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HYDROLOGICAL YEARBOOK

WATER YEAR 1996
VOLUME 39

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Volume 39

Royal Irrigation Department
Hydrology Division
Bangkok

FOREWORD

The programme of yearbook publication was initiated in 1966. Great efforts have been made in editing as well as the setting up of standard for yearbook publication. The previously processed data have been reviewed and rearranged in serial order or volumes to be published. The first issue was published in 1968 as Volume 8. It consists of the data set, such as stage and discharge of 59 streams at 86 actual streamflow data calibrating sites and at 27 previously calibrated ones recording in 1965 water year. Up untill now 38 volumes of yearbooks presenting streamflow data as early as 1912 up to 1995 totalling 7,604 station-years of record had been published.

This Volume 39 which is the thirty-ninth issues of the series was prepared by the Data Processing and statistic Branch. It consists record, during 1996 water year, of stage and discharge of 165 streams at 244 currently calibrating sites.

Hydrology Division

August 1998

ACKNOWLEDGEMENT

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

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

Thank to Mr.Vidhaya Samaharn, Director, Office of Hydrology and Water Management and Mr.Thada Sukhabunnaphan, chief of Hydrological Investigation Section I, for the initiative of Hydrology Data Processing with Computer to Data Processing Section from 1978 and for the valuable advice.

Also may we express our sincere wish to Hydrological Investigation Section, Study and Discharge Analysis Unit and Study and Water-Level Analysis Unit for the complete issue of Thailand Hydrological yearbook Volume 39.

Hydrology Division

August 1998

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SUSPENDED SEDIMENT STATIONS

ILLUSSTRATION OF STREAM GAGING ACTIVITIES

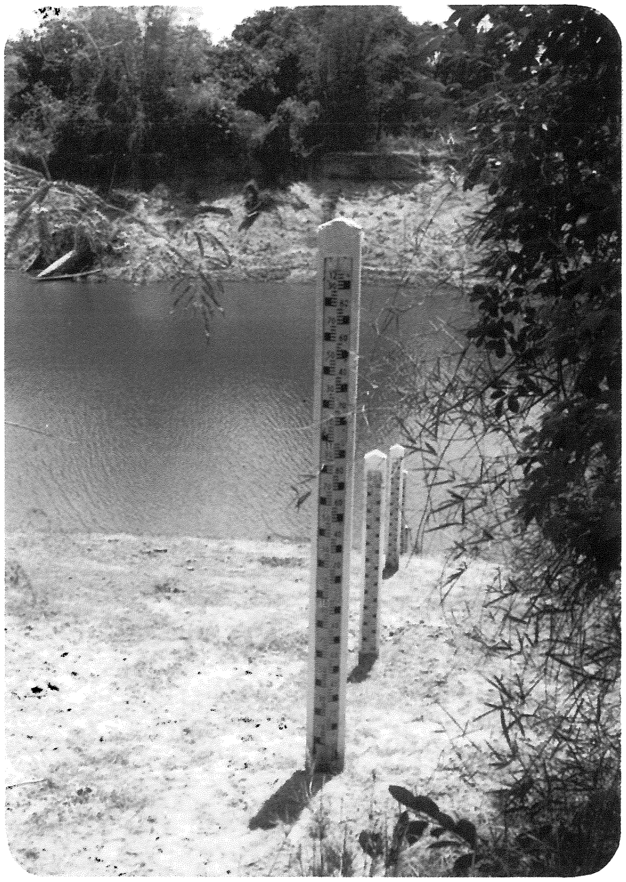

Fig. 1 Typical vertical staff gage

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

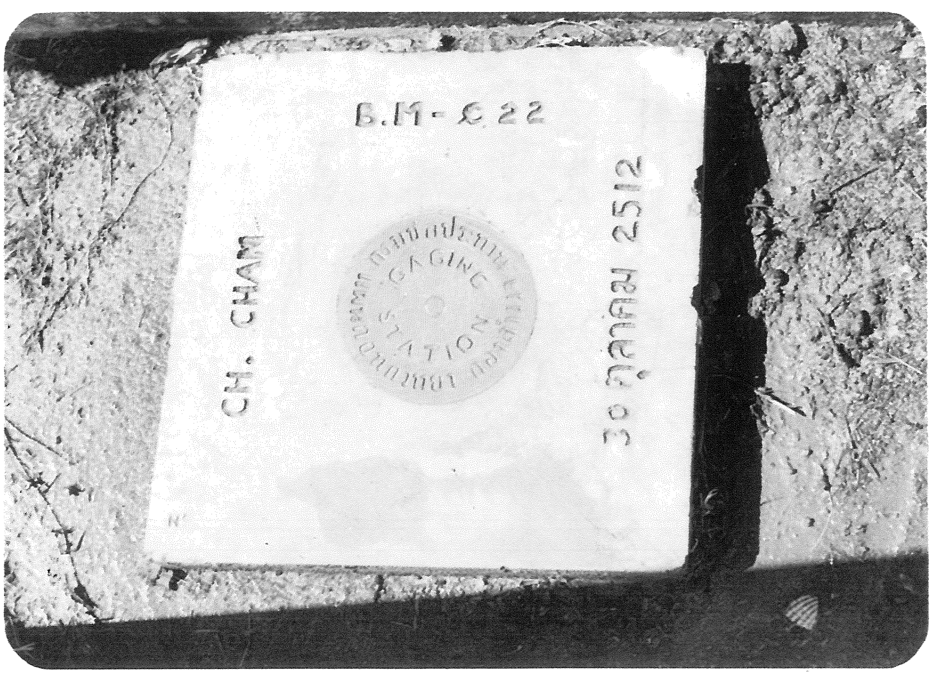

Fig. 3 Standard bench mark

Fig. 4 Close-up of rating operation

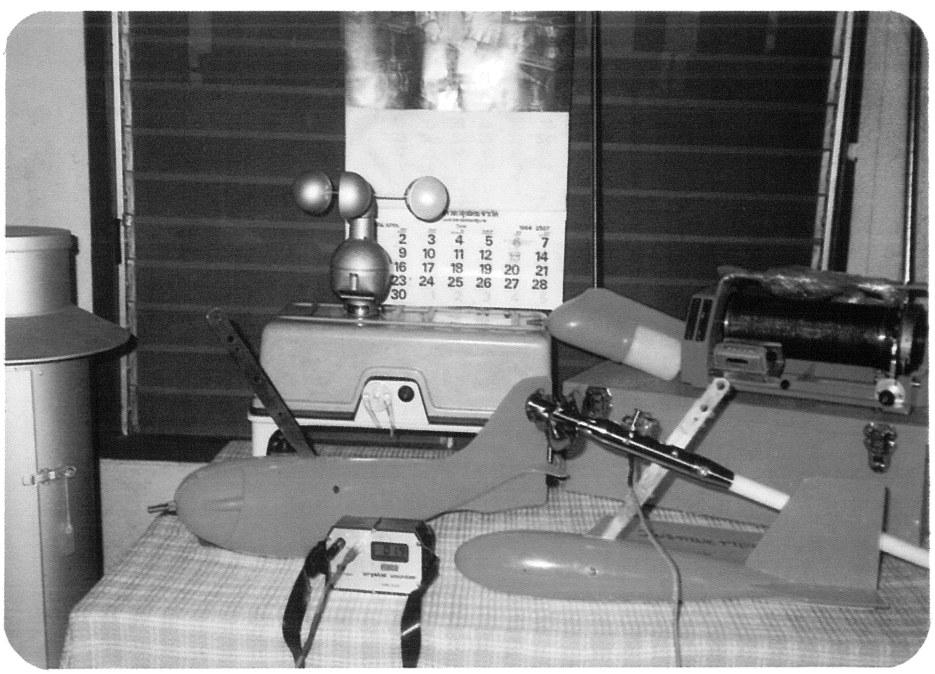

Fig. 5 Standard hydrologic equipment

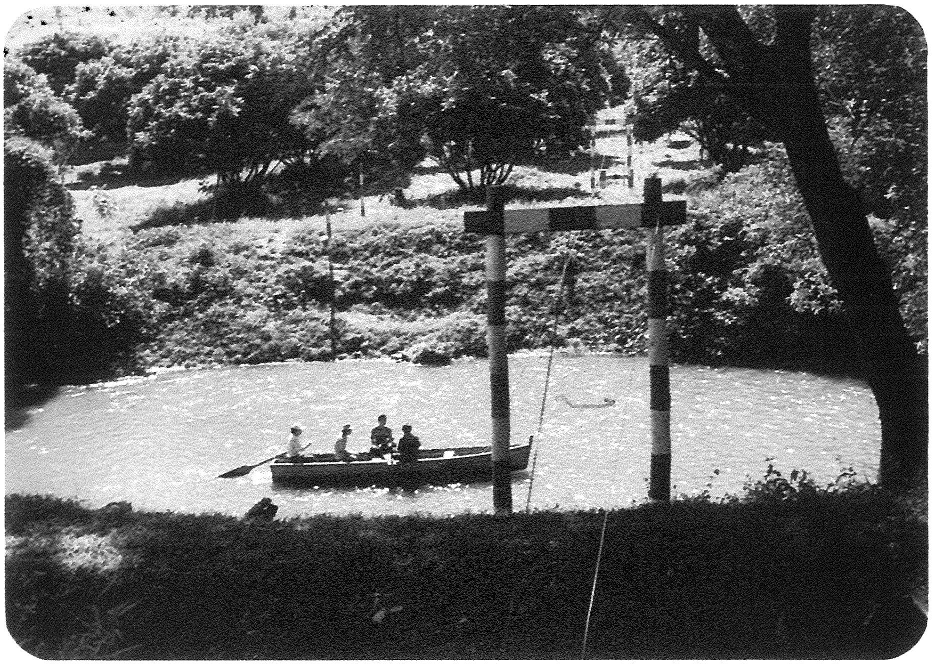

Fig. 6 Measuring line

Fig. 7 Camp for hydrological station

HYDROLOGICAL YEAR BOOK PUBLICATION

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Introduction

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

Definition of terms and abbreviations

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

<u>CMS-day</u> 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.

<u>Control</u> 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.

<u>Cubic meter per second</u> (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.

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

<u>Mean discharge</u> is the arithmetic average of individual daily mean discharge during a specific period.

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

<u>Drainage area</u> 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.

<u>Gage height</u> (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
32	1989	224	July 1991
33	1990	225	July 1992
34	1991	227	July 1993
35	1992	220	May 1994
36	1993	228	April 1995
37	1994	224	August 1996
38	1995	232	July 1997
39	1996	244	August 1998

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

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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 far 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 older day fashion of using cross section made during dry season for discharge computation.

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

Office data processing

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

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

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

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

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

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

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

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

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

Review of procedure for streamflow data processing.

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

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

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

b) Discrepancies of recording charts, if any.

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

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

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

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

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

4) Checking stability of rating curve used.

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

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

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

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

Classification of streamflow data

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

Future plan for computerization

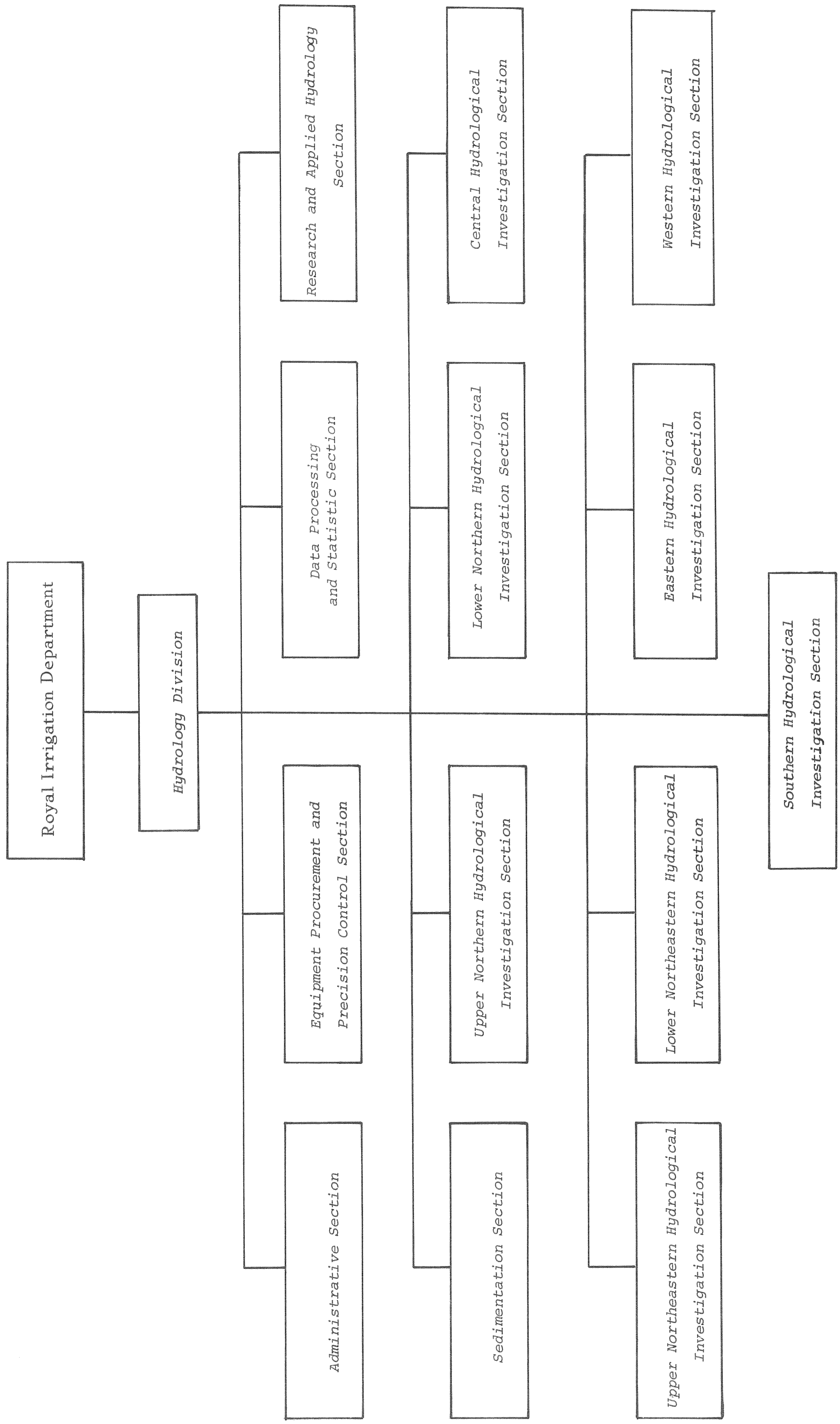
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement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

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

Organization

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

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



Royal Irrigation Department
Hydrology Division
Research and Applied Hydrology Section
Data Processing and Statistic Section
Equipment Procurement and Precision Control Section
Administrative Section
Central Hydrological Investigation Section
Lower Northern Hydrological Investigation Section
Upper Northern Hydrological Investigation Section
Sedimentation Section
Western Hydrological Investigation Section
Eastern Hydrological Investigation Section
Lower Northeastern Hydrological Investigation Section
Upper Northeastern Hydrological Investigation Section
Southern Hydrological Investigation Section

PARTICIPATION IN STREAM GAGING WORKS

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Among 22 water related government agencies, several of them operate streamflow gaging works according to theirown 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 LowerMekongCommittee. 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)	39.73	inches (in)
	3.2808	feet (ft)
	1.0936	yards (yd)
	.1988	rods
kilometers (km)	.6214	miles (mi)
	Area	
square meters (m^2)	10.76	square feet (ft^2)
	1.196	square yards (yd^2)
	2.47×10^{-4}	acres
rai (1,600 m^2-Thai)	.3952	acres
hectares (ha)	2.4709	acres
square hectometers (hm^2)	2.4709	acres
square kilometers (km^2)	247.1	acres
	.3861	square miles (mi^2)
	Volume	
liters (l)	.2642	gallons (gal)
cubic decimeters (dm^3)	.2642	gallons (gal)
	.03531	cubic feet (ft^3)
cubic meters (m^3)	264.2	gallons (gal)
	2.642×10^{-4}	million gallons (10^6 gal)
	35.31	cubic feet (ft^3)
	4.086×10^{-4}	cfs-day (ft^3/s-day)
	8.11×10^{-4}	acre-feet (acre-ft)
cubic hectometers (hm^3)	264.2	million gallons (10^6 gal)
	408.6	cfs-day (ft^3/s-day)
	811	acre-feet (acre-ft)
million cubic meters (mcm)	811	acre-feet (acre-ft)
cubic kilometers (km^3)	811×10^3	acre-feet (acre-ft)
	Flow	
liters per second (l/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm^3/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
	22.82×10^{-3}	million gallons per day (mgd)

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

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Stream Gaging Data

Water Year 1996

WATER YEAR 1996

PING RIVER BASIN

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

Location Lat. 18°-47′-09″ N., Long. 99°-00′-29″ E., on left bank about 100 meters downstream from Nawarat Bridge, Amphoe Muang, Chiang Mai.

Drainage Area 6,355 sq.km.

Type of Gage Water-stage recorder.

Zero Gage at Bottom +300.50 m.(M.S.L.)

Bench Mark B.M.-H.D.

Location On left bank near automatic gage building.

Elevation +305.310 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.

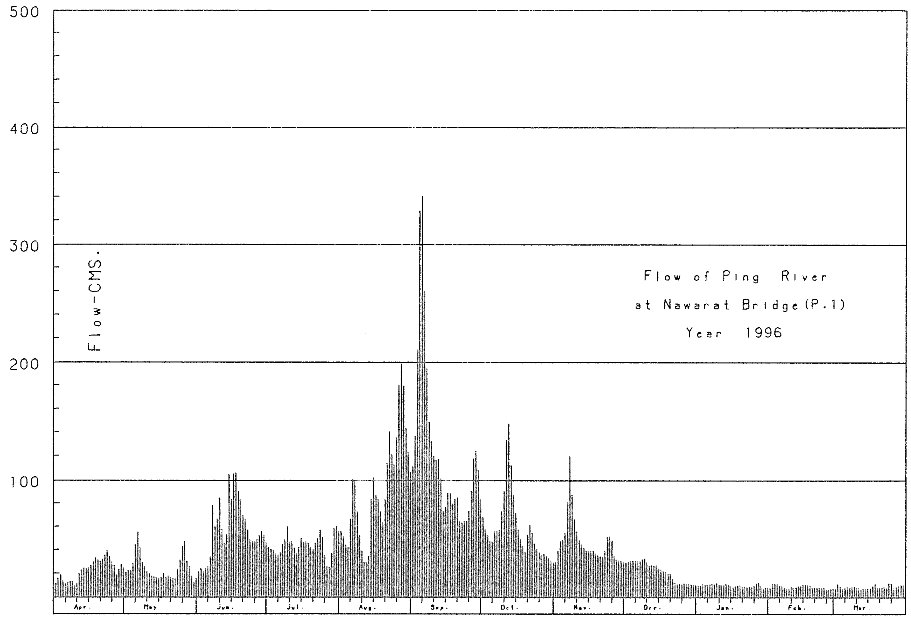
Overbank Flow Conditions No overbank flow.

General Description Records good. Flow regulated by the local weir about 700 meters downstream from the gage site. Mae Ngat Dam, Mae Taeng & Mae Faek weir situated abave gage site. Stage-discharge relation defined by 67 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.57	301.67	301.67	301.84	301.94	302.29	302.02	301.74	301.74	301.54	301.51	301.50	
2	301.62	301.68	301.70	301.83	301.91	302.48	301.95	301.82	301.74	301.54	301.56	301.56	
3	301.65	301.68	301.67	301.82	301.86	303.01	301.92	301.88	301.75	301.56	301.57	301.53	
4	301.60	301.73	301.70	301.80	301.84	303.78	301.88	301.89	301.75	301.56	301.56	301.50	
5	301.57	301.86	301.71	301.79	302.01	303.86	301.88	301.93	301.75	301.55	301.54	301.51	
6	301.58	301.94	301.78	301.81	302.21	303.34	301.94	302.10	301.75	301.56	301.53	301.52	
7	301.60	301.84	302.08	301.86	302.20	302.89	301.94	302.36	301.75	301.56	301.52	301.52	
8	301.59	301.74	301.97	301.89	302.05	302.57	301.95	302.13	301.76	301.56	301.50	301.52	
9	301.54	301.71	302.01	301.97	301.92	302.45	302.05	302.01	301.77	301.57	301.50	301.53	
10	301.56	301.67	302.12	301.88	301.82	302.36	302.15	301.94	301.74	301.56	301.53	301.52	
11	301.66	301.66	301.95	301.88	301.74	302.33	302.46	301.89	301.72	301.55	301.51	301.51	
12	301.69	301.64	301.87	301.84	301.74	302.34	302.56	301.86	301.72	301.55	301.52	301.48	
13	301.70	301.63	301.92	301.80	301.78	302.21	302.30	301.84	301.72	301.56	301.53	301.49	
14	301.70	301.63	302.24	301.84	302.11	302.05	302.13	301.82	301.72	301.55	301.54	301.50	
15	301.70	301.62	302.11	301.90	302.22	302.07	302.04	301.82	301.70	301.53	301.55	301.50	
16	301.72	301.63	302.24	301.88	302.13	302.14	301.95	301.82	301.69	301.52	301.55	301.50	
17	301.75	301.66	302.25	301.88	302.11	302.14	301.90	301.82	301.68	301.53	301.55	301.54	
18	301.77	301.63	302.15	301.87	302.05	302.09	301.85	301.80	301.67	301.54	301.54	301.56	
19	301.76	301.64	302.11	301.84	301.99	302.11	301.81	301.79	301.66	301.54	301.52	301.51	
20	301.75	301.63	302.03	301.83	302.11	302.12	301.92	301.78	301.66	301.53	301.51	301.51	
21	301.76	301.62	302.01	301.87	302.31	302.00	301.98	301.78	301.62	301.52	301.51	301.52	
22	301.79	301.62	301.95	301.90	302.51	301.99	301.93	301.82	301.58	301.52	301.51	301.52	
23	301.82	301.69	301.89	301.95	302.37	302.00	301.87	301.91	301.56	301.52	301.51	301.51	
24	301.78	301.76	301.88	301.91	302.30	302.00	301.83	301.91	301.56	301.52	301.51	301.57	
25	301.74	301.85	301.88	301.79	302.48	302.05	301.81	301.89	301.56	301.54	301.49	301.57	
26	301.72	301.88	301.89	301.71	302.79	302.15	301.79	301.78	301.57	301.57	301.47	301.51	
27	301.65	301.75	301.92	301.71	302.92	302.34	301.80	301.76	301.56	301.58	301.50	301.52	
28	301.69	301.71	301.94	301.80	302.79	302.39	301.78	301.75	301.56	301.53	301.49	301.53	
29	301.73	301.64	301.92	301.96	302.53	302.27	301.77	301.75	301.56	301.50		301.55	
30	301.70	301.59	301.87	301.97	302.38	302.11	301.75	301.74	301.55	301.51		301.54	
31		301.62		301.94	302.25		301.74		301.55	301.51		301.55	
Mean	301.68	301.70	301.95	301.86	302.17	302.40	301.96	301.87	301.67	301.54	301.52	301.52	
Max	301.82	301.94	302.25	301.97	302.92	303.86	302.56	302.36	301.77	301.58	301.57	301.57	303.86
Min	301.54	301.59	301.67	301.71	301.74	301.99	301.74	301.74	301.55	301.50	301.50	301.48	301.47

Annual Max Momentary Gage Height 304.00 M (MSL), at 20.00 Hours, on Sep 4, 1996
Zero Gage at Bottom Elevation 300.50 M (MSL), River Bed 229.31 M (MSL)
Left Bank Elevation 307.78 M (MSL)
Right Bank Elevation 307.65 M (MSL), Drainage Area 6355 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.14	21.70	21.70	42.70	56.50	111.70	68.80	30.00	30.00	10.28	8.42	7.80		
2	16.20	22.80	25.00	41.40	52.00	137.20	58.00	40.10	30.00	10.28	11.52	11.52		
3	19.50	22.80	21.70	40.10	45.30	211.50	53.50	47.90	31.25	11.52	12.14	9.66		
4	14.00	28.75	25.00	37.50	42.70	328.80	47.90	49.20	31.25	11.52	11.52	7.80		
5	12.14	45.30	26.25	36.25	67.15	341.60	47.90	55.00	31.25	10.90	10.28	8.42		
6	12.76	56.50	35.00	38.80	101.30	261.00	56.50	82.00	31.25	11.52	9.66	9.04		
7	14.00	42.70	78.70	45.30	100.00	194.60	56.50	120.80	31.25	11.52	9.04	9.04		
8	13.38	30.00	61.00	49.20	73.75	149.80	58.00	87.40	32.50	11.52	7.80	9.04		
9	10.28	26.25	67.15	61.00	53.50	133.00	73.75	67.15	33.75	12.14	7.80	9.66		
10	11.52	21.70	85.60	47.90	40.10	120.80	91.00	56.50	30.00	11.52	9.66	9.04		
11	20.60	20.60	58.00	47.90	30.00	116.90	134.40	49.20	27.50	10.90	8.42	8.42		
12	23.90	18.40	46.60	42.70	30.00	118.20	148.40	45.30	27.50	10.90	9.04	7.14		
13	25.00	17.30	53.50	37.50	35.00	101.30	113.00	42.70	27.50	11.52	9.66	7.47		
14	25.00	17.30	105.20	42.70	83.80	73.75	87.40	40.10	27.50	10.90	10.28	7.80		
15	25.00	16.20	83.80	50.50	102.60	77.05	72.10	40.10	25.00	9.66	10.90	7.80		
16	27.50	17.30	105.20	47.90	87.40	89.20	58.00	40.10	23.90	9.04	10.90	7.80		
17	31.25	20.60	106.50	47.90	83.80	89.20	50.50	40.10	22.80	9.66	10.90	10.28		
18	33.75	17.30	91.00	46.60	73.75	80.35	44.00	37.50	21.70	10.28	10.28	11.52		
19	32.50	18.40	83.80	42.70	64.00	83.80	38.80	36.25	20.60	10.28	9.04	8.42		
20	31.25	17.30	70.45	41.40	83.80	85.60	53.50	35.00	20.60	9.66	8.42	8.42		
21	32.50	16.20	67.15	46.60	114.30	65.50	62.50	35.00	16.20	9.04	8.42	9.04		
22	36.25	16.20	58.00	50.50	141.40	64.00	55.00	40.10	12.76	9.04	8.42	9.04		
23	40.10	23.90	49.20	58.00	122.10	65.50	46.60	52.00	11.52	9.04	8.42	8.42		
24	35.00	32.50	47.90	52.00	113.00	65.50	41.40	52.00	11.52	9.04	8.42	12.14		
25	30.00	44.00	47.90	36.25	137.20	73.75	38.80	49.20	11.52	10.28	7.47	12.14		
26	27.50	47.90	49.20	26.25	180.60	91.00	36.25	35.00	12.14	12.14	6.81	8.42		
27	19.50	31.25	53.50	26.25	198.80	118.20	37.50	32.50	11.52	12.76	7.80	9.04		
28	23.90	26.25	56.50	37.50	180.60	124.70	35.00	31.25	11.52	9.66	7.47	9.66		
29	28.75	18.40	53.50	59.50	144.20	109.10	33.75	31.25	11.52	7.80		10.90		
30	25.00	13.38	46.60	61.00	123.40	83.80	31.25	30.00	10.90	8.42		10.28		
31		16.20		56.50	106.50		30.00		10.90	8.42		10.90		
Total	710.17	785.38	1780.60	1398.30	2868.55	3766.40	1860.00	1430.70	689.12	321.16	258.91	286.07	16155.36	CMSDAY
Mean	23.67	25.33	59.35	45.11	92.53	125.55	60.00	47.69	22.23	10.36	9.25	9.23	44.26	CMS
Max	40.10	56.50	106.50	61.00	198.80	341.60	148.40	120.80	33.75	12.76	12.14	12.14	341.60	CMS
Min	10.28	13.38	21.70	26.25	30.00	64.00	30.00	30.00	10.90	7.80	6.81	7.14	6.81	CMS
Runoff	61.359	67.857	153.844	120.813	247.843	325.417	160.704	123.612	59.540	27.748	22.370	24.716	1395.823	MCM

Momentary Peak 364.00 CMS, at 304.00 M (MSL), at 20.00 Hours, on Sep 4, 1996

Runoff Yield 6.96 Liters/Second/Square KM, Momentary Peak Yield 57.278 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

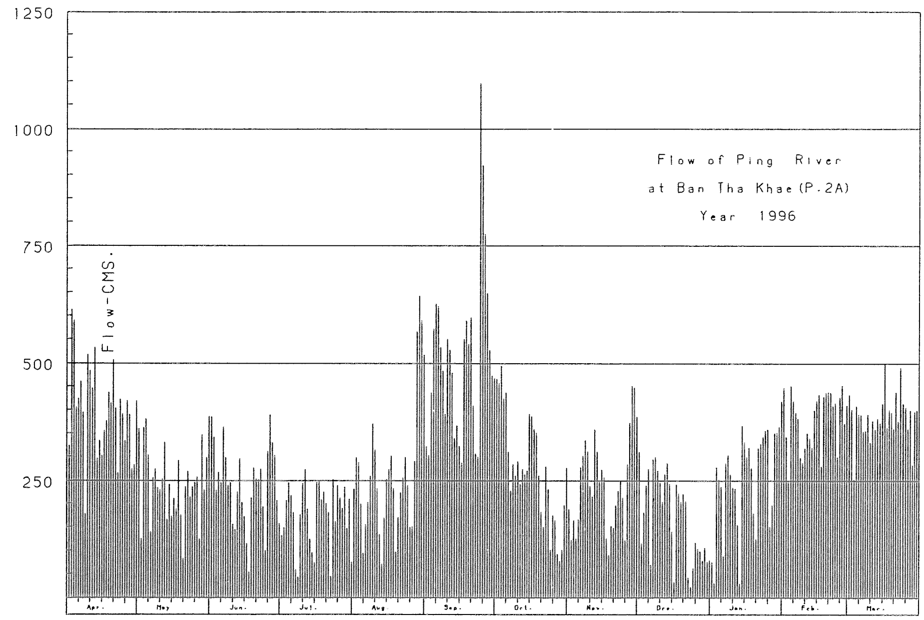
Ping River at Ban Tha Khae, Tak (P.2A)

Location	Lat. 16°-51′-14″ N., Long. 99°-07′-50″ E., on right bank about 200 meters downstream from Kittikhachon I Bridge, Ban Tha Khae, Amphoe Muang, Tak.
Drainage Area	38,862 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+104.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near automatic gage building.
Elevation	+115.321 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1952 to date.
Rating Operation	
Period of Rating	1952-1960, 1963-1967, 1971 to date.
Rated by Float	-
Rated by Current Meter	1952-1960, 1963-1967, 1971 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Phumiphol Dam reservoir since 1964. Stage-discharge relation defined by 29 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.49	105.58	105.64	104.90	105.24	105.49	105.81	105.10	105.46	104.64	105.77	105.74	
2	106.07	104.87	105.54	104.96	105.43	105.44	105.79	104.86	104.83	104.35	105.54	105.67	
3	106.03	105.59	105.23	105.16	105.40	105.75	105.86	105.02	105.08	105.37	105.29	105.30	
4	105.68	105.63	105.34	105.28	105.14	106.00	105.72	104.87	105.26	105.30	105.78	105.69	
5	105.72	105.44	105.28	105.20	104.74	106.09	105.75	105.03	105.36	105.25	105.71	105.65	
6	105.80	104.93	105.59	105.08	104.99	106.08	105.46	105.37	104.62	104.71	105.66	105.65	
7	105.66	105.31	105.43	104.55	105.15	105.93	105.23	105.44	105.42	105.40	105.63	105.57	
8	105.07	105.36	105.26	104.45	105.32	105.84	105.39	105.52	105.43	105.44	105.43	105.57	
9	105.90	105.25	105.28	105.06	105.61	105.65	105.32	105.46	105.35	105.33	105.40	105.65	
10	105.84	105.23	104.99	105.27	105.47	105.96	105.41	105.26	105.28	105.25	105.48	105.51	
11	105.77	105.30	104.95	105.36	105.24	105.92	105.27	105.19	105.15	105.24	105.56	105.62	
12	105.93	105.51	105.22	105.10	104.91	105.83	105.36	105.58	105.33	104.99	105.53	105.58	
13	105.42	105.03	105.42	104.87	104.62	105.53	105.33	105.46	105.40	104.34	105.48	105.63	
14	105.52	105.27	105.15	104.74	105.04	105.60	105.35	105.29	105.27	105.60	105.67	105.61	
15	105.44	105.05	105.05	104.64	105.30	105.49	105.65	105.36	104.93	105.51	105.71	105.70	
16	105.57	105.18	104.83	105.28	105.36	105.40	105.64	105.31	104.37	105.43	105.74	105.87	
17	105.62	105.10	104.52	105.29	105.44	105.96	105.58	104.87	105.27	105.48	105.38	105.59	
18	105.75	105.41	105.18	105.17	105.24	106.03	105.56	104.72	105.21	105.37	105.73	105.67	
19	105.70	105.06	105.37	105.22	104.75	105.94	105.32	104.98	105.15	105.07	105.75	105.66	
20	105.88	104.68	105.30	105.14	105.04	106.04	105.08	104.96	105.21	104.87	105.75	105.58	
21	105.68	105.25	105.30	105.08	105.22	105.69	104.97	105.13	105.16	105.48	105.75	105.75	
22	105.34	105.35	105.36	104.46	105.31	105.45	105.38	105.23	104.44	105.50	105.69	105.62	
23	105.72	105.19	105.12	105.30	105.43	105.43	105.24	105.29	104.27	105.54	105.70	105.85	
24	105.65	105.25	104.76	105.01	105.26	106.80	104.77	105.18	104.57	105.57	105.43	105.70	
25	105.52	105.28	105.46	105.26	104.97	106.55	105.06	104.86	104.84	105.58	105.73	105.68	
26	105.71	105.31	105.65	105.18	104.97	106.33	105.02	105.39	104.78	104.97	105.78	105.58	
27	105.65	104.87	105.51	105.11	105.41	106.13	104.73	105.61	104.76	105.13	105.61	105.67	
28	105.36	105.55	105.44	105.25	105.99	105.92	104.65	105.78	104.66	105.56	105.69	105.39	
29	105.39	105.23	105.16	104.96	106.12	105.82	104.77	105.77	104.79	105.56		105.66	
30	105.71	105.43	105.00	105.17	106.03	105.81	105.13	105.64	104.65	105.59		105.67	
31		105.64		104.64	105.90		105.37		104.66	105.71		105.39	
Mean	105.65	105.26	105.24	105.04	105.29	105.86	105.32	105.25	105.00	105.26	105.62	105.63	
Max	106.07	105.64	105.65	105.36	106.12	106.80	105.86	105.78	105.46	105.71	105.78	105.87	106.80
Min	105.07	104.68	104.52	104.45	104.62	105.40	104.65	104.72	104.27	104.34	105.29	105.30	104.27

