	178.35	64.75	9.46	4.76	2.89	0.66	
27	1.86	3.27	8.30	6.19	16728.52	3140.65	152.82	67.60	9.16	4.53	2.70	0.66	
28	3.27	3.47	11.28	4.98	3862.03	10318.23	144.65	51.19	8.87	4.53	2.52	0.66	
29	4.53	3.47	7.75	5.21	1649.88	9869.80	131.41	51.19	8.87	4.30	2.35	0.66	
30	4.53	3.08	6.43	5.69	973.58	6232.84	87.92	48.63	8.87	4.30		0.66	
31		2.01		5.69	565.62		83.82		8.59	4.10		0.55	
TOTAL	46.85	170.23	388.67	141.12	81656.05	71443.66	21289.65	4026.13	633.41	190.94	92.99	40.83	180120.52 TON
MEAN	1.56	5.49	12.96	4.55	2634.07	2381.46	686.76	134.20	20.43	6.16	3.21	1.32	
MAX	4.53	14.70	33.23	6.69	22658.49	10318.23	2613.01	440.57	44.88	8.59	4.30	2.18	22658.49
MIN	0.55	2.01	1.86	2.89	3.27	131.41	83.82	48.63	8.59	4.10	2.35	0.55	0.55

WATER YEAR 1987

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 — 9,410 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D- 49

PERIOD OF AVAILABLE RECORDS — 1984 TO DATE

ACTUAL MEASUREMENT — 1978 TO DATE

REMARKS — CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN NGAO SAK, SONG, PHRAE, (Y.20)
STREAM - YOM
RIVER - YOM
RIVER SYSTEM - YOM RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 070988

QS = 0.1416 QW^2.04123

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.3	5.7	1.1	3.3	12.6	167.3	1667.0	77.9	72.2	8.9	3.6	1.6	
2	0.2	6.5	2.3	3.3	8.9	129.2	3211.9	72.2	67.4	8.2	3.6	1.4	
3	0.2	6.1	10.1	3.6	8.2	106.9	2704.3	113.8	62.1	8.2	3.6	1.4	
4	0.2	7.5	95.4	3.3	7.1	106.9	2087.5	196.2	60.2	7.5	3.3	1.2	
5	0.2	38.1	60.2	3.1	8.9	92.2	1167.6	292.8	55.3	7.5	3.1	1.2	
6	0.2	49.4	25.4	2.8	8.9	181.4	760.6	163.0	55.3	7.1	3.1	1.1	
7	0.2	31.4	20.3	3.6	25.4	230.0	457.7	117.4	53.5	7.1	2.8	1.1	
8	0.1	18.6	19.6	3.9	36.1	343.1	1715.6	817.1	51.7	6.5	2.8	0.9	
9	0.1	16.5	104.4	3.9	53.5	746.8	12448.7	2779.8	47.1	6.5	2.5	0.9	
10	0.1	9.6	846.1	3.3	292.8	2629.8	7177.0	719.6	43.3	6.5	2.5	0.9	
11	0.1	6.1	438.3	3.6	733.1	1667.0	2265.2	368.2	39.6	6.1	2.5	0.8	
12	0.1	4.9	145.6	3.3	475.8	1187.8	1133.3	259.8	41.7	6.1	2.3	0.9	
13	0.1	3.6	57.7	3.3	223.7	4040.7	708.4	206.7	41.7	6.1	2.3	0.9	
14	0.1	5.3	41.7	3.3	104.4	6483.5	505.3	190.4	43.3	5.7	2.3	0.9	
15	0.1	3.3	21.5	3.3	60.2	13923.4	394.2	1595.4	36.1	5.3	2.3	0.9	
16	0.1	3.1	14.9	3.1	241.4	15193.5	376.2	668.9	25.4	5.3	2.0	0.8	
17	0.1	2.8	14.0	2.8	537.7	3634.7	376.2	320.4	17.5	5.3	2.0	0.8	
18	0.2	2.3	13.1	2.8	79990.7	2739.7	394.2	241.4	16.5	4.9	2.0	0.8	
19	0.2	3.1	9.6	2.5	32323.1	2815.8	585.2	212.7	14.9	4.9	2.8	0.8	
20	0.1	3.3	9.6	3.1	3901.2	5812.9	528.1	217.6	14.0	4.9	4.6	0.7	
21	6.5	3.1	10.1	4.9	920.9	4344.2	645.3	190.4	13.1	4.6	3.9	0.7	
22	4.6	2.3	14.9	7.5	475.8	2118.6	632.6	154.7	13.1	4.6	3.6	0.6	
23	3.3	2.0	11.7	3.3	63128.5	967.3	343.1	129.2	12.6	4.6	3.1	0.6	
24	2.0	1.6	5.3	3.3	121862.8	484.9	307.2	117.4	11.7	4.6	2.5	0.5	
25	1.2	1.2	4.3	7.5	54863.1	402.5	496.0	104.4	11.7	4.3	2.3	0.5	
26	0.8	1.1	3.6	26.6	11953.9	11112.6	438.3	101.1	10.9	4.3	2.0	0.4	
27	0.8	0.8	13.1	101.1	3211.9	27328.1	266.5	92.2	10.1	4.1	1.8	0.4	
28	0.9	0.8	14.9	67.4	1240.6	22434.1	196.2	89.1	10.1	3.9	1.8	0.4	
29	1.4	1.1	5.7	34.7	645.3	6143.6	149.6	83.0	9.6	3.9	1.6	0.4	
30	4.3	1.2	4.3	21.5	376.2	2297.6	121.9	77.9	9.6	3.6		0.4	
31		0.8		16.5	230.0		92.2		9.6	3.6		0.3	
TOTAL	28.8	243.2	2038.8	359.5	377962.7	139866.1	44353.1	10770.7	980.9	174.7	78.6	25.2	576882.3 TON
MEAN	1.0	7.8	68.0	11.6	12192.3	4662.2	1430.7	359.0	31.6	5.6	2.7	0.8	
MAX	6.5	49.4	846.1	101.1	121862.8	27328.1	12448.7	2779.8	72.2	8.9	4.6	1.6	121862.8
MIN	0.1	0.8	1.1	2.5	7.1	92.2	92.2	72.2	9.6	3.6	1.6	0.3	0.1

WATER YEAR 1987

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.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D- 49

PERIOD OF AVAILABLE RECORDS 1980 TO DATE

ACTUAL MEASUREMENT 1980 TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1982 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - NAN, MUANG, NAN, (N.1)
STREAM - NAN
RIVER - NAN
RIVER SYSTEM - NAN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 070988
2.12603
QS = 0.0404 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.7	10.9	3.9	68.8	197.0	559.2	461.0	102.9	57.2	18.7	7.8	5.3	
2	1.7	8.4	4.2	46.7	1063.3	501.9	363.2	102.9	57.2	16.9	7.8	4.8	
3	1.7	5.3	10.9	27.6	807.0	1392.8	435.4	117.6	57.2	16.9	7.3	4.5	
4	1.5	3.6	110.4	20.8	474.4	1648.8	386.5	168.1	57.2	16.1	7.3	4.5	
5	1.5	4.5	78.9	16.9	318.8	1365.8	410.6	222.9	52.9	16.1	6.7	4.2	
6	1.5	15.3	38.4	16.1	228.3	1159.7	461.0	212.3	52.9	16.1	6.7	3.9	
7	1.5	18.7	21.8	14.5	212.3	768.4	318.8	207.2	46.7	16.1	6.2	5.3	
8	1.5	13.7	16.1	27.6	192.0	1312.6	667.5	228.3	44.8	15.3	6.2	4.8	
9	1.5	8.4	32.8	36.9	202.1	1420.2	1063.3	1927.6	44.8	15.3	5.7	5.3	
10	1.7	5.7	78.9	50.8	826.6	1475.6	1110.9	300.2	42.9	15.3	5.3	6.2	
11	1.7	4.5	84.2	35.5	544.6	993.9	826.6	193.9	42.9	14.5	5.3	5.7	
12	1.5	4.2	41.3	28.9	386.5	846.5	501.9	154.9	39.8	13.7	5.7	4.8	
13	1.5	3.6	26.4	25.2	239.3	787.6	340.6	130.0	38.4	13.7	5.7	4.5	
14	1.5	3.6	25.2	21.8	197.0	993.9	228.3	123.2	35.5	13.7	5.7	4.2	
15	1.3	3.9	22.9	18.7	177.5	751.1	297.8	133.4	35.5	13.0	5.3	4.2	
16	1.3	6.7	21.8	18.7	159.0	993.9	559.2	120.0	34.1	12.2	4.8	3.9	
17	1.5	4.2	24.1	18.7	187.1	717.0	258.0	110.4	34.1	12.2	5.3	3.9	
18	4.8	3.9	26.4	50.8	574.1	604.4	217.6	101.2	31.4	12.2	4.5	3.6	
19	2.3	3.6	34.1	46.7	2785.1	559.2	202.1	95.4	30.1	10.9	5.3	3.3	
20	2.1	4.2	25.2	36.9	2904.1	530.1	187.1	92.5	28.9	10.9	7.3	3.3	
21	1.9	3.6	18.7	35.5	1286.4	700.3	197.0	86.9	27.6	10.9	7.3	3.9	
22	2.8	3.0	16.1	35.5	807.0	751.1	217.6	81.5	26.4	10.9	9.0	3.6	
23	3.9	2.8	15.3	25.2	8499.1	515.9	197.0	76.3	26.4	10.9	7.3	3.3	
24	4.5	2.3	13.7	22.9	84089.6	340.6	202.1	73.7	25.2	10.2	6.7	3.0	
25	3.3	2.1	11.5	125.4	39988.5	233.8	340.6	71.2	25.2	9.6	6.2	3.0	
26	2.1	2.1	10.2	846.5	8318.9	1016.7	233.8	68.8	24.1	9.6	5.7	3.0	
27	1.7	2.3	10.2	559.2	3368.1	2668.8	202.1	68.8	24.1	9.0	5.7	3.0	
28	1.5	1.9	10.2	228.3	1960.0	1135.1	168.1	66.4	21.8	8.4	5.7	2.8	
29	1.9	1.9	9.6	150.2	1286.4	635.5	133.4	64.0	20.8	8.4	5.7	2.8	
30	4.2	3.0	241.0	102.9	866.7	544.6	125.4	59.4	20.8	7.8		2.8	
31		6.7		87.2	635.5		125.4		19.7	8.4		2.8	
TOTAL	63.1	168.6	1084.4	2847.4	163782.3	27925.0	11439.9	5561.9	1126.6	393.9	181.2	124.2	214698.5 TON
MEAN	2.1	5.4	36.1	91.9	5283.3	930.8	369.0	185.4	36.3	12.7	6.2	4.0	
MAX	4.8	18.7	241.0	846.5	84089.6	2668.8	1110.9	1927.6	57.2	18.7	9.0	6.2	84089.6
MIN	1.3	1.9	3.9	14.5	159.0	233.8	125.4	59.4	19.7	7.8	4.5	2.8	1.3

WATER YEAR 1987

WAN RIVER BASIN

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

LOCATION	LAT. 16°-49'-15" N., LONG. 100°-15'-49" E., ON LEFT BANK NEAR THE POST OFFICE AND ABOUT 1 KILOMETER UPSTREAM FROM GAGING STATION N.5, AMPHOE MUANG, PHITSANULOK.
DRAINAGE AREA	35,286 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING
INSTRUMENT USED	U.S.D- 49
PERIOD OF AVAILABLE RECORDS	1951-1956,1983 TO DATE
ACTUAL MEASUREMENT	1950-1951,1983 TO DATE
REMARKS	CONTINUED SEDIMENT STATION
	USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - PHITSANULOK, MUANG, PHITSANULOK, (N.5A)
STREAM - NAN
RIVER - NAN
RIVER SYSTEM - NAN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 281188

QS = 0.0091 QW$^{2.26528}$

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1616.0	2309.2	817.9	638.0	434.7	648.5	2163.6	30.0	141.6	259.7	206.1	1853.8	
2	2260.1	1853.8	412.2	724.8	384.0	254.6	1546.4	40.6	151.7	109.9	210.0	3031.9	
3	1581.0	1135.5	586.8	596.8	465.7	141.6	1092.6	151.7	254.6	46.7	397.6	4379.4	
4	617.2	1092.6	1651.4	539.9	250.3	98.5	1106.8	131.8	397.6	70.5	770.6	5061.1	
5	539.9	1581.0	2974.6	724.8	193.5	75.2	1135.5	302.0	473.7	31.2	770.6	4853.7	
6	1671.0	2644.0	1348.0	627.5	357.7	104.1	1106.8	419.6	481.7	25.6	1194.2	4811.5	
7	1751.0	2806.6	891.9	106.8	291.1	115.9	1050.7	269.3	489.8	36.2	891.9	4651.2	
8	1690.8	3311.3	805.9	134.9	241.0	269.3	1269.8	227.3	627.5	70.5	917.4	3031.9	
9	1710.7	3409.3	659.1	285.0	357.7	2385.0	1254.4	291.1	434.7	101.1	384.0	2833.0	
10	1495.4	2945.0	607.0	548.5	364.6	2945.0	1036.9	177.7	586.8	45.0	617.2	770.6	
11	1833.0	2385.0	904.6	427.1	155.5	19001.3	1269.8	158.8	412.2	82.7	904.6	236.2	
12	1812.3	1150.0	1009.6	412.2	241.0	9949.0	1348.0	332.5	377.8	82.7	1300.7	166.2	
13	1938.5	1064.6	794.1	351.7	397.6	7617.2	1050.7	481.7	308.3	20.7	2186.5	185.5	
14	1651.4	1895.9	1598.4	539.9	291.1	5906.6	782.3	489.8	320.2	145.2	1598.4	138.4	
15	1092.6	2047.3	1078.5	724.8	522.9	4113.8	607.0	539.9	291.1	141.6	1396.2	58.3	
16	1671.0	1751.0	576.8	713.6	1380.0	2616.3	617.2	506.2	241.0	106.8	576.8	98.5	
17	1981.6	1285.2	680.6	969.5	1671.0	1412.4	617.2	285.0	269.3	80.0	691.5	134.9	
18	1651.4	1412.4	659.1	879.3	1651.4	638.0	384.0	148.4	210.0	66.0	489.8	109.9	
19	1529.3	879.3	830.0	539.9	4379.4	364.6	231.4	357.7	181.9	62.0	254.6	125.4	
20	1285.2	576.8	1348.0	404.9	7930.4	320.2	177.7	531.4	148.4	11.6	659.1	115.9	
21	1598.4	891.9	1285.2	308.3	4731.0	596.8	181.9	648.5	141.6	104.1	917.4	90.6	
22	2460.1	969.5	638.0	419.6	1960.0	1853.8	231.4	627.5	166.2	236.2	713.6	48.4	
23	2777.9	842.2	231.4	197.8	1512.3	4004.8	308.3	586.8	125.4	320.2	596.8	30.0	
24	2591.0	982.8	210.0	106.8	1690.8	3615.7	296.5	313.9	109.9	201.7	1917.1	85.4	
25	2186.5	1598.4	879.3	326.0	12800.4	4456.6	259.7	170.1	210.0	339.1	3089.7	112.7	
26	2211.5	1563.6	586.8	596.8	39286.8	3789.1	231.4	141.6	206.1	170.1	4113.8	115.9	
27	2285.6	1751.0	357.7	680.6	33003.5	2236.8	173.7	131.8	125.4	332.5	4978.2	85.4	
28	2309.2	2644.0	357.7	397.6	19001.3	2644.0	85.4	181.9	106.8	669.8	5017.9	93.1	
29	1812.3	2484.6	193.5	506.2	9040.7	3932.2	56.7	131.8	145.2	669.8	3311.3	30.0	
30	1895.9	2236.8	332.5	473.7	3511.7	2433.4	43.6	131.8	106.8	596.8		18.9	
31		1598.4		497.9	1616.0		36.2		141.6	2.1		49.9	
TOTAL	53507.8	55099.0	25306.6	15401.2	150115.1	88540.3	21753.6	8938.2	8384.9	5238.1	41073.6	37407.6	510766.0 TON
MEAN	1783.6	1777.4	843.6	496.8	4842.4	2951.3	701.7	297.9	270.5	169.0	1416.3	1206.7	
MAX	2777.9	3409.3	2974.6	969.5	39286.8	19001.3	2163.6	648.5	627.5	669.8	5017.9	5061.1	39286.8
MIN	539.9	576.8	193.5	106.8	155.5	75.2	36.2	30.0	106.8	2.1	206.1	18.9	2.1

WATER YEAR 1987

WAN RIVER BASIN

WAM 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 WAM PAT, UTTARADIT.

DRAINAGE AREA — 2,463 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D- 49

PERIOD OF AVAILABLE RECORDS — 1967 TO DATE

ACTUAL MEASUREMENT — 1971 TO DATE

REMARKS — CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN WANG BANG, NAM PAT, UTTARADIT, (N.33)
STREAM - NAM PAT
RIVER - NAN
RIVER SYSTEM - NAN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 291188
1.85653
QS = 1.6558 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.1	7.4	11.8	14.7	4.3	152.5	778.3	43.3	19.2	5.1	1.3	0.7	
2	0.7	5.6	23.4	13.7	4.3	272.0	804.8	55.0	17.9	4.7	1.1	0.6	
3	1.1	3.6	20.5	10.9	4.7	220.5	1141.5	103.4	16.8	4.3	1.1	0.6	
4	0.6	2.9	89.9	10.0	6.0	145.9	752.3	68.0	16.8	4.3	1.3	0.4	
5	0.4	6.4	859.0	9.2	11.8	109.0	886.7	68.0	15.7	4.3	1.1	0.4	
6	0.9	12.7	348.2	8.4	7.9	558.6	390.3	64.7	14.7	4.3	0.9	0.4	
7	1.1	11.8	145.9	8.4	6.4	1546.1	361.7	61.4	13.7	4.3	0.9	0.4	
8	0.9	7.9	75.0	8.4	5.6	4317.3	248.6	52.0	13.7	3.6	0.7	0.4	
9	0.7	6.0	212.3	7.9	4.7	5836.2	321.8	43.3	13.7	3.3	0.7	0.6	
10	0.6	4.3	450.3	7.4	5.6	2361.5	558.6	37.9	13.7	3.3	0.6	0.6	
11	0.4	3.6	159.3	6.9	35.3	16666.9	1141.5	35.3	12.7	3.3	0.6	0.3	
12	0.2	3.3	109.0	6.4	97.9	4317.3	321.8	32.9	11.8	2.9	0.6	0.3	
13	0.1	2.9	248.6	6.0	701.4	1179.4	237.2	31.2	10.9	2.9	0.6	0.3	
14	0.1	7.4	188.7	5.6	296.4	726.6	212.3	29.5	10.9	3.3	0.6	0.2	
15	0.1	9.2	133.1	5.1	152.5	558.6	390.3	31.2	10.0	2.9	0.6	0.3	
16	0.1	29.5	126.8	4.7	272.0	284.1	237.2	31.2	10.0	2.6	0.6	0.3	
17	0.0	15.7	1217.9	4.3	5717.0	228.8	212.3	32.9	8.4	2.6	0.4	0.3	
18	0.0	9.2	1589.6	4.3	24503.9	166.4	139.4	40.6	8.4	2.6	0.4	0.2	
19	0.0	6.4	676.5	4.0	4617.3	726.6	109.0	35.3	8.4	2.0	0.6	0.2	
20	0.0	7.4	139.4	3.6	1141.5	1678.4	309.0	32.9	8.4	2.0	0.7	0.2	
21	0.1	9.2	93.9	3.3	361.7	2043.3	778.3	37.9	7.9	1.8	2.6	0.3	
22	6.0	19.2	212.3	3.3	166.4	4617.3	321.8	35.3	6.9	1.8	2.9	0.2	
23	26.4	17.9	4317.3	3.6	11112.2	4317.3	220.5	31.2	6.4	1.8	2.6	0.2	
24	10.0	10.0	361.7	11.8	244603.2	1336.7	188.7	29.5	6.0	1.8	2.3	0.2	
25	7.4	7.4	93.9	14.7	29660.0	536.2	120.8	26.4	6.0	2.0	2.0	0.3	
26	5.1	7.9	52.0	14.7	6575.4	1815.7	109.0	24.8	6.0	1.8	1.5	0.2	
27	4.0	7.9	32.9	7.9	2168.0	5366.1	89.9	23.4	7.4	1.8	0.9	0.2	
28	4.0	5.1	23.4	7.4	972.2	1633.7	75.0	23.4	6.9	1.3	0.9	0.1	
29	3.6	5.6	20.5	6.4	481.8	5137.9	64.7	21.9	6.0	1.3	0.9	0.1	
30	2.9	7.4	16.8	5.1	296.4	1503.1	55.0	19.2	6.0	1.3		0.0	
31		8.4		4.3	204.3		49.0		5.6	1.3		0.0	
TOTAL	77.6	269.2	12049.9	232.4	334198.1	70360.0	11627.3	1203.0	326.9	86.6	32.0	9.5	430472.5 TON
MEAN	2.6	8.7	401.7	7.5	10780.6	2345.3	375.1	40.1	10.5	2.8	1.1	0.3	
MAX	26.4	29.5	4317.3	14.7	244603.2	16666.9	1141.5	103.4	19.2	5.1	2.9	0.7	244603.2
MIN	0.0	2.9	11.8	3.3	4.3	109.0	49.0	19.2	5.6	1.3	0.4	0.0	0.0

WATER YEAR 1987

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.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.P- 61

PERIOD OF AVAILABLE RECORDS 1960 TO DATE

ACTUAL MEASUREMENT 1965-1966,1972-1980

REMARKS DISCONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - NAKHON SAWAN, MUANG, NAKHON SAWAN, (C.2)
STREAM - CHAO PHRAYA
RIVER - CHAO PHRAYA
RIVER SYSTEM - CHAO PHRAYA RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 190988
4.53569
QS = 0.0000 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	37.1	29.5	26.7	1.5	12.7	301.7	4894.0	636.0	145.1	0.9	2.0	34.7	
2	35.4	30.1	20.5	1.2	13.9	188.1	4334.2	498.3	156.3	0.7	1.8	35.4	
3	49.4	30.1	11.3	1.1	21.8	107.8	4154.6	344.4	121.8	0.8	1.1	30.1	
4	66.3	23.9	5.3	1.7	23.5	65.2	3994.1	286.2	105.4	0.8	0.7	27.6	
5	77.2	17.8	4.9	1.8	20.1	35.4	3994.1	254.0	105.4	0.8	0.6	31.0	
6	69.6	17.3	17.3	1.7	19.4	31.6	4209.3	268.1	105.4	0.4	1.2	41.4	
7	52.5	21.4	40.6	1.8	17.3	53.8	4505.3	307.1	107.8	0.3	1.6	45.2	
8	36.4	28.1	56.2	2.0	17.3	65.2	4756.6	321.6	114.2	0.2	2.2	46.0	
9	41.4	34.7	56.2	1.2	19.4	62.6	5374.5	296.5	121.8	0.1	2.6	42.5	
10	49.4	53.8	41.4	1.5	18.6	99.4	6200.3	249.4	119.3	0.2	2.6	34.7	
11	42.5	76.0	41.4	3.6	14.3	380.9	7267.8	233.2	107.8	0.3	1.7	62.6	
12	47.3	62.6	33.1	5.4	14.3	921.0	8712.8	195.5	105.4	0.3	1.2	77.2	
13	45.2	47.3	25.7	6.4	16.2	1120.7	8497.1	217.7	97.2	0.3	1.6	61.1	
14	42.5	34.7	25.7	6.3	18.6	950.7	7763.7	258.6	74.2	0.3	2.4	47.3	
15	47.3	25.7	20.1	8.0	14.3	963.7	6797.0	338.6	49.4	0.2	7.7	37.8	
16	39.5	25.7	14.6	6.8	19.0	1021.6	6035.0	387.3	34.7	0.3	10.2	22.5	
17	37.1	22.5	10.8	8.0	29.5	1101.2	5292.0	362.3	27.6	0.4	6.4	23.5	
18	39.5	17.8	6.6	8.8	50.7	1206.3	4622.2	281.2	23.0	0.5	3.0	27.6	
19	37.8	14.3	5.4	10.8	49.4	1170.4	3941.7	224.6	19.0	0.5	1.6	33.8	
20	44.0	13.0	6.1	11.6	56.2	1280.5	3206.5	254.0	14.6	0.5	1.5	36.4	
21	53.8	11.3	7.5	10.2	71.3	1825.5	2668.3	307.1	10.2	0.4	1.0	34.7	
22	53.8	9.5	12.1	7.7	72.4	3434.6	2313.2	506.2	6.6	0.2	0.9	37.1	
23	65.2	7.2	13.9	6.6	55.2	4756.6	2026.8	498.3	5.0	0.2	1.5	21.8	
24	88.1	6.1	8.6	10.5	44.0	5732.1	1825.5	436.5	3.9	0.4	1.8	24.4	
25	79.0	5.3	4.1	14.6	35.4	5508.6	1640.1	344.4	3.2	0.7	1.4	25.7	
26	69.6	4.9	2.2	9.3	41.4	5374.5	1475.8	233.2	2.5	0.8	3.1	26.2	
27	60.0	6.6	2.5	7.2	188.1	5374.5	1302.4	184.5	2.1	0.8	10.8	27.6	
28	47.3	7.7	2.8	8.6	506.2	5441.2	1135.4	156.3	2.3	0.8	20.1	28.9	
29	37.8	16.5	2.2	9.0	626.6	5732.1	976.8	142.1	2.5	0.6	27.6	28.9	
30	31.6	21.4	1.8	10.5	533.1	5441.2	839.9	137.3	1.8	1.1		17.8	
31		25.2		12.4	400.2		711.6		1.2	1.7		21.8	
TOTAL	1523.6	748.0	527.6	197.8	3040.4	59748.7	125468.6	9160.5	1796.7	16.5	121.9	1093.3	203443.6 100TON
MEAN	50.8	24.1	17.6	6.4	98.1	1991.6	4047.4	305.4	58.0	0.5	4.2	35.3	
MAX	88.1	76.0	56.2	14.6	626.6	5732.1	8712.8	636.0	156.3	1.7	27.6	77.2	8712.8
MIN	31.6	4.9	1.8	1.1	12.7	31.6	711.6	137.3	1.2	0.1	0.6	17.8	0.1