Annual Max Momentary Gage Height 107.46 M (MSL), at 23.00 Hours, on Sep 24, 1996
Zero Gage at Bottom Elevation 104.00 M (MSL), River Bed 103.48 M (MSL)
Left Bank Elevation 109.60 M (MSL)
Right Bank Elevation 109.38 M (MSL), Drainage Area 38862 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	325.0	361.0	387.8	134.5	233.8	325.0	468.5	190.0	313.0	76.2	448.9	434.8	
2	615.7	126.9	345.0	149.8	301.0	305.0	458.3	124.3	116.6	32.7	345.0	401.9	
3	591.8	365.0	230.4	208.0	289.0	439.5	496.3	166.0	184.0	278.7	251.1	254.5	
4	406.6	383.1	268.3	247.6	202.0	574.0	425.4	126.9	240.7	254.5	453.6	411.3	
5	425.4	305.0	247.6	220.0	96.7	627.5	439.5	169.0	275.2	237.3	420.7	392.5	
6	463.0	142.1	365.0	184.0	157.4	621.6	313.0	278.7	72.1	90.5	397.2	392.5	
7	397.2	257.9	301.0	60.5	205.0	535.1	230.4	305.0	297.0	289.0	383.1	357.0	
8	181.0	275.2	240.7	45.5	261.4	485.2	285.5	337.0	301.0	305.0	301.0	357.0	
9	518.5	237.3	247.6	178.0	373.7	392.5	261.4	313.0	271.7	264.9	289.0	392.5	
10	485.2	230.4	157.4	244.1	317.0	551.8	293.0	240.7	247.6	237.3	321.0	333.0	
11	448.9	254.5	147.2	275.2	233.8	529.6	244.1	217.0	205.0	233.8	353.0	378.4	
12	535.1	333.0	226.9	190.0	137.1	479.6	275.2	361.0	264.9	157.4	341.0	361.0	
13	297.0	169.0	297.0	126.9	72.1	341.0	264.9	313.0	289.0	31.7	321.0	383.1	
14	337.0	244.1	205.0	96.7	172.0	369.0	271.7	251.1	244.1	369.0	401.9	373.7	
15	305.0	175.0	175.0	76.2	254.5	325.0	392.5	275.2	142.1	333.0	420.7	416.0	
16	357.0	214.0	116.6	247.6	275.2	289.0	387.8	257.9	34.9	301.0	434.8	501.9	
17	378.4	190.0	56.0	251.1	305.0	551.8	361.0	126.9	244.1	321.0	282.1	365.0	
18	439.5	293.0	214.0	211.0	233.8	591.8	353.0	92.6	223.5	278.7	430.1	401.9	
19	416.0	178.0	278.7	226.9	98.7	540.7	261.4	154.9	205.0	181.0	439.5	397.2	
20	507.4	84.4	254.5	202.0	172.0	597.8	184.0	149.8	223.5	126.9	439.5	361.0	
21	406.6	237.3	254.5	184.0	226.9	411.3	152.4	199.0	208.0	321.0	439.5	439.5	
22	268.3	271.7	275.2	47.0	257.9	309.0	282.1	230.4	44.0	329.0	411.3	378.4	
23	425.4	217.0	196.0	254.5	301.0	301.0	233.8	251.1	24.3	345.0	416.0	490.7	
24	392.5	237.3	100.8	163.0	240.7	1098.0	102.8	214.0	63.5	357.0	301.0	416.0	
25	337.0	247.6	313.0	240.7	152.4	923.5	178.0	124.3	119.2	361.0	430.1	406.6	
26	420.7	257.9	392.5	214.0	152.4	775.6	166.0	285.5	104.9	152.4	453.6	361.0	
27	392.5	126.9	333.0	193.0	293.0	651.3	94.7	373.7	100.8	199.0	373.7	401.9	
28	275.2	349.0	305.0	237.3	568.4	529.6	78.3	453.6	80.3	353.0	411.3	285.5	
29	285.5	230.4	208.0	149.8	645.4	474.1	102.8	448.9	106.9	353.0		397.2	
30	420.7	301.0	160.0	211.0	591.8	468.5	199.0	387.8	78.3	365.0		401.9	
31		387.8		76.2	518.5		278.7		80.3	420.7		285.5	
Total	12055.1	7682.8	7299.7	5546.1	8339.6	15414.4	8535.5	7418.3	5405.5	7955.7	10710.7	11930.4	108293.8 CMSDAY
Mean	401.8	247.8	243.3	178.9	269.0	513.8	275.3	247.3	174.4	256.6	382.5	384.9	296.7 CMS
Max	615.7	387.8	392.5	275.2	645.4	1098.0	496.3	453.6	313.0	420.7	453.6	501.9	1098.0 CMS
Min	181.0	84.4	56.0	45.5	72.1	289.0	78.3	92.6	24.3	31.7	251.1	254.5	24.3 CMS
Runoff	1041.56	663.79	630.69	479.18	720.54	1331.80	737.47	640.94	467.04	687.37	925.40	1030.79	9356.58 MCM

Momentary Peak 1596.50 CMS, at 107.46 M (MSL), at 23.00 Hours, on Sep 24, 1996

Runoff Yield 7.63 Liters/Second/Square KM, Momentary Peak Yield 41.081 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

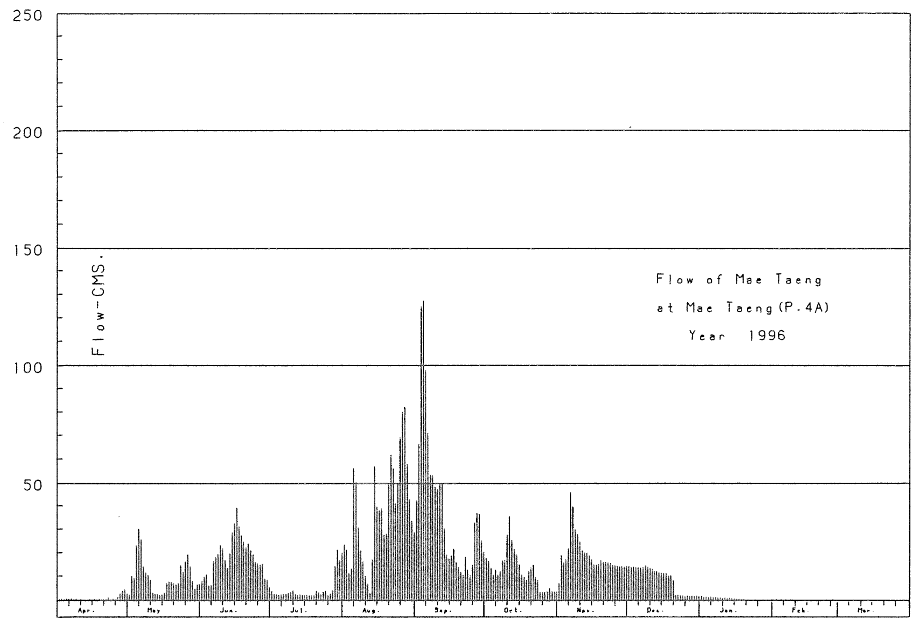
Mae Taeng River at Ban Sanmahaphon, Chiang Mai (P.4A)

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	Water-stage recorder.
Zero Gage at Bottom	+333.74 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	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	1955-1960, 1967 to date.
Rated by Float	-
Rated by Current Meter	1955-1960, 1967 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +337.74 m.(M.S.L.), and is included.
General Description	Records good. Flow regulated by Mae Taeng weir about 7 kilometers above gage site.Discharge estimated by current meter. Stage-discharge relation defined by 49 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	334.97	335.14	335.49	335.29	336.04	336.56	335.86	335.46	335.73	335.09	334.94	334.90	
2	334.96	335.58	335.57	335.19	335.98	337.09	335.81	335.90	335.72	335.07	334.94	334.90	
3	334.97	335.55	335.60	335.16	335.63	337.93	335.71	335.78	335.72	335.05	334.93	334.90	
4	334.97	336.04	335.42	335.15	335.69	337.96	335.60	335.84	335.72	335.05	334.93	334.90	
5	334.97	336.25	335.42	335.16	336.88	337.59	335.68	335.99	335.71	335.05	334.93	334.90	
6	334.97	336.11	335.81	335.17	336.74	337.17	335.60	336.64	335.71	335.05	334.93	334.90	
7	334.96	335.73	335.87	335.19	336.26	336.82	335.65	336.50	335.71	335.04	334.93	334.90	
8	334.95	335.63	335.91	335.21	335.97	336.81	335.82	336.24	335.75	335.04	334.93	334.90	
9	334.93	335.60	336.04	335.26	335.80	336.70	335.82	336.18	335.72	335.03	334.93	334.90	
10	334.93	335.51	335.99	335.31	335.58	336.67	336.17	336.09	335.71	335.02	334.92	334.90	
11	334.93	335.24	335.82	335.17	335.45	336.73	336.39	335.96	335.69	335.02	334.90	334.90	
12	334.93	335.19	335.71	335.15	335.24	336.74	336.11	335.94	335.66	335.01	334.90	334.87	
13	334.93	335.17	335.93	335.15	335.83	336.25	335.98	335.93	335.65	335.01	334.90	334.87	
14	334.94	335.15	336.20	335.15	336.90	335.90	335.91	335.90	335.64	335.01	334.90	334.87	
15	334.95	335.15	336.31	335.14	336.50	335.85	335.75	335.83	335.63	335.00	334.90	334.87	
16	334.95	335.22	336.49	335.13	336.45	335.89	335.60	335.76	335.63	334.98	334.90	334.87	
17	334.95	335.46	336.27	335.13	336.48	335.99	335.56	335.75	335.62	334.96	334.90	334.87	
18	334.95	335.48	336.17	335.11	336.17	335.80	335.52	335.77	335.59	334.95	334.89	334.87	
19	334.95	335.48	336.08	335.14	336.19	335.72	335.66	335.82	335.59	334.94	334.90	334.87	
20	334.95	335.45	336.01	335.30	336.73	335.65	335.71	335.80	335.51	334.93	334.90	334.87	
21	334.95	335.43	336.06	335.26	337.00	335.60	335.76	335.79	335.15	334.92	334.91	334.87	
22	335.03	335.46	335.97	335.15	336.88	335.87	335.56	335.79	335.14	334.91	334.91	334.87	
23	334.95	335.75	335.90	335.28	336.53	335.68	335.51	335.78	335.13	334.90	334.91	334.87	
24	334.95	335.64	335.80	335.30	336.74	335.59	335.27	335.75	335.11	334.90	334.91	334.87	
25	334.95	335.80	335.77	335.14	337.14	335.75	335.26	335.75	335.10	334.89	334.91	334.87	
26	335.05	335.91	335.75	335.18	337.32	336.32	335.26	335.73	335.10	334.89	334.90	334.87	
27	335.20	335.73	335.77	335.32	337.36	336.43	335.29	335.73	335.10	334.91	334.89	334.87	
28	335.30	335.49	335.54	335.74	336.92	336.41	335.37	335.73	335.10	334.92	334.89	334.87	
29	335.34	335.36	335.51	335.98	336.57	336.10	335.29	335.73	335.10	334.92		334.87	
30	335.18	335.43	335.39	335.82	336.34	335.94	335.29	335.73	335.10	334.93		334.87	
31		335.45		335.93	336.20		335.27		335.09	334.93		334.87	
Mean	335.00	335.53	335.85	335.28	336.37	336.38	335.65	335.89	335.47	334.98	334.91	334.88	
Max	335.34	336.25	336.49	335.98	337.36	337.96	336.39	336.64	335.75	335.09	334.94	334.90	337.96
Min	334.93	335.14	335.39	335.11	335.24	335.59	335.26	335.46	335.09	334.89	334.89	334.87	334.87

Annual Max Momentary Gage Height 338.17 M (MSL), at 21.00 Hours, on Sep 4, 1996
Zero Gage at Bottom Elevation 333.74 M (MSL), River Bed 334.22 M (MSL)
Left Bank Elevation 337.74 M (MSL)
Right Bank Elevation 338.46 M (MSL), Drainage Area 1902 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	2.40	8.25	3.90	23.78	42.82	18.34	7.50	14.64	1.90	0.64	0.40	
2	0.76	10.50	10.25	2.90	21.90	66.79	16.89	19.50	14.36	1.70	0.64	0.40	
3	0.82	9.75	11.00	2.60	11.84	125.20	14.08	16.04	14.36	1.50	0.58	0.40	
4	0.82	23.78	6.50	2.50	13.52	127.90	11.00	17.76	14.36	1.50	0.58	0.40	
5	0.82	30.85	6.50	2.60	56.60	98.30	13.24	22.20	14.08	1.50	0.58	0.40	
6	0.82	26.03	16.89	2.70	50.42	71.29	11.00	46.18	14.08	1.50	0.58	0.40	
7	0.76	14.64	18.63	2.90	31.22	53.90	12.40	40.30	14.08	1.40	0.58	0.40	
8	0.70	11.84	19.80	3.10	21.60	53.45	17.18	30.48	15.20	1.40	0.58	0.40	
9	0.58	11.00	23.78	3.60	16.60	48.70	17.18	28.34	14.36	1.30	0.58	0.40	
10	0.58	8.75	22.20	4.20	10.50	47.44	28.01	25.38	14.08	1.20	0.52	0.40	
11	0.58	3.40	17.18	2.70	7.25	49.99	36.12	21.30	13.52	1.20	0.40	0.40	
12	0.58	2.90	14.08	2.50	3.40	50.42	26.03	20.70	12.68	1.10	0.40	0.34	
13	0.58	2.70	20.40	2.50	17.47	30.85	21.90	20.40	12.40	1.10	0.40	0.34	
14	0.64	2.50	29.00	2.50	57.50	19.50	19.80	19.50	12.12	1.10	0.40	0.34	
15	0.70	2.50	33.08	2.40	40.30	18.05	15.20	17.47	11.84	1.00	0.40	0.34	
16	0.70	3.20	39.92	2.30	38.40	19.21	11.00	15.48	11.84	0.88	0.40	0.34	
17	0.70	7.50	31.59	2.30	39.54	22.20	10.00	15.20	11.56	0.76	0.40	0.34	
18	0.70	8.00	28.01	2.10	28.01	16.60	9.00	15.76	10.75	0.70	0.38	0.34	
19	0.70	8.00	25.06	2.40	28.67	14.36	12.68	17.18	10.75	0.64	0.40	0.34	
20	0.70	7.25	22.82	4.00	49.99	12.40	14.08	16.60	8.75	0.58	0.40	0.34	
21	0.70	6.75	24.42	3.60	62.20	11.00	15.48	16.32	2.50	0.52	0.46	0.34	
22	1.30	7.50	21.60	2.50	56.60	18.63	10.00	16.32	2.40	0.46	0.46	0.34	
23	0.70	15.20	19.50	3.80	41.56	13.24	8.75	16.04	2.30	0.40	0.46	0.34	
24	0.70	12.12	16.60	4.00	50.42	10.75	3.70	15.20	2.10	0.40	0.46	0.34	
25	0.70	16.60	15.76	2.40	69.58	15.20	3.60	15.20	2.00	0.38	0.46	0.34	
26	1.50	19.80	15.20	2.80	80.28	33.46	3.60	14.64	2.00	0.38	0.40	0.34	
27	3.00	14.64	15.76	4.40	82.84	37.64	3.90	14.64	2.00	0.46	0.38	0.34	
28	4.00	8.25	9.50	14.92	58.44	36.88	5.40	14.64	2.00	0.52	0.38	0.34	
29	4.80	5.20	8.75	21.90	43.24	25.70	3.90	14.64	2.00	0.52		0.34	
30	2.80	6.75	5.80	17.18	34.22	20.70	3.90	14.64	2.00	0.58		0.34	
31		7.25		20.40	29.00		3.70		1.90	0.58		0.34	
Total	34.26	317.55	557.83	154.60	1176.89	1212.57	401.06	585.55	283.01	29.16	13.30	11.20	4776.98 CMSDAY
Mean	1.14	10.24	18.59	4.99	37.96	40.42	12.94	19.52	9.13	0.94	0.47	0.36	13.09 CMS
Max	4.80	30.85	39.92	21.90	82.84	127.90	36.12	46.18	15.20	1.90	0.64	0.40	127.90 CMS
Min	0.58	2.40	5.80	2.10	3.40	10.75	3.60	7.50	1.90	0.38	0.38	0.34	0.34 CMS
Runoff	2.960	27.436	48.197	13.357	101.683	104.766	34.652	50.592	24.452	2.519	1.149	0.968	412.731 MCM

Momentary Peak 148.00 CMS, at 338.17 M (MSL), at 21.00 Hours, on Sep 4, 1996

Runoff Yield 6.88 Liters/Second/Square KM, Momentary Peak Yield 77.813 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

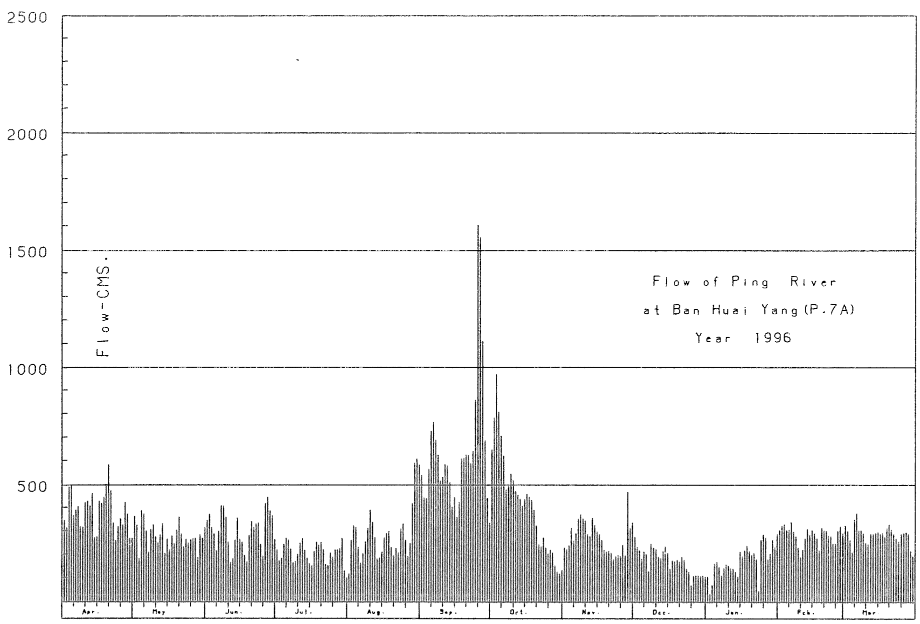
Ping River at Ban Huai Yang, Kamphaeng Phet (P.7A)

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	+71.73 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the gage observer's house.
Elevation	+77.446 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 good. Flow completely regulated by Phumiphol Dam reservior above gage site. Stage-discharge relation defined by 30 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.70	73.76	73.70	73.30	72.92	74.23	74.50	73.34	73.49	72.88	73.58	73.64	
2	73.61	73.64	73.79	73.14	73.44	73.98	74.81	73.31	73.34	72.57	73.63	73.57	
3	74.10	73.16	73.61	73.17	73.64	73.98	75.21	73.37	73.30	72.73	73.65	73.44	
4	74.12	73.83	73.53	73.39	73.61	74.30	74.86	73.60	73.16	73.08	73.58	73.27	
5	73.77	73.78	73.30	73.47	73.34	74.68	74.64	73.43	73.27	73.12	73.58	73.71	
6	73.83	73.57	73.56	73.44	73.10	74.76	74.44	73.54	73.24	73.03	73.69	73.80	
7	73.88	73.27	73.89	73.32	73.25	74.60	74.07	73.73	72.97	72.90	73.56	73.57	
8	73.62	73.58	73.88	73.11	73.42	74.45	74.12	73.78	73.39	73.02	73.49	73.58	
9	73.62	73.65	73.75	73.12	73.60	74.17	74.25	73.73	73.34	73.07	73.34	73.53	
10	73.93	73.49	73.42	73.23	73.84	74.21	74.18	73.70	73.31	73.06	73.20	73.41	
11	73.94	73.41	73.10	73.40	73.69	74.35	74.06	73.52	73.20	73.01	73.30	73.38	
12	73.89	73.51	73.17	73.47	73.48	74.33	74.01	73.50	73.17	73.01	73.47	73.53	
13	74.03	73.66	73.44	73.29	73.17	74.16	73.97	73.74	73.29	72.95	73.59	73.52	
14	73.47	73.25	73.73	73.18	73.18	73.87	73.88	73.64	73.35	72.88	73.51	73.54	
15	73.49	73.45	73.46	73.09	73.27	73.99	73.96	73.56	73.25	73.27	73.58	73.55	
16	73.94	73.30	73.41	73.05	73.48	73.75	74.03	73.52	73.01	73.20	73.53	73.53	
17	73.92	73.50	73.22	73.28	73.54	73.93	73.99	73.45	73.14	73.30	73.47	73.54	
18	73.99	73.39	73.11	73.42	73.56	74.41	73.96	73.30	73.12	73.36	73.29	73.49	
19	74.13	73.58	73.51	73.37	73.34	74.41	73.83	73.28	73.15	73.28	73.61	73.60	
20	74.35	73.75	73.69	73.41	73.22	74.45	73.64	73.28	73.12	73.22	73.57	73.65	
21	74.06	73.52	73.61	73.31	73.33	74.44	73.38	73.26	73.19	73.26	73.57	73.58	
22	73.67	73.35	73.66	73.07	73.26	74.36	73.35	73.15	73.15	73.16	73.50	73.53	
23	73.44	73.45	73.67	73.06	73.60	74.48	73.48	73.21	73.01	72.62	73.50	73.47	
24	73.62	73.40	73.39	73.25	73.66	74.97	73.34	73.22	72.95	73.45	73.39	73.42	
25	73.73	73.45	73.20	73.19	73.45	76.49	73.25	73.21	72.73	73.52	73.40	73.52	
26	73.64	73.46	73.91	73.31	73.21	76.38	73.30	73.37	72.89	73.47	73.57	73.54	
27	73.93	73.47	73.99	73.31	73.40	75.50	73.26	73.22	72.89	73.16	73.62	73.55	
28	73.78	73.18	73.83	73.32	73.92	74.59	73.06	74.05	72.89	73.24	73.53	73.52	
29	73.47	73.51	73.76	73.47	74.36	73.98	72.95	73.60	72.89	73.45		73.29	
30	73.46	73.47	73.46	72.97	74.41	73.67	72.93	73.67	72.89	73.34		73.21	
31		73.61		72.86	74.34		72.98		72.87	73.52		73.33	
Mean	73.80	73.50	73.56	73.25	73.52	74.46	73.86	73.48	73.13	73.13	73.51	73.51	
Max	74.35	73.83	73.99	73.47	74.41	76.49	75.21	74.05	73.49	73.52	73.69	73.80	76.49
Min	73.44	73.16	73.10	72.86	72.92	73.67	72.93	73.15	72.73	72.57	73.20	73.21	72.57

Annual Max Momentary Gage Height 76.62 M (MSL), at 9.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 71.73 M (MSL), River Bed 71.36 M (MSL)
Left Bank Elevation 77.92 M (MSL)
Right Bank Elevation 77.25 M (MSL), Drainage Area 42700 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	349.0	369.4	349.0	224.0	121.2	543.0	653.0	235.6	281.8	111.0	310.6	329.8	
2	320.2	329.8	379.6	179.8	265.8	446.8	790.6	226.9	235.6	37.4	326.6	307.4	
3	492.0	185.2	320.2	187.9	329.8	446.8	975.8	244.3	224.0	74.2	333.0	265.8	
4	499.8	393.5	294.6	250.1	320.2	571.0	813.6	317.0	185.2	163.6	310.6	215.6	
5	372.8	376.2	224.0	275.4	235.6	731.2	713.6	262.6	215.6	174.4	310.6	352.4	
6	393.5	307.4	304.2	265.8	169.0	767.6	628.4	297.8	207.2	150.1	345.8	383.0	
7	411.0	215.6	414.5	229.8	210.0	696.0	480.6	359.2	134.2	116.0	304.2	307.4	
8	323.4	310.6	411.0	171.7	259.4	632.5	499.8	376.2	250.1	147.4	281.8	310.6	
9	323.4	333.0	366.0	174.4	317.0	519.3	551.0	359.2	235.6	160.9	235.6	294.6	
10	428.8	281.8	259.4	204.4	397.0	535.0	523.2	349.0	226.9	158.2	196.0	256.2	
11	432.4	256.2	169.0	253.0	345.8	591.5	476.8	291.4	196.0	144.7	224.0	247.2	
12	414.5	288.2	187.9	275.4	278.6	583.3	457.8	285.0	187.9	144.7	275.4	294.6	
13	465.4	336.2	265.8	221.2	187.9	515.4	443.2	362.6	221.2	129.0	313.8	291.4	
14	275.4	210.0	359.2	190.6	190.6	407.5	411.0	329.8	238.5	111.0	288.2	297.8	
15	281.8	269.0	272.2	166.3	215.6	450.4	439.6	304.2	210.0	215.6	310.6	301.0	
16	432.4	224.0	256.2	155.5	278.6	366.0	465.4	291.4	144.7	196.0	294.6	294.6	
17	425.2	285.0	201.6	218.4	297.8	428.8	450.4	269.0	179.8	224.0	275.4	297.8	
18	450.4	250.1	171.7	259.4	304.2	616.1	439.6	224.0	174.4	241.4	221.2	281.8	
19	503.7	310.6	288.2	244.3	235.6	616.1	393.5	218.4	182.5	218.4	320.2	317.0	
20	591.5	366.0	345.8	256.2	201.6	632.5	329.8	218.4	174.4	201.6	307.4	333.0	
21	476.8	291.4	320.2	226.9	232.7	628.4	247.2	212.8	193.3	212.8	307.4	310.6	
22	339.4	238.5	336.2	160.9	212.8	595.6	238.5	182.5	182.5	185.2	285.0	294.6	
23	265.8	269.0	339.4	158.2	317.0	644.8	278.6	198.8	144.7	48.6	285.0	275.4	
24	323.4	253.0	250.1	210.0	336.2	864.2	235.6	201.6	129.0	269.0	250.1	259.4	
25	359.2	269.0	196.0	193.3	269.0	1610.0	210.0	198.8	74.2	291.4	253.0	291.4	
26	329.8	272.2	421.6	226.9	198.8	1555.0	224.0	244.3	113.5	275.4	307.4	297.8	
27	428.8	275.4	450.4	226.9	253.0	1117.0	212.8	201.6	113.5	185.2	323.4	301.0	
28	376.2	190.6	393.5	229.8	425.2	691.7	158.2	473.0	113.5	207.2	294.6	291.4	
29	275.4	288.2	369.4	275.4	595.6	446.8	129.0	317.0	113.5	269.0		221.2	
30	272.2	275.4	272.2	134.2	616.1	339.4	123.8	339.4	113.5	235.6		198.8	
31		320.2		106.0	587.4		136.8		108.5	291.4		232.7	
Total	11633.6	8840.7	9189.1	6552.1	9205.1	19589.7	13131.2	8391.8	5505.3	5590.4	8091.5	8953.3	114673.8 CMSDAY
Mean	387.8	285.2	306.3	211.4	296.9	653.0	423.6	279.7	177.6	180.3	289.0	288.8	314.2 CMS
Max	591.5	393.5	450.4	275.4	616.1	1610.0	975.8	473.0	281.8	291.4	345.8	383.0	1610.0 CMS
Min	265.8	185.2	169.0	106.0	121.2	339.4	123.8	182.5	74.2	37.4	196.0	198.8	37.4 CMS
Runoff	1005.14	763.84	793.94	566.10	795.32	1692.55	1134.54	725.05	475.66	483.01	699.11	773.57	9907.82 MCM

Momentary Peak 1675.00 CMS, at 76.62 M (MSL), at 9.00 Hours, on Sep 25, 1996
Runoff Yield 7.36 Liters/Second/Square KM, Momentary Peak Yield 39.227 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

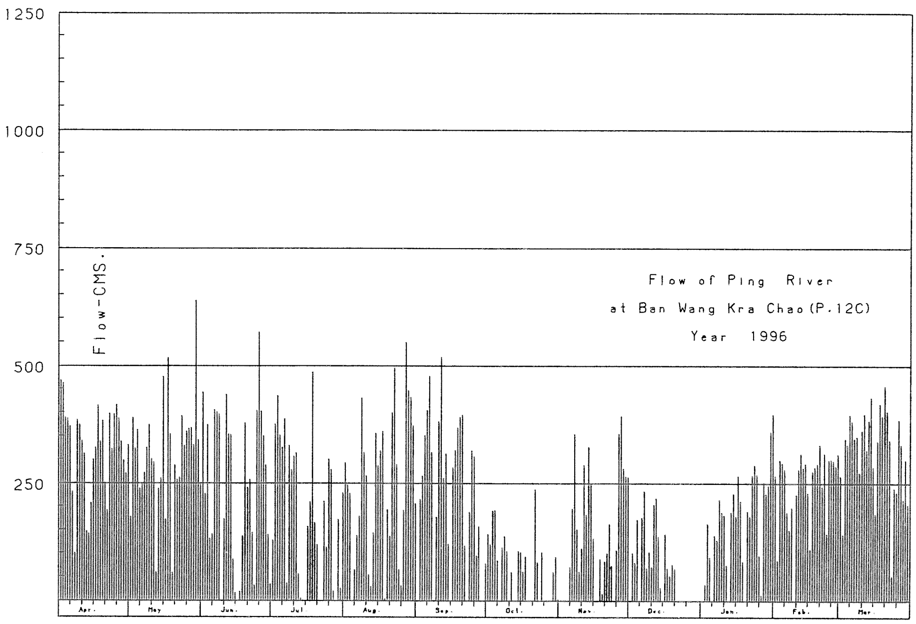
Ping River at Cham Thewi Bridge, Tak (P.12C)

Location	Lat. 17°-14′-27″ N., Long. 99°-01′-30″ E., on left bank about 3 kilometers from Phumiphol Dam reservoir, at Cham Thewi Bridge, Amphoe Sam Ngao, Tak.
Drainage Area	26.396 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+129.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On the left bank at the pier of the bridge.
Elevation	+136.995 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1995 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The station P.12c has moved from P.12 about 2 kms. downstream. Stage-discharge relation defined by 25 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.94	130.90	131.86	130.68	131.36	129.72	130.74	129.74	129.36	129.20	131.25	131.25	
2	131.92	131.69	131.11	131.64	131.18	131.06	130.63	129.60	130.54	130.20	130.47	130.73	
3	131.69	131.47	131.64	131.84	131.11	131.25	130.96	129.22	130.44	130.84	131.38	131.54	
4	131.68	131.60	130.69	131.56	129.77	131.56	130.96	129.73	130.88	130.50	131.35	131.49	
5	131.63	131.15	130.74	131.47	130.36	131.74	130.47	130.39	129.20	129.20	131.30	131.71	
6	131.12	131.19	131.74	131.68	130.72	131.97	129.22	130.98	130.89	130.72	130.94	131.66	
7	130.55	131.28	131.73	130.21	130.91	131.44	130.60	131.57	131.13	130.68	130.78	131.54	
8	131.67	131.47	131.71	131.49	131.82	129.67	130.72	130.79	130.38	131.06	130.99	131.55	
9	131.64	131.64	129.92	131.30	131.44	130.90	130.56	130.34	130.56	130.94	129.92	131.28	
10	131.52	131.39	130.88	131.41	131.25	131.66	129.92	130.60	130.40	130.92	131.10	131.60	
11	131.43	131.36	131.85	131.43	130.31	132.08	130.34	131.34	131.01	130.42	131.30	131.71	
12	130.77	130.34	131.57	130.32	130.17	131.23	129.66	130.92	131.07	129.24	131.43	131.45	
13	130.74	131.15	131.57	130.03	130.75	131.43	129.32	131.48	130.71	130.94	131.32	131.67	
14	131.03	131.23	130.48	129.98	131.58	130.64	130.57	131.19	130.16	131.11	131.35	131.83	
15	131.38	131.96	130.10	129.77	131.33	129.64	130.55	130.69	129.20	130.91	131.11	131.32	
16	131.47	130.88	129.94	130.81	131.45	131.32	130.34	129.97	130.74	131.25	130.59	130.93	
17	131.77	132.08	130.11	131.04	131.59	131.45	130.51	129.50	130.38	131.04	131.29	131.52	
18	131.52	131.57	130.72	131.99	130.02	131.62	130.00	130.48	130.30	130.45	131.32	131.78	
19	131.67	130.33	131.65	130.85	130.97	131.69	129.76	130.09	130.42	129.84	131.35	131.70	
20	131.20	131.34	131.16	130.63	130.72	131.71	129.68	130.46	130.38	130.95	131.49	131.90	
21	130.96	131.22	131.22	129.81	131.72	130.62	131.14	130.54	129.32	130.91	131.16	131.73	
22	131.72	131.24	130.75	129.76	132.02	129.60	130.45	130.84	129.20	131.26	131.43	131.53	
23	131.46	131.70	130.19	131.04	131.34	130.95	129.36	130.41	129.66	131.34	130.74	130.30	
24	131.71	131.49	131.74	130.61	130.37	131.45	130.55	129.32	129.86	131.26	131.38	131.15	
25	131.78	131.59	132.23	131.39	130.19	131.41	129.69	130.58	129.88	130.52	131.38	131.12	
26	131.68	131.61	131.73	131.30	130.96	130.52	129.29	131.57	129.73	130.07	131.37	131.67	
27	131.52	131.62	131.56	130.12	132.17	130.81	129.32	131.70	129.33	131.20	131.33	131.49	
28	131.38	131.49	131.34	129.78	131.87	129.64	129.79	131.31	129.96	131.10	131.42	131.06	
29	131.27	132.41	130.73	130.88	131.83	129.59	130.34	131.25	129.59	131.17		131.38	
30	131.49	131.53	130.21	130.15	131.63	130.43	130.50	131.24	129.50	131.59		131.01	
31		131.19		131.11	131.02		130.02		129.10	131.71		131.53	
Mean	131.44	131.39	131.10	130.84	131.09	130.96	130.19	130.59	130.11	130.73	131.15	131.42	
Max	131.94	132.41	132.23	131.99	132.17	132.08	131.14	131.70	131.13	131.71	131.49	131.90	132.41
Min	130.55	130.33	129.92	129.76	129.77	129.59	129.22	129.22	129.10	129.20	129.92	130.30	129.10

Annual Max Momentary Gage Height	133.28 M (MSL), at 18.00 Hours, on May 17, 1996
Zero Gage at Bottom Elevation	129.00 M (MSL), River Bed 129.98 M (MSL)
Left Bank Elevation	133.34 M (MSL)
Right Bank Elevation	133.95 M (MSL), Drainage Area 26396 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	470.50	179.00	444.50	130.20	295.40	0.00	143.10	0.00	0.00	0.00	266.25	266.25	
2	464.00	391.45	230.05	376.20	247.90	217.30	119.45	0.00	101.00	35.00	87.00	140.95	
3	391.45	326.30	376.20	438.00	230.05	266.25	192.80	0.00	81.00	165.20	300.70	346.60	
4	388.40	364.00	132.35	352.40	0.00	352.40	192.80	0.00	174.40	93.00	292.75	332.10	
5	373.15	240.25	143.10	326.30	65.40	406.70	87.00	71.10	0.00	0.00	279.50	397.55	
6	232.60	250.45	406.70	388.40	138.80	480.25	0.00	197.40	176.70	138.80	188.20	382.30	
7	103.00	274.20	403.65	36.90	181.30	317.60	113.00	355.30	235.15	130.20	151.70	346.60	
8	385.35	326.30	397.55	332.10	431.50	0.00	138.80	153.85	69.20	217.30	199.70	349.50	
9	376.20	376.20	0.00	279.50	317.60	179.00	105.00	61.60	105.00	188.20	0.00	274.20	
10	340.80	303.35	174.40	308.90	266.25	382.30	0.00	113.00	73.00	183.60	227.50	364.00	
11	314.70	295.40	441.25	314.70	55.90	518.80	61.60	290.10	204.55	77.00	279.50	397.55	
12	149.55	61.60	355.30	57.80	29.75	260.95	0.00	183.60	219.85	0.00	314.70	320.50	
13	143.10	240.25	355.30	5.25	145.25	314.70	0.00	329.20	136.65	188.20	284.80	385.35	
14	209.65	260.95	89.00	0.00	358.20	121.60	107.00	250.45	28.00	230.05	292.75	434.75	
15	300.70	477.00	17.50	0.00	287.45	0.00	103.00	132.35	0.00	181.30	230.05	284.80	
16	326.30	174.40	0.00	158.30	320.50	284.80	61.60	0.00	143.10	266.25	111.00	185.90	
17	415.85	518.80	19.25	212.20	361.10	320.50	95.00	0.00	69.20	212.20	276.85	340.80	
18	340.80	355.30	138.80	486.75	3.50	370.10	0.00	89.00	54.00	83.00	284.80	418.90	
19	385.35	59.70	379.25	167.50	195.10	391.45	0.00	15.75	77.00	0.00	292.75	394.50	
20	253.00	290.10	242.80	119.45	138.80	397.55	0.00	85.00	69.20	190.50	332.10	457.50	
21	192.80	258.30	258.30	0.00	400.60	117.30	237.70	101.00	0.00	181.30	242.80	403.65	
22	400.60	263.60	145.25	0.00	497.20	0.00	83.00	165.20	0.00	268.90	314.70	343.70	
23	323.40	394.50	33.25	212.20	290.10	190.50	0.00	75.00	0.00	290.10	143.10	54.00	
24	397.55	332.10	406.70	115.15	67.30	320.50	103.00	0.00	0.00	268.90	300.70	240.25	
25	418.90	361.10	573.10	303.35	33.25	308.90	0.00	109.00	0.00	97.00	300.70	232.60	
26	388.40	367.05	403.65	279.50	192.80	97.00	0.00	355.30	0.00	12.25	298.05	385.35	
27	340.80	370.10	352.40	21.00	551.20	158.30	0.00	394.50	0.00	253.00	287.45	332.10	
28	300.70	332.10	290.10	0.00	447.75	0.00	0.00	282.15	0.00	227.50	311.80	217.30	
29	271.55	640.00	140.95	174.40	434.75	0.00	61.60	266.25	0.00	245.35		300.70	
30	332.10	343.70	36.90	26.25	373.15	79.00	93.00	263.60	0.00	361.10		204.55	
31		250.45		230.05	207.10		3.50		0.00	397.55		343.70	
Total	9731.25	9678.00	7387.55	5852.75	7564.95	6853.75	2101.95	4339.70	2017.00	5182.75	6891.90	9878.50	77480.05 CMSDAY
Mean	324.37	312.19	246.25	188.80	244.03	228.46	67.80	144.66	65.06	167.19	246.14	318.66	212.27 CMS
Max	470.50	640.00	573.10	486.75	551.20	518.80	237.70	394.50	235.15	397.55	332.10	457.50	640.00 CMS
Min	103.00	59.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00	0.00 CMS
Runoff	840.780	836.179	638.284	505.678	653.612	592.164	181.608	374.950	174.269	447.790	595.460	853.502	6694.276 MCM

Momentary Peak 1009.40 CMS, at 133.28 M (MSL), at 18.00 Hours, on May 17, 1996

Runoff Yield 8.04 Liters/Second/Square KM, Momentary Peak Yield 38.241 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

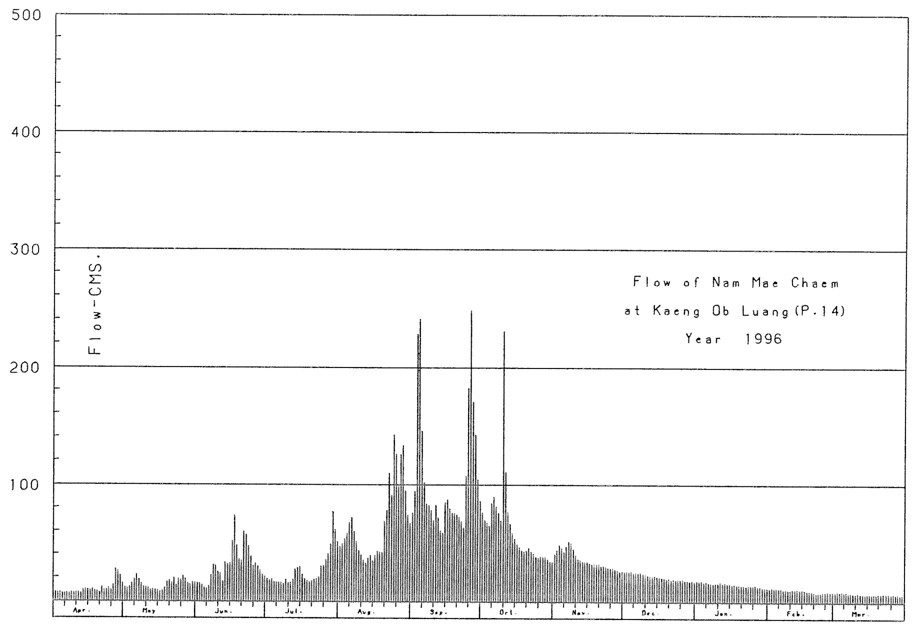
Nam Mae Chaem at Kaeng Ob Luang, Chiang Mai (P.14)

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	+282.200 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 by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The concrete weir situated about 6 kilometers downstream from the gage site. Stage-discharge relation defined by 145 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	277.79	277.95	278.03	278.13	278.65	279.04	279.04	278.69	278.42	278.25	278.09	278.00	
2	277.79	277.91	278.04	278.11	278.68	279.25	278.96	278.74	278.42	278.25	278.10	278.01	
3	277.78	277.96	277.99	278.12	278.75	280.50	278.93	278.82	278.42	278.25	278.09	278.00	
4	277.77	278.03	277.93	278.07	278.81	280.60	278.90	278.77	278.42	278.23	278.08	278.00	
5	277.77	278.12	277.90	278.05	278.93	279.78	279.14	278.72	278.40	278.23	278.09	277.99	
6	277.76	278.21	277.98	278.06	278.99	279.34	279.20	278.79	278.40	278.22	278.08	277.99	
7	277.77	278.12	278.20	278.05	278.84	279.13	279.10	278.87	278.40	278.20	278.06	277.96	
8	277.78	278.02	278.38	278.03	278.71	279.12	279.04	278.84	278.40	278.20	278.05	277.96	
9	277.78	277.96	278.36	278.11	278.60	279.06	278.95	278.76	278.39	278.20	278.05	277.96	
10	277.78	277.95	278.27	278.05	278.53	278.95	280.52	278.67	278.37	278.21	278.05	277.95	
11	277.78	277.92	278.23	278.05	278.45	279.12	279.63	278.62	278.36	278.23	278.05	277.95	
12	277.77	277.88	278.08	278.12	278.41	278.99	279.22	278.60	278.34	278.21	278.06	277.94	
13	277.88	277.88	278.41	278.30	278.48	278.84	279.09	278.58	278.34	278.21	278.06	277.92	
14	277.87	277.88	278.39	278.33	278.53	278.82	278.97	278.57	278.34	278.20	278.05	277.92	
15	277.86	277.84	278.40	278.34	278.45	279.14	278.90	278.58	278.34	278.19	278.05	277.92	
16	277.86	277.81	278.72	278.21	278.52	279.18	278.83	278.55	278.32	278.18	278.04	277.92	
17	277.88	277.85	279.00	278.13	278.59	279.08	278.78	278.54	278.32	278.18	278.03	277.92	
18	277.85	277.92	278.66	278.09	278.57	279.04	278.74	278.54	278.30	278.17	278.02	277.92	
19	277.82	278.07	278.47	278.07	278.57	279.03	278.72	278.54	278.30	278.16	278.01	277.92	
20	277.80	278.09	278.44	278.08	278.95	279.02	278.74	278.54	278.30	278.16	277.99	277.94	
21	277.95	278.04	278.83	278.12	279.06	278.99	278.77	278.51	278.28	278.15	277.97	277.94	
22	277.86	278.15	278.80	278.12	279.42	278.94	278.73	278.51	278.28	278.14	277.97	277.94	
23	277.89	278.00	278.66	278.17	279.22	278.88	278.69	278.50	278.28	278.14	277.98	277.94	
24	277.92	278.12	278.51	278.35	279.75	279.40	278.65	278.48	278.28	278.15	277.98	277.93	
25	277.88	278.11	278.37	278.37	279.59	280.11	278.64	278.48	278.28	278.15	278.00	277.93	
26	277.99	278.19	278.40	278.46	279.31	280.66	278.65	278.47	278.28	278.15	278.00	277.93	
27	278.31	278.12	278.36	278.54	279.59	280.01	278.65	278.46	278.26	278.14	278.00	277.92	
28	278.27	278.04	278.29	278.68	279.66	279.75	278.64	278.44	278.25	278.12	277.99	277.91	
29	278.20	278.00	278.22	279.05	279.26	279.36	278.61	278.42	278.25	278.11		277.90	
30	278.03	278.06	278.17	278.85	279.01	279.16	278.58	278.42	278.25	278.09		277.90	
31		278.04		278.71	278.92		278.57		278.24	278.09		277.90	
Mean	277.88	278.01	278.35	278.26	278.90	279.34	278.92	278.60	278.33	278.18	278.04	277.94	
Max	278.31	278.21	279.00	279.05	279.75	280.66	280.52	278.87	278.42	278.25	278.10	278.01	280.66
Min	277.76	277.81	277.90	278.03	278.41	278.82	278.57	278.42	278.24	278.09	277.97	277.90	277.76

Annual Max Momentary Gage Height 281.69 M (MSL), at 11.00 Hours, on Oct 10, 1996
Zero Gage at Bottom Elevation 275.80 M (MSL), River Bed 282.15 M (MSL)
Left Bank Elevation 285.00 M (MSL)
Right Bank Elevation 282.25 M (MSL), Drainage Area 3853 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.97	12.90	15.80	19.86	47.75	76.70	76.70	41.40	26.18	18.10	12.06	9.00	
2	7.97	11.54	16.20	19.02	49.70	94.60	70.30	44.40	26.18	18.10	12.40	9.34	
3	7.73	13.24	14.26	19.44	54.50	229.00	67.90	49.20	26.18	18.10	12.06	9.00	
4	7.49	15.80	12.22	17.40	58.75	241.00	65.50	46.20	26.18	17.26	11.72	9.00	
5	7.49	19.44	11.20	16.60	67.90	146.40	84.90	43.20	25.10	17.26	12.06	8.74	
6	7.26	23.28	13.92	17.00	72.70	102.80	90.00	47.40	25.10	16.84	11.72	8.74	
7	7.49	19.44	22.80	16.60	61.00	84.05	81.50	52.20	25.10	16.00	11.04	7.96	
8	7.73	15.40	31.92	15.80	51.70	83.20	76.70	50.40	25.10	16.00	10.70	7.96	
9	7.73	13.24	30.84	19.02	44.50	78.30	69.50	45.60	24.61	16.00	10.70	7.96	
10	7.73	12.90	26.16	16.60	40.30	69.50	231.40	40.20	23.63	16.42	10.70	7.70	
11	7.73	11.88	24.24	16.60	35.75	83.20	111.70	37.20	23.14	17.26	10.70	7.70	
12	7.49	10.60	17.80	19.44	33.55	72.70	76.60	36.00	22.16	16.42	11.04	7.44	
13	10.60	10.60	33.55	27.60	37.40	61.00	67.30	34.90	22.16	16.42	11.04	6.92	
14	10.30	10.60	32.46	29.22	40.30	59.50	58.90	34.35	22.16	16.00	10.70	6.92	
15	10.00	9.40	33.00	29.76	35.75	84.90	54.00	34.90	22.16	15.64	10.70	6.92	
16	10.00	8.50	52.40	23.28	39.70	88.30	49.80	33.25	21.18	15.28	10.36	6.92	
17	10.60	9.70	73.50	19.86	43.90	79.90	46.80	32.70	21.18	15.28	10.02	6.92	
18	9.70	11.88	48.40	18.20	42.70	76.70	44.40	32.70	20.20	14.92	9.68	6.92	
19	8.80	17.40	36.85	17.40	42.70	75.90	43.20	32.70	20.20	14.56	9.34	6.92	
20	8.20	18.20	35.20	17.80	69.50	75.10	44.40	32.70	20.20	14.56	8.74	7.44	
21	12.90	16.20	60.25	19.44	78.30	72.70	46.20	31.05	19.36	14.20	8.22	7.44	
22	10.00	20.70	58.00	19.44	110.12	68.70	43.80	31.05	19.36	13.84	8.22	7.44	
23	10.90	14.60	48.40	21.54	91.84	64.00	41.40	30.50	19.36	13.84	8.48	7.44	
24	11.88	19.44	39.10	30.30	143.25	108.20	39.00	29.42	19.36	14.20	8.48	7.18	
25	10.60	19.02	31.38	31.38	126.53	182.65	38.40	29.42	19.36	14.20	9.00	7.18	
26	14.26	22.38	33.00	36.30	100.10	248.50	39.00	28.88	19.36	14.20	9.00	7.18	
27	28.14	19.44	30.84	40.90	126.53	171.15	39.00	28.34	18.52	13.84	9.00	6.92	
28	26.16	16.20	27.12	49.70	133.80	143.25	38.40	27.26	18.10	13.12	8.74	6.66	
29	22.80	14.60	23.76	77.50	95.52	104.60	36.60	26.18	18.10	12.76		6.40	
30	15.80	17.00	21.54	61.75	74.30	86.60	34.90	26.18	18.10	12.06		6.40	
31		16.20		51.70	67.10		34.35		17.68	12.06		6.40	
Total	333.45	471.72	956.11	836.45	2117.44	3213.10	1942.55	1089.88	674.76	474.74	286.62	233.06	12629.88 CMSDAY
Mean	11.12	15.22	31.87	26.98	68.30	107.10	62.66	36.33	21.77	15.31	10.24	7.52	34.60 CMS
Max	28.14	23.28	73.50	77.50	143.25	248.50	231.40	52.20	26.18	18.10	12.40	9.34	248.50 CMS
Min	7.26	8.50	11.20	15.80	33.55	59.50	34.35	26.18	17.68	12.06	8.22	6.40	6.40 CMS
Runoff	28.810	40.757	82.608	72.269	182.947	277.612	167.836	94.166	58.299	41.018	24.764	20.136	1091.222 MCM

Momentary Peak 390.50 CMS, at 281.69 M (MSL), at 11.00 Hours, on Oct 10, 1996
Runoff Yield 8.98 Liters/Second/Square KM, Momentary Peak Yield 101.350 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

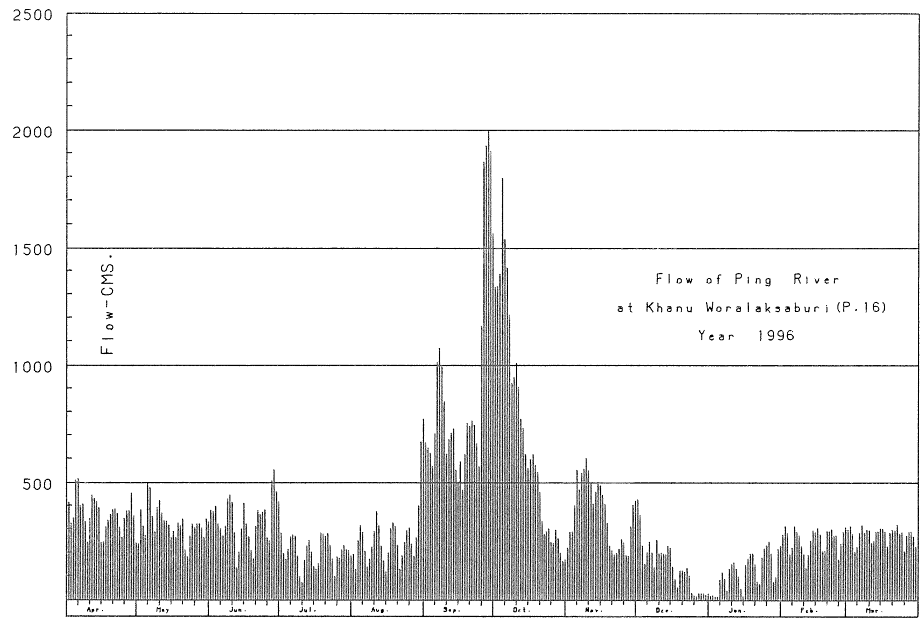
Ping River at Khanu Woralaksaburi, Kamphaeng Phet (P.16)

Location	Lat. 16°-03′-42″ N., Long. 99°-51′-51″ E., on right bank behind the Post Office Amphoe Khanu Woralaksaburi, Kamphaeng Phet.
Drainage Area	45,677 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+41.78 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank near the automatic gage building.
Elevation	+46.604.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	1960, 1967 - 1974, 1990 to date.
Rated by Float	-
Rated by Current Meter	1960, 1964 - 1975, 1979, 1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 45.02 m.(M.S.L.), records are channel flow only.
General Description	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 32 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.53	43.04	43.44	43.18	42.90	44.09	45.22	42.99	43.56	42.08	43.16	43.22	
2	43.30	43.45	43.43	42.92	42.67	44.04	45.22	43.19	43.39	42.10	43.27	43.27	
3	43.36	43.27	43.49	42.83	43.09	44.00	45.30	43.20	43.02	42.05	43.18	43.17	
4	43.75	43.15	43.29	42.97	43.27	43.88	45.86	43.49	42.76	42.03	42.90	42.94	
5	43.77	43.72	43.23	43.14	43.19	44.17	45.51	43.85	42.92	42.49	42.99	43.00	
6	43.49	43.68	43.15	43.16	42.95	44.71	45.34	43.66	43.07	42.63	43.27	43.18	
7	43.51	43.38	43.27	43.15	42.72	44.81	45.04	43.82	42.93	42.52	43.20	43.28	
8	43.32	43.20	43.56	42.88	42.83	44.68	44.56	43.86	42.70	42.27	43.15	43.19	
9	43.07	43.47	43.60	42.55	43.00	44.42	44.60	43.95	43.10	42.68	43.02	43.22	
10	43.35	43.55	43.53	42.45	43.20	43.99	44.71	43.84	42.92	42.76	42.91	43.22	
11	43.60	43.41	43.19	42.81	43.43	44.12	44.53	43.73	42.92	42.78	42.70	43.06	
12	43.57	43.33	42.70	43.02	43.27	44.17	44.29	43.51	42.91	42.69	42.89	43.08	
13	43.53	43.32	42.93	43.09	43.02	44.21	44.21	43.64	42.90	42.55	43.09	43.20	
14	43.47	43.28	43.23	42.93	42.81	43.85	43.99	43.73	43.01	42.32	43.22	43.20	
15	43.06	43.12	43.52	42.72	42.63	43.73	43.86	43.70	42.99	42.05	43.19	43.24	
16	43.07	43.20	43.29	42.67	42.92	43.92	43.94	43.60	42.72	42.74	43.24	43.24	
17	43.26	43.13	43.14	42.76	43.24	43.65	43.99	43.51	42.51	42.84	43.17	43.20	
18	43.33	43.30	42.95	43.19	43.31	43.99	43.89	43.30	42.34	42.91	42.95	43.01	
19	43.40	43.27	42.84	43.17	43.26	44.25	43.83	43.02	42.65	42.92	42.95	43.19	
20	43.45	43.35	43.26	43.14	43.03	44.23	43.63	42.95	42.66	42.75	43.21	43.22	
21	43.45	42.96	43.44	43.18	42.68	44.27	43.32	42.89	42.63	42.46	43.20	43.22	
22	43.41	42.87	43.40	43.03	42.88	44.24	43.17	42.92	42.70	42.42	43.23	43.28	
23	43.25	43.15	43.42	42.83	43.07	44.08	43.20	42.98	42.56	42.86	43.15	43.18	
24	43.13	43.29	43.45	42.56	43.21	43.88	43.24	43.11	42.21	42.98	43.15	43.19	
25	43.35	43.25	43.13	42.87	43.25	44.97	43.07	43.06	42.09	43.03	42.83	42.95	
26	43.43	43.29	43.08	42.84	43.04	45.95	43.05	42.89	42.05	43.08	43.04	43.15	
27	43.44	43.30	43.75	42.97	42.88	46.04	43.22	42.87	42.20	42.91	43.20	43.20	
28	43.62	43.24	43.85	43.02	43.13	46.12	43.12	43.26	42.18	42.46	43.25	43.20	
29	43.38	43.13	43.64	42.97	43.49	46.01	42.92	43.50	42.19	42.54		43.14	
30	43.06	43.35	43.53	42.95	44.10	45.54	42.80	43.54	42.10	42.97		43.01	
31		43.31		42.88	44.29		42.82		42.17	43.02		43.17	
Mean	43.39	43.28	43.32	42.93	43.12	44.47	44.05	43.39	42.68	42.61	43.10	43.16	
Max	43.77	43.72	43.85	43.19	44.29	46.12	45.86	43.95	43.56	43.08	43.27	43.28	46.12
Min	43.06	42.87	42.70	42.45	42.63	43.65	42.80	42.87	42.05	42.03	42.70	42.94	42.03

Annual Max Momentary Gage Height	46.14 M (MSL), at 23.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation	41.78 M (MSL), River Bed 40.72 M (MSL)
Left Bank Elevation	45.01 M (MSL)
Right Bank Elevation	46.60 M (MSL), Drainage Area 45677 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	419.3	239.1	383.0	286.0	195.0	672.2	1335.6	223.4	431.6	18.4	279.0	300.0	
2	328.0	387.0	379.0	201.3	130.2	647.9	1335.6	289.5	363.1	20.0	317.5	317.5	
3	351.4	317.5	403.0	175.1	254.9	628.5	1390.0	293.0	232.8	16.0	286.0	282.5	
4	511.5	275.5	324.5	217.1	317.5	570.6	1799.2	403.0	155.1	14.4	195.0	207.6	
5	520.1	498.6	303.5	272.0	289.5	712.7	1540.3	556.5	201.3	85.7	223.4	226.5	
6	403.0	481.6	275.5	279.0	210.8	1013.9	1418.0	473.2	248.6	119.8	317.5	286.0	
7	411.1	359.2	317.5	275.5	143.7	1073.5	1215.4	542.4	204.4	92.8	293.0	321.0	
8	335.8	293.0	431.6	189.3	175.1	996.4	926.8	561.2	138.0	41.2	275.5	289.5	
9	248.6	395.0	448.0	100.0	226.5	846.4	950.0	604.2	258.0	132.8	232.8	300.0	
10	347.5	427.5	419.3	76.5	293.0	623.7	1013.9	551.8	201.3	155.1	198.1	300.0	
11	448.0	371.0	289.5	169.4	379.0	687.2	909.4	502.9	201.3	160.8	138.0	245.4	
12	435.7	339.7	138.0	232.8	317.5	712.7	774.8	411.1	198.1	135.4	192.1	251.7	
13	419.3	335.8	204.4	254.9	232.8	733.2	733.2	464.8	195.0	100.0	254.9	293.0	
14	395.0	321.0	303.5	204.4	169.4	556.5	623.7	502.9	229.6	49.8	300.0	293.0	
15	245.4	265.0	415.2	143.7	119.8	502.9	561.2	490.0	223.4	16.0	289.5	307.0	
16	248.6	293.0	324.5	130.2	201.3	589.7	599.4	448.0	143.7	149.4	307.0	307.0	
17	314.0	268.5	272.0	155.1	307.0	469.0	623.7	411.1	90.4	177.9	282.5	293.0	
18	339.7	328.0	210.8	289.5	331.9	623.7	575.3	328.0	53.6	198.1	210.8	229.6	
19	367.0	317.5	177.9	282.5	314.0	754.0	547.1	232.8	125.0	201.3	210.8	289.5	
20	387.0	347.5	314.0	272.0	235.9	743.6	460.6	210.8	127.6	152.2	296.5	300.0	
21	387.0	213.9	383.0	286.0	132.8	764.4	335.8	192.1	119.8	78.8	293.0	300.0	
22	371.0	186.4	367.0	235.9	189.3	748.8	282.5	201.3	138.0	69.6	303.5	321.0	
23	310.5	275.5	375.0	175.1	248.6	667.3	293.0	220.2	102.4	183.6	275.5	286.0	
24	268.5	324.5	387.0	102.4	296.5	570.6	307.0	261.5	31.6	220.2	275.5	289.5	
25	347.5	310.5	268.5	186.4	310.5	1170.4	248.6	245.4	19.2	235.9	175.1	210.8	
26	379.0	324.5	251.7	177.9	239.1	1867.0	242.3	192.1	16.0	251.7	239.1	275.5	
27	383.0	328.0	511.5	217.1	189.3	1937.0	300.0	186.4	30.0	198.1	293.0	293.0	
28	456.4	307.0	556.5	232.8	268.5	2001.0	265.0	314.0	28.0	78.8	310.5	293.0	
29	359.2	268.5	464.8	217.1	403.0	1913.0	201.3	407.0	29.0	97.6		272.0	
30	245.4	347.5	419.3	210.8	677.0	1562.4	166.5	423.4	20.0	217.1		229.6	
31		331.9		189.3	774.8		172.2		27.0	232.8		282.5	
Total	10983.5	10079.2	10319.0	6437.1	8574.2	27360.2	22147.4	11144.0	4582.9	3901.3	7265.1	8692.7	131486.6 CMSDAY
Mean	366.1	325.1	344.0	207.6	276.6	912.0	714.4	371.5	147.8	125.8	259.5	280.4	360.2 CMS
Max	520.1	498.6	556.5	289.5	774.8	2001.0	1799.2	604.2	431.6	251.7	317.5	321.0	2001.0 CMS
Min	245.4	186.4	138.0	76.5	119.8	469.0	166.5	186.4	16.0	14.4	138.0	207.6	14.4 CMS
Runoff	948.97	870.84	891.56	556.17	740.81	2363.92	1913.54	962.84	395.96	337.07	627.70	751.05	11360.44 MCM

Momentary Peak 2017.00 CMS, at 46.14 M (MSL), at 23.00 Hours, on Sep 28, 1996

Runoff Yield 7.89 Liters/Second/Square KM, Momentary Peak Yield 44.158 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

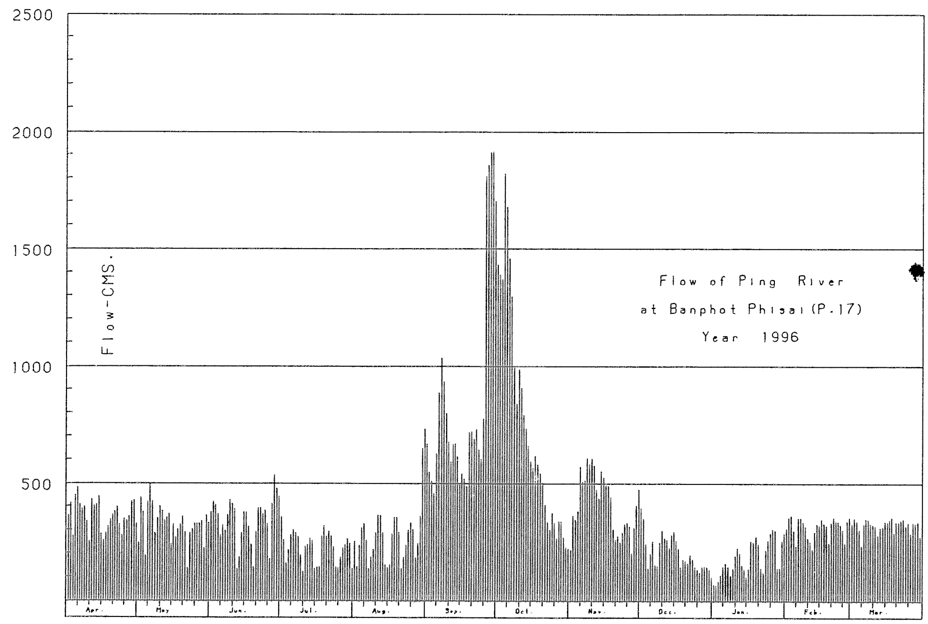
Ping River at Banphot Phisai, Nakhon Sawan (P.17)

Location	Lat. 15°-56'-02" N., Long. 99°-58'-49" E., on right bank at Som Sieo Market, Amphoe Banphot Phisai, Nakhon Sawan.
Drainage Area	45,851 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+32.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 5.00 meters from the top staff gage.
Elevation	+37.940 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1960, 1967 - 1974, 1990 to date.
Rated by Float	-
Rated by Current Meter	1954 - 1979, 1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 37.78 m.(M.S.L.), records are channel flow only.
General Description	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 21 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.58	35.20	35.62	35.56	35.22	36.34	37.54	35.10	35.66	34.33	35.40	35.47	
2	35.72	35.79	35.74	35.24	34.82	36.06	37.49	35.57	35.54	34.30	35.55	35.54	
3	35.30	35.62	35.70	35.03	35.17	35.97	37.47	35.52	35.18	34.43	35.58	35.51	
4	35.81	35.07	35.60	35.10	35.41	35.83	37.90	35.63	34.94	34.60	35.38	35.38	
5	35.90	35.74	35.31	35.31	35.48	36.25	37.78	36.12	35.08	34.84	35.15	35.16	
6	35.71	35.93	35.45	35.39	35.24	36.77	37.57	35.96	35.22	35.03	35.54	35.47	
7	35.65	35.74	35.38	35.34	34.96	37.02	37.38	35.98	35.02	34.85	35.55	35.53	
8	35.68	35.34	35.59	35.29	35.06	36.85	36.95	36.20	34.80	34.60	35.50	35.53	
9	35.50	35.55	35.76	35.07	35.11	36.61	36.69	36.14	35.20	34.98	35.43	35.47	
10	35.22	35.69	35.72	34.70	35.34	36.36	36.94	36.20	35.38	35.07	35.27	35.46	
11	35.76	35.63	35.65	35.15	35.58	36.16	36.81	36.13	35.27	35.12	35.21	35.43	
12	35.69	35.52	34.99	35.17	35.58	36.34	36.59	35.87	35.24	35.08	35.11	35.31	
13	35.70	35.55	35.06	35.27	35.35	36.34	36.48	35.78	35.13	35.02	35.35	35.41	
14	35.80	35.60	35.34	35.23	35.02	36.22	36.32	36.07	35.31	34.74	35.47	35.43	
15	35.32	35.18	35.62	34.99	34.87	35.93	36.17	36.01	35.36	34.55	35.44	35.50	
16	35.23	35.46	35.61	34.85	35.02	36.04	36.10	35.92	35.23	35.00	35.53	35.50	
17	35.34	35.28	35.43	34.85	35.33	35.99	36.22	35.92	35.12	35.22	35.48	35.52	
18	35.43	35.39	35.18	35.30	35.55	35.91	36.14	35.79	34.88	35.21	35.44	35.55	
19	35.53	35.47	35.01	35.44	35.56	36.45	36.05	35.40	35.05	35.29	35.20	35.35	
20	35.59	35.56	35.36	35.29	35.35	36.45	35.95	35.24	35.04	35.18	35.49	35.49	
21	35.62	35.35	35.66	35.37	34.96	36.39	35.70	35.29	35.03	34.95	35.55	35.50	
22	35.68	34.92	35.67	35.30	35.06	36.47	35.50	35.21	35.07	34.67	35.51	35.52	
23	35.46	35.34	35.59	35.14	35.17	36.29	35.39	35.35	35.05	35.10	35.50	35.53	
24	35.31	35.40	35.64	34.79	35.38	36.19	35.61	35.46	34.86	35.23	35.46	35.44	
25	35.53	35.48	35.47	34.95	35.49	36.56	35.48	35.49	34.74	35.34	35.38	35.48	
26	35.52	35.47	35.05	35.06	35.39	37.89	35.26	35.43	34.66	35.39	35.19	35.33	
27	35.56	35.48	35.72	35.13	35.06	37.93	35.51	35.08	34.83	35.38	35.51	35.49	
28	35.74	35.51	36.03	35.17	35.19	37.97	35.50	35.42	34.82	34.99	35.55	35.47	
29	35.76	35.13	35.89	35.26	35.57	37.97	35.28	35.69	34.83	34.77		35.50	
30	35.47	35.58	35.80	35.19	36.30	37.80	35.14	35.88	34.73	35.23		35.29	
31		35.48		34.95	36.48		35.11		34.54	35.33		35.46	
Mean	35.57	35.47	35.52	35.16	35.32	36.58	36.32	35.69	35.06	34.96	35.42	35.45	
Max	35.90	35.93	36.03	35.56	36.48	37.97	37.90	36.20	35.66	35.39	35.58	35.55	37.97
Min	35.22	34.92	34.99	34.70	34.82	35.83	35.11	35.08	34.54	34.30	35.11	35.16	34.30