WATER YEAR 1987

PASAK RIVER BASIN

PASAK RIVER AT BAN MUANG NUA, SARABURI (S.9)

LOCATION	LAT. 14°-37'-33" N., LONG. 101°-01'-00" E., ON LEFT BANK AT BAN MUANG NUA RAILWAY BRIDGE, AMPHOE KAENG KHOI, SARABURI.
DRAINAGE AREA	14,374 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING
INSTRUMENT USED	US.D- 49
PERIOD OF AVAILABLE RECORDS	1975 TO DATE
ACTUAL MEASUREMENT	1975 TO DATE
REMARKS	CONTINUED SEDIMENT STATION USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN MUANG NUA, KAENG KHOI, SARABURI, (S.9)
STREAM - PASAK
RIVER - PASAK
RIVER SYSTEM - PASAK RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 111188
1.41999
QS = 1.9248 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.0	22.2	31.8	98.7	309.6	465.4	25447.5	2641.5	436.6	116.6	50.6	34.3	
2	10.0	31.8	65.6	109.3	259.4	534.8	24007.4	1958.0	417.7	113.0	47.8	31.8	
3	9.2	22.2	59.5	95.2	214.0	590.4	22348.2	1587.9	380.6	105.8	47.8	26.9	
4	9.2	17.9	71.9	389.8	147.1	626.4	20558.7	1325.9	354.8	102.2	47.8	26.9	
5	9.2	22.2	68.7	317.0	85.0	687.8	18438.8	983.7	324.5	98.7	45.0	26.9	
6	9.2	39.5	102.2	116.6	56.5	861.6	16699.4	750.8	302.3	95.2	47.8	29.3	
7	8.3	26.9	205.3	68.7	45.0	3948.3	15163.2	566.8	287.8	95.2	47.8	45.0	
8	8.3	17.9	188.1	71.9	36.9	6880.1	13720.7	475.2	266.4	98.7	45.0	42.2	
9	8.3	15.8	116.6	102.2	31.8	8234.9	12991.6	417.7	252.4	95.2	45.0	42.2	
10	7.5	53.5	81.6	183.9	24.5	9506.7	14262.8	380.6	245.5	91.7	42.2	36.9	
11	7.5	65.6	209.6	175.5	17.9	11244.6	13233.3	362.5	238.6	85.0	53.5	29.3	
12	7.5	53.5	302.3	135.5	13.8	11849.9	12799.1	339.5	231.8	81.6	50.6	26.9	
13	7.5	53.5	171.4	102.2	15.8	13281.8	13427.7	339.5	214.0	75.1	50.6	26.9	
14	7.5	42.2	105.8	225.1	13.8	13622.8	12943.4	354.8	209.6	71.9	53.5	24.5	
15	7.5	50.6	65.6	155.1	15.8	13671.7	12038.0	408.3	205.3	71.9	53.5	20.0	
16	5.9	98.7	75.1	75.1	22.2	13769.7	10694.2	455.8	196.6	68.7	53.5	20.0	
17	6.7	50.6	98.7	68.7	39.5	13671.7	9751.1	725.4	183.9	65.6	53.5	20.0	
18	6.7	31.8	68.7	45.0	56.5	15466.9	8864.1	846.7	179.7	65.6	59.5	17.9	
19	6.7	24.5	50.6	39.5	120.3	21168.8	8306.3	802.4	171.4	65.6	53.5	17.9	
20	10.9	45.0	68.7	39.5	135.5	21728.1	7986.5	952.8	167.2	59.5	47.8	17.9	
21	8.3	39.5	102.2	34.3	88.3	21280.3	7635.5	817.1	163.2	59.5	45.0	17.9	
22	8.3	24.5	127.8	31.8	75.1	22688.5	7323.7	738.1	159.1	59.5	42.2	15.8	
23	9.2	26.9	209.6	31.8	68.7	28377.3	6644.7	725.4	155.1	56.5	39.5	15.8	
24	22.2	15.8	159.1	26.9	53.5	32951.5	6345.6	663.0	151.1	56.5	36.9	15.8	
25	15.8	15.8	102.2	24.5	218.4	34376.9	5920.8	638.6	151.1	53.5	34.3	13.8	
26	22.2	12.8	85.0	20.0	171.4	34808.0	5600.1	638.6	151.1	53.5	31.8	12.8	
27	24.5	10.9	139.3	13.8	102.2	34307.6	5253.5	602.4	143.2	50.6	39.5	12.8	
28	22.2	10.9	81.6	12.8	147.1	32600.4	4821.9	566.8	139.3	50.6	47.8	12.8	
29	13.8	10.0	71.9	12.8	252.4	30017.2	4211.6	524.7	135.5	56.5	45.0	12.8	
30	13.8	11.9	85.0	15.8	317.0	27567.7	3562.9	484.9	135.5	50.6		12.8	
31		34.3		120.3	362.5		2899.8		131.6	50.6		11.9	
TOTAL	323.9	999.2	3371.5	2959.3	3517.5	480787.8	353902.1	23075.4	6882.5	2320.7	1358.3	718.7	880216.9 TON
MEAN	10.8	32.2	112.4	95.5	113.5	16026.3	11416.2	769.2	222.0	74.9	46.8	23.2	
MAX	24.5	98.7	302.3	389.8	362.5	34808.0	25447.5	2641.5	436.6	116.6	59.5	45.0	34808.0
MIN	5.9	10.0	31.8	12.8	13.8	465.4	2899.8	339.5	131.6	50.6	31.8	11.9	5.9

WATER YEAR 1987

PASAK RIVER BASIN

HUAI NAM CHUN AT BAN FAI WANG BON, PHETCHABUN (S.17)

LOCATION LAT. 16°-45'-43" N., LONG. 101°-08'-44" E., ON LEFT BANK NEAR THE BRIDGE OF PHITSANULOK-LOMSAK ROAD, BAN FAI WANG BON, AMPHOE LOM SAK, PHETCHABUN.

DRAINAGE AREA 67 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.DH - 59

PERIOD OF AVAILABLE RECORDS 1986 - 1987

ACTUAL MEASUREMENT 1986 - 1987

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER LQS/LQS02D/12

STATION - BAN FAI WANG BON, LOM SAK, PHETCHABUN, (S.17)
STREAM - HUAI NAM CHUN
RIVER - NAM PHUNG
RIVER SYSTEM - PASAK RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 61288
1.40125
QS = 67.5541 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.87	7.74	2.31	2.31	2.31	23.10	77.30	42.38	23.10	4.08	4.08	2.87	
2	3.46	3.46	3.46	2.31	2.31	23.10	147.15	42.38	23.10	4.08	3.46	2.87	
3	2.87	2.87	47.69	1.79	2.87	18.84	739.35	37.26	14.84	4.08	4.08	2.31	
4	2.31	4.08	2.87	11.12	1.31	14.84	249.69	37.26	14.84	4.08	3.46	2.87	
5	2.31	11.12	3.46	2.87	2.31	11.12	226.21	37.26	14.84	4.08	4.08	11.12	
6	2.31	3.46	2.87	2.31	2.31	11.12	159.97	32.33	14.84	3.46	4.08	4.08	
7	2.31	3.46	2.87	2.31	2.31	47.69	134.65	32.33	11.12	4.08	3.46	3.46	
8	2.31	2.87	11.12	2.31	2.31	4353.82	159.97	32.33	11.12	4.08	2.87	2.87	
9	2.31	2.87	4.73	2.31	3.46	323.94	694.30	32.33	11.12	4.08	3.46	2.31	
10	2.31	3.46	3.46	2.31	2.87	159.97	298.58	32.33	11.12	3.46	3.46	1.79	
11	1.79	47.69	2.31	2.31	2.31	226.21	226.21	27.61	11.12	3.46	3.46	2.31	
12	1.79	2.87	2.31	2.31	18.84	522.57	181.31	27.61	11.12	3.46	4.08	2.31	
13	1.79	3.46	1.79	2.31	4.08	403.44	134.65	32.33	11.12	3.46	3.46	2.31	
14	2.31	27.61	1.79	1.79	3.46	134.65	122.48	42.38	7.74	3.46	4.08	2.31	
15	2.31	4.08	3.46	1.79	2.87	66.99	122.48	32.33	7.74	3.46	4.08	2.31	
16	2.87	3.46	2.87	1.79	4.73	57.11	110.64	27.61	11.12	3.46	4.73	1.79	
17	2.31	2.31	2.87	1.79	1162.76	47.69	99.15	27.61	7.74	3.46	4.08	1.79	
18	2.87	1.79	2.31	1.79	349.88	66.99	99.15	32.33	7.74	3.46	3.46	1.31	
19	88.03	4.08	11.12	1.79	99.15	249.69	99.15	32.33	7.74	3.46	4.73	1.79	
20	4.73	18.84	2.87	1.79	66.99	122.48	77.30	32.33	7.74	3.46	7.74	2.31	
21	2.87	1.79	4.08	1.79	134.65	147.15	159.97	27.61	7.74	3.46	4.08	2.87	
22	3.46	2.31	2.87	1.31	47.69	110.64	99.15	27.61	11.12	3.46	2.87	2.31	
23	2.87	1.79	2.31	1.31	4526.41	99.15	77.30	27.61	4.73	3.46	2.87	2.87	
24	3.46	99.15	1.79	1.31	564.19	77.30	66.99	27.61	4.73	3.46	2.87	2.87	
25	57.11	7.74	1.79	1.79	159.97	159.97	57.11	27.61	4.73	3.46	2.87	3.46	
26	2.87	4.08	1.79	1.79	134.65	122.48	47.69	23.10	4.73	3.46	2.87	3.46	
27	2.87	2.87	1.79	2.31	77.30	249.69	42.38	23.10	7.74	3.46	2.87	2.31	
28	2.87	2.31	3.46	1.31	47.69	88.03	42.38	23.10	4.08	3.46	2.31	2.31	
29	2.87	1.79	7.74	2.31	42.38	88.03	42.38	23.10	4.08	4.73	2.31	2.31	
30	2.87	3.46	4.73	1.31	32.33	88.03	42.38	23.10	4.73	7.74		1.79	
31		2.31		2.87	27.61		37.26		4.08	4.08		2.31	
TOTAL	220.29	291.18	150.89	70.82	7534.31	8115.83	4874.68	926.21	303.45	118.39	106.31	85.96	22798.32 TON
MEAN	7.34	9.39	5.03	2.28	243.04	270.53	157.25	30.87	9.79	3.82	3.67	2.77	
MAX	88.03	99.15	47.69	11.12	4526.41	4353.82	739.35	42.38	23.10	7.74	7.74	11.12	4526.41
MIN	1.79	1.79	1.79	1.31	1.31	11.12	37.26	23.10	4.08	3.46	2.31	1.31	1.31

WATER YEAR 1987

KHONG RIVER BASIN

HUAI BANG I AT BAN NON YANG, MUK DAHAN (KH.79)

LOCATION LAT.16°-28'-49" N., LONG. 104°-20'-08" E., ON RIGHT BANK. AT THE BRIDGE ON HIGHWAY, BAN NON YANG, AMPHOE KHAM CHA I, MUK DAHAN.

DRAINAGE AREA 110 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED U.S.D - 49

PERIOD OF AVAILABLE RECORDS 1986 TO DATE

ACTUAL MEASUREMENT 1986 TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1986 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN NONG YANG, KHAM CHA I, MUK DAHAN, (KH.79)
STREAM - HUAI BANG I
RIVER - KHONG
RIVER SYSTEM - KHONG RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 080988
1.39194
QS = 5.8364 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.34	1.92	144.91	1.35	9.51	7.35	0.62	0.24	0.04	0.01	0.01	
2	0.34	0.27	8.05	13.84	6.66	85.86	6.66	0.62	0.24	0.04	0.01	0.03	
3	0.27	0.27	10.26	3.55	0.85	61.67	8.05	1.35	0.24	0.04	0.01	0.03	
4	0.27	0.58	6.00	21.01	2.54	96.42	24.95	0.85	0.24	0.04	0.01	0.04	
5	0.27	1.35	2.22	44.02	9.51	66.13	18.72	0.62	0.24	0.03	0.01	0.04	
6	0.27	0.58	5.35	220.78	0.62	33.38	18.72	0.62	0.17	0.03	0.01	0.04	
7	0.27	0.50	5.35	16.72	0.50	78.16	9.51	0.62	0.17	0.03	0.01	0.04	
8	0.27	0.50	2.87	8.77	0.34	130.08	7.35	0.62	0.17	0.03	0.01	0.04	
9	0.27	0.58	17.71	12.92	0.62	624.34	6.00	0.62	0.17	0.03	0.01	0.04	
10	0.27	4.13	13.84	5.35	127.17	443.83	6.66	0.58	0.17	0.03	0.01	0.04	
11	0.27	3.55	3.55	3.55	13.84	110.10	6.00	0.50	0.17	0.03	0.01	0.04	
12	0.27	2.87	1.35	1.92	10.26	68.39	5.35	0.50	0.17	0.03	0.01	0.03	
13	0.27	2.87	0.85	0.85	5.35	29.08	6.00	0.42	0.17	0.03	0.01	0.03	
14	0.24	6.00	0.58	0.58	2.22	21.01	3.55	0.42	0.17	0.03	0.01	0.03	
15	0.24	2.22	0.62	0.42	1.92	16.72	3.55	0.42	0.12	0.03	0.01	0.03	
16	0.24	1.92	1.09	0.38	682.61	15.74	2.87	0.42	0.12	0.03	0.01	0.03	
17	0.24	1.63	1.09	0.34	1255.22	12.92	2.54	0.42	0.12	0.03	0.01	0.03	
18	0.38	1.35	133.01	9.51	78.16	234.45	3.20	0.38	0.09	0.03	0.01	0.03	
19	0.38	0.50	83.27	1.92	33.38	83.27	3.20	0.38	0.09	0.03	0.01	0.03	
20	0.34	0.50	55.14	0.62	17.71	99.12	2.54	0.38	0.09	0.03	0.01	0.03	
21	0.34	0.42	314.10	1.63	11.13	36.33	2.22	0.38	0.07	0.03	0.01	0.03	
22	0.34	0.42	23.62	0.58	472.70	21.01	3.20	0.34	0.07	0.03	0.00	0.03	
23	0.34	0.42	8.77	37.84	608.65	17.71	3.55	0.34	0.07	0.03	0.00	0.03	
24	0.34	0.38	3.20	12.02	73.15	18.72	2.54	0.27	0.07	0.03	0.00	0.03	
25	0.34	0.38	2.54	2.22	37.84	21.01	2.22	0.27	0.07	0.03	0.00	0.01	
26	0.34	0.34	1.35	0.62	30.49	26.31	1.92	0.27	0.04	0.03	0.00	0.01	
27	0.34	0.50	1.09	0.50	78.16	18.72	1.63	0.27	0.04	0.03	0.00	0.01	
28	0.34	10.26	0.62	0.85	27.68	12.02	1.63	0.27	0.04	0.01	0.01	0.01	
29	0.34	66.13	1.09	39.36	15.74	10.26	1.35	0.24	0.04	0.01	0.01	0.01	
30	0.34	15.74	33.38	2.22	12.02	8.77	1.35	0.24	0.04	0.01		0.01	
31		3.20		4.73	10.26		0.85		0.04	0.01		0.01	
TOTAL	9.11	130.70	743.88	614.53	3628.65	2511.04	175.23	14.25	3.95	0.89	0.23	0.85	7833.31 TON
MEAN	0.30	4.22	24.80	19.82	117.05	83.70	5.65	0.48	0.13	0.03	0.01	0.03	
MAX	0.38	66.13	314.10	220.78	1255.22	624.34	24.95	1.35	0.24	0.04	0.01	0.04	1255.22
MIN	0.24	0.27	0.58	0.34	0.34	8.77	0.85	0.24	0.04	0.01	0.00	0.01	0.00

WATER YEAR 1987

CHI RIVER BASIN

CHI RIVER AT BAN THA PHRA, KHON KAEN (E.16A)

LOCATION LAT. 16°-21'-14" N., LONG. 102°-45'-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.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED U.S.D- 49

PERIOD OF AVAILABLE RECORDS 1965-1972,1980 TO DATE

ACTUAL MEASUREMENT 1967,1980 TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER LQC/LQC02D/12

STATION - BAN THA PHRA, MUANG, KHON KAEN, (E.16A)
STREAM - CHI
RIVER - CHI
RIVER SYSTEM - CHI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 160988
1.61726
QS = 1.5630 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.5	3.9	17.2	182.8	0.2	757.3	6939.5	9235.7	792.9	94.1	8.0	3.0	
2	0.5	3.5	12.7	135.7	0.2	792.9	7165.3	7859.3	722.3	87.0	7.3	2.6	
3	0.4	3.2	11.9	87.0	0.2	961.0	7741.9	6605.9	637.5	77.8	6.7	2.5	
4	0.3	3.0	16.2	58.6	0.2	1148.9	8986.7	5167.4	556.9	69.0	6.0	2.5	
5	0.3	3.0	18.1	39.8	0.2	941.7	9699.0	3940.8	487.9	64.7	8.7	2.5	
6	0.3	2.9	20.1	54.6	0.1	847.6	10344.6	2911.3	443.9	62.7	15.3	2.4	
7	0.5	2.9	26.8	99.0	0.1	875.4	10916.9	2199.7	415.4	58.6	18.1	2.4	
8	0.5	2.9	26.8	106.5	0.1	766.1	11319.9	1779.8	354.0	54.6	19.1	2.3	
9	0.6	2.6	28.3	89.3	0.1	687.9	11682.8	1548.5	308.9	50.7	19.1	1.8	
10	0.8	2.6	50.7	56.6	0.1	670.9	12096.3	1290.1	266.2	48.8	18.1	1.7	
11	0.8	3.2	106.5	31.5	0.1	549.0	12421.7	1014.0	237.2	48.8	19.1	1.5	
12	1.2	3.7	147.0	16.2	0.1	820.1	12797.6	820.1	208.4	43.3	19.1	1.4	
13	1.2	4.0	182.8	10.3	0.1	1186.8	13337.4	696.4	195.4	39.8	17.2	1.4	
14	1.2	14.4	278.2	6.0	0.1	1706.2	13901.9	612.9	182.8	41.5	11.9	1.3	
15	1.2	19.1	429.5	4.2	0.1	2160.4	14073.0	588.6	170.5	43.3	8.7	1.1	
16	1.2	21.1	549.0	3.9	0.1	2462.8	13958.9	588.6	167.5	38.1	6.7	1.2	
17	1.2	38.1	588.6	3.3	0.8	2694.3	13958.9	612.9	158.6	28.3	6.7	1.3	
18	1.7	50.7	572.6	2.9	66.9	2889.4	14130.2	662.5	147.0	23.9	8.7	1.3	
19	2.2	41.5	510.5	2.4	272.2	3000.0	14417.6	739.7	130.2	21.1	10.3	1.3	
20	1.7	43.3	443.9	1.8	226.0	3157.7	14823.6	884.8	124.7	20.1	8.0	1.2	
21	1.5	38.1	334.4	1.5	141.3	3411.2	15529.6	1062.3	122.1	19.1	5.4	1.2	
22	1.4	33.1	226.0	1.1	87.0	3696.6	16369.0	1212.3	114.2	18.1	4.8	1.1	
23	1.5	23.9	158.6	0.7	91.7	3866.8	16795.0	1251.0	106.5	16.2	4.2	1.0	
24	1.3	19.1	111.6	0.4	201.9	4216.7	16611.9	1186.8	103.9	15.3	3.7	0.9	
25	1.1	20.1	82.3	0.3	422.4	4709.2	16248.1	1148.9	103.9	15.3	3.2	0.8	
26	1.1	29.9	69.0	0.2	637.5	5678.0	15648.5	1099.1	101.4	15.3	3.3	0.8	
27	1.2	38.1	99.0	0.1	766.1	6753.4	14823.6	1074.5	99.0	14.4	3.7	0.7	
28	2.4	34.7	155.6	0.1	801.9	6864.8	13675.0	1014.0	96.5	13.5	3.7	0.7	
29	3.7	34.7	201.9	0.1	775.0	6902.1	12562.2	951.3	103.9	11.0	3.3	0.6	
30	4.2	33.1	208.4	0.1	713.6	6790.5	11546.2	875.4	101.4	9.5		0.6	
31		35.4		0.2	730.9		10388.2		99.0	8.0		0.5	
TOTAL	37.7	599.8	5684.2	997.2	5937.3	81965.7	394911.0	60634.6	7860.0	1171.9	278.1	45.5	560123.0 TON
MEAN	1.3	19.3	189.5	32.2	191.5	2732.2	12739.1	2021.2	253.5	37.8	9.6	1.5	
MAX	4.2	50.7	588.6	182.8	801.9	6902.1	16795.0	9235.7	792.9	94.1	19.1	3.0	16795.0
MIN	0.3	2.6	11.9	0.1	0.1	549.0	6939.5	588.6	96.5	8.0	3.2	0.5	0.1

WATER YEAR 1987

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.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.DH- 59

PERIOD OF AVAILABLE RECORDS — 1968 TO DATE

ACTUAL MEASUREMENT — 1975 TO DATE

REMARKS — CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1979 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN NONG O, BAN KHWAO, CHAIYAPHUM, (E.32A)
STREAM - CHI
RIVER - CHI
RIVER SYSTEM - CHI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 111188
1.37385
QS = 3.2163 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.44	8.57	26.17	162.81	18.69	227.53	1358.28	162.81	65.82	13.49	8.11	6.35	
2	3.13	6.35	34.30	93.27	18.69	186.38	1749.81	157.69	55.98	12.46	8.11	5.51	
3	2.53	8.57	37.71	54.07	16.58	162.81	3637.86	160.24	54.07	12.46	8.11	4.76	
4	2.25	9.03	44.78	34.30	16.58	175.80	5133.06	170.57	48.44	12.46	8.11	4.76	
5	2.25	6.78	82.41	27.75	14.02	160.24	4414.48	170.57	44.78	12.46	8.11	4.76	
6	1.97	9.98	130.35	21.60	10.95	210.80	4364.08	145.09	41.20	12.97	9.98	4.42	
7	1.97	84.55	250.36	20.86	11.45	1130.35	2681.21	145.09	37.71	12.97	9.98	4.08	
8	1.97	59.86	463.27	20.13	17.98	5149.51	1669.38	132.78	34.30	12.46	9.03	4.08	
9	1.70	26.17	722.96	17.98	17.28	9009.59	1317.24	120.77	30.98	11.95	9.03	3.76	
10	1.70	15.90	763.76	17.98	37.71	10693.05	1462.37	111.39	29.35	11.45	9.50	3.44	
11	1.45	20.13	221.91	15.90	219.12	10693.05	1525.81	104.49	27.75	10.46	8.11	3.44	
12	1.45	27.75	236.02	14.55	216.34	9184.39	1130.35	99.96	26.17	9.98	7.66	3.44	
13	1.45	13.49	297.73	15.22	61.83	6471.29	920.50	97.72	23.10	9.98	8.57	3.44	
14	1.45	14.02	194.43	12.97	32.62	4269.98	769.64	111.39	23.10	9.98	8.57	3.13	
15	1.45	18.69	106.78	10.46	26.17	1906.19	679.92	181.07	20.86	9.98	7.66	3.76	
16	9.03	54.07	78.17	9.98	32.62	895.87	684.67	194.43	20.13	9.98	7.21	3.44	
17	3.76	46.60	67.83	9.03	30.98	642.28	582.38	152.61	20.13	9.98	7.66	2.83	
18	10.95	17.98	44.78	8.57	718.14	689.42	476.14	123.15	19.41	9.98	6.78	2.53	
19	4.42	12.46	37.71	8.11	3543.89	2364.24	493.44	135.21	19.41	9.98	9.50	2.53	
20	3.13	10.46	104.49	7.21	3795.94	3471.27	459.01	219.12	17.98	9.98	9.50	2.25	
21	3.44	9.98	175.80	6.78	1358.28	3881.00	510.90	205.31	17.28	9.98	7.66	2.53	
22	4.42	13.49	285.68	6.35	416.95	3795.94	757.90	160.24	16.58	9.98	6.78	2.25	
23	6.78	16.58	288.68	5.92	276.73	2356.25	727.78	137.66	16.58	9.03	6.78	2.25	
24	7.21	10.95	160.24	5.51	823.10	1727.77	433.64	132.78	16.58	8.11	6.35	2.25	
25	7.66	8.11	95.49	5.11	1906.19	1256.32	336.25	120.77	15.90	7.66	6.35	2.25	
26	8.11	7.66	61.83	6.78	2444.47	1136.89	285.68	109.08	15.90	7.66	6.35	2.25	
27	7.21	6.35	39.44	7.66	1236.19	2772.55	253.25	97.72	15.22	8.11	5.92	2.25	
28	4.42	6.78	29.35	8.11	665.74	2607.11	224.72	91.07	14.55	9.03	5.92	2.25	
29	7.66	7.21	37.71	7.21	559.77	1490.47	202.57	82.41	14.55	8.57	5.92	1.70	
30	9.98	8.11	294.71	5.51	396.33	1216.15	183.72	73.99	14.55	8.57		1.70	
31		17.28		7.66	282.69		162.81		14.02	8.57		1.70	
TOTAL	128.34	583.91	5414.85	655.35	19224.02	89934.49	39588.86	4107.18	832.38	320.68	227.32	100.09	161117.47 TON
MEAN	4.28	18.84	180.50	21.14	620.13	2997.82	1277.06	136.91	26.85	10.34	7.84	3.23	
MAX	10.95	84.55	763.76	162.81	3795.94	10693.05	5133.06	219.12	65.82	13.49	9.98	6.35	10693.05
MIN	1.45	6.35	26.17	5.11	10.95	160.24	162.81	73.99	14.02	7.66	5.92	1.70	1.45

WATER YEAR 1987

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 1,511 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D - 49

PERIOD OF AVAILABLE RECORDS 1986 TO DATE

ACTUAL MEASUREMENT 1986 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1986 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN KAENG YAO, KUCHINARAI, KALASIN, (E.54)
STREAM - NAM YANG
RIVER - CHI
RIVER SYSTEM - CHI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 190988
1.44858
QS = 4.0925 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.2	0.1	0.1	577.7	613.2	809.7	1162.0	43.3	13.7	2.7	1.2	0.5	
2	0.1	0.1	0.1	678.8	1137.6	916.0	688.3	37.9	7.4	3.0	1.3	2.4	
3	0.1	0.1	0.1	569.2	1642.3	2036.2	433.5	36.2	8.1	3.2	0.9	2.0	
4	0.1	0.1	0.2	433.5	1734.2	2400.4	321.1	36.2	8.1	1.7	1.3	1.2	
5	0.1	0.1	2.4	234.3	1436.4	2136.7	347.0	54.9	8.1	0.7	1.2	1.0	
6	0.1	0.5	2.4	224.0	893.9	1408.1	327.5	43.3	6.7	2.4	1.0	1.7	
7	0.1	0.9	1.7	272.8	510.9	916.0	245.0	36.2	6.0	1.2	0.5	2.4	
8	0.1	0.2	23.1	267.2	218.9	841.0	203.9	34.4	6.7	1.7	0.7	2.4	
9	0.1	0.1	17.3	250.5	121.7	4877.1	198.9	36.2	6.7	3.5	1.2	2.2	
10	0.1	0.1	31.0	203.9	118.3	16248.9	194.0	34.4	8.8	3.5	1.0	2.2	
11	0.1	0.1	23.1	157.4	290.0	20513.4	203.9	31.0	7.4	2.7	0.9	2.2	
12	0.1	0.7	20.1	121.7	448.7	18542.1	203.9	27.8	7.4	3.2	0.6	2.0	
13	0.1	0.5	15.4	92.4	631.7	12469.9	208.8	26.2	4.7	3.2	0.3	2.4	
14	0.1	0.5	12.0	54.9	544.0	5463.7	224.0	23.1	5.3	3.0	0.6	2.4	
15	0.0	0.1	6.0	47.1	302.0	2640.0	224.0	20.1	4.7	3.0	0.6	1.7	
16	0.1	0.1	3.2	50.9	239.6	1552.1	173.0	20.1	4.1	1.5	0.6	2.4	
17	0.1	0.1	2.0	41.5	3737.9	960.6	157.4	17.3	5.3	1.2	1.0	2.2	
18	0.1	0.1	11.2	45.2	16139.5	718.1	153.5	15.4	3.8	1.2	0.7	1.5	
19	0.1	0.1	11.2	495.1	18428.1	718.1	135.5	18.2	3.2	3.0	0.2	1.3	
20	0.1	0.1	63.0	2293.6	12277.1	1017.7	181.0	15.4	3.2	2.4	0.6	0.9	
21	0.0	0.1	1199.0	2546.0	4985.9	2019.6	161.2	26.2	4.1	2.2	0.5	0.5	
22	0.1	0.1	1366.6	1765.1	2658.9	5406.5	153.5	27.8	3.8	3.8	0.6	1.3	
23	0.1	0.1	728.1	1248.9	3078.1	3618.6	169.1	24.6	2.7	1.7	0.7	1.0	
24	0.1	0.1	327.5	1199.0	16303.7	2364.6	169.1	24.6	1.3	0.9	0.2	0.7	
25	0.1	0.1	161.2	1811.9	19578.1	3164.7	128.5	21.6	2.2	0.7	0.6	0.6	
26	0.1	0.1	92.4	2490.5	13505.0	3571.2	115.0	23.1	2.2	0.6	1.2	2.0	
27	0.1	0.1	54.9	1672.8	6143.4	4423.1	89.3	20.1	2.2	0.9	0.9	2.0	
28	0.1	0.1	52.9	830.5	3386.9	3432.6	71.4	17.3	2.2	0.9	0.1	2.7	
29	0.1	0.1	80.2	464.0	2240.8	2527.3	68.6	15.4	3.5	0.3	0.1	2.2	
30	0.1	0.1	261.6	374.6	1627.2	1734.2	54.9	14.5	3.2	0.7		0.7	
31		0.1		495.1	1125.4		49.0		3.0	0.9		0.6	
TOTAL	2.9	5.8	4570.0	22010.1	136099.4	129448.2	7215.8	822.8	159.8	61.6	21.3	51.3	300469.1 TON
MEAN	0.1	0.2	152.3	710.0	4390.3	4314.9	232.8	27.4	5.2	2.0	0.7	1.7	
MAX	0.2	0.9	1366.6	2546.0	19578.1	20513.4	1162.0	54.9	13.7	3.8	1.3	2.7	20513.4
MIN	0.0	0.1	0.1	41.5	118.3	718.1	49.0	14.5	1.3	0.3	0.1	0.5	0.0

WATER YEAR 1987

CHI RIVER BASIN

LAM KHAN CHU AT BAN KHOK PHANGAT, CHAIYAPHUM (E.60)

LOCATION LAT. 15°-29'-14" N., LONG. 101°-33'-32" E., ON LEFT BANK ABOUT 500 METERS FROM BAN KHOK PHANGAT, AMPHOE BAMNET NARONG, CHAIYAPHUM.

DRAINAGE AREA 205 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D- 59

PERIOD OF AVAILABLE RECORDS 1984 TO DATE

ACTUAL MEASUREMENT 1978 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN KOK PHANGAT, BAMNET NARONG, CHAIYAPHUM, (E.60)
STREAM - LAM KHAN CHU
RIVER - CHI
RIVER SYSTEM - CHI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 050489
1.67397
QS = 6.0360 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.05	0.22	6.04	34.85	14.10	649.51	10.35	1.65	0.85	0.25	0.05	
2	0.41	0.05	0.20	1.77	10.73	9.98	1109.77	9.61	1.53	0.85	0.20	0.04	
3	1.19	0.03	0.28	1.19	4.24	84.85	573.64	8.77	1.36	0.80	0.22	0.01	
4	1.04	0.01	0.37	0.94	1.89	54.43	303.27	7.74	1.47	0.76	0.15	0.00	
5	0.52	0.44	1.65	1.25	1.71	20.90	142.12	6.04	1.41	0.72	0.15	0.01	
6	0.34	0.34	1.19	8.77	1.47	65.63	100.00	6.04	1.25	0.72	0.22	0.00	
7	0.22	0.28	1.19	8.08	1.36	3402.84	70.72	5.74	1.25	0.59	0.22	0.00	
8	0.20	0.22	16.00	8.42	1.25	2453.47	131.47	4.24	1.19	0.59	0.15	0.03	
9	0.15	0.15	58.40	3.01	1.19	843.18	484.96	4.24	1.19	0.59	0.13	0.00	
10	0.04	0.13	34.23	3.24	1.19	699.44	236.19	3.98	1.14	0.59	0.20	0.00	
11	0.03	0.11	23.63	1.53	58.40	452.33	180.37	3.73	1.09	0.63	0.13	0.00	
12	0.05	0.11	1.89	1.25	5.15	389.85	101.57	3.24	1.47	0.63	0.13	0.00	
13	0.04	0.15	2.29	1.19	17.37	172.11	66.69	3.01	1.71	0.55	0.20	0.00	
14	0.04	0.37	1.25	1.14	30.07	87.80	42.30	4.87	1.71	0.52	0.34	0.00	
15	0.03	0.15	0.94	1.19	5.44	59.41	46.82	12.44	1.77	0.44	0.25	0.00	
16	0.01	0.20	0.85	1.09	3.01	49.62	34.85	6.04	1.09	0.41	0.20	0.15	
17	0.03	0.20	1.19	0.94	10.73	38.82	31.83	3.98	1.09	0.41	0.41	0.05	
18	0.00	0.15	0.94	0.90	8.42	1610.18	33.63	3.48	1.09	0.41	0.37	0.05	
19	0.04	0.11	0.90	0.90	63.53	3437.86	43.19	188.78	0.94	0.55	0.25	0.03	
20	0.03	0.09	1.59	0.80	19.91	1002.30	31.24	26.50	0.94	0.37	0.20	0.05	
21	0.05	0.05	1.71	0.80	9.61	567.97	92.30	13.26	0.99	0.37	0.15	0.00	
22	0.04	0.28	1.19	0.72	6.04	590.81	127.99	8.08	1.19	0.37	0.15	0.03	
23	0.03	0.28	0.99	0.72	4.60	389.85	40.55	6.34	1.19	0.37	0.13	0.00	
24	0.03	0.20	0.90	0.67	7.08	174.85	31.83	4.24	0.99	0.34	0.13	0.00	
25	0.11	0.25	0.59	0.59	12.44	116.13	26.50	3.24	7.74	0.34	0.11	0.03	
26	0.11	0.22	0.99	0.59	15.11	443.18	21.40	2.50	1.19	0.34	0.11	0.00	
27	0.05	0.22	7.74	0.55	7.41	280.16	17.83	9.61	0.94	0.25	0.44	0.00	
28	0.04	0.05	6.34	0.55	5.15	303.27	15.55	2.09	0.94	0.34	0.03	0.00	
29	0.11	0.11	1.30	15.55	7.41	150.87	13.68	1.77	0.90	0.34	0.01	0.00	
30	0.05	0.05	3.24	10.35	50.57	461.56	12.03	1.77	0.90	0.34		0.00	
31		0.04		50.57	43.19		11.11		0.90	0.34		0.00	
TOTAL	5.37	5.09	174.19	135.30	450.52	18427.75	4824.91	375.72	44.21	15.72	5.63	0.53	24464.94 TON
MEAN	0.18	0.16	5.81	4.36	14.53	614.26	155.64	12.52	1.43	0.51	0.19	0.02	
MAX	1.19	0.44	58.40	50.57	63.53	3437.86	1109.77	188.78	7.74	0.85	0.44	0.15	3437.86
MIN	0.00	0.01	0.20	0.55	1.19	9.98	11.11	1.77	0.90	0.25	0.01	0.00	0.00

WATER YEAR 1987

MUN RIVER BASIN

MUN RIVER AT SERI PRACHATHIPPATAI BRIDGE, UBON RATCHATHANI (M.7)

LOCATION LAT. 15°-13'-17" N., LONG. 104°-51'-39" E., ON LEFT BANK AT THE SERI PRACHATHIPPATAI, AMPHOE MUANG, UBON RATCHATHANI.

DRAINAGE AREA 106,673 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED U.S.P- 61

PERIOD OF AVAILABLE RECORDS 1964 TO DATE

ACTUAL MEASUREMENT 1964 TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER LQS/LQS02D/12

STATION - SERI PRACHATHIPATAI BRIDGE, MUANG, UBON RATCHATHANI, (M.7)
STREAM - MUN
RIVER - MUN
RIVER SYSTEM - MUN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 230189
1.14030
QS = 2.9727 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.99	4.42	3.47	18.05	26.51	21.67	216.86	86.55	23.90	6.15	3.59	2.75	
2	2.99	4.59	3.23	18.84	24.73	19.85	207.77	86.12	23.36	5.98	3.47	2.75	
3	3.11	4.76	3.35	17.53	22.55	19.85	201.80	86.55	22.02	5.63	3.47	2.63	
4	3.23	4.93	3.35	27.10	20.15	19.85	198.31	85.68	21.22	5.45	3.47	2.63	
5	3.47	4.93	3.23	39.95	18.31	20.46	195.45	82.65	21.22	5.11	3.47	2.51	
6	3.47	5.45	3.11	51.73	17.27	101.75	192.03	78.78	20.68	4.93	3.47	2.51	
7	3.59	5.63	2.99	54.35	16.49	120.67	188.74	73.67	20.15	4.93	3.59	2.51	
8	3.59	5.80	2.99	49.12	15.47	135.47	184.37	68.46	19.10	4.76	3.72	2.63	
9	2.87	5.98	3.11	42.93	14.95	151.99	180.01	63.07	18.05	4.59	3.72	2.63	
10	3.72	6.33	3.23	37.99	14.70	181.10	175.12	57.37	17.53	4.59	3.72	2.63	
11	3.72	6.33	3.35	33.77	13.69	207.17	170.25	53.22	16.75	4.42	3.47	2.75	
12	3.59	6.15	3.47	30.56	11.93	223.56	164.85	48.38	16.24	4.25	3.35	2.75	
13	3.47	5.98	3.59	27.40	10.83	231.50	156.06	43.26	15.21	4.25	3.23	2.99	
14	3.47	5.80	3.72	23.90	9.23	235.18	147.46	39.30	14.70	4.25	3.47	3.23	
15	3.35	5.63	3.96	24.17	8.13	236.41	138.96	37.66	14.45	4.09	3.47	3.47	
16	3.23	5.63	4.25	22.82	9.42	235.18	132.00	37.01	13.69	3.96	3.72	3.47	
17	2.99	5.28	4.59	19.63	18.57	233.34	126.56	36.68	12.93	3.84	3.72	3.47	
18	2.75	5.11	6.15	16.75	26.51	232.12	122.63	35.71	12.18	3.84	3.72	3.47	
19	2.51	4.93	9.42	17.53	26.51	233.34	119.20	33.44	11.69	3.72	3.84	3.47	
20	2.40	4.76	10.22	21.22	24.44	234.57	116.27	31.20	11.03	3.72	3.72	3.47	
21	2.28	4.59	13.94	21.75	25.32	237.02	113.35	28.98	10.42	3.72	3.59	3.35	
22	2.28	4.42	14.95	20.68	18.50	238.25	111.40	27.72	9.82	3.59	3.47	3.35	
23	2.28	4.25	14.45	20.15	46.85	238.25	109.46	26.81	9.42	3.59	3.35	3.23	
24	2.40	4.25	13.69	20.42	44.59	239.48	107.53	25.92	8.68	3.59	3.35	3.23	
25	2.40	4.25	12.93	20.42	53.70	238.87	105.60	25.92	8.49	3.59	3.23	3.11	
26	2.63	4.25	12.18	20.15	63.00	238.25	104.16	25.92	8.13	3.59	3.11	3.11	
27	2.99	3.96	12.43	19.36	58.33	237.64	100.79	25.62	7.95	3.59	2.99	2.99	
28	3.72	3.72	13.18	18.57	43.72	235.80	98.02	25.32	7.58	3.59	2.87	2.99	
29	3.96	4.09	13.94	19.10	35.95	232.12	94.84	25.03	7.22	3.59	2.87	2.87	
30	4.25	3.84	14.45	21.48	30.29	224.78	91.34	24.44	7.04	3.59		2.87	
31		3.59		27.40	25.33		88.29		6.69	3.59		2.87	
TOTAL	93.70	153.63	220.92	824.82	795.97	5455.49	4459.48	1426.44	437.54	132.08	100.23	92.69	14192.99 100TON
MEAN	3.12	4.96	7.36	26.61	25.68	181.85	143.85	47.55	14.11	4.26	3.46	2.99	
MAX	4.25	6.33	14.95	54.35	63.00	239.48	216.86	86.55	23.90	6.15	3.84	3.47	239.48
MIN	2.28	3.59	2.99	16.75	8.13	19.85	88.29	24.44	6.69	3.59	2.87	2.51	2.28

WATER YEAR 1987

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 FROM THE BRIDGE ON ROAD, AMPHOE DET UDOM, UBON RATCHATHANI.

DRAINAGE AREA 3,363 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.P- 61

PERIOD OF AVAILABLE RECORDS 1966 TO DATE

ACTUAL MEASUREMENT 1967 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1978 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - DET UDOM, DET UDOM, UBON RATCHATHANI, (M.80)
STREAM - LAM DOM YAI
RIVER - MUN
RIVER SYSTEM - MUN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 070988
1.26072
QS = 2.6150 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.6	1.2	68.5	212.4	128.6	863.1	1367.2	254.5	215.4	27.2	18.9	3.3	
2	1.6	1.2	106.6	392.4	128.6	768.0	1245.7	463.6	183.4	27.2	18.9	3.3	
3	1.6	1.0	163.6	426.2	126.1	1168.0	1203.7	782.1	166.4	27.2	18.9	4.7	
4	1.6	1.0	44.1	1559.4	111.3	1318.3	1103.0	768.0	155.3	27.2	18.9	6.3	
5	1.6	1.0	40.6	2586.7	86.0	1144.3	1091.3	647.9	147.1	27.2	18.9	6.3	
6	1.6	1.0	70.6	2044.0	68.5	2051.3	1398.0	616.3	126.1	27.2	18.9	6.3	
7	1.6	1.0	102.0	1355.0	52.5	3093.6	1699.0	558.5	121.2	27.2	18.9	4.7	
8	1.6	1.0	42.9	834.3	172.0	3341.7	2110.1	463.6	116.2	27.2	18.9	0.8	
9	1.6	1.0	41.7	607.3	155.3	3640.7	2374.4	476.3	106.6	27.2	18.9	0.8	
10	1.6	1.4	47.7	585.0	61.2	4232.8	2350.2	514.9	102.0	27.2	18.9	0.8	
11	1.6	3.8	53.7	702.8	58.7	4464.8	1805.4	450.9	0.0	27.2	18.9	0.8	
12	1.6	6.3	55.0	585.0	56.2	4273.0	1191.8	395.8	0.0	22.9	18.9	0.8	
13	1.6	6.7	55.0	416.0	131.2	3631.3	848.7	489.1	42.9	22.9	16.9	0.0	
14	1.6	11.6	57.5	313.9	459.3	2886.6	679.8	739.9	39.4	22.9	16.9	0.0	
15	2.1	46.5	68.5	269.9	693.6	2480.1	589.5	1203.7	42.9	22.9	16.9	0.0	
16	3.1	48.9	104.3	310.7	1044.7	2406.8	536.6	1324.4	42.9	20.9	16.9	0.0	
17	3.8	44.1	133.7	304.4	1361.1	2794.2	549.7	1085.5	39.4	20.9	16.9	0.0	
18	4.7	42.9	155.3	248.4	1404.2	3906.7	558.5	853.5	39.4	20.9	16.9	3.3	
19	3.8	41.7	336.4	227.3	1336.6	4495.2	467.8	725.9	39.4	20.9	16.9	4.7	
20	3.1	46.5	476.3	215.4	1348.9	4791.7	416.0	634.3	36.0	18.9	16.9	7.9	
21	2.8	45.3	426.2	263.7	1318.3	5051.0	379.1	585.0	31.5	18.9	16.9	9.6	
22	2.5	44.1	725.9	288.6	1191.8	5347.0	342.9	541.0	31.5	18.9	15.0	11.3	
23	2.3	41.7	786.8	301.2	2326.0	5453.5	362.6	480.6	31.5	18.9	11.3	11.3	
24	3.1	41.7	362.6	254.5	3528.0	5357.6	422.8	429.6	31.5	18.9	7.9	11.3	
25	2.8	41.7	206.6	200.7	3697.4	5114.1	422.8	369.2	29.3	18.9	4.7	3.6	
26	2.5	41.7	149.8	392.4	3416.0	4617.4	385.8	326.7	27.2	18.9	4.7	7.9	
27	2.1	41.7	113.8	981.3	2819.3	3659.6	339.7	298.0	27.2	18.9	4.7	0.8	
28	1.8	40.6	92.8	200.7	2496.4	2636.2	301.2	273.0	27.2	18.9	4.7	0.8	
29	1.6	40.6	118.7	476.3	2007.4	2080.6	269.9	254.5	27.2	18.9	4.7	2.0	
30	1.6	42.9	166.4	118.7	1478.6	1755.6	248.4	236.3	27.2	18.9		4.7	
31		41.7		131.2	1185.8		239.3		27.2	18.9		6.3	
TOTAL	66.1	773.5	5373.6	17805.8	34449.6	98824.8	27300.9	17242.6	2080.5	701.2	436.6	130.4	205185.6 TON
MEAN	2.2	25.0	179.1	574.4	1111.3	3294.2	880.7	574.8	67.1	22.6	15.1	4.2	
MAX	4.7	48.9	786.8	2586.7	3697.4	5453.5	2374.4	1324.4	215.4	27.2	18.9	11.3	5453.5
MIN	1.6	1.0	40.6	118.7	52.5	768.0	239.3	236.3	0.0	18.9	4.7	0.0	0.0