Annual Max Momentary Gage Height 37.97 M (MSL), at 12.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 32.00 M (MSL), River Bed 31.68 M (MSL)
Left Bank Elevation 38.02 M (MSL)
Right Bank Elevation 37.77 M (MSL), Drainage Area 45851 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	367.0	249.0	381.3	360.0	255.0	670.4	1436.8	220.0	395.9	71.9	309.0	330.0	
2	417.8	443.4	425.1	261.0	148.0	550.2	1391.5	363.5	353.0	67.5	356.5	353.0	
3	279.0	381.3	410.5	163.3	240.3	513.3	1374.5	346.0	243.2	86.4	367.0	342.5	
4	450.9	195.7	374.0	220.0	312.0	458.7	1822.0	385.0	142.0	111.0	303.0	303.0	
5	486.0	425.1	282.0	282.0	333.0	630.8	1683.0	575.5	203.8	147.0	234.5	237.4	
6	414.2	497.7	324.0	306.0	261.0	887.9	1464.4	509.4	255.0	163.3	353.0	330.0	
7	392.3	425.1	303.0	291.0	141.0	1039.2	1299.0	517.2	155.2	146.5	356.5	349.5	
8	403.2	291.0	370.5	276.0	187.6	935.0	995.5	609.5	149.0	111.0	339.0	349.5	
9	339.0	356.5	432.4	195.7	222.9	802.6	842.9	584.0	249.0	140.0	318.0	330.0	
10	255.0	406.8	417.8	128.0	291.0	679.6	989.4	609.5	303.0	195.7	270.0	327.0	
11	432.4	385.0	392.3	234.5	367.0	592.5	911.0	579.8	270.0	225.8	252.0	318.0	
12	406.8	346.0	139.5	240.3	367.0	670.4	792.4	474.3	261.0	203.8	222.9	282.0	
13	410.5	356.5	187.6	270.0	294.0	670.4	737.2	439.7	228.7	155.2	294.0	312.0	
14	447.0	374.0	291.0	258.0	155.2	618.0	661.2	554.4	282.0	136.4	330.0	318.0	
15	285.0	243.2	381.3	139.5	145.5	497.7	596.7	529.2	297.0	103.8	321.0	339.0	
16	258.0	327.0	377.7	146.5	155.2	541.8	567.0	493.8	258.0	139.0	349.5	339.0	
17	291.0	273.0	318.0	146.5	288.0	521.1	618.0	493.8	225.8	255.0	333.0	346.0	
18	318.0	306.0	243.2	279.0	356.5	489.9	584.0	443.4	145.0	252.0	321.0	356.5	
19	349.5	330.0	147.1	321.0	360.0	722.5	546.0	309.0	179.5	276.0	249.0	294.0	
20	370.5	360.0	297.0	276.0	294.0	722.5	505.5	261.0	171.4	243.2	336.0	336.0	
21	381.3	294.0	395.9	300.0	141.0	693.4	410.5	276.0	163.3	141.5	356.5	339.0	
22	403.2	143.0	399.5	279.0	187.6	732.3	339.0	252.0	195.7	122.9	342.5	346.0	
23	327.0	291.0	370.5	231.6	240.3	647.8	306.0	294.0	179.5	220.0	339.0	349.5	
24	282.0	309.0	388.6	146.9	303.0	605.2	377.7	327.0	146.0	258.0	327.0	321.0	
25	349.5	333.0	330.0	141.5	336.0	777.3	333.0	336.0	136.4	291.0	303.0	333.0	
26	346.0	330.0	179.5	187.6	306.0	1810.3	267.0	318.0	121.2	306.0	246.1	288.0	
27	360.0	333.0	417.8	228.7	187.6	1861.9	342.5	203.8	147.5	303.0	342.5	336.0	
28	425.1	342.5	537.6	240.3	246.1	1915.1	339.0	315.0	148.0	139.5	356.5	330.0	
29	432.4	228.7	482.1	267.0	363.5	1915.1	273.0	406.8	147.5	142.7		339.0	
30	330.0	367.0	447.0	246.1	652.0	1705.0	231.6	478.2	134.3	258.0		276.0	
31		333.0		141.5	737.2		222.9		102.3	288.0		327.0	
Total	11009.6	10276.5	10443.8	7204.5	8874.5	25877.9	23260.2	12504.8	6389.2	5701.1	8828.0	10076.9	140447.0 CMSDAY
Mean	367.0	331.5	348.1	232.4	286.3	862.6	750.3	416.8	206.1	183.9	315.3	325.1	384.8 CMS
Max	486.0	497.7	537.6	360.0	737.2	1915.1	1822.0	609.5	395.9	306.0	367.0	356.5	1915.1 CMS
Min	255.0	143.0	139.5	128.0	141.0	458.7	222.9	203.8	102.3	67.5	222.9	237.4	67.5 CMS
Runoff	951.23	887.89	902.34	622.47	766.76	2235.85	2009.68	1080.41	552.03	492.58	762.74	870.64	12134.62 MCM

Momentary Peak 1915.10 CMS, at 37.97 M (MSL), at 12.00 Hours, on Sep 28, 1996

Runoff Yield 8.39 Liters/Second/Square KM, Momentary Peak Yield 41.768 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

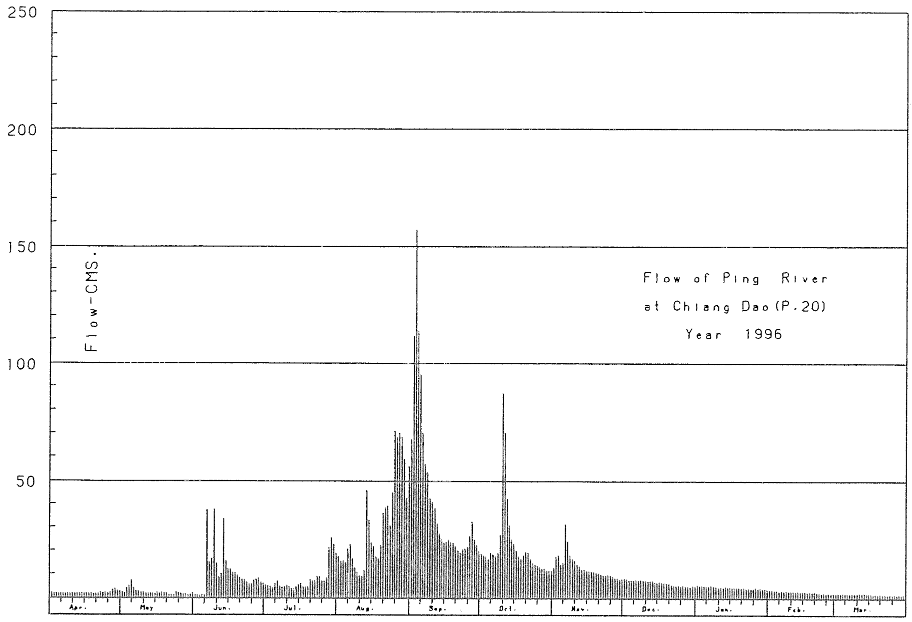
Ping River at Chiang Dao, Chiang Mai (P.20)

Location	Lat. 19°-21′-09″ N., Long. 98°-58′-25″ 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, 1989 to date.
Rated by Float	-
Rated by Current Meter	1979 - 1982, 1989 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	NO overbank flow.
General Description	Records good. Flow effected by the local weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 37 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	0.56	0.44	0.39	0.70	1.37	0.72	0.60	0.48	0.39	0.31	0.23	
2	0.52	0.55	0.40	0.37	0.66	1.83	0.71	0.70	0.47	0.38	0.30	0.23	
3	0.50	0.70	0.40	0.36	0.66	2.23	0.70	0.71	0.46	0.38	0.30	0.23	
4	0.50	0.79	0.41	0.34	0.65	1.85	0.68	0.63	0.46	0.38	0.29	0.23	
5	0.50	0.97	0.41	0.41	0.76	1.67	0.73	0.64	0.46	0.37	0.28	0.23	
6	0.50	0.73	1.01	0.45	0.80	1.40	0.72	0.93	0.46	0.37	0.28	0.23	
7	0.50	0.61	0.65	0.37	0.68	1.24	0.70	0.82	0.46	0.38	0.28	0.23	
8	0.50	0.58	0.68	0.34	0.60	1.20	0.73	0.71	0.46	0.37	0.28	0.23	
9	0.50	0.56	1.01	0.36	0.55	1.07	0.86	0.68	0.46	0.36	0.28	0.23	
10	0.50	0.55	0.64	0.39	0.51	1.05	1.59	0.66	0.45	0.35	0.28	0.23	
11	0.50	0.52	0.50	0.36	0.51	1.02	1.40	0.63	0.45	0.35	0.27	0.23	
12	0.50	0.50	0.53	0.33	0.57	0.93	1.07	0.61	0.45	0.35	0.27	0.23	
13	0.52	0.52	0.96	0.32	1.11	0.87	0.92	0.58	0.45	0.36	0.27	0.23	
14	0.52	0.50	0.66	0.36	0.95	0.83	0.83	0.58	0.43	0.35	0.27	0.23	
15	0.51	0.50	0.58	0.39	0.81	0.81	0.80	0.57	0.43	0.35	0.26	0.22	
16	0.50	0.55	0.58	0.41	0.78	0.81	0.75	0.56	0.43	0.35	0.27	0.22	
17	0.51	0.51	0.55	0.36	0.70	0.83	0.70	0.56	0.43	0.34	0.26	0.21	
18	0.51	0.55	0.54	0.35	0.68	0.81	0.68	0.55	0.42	0.35	0.26	0.21	
19	0.50	0.54	0.52	0.36	0.79	0.81	0.71	0.55	0.42	0.34	0.26	0.21	
20	0.48	0.50	0.49	0.46	0.99	0.78	0.74	0.54	0.41	0.34	0.26	0.21	
21	0.51	0.43	0.47	0.45	1.02	0.75	0.73	0.53	0.40	0.34	0.25	0.21	
22	0.56	0.41	0.46	0.45	1.03	0.73	0.68	0.52	0.38	0.33	0.24	0.20	
23	0.55	0.42	0.43	0.51	0.92	0.76	0.64	0.52	0.38	0.33	0.24	0.20	
24	0.54	0.55	0.40	0.50	1.10	0.76	0.63	0.52	0.38	0.33	0.24	0.20	
25	0.53	0.52	0.41	0.45	1.41	0.78	0.62	0.52	0.38	0.33	0.23	0.20	
26	0.56	0.52	0.45	0.44	1.38	0.85	0.60	0.50	0.38	0.34	0.23	0.20	
27	0.67	0.48	0.47	0.49	1.40	0.94	0.59	0.49	0.37	0.33	0.23	0.20	
28	0.69	0.45	0.48	0.77	1.38	0.83	0.59	0.48	0.36	0.33	0.23	0.20	
29	0.63	0.43	0.43	0.84	1.27	0.79	0.57	0.47	0.36	0.32		0.20	
30	0.60	0.42	0.41	0.80	1.07	0.74	0.56	0.47	0.37	0.32		0.20	
31		0.53		0.73	1.23		0.56		0.37	0.31		0.20	
Mean	0.53	0.55	0.55	0.45	0.89	1.04	0.76	0.59	0.42	0.35	0.27	0.22	
Max	0.69	0.97	1.01	0.84	1.41	2.23	1.59	0.93	0.48	0.39	0.31	0.23	2.23
Min	0.48	0.41	0.40	0.32	0.51	0.73	0.56	0.47	0.36	0.31	0.23	0.20	0.20

Annual Max Momentary Gage Height 2.30 M (A.D), at 6.00 Hours, on Sep 3, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.97 M (A.D)
Left Bank Elevation 3.88 M (A.D)
Right Bank Elevation 3.43 M (A.D), Drainage Area 1355 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.37	2.64	1.68	5.76	17.80	67.88	18.88	13.20	8.56	5.76	3.84	2.20	
2	2.28	2.55	1.40	5.28	15.96	111.65	18.34	17.80	8.24	5.52	3.60	2.20	
3	2.10	4.20	1.40	5.04	15.96	157.25	17.80	18.34	7.92	5.52	3.60	2.20	
4	2.10	5.28	1.47	4.56	15.50	113.75	16.88	14.58	7.92	5.52	3.40	2.20	
5	2.10	7.92	1.47	6.32	21.04	95.50	19.42	15.04	7.92	5.28	3.20	2.20	
6	2.10	4.56	37.82	7.60	23.20	70.40	18.88	31.82	7.92	5.28	3.20	2.20	
7	2.10	3.12	15.50	5.28	16.88	56.96	17.80	24.48	7.92	5.52	3.20	2.20	
8	2.10	2.82	16.88	4.56	13.20	53.60	19.42	18.34	7.92	5.28	3.20	2.20	
9	2.10	2.64	37.82	5.04	11.20	42.74	27.04	16.88	7.92	5.04	3.20	2.20	
10	2.10	2.55	15.04	5.76	9.60	41.10	87.55	15.96	7.60	4.80	3.20	2.20	
11	2.10	2.28	9.20	5.04	9.60	38.64	70.40	14.58	7.60	4.80	3.00	2.20	
12	2.10	2.10	10.40	4.32	12.00	31.82	42.74	13.66	7.60	4.80	3.00	2.20	
13	2.28	2.28	34.04	4.08	46.04	27.68	31.08	12.40	7.60	5.04	3.00	2.20	
14	2.28	2.10	15.96	5.04	33.30	25.12	25.12	12.40	6.96	4.80	3.00	2.20	
15	2.19	2.10	12.40	5.76	23.84	23.84	23.20	12.00	6.96	4.80	2.80	2.00	
16	2.10	2.55	12.40	6.32	22.12	23.84	20.50	11.60	6.96	4.80	3.00	2.00	
17	2.19	2.19	11.20	5.04	17.80	25.12	17.80	11.60	6.96	4.56	2.80	1.80	
18	2.19	2.55	10.80	4.80	16.88	23.84	16.88	11.20	6.64	4.80	2.80	1.80	
19	2.10	2.46	10.00	5.04	22.66	23.84	18.34	11.20	6.64	4.56	2.80	1.80	
20	1.96	2.10	8.88	7.92	36.26	22.12	19.96	10.80	6.32	4.56	2.80	1.80	
21	2.19	1.61	8.24	7.60	38.64	20.50	19.42	10.40	6.00	4.56	2.60	1.80	
22	2.64	1.47	7.92	7.60	39.46	19.42	16.88	10.00	5.52	4.32	2.40	1.60	
23	2.55	1.54	6.96	9.60	31.08	21.04	15.04	10.00	5.52	4.32	2.40	1.60	
24	2.46	2.55	6.00	9.20	45.20	21.04	14.58	10.00	5.52	4.32	2.40	1.60	
25	2.37	2.28	6.32	7.60	71.26	22.12	14.12	10.00	5.52	4.32	2.20	1.60	
26	2.64	2.28	7.60	7.28	68.72	26.40	13.20	9.20	5.52	4.56	2.20	1.60	
27	3.84	1.96	8.24	8.88	70.40	32.56	12.80	8.88	5.28	4.32	2.20	1.60	
28	4.08	1.75	8.56	21.58	68.72	25.12	12.80	8.56	5.04	4.32	2.20	1.60	
29	3.36	1.61	6.96	25.76	59.48	22.66	12.00	8.24	5.04	4.08		1.60	
30	3.00	1.54	6.32	23.20	42.74	19.96	11.60	8.24	5.28	4.08		1.60	
31		2.37		19.42	56.12		11.60		5.28	3.84		1.60	
Total	72.07	81.95	338.88	256.28	992.66	1307.51	702.07	401.40	209.60	148.08	81.24	59.80	4651.54 CMSDAY
Mean	2.40	2.64	11.30	8.27	32.02	43.58	22.65	13.38	6.76	4.78	2.90	1.93	12.74 CMS
Max	4.08	7.92	37.82	25.76	71.26	157.25	87.55	31.82	8.56	5.76	3.84	2.20	157.25 CMS
Min	1.96	1.47	1.40	4.08	9.60	19.42	11.60	8.24	5.04	3.84	2.20	1.60	1.40 CMS
Runoff	6.227	7.080	29.279	22.143	85.766	112.969	60.659	34.681	18.109	12.794	7.019	5.167	401.893 MCM

Momentary Peak 166.00 CMS, at 2.30 M (A.D), at 6.00 Hours, on Sep 3, 1996

Runoff Yield 9.41 Liters/Second/Square KM, Momentary Peak Yield 122.509 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

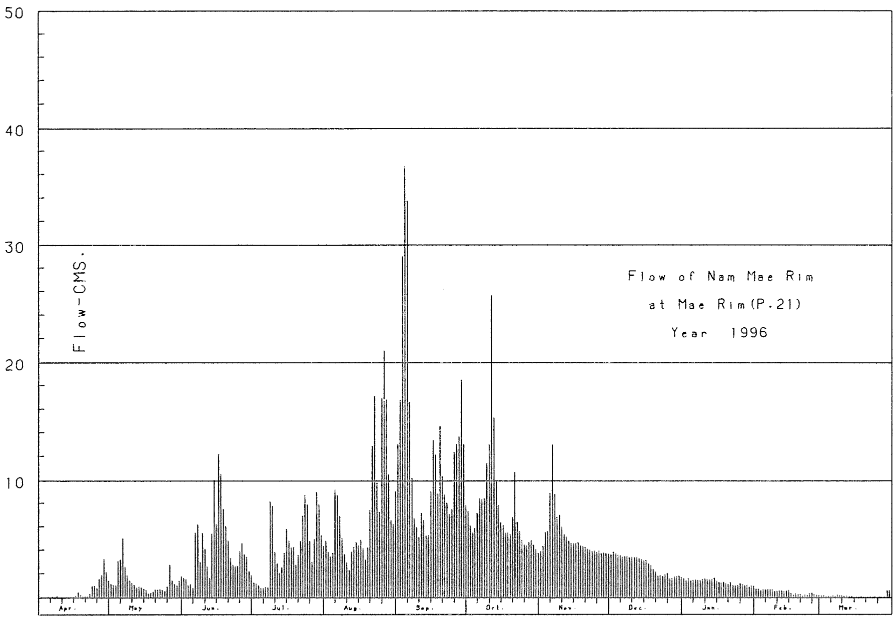
Nam Mae Rim at Mae Rim, Chiang Mai (P.21)

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	B.M.1 in the vicinity of gage observer's house. B.M.2 on left bank at the abutment of the bridge.
Elevation	B.M.1 = +323.982 m.(M.S.L.), B.M.2 = +323.562 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 47 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.12	320.45	320.53	320.47	320.87	321.47	321.08	320.78	320.76	320.52	320.38	320.21	
2	320.10	320.43	320.51	320.45	320.78	321.68	320.98	320.83	320.78	320.50	320.37	320.20	
3	320.10	320.43	320.43	320.43	320.74	322.17	320.93	320.93	320.77	320.52	320.35	320.18	
4	320.12	320.69	320.44	320.38	320.77	322.41	320.96	320.94	320.75	320.50	320.36	320.15	
5	320.12	320.71	320.39	320.39	321.22	322.32	321.07	321.20	320.75	320.50	320.37	320.16	
6	320.13	320.89	320.93	320.40	321.19	321.67	321.17	321.47	320.73	320.51	320.36	320.19	
7	320.16	320.64	320.99	320.40	321.05	321.29	321.16	321.20	320.74	320.50	320.37	320.20	
8	320.15	320.55	320.68	321.15	320.89	321.03	321.17	321.04	320.74	320.50	320.36	320.23	
9	320.11	320.50	320.93	321.12	320.76	320.97	321.37	321.06	320.73	320.51	320.34	320.23	
10	320.10	320.46	320.81	320.78	320.68	320.90	321.47	320.97	320.73	320.52	320.34	320.21	
11	320.09	320.44	320.64	320.67	320.61	321.07	322.05	320.92	320.73	320.51	320.34	320.15	
12	320.08	320.40	320.53	320.58	320.78	321.02	321.60	320.90	320.73	320.51	320.35	320.19	
13	320.10	320.41	320.92	320.63	320.82	320.91	321.27	320.87	320.72	320.51	320.33	320.18	
14	320.10	320.40	321.28	320.77	320.86	320.91	321.12	320.85	320.71	320.53	320.35	320.14	
15	320.16	320.37	320.99	320.96	320.83	321.21	321.00	320.85	320.70	320.49	320.35	320.14	
16	320.18	320.35	321.42	320.87	320.88	321.49	320.98	320.85	320.70	320.48	320.30	320.13	
17	320.32	320.30	321.31	320.82	320.81	321.42	320.93	320.86	320.67	320.46	320.25	320.13	
18	320.23	320.30	321.10	320.82	320.71	321.20	320.93	320.83	320.65	320.48	320.29	320.13	
19	320.18	320.33	320.98	320.66	320.82	321.56	320.92	320.83	320.62	320.45	320.27	320.15	
20	320.15	320.36	320.87	320.75	321.09	321.30	321.04	320.82	320.59	320.45	320.26	320.13	
21	320.17	320.36	320.72	320.87	321.46	321.19	321.32	320.81	320.55	320.47	320.21	320.13	
22	320.28	320.37	320.66	321.05	321.70	321.14	321.01	320.80	320.55	320.43	320.23	320.12	
23	320.42	320.35	320.64	321.19	321.26	321.06	320.94	320.79	320.55	320.42	320.24	320.11	
24	320.42	320.34	320.65	321.13	321.08	321.10	320.87	320.79	320.56	320.43	320.29	320.10	
25	320.39	320.41	320.79	320.87	321.69	321.43	320.84	320.78	320.58	320.46	320.31	320.09	
26	320.51	320.66	320.85	320.68	321.87	321.47	320.83	320.79	320.52	320.44	320.25	320.09	
27	320.56	320.50	320.76	320.88	321.68	321.51	320.86	320.77	320.52	320.43	320.24	320.08	
28	320.71	320.44	320.73	321.21	321.31	321.76	320.87	320.77	320.54	320.43	320.21	320.14	
29	320.59	320.43	320.60	321.13	321.02	321.47	320.84	320.77	320.54	320.41		320.35	
30	320.49	320.49	320.55	320.91	320.99	321.12	320.80	320.76	320.55	320.42		320.34	
31		320.54		320.83	321.21		320.77		320.53	320.42		320.33	
Mean	320.24	320.46	320.79	320.78	321.05	321.38	321.07	320.89	320.65	320.47	320.31	320.17	
Max	320.71	320.89	321.42	321.21	321.87	322.41	322.05	321.47	320.78	320.53	320.38	320.35	322.41
Min	320.08	320.30	320.39	320.38	320.61	320.90	320.77	320.76	320.52	320.41	320.21	320.08	320.08

Annual Max Momentary Gage Height 322.46 M (MSL), at 18.00 Hours, on Sep 4, 1996
Zero Gage at Bottom Elevation 319.70 M (MSL), River Bed 319.91 M (MSL)
Left Bank Elevation 322.58 M (MSL)
Right Bank Elevation 323.30 M (MSL), Drainage Area 515 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	1.20	1.74	1.32	4.87	13.09	7.36	3.92	3.74	1.66	0.80	0.22	
2	0.10	1.08	1.58	1.20	3.92	16.84	6.16	4.43	3.92	1.50	0.75	0.20	
3	0.10	1.08	1.08	1.08	3.56	29.10	5.56	5.56	3.83	1.66	0.65	0.18	
4	0.12	3.11	1.14	0.80	3.83	36.76	5.92	5.68	3.65	1.50	0.70	0.15	
5	0.12	3.29	0.85	0.85	9.20	33.84	7.24	8.90	3.65	1.50	0.75	0.16	
6	0.13	5.09	5.56	0.90	8.77	16.66	8.51	13.09	3.47	1.58	0.70	0.19	
7	0.16	2.66	6.28	0.90	7.00	10.25	8.38	8.90	3.56	1.50	0.75	0.20	
8	0.15	1.90	3.02	8.25	5.09	6.76	8.51	6.88	3.56	1.50	0.70	0.26	
9	0.11	1.50	5.56	7.86	3.74	6.04	11.45	7.12	3.47	1.58	0.60	0.26	
10	0.10	1.26	4.21	3.92	3.02	5.20	13.09	6.04	3.47	1.66	0.60	0.22	
11	0.09	1.14	2.66	2.93	2.39	7.24	25.70	5.44	3.47	1.58	0.60	0.15	
12	0.08	0.90	1.74	2.14	3.92	6.64	15.40	5.20	3.47	1.58	0.65	0.19	
13	0.10	0.96	5.44	2.57	4.32	5.32	9.95	4.87	3.38	1.58	0.55	0.18	
14	0.10	0.90	10.10	3.83	4.76	5.32	7.86	4.65	3.29	1.74	0.65	0.14	
15	0.16	0.75	6.28	5.92	4.43	9.05	6.40	4.65	3.20	1.44	0.65	0.14	
16	0.18	0.65	12.24	4.87	4.98	13.43	6.16	4.65	3.20	1.38	0.40	0.13	
17	0.50	0.40	10.55	4.32	4.21	12.24	5.56	4.76	2.93	1.26	0.30	0.13	
18	0.26	0.40	7.60	4.32	3.29	8.90	5.56	4.43	2.75	1.38	0.38	0.13	
19	0.18	0.55	6.16	2.84	4.32	14.68	5.44	4.43	2.48	1.20	0.34	0.15	
20	0.15	0.70	4.87	3.65	7.48	10.40	6.88	4.32	2.22	1.20	0.32	0.13	
21	0.17	0.70	3.38	4.87	12.92	8.77	10.70	4.21	1.90	1.32	0.22	0.13	
22	0.36	0.75	2.84	7.00	17.20	8.12	6.52	4.10	1.90	1.08	0.26	0.12	
23	1.02	0.65	2.66	8.77	9.80	7.12	5.68	4.01	1.90	1.02	0.28	0.11	
24	1.02	0.60	2.75	7.99	7.36	7.60	4.87	4.01	1.98	1.08	0.38	0.10	
25	0.85	0.96	4.01	4.87	17.02	12.41	4.54	3.92	2.14	1.26	0.45	0.09	
26	1.58	2.84	4.65	3.02	21.08	13.09	4.43	4.01	1.66	1.14	0.30	0.09	
27	1.98	1.50	3.74	4.98	16.84	13.78	4.76	3.83	1.66	1.08	0.28	0.08	
28	3.29	1.14	3.47	9.05	10.55	18.52	4.87	3.83	1.82	1.08	0.22	0.14	
29	2.22	1.08	2.30	7.99	6.64	13.09	4.54	3.83	1.82	0.96		0.65	
30	1.44	1.44	1.90	5.32	6.28	7.86	4.10	3.74	1.90	1.02		0.60	
31		1.82		4.43	9.05		3.83		1.74	1.02		0.55	
Total	16.94	43.00	130.36	132.76	231.84	378.12	235.93	157.41	87.13	42.04	14.23	6.17	1475.93 CMSDAY
Mean	0.56	1.39	4.35	4.28	7.48	12.60	7.61	5.25	2.81	1.36	0.51	0.20	4.04 CMS
Max	3.29	5.09	12.24	9.05	21.08	36.76	25.70	13.09	3.92	1.74	0.80	0.65	36.76 CMS
Min	0.08	0.40	0.85	0.80	2.39	5.20	3.83	3.74	1.66	0.96	0.22	0.08	0.08 CMS
Runoff	1.464	3.715	11.263	11.470	20.031	32.670	20.384	13.600	7.528	3.632	1.229	0.533	127.520 MCM

Momentary Peak 38.56 CMS, at 322.46 M (MSL), at 18.00 Hours, on Sep 4, 1996

Runoff Yield 7.85 Liters/Second/Square KM, Momentary Peak Yield 74.874 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

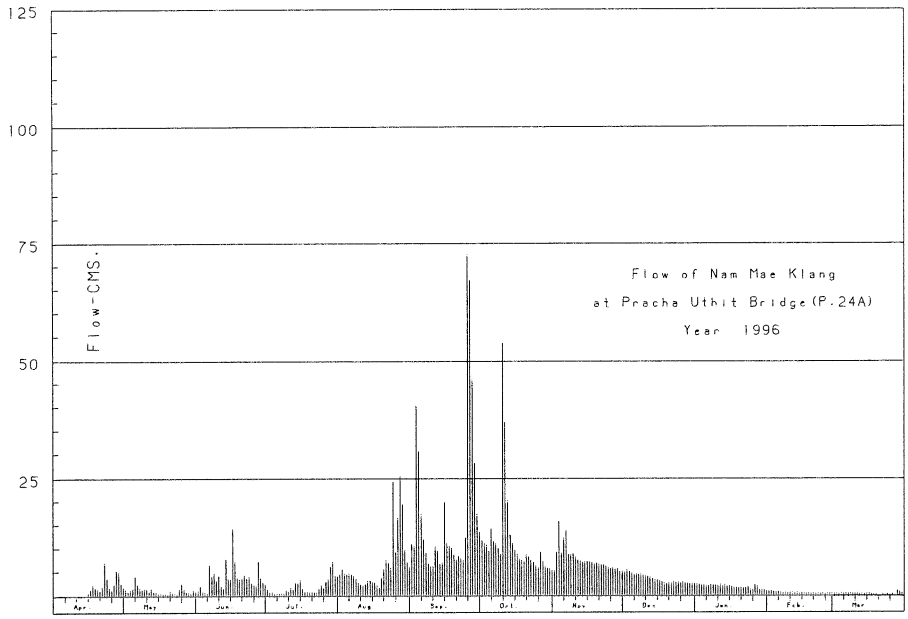
Nam Mae Klang at Pracha Uthit Bridge, Chiang Mai (P.24A)

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	+274.69 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 good. Stage-discharge relation defined by 43 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.48	275.65	275.63	275.66	275.90	276.28	276.32	275.95	275.93	275.75	275.63	275.58	
2	275.49	275.62	275.72	275.61	275.97	276.25	276.28	276.18	275.96	275.75	275.63	275.57	
3	275.48	275.64	275.62	275.61	275.91	277.44	276.26	276.53	275.94	275.73	275.62	275.56	
4	275.48	275.67	275.61	275.58	275.90	277.16	276.20	276.17	275.91	275.74	275.61	275.58	
5	275.49	275.87	275.59	275.57	275.91	276.60	276.45	276.34	275.90	275.73	275.62	275.58	
6	275.49	275.75	276.02	275.59	275.90	276.33	276.31	276.43	275.90	275.73	275.60	275.58	
7	275.48	275.69	275.87	275.57	275.87	276.18	276.28	276.16	275.90	275.74	275.60	275.58	
8	275.48	275.66	275.91	275.59	275.84	276.04	276.23	276.15	275.90	275.74	275.60	275.58	
9	275.48	275.67	275.80	275.64	275.77	276.00	276.15	276.17	275.89	275.73	275.59	275.58	
10	275.49	275.67	275.88	275.63	275.75	276.01	277.74	276.12	275.88	275.73	275.61	275.58	
11	275.47	275.62	275.72	275.69	275.73	276.25	277.35	276.09	275.87	275.74	275.60	275.58	
12	275.48	275.67	275.67	275.66	275.75	276.20	276.74	276.07	275.86	275.73	275.59	275.56	
13	275.47	275.62	276.10	275.76	275.80	276.04	276.38	276.06	275.84	275.74	275.61	275.56	
14	275.49	275.60	275.83	275.77	275.81	276.05	276.28	276.06	275.82	275.72	275.58	275.56	
15	275.58	275.58	275.82	275.81	275.78	276.73	276.21	276.07	275.82	275.72	275.58	275.56	
16	275.66	275.57	276.45	275.67	275.78	276.29	276.16	276.06	275.80	275.71	275.58	275.57	
17	275.74	275.57	276.06	275.62	275.73	276.25	276.10	276.06	275.79	275.70	275.58	275.56	
18	275.69	275.56	275.85	275.61	275.70	276.23	276.08	276.03	275.77	275.69	275.57	275.54	
19	275.66	275.56	275.82	275.61	275.84	276.16	276.07	276.05	275.76	275.70	275.58	275.55	
20	275.64	275.63	275.84	275.61	275.97	276.09	276.15	276.03	275.77	275.69	275.58	275.55	
21	275.71	275.60	275.88	275.61	276.08	276.13	276.13	276.03	275.77	275.69	275.57	275.54	
22	276.05	275.57	275.84	275.60	276.05	276.11	276.08	276.02	275.79	275.69	275.57	275.55	
23	275.84	275.56	275.86	275.68	275.98	276.08	276.06	276.01	275.78	275.71	275.58	275.55	
24	275.69	275.66	275.77	275.73	276.93	276.35	276.01	275.99	275.78	275.66	275.57	275.55	
25	275.65	275.76	275.74	275.69	276.19	278.08	275.99	275.98	275.77	275.66	275.57	275.54	
26	275.74	275.66	275.72	275.79	276.56	277.99	276.18	275.98	275.78	275.74	275.58	275.55	
27	275.95	275.62	276.07	275.82	276.97	277.58	276.07	275.97	275.77	275.71	275.59	275.56	
28	275.92	275.60	275.84	276.00	276.71	277.08	276.00	275.97	275.76	275.65	275.58	275.64	
29	275.76	275.59	275.78	276.06	276.21	276.60	275.98	275.94	275.76	275.64		275.61	
30	275.69	275.64	275.74	275.88	276.06	276.41	275.97	275.94	275.76	275.65		275.59	
31		275.62		275.86	275.99		275.95		275.76	275.63		275.59	
Mean	275.62	275.64	275.83	275.70	276.01	276.50	276.26	276.09	275.83	275.71	275.59	275.57	
Max	276.05	275.87	276.45	276.06	276.97	278.08	277.74	276.53	275.96	275.75	275.63	275.64	278.08
Min	275.47	275.56	275.59	275.57	275.70	276.00	275.95	275.94	275.76	275.63	275.57	275.54	275.47

Annual Max Momentary Gage Height 278.38 M (MSL), at 18.00 Hours, on Sep 26, 1996
Zero Gage at Bottom Elevation 274.69 M (MSL), River Bed 275.28 M (MSL)
Left Bank Elevation 278.50 M (MSL)
Right Bank Elevation 278.43 M (MSL), Drainage Area 460 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	1.36	1.14	1.48	4.75	11.22	11.98	5.55	5.23	2.62	1.14	0.67	
2	0.13	1.03	2.20	0.91	5.87	10.65	11.22	9.36	5.71	2.62	1.14	0.61	
3	0.12	1.25	1.03	0.91	4.91	40.60	10.84	16.10	5.39	2.34	1.03	0.54	
4	0.12	1.59	0.91	0.67	4.75	30.80	9.70	9.19	4.91	2.48	0.91	0.67	
5	0.13	4.32	0.73	0.61	4.91	17.50	14.50	12.36	4.75	2.34	1.03	0.67	
6	0.13	2.62	6.68	0.73	4.75	12.17	11.79	14.10	4.75	2.34	0.80	0.67	
7	0.12	1.82	4.32	0.61	4.32	9.36	11.22	9.02	4.75	2.48	0.80	0.67	
8	0.12	1.48	4.91	0.73	3.88	7.01	10.27	8.85	4.75	2.48	0.80	0.67	
9	0.12	1.59	3.30	1.25	2.89	6.35	8.85	9.19	4.61	2.34	0.73	0.67	
10	0.13	1.59	4.46	1.14	2.62	6.52	54.00	8.34	4.46	2.34	0.91	0.67	
11	0.11	1.03	2.20	1.82	2.34	10.65	37.15	7.83	4.32	2.48	0.80	0.67	
12	0.12	1.59	1.59	1.48	2.62	9.70	20.34	7.51	4.17	2.34	0.73	0.54	
13	0.11	1.03	8.00	2.75	3.30	7.01	13.12	7.34	3.88	2.48	0.91	0.54	
14	0.13	0.80	3.73	2.89	3.45	7.17	11.22	7.34	3.59	2.20	0.67	0.54	
15	0.67	0.67	3.59	3.45	3.03	20.13	9.89	7.51	3.59	2.20	0.67	0.54	
16	1.48	0.61	14.50	1.59	3.03	11.41	9.02	7.34	3.30	2.07	0.67	0.61	
17	2.48	0.61	7.34	1.03	2.34	10.65	8.00	7.34	3.16	1.93	0.67	0.54	
18	1.82	0.54	4.03	0.91	1.93	10.27	7.67	6.84	2.89	1.82	0.61	0.41	
19	1.48	0.54	3.59	0.91	3.88	9.02	7.51	7.17	2.75	1.93	0.67	0.47	
20	1.25	1.14	3.88	0.91	5.87	7.83	8.85	6.84	2.89	1.82	0.67	0.47	
21	2.07	0.80	4.46	0.91	7.67	8.51	8.51	6.84	2.89	1.82	0.61	0.41	
22	7.17	0.61	3.88	0.80	7.17	8.17	7.67	6.68	3.16	1.82	0.61	0.47	
23	3.88	0.54	4.17	1.70	6.03	7.67	7.34	6.52	3.03	2.07	0.67	0.47	
24	1.82	1.48	2.89	2.34	24.55	12.55	6.52	6.19	3.03	1.48	0.61	0.47	
25	1.36	2.75	2.48	1.82	9.53	72.80	6.19	6.03	2.89	1.48	0.61	0.41	
26	2.48	1.48	2.20	3.16	16.70	67.40	9.36	6.03	3.03	2.48	0.67	0.47	
27	5.55	1.03	7.51	3.59	25.55	46.20	7.51	5.87	2.89	2.07	0.73	0.54	
28	5.07	0.80	3.88	6.35	19.71	28.46	6.35	5.87	2.75	1.36	0.67	1.25	
29	2.75	0.73	3.03	7.34	9.89	17.50	6.03	5.39	2.75	1.25		0.91	
30	1.82	1.25	2.48	4.46	7.34	13.70	5.87	5.39	2.75	1.36		0.73	
31		1.03		4.17	6.19		5.55		2.75	1.14		0.73	
Total	44.86	39.71	119.11	63.42	215.77	538.98	364.04	235.93	115.77	63.98	21.54	18.70	1841.81 CMSDAY
Mean	1.50	1.28	3.97	2.05	6.96	17.97	11.74	7.86	3.73	2.06	0.77	0.60	5.05 CMS
Max	7.17	4.32	14.50	7.34	25.55	72.80	54.00	16.10	5.71	2.62	1.14	1.25	72.80 CMS
Min	0.11	0.54	0.73	0.61	1.93	6.35	5.55	5.39	2.75	1.14	0.61	0.41	0.11 CMS
Runoff	3.876	3.431	10.291	5.479	18.643	46.568	31.453	20.384	10.003	5.528	1.861	1.616	159.132 MCM