WATER YEAR 1987

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.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D- 49

PERIOD OF AVAILABLE RECORDS 1981 TO DATE

ACTUAL MEASUREMENT 1981 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1981 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - PAK CHONG, PAK CHONG, NAKHON RATCHASIMA, (M.89)
STREAM - LAM TA KHONG
RIVER - MUN
RIVER SYSTEM - MUN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 091188

QS = 0.7297 QW 1.36914

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.32	4.94	4.94	3.32	2.53	58.42	93.68	25.10	14.11	4.36	2.53	4.94	
2	2.86	7.57	4.94	2.86	2.53	36.47	79.81	25.10	13.02	4.36	2.53	3.83	
3	2.86	7.57	9.09	4.36	2.53	38.57	124.70	25.10	13.02	4.36	2.53	4.36	
4	2.53	4.94	5.54	4.94	3.83	67.03	152.01	25.10	13.02	3.83	2.22	4.36	
5	1.93	3.32	2.86	4.94	4.36	32.45	120.58	23.41	13.02	3.83	1.93	5.54	
6	1.93	3.83	3.32	7.57	4.36	58.42	108.64	23.41	10.97	3.83	1.93	4.94	
7	1.66	4.36	4.36	9.09	4.94	858.75	58.42	21.77	10.97	3.32	1.93	4.94	
8	1.66	7.57	2.86	8.31	3.83	2055.23	50.50	21.77	10.97	3.32	1.93	4.36	
9	1.42	4.36	2.86	6.86	3.83	248.07	294.31	20.20	9.09	3.32	1.93	3.83	
10	1.19	5.54	2.53	6.18	4.94	241.78	287.47	20.20	9.09	3.32	3.32	3.83	
11	1.42	2.86	2.53	5.54	4.36	2781.35	152.01	18.89	9.09	3.32	10.01	3.83	
12	1.42	4.36	2.53	4.94	3.32	407.09	267.41	17.63	9.09	3.32	5.54	3.32	
13	1.66	4.36	2.53	6.18	3.32	167.29	137.45	23.41	7.57	3.32	7.57	3.32	
14	1.42	13.02	2.53	7.57	2.86	79.81	101.03	32.45	7.57	2.86	4.94	2.53	
15	1.93	10.01	2.53	6.18	2.86	50.50	104.80	30.53	7.57	2.86	3.83	1.93	
16	3.32	11.97	2.86	6.86	2.53	38.57	120.58	26.85	7.57	2.86	3.83	1.93	
17	43.15	13.02	2.53	4.94	2.53	45.54	64.01	25.10	7.57	2.86	3.83	1.93	
18	16.41	7.57	2.53	4.36	2.86	337.03	58.42	21.77	7.57	2.86	4.36	2.53	
19	8.31	5.54	9.09	4.94	2.86	2476.54	61.18	18.89	6.86	2.86	4.94	2.22	
20	5.54	6.18	10.97	4.94	11.97	971.29	79.81	16.41	6.86	2.86	5.54	2.53	
21	3.32	4.36	7.57	4.94	15.24	280.70	486.12	15.24	6.86	2.86	5.54	2.22	
22	13.02	2.86	13.02	4.94	10.01	194.34	523.45	15.24	6.86	2.86	4.94	1.93	
23	14.11	2.86	26.85	4.36	7.57	254.44	217.43	14.11	6.18	2.86	3.83	1.93	
24	5.54	2.86	13.02	4.36	7.57	133.13	128.88	14.11	5.54	2.53	3.83	1.93	
25	5.54	2.53	8.31	3.83	13.02	86.61	90.11	14.11	3.83	2.53	4.36	1.93	
26	5.54	2.53	6.18	3.32	124.70	101.03	64.01	11.97	4.36	2.53	4.36	1.66	
27	4.94	2.53	9.09	3.32	28.66	137.45	50.50	11.97	4.94	2.53	4.36	1.66	
28	3.32	2.53	10.97	3.32	13.02	177.87	40.83	20.20	4.94	2.53	4.36	1.66	
29	2.86	2.53	6.86	2.53	97.32	205.73	32.45	26.85	4.94	2.53	6.18	1.66	
30	3.32	2.53	4.94	2.86	287.47	124.70	26.85	17.63	4.94	3.53		1.66	
31		2.86		2.53	223.40		25.10		4.94	2.53		1.66	
TOTAL	167.45	163.87	190.74	155.19	905.13	12746.20	4202.55	624.52	252.93	96.65	118.93	90.90	19715.06 TON
MEAN	5.58	5.29	6.36	5.01	29.20	424.87	135.57	20.82	8.16	3.12	4.10	2.93	
MAX	43.15	13.02	26.85	9.09	287.47	2781.35	523.45	32.45	14.11	4.36	10.01	5.54	2781.35
MIN	1.19	2.53	2.53	2.53	2.53	32.45	25.10	11.97	3.83	2.53	1.93	1.66	1.19

WATER YEAR 1987

MUN RIVER BASIN

HUAI SAMRAN AT BAN TAMUAN, SI SA KET (M.91)

LOCATION LAT. 14°-29'-48" N., LONG. 104°-03'-29" E., ON RIGHT BANK ABOUT 15 KILOMETERS FROM THE HIGHWAY AT BAN TAMUAN, TAMBON LALOM, AMPHOE KHUKHAN, SI SA KET.

DRAINAGE AREA 128 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D-49

PERIOD OF AVAILABLE RECORDS 1986 TO DATE

ACTUAL MEASUREMENT 1986 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER LQS/LQC02D/12

STATION - BAN TAMUAN, KHUKHAN, SI SA KET, (M.91)
STREAM - HUAI SAMRAN
RIVER - MUN
RIVER SYSTEM - MUN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 091188

QS = 1.34127 2.1444 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.03	0.10	0.03	0.37	8.33	3.50	1.44	0.46	0.00	0.03	
2	0.00	0.00	0.03	0.12	0.03	0.54	14.70	4.30	1.30	0.46	0.00	0.03	
3	0.00	0.01	0.07	0.12	0.03	0.83	12.85	3.69	1.30	0.21	0.00	0.04	
4	0.00	0.01	0.02	0.21	0.03	0.54	9.78	3.11	1.30	0.19	0.00	0.04	
5	0.00	0.01	0.01	0.21	0.03	0.73	156.09	2.74	1.30	0.19	0.00	0.05	
6	0.00	0.01	0.01	0.19	0.05	21.72	30.28	2.40	1.30	0.19	0.00	0.05	
7	0.00	0.01	0.00	0.15	0.08	109.96	52.56	2.40	1.15	0.15	0.00	0.07	
8	0.00	0.01	0.03	0.17	0.05	17.02	68.56	2.92	1.15	0.10	0.01	0.07	
9	0.00	0.01	0.01	0.29	0.04	8.05	30.85	2.57	1.15	0.05	0.01	0.07	
10	0.00	0.46	0.02	0.21	0.03	13.22	17.85	2.06	1.04	0.04	0.01	0.08	
11	0.00	0.29	0.02	0.21	0.02	313.26	14.70	1.90	1.04	0.03	0.01	0.08	
12	0.00	0.29	0.02	0.29	0.02	102.89	13.22	2.92	1.04	0.03	0.01	0.08	
13	0.00	0.21	0.02	0.19	0.01	28.27	10.98	6.25	1.04	0.02	0.01	0.07	
14	0.00	0.19	0.03	0.29	0.01	22.16	8.33	38.43	0.94	0.02	0.01	0.05	
15	0.00	0.19	0.03	0.29	0.01	13.22	14.32	23.95	0.94	0.02	0.01	0.07	
16	0.00	0.14	0.03	0.29	0.01	20.85	8.05	12.53	0.94	0.02	0.01	0.08	
17	0.01	0.03	0.03	0.21	0.01	120.34	9.78	9.19	0.83	0.01	0.01	0.14	
18	0.01	0.01	0.03	0.19	0.01	107.93	7.21	6.25	0.83	0.01	0.03	0.15	
19	0.01	0.01	0.03	0.21	0.02	176.97	8.90	4.72	0.83	0.01	0.01	0.17	
20	0.01	0.00	0.03	0.46	0.02	70.23	7.21	4.30	0.73	0.01	0.01	0.19	
21	0.01	0.00	0.03	0.37	0.02	37.24	5.80	3.50	0.73	0.01	0.01	0.17	
22	0.01	0.00	0.04	0.29	0.03	31.42	5.58	3.30	0.73	0.01	0.01	0.19	
23	0.01	0.00	0.04	0.21	0.08	22.61	5.80	2.92	0.73	0.01	0.01	0.15	
24	0.01	0.00	0.05	0.19	2.57	15.84	14.32	2.57	0.73	0.01	0.01	0.08	
25	0.01	0.01	0.05	0.19	2.23	20.85	7.76	2.23	0.64	0.01	0.02	0.04	
26	0.01	0.01	0.08	0.14	1.04	11.31	6.25	2.06	0.64	0.00	0.02	0.04	
27	0.01	0.01	0.08	0.08	0.73	10.68	6.02	2.06	0.54	0.01	0.03	0.04	
28	0.00	0.01	0.08	0.04	0.64	13.22	3.89	2.74	0.54	0.00	0.03	0.04	
29	0.00	0.01	0.12	0.03	0.54	17.02	3.11	2.06	0.54	0.00	0.04	0.04	
30	0.00	0.02	0.10	0.03	0.46	10.98	2.92	1.90	0.54	0.00		0.04	
31		0.03		0.03	0.37		2.40		0.46	0.00		0.04	
TOTAL	0.11	1.99	1.17	6.00	9.25	1340.87	568.40	165.47	28.41	2.28	0.33	2.48	2126.76 TON
MEAN	0.00	0.06	0.04	0.19	0.30	44.70	18.34	5.52	0.92	0.07	0.01	0.08	
MAX	0.01	0.46	0.12	0.46	2.57	313.26	156.09	38.43	1.44	0.46	0.04	0.19	313.26
MIN	0.00	0.00	0.00	0.03	0.01	0.37	2.40	1.90	0.46	0.00	0.00	0.03	0.00

WATER YEAR 1987

MUN RIVER BASIN

HUAI THAP THAN AT BAN YAENG, SURIN (M.101)

LOCATION LAT. 14°-37'-42" N., LONG. 103°-42'-12" E., ON LEFT BANK AT THE BRIDE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 170-171 AND ABOUT 17 KILOMETERS FROM AMPHOE SANGKHA, BAN YAENG, TAMBON KRA THIAM, AMPHOE SANGKHA, SURIN.

DRAINAGE AREA 390 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.DH - 59

PERIOD OF AVAILABLE RECORDS 1986 - TO DATE

ACTUAL MEASUREMENT 1986 - TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQC/LQC02D/12

STATION - BAN YAENG, SANGKHA, SURIN, (M.101)
STREAM - HUAI THAP THAN
RIVER - MUN
RIVER SYSTEM - MUN RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 111188
2.80601
QS = 0.0283 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	136.44	1.92	0.12	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	66.42	0.71	0.01	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	35.75	0.28	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	23.62	0.20	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	4.52	0.55	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	4.11	0.62	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.42	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.28	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.37	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.81	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	21.57	0.48	1.03	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.48	0.14	1.03	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	1.29	0.11	1.29	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	3.38	0.07	1.58	0.01	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	4.94	0.32	2.44	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	11.18	0.32	2.73	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	11.18	1.58	2.44	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	274.82	2.44	1.58	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	428.56	1.75	0.91	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	2342.03	0.81	0.48	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	1978.73	0.08	0.28	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	1192.58	0.01	0.16	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	721.33	0.01	0.16	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	343.26	0.81	0.23	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	198.20	2.73	0.16	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	66.42	2.73	0.28	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	30.51	3.73	0.55	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	19.64	4.94	0.71	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	23.62	4.52	0.91	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	116.92	3.73	1.03	0.00	0.00		0.00	
31		0.00		0.00	0.00		2.73		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	7790.64	308.49	26.14	0.14	0.00	0.00	0.00	8125.41 TON
MEAN	0.00	0.00	0.00	0.00	0.00	259.69	9.95	0.87	0.00	0.00	0.00	0.00	
MAX	0.00	0.00	0.00	0.00	0.00	2342.03	136.44	2.73	0.12	0.00	0.00	0.00	2342.03
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.16	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1987

NAKHON NAYOK RIVER BASIN

KHLONG SAMO PUN AT PRACHIN BURI, PRACHIN BURI (NY.4)

LOCATION — LAT. 14°-17'-23" N., LONG. 101°-24'-16" E., ON LEFT BANK AT THE BRIDGE OF CHANTHABURI-KHAO YAI HIGHWAY, AMPHOE MUANG, PRACHIN BURI.

DRAINAGE AREA — 128 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — U.S.D - 49

PERIOD OF AVAILABLE RECORDS — 1986 TO DATE

ACTUAL MEASUREMENT — 1986 TO DATE

REMARKS — CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1986 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - KHAO YAI, MUANG, PRACHIN BURI, (NY.4)
STREAM - KHLONG SAMOPUN
RIVER - MAE NAM NAKHON NAYOK
RIVER SYSTEM - NAKHON NAYOK RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 140289
1.61289
QS = 0.4881 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.02	0.02	36.21	44.46	49.82	12.86	3.55	0.35	0.03	0.00	0.00	
2	0.01	0.02	0.01	18.90	75.91	51.66	16.98	4.03	0.30	0.03	0.00	0.00	
3	0.01	0.01	0.01	31.94	26.57	135.85	16.05	4.37	0.30	0.03	0.00	0.00	
4	0.01	0.01	0.02	92.33	17.93	53.52	12.86	3.09	0.30	0.03	0.00	0.00	
5	0.01	0.02	0.03	83.83	14.25	44.46	24.03	2.45	0.30	0.03	0.00	0.00	
6	0.00	0.03	0.11	39.33	11.52	165.15	21.92	1.87	0.26	0.03	0.00	0.00	
7	0.00	0.04	0.40	26.57	9.02	480.92	16.05	1.74	0.19	0.03	0.00	0.00	
8	0.00	0.09	7.02	31.94	7.43	135.85	12.86	1.37	0.19	0.03	0.00	0.00	
9	0.00	0.06	3.55	41.01	5.82	818.45	34.76	1.26	0.19	0.03	0.00	0.00	
10	0.02	0.05	2.25	25.29	5.07	1261.54	20.90	1.15	0.19	0.02	0.01	0.00	
11	0.02	0.06	0.94	16.98	3.78	193.13	17.93	1.15	0.17	0.02	0.02	0.00	
12	0.02	0.05	0.56	24.03	5.82	98.17	29.21	1.37	0.17	0.02	0.02	0.00	
13	0.02	0.04	0.75	117.63	9.02	57.57	24.03	1.87	0.17	0.02	0.02	0.00	
14	0.01	0.26	0.94	49.82	9.62	37.67	18.90	2.25	0.15	0.02	0.02	0.00	
15	0.02	2.06	0.84	29.21	21.92	26.57	21.92	1.62	0.15	0.02	0.01	0.00	
16	0.03	0.40	7.86	25.29	10.24	18.90	16.05	1.15	0.13	0.02	0.01	0.00	
17	0.06	0.17	16.98	31.94	9.62	16.05	25.29	1.04	0.11	0.01	0.00	0.00	
18	0.17	0.09	73.51	39.33	17.93	259.46	27.88	1.04	0.11	0.01	0.01	0.00	
19	0.13	0.06	17.93	41.01	15.14	114.10	59.76	1.62	0.11	0.01	0.02	0.00	
20	0.06	0.05	17.93	29.21	18.90	68.81	42.72	1.15	0.09	0.01	0.02	0.00	
21	0.08	0.04	95.23	21.92	59.76	46.22	27.88	0.94	0.08	0.01	0.02	0.00	
22	0.13	0.03	44.46	17.93	29.21	34.76	22.97	0.94	0.06	0.01	0.01	0.00	
23	0.05	0.02	21.92	11.52	39.33	31.94	16.98	0.75	0.06	0.01	0.01	0.00	
24	0.03	0.02	11.52	9.02	51.66	26.57	12.18	0.75	0.06	0.01	0.01	0.00	
25	0.02	0.02	11.52	7.02	89.46	29.21	9.62	0.62	0.05	0.01	0.01	0.00	
26	0.01	0.02	83.83	5.82	48.01	24.03	7.43	0.62	0.04	0.01	0.01	0.00	
27	0.01	0.01	18.90	5.44	78.33	29.21	6.21	0.84	0.04	0.01	0.00	0.00	
28	0.00	0.01	12.86	5.07	893.10	21.92	5.07	0.84	0.04	0.01	0.00	0.00	
29	0.01	0.02	13.55	5.82	418.48	18.90	4.71	0.56	0.03	0.00	0.00	0.00	
30	0.01	0.02	12.18	4.03	247.27	16.05	4.03	0.45	0.03	0.00		0.00	
31		0.02		3.62	73.51		3.78		0.03	0.00		0.00	
TOTAL	0.97	3.82	477.63	935.01	2368.09	4366.46	593.82	46.45	4.45	0.53	0.23	0.00	8797.46 TON
MEAN	0.03	0.12	15.92	30.16	76.39	145.55	19.16	1.55	0.14	0.02	0.01	0.00	
MAX	0.17	2.06	95.23	117.63	893.10	1261.54	59.76	4.37	0.35	0.03	0.02	0.00	1261.54
MIN	0.00	0.01	0.01	4.03	3.78	16.05	3.78	0.45	0.03	0.00	0.00	0.00	0.00

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

PRACHIN BURI RIVER AT KABIN BURI, PRACHIN BURI (KGT.3)

LOCATION LAT. 13°-59'-05" N., LONG. 101°-42'-32" E., ON LEFT BANK INFRONT OF AMPHOE KABIN BURI OFFICE AND ABOUT 500 METERS DOWNSTREAM FROM THE CONFLUENCE OF LAM PRONG AND LAM HANUMAN, AMPHOE KABIN BURI, PRACHIN BURI.

DRAINAGE AREA 7,502 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D- 49

PERIOD OF AVAILABLE RECORDS 1964 TO DATE

ACTUAL MEASUREMENT 1966-1968,1970-1972,1983 TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1983 - 1987

RID COMPUTER CENTER LQS/LQS02D/12

STATION - A.KRABIN BURI, KABIN BURI, PRACHIN BURI, (KGT.3)
STREAM - PRACHIN BURI
RIVER - PRACHIN BURI
RIVER SYSTEM - PRACHIN BURI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 020289
1.12589
QS = 5.5932 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	29.7	29.7	42.1	138.5	89.2	1016.7	3255.2	408.5	325.1	105.7	38.1	39.7	
2	38.1	33.5	39.7	128.7	228.7	751.8	2322.4	427.9	315.2	105.7	33.5	39.7	
3	35.8	31.9	35.8	148.5	184.4	665.2	2621.1	440.2	367.0	97.0	33.5	38.1	
4	35.8	30.4	36.6	177.9	210.6	618.1	2593.5	762.7	351.0	89.2	33.5	34.2	
5	31.9	31.9	53.3	393.3	198.4	595.8	2393.0	1345.4	322.1	83.2	33.5	20.0	
6	29.7	30.4	56.5	440.2	164.0	790.0	2574.8	1167.8	297.4	79.0	33.5	17.1	
7	24.4	42.1	118.9	448.4	172.3	2706.4	2463.8	828.4	267.2	75.6	31.9	38.1	
8	23.7	97.0	172.3	505.3	177.9	4412.7	2313.8	732.2	263.3	72.2	33.5	35.8	
9	22.2	195.6	166.8	480.4	135.8	3542.8	1962.5	822.9	250.7	64.7	33.5	35.8	
10	20.0	121.5	145.8	637.3	114.4	3542.8	1639.4	779.0	235.4	56.5	42.8	54.9	
11	17.8	95.2	118.9	665.2	117.1	5511.4	1498.7	932.6	232.5	63.1	56.5	53.3	
12	17.8	83.2	92.6	605.3	111.8	6124.9	2078.0	839.4	232.5	59.8	46.0	49.2	
13	16.4	105.7	73.9	659.8	99.6	6611.8	2271.8	747.4	232.5	58.1	46.0	44.4	
14	16.4	95.2	59.8	1295.6	148.5	6352.6	2109.8	742.0	228.7	54.9	46.0	33.5	
15	14.3	83.2	49.2	1022.4	293.5	6096.0	2046.3	806.4	216.3	50.8	58.1	30.4	
16	25.9	87.5	56.5	878.1	290.6	5889.9	1828.4	737.6	195.6	49.2	63.1	28.1	
17	21.5	135.8	192.8	742.0	276.9	5578.2	1538.7	659.8	169.6	49.2	64.7	24.4	
18	20.0	161.3	235.4	618.1	396.3	5444.8	1383.9	618.1	166.8	46.0	64.7	23.7	
19	17.8	148.5	207.8	517.8	526.2	5889.9	1302.5	583.0	161.3	42.1	56.5	20.0	
20	22.2	84.9	232.5	378.1	595.8	5848.8	1326.9	591.5	169.6	44.4	77.3	19.3	
21	21.5	58.1	552.4	307.3	683.5	5848.8	1197.6	565.1	164.0	46.0	72.2	17.8	
22	22.2	47.6	1108.5	245.0	717.0	5698.3	1131.2	669.5	155.8	42.1	56.5	17.1	
23	23.7	42.1	905.9	201.2	544.0	5657.3	1073.2	595.8	154.0	39.7	52.4	15.0	
24	31.9	38.1	659.8	164.0	472.1	5766.6	900.3	522.0	158.5	42.1	44.4	13.6	
25	30.4	33.5	492.8	135.8	806.4	5631.4	845.0	488.7	143.1	39.7	40.5	17.1	
26	24.4	28.1	400.4	114.4	1131.2	5379.6	839.4	448.4	118.9	35.8	42.1	16.4	
27	38.1	31.9	416.6	101.3	878.1	5045.5	697.5	408.5	117.1	33.5	44.4	16.4	
28	52.4	66.4	539.8	110.0	1138.1	4585.7	609.6	382.1	114.4	35.8	40.5	17.8	
29	38.1	46.0	600.0	70.5	2621.1	3843.4	544.0	382.1	110.0	34.2	46.0	17.8	
30	22.2	35.8	517.8	63.1	2482.5	3360.7	488.7	355.0	118.9	33.5		17.8	
31		39.7		83.2	1612.1		452.5		110.0	29.7		17.8	
TOTAL	786.3	2191.8	8381.2	12476.7	17618.1	128807.9	50303.5	19790.0	6464.5	1758.5	1365.2	864.3	250808.0 TON
MEAN	26.2	70.7	279.4	402.5	568.3	4293.6	1622.7	659.7	208.5	56.7	47.1	27.9	
MAX	52.4	195.6	1108.5	1295.6	2621.1	6611.8	3255.2	1345.4	367.0	105.7	77.3	54.9	6611.8
MIN	14.3	28.1	35.8	63.1	89.2	595.8	452.5	355.0	110.0	29.7	31.9	13.6	13.6

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG PHRA SATHUNG AT BAN WANG KHIAN, PRACHIN BURI (KGT.10)

LOCATION LAT. 13°-48'-29" N., LONG. 102°-03'-35" E., ON LEFT BANK NEAR SAHA CHAROEN SAWMILL, BAN WANG KHIAN, AMPHOE SA KAEO, PRACHIN BURI.