Momentary Peak 94.00 CMS, at 278.38 M (MSL), at 18.00 Hours, on Sep 26, 1996

Runoff Yield 10.97 Liters/Second/Square KM, Momentary Peak Yield 204.348 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

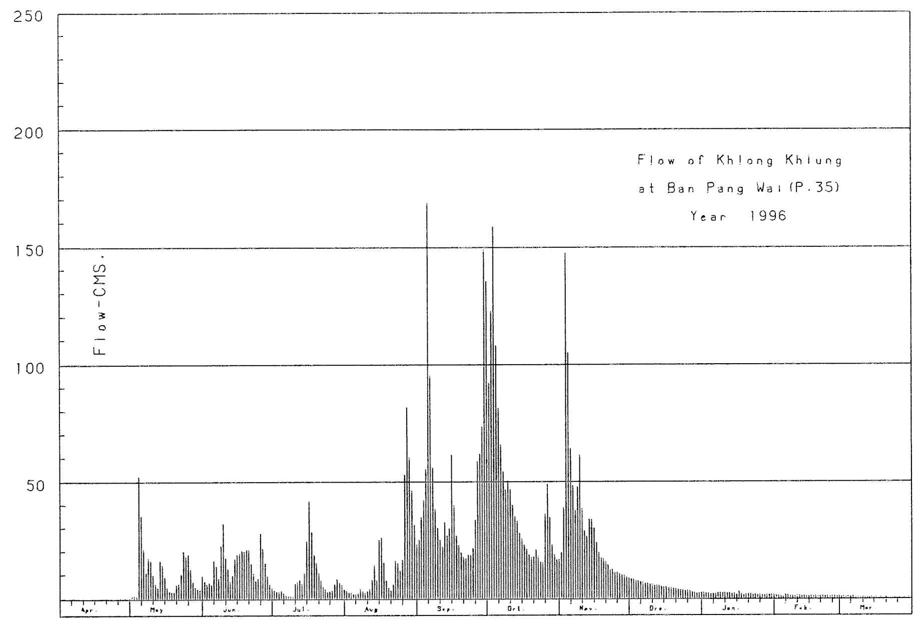
Khlong Khlung at Ban Pang Wai, Kamphaeng Phet (P.35)

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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1974 to date.
Rating Operation	
Period of Rating	1974 to date.
Rated by Float	-
Rated by Current Meter	1974 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No Overbank flow.
General Description	Records good. Stage-discharge relation defined by 135 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.25	-0.03	0.77	0.37	0.32	1.90	3.68	1.60	0.84	0.24	0.03	-0.08	
2	-0.26	-0.05	0.62	0.32	0.26	2.32	4.01	2.47	0.83	0.22	0.00	-0.09	
3	-0.28	-0.05	0.70	0.27	0.24	2.60	4.28	4.20	0.79	0.18	-0.02	-0.09	
4	-0.28	2.92	0.61	0.36	0.14	3.00	3.87	3.84	0.76	0.16	-0.02	-0.09	
5	-0.28	2.35	1.36	0.20	0.10	4.35	3.52	3.21	0.74	0.16	0.10	-0.09	
6	-0.28	1.67	1.22	0.05	0.20	3.72	3.24	2.80	0.70	0.16	0.01	-0.09	
7	-0.28	1.03	0.85	-0.01	0.43	3.02	2.98	2.44	0.67	0.23	-0.02	-0.13	
8	-0.28	1.43	1.77	-0.06	0.34	2.45	2.74	2.79	0.65	0.21	-0.04	-0.13	
9	-0.29	1.37	2.22	-0.07	0.20	2.14	2.86	3.14	0.64	0.22	-0.04	-0.13	
10	-0.29	0.95	1.45	0.67	0.33	1.89	2.75	2.46	0.62	0.21	0.00	-0.13	
11	-0.29	0.64	1.14	0.72	0.42	1.74	2.52	2.08	0.59	0.21	0.00	-0.13	
12	-0.29	0.50	0.76	0.82	0.82	2.23	2.34	1.96	0.59	0.20	-0.02	-0.13	
13	-0.29	1.37	0.95	0.65	1.24	1.99	2.25	2.29	0.56	0.18	-0.03	-0.13	
14	-0.29	1.23	1.41	1.02	0.80	2.12	2.04	2.28	0.54	0.18	-0.04	-0.13	
15	-0.29	0.90	1.53	1.86	1.89	3.15	1.91	2.13	0.49	0.11	-0.04	-0.14	
16	-0.29	0.47	1.56	2.58	1.95	2.51	1.79	1.84	0.51	0.30	-0.04	-0.14	
17	-0.28	0.31	1.65	2.06	1.32	1.99	1.67	1.59	0.48	0.13	-0.04	-0.15	
18	-0.28	0.24	1.62	1.54	0.81	1.77	1.53	1.44	0.46	0.05	-0.05	-0.15	
19	-0.28	0.27	1.68	1.29	0.48	1.60	1.45	1.41	0.45	0.08	-0.06	-0.16	
20	-0.28	0.60	1.66	1.02	0.38	1.46	1.48	1.34	0.43	0.17	-0.06	-0.16	
21	-0.29	0.64	1.29	0.79	0.64	1.42	1.67	1.25	0.42	0.15	-0.02	-0.17	
22	-0.30	0.98	0.99	0.54	1.36	1.54	1.50	1.10	0.40	0.09	-0.04	-0.17	
23	-0.31	1.63	0.79	0.42	1.29	1.52	1.33	1.10	0.35	0.11	-0.05	-0.18	
24	-0.32	1.47	0.85	0.28	1.09	1.71	1.30	1.02	0.35	0.08	-0.06	-0.20	
25	-0.19	1.55	2.04	0.33	1.40	2.28	2.37	1.02	0.34	0.07	-0.06	-0.20	
26	-0.24	1.11	1.69	0.36	2.94	3.08	2.82	0.98	0.33	0.07	-0.06	-0.20	
27	-0.23	0.74	1.30	0.65	3.53	3.16	2.32	0.96	0.27	0.06	-0.07	-0.21	
28	-0.19	0.50	0.93	0.83	3.12	3.39	1.78	0.93	0.22	0.06	-0.07	-0.19	
29	-0.14	0.45	0.61	0.71	2.73	4.21	1.53	0.89	0.19	0.10		-0.15	
30	-0.14	0.36	0.49	0.60	2.20	4.11	1.39	0.85	0.20	0.06		-0.14	
31		0.92		0.42	1.79		1.39		0.24	0.06		-0.14	
Mean	-0.27	0.92	1.22	0.70	1.12	2.48	2.33	1.91	0.50	0.15	-0.03	-0.14	
Max	-0.14	2.92	2.22	2.58	3.53	4.35	4.28	4.20	0.84	0.30	0.10	-0.08	4.35
Min	-0.32	-0.05	0.49	-0.07	0.10	1.42	1.30	0.85	0.19	0.05	-0.07	-0.21	-0.32

Annual Max Momentary Gage Height 4.41 M (A.D), at 18.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.03 M (A.D)
Left Bank Elevation 12.43 M (A.D)
Right Bank Elevation 4.67 M (A.D), Drainage Area 730 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	1.35	7.70	3.78	3.40	25.50	92.50	20.00	8.60	2.80	1.65	1.10	
2	0.35	1.25	6.20	3.40	2.95	35.00	122.80	38.93	8.45	2.65	1.50	1.05	
3	0.30	1.25	7.00	3.03	2.80	42.50	158.90	147.50	7.90	2.40	1.40	1.05	
4	0.30	52.70	6.10	3.70	2.20	55.50	108.50	105.50	7.60	2.30	1.40	1.05	
5	0.30	35.75	16.40	2.50	2.00	168.87	81.50	64.50	7.40	2.30	2.00	1.05	
6	0.30	21.22	14.30	1.75	2.50	95.50	66.00	48.50	7.00	2.30	1.55	1.05	
7	0.30	11.45	8.75	1.45	4.30	56.35	54.80	38.10	6.70	2.73	1.40	0.85	
8	0.30	17.45	22.97	1.20	3.55	38.38	46.70	48.20	6.50	2.58	1.30	0.85	
9	0.28	16.55	32.50	1.15	2.50	30.65	50.60	61.45	6.40	2.65	1.30	0.85	
10	0.28	10.25	17.75	6.70	3.48	25.30	47.00	38.65	6.20	2.58	1.50	0.85	
11	0.28	6.40	13.10	7.20	4.20	22.45	40.30	29.30	5.90	2.58	1.50	0.85	
12	0.28	5.00	7.60	8.30	8.30	32.75	35.50	26.70	5.90	2.50	1.40	0.85	
13	0.28	16.55	10.25	6.50	14.60	27.30	33.25	34.25	5.60	2.40	1.35	0.85	
14	0.28	14.45	17.15	11.30	8.00	30.20	28.40	34.00	5.40	2.40	1.30	0.85	
15	0.28	9.50	18.95	24.70	25.30	61.88	25.70	30.43	4.90	2.05	1.30	0.80	
16	0.28	4.70	19.40	41.95	26.50	40.03	23.32	24.30	5.10	3.25	1.30	0.80	
17	0.30	3.33	20.87	28.85	15.80	27.30	21.22	19.85	4.80	2.15	1.30	0.75	
18	0.30	2.80	20.35	19.10	8.15	22.97	18.95	17.60	4.60	1.75	1.25	0.75	
19	0.30	3.03	21.40	15.35	4.80	20.00	17.75	17.15	4.50	1.90	1.20	0.70	
20	0.30	6.00	21.05	11.30	3.85	17.90	18.20	16.10	4.30	2.35	1.20	0.70	
21	0.28	6.40	15.35	7.90	6.40	17.30	21.22	14.75	4.20	2.25	1.40	0.65	
22	0.25	10.70	10.85	5.40	16.40	19.10	18.50	12.50	4.00	1.95	1.30	0.65	
23	0.23	20.52	7.90	4.20	15.35	18.80	15.95	12.50	3.63	2.05	1.25	0.60	
24	0.20	18.05	8.75	3.10	12.35	21.93	15.50	11.30	3.63	1.90	1.20	0.50	
25	0.55	19.25	28.40	3.48	17.00	34.00	36.25	11.30	3.55	1.85	1.20	0.50	
26	0.40	12.65	21.57	3.70	53.40	58.90	49.20	10.70	3.48	1.85	1.20	0.50	
27	0.43	7.40	15.50	6.50	82.12	62.30	35.00	10.40	3.03	1.80	1.15	0.48	
28	0.55	5.00	9.95	8.45	60.60	73.50	23.15	9.95	2.65	1.80	1.15	0.55	
29	0.80	4.50	6.10	7.10	46.40	148.93	18.95	9.35	2.45	2.00		0.75	
30	0.80	3.70	4.90	6.00	32.00	135.80	16.85	8.75	2.50	1.80		0.80	
31		9.80		4.20	23.32		16.85		2.80	1.80		0.80	
Total	10.46	358.95	439.06	263.24	514.52	1466.89	1359.31	972.51	159.67	69.67	37.95	24.43	5676.66 CMSDAY
Mean	0.35	11.58	14.64	8.49	16.60	48.90	43.85	32.42	5.15	2.25	1.36	0.79	15.55 CMS
Max	0.80	52.70	32.50	41.95	82.12	168.87	158.90	147.50	8.60	3.25	2.00	1.10	168.87 CMS
Min	0.20	1.25	4.90	1.15	2.00	17.30	15.50	8.75	2.45	1.75	1.15	0.48	0.20 CMS
Runoff	0.904	31.013	37.935	22.744	44.455	126.739	117.444	84.025	13.795	6.019	3.279	2.111	490.463 MCM

Momentary Peak 177.70 CMS, at 4.41 M (A.D), at 18.00 Hours, on Oct 2, 1996

Runoff Yield 21.30 Liters/Second/Square KM, Momentary Peak Yield 243.425 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

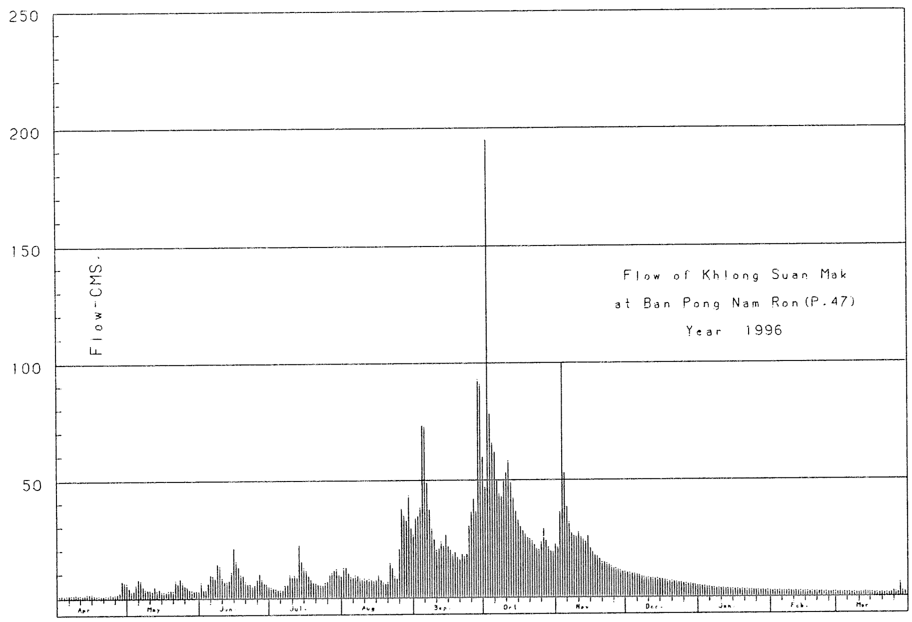
Khlong Suan Mak at Ban Pong Nam Ron, Kamphaeng Phet (P.47)

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	5-time daily readings at 06.00, 09.00, 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. Discharge made by float measurements during flood time. Stage-discharge relation defined by 47 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.14	0.15	0.28	0.16	0.57	1.27	1.56	0.89	0.48	0.17	0.03	-0.04	
2	-0.14	0.03	0.10	0.14	0.58	1.30	2.93	1.34	0.47	0.17	0.03	-0.04	
3	-0.14	0.07	0.08	0.12	0.48	1.39	2.02	2.25	0.46	0.16	0.03	-0.05	
4	-0.15	0.22	0.26	0.10	0.40	1.96	1.86	1.67	0.45	0.15	0.03	-0.05	
5	-0.11	0.35	0.45	0.09	0.38	1.95	1.81	1.40	0.44	0.14	0.03	-0.05	
6	-0.13	0.31	0.41	0.10	0.43	1.60	1.62	1.23	0.42	0.14	0.02	-0.05	
7	-0.11	0.18	0.37	0.20	0.43	1.37	1.51	1.09	0.40	0.13	0.02	-0.06	
8	-0.10	0.11	0.64	0.22	0.36	1.15	1.49	1.05	0.38	0.12	0.02	-0.06	
9	-0.11	0.10	0.60	0.44	0.33	1.01	1.62	1.04	0.37	0.12	0.02	-0.06	
10	-0.12	0.08	0.37	0.39	0.36	0.85	1.67	1.10	0.37	0.12	0.01	-0.07	
11	-0.13	0.05	0.30	0.43	0.34	0.88	1.75	1.04	0.36	0.11	0.01	-0.07	
12	-0.11	0.18	0.28	0.39	0.35	0.97	1.60	1.00	0.35	0.11	0.01	-0.04	
13	-0.06	0.06	0.32	0.93	0.33	0.91	1.47	0.97	0.35	0.10	0.01	-0.04	
14	-0.07	0.12	0.50	0.68	0.29	1.07	1.35	1.05	0.35	0.10	0.00	-0.04	
15	-0.05	0.04	0.89	0.57	0.33	0.91	1.25	0.88	0.34	0.09	0.00	-0.06	
16	-0.13	0.02	0.68	0.52	0.43	0.85	1.17	0.82	0.33	0.09	0.00	-0.06	
17	-0.13	0.02	0.59	0.42	0.33	0.78	1.12	0.77	0.32	0.09	0.00	-0.06	
18	-0.13	0.06	0.44	0.33	0.27	0.82	1.07	0.75	0.30	0.08	0.00	-0.07	
19	-0.14	0.09	0.43	0.27	0.24	0.74	1.03	0.72	0.29	0.08	0.00	-0.07	
20	-0.15	0.06	0.30	0.25	0.28	0.71	1.01	0.66	0.29	0.08	-0.01	-0.07	
21	-0.15	0.32	0.24	0.22	0.65	0.79	0.98	0.66	0.28	0.07	-0.01	-0.08	
22	-0.13	0.25	0.23	0.20	0.57	0.75	0.93	0.64	0.27	0.07	-0.02	-0.08	
23	-0.11	0.36	0.18	0.20	0.41	0.79	0.87	0.62	0.26	0.07	-0.02	-0.08	
24	-0.11	0.28	0.20	0.26	0.36	1.18	0.85	0.59	0.25	0.06	-0.02	-0.07	
25	-0.11	0.20	0.34	0.30	0.87	1.34	0.96	0.56	0.24	0.06	-0.03	0.01	
26	-0.08	0.16	0.47	0.44	1.38	1.47	1.15	0.55	0.23	0.05	-0.03	-0.04	
27	0.01	0.11	0.34	0.48	1.30	1.35	0.99	0.54	0.22	0.05	-0.03	-0.05	
28	0.31	0.07	0.26	0.53	1.25	2.18	0.89	0.52	0.22	0.04	-0.03	0.24	
29	0.26	0.06	0.23	0.55	1.50	2.16	0.83	0.50	0.21	0.04		0.00	
30	0.26	0.05	0.18	0.44	1.16	1.78	0.82	0.49	0.19	0.04		-0.02	
31		0.04		0.40	1.07		0.93		0.18	0.03		0.18	
Mean	-0.07	0.14	0.37	0.35	0.58	1.21	1.33	0.91	0.32	0.09	0.00	-0.04	
Max	0.31	0.36	0.89	0.93	1.50	2.18	2.93	2.25	0.48	0.17	0.03	0.24	2.93
Min	-0.15	0.02	0.08	0.09	0.24	0.71	0.82	0.49	0.18	0.03	-0.03	-0.08	-0.15

Annual Max Momentary Gage Height	3.48 M (A.D), at 12.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed -0.96 M (A.D)
Left Bank Elevation	6.44 M (A.D)
Right Bank Elevation	5.99 M (A.D), Drainage Area 521 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.28	4.60	6.94	4.78	12.95	33.86	47.10	21.52	10.80	4.96	2.86	2.14	
2	1.28	2.86	3.70	4.42	13.20	35.00	195.25	36.60	10.60	4.96	2.86	2.14	
3	1.28	3.34	3.46	4.06	10.80	38.60	78.50	100.00	10.40	4.78	2.86	2.05	
4	1.20	5.86	6.58	3.70	9.20	73.68	66.00	53.43	10.20	4.60	2.86	2.05	
5	1.52	8.25	10.20	3.58	8.82	72.90	62.25	39.00	10.00	4.42	2.86	2.05	
6	1.36	7.49	9.40	3.70	9.80	49.30	50.48	32.34	9.60	4.42	2.74	2.05	
7	1.52	5.14	8.63	5.50	9.80	37.80	44.35	27.68	9.20	4.24	2.74	1.96	
8	1.60	3.88	14.70	5.86	8.44	29.60	43.32	26.40	8.82	4.06	2.74	1.96	
9	1.52	3.70	13.70	10.00	7.87	25.12	50.48	26.08	8.63	4.06	2.74	1.96	
10	1.44	3.46	8.63	9.01	8.44	20.40	53.43	28.00	8.63	4.06	2.62	1.87	
11	1.36	3.10	7.30	9.80	8.06	21.24	58.35	26.08	8.44	3.88	2.62	1.87	
12	1.52	5.14	6.94	9.01	8.25	23.90	49.30	24.80	8.25	3.88	2.62	2.14	
13	1.96	3.22	7.68	22.70	7.87	22.10	42.36	23.90	8.25	3.70	2.62	2.14	
14	1.87	4.06	11.20	15.70	7.12	27.04	37.00	26.40	8.25	3.70	2.50	2.14	
15	2.05	2.98	21.52	12.95	7.87	22.10	33.10	21.24	8.06	3.58	2.50	1.96	
16	1.36	2.74	15.70	11.70	9.80	20.40	30.24	19.56	7.87	3.58	2.50	1.96	
17	1.36	2.74	13.45	9.60	7.87	18.44	28.64	18.16	7.68	3.58	2.50	1.96	
18	1.36	3.22	10.00	7.87	6.76	19.56	27.04	17.60	7.30	3.46	2.50	1.87	
19	1.28	3.58	9.80	6.76	6.22	17.32	25.76	16.76	7.12	3.46	2.50	1.87	
20	1.20	3.22	7.30	6.40	6.94	16.48	25.12	15.20	7.12	3.46	2.41	1.87	
21	1.20	7.68	6.22	5.86	14.95	18.72	24.20	15.20	6.94	3.34	2.41	1.78	
22	1.36	6.40	6.04	5.50	12.95	17.60	22.70	14.70	6.76	3.34	2.32	1.78	
23	1.52	8.44	5.14	5.50	9.40	18.72	20.96	14.20	6.58	3.34	2.32	1.78	
24	1.52	6.94	5.50	6.58	8.44	30.56	20.40	13.45	6.40	3.22	2.32	1.87	
25	1.52	5.50	8.06	7.30	20.96	36.60	23.60	12.70	6.22	3.22	2.23	2.62	
26	1.78	4.78	10.60	10.00	38.20	42.36	29.60	12.45	6.04	3.10	2.23	2.14	
27	2.62	3.88	8.06	10.80	35.00	37.00	24.50	12.20	5.86	3.10	2.23	2.05	
28	7.49	3.34	6.58	11.95	33.10	93.06	21.52	11.70	5.86	2.98	2.23	6.22	
29	6.58	3.22	6.04	12.45	43.80	91.12	19.84	11.20	5.68	2.98		2.50	
30	6.58	3.10	5.14	10.00	29.92	60.24	19.56	11.00	5.32	2.98		2.32	
31		2.98		9.20	27.04		22.70		5.14	2.86		5.14	
Total	61.49	138.84	264.21	262.24	449.84	1070.82	1297.65	729.55	242.02	115.30	71.44	70.21	4773.61 CMSDAY
Mean	2.05	4.48	8.81	8.46	14.51	35.69	41.86	24.32	7.81	3.72	2.55	2.26	13.08 CMS
Max	7.49	8.44	21.52	22.70	43.80	93.06	195.25	100.00	10.80	4.96	2.86	6.22	195.25 CMS
Min	1.20	2.74	3.46	3.58	6.22	16.48	19.56	11.00	5.14	2.86	2.23	1.78	1.20 CMS
Runoff	5.313	11.996	22.828	22.658	38.866	92.519	112.117	63.033	20.911	9.962	6.172	6.066	412.440 MCM

Momentary Peak 301.80 CMS, at 3.48 M (A.D), at 12.00 Hours, on Oct 2, 1996

Runoff Yield 25.10 Liters/Second/Square KM, Momentary Peak Yield 579.271 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

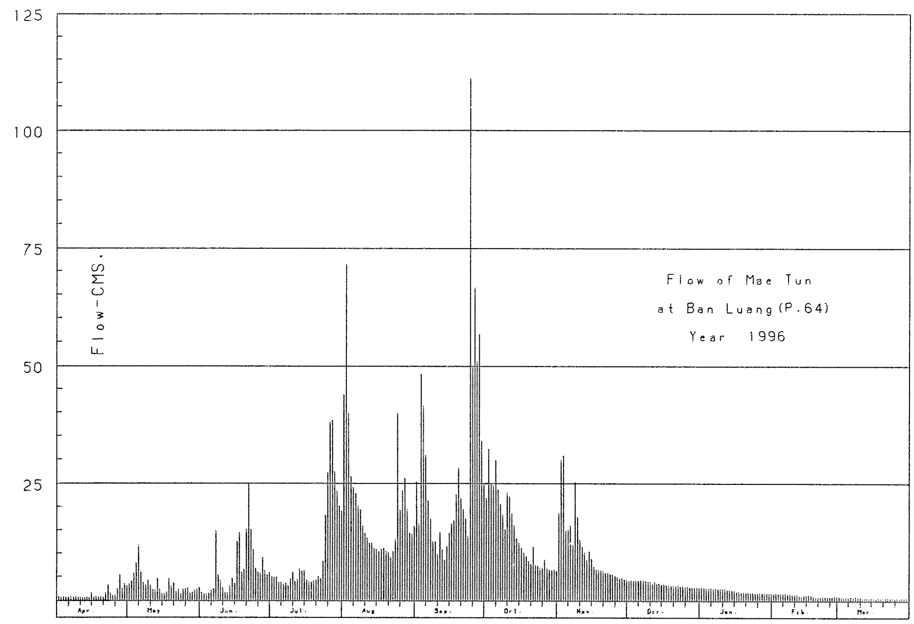
Nam Mae Tun at Ban Luang, Chiang Mai (P.64)

Location	Lat. 17°-47'-01" N., Long. 98°-22'-31" E., on right bank at the bridge on highway, Ban Luang, Amphoe Omkoi, Chiang Mai.
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 about 35.00 meters from the top staff gage.
Elevation	+9.00 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 194 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.71	0.58	0.81	1.81	1.41	1.32	1.24	0.76	0.66	0.56	0.50	
2	0.48	0.75	0.55	0.80	2.33	1.18	1.57	1.52	0.76	0.66	0.56	0.49	
3	0.48	0.84	0.55	0.81	1.73	1.90	1.40	1.54	0.76	0.65	0.56	0.48	
4	0.48	0.94	0.57	0.74	1.44	1.76	1.39	1.14	0.76	0.65	0.56	0.48	
5	0.48	1.06	0.61	0.73	1.38	1.54	1.52	1.15	0.76	0.65	0.56	0.48	
6	0.48	0.86	0.64	0.71	1.35	1.31	1.37	1.17	0.76	0.65	0.56	0.49	
7	0.48	0.73	1.14	0.72	1.28	1.21	1.29	1.06	0.76	0.64	0.55	0.49	
8	0.48	0.70	0.83	0.69	1.26	1.08	1.23	1.41	0.75	0.64	0.54	0.49	
9	0.48	0.76	0.76	0.78	1.17	1.08	1.15	1.22	0.75	0.64	0.54	0.48	
10	0.47	0.70	0.65	0.86	1.13	1.00	1.35	1.09	0.74	0.65	0.54	0.48	
11	0.47	0.63	0.58	0.75	1.10	1.13	1.33	1.05	0.72	0.64	0.54	0.47	
12	0.47	0.61	0.57	0.77	1.07	1.03	1.24	1.01	0.74	0.63	0.52	0.47	
13	0.47	0.79	0.68	0.89	1.07	0.96	1.17	0.96	0.72	0.62	0.50	0.46	
14	0.47	0.63	0.79	0.87	1.04	1.05	1.10	1.02	0.72	0.62	0.53	0.46	
15	0.57	0.56	0.72	0.87	1.03	1.13	1.07	0.97	0.71	0.61	0.52	0.46	
16	0.49	0.55	1.08	0.77	1.02	1.18	1.04	0.91	0.71	0.60	0.53	0.45	
17	0.49	0.59	1.13	0.74	1.03	1.20	1.01	0.89	0.70	0.60	0.53	0.45	
18	0.48	0.78	0.85	0.74	1.04	1.34	0.99	0.88	0.69	0.59	0.51	0.46	
19	0.48	0.68	0.89	0.75	1.02	1.48	0.95	0.88	0.69	0.59	0.49	0.46	
20	0.48	0.73	1.15	0.77	1.01	1.32	0.93	0.87	0.69	0.58	0.49	0.46	
21	0.57	0.60	1.40	0.81	0.98	1.26	1.05	0.85	0.69	0.58	0.49	0.46	
22	0.70	0.63	1.15	0.79	1.02	1.21	0.92	0.85	0.69	0.58	0.50	0.46	
23	0.57	0.56	1.03	0.95	1.09	1.11	0.92	0.84	0.68	0.58	0.50	0.46	
24	0.51	0.63	0.90	1.23	1.73	3.02	0.90	0.83	0.68	0.57	0.49	0.46	
25	0.53	0.64	0.86	1.46	1.26	1.93	0.90	0.82	0.67	0.57	0.49	0.45	
26	0.63	0.65	0.84	1.69	1.36	2.24	0.96	0.80	0.67	0.57	0.50	0.45	
27	0.83	0.57	0.98	1.70	1.43	1.95	0.90	0.79	0.66	0.57	0.50	0.45	
28	0.64	0.58	0.87	1.46	1.26	2.06	0.88	0.79	0.66	0.57	0.50	0.46	
29	0.71	0.62	0.83	1.36	1.13	1.61	0.88	0.78	0.66	0.57		0.46	
30	0.69	0.63	0.85	1.28	1.12	1.40	0.88	0.77	0.66	0.56		0.45	
31		0.66		1.25	1.17		0.87		0.66	0.56		0.45	
Mean	0.53	0.69	0.83	0.95	1.25	1.44	1.11	1.00	0.71	0.61	0.52	0.47	
Max	0.83	1.06	1.40	1.70	2.33	3.02	1.57	1.54	0.76	0.66	0.56	0.50	3.02
Min	0.47	0.55	0.55	0.69	0.98	0.96	0.87	0.77	0.66	0.56	0.49	0.45	0.45

Annual Max Momentary Gage Height 3.81 M (A.D), at 17.00 Hours, on Sep 24, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.14 M (A.D)
Left Bank Elevation 4.51 M (A.D)
Right Bank Elevation 4.53 M (A.D), Drainage Area 336 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	3.66	1.88	5.30	44.00	25.52	21.98	18.86	4.46	2.94	1.66	1.00	
2	0.84	4.30	1.55	5.10	71.65	16.54	32.45	30.20	4.46	2.94	1.66	0.92	
3	0.84	5.90	1.55	5.30	40.07	48.50	25.10	31.10	4.46	2.80	1.66	0.84	
4	0.84	8.26	1.77	4.14	26.78	41.54	24.71	15.02	4.46	2.80	1.66	0.84	
5	0.84	12.10	2.24	3.98	24.32	31.10	30.20	15.40	4.46	2.80	1.66	0.84	
6	0.84	6.30	2.66	3.66	23.15	21.59	23.93	16.16	4.46	2.80	1.66	0.92	
7	0.84	3.98	15.02	3.82	20.42	17.69	20.81	12.10	4.46	2.66	1.55	0.92	
8	0.84	3.50	5.70	3.36	19.64	12.80	18.47	25.52	4.30	2.66	1.44	0.92	
9	0.84	4.46	4.46	4.78	16.16	12.80	15.40	18.08	4.30	2.66	1.44	0.84	
10	0.76	3.50	2.80	6.30	14.64	10.00	23.15	13.15	4.14	2.80	1.44	0.84	
11	0.76	2.52	1.88	4.30	13.50	14.64	22.37	11.75	3.82	2.66	1.44	0.76	
12	0.76	2.24	1.77	4.62	12.45	11.05	18.86	10.35	4.14	2.52	1.22	0.76	
13	0.76	4.94	3.22	6.90	12.45	8.84	16.16	8.84	3.82	2.38	1.00	0.68	
14	0.76	2.52	4.94	6.50	11.40	11.75	13.50	10.70	3.82	2.38	1.33	0.68	
15	1.77	1.66	3.82	6.50	11.05	14.64	12.45	9.13	3.66	2.24	1.22	0.68	
16	0.92	1.55	12.80	4.62	10.70	16.54	11.40	7.39	3.66	2.10	1.33	0.60	
17	0.92	1.99	14.64	4.14	11.05	17.30	10.35	6.90	3.50	2.10	1.33	0.60	
18	0.84	4.78	6.10	4.14	11.40	22.76	9.71	6.70	3.36	1.99	1.11	0.68	
19	0.84	3.22	6.90	4.30	10.70	28.46	8.55	6.70	3.36	1.99	0.92	0.68	
20	0.84	3.98	15.40	4.62	10.35	21.98	7.97	6.50	3.36	1.88	0.92	0.68	
21	1.77	2.10	25.10	5.30	9.42	19.64	11.75	6.10	3.36	1.88	0.92	0.68	
22	3.50	2.52	15.40	4.94	10.70	17.69	7.68	6.10	3.36	1.88	1.00	0.68	
23	1.77	1.66	11.05	8.55	13.15	13.88	7.68	5.90	3.22	1.88	1.00	0.68	
24	1.11	2.52	7.10	18.47	40.07	111.20	7.10	5.70	3.22	1.77	0.92	0.68	
25	1.33	2.66	6.30	27.62	19.64	50.06	7.10	5.50	3.08	1.77	0.92	0.60	
26	2.52	2.80	5.90	38.12	23.54	66.70	8.84	5.10	3.08	1.77	1.00	0.60	
27	5.70	1.77	9.42	38.60	26.36	51.10	7.10	4.94	2.94	1.77	1.00	0.60	
28	2.66	1.88	6.50	27.62	19.64	56.88	6.70	4.94	2.94	1.77	1.00	0.68	
29	3.66	2.38	5.70	23.54	14.64	34.28	6.70	4.78	2.94	1.77		0.68	
30	3.36	2.52	6.10	20.42	14.26	25.10	6.70	4.62	2.94	1.66		0.60	
31		2.94		19.25	16.16		6.50		2.94	1.66		0.60	
Total	44.95	111.11	209.67	328.81	623.46	852.57	451.37	334.23	114.48	69.68	35.41	22.76	3198.50 CMSDAY
Mean	1.50	3.58	6.99	10.61	20.11	28.42	14.56	11.14	3.69	2.25	1.26	0.73	8.76 CMS
Max	5.70	12.10	25.10	38.60	71.65	111.20	32.45	31.10	4.46	2.94	1.66	1.00	111.20 CMS
Min	0.76	1.55	1.55	3.36	9.42	8.84	6.50	4.62	2.94	1.66	0.92	0.60	0.60 CMS
Runoff	3.884	9.600	18.115	28.409	53.867	73.662	38.998	28.877	9.891	6.020	3.059	1.966	276.350 MCM

Momentary Peak 160.65 CMS, at 3.81 M (A.D), at 17.00 Hours, on Sep 24, 1996

Runoff Yield 26.08 Liters/Second/Square KM, Momentary Peak Yield 478.125 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

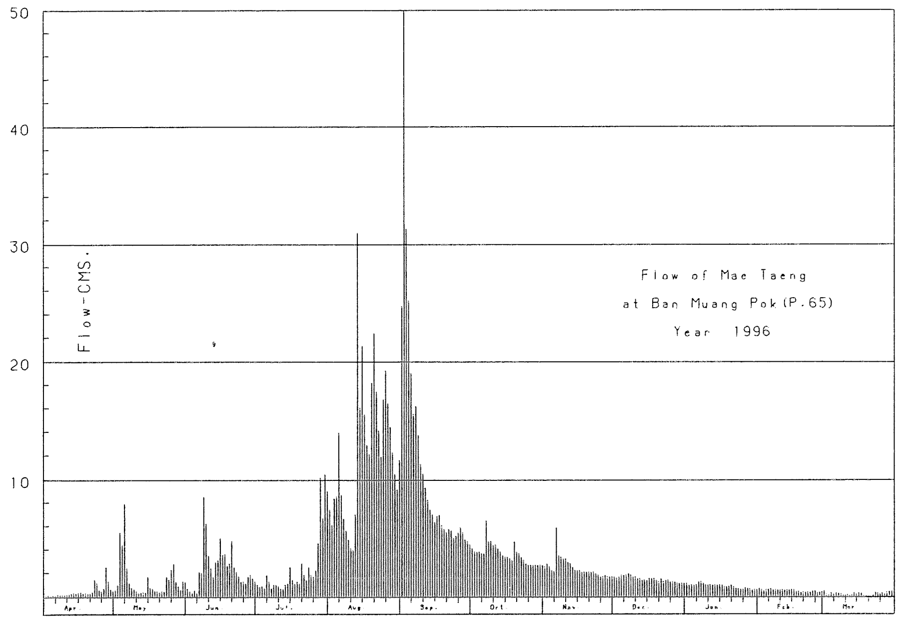
Mae Taeng River at Ban Muang Pok, Chiang Mai, (P.65)

Location	Lat. 19°-38′-10″ N., Long. 98°-38′-19″ E., on left bank in front of King Amphoe Wiang Haeng Office, Amphoe Wiang Haeng, Chiang Mai.
Drainage Area	240 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 in front of the station office.
Elevation	+3.900 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1992 to date.
Rating Operation	
Period of Rating	1992 to date.
Rated by Float	-
Rated by Current Meter	1992 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The concrete weir situated about 300 meters upstream from the gage site. Stage-discharge relation defined by 152 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.67	0.69	0.72	1.16	2.09	0.94	0.83	0.77	0.73	0.70	0.67	
2	0.61	0.72	0.66	0.71	1.07	2.78	0.92	0.85	0.76	0.72	0.68	0.63	
3	0.61	1.03	0.64	0.71	1.22	2.32	0.92	0.83	0.77	0.72	0.67	0.62	
4	0.61	0.96	0.67	0.70	1.23	2.11	0.92	0.81	0.78	0.72	0.68	0.64	
5	0.61	1.19	0.64	0.78	1.56	1.83	0.91	0.80	0.78	0.72	0.69	0.63	
6	0.62	0.82	0.80	0.74	1.24	1.65	0.91	1.06	0.78	0.74	0.69	0.64	
7	0.62	0.73	0.79	0.70	1.11	1.69	1.10	0.90	0.79	0.74	0.68	0.64	
8	0.62	0.70	1.23	0.72	1.04	1.55	0.98	0.89	0.78	0.73	0.68	0.63	
9	0.62	0.69	1.08	0.72	0.99	1.40	0.98	0.88	0.77	0.72	0.68	0.62	
10	0.62	0.66	0.90	0.71	0.94	1.35	0.96	0.88	0.77	0.72	0.68	0.62	
11	0.63	0.64	0.82	0.69	0.93	1.28	0.96	0.86	0.76	0.72	0.68	0.62	
12	0.64	0.65	0.77	0.69	1.13	1.21	0.94	0.85	0.76	0.72	0.68	0.61	
13	0.64	0.65	0.86	0.72	2.31	1.16	0.92	0.83	0.75	0.72	0.68	0.62	
14	0.64	0.65	0.87	0.73	1.68	1.13	0.90	0.81	0.75	0.72	0.68	0.64	
15	0.64	0.77	1.00	0.83	1.95	1.09	0.89	0.81	0.75	0.72	0.68	0.63	
16	0.65	0.70	0.90	0.75	1.65	1.12	0.89	0.81	0.76	0.72	0.68	0.64	
17	0.64	0.69	0.91	0.73	1.50	1.13	0.88	0.80	0.76	0.71	0.66	0.64	
18	0.64	0.67	0.84	0.74	1.45	1.07	0.87	0.80	0.76	0.71	0.66	0.61	
19	0.64	0.66	0.85	0.73	1.79	1.05	0.98	0.80	0.75	0.71	0.65	0.61	
20	0.64	0.65	0.98	0.85	2.00	1.03	0.92	0.80	0.74	0.72	0.65	0.61	
21	0.65	0.66	0.83	0.78	1.75	1.05	0.91	0.80	0.76	0.71	0.65	0.61	
22	0.75	0.66	0.80	0.75	1.57	1.04	0.89	0.80	0.74	0.70	0.65	0.61	
23	0.73	0.77	0.77	0.83	1.44	1.00	0.87	0.79	0.75	0.69	0.65	0.65	
24	0.68	0.75	0.74	0.78	1.72	1.01	0.85	0.78	0.75	0.69	0.66	0.64	
25	0.66	0.81	0.74	0.77	1.84	1.03	0.84	0.77	0.74	0.69	0.67	0.63	
26	0.70	0.85	0.73	0.81	1.70	1.06	0.84	0.77	0.74	0.70	0.66	0.64	
27	0.83	0.74	0.77	0.97	1.59	1.03	0.84	0.78	0.74	0.70	0.65	0.63	
28	0.74	0.71	0.78	1.33	1.46	0.99	0.84	0.77	0.73	0.69	0.65	0.65	
29	0.69	0.68	0.76	1.11	1.35	0.98	0.84	0.77	0.73	0.68		0.66	
30	0.66	0.74	0.74	1.35	1.27	0.96	0.84	0.77	0.73	0.68		0.66	
31		0.74		1.26	1.42		0.84		0.73	0.68		0.66	
Mean	0.65	0.74	0.82	0.82	1.45	1.34	0.91	0.82	0.76	0.71	0.67	0.63	
Max	0.83	1.19	1.23	1.35	2.31	2.78	1.10	1.06	0.79	0.74	0.70	0.67	2.78
Min	0.61	0.64	0.64	0.69	0.93	0.96	0.84	0.77	0.73	0.68	0.65	0.61	0.61

Annual Max Momentary Gage Height 3.30 M (A.D), at 6.00 Hours, on Sep 2, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.35 M (A.D)
Left Bank Elevation 5.06 M (A.D)
Right Bank Elevation 5.06 M (A.D), Drainage Area 240 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.59	0.73	1.08	7.53	24.75	4.20	2.62	1.78	1.22	0.80	0.59	
2	0.17	1.08	0.52	0.94	6.15	50.16	3.90	2.90	1.64	1.08	0.66	0.31	
3	0.17	5.55	0.38	0.94	8.46	31.34	3.90	2.62	1.78	1.08	0.59	0.24	
4	0.17	4.50	0.59	0.80	8.62	25.27	3.90	2.34	1.92	1.08	0.66	0.38	
5	0.17	8.00	0.38	1.92	14.02	19.10	3.75	2.20	1.92	1.08	0.73	0.31	
6	0.24	2.48	2.20	1.36	8.77	15.60	3.75	6.00	1.92	1.36	0.73	0.38	
7	0.24	1.22	2.06	0.80	6.75	16.32	6.60	3.60	2.06	1.36	0.66	0.38	
8	0.24	0.80	8.62	1.08	5.70	13.85	4.80	3.46	1.92	1.22	0.66	0.31	
9	0.24	0.73	6.30	1.08	4.95	11.35	4.80	3.32	1.78	1.08	0.66	0.24	
10	0.24	0.52	3.60	0.94	4.20	10.53	4.50	3.32	1.78	1.08	0.66	0.24	
11	0.31	0.38	2.48	0.73	4.05	9.39	4.50	3.04	1.64	1.08	0.66	0.24	
12	0.38	0.45	1.78	0.73	7.06	8.31	4.20	2.90	1.64	1.08	0.66	0.17	
13	0.38	0.45	3.04	1.08	31.02	7.53	3.90	2.62	1.50	1.08	0.66	0.24	
14	0.38	0.45	3.18	1.22	16.14	7.06	3.60	2.34	1.50	1.08	0.66	0.38	
15	0.38	1.78	5.10	2.62	21.50	6.45	3.46	2.34	1.50	1.08	0.66	0.31	
16	0.45	0.80	3.60	1.50	15.60	6.91	3.46	2.34	1.64	1.08	0.66	0.38	
17	0.38	0.73	3.75	1.22	13.00	7.06	3.32	2.20	1.64	0.94	0.52	0.38	
18	0.38	0.59	2.76	1.36	12.18	6.15	3.18	2.20	1.64	0.94	0.52	0.17	
19	0.38	0.52	2.90	1.22	18.30	5.85	4.80	2.20	1.50	0.94	0.45	0.17	
20	0.38	0.45	4.80	2.90	22.50	5.55	3.90	2.20	1.36	1.08	0.45	0.17	
21	0.45	0.52	2.62	1.92	17.50	5.85	3.75	2.20	1.64	0.94	0.45	0.17	
22	1.50	0.52	2.20	1.50	14.19	5.70	3.46	2.20	1.36	0.80	0.45	0.17	
23	1.22	1.78	1.78	2.62	12.01	5.10	3.18	2.06	1.50	0.73	0.45	0.45	
24	0.66	1.50	1.36	1.92	16.90	5.25	2.90	1.92	1.50	0.73	0.52	0.38	
25	0.52	2.34	1.36	1.78	19.30	5.55	2.76	1.78	1.36	0.73	0.59	0.31	
26	0.80	2.90	1.22	2.34	16.50	6.00	2.76	1.78	1.36	0.80	0.52	0.38	
27	2.62	1.36	1.78	4.65	14.53	5.55	2.76	1.92	1.36	0.80	0.45	0.31	
28	1.36	0.94	1.92	10.20	12.34	4.95	2.76	1.78	1.22	0.73	0.45	0.45	
29	0.73	0.66	1.64	6.75	10.53	4.80	2.76	1.78	1.22	0.66		0.52	
30	0.52	1.36	1.36	10.53	9.24	4.50	2.76	1.78	1.22	0.66		0.52	
31		1.36		9.08	11.68		2.76		1.22	0.66		0.52	
Total	16.23	47.31	76.01	78.81	391.22	341.78	115.03	75.96	49.02	30.26	16.59	10.17	1248.39 CMSDAY
Mean	0.54	1.53	2.53	2.54	12.62	11.39	3.71	2.53	1.58	0.98	0.59	0.33	3.42 CMS
Max	2.62	8.00	8.62	10.53	31.02	50.16	6.60	6.00	2.06	1.36	0.80	0.59	50.16 CMS
Min	0.17	0.38	0.38	0.73	4.05	4.50	2.76	1.78	1.22	0.66	0.45	0.17	0.17 CMS
Runoff	1.402	4.088	6.567	6.809	33.801	29.530	9.939	6.563	4.235	2.614	1.433	0.879	107.861 MCM

Momentary Peak 86.00 CMS, at 3.30 M (A.D), at 6.00 Hours, on Sep 2, 1996

Runoff Yield 14.25 Liters/Second/Square KM, Momentary Peak Yield 358.333 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

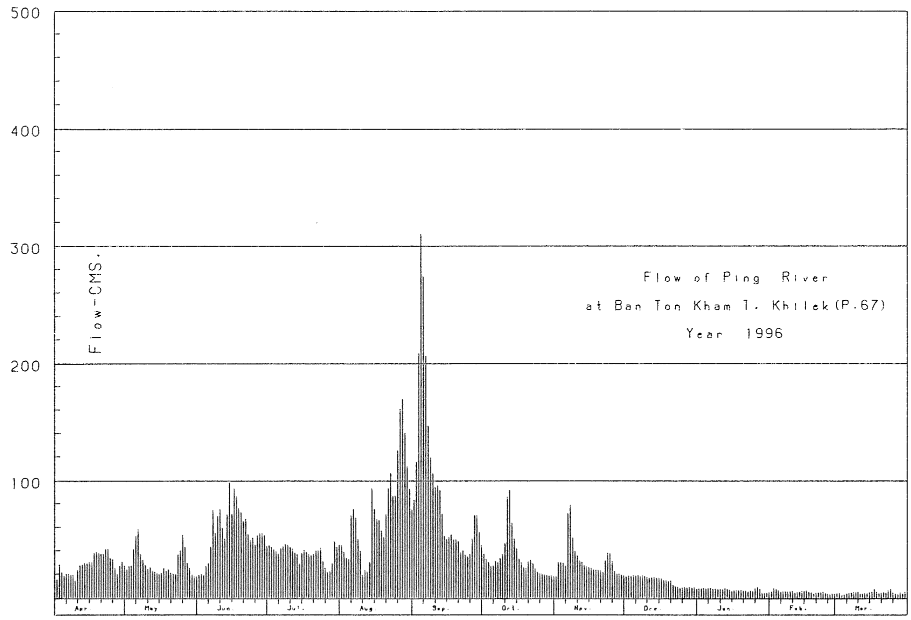
Ping River at Ban Mae Tae , Chiang Mai. (P.67)

Location	Lat. 19°-01′-11″ N , Long. 98°-57′-42″ E , on left bank at the bridge on highway Ban Mae Tae , Amphoe San Sai , Chiang Mai.
Drainage Area	5289 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	+7.764 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	1995 to date.
Rating Operation	
Period of Rating	1995 to date.
Rated by Float	-
Rated by Current Meter	1995 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Mae Faek & Mae Taeng weir situated above gage site. Stage-dischare relation defined by 41 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.29	2.51	2.39	2.89	2.89	3.43	2.77	2.36	2.36	2.02	1.92	1.84	
2	2.59	2.56	2.40	2.86	2.79	3.77	2.69	2.63	2.37	2.04	2.03	1.83	
3	2.44	2.58	2.39	2.83	2.71	4.54	2.64	2.64	2.37	2.04	2.02	1.74	
4	2.37	2.83	2.56	2.80	2.68	5.22	2.56	2.62	2.38	2.04	1.96	1.73	
5	2.42	3.02	2.62	2.77	3.26	5.00	2.58	2.58	2.38	2.04	1.91	1.83	
6	2.41	3.10	2.87	2.85	3.34	4.52	2.66	3.29	2.38	2.04	1.91	1.84	
7	2.40	2.77	3.32	2.87	3.24	4.05	2.63	3.38	2.37	2.02	1.92	1.87	
8	2.39	2.67	3.05	2.91	2.98	3.80	2.71	3.00	2.38	2.01	1.90	1.88	
9	2.26	2.59	3.26	2.89	2.81	3.68	2.76	2.80	2.37	2.01	1.92	1.89	
10	2.49	2.51	3.33	2.87	2.39	3.55	2.92	2.74	2.34	2.01	1.93	1.89	
11	2.59	2.55	3.12	2.84	2.49	3.57	3.46	2.67	2.33	2.01	1.87	1.83	
12	2.60	2.48	2.98	2.79	2.47	3.53	3.53	2.64	2.34	2.03	1.86	1.81	
13	2.62	2.45	3.27	2.76	2.64	3.28	3.18	2.59	2.34	2.02	1.92	1.84	
14	2.62	2.43	3.60	2.62	3.54	3.02	2.98	2.56	2.33	1.98	1.93	1.85	
15	2.64	2.40	3.28	2.78	3.34	2.98	2.84	2.55	2.32	1.94	1.94	1.86	
16	2.63	2.43	3.54	2.82	3.22	3.00	2.70	2.53	2.31	1.97	1.94	1.89	
17	2.78	2.53	3.47	2.80	3.21	3.04	2.63	2.51	2.28	1.96	1.91	2.02	
18	2.79	2.47	3.34	2.76	3.08	2.97	2.55	2.49	2.26	1.97	1.86	1.90	
19	2.78	2.51	3.30	2.75	3.01	2.97	2.52	2.50	2.25	1.97	1.82	1.84	
20	2.77	2.43	3.20	2.76	3.27	2.95	2.64	2.48	2.25	1.96	1.85	1.85	
21	2.76	2.41	3.22	2.81	3.54	2.78	2.68	2.46	2.15	1.95	1.88	1.89	
22	2.84	2.41	3.04	2.82	3.68	2.82	2.62	2.67	2.10	1.92	1.89	1.87	
23	2.83	2.76	2.96	2.85	3.47	2.75	2.52	2.78	2.07	1.94	1.90	1.95	
24	2.71	2.81	2.99	2.66	3.47	2.73	2.46	2.78	2.05	1.94	1.86	2.02	
25	2.68	3.03	2.90	2.53	3.86	2.76	2.41	2.65	2.05	2.02	1.79	1.85	
26	2.53	2.87	3.02	2.44	4.17	2.98	2.42	2.47	2.07	2.06	1.79	1.80	
27	2.41	2.63	3.05	2.47	4.24	3.27	2.40	2.42	2.06	2.02	1.81	1.80	
28	2.58	2.53	3.05	2.62	3.99	3.26	2.38	2.41	2.06	1.85	1.78	1.86	
29	2.64	2.40	3.03	2.95	3.73	3.07	2.38	2.40	2.06	1.83		1.83	
30	2.57	2.35	2.87	2.86	3.54	2.89	2.37	2.37	2.06	1.86		1.89	
31		2.35		2.90	3.33		2.35		2.03	1.87		1.88	
Mean	2.58	2.59	3.05	2.78	3.24	3.41	2.68	2.63	2.24	1.98	1.89	1.86	
Max	2.84	3.10	3.60	2.95	4.24	5.22	3.53	3.38	2.38	2.06	2.03	2.02	5.22
Min	2.26	2.35	2.39	2.44	2.39	2.73	2.35	2.36	2.03	1.83	1.78	1.73	1.73

Annual Max Momentary Gage Height 5.30 M (A.D), at 13.00 Hours, on Sep 4, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.62 M (A.D)
Left Bank Elevation 5.61 M (A.D)
Right Bank Elevation 7.38 M (A.D), Drainage Area 5289 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.18	24.86	20.01	45.30	45.30	83.70	38.13	18.84	18.84	8.24	6.02	4.52	
2	28.54	27.16	20.40	43.50	39.31	116.70	33.50	30.50	19.23	8.78	8.51	4.34	
3	22.00	28.08	20.01	41.70	34.59	209.60	31.00	31.00	19.23	8.78	8.24	3.02	
4	19.23	41.70	27.16	39.90	33.00	310.40	27.16	30.00	19.62	8.78	6.86	2.89	
5	21.20	53.28	30.00	38.13	70.50	275.00	28.08	28.08	19.62	8.78	5.81	4.34	
6	20.80	58.80	44.10	42.90	76.50	206.80	32.00	72.75	19.62	8.78	5.81	4.52	
7	20.40	38.13	75.00	44.10	69.00	147.50	30.50	79.50	19.23	8.24	6.02	5.06	
8	20.01	32.50	55.35	46.50	50.70	120.00	34.59	51.90	19.62	7.97	5.60	5.24	
9	15.22	28.54	70.50	45.30	40.50	107.00	37.54	39.90	19.23	7.97	6.02	5.42	
10	24.00	24.86	75.75	44.10	20.01	94.50	47.10	36.36	18.06	7.97	6.23	5.42	
11	28.54	26.70	60.24	42.30	24.00	96.30	86.40	32.50	17.67	7.97	5.06	4.34	
12	29.00	23.60	50.70	39.31	23.20	92.70	92.70	31.00	18.06	8.51	4.88	3.98	
13	30.00	22.40	71.25	37.54	31.00	72.00	64.56	28.54	18.06	8.24	6.02	4.52	
14	30.00	21.60	99.00	30.00	93.60	53.28	50.70	27.16	17.67	7.28	6.23	4.70	
15	31.00	20.40	72.00	38.72	76.50	50.70	42.30	26.70	17.28	6.44	6.44	4.88	
16	30.50	21.60	93.60	41.10	67.50	51.90	34.00	25.78	16.89	7.07	6.44	5.42	
17	38.72	25.78	87.30	39.90	66.75	54.66	30.50	24.86	15.86	6.86	5.81	8.24	
18	39.31	23.20	76.50	37.54	57.42	50.10	26.70	24.00	15.22	7.07	4.88	5.60	
19	38.72	24.86	73.50	36.95	52.59	50.10	25.32	24.40	14.90	7.07	4.16	4.52	
20	38.13	21.60	66.00	37.54	71.25	48.90	31.00	23.60	14.90	6.86	4.70	4.70	
21	37.54	20.80	67.50	40.50	93.60	38.72	33.00	22.80	11.85	6.65	5.24	5.42	
22	42.30	20.80	54.66	41.10	107.00	41.10	30.00	32.50	10.40	6.02	5.42	5.06	
23	41.70	37.54	49.50	42.90	87.30	36.95	25.32	38.72	9.59	6.44	5.60	6.65	
24	34.59	40.50	51.30	32.00	87.30	35.77	22.80	38.72	9.05	6.44	4.88	8.24	
25	33.00	53.97	45.90	25.78	126.60	37.54	20.80	31.50	9.05	8.24	3.67	4.70	
26	25.78	44.10	53.28	22.00	161.40	50.70	21.20	23.20	9.59	9.32	3.67	3.80	
27	20.80	30.50	55.35	23.20	170.20	71.25	20.40	21.20	9.32	8.24	3.98	3.80	
28	28.08	25.78	55.35	30.00	140.90	70.50	19.62	20.80	9.32	4.70	3.54	4.88	
29	31.00	20.40	53.97	48.90	112.30	56.73	19.62	20.40	9.32	4.34		4.34	
30	27.62	18.45	44.10	43.50	93.60	45.30	19.23	19.23	9.32	4.88		5.42	
31		18.45		45.90	75.75		18.45		8.51	5.06		5.24	
Total	863.91	920.94	1719.28	1208.11	2299.17	2776.40	1074.22	956.44	464.13	227.99	155.74	153.22	12819.55 CMSDAY
Mean	28.80	29.71	57.31	38.97	74.17	92.55	34.65	31.88	14.97	7.35	5.56	4.94	35.12 CMS
Max	42.30	58.80	99.00	48.90	170.20	310.40	92.70	79.50	19.62	9.32	8.51	8.24	310.40 CMS
Min	15.22	18.45	20.01	22.00	20.01	35.77	18.45	18.84	8.51	4.34	3.54	2.89	2.89 CMS
Runoff	74.642	79.569	148.546	104.381	198.648	239.881	92.813	82.636	40.101	19.698	13.456	13.238	1107.609 MCM

Momentary Peak 324.00 CMS, at 5.30 M (A.D), at 13.00 Hours, on Sep 4, 1996

Runoff Yield 6.64 Liters/Second/Square KM, Momentary Peak Yield 61.259 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

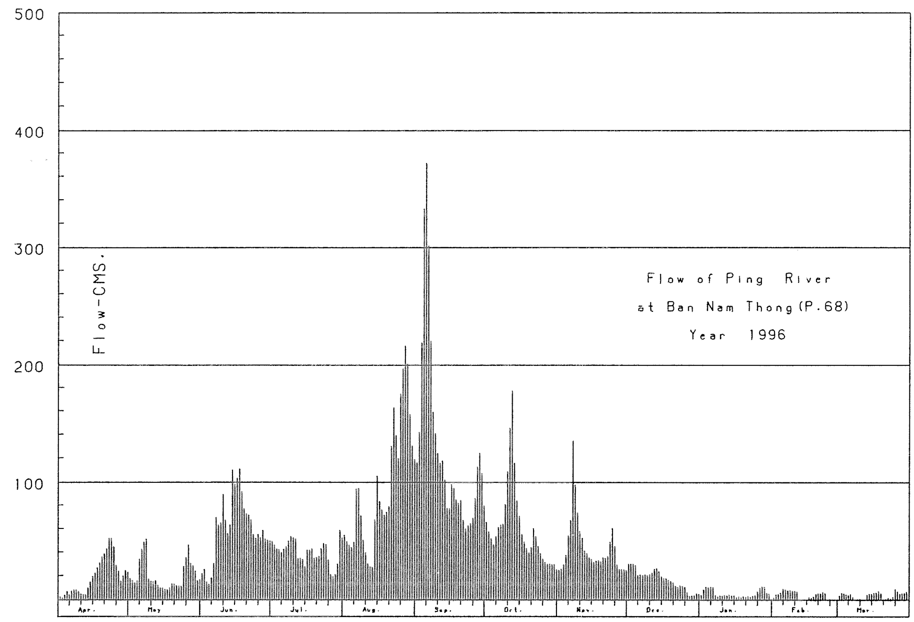
Ping River at Ban Nam Thong, Chiang Mai (P.68)

Location	Lat. 18°-40'-46" N., Long. 98°-59'-16" E , on right bank at the bridge on highway, Ban Nam Thong, Amphoe Hang Dong, Chiang Mai.
Drainage Area	6,430 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 3 meters from the top staff gage.
Elevation	+7.173 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	1995 to date.
Rating Operation	
Period of Rating	1995 to date.
Rated by Float	-
Rated by Current Meter	1995 to date.
Stability of Channel Regimes	Rather unstable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The old Mae Ping weir situated about 500 meters upstream from the gage site. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	1.37	1.46	2.01	2.10	3.03	2.28	1.54	1.65	0.87	0.72	0.84	
2	0.69	1.31	1.55	1.95	2.01	3.37	2.15	1.55	1.64	1.09	0.87	0.95	
3	0.83	1.27	1.28	1.90	1.95	4.31	2.05	1.64	1.65	1.16	0.93	0.95	
4	1.03	1.30	1.24	1.88	1.92	5.50	1.96	1.79	1.62	1.16	0.96	0.87	
5	0.89	1.72	1.38	1.84	1.99	5.88	2.08	2.10	1.44	1.16	1.12	0.87	
6	1.02	1.89	1.65	1.88	2.71	5.19	2.22	2.30	1.44	1.16	1.08	0.90	
7	1.08	2.00	2.34	1.93	2.73	4.32	2.24	3.28	1.44	0.84	1.06	0.75	
8	1.06	2.04	2.25	2.01	2.36	3.59	2.26	2.76	1.44	0.80	1.06	0.49	
9	1.02	1.36	2.27	2.09	2.03	3.36	2.51	2.41	1.44	0.82	1.05	0.60	
10	0.90	1.31	2.65	2.07	1.83	3.13	2.93	2.16	1.44	0.83	1.05	0.63	
11	0.86	1.28	2.31	2.04	1.65	3.02	3.42	2.07	1.49	0.84	1.00	0.59	
12	0.89	1.32	2.13	1.74	1.59	3.05	3.81	1.86	1.55	0.85	0.51	0.52	
13	1.14	1.20	2.24	1.74	1.59	2.83	3.02	1.82	1.57	0.87	0.51	0.89	
14	1.28	1.14	2.94	1.73	2.31	2.46	2.57	1.76	1.51	0.85	0.54	0.93	
15	1.40	1.12	2.77	1.59	2.87	2.46	2.36	1.72	1.41	0.82	0.63	0.93	
16	1.48	1.08	2.85	1.87	2.56	2.77	2.12	1.68	1.36	0.74	0.69	0.95	
17	1.57	1.08	2.96	1.88	2.45	2.73	2.00	1.69	1.37	0.75	0.70	0.99	
18	1.67	1.13	2.68	1.89	2.37	2.58	1.90	1.71	1.33	0.74	0.73	1.02	
19	1.76	1.25	2.46	1.74	2.41	2.53	1.84	1.68	1.31	0.75	0.93	0.96	
20	1.82	1.23	2.39	1.76	2.49	2.57	1.92	1.76	1.27	0.76	0.93	0.60	
21	1.89	1.20	2.38	1.77	3.21	2.31	2.20	1.74	1.20	0.78	0.96	0.65	
22	2.06	1.18	2.31	1.90	3.64	2.19	2.09	1.78	1.15	0.78	0.98	0.66	
23	2.05	1.19	2.12	1.98	3.34	2.24	1.93	2.00	1.21	0.78	0.96	0.67	
24	1.93	1.60	2.05	1.96	3.07	2.26	1.83	2.21	1.18	0.86	0.51	0.74	
25	1.63	1.76	2.12	1.72	3.78	2.34	1.74	1.94	1.17	1.03	0.62	1.11	
26	1.51	1.95	2.06	1.45	4.05	2.59	1.67	1.63	0.98	1.13	0.48	1.01	
27	1.31	1.65	2.18	1.39	4.28	2.98	1.65	1.55	0.82	1.18	0.47	0.94	
28	1.41	1.62	2.04	1.45	4.09	3.13	1.64	1.54	0.80	1.16	0.47	0.93	
29	1.53	1.51	2.03	1.64	3.56	2.90	1.64	1.54	0.85	0.97		0.97	
30	1.49	1.32	2.01	2.18	3.22	2.50	1.63	1.53	0.92	0.92		1.00	
31		1.33		2.06	3.06		1.54		0.90	0.51		0.97	
Mean	1.33	1.41	2.17	1.84	2.68	3.14	2.17	1.89	1.31	0.90	0.80	0.83	
Max	2.06	2.04	2.96	2.18	4.28	5.88	3.81	3.28	1.65	1.18	1.12	1.11	5.88
Min	0.69	1.08	1.24	1.39	1.59	2.19	1.54	1.53	0.80	0.51	0.47	0.49	0.47

Annual Max Momentary Gage Height 5.91 M (A.D), at 12.00 Hours, on Sep 5, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.93 M (A.D)
Left Bank Elevation 6.73 M (A.D)
Right Bank Elevation 7.13 M (A.D), Drainage Area 6430 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	18.80	22.40	50.05	55.00	117.25	66.20	25.80	31.00	4.55	2.58	4.10	
2	2.22	16.40	26.25	46.75	50.05	142.75	58.00	26.25	30.50	9.16	4.55	6.00	
3	3.95	14.92	15.28	44.00	46.75	219.40	52.25	30.50	31.00	11.20	5.60	6.00	
4	7.72	16.00	13.84	42.90	45.10	333.00	47.30	38.00	29.50	11.20	6.20	4.55	
5	4.85	34.50	19.20	40.70	48.95	372.64	53.90	55.00	21.60	11.20	10.00	4.55	
6	7.48	43.45	31.00	42.90	94.20	302.00	62.30	67.50	21.60	11.20	8.92	5.00	
7	8.92	49.50	70.10	45.65	95.60	220.30	63.60	136.00	21.60	4.10	8.44	2.93	
8	8.44	51.70	64.25	50.05	71.40	160.20	64.90	97.70	21.60	3.50	8.44	0.45	
9	7.48	18.40	65.55	54.45	51.15	142.00	81.15	74.65	21.60	3.80	8.20	1.00	
10	5.00	16.40	90.25	53.35	40.15	124.75	109.75	58.60	21.60	3.95	8.20	1.40	
11	4.40	15.28	68.15	51.70	31.00	116.50	146.60	53.35	23.60	4.10	7.00	0.95	
12	4.85	16.80	56.80	35.50	28.05	118.75	177.80	41.80	26.25	4.25	0.55	0.60	
13	10.60	12.40	63.60	35.50	28.05	102.60	116.50	39.60	27.15	4.55	0.55	4.85	
14	15.28	10.60	110.50	35.00	68.15	77.90	85.05	36.50	24.45	4.25	0.70	5.60	
15	20.00	10.00	98.40	28.05	105.40	77.90	71.40	34.50	20.40	3.80	1.40	5.60	
16	23.20	8.92	104.00	42.35	84.40	98.40	56.20	32.50	18.40	2.81	2.22	6.00	
17	27.15	8.92	112.00	42.90	77.25	95.60	49.50	33.00	18.80	2.93	2.35	6.80	
18	32.00	10.30	92.20	43.45	72.05	85.70	44.00	34.00	17.20	2.81	2.70	7.48	
19	36.50	14.20	77.90	35.50	74.65	82.45	40.70	32.50	16.40	2.93	5.60	6.20	
20	39.60	13.48	73.35	36.50	79.85	85.05	45.10	36.50	14.92	3.04	5.60	1.00	
21	43.45	12.40	72.70	37.00	130.75	68.15	61.00	35.50	12.40	3.27	6.20	1.67	
22	52.80	11.80	68.15	44.00	164.20	60.40	54.45	37.50	10.90	3.27	6.60	1.81	
23	52.25	12.10	56.20	48.40	140.50	63.60	45.65	49.50	12.76	3.27	6.20	1.95	
24	45.65	28.50	52.25	47.30	120.25	64.90	40.15	61.65	11.80	4.40	0.55	2.81	
25	30.00	36.50	56.20	34.50	175.40	70.10	35.50	46.20	11.50	7.72	1.27	9.70	
26	24.45	46.75	52.80	22.00	197.25	86.35	32.00	30.00	6.60	10.30	0.40	7.24	
27	16.40	31.00	59.80	19.60	216.80	113.50	31.00	26.25	3.80	11.80	0.35	5.80	
28	20.40	29.50	51.70	22.00	200.65	124.75	30.50	25.80	3.50	11.20	0.35	5.60	
29	25.35	24.45	51.15	30.50	157.80	107.50	30.50	25.80	4.25	6.40		6.40	
30	23.60	16.80	50.05	59.80	131.50	80.50	30.00	25.35	5.40	5.40		7.00	
31		17.20		52.80	119.50		25.80		5.00	0.55		6.40	
Total	606.69	667.97	1846.02	1275.15	3001.80	3914.89	1908.75	1347.80	547.08	176.91	121.72	137.44	15552.22 CMSDAY
Mean	20.22	21.55	61.53	41.13	96.83	130.50	61.57	44.93	17.65	5.71	4.35	4.43	42.61 CMS
Max	52.80	51.70	112.00	59.80	216.80	372.64	177.80	136.00	31.00	11.80	10.00	9.70	372.64 CMS
Min	2.22	8.92	13.84	19.60	28.05	60.40	25.80	25.35	3.50	0.55	0.35	0.45	0.35 CMS
Runoff	52.418	57.713	159.496	110.173	259.356	338.246	164.916	116.450	47.268	15.285	10.517	11.875	1343.712 MCM

Momentary Peak 375.88 CMS, at 5.91 M (A.D), at 12.00 Hours, on Sep 5, 1996

Runoff Yield 6.63 Liters/Second/Square KM, Momentary Peak Yield 58.457 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