DRAINAGE AREA 2,523 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D- 49

PERIOD OF AVAILABLE RECORDS 1967 TO DATE

ACTUAL MEASUREMENT 1969 TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER LQS/LQS02D/12

STATION - BAN WANG KHIAN, SAKAEO, PRACHIN BURI, (KGT.10)
STREAM - KHLONG PHRA SATHUNG
RIVER - KHLONG PHRA PRONG
RIVER SYSTEM - PRACHIN BURI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 020289
1.35041
QS = 3.2510 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.34	3.16	4.07	8.85	9.78	38.53	434.11	25.38	73.14	4.25	1.52	2.99	
2	2.82	2.99	5.42	7.19	47.63	25.98	282.20	36.30	103.39	3.88	1.52	2.32	
3	2.82	2.45	10.84	7.19	72.06	51.18	325.22	826.31	59.42	3.88	1.41	2.57	
4	2.32	2.45	7.73	8.29	52.08	100.81	520.59	1734.18	38.53	3.88	1.31	2.45	
5	1.97	6.45	48.51	14.98	53.90	78.61	357.68	657.90	31.54	3.88	1.11	3.70	
6	1.63	15.77	144.90	16.17	105.99	78.61	500.05	305.65	24.19	3.34	1.01	3.34	
7	1.11	161.60	88.19	20.36	75.32	240.55	904.07	505.90	20.36	3.16	1.01	2.82	
8	1.01	44.14	54.81	135.11	51.18	370.67	392.44	340.10	17.92	2.82	0.82	10.48	
9	0.82	32.81	31.54	260.07	29.66	340.10	249.18	453.92	15.77	1.85	0.82	6.03	
10	0.73	13.82	17.45	192.68	28.42	253.52	362.74	523.54	14.59	2.09	1.21	3.52	
11	0.73	44.14	9.78	126.18	30.28	563.81	1202.41	194.59	13.82	2.57	1.21	2.45	
12	0.73	48.51	6.45	90.68	60.45	1942.39	880.33	175.79	13.44	1.97	6.45	1.97	
13	0.47	34.10	4.83	76.41	54.81	3121.13	841.12	240.55	13.06	2.32	9.43	1.41	
14	0.47	43.28	3.70	55.72	40.04	3679.63	728.32	194.59	12.31	2.57	8.85	1.21	
15	0.27	65.66	2.99	50.29	32.18	2904.06	514.70	166.70	11.57	2.32	5.62	0.82	
16	0.27	165.00	2.99	38.53	27.80	2149.93	337.61	133.61	10.84	2.32	3.34	0.73	
17	0.23	183.25	2.82	21.85	25.38	1745.84	223.68	95.71	10.13	2.20	1.85	0.64	
18	0.15	43.28	3.70	14.98	24.78	2649.55	249.18	75.32	8.85	2.09	21.85	0.64	
19	0.15	19.86	6.45	14.98	40.04	3283.39	209.97	61.49	8.29	1.85	16.97	0.47	
20	0.23	13.06	14.20	10.48	192.68	3299.78	123.24	206.10	8.29	1.85	10.13	0.47	
21	0.32	9.14	29.66	18.89	260.07	2671.32	90.68	266.66	7.73	1.85	7.19	0.53	
22	0.32	5.82	76.41	14.20	105.99	2103.66	72.06	127.66	7.46	1.85	4.83	0.58	
23	0.53	5.02	89.43	8.29	56.64	2378.36	73.14	83.26	6.66	1.63	4.25	0.53	
24	1.41	4.07	93.19	7.19	40.80	2781.87	208.03	62.52	6.45	1.52	2.32	0.47	
25	3.52	3.88	83.26	6.24	39.29	2911.75	185.13	55.72	6.24	1.41	1.85	0.47	
26	2.82	3.52	32.18	5.22	126.18	2064.20	102.10	45.00	6.03	1.31	1.85	0.37	
27	2.09	3.52	16.57	3.88	414.53	1234.70	68.84	37.78	5.82	1.21	1.85	1.41	
28	1.97	4.63	9.78	5.42	227.77	822.61	49.40	34.10	5.62	1.11	2.69	0.82	
29	4.25	4.25	6.45	3.88	98.25	1074.75	40.04	33.46	5.22	1.21	3.52	0.64	
30	3.88	8.85	6.03	5.22	62.52	796.89	33.46	32.81	4.83	1.41		0.47	
31		4.63		5.82	55.72		28.42		4.63	1.52		0.32	
TOTAL	43.38	1003.11	914.33	1255.24	2542.22	45758.18	10590.14	7732.60	576.14	71.12	127.79	57.64	70671.89 TON
MEAN	1.45	32.36	30.48	40.49	82.01	1525.27	341.62	257.75	18.59	2.29	4.41	1.86	
MAX	4.25	183.25	144.90	260.07	414.53	3679.63	1202.41	1734.18	103.39	4.25	21.85	10.48	3679.63
MIN	0.15	2.45	2.82	3.88	9.78	25.98	28.42	25.38	4.63	1.11	0.82	0.32	0.15

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG PHRA PRONG AT BAN KAENG, PRACHIN BURI (KGT.12)

LOCATION LAT. 13°-56'-02" N., LONG. 101°-58'-41" E., ON LEFT BANK NEAR THE 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.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D- 49

PERIOD OF AVAILABLE RECORDS 1967 TO DATE

ACTUAL MEASUREMENT 1969 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1978 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN KAENG, SA KAEO, PRACHIN BURI, (KGT.12)
STREAM - KHLONG PRA PRONG
RIVER - PRACHIN BURI
RIVER SYSTEM - PRACHIN BURI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 020289
1.12924
QS = 3.7128 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.40	1.39	1.74	17.11	6.94	11.88	119.42	26.82	27.29	3.38	0.74	0.54	
2	4.78	1.17	2.09	29.67	6.94	11.88	130.58	28.72	29.19	3.21	0.81	0.40	
3	3.71	0.95	1.51	42.94	7.21	12.64	143.12	32.34	28.72	3.21	0.74	0.54	
4	2.72	0.81	2.09	48.47	8.03	11.21	150.98	45.39	26.34	3.21	0.74	0.54	
5	2.24	1.06	1.85	44.78	6.67	9.88	146.18	46.62	25.40	3.05	0.60	0.60	
6	1.74	4.13	14.20	46.01	6.67	11.88	148.23	35.04	24.46	2.72	0.67	1.28	
7	1.39	4.78	15.77	53.45	5.65	26.82	117.67	37.22	24.93	2.56	0.74	2.40	
8	1.17	7.48	22.13	60.50	5.21	81.77	106.40	35.04	22.13	2.40	1.39	6.94	
9	1.06	9.56	14.59	73.81	5.21	137.21	101.43	33.96	14.98	2.40	1.74	4.56	
10	1.06	8.58	9.23	79.51	4.56	137.21	97.46	38.31	14.59	2.40	1.85	2.89	
11	0.95	6.40	6.40	79.51	3.92	157.79	85.66	61.19	14.59	2.09	1.51	1.85	
12	0.95	5.43	4.56	74.52	3.71	295.30	83.33	71.69	13.03	1.85	1.17	1.85	
13	0.81	4.99	3.38	78.08	3.71	601.26	74.52	59.81	13.03	1.74	0.95	1.51	
14	0.81	3.92	2.72	119.42	5.21	725.94	77.37	52.20	14.20	1.62	1.06	1.17	
15	0.74	3.71	2.40	156.44	18.92	770.57	71.69	57.22	13.03	1.62	1.97	0.88	
16	0.74	3.38	3.38	156.44	29.67	740.53	67.47	59.12	12.26	1.51	2.40	0.74	
17	0.74	3.21	4.56	115.93	23.06	634.61	70.99	63.28	10.54	1.51	1.85	0.60	
18	0.67	2.72	3.21	81.00	17.11	523.29	81.77	64.67	10.21	1.51	1.51	0.60	
19	0.74	2.56	3.55	61.89	14.20	510.02	89.58	59.12	11.21	1.17	1.06	0.54	
20	1.39	2.56	54.08	48.47	12.26	564.69	77.37	54.08	10.87	1.28	0.95	0.40	
21	3.05	1.85	152.33	39.96	10.87	624.20	65.37	51.58	9.56	1.06	0.88	0.40	
22	7.76	1.51	158.50	31.27	10.54	619.08	56.59	51.58	8.91	1.06	0.88	0.28	
23	6.40	1.39	107.27	27.29	10.21	598.78	48.47	47.86	7.48	0.95	0.74	0.28	
24	4.35	0.95	82.55	20.29	10.87	588.89	46.62	42.94	6.94	0.95	0.74	0.28	
25	3.21	0.81	70.28	16.67	13.42	555.16	48.47	36.13	6.40	0.88	0.67	0.21	
26	2.09	0.81	59.81	14.98	14.20	478.46	44.17	33.42	6.67	0.88	0.60	0.24	
27	2.24	1.06	46.62	9.88	13.03	348.96	40.51	30.20	6.13	0.88	0.54	0.24	
28	2.40	0.88	32.88	6.94	11.88	238.75	36.13	29.67	5.43	0.81	0.54	0.21	
29	2.24	0.67	26.82	5.87	11.88	150.98	31.81	27.29	4.99	0.81	0.67	0.28	
30	1.97	0.67	19.38	5.43	11.88	138.17	27.76	24.93	4.35	0.74		0.28	
31		0.88		6.67	11.88		25.87		3.71	0.74		0.28	
TOTAL	70.52	90.27	929.88	1653.20	325.52	10317.81	2512.99	1337.44	431.57	54.20	30.71	33.81	17787.92 TON
MEAN	2.35	2.91	31.00	53.33	10.50	343.93	81.06	44.58	13.92	1.75	1.06	1.09	
MAX	7.76	9.56	158.50	156.44	29.67	770.57	150.98	71.69	29.19	3.38	2.40	6.94	770.57
MIN	0.67	0.67	1.51	5.43	3.71	9.88	25.87	24.93	3.71	0.74	0.54	0.21	0.21

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG SI YAT AT BAN THA KLOI, CHACHOENGSAO (KGT.18)

LOCATION LAT. 13°-28'-29" N., LONG. 101°-37'-44" E., ON RIGHT BANK AT BAN THA KLOI, AMPHOE SANAM CHAI KHET, CHACHOENGSAO.

DRAINAGE AREA 951 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D - 49

PERIOD OF AVAILABLE RECORDS 1986 TO DATE

ACTUAL MEASUREMENT 1986 TO DATE

REMARKS CONTINUED SEDIMENT STATION USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN THA KLOI, SANAM CHAI KHET, CHACHOENGSAO, (KGT.18)
STREAM - KHLONG SI YAT
RIVER - BANG PAKONG
RIVER SYSTEM - PRACHIN BURI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 020289
1.72040
QS = 0.5643 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.01	0.06	0.07	2.58	0.47	40.45	1.20	0.62	0.04	0.01	0.02	
2	0.02	0.02	0.06	0.06	10.60	0.39	30.15	2.69	0.55	0.04	0.01	0.01	
3	0.02	0.02	0.05	0.14	5.28	0.34	366.71	32.77	0.44	0.04	0.01	0.01	
4	0.01	0.02	0.05	0.13	2.36	1.01	374.05	20.28	0.37	0.03	0.01	0.01	
5	0.01	0.02	0.06	0.14	1.13	2.19	298.70	10.07	0.34	0.03	0.01	0.09	
6	0.01	0.02	0.06	0.11	0.84	1.20	894.15	6.75	0.28	0.03	0.01	0.12	
7	0.01	0.02	0.06	0.11	1.63	0.79	377.75	5.11	0.23	0.03	0.01	0.07	
8	0.01	0.02	0.05	0.11	2.19	0.62	90.65	4.94	0.22	0.03	0.01	0.11	
9	0.01	0.02	0.05	0.13	3.40	0.44	94.34	4.13	0.20	0.03	0.01	0.09	
10	0.01	0.39	0.04	0.44	2.02	0.51	157.59	3.28	0.18	0.03	0.01	0.04	
11	0.01	0.12	0.04	0.30	0.95	0.95	95.67	2.47	0.17	0.02	0.01	0.04	
12	0.00	0.20	0.03	0.17	0.51	81.10	83.44	2.02	0.16	0.02	0.18	0.03	
13	0.00	0.23	0.13	0.13	0.37	51.59	59.00	2.28	0.15	0.02	0.21	0.02	
14	0.00	0.22	0.08	0.09	0.28	33.30	52.49	12.27	0.14	0.02	0.12	0.02	
15	0.00	0.22	0.04	0.07	0.47	66.83	41.26	7.16	0.12	0.03	0.02	0.02	
16	0.00	0.42	0.03	0.06	0.44	161.51	30.67	4.61	0.11	0.02	0.04	0.01	
17	0.00	0.25	0.03	0.05	0.30	90.65	20.28	3.16	0.11	0.02	0.04	0.01	
18	0.00	0.16	0.03	0.04	0.37	216.44	13.24	2.19	0.09	0.02	0.03	0.01	
19	0.00	0.12	0.03	0.03	0.37	262.00	10.60	3.40	0.09	0.02	0.03	0.01	
20	0.00	0.10	0.03	0.04	0.34	114.00	8.57	30.15	0.09	0.02	0.03	0.01	
21	0.00	0.10	0.04	0.37	0.28	52.49	6.94	14.58	0.08	0.02	0.03	0.01	
22	0.01	0.08	0.04	0.20	0.30	38.83	6.00	7.85	0.07	0.01	0.03	0.01	
23	0.02	0.06	0.28	0.13	0.37	74.23	14.24	4.77	0.07	0.01	0.02	0.01	
24	0.02	0.05	0.39	0.07	0.32	231.67	13.57	3.28	0.06	0.01	0.02	0.01	
25	0.02	0.04	0.28	0.11	0.25	352.21	7.85	2.28	0.06	0.01	0.02	0.01	
26	0.02	0.03	0.22	0.62	0.25	250.55	5.28	1.70	0.06	0.01	0.02	0.01	
27	0.06	0.03	0.17	0.25	1.34	77.63	3.82	1.27	0.05	0.01	0.02	0.01	
28	0.03	0.04	0.13	0.16	2.69	51.59	2.81	1.13	0.05	0.01	0.02	0.00	
29	0.02	0.05	0.10	0.11	2.02	133.47	2.02	0.95	0.05	0.01	0.02	0.00	
30	0.02	0.05	0.08	0.08	1.13	84.62	1.63	0.79	0.05	0.01		0.00	
31		0.06		0.16	0.71		1.41		0.04	0.01		0.00	
TOTAL	0.36	3.19	2.74	4.68	46.09	2433.62	3205.33	199.53	5.30	0.66	1.01	0.82	5903.33 TON
MEAN	0.01	0.10	0.09	0.15	1.49	81.12	103.40	6.65	0.17	0.02	0.03	0.03	
MAX	0.06	0.42	0.39	0.62	10.60	352.21	894.15	32.77	0.62	0.04	0.21	0.12	894.15
MIN	0.00	0.01	0.03	0.03	0.25	0.34	1.41	0.79	0.04	0.01	0.01	0.00	0.00

WATER YEAR 1987

PRACHIN BURI RIVER BASIN

KHLONG RABOM AT BAN CHAM PA NGAM, CHACHOENGSAO (KGT.25)

LOCATION	LAT. 13°-41'-09" N., LONG. 101°-36'-32" E., ON LEFT BANK AT BAN CHAM PA NGAM, AMPHOE SANAM CHAI KHET, CHACHOENGSAO.
DRAINAGE AREA	243 SQ.KM.
METHOD OF SAMPLING	POINT INTEGRATING
INSTRUMENT USED	SOUTH PACIFIC
PERIOD OF AVAILABLE RECORDS	1986 - TO DATE
ACTUAL MEASUREMENT	1986 - TO DATE
REMARKS	CONTINUED SEDIMENT STATION USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN CHAM PA NGAM, SANAM CHAI KHET, CHACHOENGSAO, (KGT.25)
STREAM - KHLONG RABOM
RIVER - KHLONG THA LAT
RIVER SYSTEM - PRACHIN BURI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 150389

QS = 6.8827 QW 1.31863

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.17	0.37	0.47	24.76	0.82	31.91	4.30	0.99	0.00	0.00	0.00	
2	0.17	0.17	0.52	0.47	15.16	0.67	23.90	3.82	0.82	0.00	0.00	0.00	
3	0.17	0.21	0.47	0.47	11.03	0.72	21.35	5.82	0.82	0.00	0.00	0.00	
4	0.13	0.21	0.42	0.56	7.99	1.11	18.54	5.30	0.67	0.00	0.00	0.00	
5	0.13	0.47	0.56	3.36	5.99	1.05	21.00	4.14	0.72	0.00	0.00	0.00	
6	0.10	0.42	0.47	4.14	3.82	1.16	15.16	3.66	0.67	0.00	0.00	0.00	
7	0.10	0.25	0.37	5.64	2.76	2.19	13.21	3.36	0.47	0.00	0.00	0.00	
8	0.07	0.21	0.99	5.64	2.47	3.20	9.93	3.20	0.37	0.00	0.00	0.00	
9	0.07	0.21	0.88	5.82	1.99	2.76	10.12	2.91	0.33	0.00	0.00	0.00	
10	0.10	0.21	0.77	4.79	1.72	3.36	35.10	2.47	0.29	0.00	0.00	0.00	
11	0.13	0.37	0.67	4.14	1.60	25.25	37.27	2.33	0.25	0.00	0.00	0.00	
12	0.17	0.47	0.61	2.76	1.47	52.67	43.39	1.86	0.25	0.00	0.00	0.00	
13	0.13	0.29	0.56	0.52	1.72	92.95	4.14	1.72	0.07	0.00	0.00	0.00	
14	0.00	0.25	0.52	0.77	1.53	93.81	31.91	2.19	0.04	0.00	0.00	0.00	
15	0.10	0.21	0.47	1.35	1.41	132.12	13.86	1.92	0.02	0.00	0.00	0.00	
16	0.07	0.17	0.47	1.47	1.28	150.96	6.70	1.92	0.00	0.00	0.00	0.00	
17	0.02	0.17	0.47	1.35	1.28	200.96	5.47	1.72	0.00	0.00	0.00	0.00	
18	0.00	0.17	0.47	1.28	1.28	415.67	6.88	1.47	0.00	0.00	0.00	0.00	
19	0.00	0.17	0.47	1.05	1.22	409.33	5.64	2.06	0.00	0.00	0.00	0.00	
20	0.00	0.17	0.52	0.82	1.22	342.54	9.33	2.91	0.00	0.00	0.00	0.00	
21	0.00	0.17	0.72	0.72	1.53	322.85	4.96	3.36	0.00	0.00	0.00	0.00	
22	1.16	0.17	0.82	0.67	1.79	270.81	2.76	3.20	0.00	0.00	0.00	0.00	
23	0.33	0.13	2.06	0.77	1.60	244.46	2.06	2.76	0.00	0.00	0.00	0.00	
24	0.29	0.13	1.86	0.61	1.22	262.03	2.06	2.61	0.00	0.00	0.00	0.00	
25	0.25	0.21	1.41	0.56	1.16	248.34	1.86	1.53	0.00	0.00	0.00	0.00	
26	0.21	0.17	0.99	1.35	1.66	159.05	1.66	1.16	0.00	0.00	0.00	0.00	
27	0.25	0.72	0.82	4.79	1.60	92.10	1.47	1.53	0.00	0.00	0.00	0.00	
28	0.21	0.42	0.67	1.79	1.53	109.46	1.35	1.28	0.00	0.00	0.00	0.00	
29	0.21	0.25	0.52	1.47	1.28	80.40	1.35	1.41	0.00	0.00	0.00	0.00	
30	0.21	0.56	0.47	1.47	1.22	49.72	1.16	1.16	0.00	0.00		0.00	
31		0.42		109.46	1.05		1.05		0.00	0.00		0.00	
TOTAL	4.99	8.32	21.39	170.53	107.34	3772.52	386.55	79.08	6.78	0.00	0.00	0.00	4557.50 TON
MEAN	0.17	0.27	0.71	5.50	3.46	125.75	12.47	2.64	0.22	0.00	0.00	0.00	
MAX	1.16	0.72	2.06	109.46	24.76	415.67	43.39	5.82	0.99	0.00	0.00	0.00	415.67
MIN	0.00	0.13	0.37	0.47	1.05	0.67	1.05	1.16	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1987

MAE KLONG RIVER BASIN

KHWAE NOI RIVER 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 ,008 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D- 49

PERIOD OF AVAILABLE RECORDS 1965 TO DATE

ACTUAL MEASUREMENT 1965-1967,1971-1972,1974 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1978 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN LUM SUM, SAI YOK, KHANCHANABURI, (K.10)
STREAM - KHWAE NOI
RIVER - MAE KLONG
RIVER SYSTEM - MAE KLONG RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 080988
1.46541
QS = 0.4958 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	574.73	124.43	360.56	662.80	989.17	628.08	866.73	855.86	183.63	200.99	1459.26	1330.47	
2	687.96	114.48	209.86	584.31	932.88	1274.41	802.15	647.85	203.94	88.52	1246.71	1110.98	
3	910.66	112.03	419.73	527.55	818.14	1171.45	818.14	522.90	183.63	77.44	802.15	1137.70	
4	834.24	109.60	468.18	527.55	834.24	1071.21	927.31	775.71	134.65	129.51	812.80	1205.44	
5	812.80	206.89	424.07	481.68	1058.09	1151.13	677.86	754.76	147.76	86.26	437.15	1171.45	
6	574.73	672.83	546.27	316.13	1131.00	1178.22	550.98	949.66	212.84	192.25	574.73	1023.45	
7	300.44	546.27	579.51	195.15	1052.29	905.13	932.88	839.63	180.78	206.89	398.27	983.50	
8	364.70	593.95	424.07	212.84	1185.01	398.27	994.86	877.65	189.36	237.18	258.62	1144.41	
9	647.85	1246.71	394.03	254.92	1131.00	949.66	899.61	589.13	109.60	277.38	437.15	1151.13	
10	579.51	1636.82	989.17	495.30	807.47	1380.07	960.90	402.54	119.42	192.25	786.25	1110.98	
11	708.31	796.84	2433.81	759.98	938.46	1423.14	823.50	541.57	112.03	215.84	775.71	1084.39	
12	770.46	277.38	2459.57	728.84	1137.70	1330.47	657.80	589.13	142.47	203.94	713.42	1253.61	
13	593.95	352.35	2281.64	490.75	960.90	1401.60	428.41	579.51	221.87	328.06	845.03	1171.45	
14	373.00	1532.47	2357.39	504.45	734.00	1091.00	845.03	662.80	114.48	288.84	687.96	905.13	
15	402.54	1946.77	1452.02	550.98	1011.98	1029.19	1064.64	682.91	86.26	352.35	703.21	1046.50	
16	518.27	1510.42	938.46	698.11	1084.39	1503.09	1178.22	555.70	132.07	316.13	796.84	1253.61	
17	406.81	744.36	1689.85	718.55	845.03	1697.45	955.27	292.69	121.92	281.18	703.21	1239.73	
18	628.08	100.06	1459.26	532.21	927.31	1554.63	899.61	454.80	304.34	316.13	292.69	1766.49	
19	667.81	300.44	1212.27	546.27	1104.34	1539.85	555.70	522.90	415.41	95.39	243.91	2173.67	
20	522.90	927.31	1084.39	481.68	1198.61	1452.02	459.24	468.18	364.70	243.91	504.45	1401.60	
21	332.07	759.98	1735.74	527.55	1178.22	1017.71	1185.01	424.07	360.56	308.25	845.03	1058.09	
22	786.25	647.85	1205.44	966.53	1064.64	569.95	1205.44	569.95	79.62	234.09	894.11	910.66	
23	775.71	642.89	894.11	972.17	693.03	744.36	944.05	499.87	77.44	312.18	728.84	1071.21	
24	589.13	532.21	1481.17	989.17	628.08	1071.21	527.55	273.59	81.81	285.00	955.27	1084.39	
25	155.82	328.06	1415.94	966.53	972.17	1337.52	221.87	419.73	107.19	296.55	1058.09	1034.95	
26	124.43	77.44	1302.30	765.22	2148.91	1071.21	300.44	589.13	88.52	137.24	1151.13	1023.45	
27	116.94	550.98	1131.00	518.27	1629.30	1124.31	177.95	921.75	64.78	273.59	1052.29	1034.95	
28	139.85	406.81	1394.35	441.54	1547.23	1091.00	454.80	872.18	60.73	459.24	1274.41	1052.29	
29	142.47	398.27	698.11	839.63	1525.11	850.44	574.73	477.16	77.44	749.56	989.17	949.66	
30	126.96	437.15	215.84	983.50	1547.23	905.13	1064.64	394.03	231.02	839.63		1084.39	
31		389.79		955.27	966.53		1023.45		285.00	989.17		1017.71	
TOTAL	15169.38	19023.84	33658.11	19195.43	33782.46	33912.91	23978.77	18007.34	5195.27	9214.94	22427.86	35987.44	269553.75 TON
MEAN	505.65	613.67	1121.94	619.21	1089.76	1130.43	773.51	600.24	167.59	297.26	773.37	1160.89	
MAX	910.66	1946.77	2459.57	989.17	2148.91	1697.45	1205.44	949.66	415.41	989.17	1459.26	2173.67	2459.57
MIN	116.94	77.44	209.86	195.15	628.08	398.27	177.95	273.59	60.73	77.44	243.91	905.13	60.73