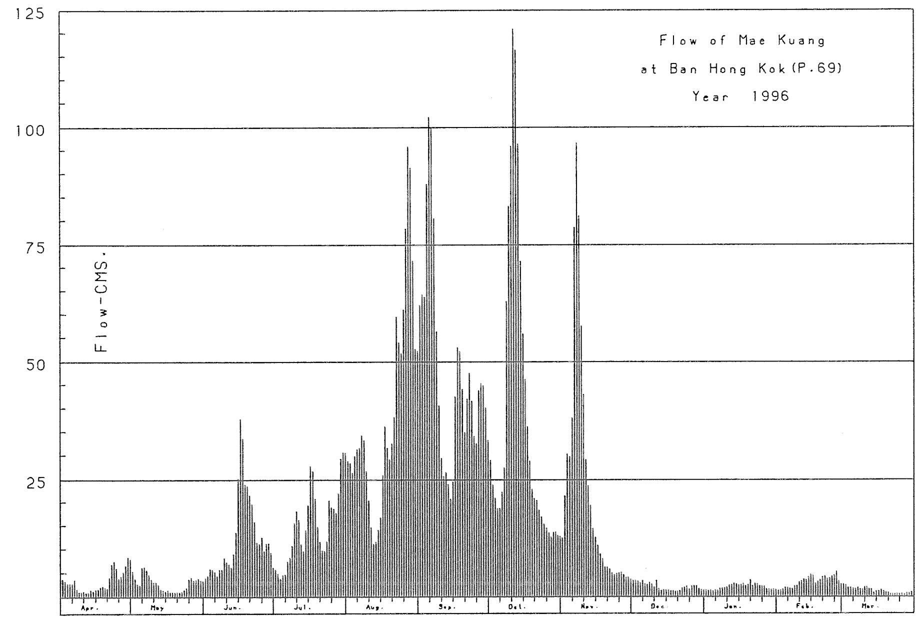
Nam Mae Kuang at Ban Hong Kok, Lamphun (P.69)

Location	Lat. 18°-39′-06″ N , Long. 99°-04′-02″ E , on right bank at the bridge on highway, Ban Hong Kok, Amphoe Muang, Lamphun.
Drainage Area	1,602 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 3 meters from the top staff gage.
Elevation	+5.590 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	1995 to date.
Rating Operation	
Period of Rating	1995 to date.
Rated by Float	-
Rated by Current Meter	1995 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 51 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.83	0.71	0.86	2.02	3.12	2.03	1.28	0.68	0.49	0.49	0.77	
2	0.66	0.71	0.76	0.79	2.01	3.18	1.82	1.72	0.67	0.49	0.48	0.75	
3	0.63	0.61	0.86	0.71	1.92	3.17	1.70	2.08	0.67	0.48	0.52	0.72	
4	0.62	0.60	0.86	0.76	2.07	3.83	1.59	2.06	0.63	0.47	0.54	0.71	
5	0.63	0.89	0.82	0.78	2.12	4.20	1.60	2.35	0.68	0.49	0.55	0.71	
6	0.68	0.89	0.76	0.97	2.13	4.14	1.75	3.59	0.61	0.49	0.52	0.69	
7	0.52	0.85	0.85	1.03	2.23	3.64	1.97	4.06	0.61	0.52	0.53	0.72	
8	0.42	0.77	0.86	1.18	2.19	2.95	3.14	3.65	0.64	0.54	0.57	0.68	
9	0.44	0.70	1.02	1.44	1.94	2.43	3.71	2.99	0.61	0.53	0.59	0.69	
10	0.45	0.64	0.97	1.57	1.67	2.05	4.04	2.51	0.56	0.56	0.65	0.73	
11	0.42	0.64	0.93	1.47	1.39	1.89	4.67	2.04	0.68	0.59	0.66	0.72	
12	0.42	0.61	0.89	1.21	1.21	1.93	4.56	1.81	0.52	0.61	0.70	0.70	
13	0.49	0.52	1.07	1.11	1.23	1.82	4.05	1.63	0.49	0.62	0.68	0.68	
14	0.47	0.48	1.34	1.36	1.37	1.69	3.39	1.38	0.49	0.62	0.73	0.60	
15	0.50	0.46	1.87	1.63	1.50	1.84	2.94	1.29	0.50	0.59	0.78	0.62	
16	0.52	0.49	2.34	1.98	1.90	2.50	2.62	1.19	0.49	0.61	0.75	0.63	
17	0.55	0.44	2.21	1.94	2.29	2.85	2.29	1.08	0.48	0.62	0.63	0.68	
18	0.58	0.42	1.82	1.69	2.13	2.82	2.02	1.01	0.46	0.59	0.65	0.63	
19	0.55	0.43	1.81	1.40	2.04	2.55	1.78	0.90	0.46	0.60	0.69	0.61	
20	0.53	0.43	1.72	1.23	2.17	2.25	1.69	0.89	0.44	0.69	0.73	0.58	
21	0.73	0.43	1.64	1.12	2.35	2.48	1.67	0.87	0.48	0.58	0.75	0.53	
22	0.93	0.44	1.45	1.12	3.05	2.67	1.58	0.80	0.53	0.63	0.70	0.49	
23	0.98	0.51	1.22	1.24	2.88	2.47	1.50	0.78	0.56	0.61	0.72	0.50	
24	0.87	0.54	1.21	1.67	2.81	2.22	1.43	0.79	0.57	0.59	0.74	0.49	
25	0.71	0.70	1.29	1.61	3.09	2.17	1.38	0.81	0.52	0.58	0.77	0.53	
26	0.74	0.72	1.11	1.59	3.58	2.54	1.33	0.81	0.57	0.57	0.82	0.50	
27	0.82	0.68	1.21	1.55	4.04	2.59	1.29	0.78	0.59	0.52	0.81	0.52	
28	0.91	0.68	1.22	1.74	3.92	2.58	1.34	0.72	0.58	0.51	0.76	0.55	
29	1.04	0.71	1.10	2.04	3.39	2.42	1.34	0.73	0.53	0.51		0.57	
30	1.00	0.67	0.88	2.10	2.84	2.19	1.31	0.69	0.49	0.51		0.60	
31		0.67		2.09	2.82		1.29		0.50	0.50		0.61	
Mean	0.65	0.62	1.23	1.39	2.33	2.64	2.22	1.58	0.56	0.56	0.66	0.63	
Max	1.04	0.89	2.34	2.10	4.04	4.20	4.67	4.06	0.68	0.69	0.82	0.77	4.67
Min	0.42	0.42	0.71	0.71	1.21	1.69	1.29	0.69	0.44	0.47	0.48	0.49	0.42

Annual Max Momentary Gage Height 4.72 M (A.D), at 18.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.18 M (A.D)
Left Bank Elevation 5.96 M (A.D)
Right Bank Elevation 5.71 M (A.D), Drainage Area 1602 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.89	5.52	4.01	5.94	28.90	62.20	29.15	12.64	3.63	1.48	1.48	2.81	
2	3.37	4.01	4.62	4.98	28.65	64.30	23.98	21.66	3.50	1.48	1.42	2.52	
3	2.99	2.73	5.94	4.01	26.40	63.95	21.20	30.40	3.50	1.42	1.76	2.08	
4	2.86	2.60	5.94	4.62	30.15	87.94	18.80	29.90	2.99	1.35	1.97	1.94	
5	2.99	6.36	5.38	4.86	31.44	102.30	19.00	38.25	3.63	1.48	2.08	1.94	
6	3.63	6.36	4.62	7.55	31.71	99.96	22.35	78.83	2.73	1.48	1.76	1.71	
7	1.76	5.80	5.80	8.46	34.53	80.72	27.65	96.84	2.73	1.76	1.86	2.08	
8	1.01	4.74	5.94	10.87	33.33	56.45	62.90	81.10	3.12	1.97	2.28	1.63	
9	1.15	3.89	8.31	15.80	26.90	40.68	83.38	57.77	2.73	1.86	2.49	1.71	
10	1.21	3.12	7.55	18.40	20.54	29.65	96.06	43.04	2.18	2.18	3.24	2.23	
11	1.01	3.12	6.95	16.40	14.80	25.66	121.00	29.40	3.63	2.49	3.37	2.08	
12	1.01	2.73	6.36	11.38	11.38	26.65	116.60	23.74	1.76	2.73	3.89	1.79	
13	1.48	1.76	9.09	9.72	11.74	23.98	96.45	19.66	1.48	2.86	3.63	1.63	
14	1.35	1.42	13.80	14.20	14.40	20.98	71.65	14.60	1.48	2.86	4.25	1.00	
15	1.55	1.28	25.18	19.66	17.00	24.46	56.12	12.82	1.55	2.49	4.86	1.16	
16	1.76	1.48	37.94	27.90	25.90	42.75	46.29	11.03	1.48	2.73	4.50	1.24	
17	2.08	1.15	33.91	26.90	36.39	53.20	36.39	9.24	1.42	2.86	2.99	1.63	
18	2.39	1.01	23.98	20.98	31.71	52.24	28.90	8.15	1.28	2.49	3.24	1.24	
19	2.08	1.08	23.74	15.00	29.40	44.22	23.04	6.50	1.28	2.60	3.76	1.08	
20	1.86	1.08	21.66	11.74	32.79	35.15	20.98	6.36	1.15	3.76	4.25	0.93	
21	4.25	1.08	19.88	9.88	38.25	42.16	20.54	6.08	1.42	2.39	4.50	0.75	
22	6.95	1.15	16.00	9.88	59.80	47.77	18.60	5.10	1.86	2.99	3.89	0.61	
23	7.70	1.65	11.56	11.92	54.16	41.86	17.00	4.86	2.18	2.73	4.13	0.64	
24	6.08	1.97	11.38	20.54	51.92	34.22	15.60	4.98	2.28	2.49	4.37	0.61	
25	4.01	3.89	12.82	19.22	61.16	32.79	14.60	5.24	1.76	2.39	4.74	0.75	
26	4.37	4.13	9.72	18.80	78.46	43.93	13.60	5.24	2.28	2.28	5.38	0.64	
27	5.38	3.63	11.38	18.00	96.06	45.40	12.82	4.86	2.49	1.76	3.44	0.71	
28	6.65	3.63	11.56	22.12	91.38	45.11	13.80	4.13	2.39	1.65	2.67	0.82	
29	8.62	4.01	9.55	29.40	71.65	40.39	13.80	4.25	1.86	1.65		0.89	
30	8.00	3.50	6.22	30.90	52.88	33.33	13.20	3.76	1.48	1.65		1.00	
31		3.50		30.65	52.24		12.82		1.55	1.55		1.08	
Total	103.44	93.38	380.79	480.68	1226.02	1444.40	1188.27	680.43	68.80	67.86	92.20	42.93	5869.20 CMSDAY
Mean	3.45	3.01	12.69	15.51	39.55	48.15	38.33	22.68	2.22	2.19	3.29	1.38	16.08 CMS
Max	8.62	6.36	37.94	30.90	96.06	102.30	121.00	96.84	3.63	3.76	5.38	2.81	121.00 CMS
Min	1.01	1.01	4.01	4.01	11.38	20.98	12.82	3.76	1.15	1.35	1.42	0.61	0.61 CMS
Runoff	8.937	8.068	32.900	41.531	105.928	124.796	102.667	58.789	5.944	5.863	7.966	3.709	507.099 MCM

Momentary Peak 123.02 CMS, at 4.72 M (A.D), at 18.00 Hours, on Oct 11, 1996

Runoff Yield 10.04 Liters/Second/Square KM, Momentary Peak Yield 76.792 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

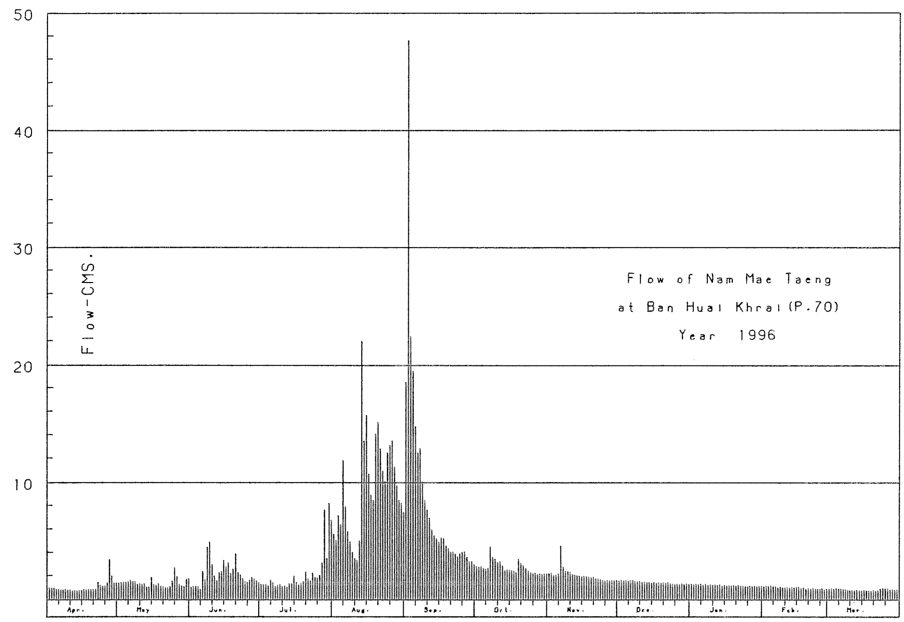
Nam Mae Taeng at Ban Huai Khrai, Chiang Mai (P.70)

Location	Lat. 19°39'08" N , Long. 98°40'10" E , on right bank at the bridge on highway, Ban Huai Khrai, Amphoe Wiang Haeng, Chiang Mai.
Drainage Area	182 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Temporary.
Location	On right bank downstream side at the pier of the bridge.
Elevation	+5.275 m.(A.D)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1995 to date.
Rating Operation	
Period of Rating	1995 to date.
Rated by Float	-
Rated by Current Meter	1995 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The concrete weir situated about 150 meters upstream from the gage site. Stage-dischare relation defined by 134 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.47	0.54	0.49	0.53	0.93	1.38	0.72	0.66	0.58	0.53	0.50	0.46	
2	0.47	0.56	0.49	0.52	0.90	2.00	0.72	0.66	0.58	0.53	0.50	0.46	
3	0.46	0.55	0.50	0.52	1.01	1.49	0.72	0.64	0.58	0.53	0.50	0.46	
4	0.45	0.56	0.49	0.51	0.97	1.41	0.71	0.64	0.58	0.53	0.50	0.46	
5	0.44	0.56	0.45	0.59	1.18	1.27	0.70	0.65	0.58	0.53	0.50	0.46	
6	0.44	0.59	0.68	0.55	1.04	1.20	0.71	0.87	0.58	0.52	0.49	0.45	
7	0.44	0.57	0.59	0.50	0.94	1.21	0.86	0.72	0.59	0.53	0.48	0.45	
8	0.44	0.56	0.86	0.51	0.89	1.12	0.80	0.68	0.57	0.52	0.48	0.44	
9	0.44	0.53	0.89	0.53	0.83	1.06	0.78	0.68	0.57	0.52	0.48	0.44	
10	0.43	0.53	0.74	0.50	0.79	1.03	0.76	0.67	0.57	0.52	0.48	0.43	
11	0.42	0.53	0.63	0.50	0.77	1.00	0.76	0.65	0.56	0.52	0.48	0.43	
12	0.42	0.53	0.58	0.49	0.90	0.95	0.73	0.64	0.56	0.52	0.48	0.43	
13	0.42	0.49	0.66	0.53	1.48	0.92	0.69	0.64	0.56	0.52	0.48	0.43	
14	0.42	0.48	0.68	0.54	1.23	0.91	0.69	0.63	0.55	0.51	0.48	0.43	
15	0.43	0.62	0.77	0.63	1.30	0.89	0.69	0.63	0.55	0.51	0.48	0.42	
16	0.44	0.52	0.72	0.55	1.14	0.91	0.69	0.63	0.55	0.51	0.48	0.43	
17	0.44	0.52	0.75	0.52	1.08	0.91	0.68	0.63	0.55	0.51	0.47	0.43	
18	0.44	0.53	0.66	0.54	1.06	0.87	0.67	0.62	0.55	0.51	0.47	0.42	
19	0.44	0.50	0.70	0.57	1.25	0.85	0.78	0.62	0.55	0.51	0.46	0.42	
20	0.44	0.49	0.82	0.67	1.28	0.83	0.75	0.62	0.55	0.51	0.46	0.43	
21	0.45	0.48	0.67	0.60	1.21	0.83	0.73	0.61	0.55	0.51	0.46	0.42	
22	0.55	0.47	0.64	0.58	1.15	0.82	0.71	0.60	0.55	0.51	0.46	0.42	
23	0.51	0.50	0.61	0.66	1.12	0.80	0.68	0.60	0.54	0.50	0.46	0.46	
24	0.50	0.57	0.56	0.62	1.20	0.82	0.67	0.58	0.53	0.50	0.45	0.46	
25	0.50	0.71	0.56	0.61	1.22	0.83	0.66	0.58	0.53	0.50	0.46	0.46	
26	0.55	0.63	0.58	0.64	1.23	0.83	0.66	0.58	0.53	0.50	0.46	0.46	
27	0.78	0.53	0.62	0.75	1.16	0.80	0.65	0.58	0.53	0.50	0.45	0.44	
28	0.63	0.50	0.60	1.03	1.11	0.76	0.65	0.58	0.53	0.50	0.45	0.44	
29	0.55	0.49	0.58	0.79	1.06	0.76	0.65	0.58	0.53	0.50		0.44	
30	0.54	0.60	0.55	1.05	1.05	0.74	0.65	0.58	0.53	0.50		0.44	
31		0.60		0.99	1.02		0.65		0.53	0.50		0.44	
Mean	0.48	0.54	0.64	0.62	1.08	1.01	0.71	0.64	0.55	0.51	0.47	0.44	
Max	0.78	0.71	0.89	1.05	1.48	2.00	0.86	0.87	0.59	0.53	0.50	0.46	2.00
Min	0.42	0.47	0.45	0.49	0.77	0.74	0.65	0.58	0.53	0.50	0.45	0.42	0.42

Annual Max Momentary Gage Height	2.98 M (A.D), at 3.00 Hours, on Sep 2, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed -0.03 M (A.D)
Left Bank Elevation	7.18 M (A.D)
Right Bank Elevation	2.56 M (A.D), Drainage Area 182 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	1.44	1.15	1.38	5.67	18.52	2.86	2.31	1.68	1.38	1.20	1.00	
2	1.05	1.56	1.15	1.32	5.10	47.70	2.86	2.31	1.68	1.38	1.20	1.00	
3	1.00	1.50	1.20	1.32	7.25	22.44	2.86	2.14	1.68	1.38	1.20	1.00	
4	0.95	1.56	1.15	1.26	6.43	19.56	2.76	2.14	1.68	1.38	1.20	1.00	
5	0.90	1.56	0.95	1.74	11.98	14.84	2.65	2.23	1.68	1.38	1.20	1.00	
6	0.90	1.74	2.48	1.50	8.00	12.60	2.76	4.68	1.68	1.32	1.15	0.95	
7	0.90	1.62	1.74	1.20	5.86	12.92	4.54	2.86	1.74	1.38	1.10	0.95	
8	0.90	1.56	4.54	1.26	4.96	10.12	3.70	2.48	1.62	1.32	1.10	0.90	
9	0.90	1.38	4.96	1.38	4.12	8.50	3.49	2.48	1.62	1.32	1.10	0.90	
10	0.85	1.38	3.07	1.20	3.60	7.75	3.28	2.40	1.62	1.32	1.10	0.85	
11	0.80	1.38	2.05	1.20	3.38	7.00	3.28	2.23	1.56	1.32	1.10	0.85	
12	0.80	1.38	1.68	1.15	5.10	6.05	2.97	2.14	1.56	1.32	1.10	0.85	
13	0.80	1.15	2.31	1.38	22.08	5.48	2.57	2.14	1.56	1.32	1.10	0.85	
14	0.80	1.10	2.48	1.44	13.56	5.29	2.57	2.05	1.50	1.26	1.10	0.85	
15	0.85	1.97	3.38	2.05	15.80	4.96	2.57	2.05	1.50	1.26	1.10	0.80	
16	0.90	1.32	2.86	1.50	10.74	5.29	2.57	2.05	1.50	1.26	1.10	0.85	
17	0.90	1.32	3.18	1.32	9.00	5.29	2.48	2.05	1.50	1.26	1.05	0.85	
18	0.90	1.38	2.31	1.44	8.50	4.68	2.40	1.97	1.50	1.26	1.05	0.80	
19	0.90	1.20	2.65	1.62	14.20	4.40	3.49	1.97	1.50	1.26	1.00	0.80	
20	0.90	1.15	3.98	2.40	15.16	4.12	3.18	1.97	1.50	1.26	1.00	0.85	
21	0.95	1.10	2.40	1.80	12.92	4.12	2.97	1.88	1.50	1.26	1.00	0.80	
22	1.50	1.05	2.14	1.68	11.05	3.98	2.76	1.80	1.50	1.26	1.00	0.80	
23	1.26	1.20	1.88	2.31	10.12	3.70	2.48	1.80	1.44	1.20	1.00	1.00	
24	1.20	1.62	1.56	1.97	12.60	3.98	2.40	1.68	1.38	1.20	0.95	1.00	
25	1.20	2.76	1.56	1.88	13.24	4.12	2.31	1.68	1.38	1.20	1.00	1.00	
26	1.50	2.05	1.68	2.14	13.56	4.12	2.31	1.68	1.38	1.20	1.00	1.00	
27	3.49	1.38	1.97	3.18	11.36	3.70	2.23	1.68	1.38	1.20	0.95	0.90	
28	2.05	1.20	1.80	7.75	9.81	3.28	2.23	1.68	1.38	1.20	0.95	0.90	
29	1.50	1.15	1.68	3.60	8.50	3.28	2.23	1.68	1.38	1.20		0.90	
30	1.44	1.80	1.50	8.25	8.25	3.07	2.23	1.68	1.38	1.20		0.90	
31		1.80		6.81	7.50		2.23		1.38	1.20		0.90	
Total	34.04	45.76	67.44	70.43	299.40	264.86	86.22	63.89	47.34	39.66	30.10	28.00	1077.14 CMSDAY
Mean	1.13	1.48	2.25	2.27	9.66	8.83	2.78	2.13	1.53	1.28	1.08	0.90	2.95 CMS
Max	3.49	2.76	4.96	8.25	22.08	47.70	4.54	4.68	1.74	1.38	1.20	1.00	47.70 CMS
Min	0.80	1.05	0.95	1.15	3.38	3.07	2.23	1.68	1.38	1.20	0.95	0.80	0.80 CMS
Runoff	2.941	3.954	5.827	6.085	25.868	22.884	7.449	5.520	4.090	3.427	2.601	2.419	93.065 MCM

Momentary Peak 128.16 CMS, at 2.98 M (A.D), at 3.00 Hours, on Sep 2, 1996

Runoff Yield 16.21 Liters/Second/Square KM, Momentary Peak Yield 704.176 Liters/Second/Square KM

WATER YEAR 1996

PING RIVER BASIN

Ping River at Ban Sop Wang , Chiang Mai. (P.71)

Location	Lat. 18°-32'-14" N , Long. 98°-51'-47" E , on left bank at the bridge on highway, Ban Sop Wang , Amphoe San Pa Tong , Chiang Mai.
Drainage Area	1,771 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 3 meters from the top staff gage.
Elevation	+6.400 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The concrete weir made by R.I.D.at about 3 kms. and temporary weir at about 300 meters downstream. Stage-discharge relation defined by 48 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

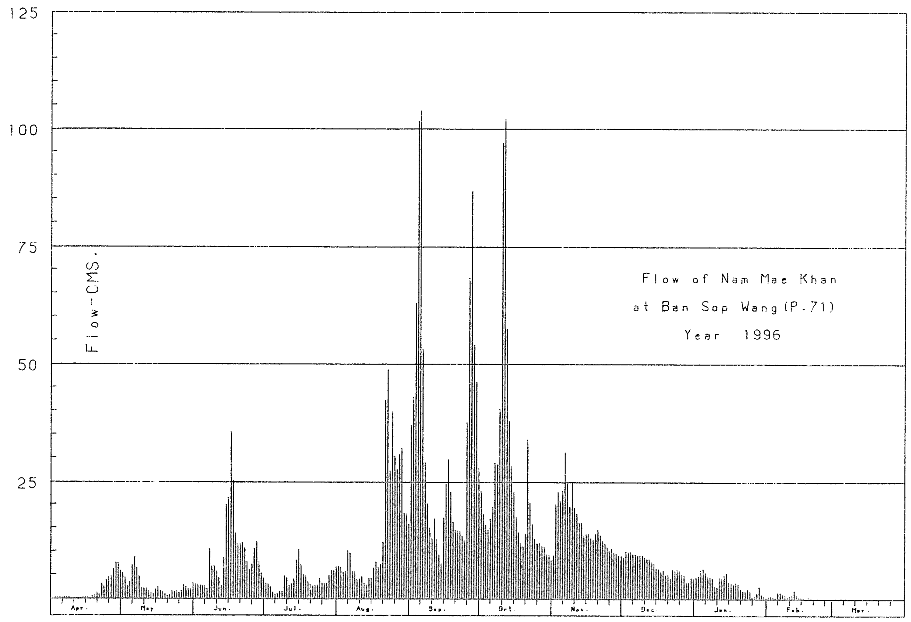
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	1.05	0.89	0.90	1.14	2.48	1.91	1.27	1.25	0.98	0.65	0.52	
2	0.60	0.98	0.88	0.90	1.12	2.69	1.70	1.79	1.31	1.01	0.67	0.52	
3	0.60	0.86	0.88	0.84	1.06	3.37	1.60	1.91	1.31	1.08	0.62	0.57	
4	0.60	0.92	0.86	0.75	1.06	4.51	1.54	1.82	1.31	1.11	0.60	0.55	
5	0.60	1.15	0.86	0.70	1.32	4.58	1.66	1.91	1.29	1.05	0.75	0.53	
6	0.60	1.25	0.80	0.72	1.30	3.04	1.77	2.26	1.28	1.00	0.74	0.54	
7	0.62	1.11	1.34	0.76	1.07	2.17	2.16	2.00	1.27	0.99	0.72	0.59	
8	0.59	1.00	1.13	0.76	1.06	1.80	2.15	1.77	1.26	0.98	0.68	0.58	
9	0.57	0.83	1.14	1.00	0.96	1.56	2.60	2.00	1.27	0.85	0.63	0.53	
10	0.57	0.82	1.07	0.98	0.96	1.45	4.38	1.76	1.24	0.85	0.68	0.60	
11	0.57	0.81	0.97	0.86	1.00	1.66	4.52	1.71	1.23	0.98	0.67	0.62	
12	0.58	0.78	0.87	0.90	0.90	1.44	3.19	1.61	1.22	0.98	0.79	0.60	
13	0.59	0.72	1.23	0.96	0.88	1.28	2.51	1.62	1.19	1.01	0.68	0.60	
14	0.59	0.72	1.79	1.21	0.97	1.16	2.14	1.48	1.17	1.05	0.65	0.60	
15	0.62	0.79	1.85	1.33	0.98	1.67	1.90	1.50	1.11	0.91	0.60	0.60	
16	0.60	0.84	2.42	1.15	1.11	1.99	1.67	1.50	1.10	0.90	0.57	0.60	
17	0.60	0.78	2.01	1.03	1.19	2.19	1.52	1.45	1.06	0.89	0.56	0.60	
18	0.63	0.75	1.51	1.01	1.12	1.91	1.40	1.44	1.09	0.91	0.64	0.60	
19	0.69	0.72	1.39	0.93	1.16	1.62	1.37	1.50	1.02	0.90	0.59	0.60	
20	0.74	0.65	1.39	0.88	1.41	1.54	1.50	1.55	1.02	0.81	0.56	0.60	
21	0.70	0.69	1.41	0.86	2.67	1.53	2.36	1.49	0.98	0.78	0.58	0.60	
22	0.90	0.77	1.35	0.86	2.90	1.53	1.81	1.43	1.09	0.77	0.55	0.61	
23	0.84	0.76	1.19	0.88	2.09	1.47	1.60	1.40	1.08	0.81	0.53	0.60	
24	0.95	0.76	1.09	0.97	2.58	1.43	1.45	1.36	1.09	0.77	0.52	0.60	
25	0.98	0.74	1.16	0.91	2.22	2.50	1.40	1.32	1.08	0.64	0.50	0.59	
26	1.00	0.77	1.34	0.90	2.11	3.53	1.40	1.34	1.03	0.63	0.50	0.58	
27	1.10	0.88	1.42	0.91	2.24	4.08	1.37	1.30	1.01	0.73	0.50	0.59	
28	1.18	0.84	1.18	1.01	2.29	3.07	1.36	1.29	0.92	0.86	0.50	0.50	
29	1.17	0.81	1.05	1.08	1.71	2.81	1.28	1.27	0.91	0.70		0.49	
30	1.07	0.80	0.97	1.07	1.70	2.11	1.27	1.26	0.98	0.67		0.50	
31		0.90		1.12	1.60		1.20		0.97	0.59		0.60	
Mean	0.74	0.85	1.25	0.94	1.48	2.27	1.93	1.58	1.13	0.88	0.62	0.57	
Max	1.18	1.25	2.42	1.33	2.90	4.58	4.52	2.26	1.31	1.11	0.79	0.62	4.58
Min	0.57	0.65	0.80	0.70	0.88	1.16	1.20	1.26	0.91	0.59	0.50	0.49	0.49

Annual Max Momentary Gage Height 4.70 M (A.D), at 22.00 Hours, on Oct 10, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.01 M (A.D)

Left Bank Elevation 4.49 M (A.D)

Right Bank Elevation 4.48 M (A.D), Drainage Area 1771 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	5.70	3.23	3.35	7.20	37.26	23.04	9.48	9.13	4.59	0.70	0.16	
2	0.40	4.59	3.10	3.35	6.85	43.02	18.20	20.27	10.20	5.06	0.82	0.16	
3	0.40	2.85	3.10	2.60	5.86	63.10	16.00	23.04	10.20	6.18	0.52	0.31	
4	0.40	3.66	2.85	1.55	5.86	101.75	14.80	20.96	10.20	6.67	0.40	0.25	
5	0.40	7.37	2.85	1.00	10.40	104.20	17.32	23.04	9.82	5.70	1.55	0.19	
6	0.40	9.13	2.10	1.22	10.00	53.20	19.81	31.50	9.65	4.90	1.44	0.22	
7	0.52	6.67	10.80	1.66	6.02	29.28	29.04	25.20	9.48	4.75	1.22	0.37	
8	0.37	4.90	7.02	1.66	5.86	20.50	28.80	19.81	9.30	4.59	0.88	0.34	
9	0.31	2.47	7.20	4.90	4.28	15.20	40.50	25.20	9.48	2.73	0.58	0.06	
10	0.31	2.35	6.02	4.59	4.28	13.00	97.22	19.58	8.95	2.73	0.88	0.15	
11	0.31	2.23	4.44	2.85	4.90	17.32	102.10	18.43	8.78	4.59	0.82	0.18	
12	0.34	1.88	2.98	3.35	3.35	12.80	57.70	16.22	8.60	4.59	1.99	0.15	
13	0.37	1.22	8.78	4.28	3.10	9.65	38.07	16.44	8.08	5.06	0.88	0.15	
14	0.37	1.22	20.27	8.43	4.44	7.55	28.56	13.60	7.72	5.70	0.70	0.15	
15	0.52	1.99	21.65	10.60	4.59	17.54	22.80	14.00	6.67	3.51	0.40	0.15	
16	0.40	2.60	35.64	7.37	6.67	24.96	17.54	14.00	6.50	3.35	0.31	0.15	
17	0.40	1.88	25.44	5.38	8.08	29.76	14.40	13.00	5.86	3.23	0.28	0.15	
18	0.58	1.55	14.20	5.06	6.85	23.04	12.00	12.80	6.34	3.51	0.64	0.15	
19	0.94	1.22	11.80	3.82	7.55	16.44	11.40	14.00	5.22	3.35	0.37	0.15	
20	1.44	0.70	11.80	3.10	12.20	14.80	14.00	15.00	5.22	2.23	0.28	0.15	
21	1.00	0.94	12.20	2.85	42.46	14.60	34.06	13.80	4.59	1.88	0.34	0.15	
22	3.35	1.77	11.00	2.85	49.00	14.60	20.73	12.60	6.34	1.77	0.25	0.17	
23	2.60	1.66	8.08	3.10	27.36	13.40	16.00	12.00	6.18	2.23	0.19	0.15	
24	4.13	1.66	6.34	4.44	39.96	12.60	13.00	11.20	6.34	1.77	0.16	0.15	
25	4.59	1.44	7.55	3.51	30.50	37.80	12.00	10.40	6.18	0.64	0.10	0.14	
26	4.90	1.77	10.80	3.35	27.84	68.32	12.00	10.80	5.38	0.58	0.10	0.12	
27	6.50	3.10	12.40	3.51	31.00	87.02	11.40	10.00	5.06	1.33	0.10	0.14	
28	7.90	2.60	7.90	5.06	32.25	54.10	11.20	9.82	3.66	2.85	0.10	0.02	
29	7.72	2.23	5.70	6.18	18.43	46.39	9.65	9.48	3.51	1.00		0.02	
30	6.02	2.10	4.44	6.02	18.20	27.84	9.48	9.30	4.59	0.82		0.02	
31		3.35		6.85	16.00		8.25		4.44	0.37		0.15	
Total	58.29	88.80	291.68	127.84	461.34	1031.04	781.07	474.97	221.67	102.26	17.00	4.97	3660.93 CMSDAY
Mean	1.94	2.86	9.72	4.12	14.88	34.37	25.20	15.83	7.15	3.30	0.61	0.16	10.03 CMS
Max	7.90	9.13	35.64	10.60	49.00	104.20	102.10	31.50	10.20	6.67	1.99	0.37	104.20 CMS
Min	0.31	0.70	2.10	1.00	3.10	7.55	8.25	9.30	3.51	0.37	0.10	0.02	0.02 CMS
Runoff	5.036	7.672	25.201	11.045	39.860	89.082	67.484	41.037	19.152	8.835	1.469	0.429	316.304 MCM

Momentary Peak 108.70 CMS, at 4.70 M (A.D), at 22.00 Hours, on Oct 10, 1996

Runoff Yield 5.66 Liters/Second/Square KM, Momentary Peak Yield 61.378 Liters/Second/Square KM

WATER YEAR 1996

WANG RIVER BASIN

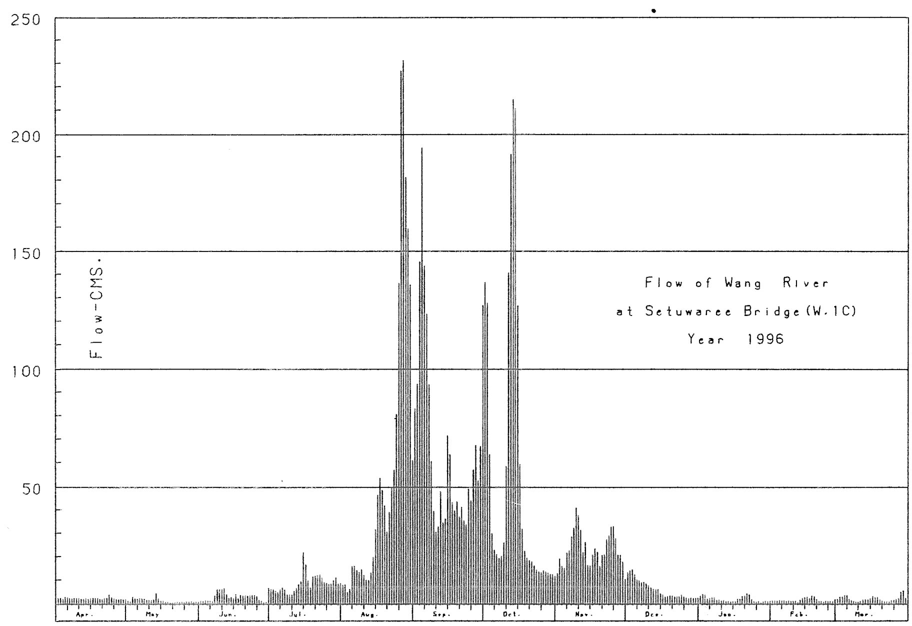
Wang River at Setu Wari Bridge, Lampang (W.1C)