WATER YEAR 1987

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.
METHOD OF SAMPLING	DEPTH INTEGRATING
INSTRUMENT USED	US.DH - 59
PERIOD OF AVAILABLE RECORDS	1988 TO DATE
ACTUAL MEASUREMENT	1988 TO DATE
REMARKS	CONTINUED SEDIMENT STATION USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN NAM PHU, CHOM BUNG, RATCHABURI, (K.28)
STREAM - HUAI SAMNAK MAI TENG
RIVER - OM.
RIVER SYSTEM - MAE KLONG RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 080988
1.13534
QS = 8.5261 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	3.97	0.22	0.00	0.00	2.42	2.67	13.51	0.28	0.05	0.05	
2	0.00	0.00	2.42	0.16	0.00	0.00	7.09	138.62	8.53	0.28	0.05	0.05	
3	0.00	0.00	1.69	0.10	0.00	0.00	43.25	21.30	5.69	0.28	0.05	0.00	
4	0.00	0.00	1.22	0.05	0.00	0.00	36.85	10.49	3.18	0.22	0.05	0.00	
5	0.00	0.00	1.45	0.05	0.00	0.00	244.20	108.28	2.09	0.22	0.05	0.00	
6	0.00	0.00	2.42	0.00	0.00	0.00	110.51	63.96	1.93	0.22	0.05	0.00	
7	0.00	0.00	5.69	0.00	0.00	0.00	34.32	103.83	4.24	0.22	0.05	0.00	
8	0.00	0.00	2.09	0.00	0.00	0.00	17.04	272.69	2.09	0.16	0.05	0.00	
9	0.00	0.00	1.22	0.00	0.00	0.00	12.49	151.92	1.85	0.16	0.00	0.00	
10	0.00	0.00	0.84	0.00	0.00	0.00	9.99	63.96	1.69	0.16	0.00	0.00	
11	0.00	0.00	0.77	0.00	0.00	0.00	7.56	442.01	1.29	0.16	0.05	0.00	
12	0.00	0.00	0.70	0.00	0.00	0.00	5.69	374.32	1.29	0.16	0.05	0.00	
13	0.00	0.00	0.62	0.00	0.00	0.00	4.24	143.49	1.22	0.16	0.05	0.00	
14	0.00	0.00	0.55	0.00	0.00	0.00	3.71	91.15	1.06	0.16	0.05	0.00	
15	0.00	0.00	0.55	0.00	0.00	0.00	3.44	45.84	0.99	0.16	0.05	0.00	
16	0.00	0.00	0.70	0.00	0.00	0.00	2.67	27.00	0.91	0.10	0.05	0.00	
17	0.00	0.00	0.84	0.00	0.00	0.00	3.44	17.04	0.84	0.10	0.05	0.00	
18	0.00	0.00	0.77	0.00	0.00	0.00	2.93	9.50	0.77	0.10	0.10	0.00	
19	0.00	6.62	0.62	0.00	0.00	44.55	2.42	17.88	0.77	0.10	0.10	0.00	
20	0.00	1.53	0.62	0.00	0.00	20.44	0.99	13.00	0.62	0.05	0.10	0.00	
21	0.00	1.29	0.62	0.00	0.00	22.17	2.09	9.01	0.55	0.05	0.10	0.00	
22	0.00	2.93	0.70	0.00	0.00	50.13	1.93	5.69	0.55	0.05	0.10	0.00	
23	0.00	0.99	0.62	0.00	0.00	29.01	1.93	4.77	0.55	0.10	0.10	0.00	
24	0.00	0.77	0.48	0.00	0.00	11.99	7.56	3.97	0.48	0.10	0.05	0.00	
25	0.00	1.69	0.42	0.00	0.00	15.37	13.00	3.71	0.48	0.10	0.05	0.00	
26	0.00	4.24	0.35	0.00	0.00	30.02	5.69	3.18	0.48	0.10	0.05	0.00	
27	0.00	1.22	0.28	0.00	0.00	10.98	3.18	9.50	0.48	0.10	0.05	0.00	
28	0.00	1.85	0.28	0.00	0.00	11.99	2.09	244.20	0.42	0.10	0.05	0.00	
29	0.00	3.71	0.28	0.00	0.00	4.50	2.09	53.01	0.35	0.05	0.05	0.00	
30	0.00	2.93	0.22	0.00	0.00	3.44	1.93	26.00	0.28	0.05		0.00	
31		1.29		0.00	0.00		3.18		0.28	0.05		0.00	
TOTAL	0.00	31.06	34.00	0.58	0.00	254.59	599.92	2481.99	59.46	4.30	1.65	0.10	3467.65 TON
MEAN	0.00	1.00	1.13	0.02	0.00	8.49	19.35	82.73	1.92	0.14	0.06	0.00	
MAX	0.00	6.62	5.69	0.22	0.00	50.13	244.20	442.01	13.51	0.28	0.10	0.05	442.01
MIN	0.00	0.00	0.22	0.00	0.00	0.00	0.99	2.67	0.28	0.05	0.00	0.00	0.00

WATER YEAR 1987

PHETCHABURI RIVER BASIN

HUAI PHAK AT BAN KARIANG, PHETCHABURI (B.8)

LOCATION	LAT. 12°48'49" N., LONG. 99°41'32" E., ON LEFT BANK AT BAN KARIANG, TAMBON SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	264 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING
INSTRUMENT USED	US.DH - 59
PERIOD OF AVAILABLE RECORDS	1986 TO DATE
ACTUAL MEASUREMENT	1986 TO DATE
REMARKS	CONTINUED SEDIMENT STATION USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN KARIANG, THA YANG, PHETCHABURI, (B.8)
STREAM - HUAI PHAK
RIVER - PHETCHABURI
RIVER SYSTEM - PHETCHABURI RIVER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 130988
1.88618
QS = 0.7006 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.20	0.02	0.01	0.00	0.04	0.08	132.99	0.06	0.02	0.02	
2	0.00	0.00	3.77	0.01	0.01	0.00	0.03	0.06	60.07	0.06	0.02	0.01	
3	0.00	0.00	9.85	0.01	0.00	0.00	2.01	0.05	30.24	0.05	0.02	0.01	
4	0.00	0.00	1.32	0.01	0.01	0.00	0.38	0.05	16.28	0.04	0.02	0.01	
5	0.00	0.00	0.29	0.01	0.01	0.00	0.19	0.19	9.48	0.04	0.02	0.01	
6	0.00	0.00	0.16	0.02	0.01	0.00	0.18	9.13	5.71	0.03	0.02	0.01	
7	0.00	0.00	0.10	0.02	0.00	0.00	0.12	2.94	4.31	0.03	0.02	0.01	
8	0.00	0.00	0.06	0.02	0.00	0.00	0.38	5.29	3.10	0.03	0.02	0.01	
9	0.00	0.00	0.05	0.02	0.00	0.00	1.80	471.42	2.64	0.03	0.02	0.01	
10	0.00	0.00	0.03	0.02	0.00	0.00	1.32	122.92	2.12	0.03	0.02	0.01	
11	0.00	0.00	0.02	0.01	0.00	0.00	0.32	100.60	1.32	0.03	0.02	0.01	
12	0.00	0.00	0.02	0.01	0.00	0.01	0.18	378.97	0.99	0.02	0.02	0.01	
13	0.00	0.03	0.02	0.01	0.00	0.01	0.12	181.45	0.70	0.03	0.02	0.01	
14	0.00	0.03	0.02	0.01	0.00	0.06	0.08	62.88	0.47	0.03	0.02	0.01	
15	0.00	0.03	0.10	0.00	0.00	3.43	0.06	31.97	0.38	0.02	0.02	0.01	
16	0.00	1.70	0.20	0.00	0.00	0.18	0.18	14.58	0.27	0.02	0.02	0.01	
17	0.00	3.26	0.23	0.00	0.00	0.18	0.22	6.81	0.22	0.02	0.02	0.01	
18	0.00	0.32	0.23	0.01	0.00	0.25	0.11	4.13	0.22	0.02	0.02	0.01	
19	0.00	0.14	0.22	0.01	0.00	0.32	0.07	6.51	0.19	0.02	0.02	0.00	
20	0.00	0.10	0.22	0.01	0.00	0.35	0.06	4.50	0.18	0.02	0.02	0.00	
21	0.00	0.10	0.29	0.01	0.00	0.32	0.05	2.94	0.15	0.02	0.02	0.00	
22	0.00	0.12	3.60	0.01	0.00	0.20	0.04	2.01	0.10	0.02	0.02	0.00	
23	0.00	1.31	3.43	0.00	0.00	0.14	0.05	1.32	0.09	0.02	0.01	0.00	
24	0.00	1.60	1.07	0.00	0.00	0.11	0.07	0.91	0.08	0.02	0.01	0.00	
25	0.00	0.27	0.41	0.00	0.00	0.08	0.07	0.44	0.07	0.02	0.01	0.00	
26	0.00	0.32	0.27	0.00	0.00	0.06	0.07	0.10	0.07	0.02	0.02	0.00	
27	0.00	0.16	0.18	0.00	0.00	0.05	0.07	21.88	0.06	0.02	0.01	0.00	
28	0.00	0.11	0.04	0.00	0.00	0.04	0.04	464.96	0.06	0.02	0.01	0.00	
29	0.00	0.70	0.03	0.01	0.00	0.05	0.03	647.33	0.06	0.02	0.01	0.00	
30	0.00	2.24	0.02	0.01	0.00	0.05	0.06	390.75	0.06	0.02		0.00	
31		0.29		0.01	0.00		0.10		0.05	0.02		0.00	
TOTAL	0.00	13.43	26.45	0.28	0.05	5.89	8.50	2937.17	272.73	0.85	0.52	0.19	3266.06 TON
MEAN	0.00	0.43	0.88	0.01	0.00	0.20	0.27	97.91	8.80	0.03	0.02	0.01	
MAX	0.00	3.26	9.85	0.02	0.01	3.43	2.01	647.33	132.99	0.06	0.02	0.02	647.33
MIN	0.00	0.00	0.02	0.00	0.00	0.00	0.03	0.05	0.05	0.02	0.01	0.00	0.00

WATER YEAR 1987

WEST COAST-GULF BASIN

KHLONG BANG SAPHAN YAI AT BAN WANG YAO, PRACHUAP KHIRI KHAN (GT.7)

LOCATION — LAT. 11°-14'-02" N., LONG. 99°-26'-35" E., ON LEFT BANK NEAR THE BRIDGE OF PHET KASEM HIGHWAY AT BAN WANG YAO, TAMBON RON THONG, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 346 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D - 49

PERIOD OF AVAILABLE RECORDS — 1984 TO DATE

ACTUAL MEASUREMENT — 1978 TO DATE

REMARKS — CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1984 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN WANG YAO, BANG SAPHAN, PRACHUAP KHIRI KHAN, (GT.7)
STREAM - KHLONG BANG SAPHAN YAI
RIVER - KHLONG BANG SAPHAN YAI
RIVER SYSTEM - WEST COAST-GULF

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 070988
1.45208
QS = 3.8076 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.01	0.51	5.57	8.23	3.01	5.57	4.37	18.77	1267.54	6.86	3.27	3.27	
2	3.01	0.51	12.76	7.53	3.01	5.57	3.81	29.02	394.72	6.21	3.27	3.01	
3	2.75	4.37	6.21	7.53	3.01	6.21	7.53	30.60	208.74	5.57	3.27	3.01	
4	2.75	3.01	4.96	6.86	3.01	6.86	5.57	77.99	136.79	5.57	3.27	3.01	
5	2.75	3.01	5.57	6.86	3.01	5.57	6.86	4599.93	92.53	5.57	3.27	3.01	
6	2.51	2.75	101.62	7.53	3.81	4.37	4.96	1358.22	62.91	5.57	3.27	3.01	
7	2.51	2.75	11.96	8.23	3.27	3.81	72.66	443.93	47.67	5.57	3.53	3.01	
8	2.51	3.01	6.86	6.86	3.01	3.53	11.96	995.67	38.84	4.96	3.27	3.01	
9	2.51	3.81	4.96	4.96	3.01	3.81	8.94	6748.28	32.20	4.96	3.27	3.01	
10	2.51	4.96	3.81	4.96	2.75	4.96	8.94	6491.58	27.47	4.96	3.53	3.27	
11	2.51	3.53	3.81	4.37	2.75	5.57	11.96	1655.54	21.56	4.96	3.27	3.01	
12	2.27	3.27	3.53	3.81	2.75	8.94	6.86	2030.39	20.15	4.96	3.81	3.01	
13	2.27	3.01	3.53	3.81	2.51	6.86	6.86	1216.61	18.77	4.37	3.81	3.01	
14	2.27	3.01	3.53	3.53	2.51	5.57	6.21	1031.53	16.98	3.81	3.81	2.75	
15	2.04	2.51	11.96	3.53	2.51	4.96	4.96	1371.33	16.11	3.81	3.53	3.01	
16	2.27	2.75	14.40	3.81	2.51	4.96	4.96	580.34	15.25	3.81	3.27	2.75	
17	2.27	3.81	10.42	10.42	1.81	6.86	4.96	349.60	13.58	3.81	3.27	2.27	
18	2.51	6.86	8.94	6.86	2.51	6.86	4.37	229.03	12.76	3.81	20.15	2.04	
19	2.27	3.27	10.42	4.96	3.27	22.99	3.81	193.91	11.96	3.81	8.94	1.60	
20	1.60	3.53	10.42	4.37	3.27	86.62	3.81	552.26	11.18	3.81	5.57	1.39	
21	1.19	3.01	13.58	3.81	3.01	17.87	6.21	295.88	9.67	3.81	4.37	1.19	
22	1.19	8.23	98.56	3.53	4.37	12.76	4.37	159.60	8.94	3.53	3.81	1.39	
23	1.01	7.53	203.76	3.27	9.67	8.94	3.81	111.61	9.67	3.53	3.53	1.19	
24	1.01	6.21	45.86	3.27	7.53	7.53	3.81	89.56	8.94	3.53	3.53	2.75	
25	1.01	3.81	18.77	3.53	6.21	6.86	4.96	155.72	8.23	3.53	3.27	3.01	
26	1.01	3.27	17.87	7.53	4.37	5.57	3.81	101.62	8.23	3.53	3.27	2.51	
27	1.01	5.57	11.18	4.37	3.53	6.21	3.81	70.19	7.53	3.53	3.27	2.27	
28	0.83	6.86	8.94	3.53	3.81	5.57	3.53	80.83	7.53	3.53	3.27	3.27	
29	0.66	3.27	9.67	3.53	6.21	5.57	10.42	60.54	7.53	3.53	3.27	2.75	
30	0.66	3.27	6.86	3.27	4.37	5.57	108.14	712.88	6.86	3.27		3.01	
31		4.37		3.27	8.94		17.87		6.86	3.27		2.51	
TOTAL	58.68	119.64	680.29	161.93	119.32	292.90	365.10	31842.96	2557.70	135.35	124.24	81.31	36539.42 TON
MEAN	1.96	3.86	22.68	5.22	3.85	9.76	11.78	1061.43	82.51	4.37	4.28	2.62	
MAX	3.01	8.23	203.76	10.42	9.67	86.62	108.14	6748.28	1267.54	6.86	20.15	3.27	6748.28
MIN	0.66	0.51	3.53	3.27	1.81	3.53	3.53	18.77	6.86	3.27	3.27	1.19	0.51

WATER YEAR 1987

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.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D - 49

PERIOD OF AVAILABLE RECORDS — 1984 TO DATE

ACTUAL MEASUREMENT — 1978 TO DATE

REMARKS — CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN KAMPHAENG PHET, RATTAPHUM, SONGKHLA, (X.67)
STREAM - KHLONG RATTAPHUM
RIVER - THALE SAP SONGKHLA
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

QS = 2.7516 QW$^{1.28524}$

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.36	0.74	5.61	2.10	1.68	7.14	6.11	25.19	27.64	46.21	10.43	7.54	
2	3.48	1.25	3.70	1.25	5.61	6.62	21.22	21.77	47.08	38.69	13.52	7.54	
3	0.87	3.93	3.04	0.99	3.93	9.58	37.93	31.23	84.64	34.92	11.29	7.54	
4	3.04	3.93	7.94	0.99	2.10	6.88	13.97	37.17	359.43	31.96	13.06	7.54	
5	5.36	3.48	11.29	1.13	7.14	6.36	38.69	25.19	489.12	29.07	13.06	7.54	
6	4.87	1.37	4.16	0.99	11.29	5.86	16.87	18.47	758.18	31.96	10.86	6.88	
7	3.93	0.12	2.27	1.25	6.11	5.36	16.87	15.35	758.18	28.35	13.52	5.86	
8	1.97	1.68	1.13	0.99	5.12	5.36	19.02	18.47	729.75	29.07	18.47	6.11	
9	2.10	2.10	0.99	2.40	2.10	6.11	22.90	49.82	477.99	22.34	13.06	5.61	
10	1.97	2.27	0.99	2.40	1.97	5.61	37.93	47.08	229.06	21.22	10.86	5.61	
11	0.64	1.52	2.27	2.40	2.61	4.63	66.94	29.78	334.40	22.34	16.34	5.12	
12	4.87	1.80	3.26	2.27	3.04	4.16	106.31	21.22	486.34	20.66	13.97	5.12	
13	3.48	0.51	1.52	2.10	1.68	5.86	68.95	19.56	621.93	26.35	11.73	4.87	
14	2.27	2.27	0.99	1.97	0.99	5.36	45.29	14.89	349.25	17.94	8.75	4.63	
15	0.87	2.40	0.74	1.97	0.99	5.36	41.77	21.77	263.96	17.40	7.14	4.63	
16	0.39	3.26	1.80	1.97	2.10	5.12	25.77	108.70	163.93	20.66	8.34	4.63	
17	0.39	5.61	1.52	1.97	49.82	6.11	20.66	57.20	130.50	20.11	12.17	4.40	
18	0.74	6.11	1.80	1.97	108.70	8.34	19.56	44.44	105.04	15.35	11.73	4.40	
19	2.40	2.27	8.75	1.80	42.67	6.11	40.99	29.78	92.44	13.97	10.00	4.16	
20	2.40	0.51	5.86	1.97	14.89	5.86	25.19	25.77	77.15	12.62	10.43	4.16	
21	0.51	1.97	3.70	2.10	8.34	10.00	16.87	20.66	73.03	11.29	10.43	4.16	
22	0.30	1.52	4.16	2.10	13.06	7.94	20.66	17.40	64.93	12.17	11.29	3.48	
23	0.39	0.99	5.61	1.25	12.62	10.86	34.17	19.02	59.00	11.29	8.75	3.48	
24	0.30	0.64	17.94	1.25	8.34	5.86	20.66	40.22	98.03	11.29	8.34	3.26	
25	1.68	2.61	6.88	1.68	5.12	4.16	16.87	26.94	90.13	9.16	8.75	2.40	
26	2.27	9.16	3.70	1.37	6.36	6.36	22.34	19.02	62.94	9.16	8.34	2.40	
27	3.26	3.93	4.16	1.13	15.35	11.29	23.47	20.66	136.19	9.16	7.54	2.27	
28	0.51	1.37	3.70	1.25	15.82	8.34	62.94	20.66	75.09	9.16	7.94	2.10	
29	0.39	2.61	3.70	1.13	26.94	6.62	38.69	15.35	91.28	10.00	7.94	1.68	
30	0.39	2.61	3.70	0.99	15.35	6.36	34.17	13.97	80.28	9.58		0.74	
31		5.36		1.13	10.00		40.99		58.10	10.43		0.00	
TOTAL	61.40	80.50	126.88	50.26	411.84	199.58	1024.77	876.75	7475.01	613.88	318.05	139.86	11378.78 TON
MEAN	2.05	2.60	4.23	1.62	13.29	6.65	33.06	29.23	241.13	19.80	10.97	4.51	
MAX	5.36	9.16	17.94	2.40	108.70	11.29	106.31	108.70	758.18	46.21	18.47	7.54	758.18
MIN	0.30	0.12	0.74	0.99	0.99	4.16	6.11	13.97	27.64	9.16	7.14	0.00	0.00

WATER YEAR 1987

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 FLOOD PLAIN.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.DH- 59

PERIOD OF AVAILABLE RECORDS 1983 TO DATE

ACTUAL MEASUREMENT 1983 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER LQS/LQS02D/12

STATION - BAN THA KHAE, MUANG, PHATTHALUNG, (X.68)
STREAM - KHLONG THA KHAE
RIVER - KHLONG THA KHAE
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
2.07584
QS = 0.9079 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.78	0.89	11.10	0.31	0.40	1.44	4.15	29.63	21.57	45.20	15.31	0.89	
2	2.97	0.25	20.61	1.28	22.55	2.14	2.35	13.73	208.14	36.29	4.93	0.89	
3	2.97	3.22	2.14	0.40	2.54	2.14	2.35	16.99	198.49	45.20	9.89	0.57	
4	1.00	1.15	2.35	0.25	1.77	1.44	1.28	16.99	72.88	34.90	4.93	0.57	
5	1.00	1.15	8.22	0.78	1.28	0.89	6.24	9.89	75.28	36.29	4.15	0.66	
6	0.66	1.28	11.73	0.57	1.96	1.28	2.54	8.22	1537.89	33.54	10.49	0.78	
7	1.77	1.44	5.78	0.25	4.53	0.66	2.77	22.55	1087.06	37.70	27.16	0.78	
8	2.97	1.15	6.70	0.31	1.62	2.14	3.22	43.65	170.96	24.80	29.63	0.89	
9	2.54	1.15	5.78	0.78	0.66	13.04	4.93	37.70	112.19	36.29	15.31	0.89	
10	2.77	0.31	5.35	0.20	0.40	6.24	17.86	21.57	82.33	36.29	9.32	0.89	
11	1.62	1.00	4.15	0.22	9.32	3.22	11.73	18.75	66.28	48.40	11.73	0.89	
12	2.35	0.28	1.62	0.17	1.44	19.67	8.22	18.75	127.57	39.15	7.19	0.66	
13	2.35	0.22	1.44	0.07	1.00	16.14	18.75	11.10	374.76	52.02	5.35	0.47	
14	1.62	0.17	0.57	0.13	0.47	10.49	16.14	7.19	143.98	66.28	4.15	0.47	
15	0.89	0.31	0.25	0.07	0.20	33.54	4.93	7.19	95.08	43.65	3.79	0.57	
16	1.77	0.28	0.20	0.07	53.88	9.89	8.22	87.28	72.88	43.65	9.89	0.47	
17	1.00	1.62	0.47	0.13	109.24	7.19	4.53	50.04	57.87	30.90	9.89	0.47	
18	0.40	1.77	0.89	0.11	198.49	6.70	1.96	62.00	55.94	25.96	17.86	0.40	
19	0.47	1.77	1.96	0.17	52.02	2.54	5.35	34.90	55.94	18.75	4.93	0.40	
20	1.00	0.89	2.97	8.76	39.15	1.44	3.79	23.66	43.65	17.86	3.44	0.31	
21	1.00	0.40	3.22	0.66	15.31	1.96	2.54	13.73	36.29	22.55	2.77	0.25	
22	1.28	0.17	0.78	4.53	12.38	1.77	53.88	9.89	33.54	34.90	2.14	0.28	
23	1.44	0.40	5.78	9.32	11.73	0.47	5.78	16.14	37.70	32.21	1.77	0.25	
24	1.96	0.31	2.77	1.77	11.73	1.62	3.44	18.75	70.71	30.90	2.35	0.22	
25	0.25	0.22	2.77	1.28	3.79	1.44	17.86	7.70	52.02	9.32	2.35	0.20	
26	0.40	0.78	1.28	1.28	9.32	10.49	33.54	4.93	50.04	15.31	2.35	0.22	
27	1.77	0.28	1.44	1.28	8.76	5.35	17.86	5.78	40.62	34.90	1.77	0.17	
28	0.57	0.20	1.96	1.00	7.19	4.53	22.55	3.79	43.65	30.90	1.28	0.17	
29	0.28	0.57	2.35	0.57	6.70	1.96	18.75	4.15	50.04	20.61	1.15	1.28	
30	0.57	11.10	0.57	0.47	3.22	8.22	115.19	2.97	46.79	29.63		0.17	
31		3.22		0.22	1.77		48.40		48.40	20.61		1.00	
TOTAL	47.42	37.95	117.20	37.41	594.82	180.04	471.10	629.61	5170.54	1034.96	227.27	17.13	8565.45 TON
MEAN	1.58	1.22	3.91	1.21	19.19	6.00	15.20	20.99	166.79	33.39	7.84	0.55	
MAX	5.78	11.10	20.61	9.32	198.49	33.54	115.19	87.28	1537.89	66.28	29.63	1.28	1537.89
MIN	0.25	0.17	0.20	0.07	0.20	0.47	1.28	2.97	21.57	9.32	1.15	0.17	0.07

WATER YEAR 1987

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 ON HIGHWAY AND NEAR THE PHATTHANA TAMBON STREET, AMPHOE HAT YAI, SONGKHLA.

DRAINAGE AREA — 1,562 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.DH- 59

PERIOD OF AVAILABLE RECORDS — 1982 TO DATE

ACTUAL MEASUREMENT — 1982 TO DATE

REMARKS — CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN BANG SALA, HAT YAI, SONGKHLA, (X.90)
STREAM - KHLONG U TAPHAO
RIVER - KHLONG U TAPHAO
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.09809
QS = 3.0871 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.09	3.43	14.93	10.47	2.09	29.04	152.46	272.92	222.38	106.30	17.20	6.79	
2	2.92	3.09	19.19	9.26	2.42	24.23	169.55	216.57	211.37	95.88	16.22	6.61	
3	2.75	2.75	21.88	8.67	5.00	20.87	179.27	195.90	228.34	85.56	15.24	6.25	
4	2.92	2.42	23.22	7.34	5.00	18.55	201.01	211.37	378.34	78.39	14.26	6.07	
5	3.60	2.25	30.78	6.61	6.97	17.56	206.19	274.14	758.27	70.82	13.64	5.71	
6	3.26	2.25	42.96	5.71	7.15	19.55	178.29	291.19	1074.75	65.81	16.22	5.71	
7	2.42	2.42	42.96	5.00	11.38	20.87	147.00	253.56	1435.24	62.08	20.87	5.53	
8	2.58	2.92	35.65	4.47	11.07	19.55	121.03	202.05	1754.45	55.11	23.58	5.35	
9	2.42	3.43	29.04	4.12	9.26	18.55	109.09	189.03	1799.30	50.92	20.87	5.71	
10	2.75	4.12	22.57	4.12	12.68	25.95	104.90	190.99	1830.46	48.31	18.19	5.89	
11	3.09	5.89	14.61	3.94	15.90	33.37	111.89	185.12	2551.00	45.54	16.89	5.89	
12	3.60	7.52	10.47	3.26	12.03	35.27	126.07	183.17	1861.66	42.96	16.57	7.52	
13	5.35	6.97	7.89	3.09	15.24	35.65	126.83	189.03	1531.75	40.82	15.24	6.43	
14	7.70	5.89	6.97	2.92	15.59	36.79	114.69	205.15	1242.83	38.69	13.64	5.89	
15	7.34	4.82	6.07	2.25	12.03	37.17	109.79	208.26	1047.34	36.79	12.99	5.71	
16	7.34	4.47	5.89	2.09	15.90	39.97	105.60	219.99	857.03	34.13	11.72	5.17	
17	5.71	4.47	5.53	2.09	22.89	42.11	100.73	234.33	712.61	32.62	11.07	4.82	
18	4.12	5.71	5.35	2.09	35.27	47.79	95.88	230.74	612.03	30.78	10.47	4.64	
19	3.77	6.07	5.00	2.25	61.46	61.46	86.93	248.74	509.00	29.37	9.86	4.29	
20	3.26	5.00	7.15	2.09	64.56	79.02	86.93	271.71	418.84	28.34	8.96	4.29	
21	2.92	4.64	11.72	1.92	59.60	102.81	88.99	262.01	340.18	27.68	8.37	4.29	
22	2.92	4.47	16.22	1.76	56.69	113.99	86.93	233.13	293.63	25.95	7.89	4.82	
23	2.75	5.17	24.60	1.76	49.87	99.34	99.34	211.37	242.72	24.60	8.67	4.29	
24	2.75	5.17	33.00	2.09	42.53	91.74	115.40	210.34	218.80	23.58	8.07	3.94	
25	2.92	4.64	24.93	2.42	37.17	88.99	137.45	214.49	199.98	22.57	8.07	3.94	
26	2.92	4.47	23.58	2.25	38.31	88.99	161.80	204.12	184.14	21.88	7.89	3.77	
27	3.26	5.53	20.55	2.09	36.03	90.37	180.24	186.10	175.37	20.87	7.70	3.43	
28	3.26	7.34	17.88	2.42	39.54	100.73	229.54	190.01	163.74	20.19	7.34	3.26	
29	3.60	7.15	16.57	2.75	41.68	114.69	319.60	229.54	147.00	20.87	6.97	3.26	
30	3.77	7.52	12.68	2.42	40.40	132.89	353.62	239.12	132.89	19.87		3.09	
31		10.77		2.09	34.89		328.59		116.80	18.55		2.92	
TOTAL	111.06	152.76	559.84	115.81	820.60	1687.86	4735.63	6654.19	23252.24	1325.83	374.67	155.28	39945.77 TON
MEAN	3.70	4.93	18.66	3.74	26.47	56.26	152.76	221.81	750.07	42.77	12.92	5.01	
MAX	7.70	10.77	42.96	10.47	64.56	132.89	353.62	291.19	2551.00	106.30	23.58	7.52	2551.00
MIN	2.42	2.25	5.00	1.76	2.09	17.56	86.93	183.17	116.80	18.55	6.97	2.92	1.76

WATER YEAR 1987

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.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D - 49

PERIOD OF AVAILABLE RECORDS 1984 TO DATE

ACTUAL MEASUREMENT 1978 TO DATE

REMARKS CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER LQS/LQS02D/12

STATION - BAN RIM KHLONG, CHAIYA, SURAT THANI, (X.103)
STREAM - KHLONG TAKHIAN
RIVER - KHLONG TAKHIAN
RIVER SYSTEM - PININSULA-EAST-COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.36476
QS = 1.6339 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.29	1.44	2.59	0.78	1.00	1.31	21.46	66.89	5.06	1.84	0.47	
2	0.41	0.44	2.49	2.39	0.83	0.95	1.12	17.70	251.51	4.88	1.63	0.44	
3	0.41	0.52	11.96	2.17	1.25	0.83	1.06	14.61	198.41	4.56	1.57	0.44	
4	0.41	0.44	9.56	1.93	0.83	0.78	1.06	13.70	88.72	4.24	1.50	0.41	
5	0.37	0.47	7.75	1.84	0.67	0.67	1.12	13.70	59.72	4.09	1.44	0.41	
6	0.37	0.44	7.32	1.63	0.62	0.67	5.74	11.96	51.32	10.03	1.37	0.37	
7	0.37	0.62	13.11	1.57	0.62	0.57	6.60	12.53	47.43	12.53	1.31	0.37	
8	0.37	0.95	13.70	1.50	0.62	0.52	4.88	19.02	40.45	11.25	1.25	0.35	
9	0.35	3.81	10.76	1.37	0.62	0.52	5.06	27.20	35.79	8.44	1.18	0.35	
10	0.37	5.89	8.65	1.25	0.62	0.52	3.81	33.32	31.54	6.43	1.12	0.35	
11	0.35	4.09	7.15	1.12	0.62	0.52	3.43	29.78	28.48	5.21	1.06	0.35	
12	0.35	2.84	6.08	1.00	0.57	0.47	3.29	30.22	25.93	5.06	1.00	0.32	
13	0.35	2.26	5.55	1.00	0.57	0.44	3.29	33.77	24.72	4.41	0.95	0.32	
14	0.35	1.84	5.06	0.89	0.57	0.44	3.18	26.35	23.26	3.92	0.95	0.32	
15	0.32	1.57	4.73	0.83	0.52	0.44	2.84	21.82	22.90	3.81	0.89	0.32	
16	0.32	1.37	4.41	0.78	0.57	0.44	2.49	20.41	19.71	3.67	0.83	0.29	
17	0.32	1.18	4.09	0.78	0.62	0.47	2.26	18.67	17.70	3.56	0.83	0.29	
18	0.35	1.18	3.92	0.72	1.06	1.37	2.05	21.11	16.45	5.06	0.78	0.26	
19	0.37	1.31	3.81	0.67	1.25	1.93	1.84	17.03	15.22	5.21	0.72	0.26	
20	0.37	1.25	3.56	0.57	1.31	2.39	1.63	19.02	13.70	4.41	0.72	0.26	
21	0.37	1.18	3.18	0.57	1.18	1.84	1.57	16.74	12.27	3.67	0.72	0.26	
22	0.37	1.18	3.43	0.52	1.18	1.44	1.50	17.36	11.25	3.29	0.67	0.23	
23	0.35	1.12	3.92	0.52	1.25	1.18	1.44	14.61	10.29	3.08	0.67	0.23	
24	0.35	1.31	4.88	0.47	1.31	1.12	1.37	13.70	9.56	2.84	0.62	0.23	
25	0.32	1.12	4.88	0.57	1.44	1.50	1.31	18.67	8.89	2.59	0.57	0.26	
26	0.32	1.12	4.88	0.72	1.44	1.50	2.26	16.74	8.20	2.39	0.57	0.26	
27	0.32	1.37	3.67	0.57	1.31	1.37	4.73	15.83	7.32	2.26	0.52	0.26	
28	0.32	1.25	3.18	0.57	1.31	1.57	9.81	13.70	6.95	2.17	0.52	0.26	
29	0.29	1.18	3.08	0.52	1.44	1.63	35.29	19.71	6.43	2.26	0.47	0.23	
30	0.29	1.31	2.84	0.83	1.31	1.50	46.34	14.61	5.89	2.05		0.23	
31		1.50		0.78	1.12		28.48		5.55	1.93		0.23	
TOTAL	10.62	46.40	173.04	33.24	29.41	30.59	192.16	585.05	1172.45	144.36	28.27	9.63	2455.22 TON
MEAN	0.35	1.50	5.77	1.07	0.95	1.02	6.20	19.50	37.82	4.66	0.97	0.31	
MAX	0.44	5.89	13.70	2.59	1.44	2.39	46.34	33.77	251.51	12.53	1.84	0.47	251.51
MIN	0.29	0.29	1.44	0.47	0.52	0.44	1.06	11.96	5.55	1.93	0.47	0.23	0.23

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG SADAO AT BAN PHRAI, SONGKHLA (X.111)

LOCATION LAT. 6°-39'-37" N., LONG. 100°-26'-09" E., ON LEFT BANK AT BAN PHRAI, AMPHOE SADAO, SONGKHLA.

DRAINAGE AREA 256 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.DH- 59

PERIOD OF AVAILABLE RECORDS 1980 TO DATE

ACTUAL MEASUREMENT 1980 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1980 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN PHRAI, SADAO, SONGKHLA, (X.111)
STREAM - KHLONG SADAO
RIVER - KHLONG LAM
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.24699
QS = 3.2266 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.29	1.29	1.85	1.57	1.16	2.83	24.49	40.73	59.98	16.49	2.99	2.07	
2	1.29	1.16	2.83	1.50	1.16	2.52	23.41	51.28	84.84	14.73	2.99	2.07	
3	1.29	1.03	3.47	1.43	1.36	3.07	24.31	72.57	69.16	13.76	2.83	2.07	
4	1.23	1.03	4.30	1.43	1.92	3.88	19.78	62.43	126.70	12.70	6.02	2.07	
5	1.16	1.03	8.77	1.29	3.55	5.62	18.18	48.38	287.53	12.07	3.88	1.99	
6	1.16	1.43	11.13	1.23	2.44	3.07	49.00	32.73	196.17	11.29	4.22	1.99	
7	0.97	1.23	3.15	1.23	1.99	2.67	42.74	25.09	182.74	10.52	5.71	2.07	
8	1.03	1.09	2.22	1.16	3.88	6.62	40.33	49.55	678.38	9.76	5.35	2.07	
9	0.90	2.67	1.92	1.16	2.44	24.79	77.30	152.31	357.21	9.12	6.35	2.14	
10	1.03	3.80	1.78	1.09	1.99	19.20	74.29	93.77	205.20	8.53	4.30	2.37	
11	1.29	2.14	1.57	1.09	1.71	11.81	51.28	76.01	422.71	8.04	3.47	2.37	
12	4.56	2.14	1.43	1.03	1.57	28.08	60.77	79.79	322.00	7.56	3.47	2.22	
13	2.22	1.85	1.99	0.97	1.57	36.98	59.12	72.57	191.64	7.09	3.07	2.07	
14	1.85	1.71	1.16	0.90	3.39	19.89	57.27	59.12	138.46	6.62	2.83	1.99	
15	1.50	1.43	1.16	0.90	5.08	13.49	40.73	47.83	131.38	6.25	2.67	1.92	
16	1.43	3.23	1.03	1.03	5.53	11.39	25.09	131.38	106.08	5.80	2.67	1.92	
17	1.43	2.29	1.03	0.90	45.98	15.28	20.64	152.31	86.07	5.44	2.67	1.85	
18	1.43	1.99	1.16	0.84	53.66	18.92	16.77	89.94	76.01	5.17	2.67	1.85	
19	1.29	1.78	1.23	0.90	30.51	16.38	16.94	69.16	64.10	4.73	2.67	1.78	
20	1.23	1.78	2.52	0.78	14.57	53.10	25.21	74.29	54.86	4.73	2.60	1.71	
21	1.23	2.29	2.07	1.85	4.05	191.64	54.29	74.29	46.39	4.48	2.60	1.85	
22	1.16	1.92	1.99	1.29	9.36	87.38	140.83	58.55	39.14	4.30	2.52	1.85	
23	1.16	1.71	5.35	1.16	11.81	47.83	97.71	45.57	33.75	4.05	2.44	1.71	
24	1.16	1.57	6.62	1.16	5.80	27.84	95.10	124.37	30.51	3.97	2.37	1.71	
25	1.23	1.64	2.52	1.29	4.22	21.05	103.83	178.37	27.65	3.88	2.37	1.71	
26	1.29	2.67	2.14	1.29	4.05	60.77	110.60	101.60	25.21	3.72	2.37	1.71	
27	2.29	2.07	2.14	1.16	6.35	200.63	101.60	73.46	24.19	4.13	2.29	1.64	
28	1.92	2.14	1.99	1.16	6.62	97.71	91.19	53.10	23.41	3.63	2.22	1.64	
29	1.43	2.99	1.85	1.29	6.25	59.12	74.29	57.27	21.64	3.47	2.07	1.57	
30	1.23	2.60	1.78	1.29	4.73	34.84	59.98	56.06	20.47	3.31		1.57	
31		2.07		1.16	3.39		50.73		17.61	3.23		3.15	
TOTAL	43.68	59.77	84.15	36.53	252.09	1128.40	1747.80	2303.88	4151.19	222.57	94.68	60.70	10185.44 TON
MEAN	1.46	1.93	2.81	1.18	8.13	37.61	56.38	76.80	133.91	7.18	3.26	1.96	
MAX	4.56	3.80	11.13	1.85	53.66	200.63	140.83	178.37	678.38	16.49	6.35	3.15	678.38
MIN	0.90	1.03	1.03	0.78	1.16	2.52	16.77	25.09	17.61	3.23	2.07	1.57	0.78

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KOLOK RIVER AT SUNGAI KOLOK, NARATHIWAT (X.119)

LOCATION — LAT. 6°-04'-09" N., LONG. 102°-02'-22" E., ON LEFT BANK NEAR THE MUNO SCHOOL, TAMBON MUNO, AMPHOE SUNGAI KOLOK, NARATHIWAT.

DRAINAGE AREA — 1,600 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D - 49

PERIOD OF AVAILABLE RECORDS — 1981 TO DATE

ACTUAL MEASUREMENT — 1981 TO DATE

REMARKS — CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - SUNGAI KOLOK, SUNGAI KOLOK, NARATHIWAT, (X.119)
STREAM - KOLOK
RIVER - KOLOK
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 130988
1.63996
QS = 0.3329 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE.	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	27.03	16.99	34.69	231.21	221.82	137.67	194.56	499.95	634.19	870.46	144.62	74.08	
2	26.12	16.99	34.69	197.52	240.76	139.97	180.02	326.03	655.12	665.69	133.12	40.91	
3	23.48	16.99	35.70	160.42	395.66	105.00	221.82	270.29	1477.73	523.87	137.67	34.69	
4	21.78	32.70	36.72	133.12	458.01	124.19	253.72	234.38	3122.08	421.95	124.19	43.08	
5	19.59	128.62	36.72	111.26	395.66	218.72	283.85	212.58	3496.53	391.35	105.00	55.13	
6	19.59	177.17	72.28	85.18	439.84	194.56	270.29	182.89	3425.94	333.28	90.95	59.40	
7	18.27	212.58	87.09	81.41	593.12	149.61	212.58	157.69	3300.30	280.43	224.93	59.40	
8	16.99	374.27	89.01	70.51	804.96	137.67	215.64	163.16	3468.22	224.93	404.35	96.88	
9	27.03	361.65	160.42	70.51	737.07	149.61	458.01	250.46	3355.91	191.61	444.35	294.18	
10	31.73	395.66	203.49	60.86	798.70	152.29	495.22	308.18	3095.01	185.78	283.85	391.35	
11	31.73	458.01	177.17	27.03	712.96	152.29	568.00	247.21	2777.34	197.52	194.56	553.14	
12	40.91	370.04	128.62	11.13	689.17	135.39	583.03	218.72	2881.73	197.52	144.62	318.84	
13	57.97	374.27	96.88	10.08	639.40	126.40	603.29	270.29	3000.97	180.02	119.82	224.93	
14	55.13	200.49	174.33	10.08	523.87	105.00	927.66	345.09	3027.72	168.71	102.94	191.61	
15	47.53	130.86	130.86	12.22	514.25	96.88	978.87	365.84	2987.63	215.64	87.09	160.42	
16	24.35	75.88	60.86	12.22	374.27	98.88	639.40	509.47	2908.07	203.49	62.32	174.33	
17	22.62	74.08	49.82	12.79	290.72	165.93	476.48	660.40	2726.63	177.17	60.86	111.26	
18	19.59	85.18	29.81	16.99	243.98	336.93	395.66	538.42	2445.90	149.61	53.74	60.86	
19	16.99	124.19	27.94	18.27	194.56	538.42	430.86	370.04	2144.50	135.39	52.35	70.51	
20	15.74	177.17	27.94	23.48	253.72	476.48	523.87	270.29	1807.64	133.12	60.86	59.40	
21	14.53	270.29	45.28	146.96	543.31	341.00	341.00	237.56	1512.62	113.37	68.75	53.74	
22	14.53	177.17	74.08	149.61	458.01	277.04	273.66	257.00	1226.38	105.00	75.88	49.82	
23	13.94	124.19	70.51	130.86	333.28	218.72	206.50	237.56	942.18	102.94	122.00	45.28	
24	18.93	98.88	55.13	182.89	231.21	177.17	154.98	345.09	767.64	98.88	165.93	44.17	
25	19.59	63.80	79.55	215.64	234.38	142.29	171.51	370.04	629.00	94.89	453.44	41.99	
26	19.59	48.67	124.19	177.17	257.00	126.40	177.17	448.89	553.14	115.51	439.84	38.79	
27	19.59	43.08	142.29	122.00	194.56	139.97	212.58	426.39	823.88	157.69	280.43	38.79	
28	18.27	41.99	188.69	163.16	182.89	237.56	294.18	349.21	1061.49	224.93	152.29	37.75	
29	16.99	37.75	260.30	197.52	154.98	260.30	603.29	311.72	1186.28	361.65	105.00	35.70	
30	16.99	37.75	257.00	221.82	133.12	234.38	898.88	439.84	1226.38	287.27		33.69	
31		34.69		188.69	128.62		724.98		1061.49	191.61		32.70	
TOTAL	737.12	4782.05	2992.06	3252.61	12373.86	5896.72	12971.56	9824.68	63729.63	7701.28	4895.75	3526.82	132684.14 TON
MEAN	24.57	154.26	99.74	104.92	399.16	196.56	418.44	327.49	2055.79	248.43	168.82	113.77	
MAX	57.97	458.01	260.30	231.21	804.96	538.42	978.87	660.40	3496.53	870.46	453.44	553.14	3496.53
MIN	13.94	16.99	27.94	10.08	128.62	96.88	154.98	157.69	553.14	94.89	52.35	32.70	10.08

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG WAENG AT WAENG, NARATHIWAT (X.121)

LOCATION	LAT. 5°-55'-26" N., LONG. 101°-53'-14" E., ON RIGHT BANK AT THE BRIDGE OF SUNGAI KOLOK -MALASIA HIGHWAY, AMPHOE WAENG, NARATHIWAT.
DRAINAGE AREA	43 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING
INSTRUMENT USED	U.S.D - 49
PERIOD OF AVAILABLE RECORDS	1985 TO DATE
ACTUAL MEASUREMENT	1985 TO DATE
REMARKS	CONTINUED SEDIMENT STATION USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - WAENG, WAENG, NARATHIWAT, (X.121)
STREAM - KHLONG WAENG
RIVER - KOLOK
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.34166
QS = 2.2720 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.30	0.85	0.99	3.91	8.31	10.95	4.78	11.27	17.50	11.27	7.07	5.30	
2	0.99	0.99	0.99	3.30	6.42	6.15	4.56	10.28	40.76	9.61	8.91	5.30	
3	0.85	0.85	0.92	2.90	7.07	4.78	4.34	9.61	257.30	8.61	10.59	4.78	
4	0.85	6.74	0.92	2.52	6.15	8.31	6.15	8.91	263.12	8.91	7.68	4.78	
5	0.71	2.71	5.57	2.33	5.00	5.30	6.74	7.98	76.64	8.61	6.74	4.78	
6	0.58	2.71	5.00	1.80	46.51	4.34	5.87	5.87	55.81	8.31	7.07	3.50	
7	1.30	2.90	4.13	1.80	17.50	4.13	4.56	5.30	343.93	7.35	9.61	5.30	
8	0.92	9.26	9.61	1.63	0.00	3.91	9.61	11.69	147.23	7.35	6.42	23.58	
9	3.50	12.48	6.74	1.30	14.11	4.13	7.07	9.61	74.63	6.15	5.00	10.95	
10	1.30	7.68	3.91	1.14	9.26	4.56	5.30	6.42	81.76	6.42	4.34	17.04	
11	1.30	4.78	2.90	1.07	8.91	4.34	4.78	7.35	116.05	5.57	3.91	9.92	
12	7.68	3.50	2.15	0.92	27.13	3.71	4.13	15.78	128.16	6.74	3.50	7.07	
13	2.90	3.10	1.97	0.85	15.33	3.71	48.76	9.61	174.91	6.42	3.10	5.30	
14	1.80	2.52	1.46	0.78	15.33	3.50	21.61	8.61	205.97	10.59	3.10	4.56	
15	1.07	2.90	2.33	1.07	7.98	3.50	10.95	7.07	121.40	10.95	3.10	3.91	
16	1.63	2.15	2.33	0.85	9.61	3.91	7.98	20.64	59.91	8.61	3.10	3.50	
17	0.99	2.33	1.63	0.85	6.74	4.56	6.42	21.61	44.29	6.74	3.10	2.90	
18	2.15	6.15	1.46	0.85	7.07	15.78	21.13	12.86	36.37	6.15	3.10	3.50	
19	1.97	5.57	1.63	1.97	7.35	10.59	64.15	9.61	29.21	5.30	3.10	3.30	
20	1.07	5.30	1.63	13.29	57.40	7.07	20.16	7.68	30.33	5.30	2.90	2.90	
21	0.99	3.30	2.33	4.78	17.50	5.57	26.10	9.26	21.13	4.78	2.52	2.90	
22	0.78	2.52	3.10	3.50	10.95	5.87	17.04	10.95	16.64	4.34	3.50	2.90	
23	0.92	2.15	1.80	3.50	8.31	4.13	21.61	20.16	14.50	4.13	2.90	3.10	
24	0.85	1.97	1.97	12.48	7.98	3.91	11.27	14.11	12.06	3.71	156.11	2.90	
25	0.78	1.63	1.63	5.87	12.06	3.71	9.61	17.04	11.27	4.13	22.59	2.90	
26	0.92	1.46	3.71	5.00	7.35	4.78	8.31	12.06	18.79	7.68	13.29	2.90	
27	0.85	1.46	4.13	5.57	8.91	8.61	10.59	10.28	25.09	8.91	10.28	2.33	
28	0.71	1.63	7.98	8.61	5.30	10.95	20.64	8.61	35.75	37.61	7.98	1.97	
29	0.71	1.63	4.78	14.94	4.56	7.35	65.01	7.98	26.10	13.29	6.74	1.97	
30	0.78	1.30	3.91	6.74	3.91	5.00	21.61	54.23	19.21	9.26		1.97	
31		0.92		6.15	14.94		15.33		14.11	7.68		1.97	
TOTAL	43.15	105.44	93.61	122.27	384.95	177.11	496.17	372.44	2519.93	260.48	331.35	159.78	5066.68 TON
MEAN	1.44	3.40	3.12	3.94	12.42	5.90	16.01	12.41	81.29	8.40	11.43	5.15	
MAX	7.68	12.48	9.61	14.94	57.40	15.78	65.01	54.23	343.93	37.61	156.11	23.58	343.93
MIN	0.58	0.85	0.92	0.78	0.00	3.50	4.13	5.30	11.27	3.71	2.52	1.97	0.00

WATER YEAR 1987

SOUTHERN PENINSULA EAST COAST

KHLONG THA MA DUA AT BAN KHLONG AI TO, PHATTHALUNG (X.129)

LOCATION	LAT. 07°-23'-19" N., LONG. 100°-06'-44" N., ON RIGHT BANK NEAR WAT BAN AI TO, BAN KHLONG AI TO, AMPHOE KHAO CHAI SON, PHATTHALUNG.
DRAINAGE AREA	232 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING
INSTRUMENT USED	US.DH - 59
PERIOD OF AVAILABLE RECORDS	1982 TO DATE
ACTUAL MEASUREMENT	1983 TO DATE
REMARKS	CONTINUED SEDIMENT STATION
	USING RATING CURVE WATER YEAR 1983 - 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN KHLONG AI TO, KHAO CHAI SON, PHATTHALUNG, (X.129)
STREAM - KHLONG THA MA DUA
RIVER - THALE LUANG
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 090189
1.51316
QS = 1.3348 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.73	1.89	6.17	0.92	1.89	1.38	1.22	4.71	17.37	65.69	18.00	14.19	
2	7.43	1.89	17.37	0.66	1.89	1.38	1.22	3.75	228.44	51.65	16.70	13.00	
3	7.11	1.71	8.73	0.66	1.54	1.38	1.22	3.30	1358.50	41.42	16.70	12.43	
4	7.11	1.71	5.87	1.22	1.22	1.22	1.06	2.47	1476.49	38.22	18.00	11.88	
5	6.17	1.54	5.28	1.22	1.22	1.89	2.08	1.71	1775.94	30.22	17.37	12.43	
6	2.27	1.54	4.22	0.92	1.22	1.54	6.17	1.22	3662.40	25.75	80.36	13.00	
7	2.08	1.38	3.09	0.78	1.22	1.22	4.99	1.22	3769.49	23.52	38.22	13.00	
8	2.67	1.38	2.47	0.78	1.06	1.22	5.28	1.22	2117.40	20.03	45.77	23.52	
9	3.09	1.38	7.11	0.66	1.06	1.22	8.73	5.28	816.68	17.37	37.22	20.03	
10	5.57	1.38	11.33	0.78	1.22	1.22	5.57	16.08	416.52	16.08	27.42	15.43	
11	5.28	1.22	2.87	0.78	1.38	1.22	13.00	9.23	274.11	20.70	25.75	13.61	
12	6.17	1.22	2.47	0.78	1.22	1.22	17.37	4.71	427.19	18.00	22.09	13.00	
13	4.46	1.22	2.27	0.78	1.22	1.22	19.33	2.27	2117.40	34.14	20.70	9.74	
14	3.98	1.38	2.27	0.78	1.22	1.22	28.32	1.54	1627.58	34.14	18.68	11.33	
15	3.53	1.22	2.08	0.78	1.38	1.22	13.61	1.54	692.86	32.16	18.68	10.26	
16	5.28	1.22	2.87	0.78	1.89	3.98	7.76	45.77	378.19	26.47	46.84	9.74	
17	3.75	1.22	13.61	0.78	137.28	1.89	4.71	14.83	200.52	23.52	22.83	8.73	
18	4.46	1.38	7.11	0.78	218.12	2.27	2.27	16.08	146.22	22.09	28.32	8.24	
19	4.71	1.38	9.23	0.78	63.06	1.71	1.38	9.23	111.90	20.70	20.70	7.11	
20	4.71	1.38	3.98	0.92	34.14	1.71	1.22	7.43	85.27	18.00	19.33	5.87	
21	4.71	1.38	11.88	0.92	22.83	2.47	1.22	18.68	75.54	18.00	18.68	4.99	
22	4.46	1.38	18.00	0.92	30.22	2.08	1.06	13.00	86.93	23.52	18.00	4.71	
23	3.09	1.38	16.70	1.06	24.27	1.22	0.92	7.43	164.46	24.27	17.37	4.22	
24	3.09	1.38	9.74	1.06	18.68	1.22	0.92	5.57	296.53	18.68	16.08	3.98	
25	1.89	1.22	2.67	1.06	24.98	1.22	0.92	4.71	308.60	17.37	16.70	3.09	
26	1.54	3.98	2.08	1.54	18.68	1.22	0.92	4.71	159.73	18.00	19.33	2.87	
27	7.76	5.57	1.71	1.54	13.61	1.22	5.28	1.89	118.13	18.00	18.00	3.09	
28	2.67	2.27	1.22	1.54	8.24	1.22	7.43	2.47	111.90	21.42	16.08	2.47	
29	2.27	1.89	1.06	1.54	2.87	1.22	10.26	1.54	146.22	27.42	16.08	1.54	
30	2.08	20.70	0.92	1.54	1.71	1.22	3.75	1.54	122.31	22.09		1.22	
31		7.11		1.71	1.54		6.79		83.62	20.03		1.22	
TOTAL	132.12	76.90	186.38	30.97	642.08	45.64	185.98	215.13	23374.44	808.67	716.00	279.94	26694.25 TON
MEAN	4.40	2.48	6.21	1.00	20.71	1.52	6.00	7.17	754.01	26.09	24.69	9.03	
MAX	8.73	20.70	18.00	1.71	218.12	3.98	28.32	45.77	3769.49	65.69	80.36	23.52	3769.49
MIN	1.54	1.22	0.92	0.66	1.06	1.22	0.92	1.22	17.37	16.08	16.08	1.22	0.66

WATER YEAR 1987

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 FROM HUAI YOT-KRABI HIGHWAY, AND ABOUT 16 KILOMETERS FROM AMPHOE HUAI YOT, TRANG.

DRAINAGE AREA — 1,301 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D - 49

PERIOD OF AVAILABLE RECORDS — 1985 TO DATE

ACTUAL MEASUREMENT — 1985 TO DATE

REMARKS — CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN THA PRADU, HUAI YOT, TRANG, (X.56)
STREAM - TRANG
RIVER - TRANG
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION 130988
1.60991
QS = 3.0379 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	38.0	27.8	135.1	109.7	49.2	1151.4	1541.3	4080.3	2837.9	862.3	212.2	88.1	
2	38.0	34.9	199.2	100.7	45.9	880.7	1989.5	4406.4	5129.0	790.3	194.9	85.7	
3	44.3	106.7	148.5	122.1	52.6	682.7	1810.6	3161.8	8130.8	714.9	190.6	80.9	
4	38.0	194.9	304.6	106.7	60.6	731.3	1229.8	2896.9	9915.8	651.0	178.1	78.5	
5	32.0	109.7	479.6	90.6	90.6	817.0	1036.3	2438.2	10401.4	577.9	170.0	73.9	
6	42.6	71.6	965.5	85.7	221.1	635.4	2779.4	1752.6	11885.7	544.4	165.9	71.6	
7	45.9	54.4	756.0	78.5	216.6	511.6	4006.4	1334.1	18662.7	524.6	230.1	71.6	
8	41.1	69.4	544.4	69.4	221.1	492.3	3908.7	1195.7	26749.4	505.1	288.8	71.6	
9	39.5	90.6	394.2	62.8	230.1	531.2	2798.9	1264.2	35964.1	473.3	263.2	67.1	
10	39.5	243.8	365.3	56.4	764.4	454.6	2364.7	1653.1	40247.6	448.4	207.8	64.9	
11	32.0	234.6	263.2	52.6	1899.0	436.1	4902.2	1723.9	34560.4	436.1	174.0	67.1	
12	58.5	109.7	203.5	49.2	1555.3	498.7	5535.0	1473.5	29330.8	485.9	158.9	64.9	
13	64.9	76.2	155.4	45.9	584.7	946.1	6171.1	1264.2	24385.7	511.6	148.5	64.9	
14	50.9	60.6	131.8	44.3	651.0	1393.4	5833.1	1610.8	22503.5	492.3	145.1	62.8	
15	42.6	54.4	131.8	42.6	698.8	1884.4	4055.6	955.6	22042.0	460.8	138.4	56.4	
16	41.1	52.6	128.5	41.1	635.4	1899.0	2702.1	1487.3	22349.3	436.1	128.5	56.4	
17	39.5	56.4	106.7	39.5	2067.0	2644.7	2098.4	2798.9	22349.3	406.0	122.1	54.4	
18	39.5	54.4	106.7	41.1	6308.4	3418.6	1695.4	4818.2	21046.0	382.5	115.9	54.4	
19	39.5	67.1	151.9	44.3	9442.1	2638.3	1406.9	4569.4	18201.3	418.0	112.8	52.6	
20	34.9	103.7	225.5	50.9	10401.4	2916.7	1393.4	2818.4	13332.2	498.7	119.0	50.9	
21	33.5	88.1	382.5	67.1	6762.2	2419.7	1195.7	2346.4	8632.4	418.0	148.5	49.2	
22	33.5	90.6	551.0	56.4	4006.4	4762.5	1500.6	1944.0	5388.7	365.3	128.5	47.5	
23	33.5	73.9	544.4	47.5	3727.6	5301.6	1500.6	1653.1	3527.8	331.7	122.1	45.9	
24	33.5	88.1	382.5	44.3	3332.1	4154.7	1568.9	1446.7	2475.2	304.6	128.5	44.3	
25	33.5	100.7	294.0	47.5	2550.0	2531.3	1310.6	1555.3	1974.1	278.4	122.1	42.6	
26	33.5	225.5	225.5	54.4	2531.3	3418.6	1036.3	2051.4	1638.8	263.2	115.9	44.3	
27	33.5	203.5	186.4	52.6	3981.9	5666.8	2438.2	4406.4	1393.4	243.8	112.8	49.2	
28	33.5	178.1	165.9	58.5	4433.4	4569.4	2274.0	4762.5	1252.7	243.8	100.7	67.1	
29	30.6	182.3	138.4	67.1	3885.9	2760.0	2896.9	4542.1	1151.4	268.2	95.6	56.4	
30	27.8	125.3	122.1	54.4	2702.1	2020.3	4596.8	3527.8	1036.3	243.8		49.2	
31		128.5		50.9	1653.1		4569.4		946.1	221.1		50.9	
TOTAL	1168.7	3358.1	8890.1	1934.8	75761.3	64169.1	84146.8	75939.2	429441.8	13802.1	4539.5	1885.3	765036.9 TON
MEAN	39.0	108.3	296.3	62.4	2443.9	2139.0	2714.4	2531.3	13853.0	445.2	156.5	60.8	
MAX	64.9	243.8	965.5	122.1	10401.4	5666.8	6171.1	4818.2	40247.6	862.3	288.8	88.1	40247.6
MIN	27.8	27.8	106.7	39.5	45.9	436.1	1036.3	955.6	946.1	221.1	95.6	42.6	27.8

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

KHLONG LAMPHU LA AT BAN THUNG NGIU, TRANG (X.110)

LOCATION — LAT. 7°-40'-24" N., LONG. 99°-35'-05" E., ON RIGHT BANK AT BAN THUNG NGIU, AMPHOE HUAI YOT, TRANG.

DRAINAGE AREA — 229 SQ.KM.

METHOD OF SAMPLING — DEPTH INTEGRATING

INSTRUMENT USED — US.D - 49

PERIOD OF AVAILABLE RECORDS — 1985 TO DATE

ACTUAL MEASUREMENT — 1985 TO DATE

REMARKS — CONTINUED SEDIMENT STATION
USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN THUNG NGIU, HUAI YOT, TRANG, (X.110)
STREAM - KHLONG LAMPHU RA
RIVER - KHLONG LAMPHU RA
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.49335
QS = 1.6872 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.89	0.46	3.83	3.56	0.79	11.43	20.94	51.76	51.76	22.10	6.83	3.09	
2	1.74	0.91	7.81	3.31	0.91	9.36	79.36	41.87	152.37	20.36	6.24	2.88	
3	1.59	2.41	4.06	2.88	0.79	9.36	37.16	35.63	84.08	19.22	5.97	2.88	
4	1.59	1.89	3.31	2.88	0.79	11.86	24.50	43.56	54.60	18.66	5.97	2.64	
5	2.05	6.83	5.37	2.41	0.91	8.57	32.64	32.64	382.75	16.48	5.37	2.22	
6	2.05	2.05	14.08	2.05	1.03	7.44	36.39	27.61	1578.72	15.95	5.11	2.22	
7	1.74	1.89	9.76	1.74	1.03	6.55	32.64	29.02	417.88	17.02	17.02	2.05	
8	1.59	1.44	11.43	1.59	4.57	8.19	25.12	26.35	211.38	15.47	37.93	2.05	
9	1.44	1.44	8.96	1.44	2.88	10.17	48.06	40.28	193.74	14.54	51.76	1.74	
10	1.30	10.58	7.11	1.30	2.41	11.43	72.45	39.49	152.37	13.62	8.57	1.74	
11	1.16	4.33	5.97	1.16	9.36	9.76	131.35	31.17	149.04	20.94	7.11	2.05	
12	1.74	2.41	4.06	1.16	15.95	37.16	49.90	25.12	398.27	15.47	6.55	1.89	
13	1.74	1.59	3.56	0.91	5.97	70.19	125.24	23.90	236.46	14.54	6.24	1.74	
14	1.16	1.44	4.33	0.79	4.06	41.08	171.14	23.90	159.11	20.94	5.97	1.59	
15	0.91	1.44	3.31	0.79	6.55	30.45	78.19	20.36	129.87	14.54	5.37	1.30	
16	0.79	1.59	3.09	0.79	28.31	38.71	69.07	53.65	113.31	13.62	5.11	1.44	
17	0.79	1.44	2.41	0.67	234.14	63.56	51.76	44.45	93.79	12.73	4.82	1.30	
18	0.79	3.09	4.33	0.79	343.52	34.88	45.34	273.74	80.53	11.86	4.82	1.16	
19	1.03	2.22	8.19	0.91	85.27	31.17	58.45	77.03	75.88	11.43	4.57	1.16	
20	0.91	3.56	11.43	1.16	52.70	28.31	49.90	48.97	61.40	11.00	4.33	1.16	
21	0.79	2.88	10.17	1.74	33.38	30.45	147.38	36.39	48.97	9.76	4.06	1.16	
22	0.67	2.05	7.11	1.59	23.90	126.81	178.49	32.64	40.28	9.76	4.06	1.03	
23	0.67	1.74	11.00	2.05	25.12	72.45	80.53	37.93	36.39	8.96	3.83	0.79	
24	0.56	1.30	6.24	1.44	18.11	45.34	55.55	48.97	34.12	8.57	4.82	0.79	
25	0.56	2.41	4.57	1.03	17.56	31.17	44.45	34.12	31.17	7.81	4.33	0.91	
26	0.56	2.22	4.33	0.91	34.88	59.43	57.48	42.68	28.31	7.81	4.06	1.03	
27	0.56	2.64	3.83	1.03	23.29	42.68	53.65	77.03	29.02	8.19	3.83	0.91	
28	0.56	2.88	3.56	1.03	28.31	31.90	63.56	52.70	29.73	8.57	3.83	0.79	
29	0.56	2.05	6.83	1.03	26.35	26.35	69.07	41.08	28.31	8.19	3.56	0.67	
30	0.46	3.09	4.82	0.91	18.11	31.17	100.03	32.64	26.35	7.44		0.56	
31		0.00		0.79	14.08		61.40		23.90	7.11		0.67	
TOTAL	33.95	76.27	188.86	45.84	1065.03	977.38	2151.19	1426.68	5133.86	412.66	242.04	47.61	11801.37 TON
MEAN	1.13	2.46	6.30	1.48	34.36	32.58	69.39	47.56	165.61	13.31	8.35	1.54	
MAX	2.05	10.58	14.08	3.56	343.52	126.81	178.49	273.74	1578.72	22.10	51.76	3.09	1578.72
MIN	0.46	0.00	2.41	0.67	0.79	6.55	20.94	20.36	23.90	7.11	3.56	0.56	0.00

WATER YEAR 1987

SOUTHERN PENINSULA WEST COAST

KHLONG PALIAN AT BAN LAM KHLAENG(2), TRANG (X.139)

LOCATION LAT. 7°-19'-08" N., LONG. 99°-49'-03" N., ON RIGHT BANK AT BAN LAM KHLAENG(2), AMPHOE PALIAN, TRANG.

DRAINAGE AREA 153 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING

INSTRUMENT USED US.D - 49

PERIOD OF AVAILABLE RECORDS 1986 TO DATE

ACTUAL MEASUREMENT 1986 TO DATE

REMARKS CONTINUED SEDIMENT STATION

USING RATING CURVE WATER YEAR 1987

RID COMPUTER CENTER

LQS/LQS02D/12

STATION - BAN LAM KHLAENG, PALIAN, TRANG, (X.139)
STREAM - KHLONG PALIAN
RIVER - KHLONG PALIAN
RIVER SYSTEM - PININSULA-EAST COAST

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.88362
QS = 0.3840 QW

WATER YEAR - 1987

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1987 TO MARCH 31, 1988

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.36	0.89	9.27	6.50	7.00	18.39	16.15	22.64	100.45	13.05	5.33	3.31	
2	1.26	2.32	10.05	6.02	27.30	17.82	15.61	20.16	82.65	12.60	5.11	3.31	
3	1.26	2.06	8.05	5.11	8.88	37.47	14.05	30.88	78.92	12.15	5.33	3.31	
4	1.26	2.06	12.60	5.11	8.88	22.64	12.60	29.43	67.38	11.72	4.89	3.14	
5	1.47	1.70	14.56	4.68	22.01	21.39	13.05	19.57	64.63	10.87	4.89	3.14	
6	1.58	1.47	8.32	4.26	140.90	17.26	11.72	18.39	1033.00	10.46	4.89	3.14	
7	1.36	1.47	6.50	3.87	129.02	16.15	14.56	20.16	252.87	10.05	5.33	3.14	
8	1.26	1.81	8.32	3.68	45.73	16.15	22.01	16.70	145.79	9.27	6.02	3.49	
9	1.16	2.19	7.00	3.49	42.32	25.93	23.28	59.29	100.45	8.88	4.89	3.68	
10	1.26	2.48	6.50	3.31	202.07	22.01	20.77	29.43	75.95	8.60	4.68	3.31	
11	3.31	1.70	5.78	3.14	41.21	23.28	111.05	23.28	61.93	8.88	4.89	3.14	
12	2.06	1.47	4.68	2.96	27.30	37.47	176.75	23.93	78.92	5.78	4.68	3.14	
13	1.58	1.26	4.26	2.80	23.28	25.26	71.61	25.26	66.00	9.66	4.47	2.96	
14	1.36	1.16	4.07	2.80	25.26	32.43	124.41	20.77	55.43	8.32	4.26	2.80	
15	1.26	1.16	3.68	2.96	100.45	42.32	51.69	30.15	42.32	8.05	4.26	2.80	
16	1.16	1.81	3.49	2.96	4683.65	70.18	46.90	28.71	36.60	7.52	4.47	2.96	
17	1.16	1.26	3.31	2.63	2294.28	96.36	34.91	23.28	34.07	7.26	4.26	2.80	
18	1.16	1.47	8.60	2.63	731.07	48.07	39.22	28.71	30.88	7.26	4.07	2.63	
19	1.16	1.36	28.71	7.00	220.49	38.34	31.62	30.15	28.71	7.00	3.87	2.63	
20	1.16	2.96	31.62	11.29	131.36	31.62	30.88	35.75	26.61	7.00	3.87	2.80	
21	1.07	1.70	13.54	7.00	190.47	25.93	45.73	43.44	24.59	6.75	3.87	2.63	
22	1.07	1.58	16.15	299.37	108.89	77.43	51.69	40.12	22.64	6.50	3.87	2.63	
23	0.97	1.36	320.25	23.93	71.61	30.15	40.12	51.69	22.01	6.26	3.87	2.63	
24	0.97	1.36	28.71	14.56	55.43	26.61	31.62	61.93	23.93	6.26	3.87	2.63	
25	1.07	8.05	17.26	10.87	43.44	23.93	27.30	74.49	19.57	6.26	3.87	2.96	
26	1.16	5.55	12.15	8.32	37.47	30.15	26.61	90.36	18.39	6.02	3.87	4.68	
27	1.07	10.46	9.66	7.26	31.62	22.01	27.30	138.49	17.26	5.78	3.68	2.96	
28	0.97	5.33	8.60	6.26	35.75	19.57	41.21	391.48	17.26	5.78	3.68	2.63	
29	0.89	9.66	7.52	5.78	26.61	17.26	29.43	96.36	16.15	5.55	3.68	2.63	
30	0.89	14.56	6.50	6.02	22.64	17.26	41.21	67.38	15.08	5.55		2.63	
31		6.50		5.78	20.16		26.61		14.05	5.33		2.48	
TOTAL	38.73	100.17	629.71	482.35	9556.55	950.84	1271.67	1592.38	2674.49	250.42	128.72	93.12	17769.15 TON
MEAN	1.29	3.23	20.99	15.56	308.28	31.69	41.02	53.08	86.27	8.08	4.44	3.00	
MAX	3.31	14.56	320.25	299.37	4683.65	96.36	176.75	391.48	1033.00	13.05	6.02	4.68	4683.65
MIN	0.89	0.89	3.31	2.63	7.00	16.15	11.72	16.70	14.05	5.33	3.68	2.48	0.89