Location	Lat. 18°-17′-51″ N., Long. 99°-30′-56″ E., on left bank at Setu Wari Bridge about 3 kms. upstream from station W.1B, Amphoe Muang, Lampang.
Drainage Area	3,478 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+229.30 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+234.435 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the rubber weir about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 56 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.28	229.21	229.19	229.45	229.52	231.02	231.66	229.68	229.69	229.33	229.80	229.27	
2	229.28	229.19	229.20	229.45	229.52	231.16	231.57	229.85	229.71	229.37	229.75	229.31	
3	229.27	229.31	229.21	229.42	229.40	231.75	230.74	229.77	229.73	229.35	229.79	229.32	
4	229.31	229.28	229.22	229.40	229.45	232.17	230.11	229.74	229.66	229.27	229.80	229.34	
5	229.31	229.27	229.20	229.44	229.77	231.73	229.95	229.92	229.60	229.28	229.80	229.35	
6	229.28	229.27	229.20	229.48	229.77	231.52	229.90	229.94	229.58	229.31	229.77	229.26	
7	229.28	229.27	229.33	229.44	229.72	231.16	229.86	230.08	229.56	229.30	229.74	229.23	
8	229.28	229.26	229.45	229.36	229.69	230.69	229.88	230.16	229.56	229.24	229.74	229.20	
9	229.28	229.23	229.44	229.35	229.73	230.31	230.02	230.34	229.54	229.24	229.74	229.18	
10	229.28	229.22	229.45	229.36	229.65	230.12	230.66	230.27	229.51	229.22	229.74	229.18	
11	229.27	229.22	229.46	229.41	229.59	230.17	231.70	230.14	229.48	229.22	229.73	229.19	
12	229.27	229.25	229.36	229.47	229.59	230.47	232.15	229.92	229.45	229.20	229.16	229.24	
13	229.27	229.38	229.28	229.52	229.69	230.21	232.33	230.03	229.45	229.19	229.23	229.24	
14	229.27	229.26	229.31	229.57	229.87	230.24	232.30	229.78	229.45	229.18	229.29	229.25	
15	229.27	229.22	229.27	229.92	230.15	230.86	231.56	229.77	229.38	229.17	229.30	229.27	
16	229.28	229.21	229.36	229.79	230.44	230.74	230.67	229.90	229.35	229.20	229.31	229.33	
17	229.29	229.17	230.02	229.58	230.57	230.38	230.15	229.96	229.32	229.26	229.29	229.31	
18	229.28	229.16	230.27	229.48	230.48	230.31	229.94	229.93	229.32	229.27	229.33	229.31	
19	229.27	229.15	230.25	229.63	230.35	230.39	229.86	229.77	229.34	229.32	229.33	229.26	
20	229.25	229.15	230.26	229.65	230.12	230.26	229.84	229.89	229.33	229.34	229.25	229.21	
21	229.28	229.15	230.25	229.65	230.30	230.34	229.82	229.90	229.32	229.37	229.21	229.18	
22	229.29	229.15	230.27	229.66	230.50	230.23	229.78	230.05	229.32	229.36	229.19	229.18	
23	229.35	229.16	230.31	229.62	230.63	230.19	229.72	230.09	229.32	229.24	229.18	229.20	
24	229.31	229.15	230.27	229.56	230.99	230.49	229.70	230.17	229.35	229.20	229.19	229.22	
25	229.27	229.16	230.19	229.55	231.66	230.40	229.69	230.18	229.32	229.18	229.20	229.24	
26	229.25	229.17	229.87	229.53	232.42	230.63	229.71	230.06	229.29	229.19	229.19	229.25	
27	229.25	229.18	229.69	229.54	232.45	230.80	229.70	229.90	229.29	229.47	229.20	229.29	
28	229.25	229.18	229.57	229.58	232.07	230.55	229.68	229.89	229.29	229.70	229.25	229.40	
29	229.25	229.16	229.54	229.62	231.88	230.79	229.67	229.82	229.29	229.70		229.43	
30	229.24	229.16	229.47	229.54	231.65	231.56	229.66	229.60	229.28	229.70		229.28	
31		229.17		229.54	230.70		229.64		229.29	229.71		229.27	
Mean	229.28	229.21	229.64	229.53	230.40	230.72	230.37	229.95	229.43	229.33	229.45	229.26	
Max	229.35	229.38	230.31	229.92	232.45	232.17	232.33	230.34	229.73	229.71	229.80	229.43	232.45
Min	229.24	229.15	229.19	229.35	229.40	230.12	229.64	229.60	229.28	229.17	229.16	229.18	229.15

Annual Max Momentary Gage Height 232.60 M (MSL), at 11.00 Hours, on Aug 27, 1996
Zero Gage at Bottom Elevation 229.30 M (MSL), River Bed 228.52 M (MSL)
Left Bank Elevation 234.67 M (MSL)
Right Bank Elevation 235.00 M (MSL), Drainage Area 3478 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	1.65	1.40	6.63	8.48	83.44	137.00	13.48	13.82	3.71	1.80	2.55		
2	2.70	1.40	1.50	6.63	8.48	93.88	128.30	19.50	14.50	4.64	1.62	3.23		
3	2.55	3.23	1.65	5.86	5.35	146.00	64.10	16.57	15.18	4.18	1.76	3.47		
4	3.23	2.70	1.80	5.35	6.63	194.25	30.45	15.53	12.81	2.55	1.80	3.94		
5	3.23	2.55	1.50	6.37	16.57	144.00	23.45	22.22	10.80	2.70	1.80	4.18		
6	2.70	2.55	1.50	7.39	16.57	123.80	21.40	23.04	10.22	3.23	1.70	2.40		
7	2.70	2.55	3.71	6.37	14.84	93.88	19.88	29.10	9.64	3.00	1.59	1.95		
8	2.70	2.40	6.63	4.41	13.82	60.90	20.64	32.70	9.64	2.10	1.59	1.50		
9	2.70	1.95	6.37	4.18	15.18	40.00	26.40	41.50	9.06	2.10	1.59	1.30		
10	2.70	1.80	6.63	4.41	12.47	30.90	59.10	38.00	8.19	1.80	1.59	1.30		
11	2.55	1.80	6.88	5.61	10.51	33.15	141.00	31.80	7.39	1.80	1.55	1.40		
12	2.55	2.25	4.41	7.14	10.51	48.35	191.75	22.22	6.63	1.50	1.10	2.10		
13	2.55	4.88	2.70	8.48	13.82	35.00	215.05	26.85	6.63	1.40	1.95	2.10		
14	2.55	2.40	3.23	9.93	20.26	36.50	211.00	16.91	6.63	1.30	2.85	2.25		
15	2.55	1.80	2.55	22.22	32.25	72.14	127.40	16.57	4.88	1.20	3.00	2.55		
16	2.70	1.65	4.41	17.25	46.70	64.10	59.70	21.40	4.18	1.50	3.23	3.71		
17	2.85	1.20	2.83	10.22	53.85	43.50	32.25	23.86	3.47	2.40	2.85	3.23		
18	2.70	1.10	3.99	7.39	48.90	40.00	23.04	22.63	3.47	2.55	3.71	3.23		
19	2.55	1.00	3.90	11.81	42.00	44.00	19.88	16.57	3.94	3.47	3.71	2.40		
20	2.25	1.00	3.95	12.47	30.90	37.50	19.12	21.02	3.71	3.94	2.25	1.65		
21	2.70	1.00	3.90	12.47	39.50	41.50	18.36	21.40	3.47	4.64	1.65	1.30		
22	2.85	1.00	3.99	12.81	50.00	36.00	16.91	27.75	3.47	4.41	1.40	1.30		
23	4.18	1.10	4.18	11.47	57.30	34.05	14.84	29.55	3.47	2.10	1.30	1.50		
24	3.23	1.00	3.99	9.64	81.29	49.45	14.15	33.15	4.18	1.50	1.40	1.80		
25	2.55	1.10	3.62	9.35	137.00	44.50	13.82	33.60	3.47	1.30	1.50	2.10		
26	2.25	1.20	2.13	8.77	227.30	57.30	14.50	28.20	2.85	1.40	1.40	2.25		
27	2.25	1.30	1.41	9.06	231.50	68.00	14.15	21.40	2.85	0.73	1.50	2.85		
28	2.25	1.30	1.01	10.22	181.90	52.75	13.48	21.02	2.85	1.45	2.25	5.35		
29	2.25	1.10	0.92	11.47	159.80	67.35	13.14	18.36	2.85	1.45		6.11		
30	2.10	1.10	7.14	9.06	136.00	127.40	12.81	10.80	2.70	1.45		2.70		
31		1.20		9.06	61.50		12.14		2.85	1.49		2.55		
Total	80.32	54.26	103.83	283.50	1791.18	2043.59	1729.21	716.70	199.80	72.99	55.44	80.25	7211.07	CMSDAY
Mean	2.68	1.75	3.46	9.15	57.78	68.12	55.78	23.89	6.45	2.35	1.98	2.59	19.76	CMS
Max	4.18	4.88	7.14	22.22	231.50	194.25	215.05	41.50	15.18	4.64	3.71	6.11	231.50	CMS
Min	2.10	1.00	0.92	4.18	5.35	30.90	12.14	10.80	2.70	0.73	1.10	1.30	0.73	CMS
Runoff	6.940	4.688	8.971	24.494	154.758	176.566	149.404	61.923	17.263	6.306	4.790	6.934	623.036	MCM

Momentary Peak 252.50 CMS, at 232.60 M (MSL), at 11.00 Hours, on Aug 27, 1996

Runoff Yield 5.68 Liters/Second/Square KM, Momentary Peak Yield 72.599 Liters/Second/Square KM

WATER YEAR 1996

WANG RIVER BASIN

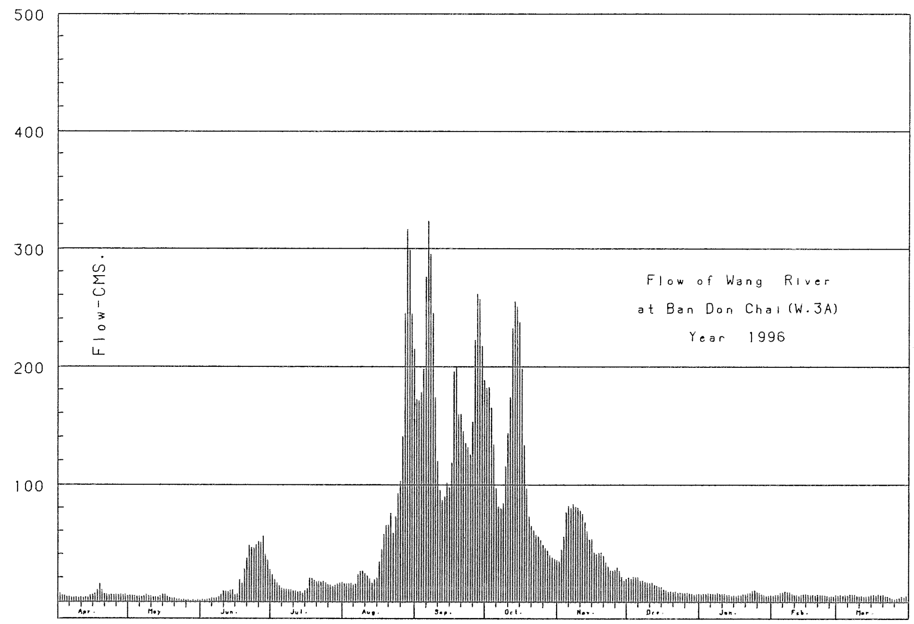
Wang River at Ban Lom Laeb, Lampang (W.3A)

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 good. Stage-discharge relation defined by 31 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.20	161.10	160.89	161.77	161.55	164.19	164.28	162.08	161.70	161.18	161.12	161.13	
2	161.13	161.11	160.91	161.66	161.54	164.17	164.29	162.33	161.68	161.18	161.13	161.13	
3	161.09	161.09	160.91	161.56	161.55	164.25	164.11	162.55	161.72	161.20	161.16	161.12	
4	161.06	161.06	160.95	161.50	161.55	164.44	163.74	162.92	161.72	161.21	161.23	161.14	
5	161.05	161.06	160.99	161.42	161.50	165.12	163.25	163.00	161.71	161.21	161.27	161.13	
6	161.02	161.07	160.99	161.41	161.54	165.46	162.99	162.98	161.63	161.19	161.30	161.16	
7	161.02	161.09	160.98	161.38	161.78	165.26	162.97	163.03	161.62	161.19	161.29	161.19	
8	161.02	161.14	161.07	161.39	161.85	164.88	163.04	163.00	161.60	161.22	161.26	161.16	
9	161.01	161.10	161.16	161.37	161.87	164.20	163.51	162.98	161.57	161.20	161.19	161.11	
10	161.01	161.07	161.33	161.34	161.80	163.56	163.86	162.95	161.57	161.20	161.15	161.10	
11	161.01	161.04	161.30	161.31	161.75	163.23	164.20	162.89	161.57	161.17	161.13	161.08	
12	161.02	161.02	161.31	161.30	161.67	163.08	164.77	162.78	161.52	161.15	161.11	161.07	
13	161.02	161.01	161.34	161.29	161.57	163.14	164.96	162.64	161.49	161.12	161.14	161.07	
14	161.11	161.07	161.35	161.23	161.64	163.31	164.92	162.51	161.47	161.11	161.19	161.10	
15	161.15	161.18	161.16	161.32	161.70	163.26	164.81	162.51	161.45	161.11	161.17	161.13	
16	161.19	161.16	161.17	161.42	162.06	163.55	164.45	162.27	161.39	161.10	161.15	161.14	
17	161.37	161.08	161.64	161.68	162.33	164.42	163.74	162.22	161.34	161.11	161.15	161.13	
18	161.54	161.00	161.56	161.69	162.59	164.46	163.24	162.27	161.30	161.13	161.14	161.15	
19	161.35	160.99	161.92	161.63	162.73	164.04	162.86	162.26	161.28	161.16	161.13	161.15	
20	161.19	160.97	162.14	161.60	162.74	164.05	162.72	162.20	161.29	161.18	161.15	161.14	
21	161.15	160.94	162.41	161.60	162.90	163.88	162.66	162.05	161.29	161.20	161.16	161.10	
22	161.14	160.92	162.36	161.59	162.62	163.76	162.58	161.97	161.26	161.25	161.14	161.06	
23	161.14	160.91	162.36	161.60	162.86	163.71	162.56	161.87	161.24	161.32	161.12	161.02	
24	161.14	160.89	162.41	161.58	163.18	163.64	162.49	161.88	161.25	161.36	161.09	160.95	
25	161.14	160.88	162.48	161.53	163.33	163.97	162.42	161.90	161.25	161.29	161.07	160.93	
26	161.14	160.87	162.45	161.50	163.83	164.68	162.35	161.94	161.23	161.23	161.07	160.94	
27	161.14	160.86	162.57	161.48	164.88	165.01	162.31	161.88	161.22	161.17	161.08	161.00	
28	161.14	160.86	162.22	161.50	165.41	164.97	162.20	161.71	161.19	161.13	161.13	161.06	
29	161.15	160.86	162.10	161.54	165.29	164.64	162.15	161.63	161.16	161.10		161.04	
30	161.11	160.88	161.89	161.56	164.87	164.35	162.13	161.66	161.17	161.09		161.08	
31		160.88		161.58	164.61		162.09		161.18	161.11		161.21	
Mean	161.13	161.01	161.61	161.49	162.62	164.16	163.31	162.36	161.42	161.18	161.16	161.09	
Max	161.54	161.18	162.57	161.77	165.41	165.46	164.96	163.03	161.72	161.36	161.30	161.21	165.46
Min	161.01	160.86	160.89	161.23	161.50	163.08	162.09	161.63	161.16	161.09	161.07	160.93	160.86

Annual Max Momentary Gage Height 165.54 M (MSL), at 8.00 Hours, on Sep 6, 1996
Zero Gage at Bottom Elevation 161.00 M (MSL), River Bed 159.64 M (MSL)
Left Bank Elevation 169.05 M (MSL)
Right Bank Elevation 167.24 M (MSL), Drainage Area 8985 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.40	5.60	2.24	23.48	16.15	173.10	182.00	35.20	21.10	7.04	5.96	6.14		
2	6.14	5.78	2.51	19.78	15.82	171.30	183.00	45.35	20.44	7.04	6.14	6.14		
3	5.43	5.43	2.51	16.48	16.15	179.00	165.90	56.00	21.78	7.40	6.68	5.96		
4	4.92	4.92	3.13	14.50	16.15	198.00	134.20	77.20	21.78	7.59	7.97	6.32		
5	4.75	4.92	3.75	12.02	14.50	276.70	97.50	82.00	21.44	7.59	8.73	6.14		
6	4.24	5.09	3.75	11.71	15.82	324.30	81.40	80.80	18.79	7.22	9.30	6.68		
7	4.24	5.43	3.59	10.98	23.82	295.60	80.20	83.80	18.46	7.22	9.11	7.22		
8	4.24	6.32	5.09	11.19	26.25	246.10	84.40	82.00	17.80	7.78	8.54	6.68		
9	4.07	5.60	6.68	10.77	26.95	174.00	116.25	80.80	16.81	7.40	7.22	5.78		
10	4.07	5.09	9.93	10.14	24.50	120.00	143.80	79.00	16.81	7.40	6.50	5.60		
11	4.07	4.58	9.30	9.51	22.80	96.10	174.00	75.40	16.81	6.86	6.14	5.26		
12	4.24	4.24	9.51	9.30	20.11	86.80	233.05	68.80	15.16	6.50	5.78	5.09		
13	4.24	4.07	10.14	9.11	16.81	90.40	256.00	60.70	14.19	5.96	6.32	5.09		
14	5.78	5.09	10.35	7.97	19.12	101.70	251.00	54.00	13.57	5.78	7.22	5.60		
15	6.50	7.04	6.68	9.72	21.10	98.20	237.70	54.00	12.95	5.78	6.86	6.14		
16	7.22	6.68	6.86	12.02	34.40	119.25	199.00	42.80	11.19	5.60	6.50	6.32		
17	10.77	5.26	19.12	20.44	45.35	196.00	134.20	40.80	10.14	5.78	6.50	6.14		
18	15.82	3.90	16.48	20.77	58.00	200.00	96.80	42.80	9.30	6.14	6.32	6.50		
19	10.35	3.75	28.80	18.79	65.80	159.60	73.60	42.40	8.92	6.68	6.14	6.50		
20	7.22	3.44	37.60	17.80	66.40	160.50	65.20	40.00	9.11	7.04	6.50	6.32		
21	6.50	2.97	49.00	17.80	76.00	145.40	61.80	34.00	9.11	7.40	6.68	5.60		
22	6.32	2.66	46.70	17.47	59.60	135.80	57.50	30.80	8.54	8.35	6.32	4.92		
23	6.32	2.51	46.70	17.80	73.60	131.80	56.50	26.95	8.16	9.72	5.96	4.24		
24	6.32	2.24	49.00	17.14	92.80	126.20	53.00	27.30	8.35	10.56	5.43	3.13		
25	6.32	2.12	52.50	15.49	103.10	153.30	49.50	28.00	8.35	9.11	5.09	2.81		
26	6.32	2.00	51.00	14.50	141.40	222.80	46.25	29.60	7.97	7.97	5.09	2.97		
27	6.32	1.89	57.00	13.88	246.10	262.30	44.45	27.30	7.78	6.86	5.26	3.90		
28	6.32	1.89	40.80	14.50	316.55	257.25	40.00	21.44	7.22	6.14	6.14	4.92		
29	6.50	1.89	36.00	15.82	299.65	218.40	38.00	18.79	6.68	5.60		4.58		
30	5.78	2.12	27.65	16.48	244.90	189.00	37.20	19.78	6.86	5.43		5.26		
31		2.12		17.14	215.10		35.60		7.04	5.78		7.59		
Total	188.73	126.64	654.37	454.50	2434.80	5308.90	3509.00	1487.81	402.61	218.72	186.40	171.54	15144.02	CMSDAY
Mean	6.29	4.09	21.81	14.66	78.54	176.96	113.19	49.59	12.99	7.06	6.66	5.53	41.49	CMS
Max	15.82	7.04	57.00	23.48	316.55	324.30	256.00	83.80	21.78	10.56	9.30	7.59	324.30	CMS
Min	4.07	1.89	2.24	7.97	14.50	86.80	35.60	18.79	6.68	5.43	5.09	2.81	1.89	CMS
Runoff	16.306	10.942	56.538	39.269	210.367	458.689	303.178	128.547	34.786	18.897	16.105	14.821	1308.443	MCM

Momentary Peak 336.70 CMS, at 165.54 M (MSL), at 8.00 Hours, on Sep 6, 1996

Runoff Yield 4.62 Liters/Second/Square KM, Momentary Peak Yield 37.474 Liters/Second/Square KM

WATER YEAR 1996

WANG RIVER BASIN

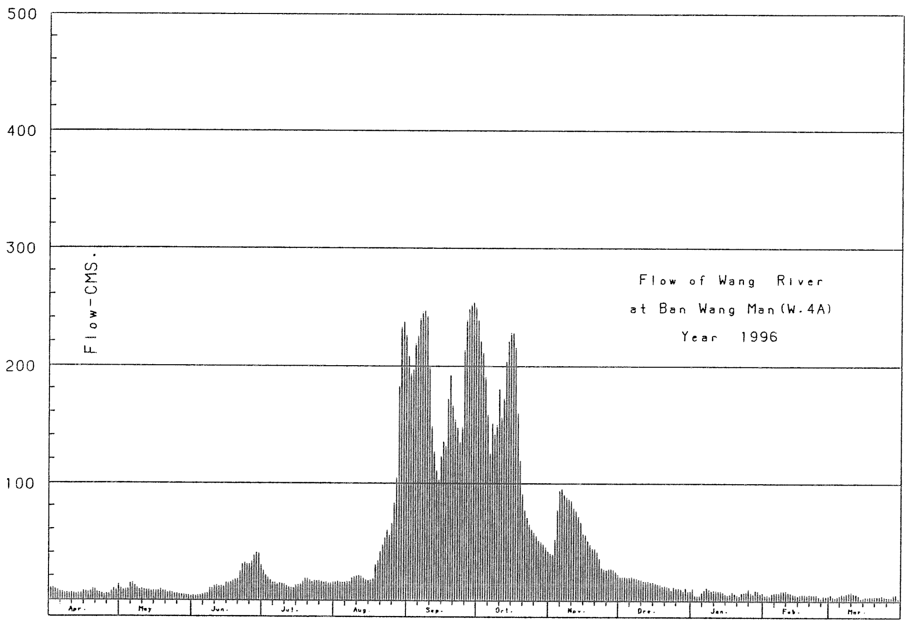
Wang River at Ban Wang Man, Tak (W.4A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-dischargerelation defined by 28 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.06	131.04	130.59	131.86	131.40	135.65	135.91	132.39	131.62	131.02	130.65	130.69	
2	131.06	130.96	130.60	131.70	131.41	135.50	135.76	132.38	131.60	130.64	130.67	130.52	
3	131.02	130.98	130.60	131.57	131.39	135.54	135.67	132.76	131.62	130.60	130.61	130.51	
4	130.94	131.02	130.65	131.48	131.36	135.74	135.47	133.46	131.61	130.63	130.75	130.56	
5	130.88	131.33	130.69	131.37	131.38	135.80	135.07	133.86	131.61	130.84	130.82	130.66	
6	130.84	131.33	130.72	131.33	131.40	135.92	134.52	133.89	131.61	130.95	130.80	130.71	
7	130.80	131.23	130.77	131.28	131.41	135.97	134.97	133.78	131.58	131.11	130.82	130.71	
8	130.78	131.07	131.05	131.31	131.55	135.98	134.82	133.71	131.54	130.98	130.90	130.74	
9	130.77	130.97	131.03	131.30	131.63	135.94	134.94	133.69	131.51	130.94	130.92	130.83	
10	130.77	131.00	131.20	131.26	131.63	135.56	135.36	133.64	131.47	130.94	130.91	130.85	
11	130.76	130.98	131.22	131.20	131.68	134.92	135.04	133.49	131.43	130.92	130.85	130.78	
12	130.73	130.96	131.17	131.14	131.63	134.54	135.26	133.44	131.43	130.91	130.78	130.74	
13	130.74	130.93	131.18	131.08	131.56	134.23	135.61	133.30	131.41	130.89	130.73	130.61	
14	130.77	130.90	131.16	131.10	131.46	134.06	135.76	133.18	131.38	130.85	130.66	130.44	
15	130.88	130.90	131.34	131.24	131.46	134.47	135.82	132.91	131.36	130.74	130.63	130.50	
16	130.87	130.88	131.36	131.24	131.46	134.71	135.82	132.87	131.35	130.63	130.67	130.53	
17	130.80	130.93	131.38	131.29	131.54	134.63	135.71	132.74	131.30	130.72	130.72	130.54	
18	130.89	130.98	131.42	131.40	132.05	135.26	135.10	132.63	131.24	130.85	130.69	130.55	
19	130.99	130.92	131.50	131.56	132.19	135.49	134.38	132.54	131.20	130.78	130.67	130.55	
20	131.00	130.88	131.50	131.53	132.44	135.18	133.79	132.52	131.19	130.66	130.70	130.57	
21	130.85	130.81	131.83	131.46	132.64	135.01	133.46	132.43	131.15	130.58	130.70	130.58	
22	130.78	130.85	132.08	131.41	132.82	134.91	133.29	132.26	131.13	130.81	130.69	130.61	
23	130.76	130.78	132.11	131.44	132.99	134.70	133.12	131.97	130.97	130.82	130.69	130.62	
24	130.65	130.75	132.09	131.44	132.87	134.92	133.03	131.91	131.13	130.87	130.57	130.58	
25	130.69	130.71	132.06	131.44	133.15	135.69	132.93	131.90	131.08	131.01	130.43	130.49	
26	130.71	130.68	132.14	131.43	133.59	135.91	132.85	131.92	131.06	130.80	130.57	130.51	
27	130.89	130.67	132.34	131.38	134.10	135.99	132.75	131.94	131.04	130.73	130.59	130.51	
28	131.00	130.65	132.40	131.37	135.39	136.02	132.70	131.88	130.89	130.97	130.60	130.70	
29	130.95	130.64	132.40	131.33	135.86	136.03	132.66	131.84	131.09	130.88		130.70	
30	131.24	130.60	132.06	131.32	135.90	136.00	132.57	131.70	130.87	130.77		130.45	
31		130.60		131.37	135.80		132.47		130.92	130.79		130.45	
Mean	130.86	130.90	131.42	131.38	132.49	135.34	134.41	132.76	131.30	130.83	130.71	130.61	
Max	131.24	131.33	132.40	131.86	135.90	136.03	135.91	133.89	131.62	131.11	130.92	130.85	136.03
Min	130.65	130.60	130.59	131.08	131.36	134.06	132.47	131.70	130.87	130.58	130.43	130.44	130.43

Annual Max Momentary Gage Height 136.03 M (MSL), at 24.00 Hours, on Sep 29, 1996
Zero Gage at Bottom Elevation 130.00 M (MSL), River Bed 129.72 M (MSL)
Left Bank Elevation 136.15 M (MSL)
Right Bank Elevation 136.73 M (MSL), Drainage Area 10507 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.40	10.10	3.87	25.50	16.00	208.75	239.20	40.20	20.40	9.80	4.62	5.13	
2	10.40	8.90	4.00	22.00	16.20	193.50	221.40	39.90	20.00	4.50	4.87	3.00	
3	9.80	9.20	4.00	19.40	15.83	197.30	211.05	52.10	20.40	4.00	4.13	2.87	
4	8.60	9.80	4.62	17.60	15.30	219.10	190.65	77.90	20.20	4.38	5.87	3.50	
5	7.70	14.78	5.13	15.48	15.65	226.00	158.40	94.05	20.20	7.10	6.80	4.75	
6	7.10	14.78	5.50	14.78	16.00	240.40	126.00	95.32	20.20	8.75	6.50	5.38	
7	6.50	13.02	6.13	13.90	16.20	246.40	151.63	90.70	19.60	11.15	6.80	5.38	
8	6.25	10.55	10.25	14.43	19.00	247.60	142.25	87.90	18.80	9.20	8.00	5.75	
9	6.13	9.05	9.95	14.25	20.60	242.80	149.75	87.10	18.20	8.60	8.30	6.95	
10	6.13	9.50	12.50	13.55	20.60	199.20	180.70	85.10	17.40	8.60	8.15	7.25	
11	6.00	9.20	12.85	12.50	21.60	148.50	156.30	79.10	16.60	8.30	7.25	6.25	
12	5.62	8.90	12.05	11.60	20.60	127.00	172.45	77.10	16.60	8.15	6.25	5.75	
13	5.75	8.45	12.20	10.70	19.20	111.50	204.15	71.75	16.20	7.85	5.62	4.13	
14	6.13	8.00	11.90	11.00	17.20	103.00	221.40	67.25	15.65	7.25	4.75	2.00	
15	7.70	8.00	14.95	13.20	17.20	123.50	228.40	57.35	15.30	5.75	4.38	2.75	
16	7.55	7.70	15.30	13.20	17.20	136.05	228.40	55.95	15.13	4.38	4.87	3.13	
17	6.50	8.45	15.65	14.07	18.80	131.65	215.65	51.40	14.25	5.50	5.50	3.25	
18	7.85	9.20	16.40	16.00	30.38	172.45	160.50	47.55	13.20	7.25	5.13	3.38	
19	9.35	8.30	18.00	19.20	34.23	192.55	119.00	44.70	12.50	6.25	4.87	3.38	
20	9.50	7.70	18.00	18.60	41.70	166.10	91.10	44.10	12.35	4.75	5.25	3.63	
21	7.25	6.65	24.75	17.20	47.90	154.20	77.90	41.40	11.75	3.75	5.25	3.75	
22	6.25	7.25	31.20	16.20	54.20	147.88	71.37	36.30	11.45	6.65	5.13	4.13	
23	6.00	6.25	32.03	16.80	60.15	135.50	65.00	28.25	9.05	6.80	5.13	4.25	
24	4.62	5.87	31.47	16.80	55.95	148.50	61.62	26.75	11.45	7.55	3.63	3.75	
25	5.13	5.38	30.65	16.80	66.12	213.35	58.05	26.50	10.70	9.65	1.87	2.63	
26	5.38	5.00	32.85	16.60	83.10	239.20	55.25	27.00	10.40	6.50	3.63	2.87	
27	7.85	4.87	38.70	15.65	105.00	248.80	51.75	27.50	10.10	5.62	3.87	2.87	
28	9.50	4.62	40.50	15.48	183.18	253.00	50.00	26.00	7.85	9.05	4.00	5.25	
29	8.75	4.50	40.50	14.78	233.20	254.50	48.60	25.00	10.85	7.70		5.25	
30	13.20	4.00	30.65	14.60	238.00	250.00	45.60	22.00	7.55	6.13		2.13	
31		4.00		15.48	226.00		42.60		8.30	6.37		2.13	
Total	224.89	251.97	546.55	487.35	1762.29	5678.28	4196.12	1633.22	452.63	217.28	150.42	126.62	15727.62 CMSDAY
Mean	7.50	8.13	18.22	15.72	56.85	189.28	135.36	54.44	14.60	7.01	5.37	4.08	43.09 CMS
Max	13.20	14.78	40.50	25.50	238.00	254.50	239.20	95.32	20.40	11.15	8.30	7.25	254.50 CMS
Min	4.62	4.00	3.87	10.70	15.30	103.00	42.60	22.00	7.55	3.75	1.87	2.00	1.87 CMS
Runoff	19.430	21.770	47.222	42.107	152.262	490.603	362.545	141.110	39.107	18.773	12.996	10.940	1358.866 MCM

Momentary Peak 254.50 CMS, at 136.03 M (MSL), at 24.00 Hours, on Sep 29, 1996

Runoff Yield 4.10 Liters/Second/Square KM, Momentary Peak Yield 24.222 Liters/Second/Square KM

WATER YEAR 1996

WANG RIVER BASIN

Wang River at Ban Hai, Lampang (W.16A)

Location — Lat. 18°-46'-45" N., Long. 99°-37'-52" E., on left bank at Ban Hai, Amphoe Chae Hom Lampang.

Drainage Area — 1,379 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 10.00 meters from the top staff gage.

Elevation — +6.177 m. (A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1995 to date.

Rating Operation

Period of Rating — 1995 to date.

Rated by Float — -

Rated by Current Meter — 1995 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

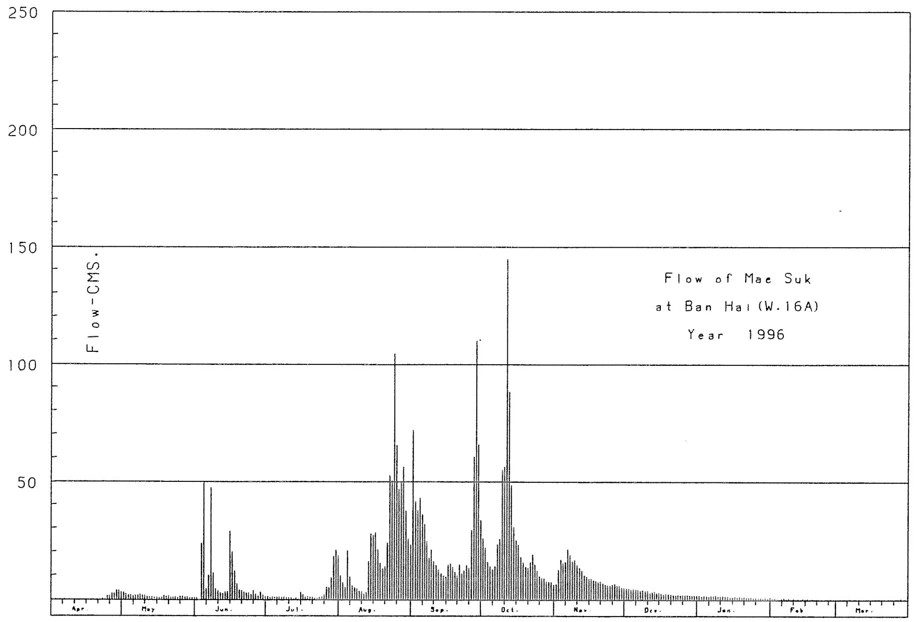
General Description — Records fair. Stage-discharge relation defined by 39 discharge measurements made in 1996.

Remarks — The D.E.D.P. pumping station is located 100 meters upstream from the observation point, which hasn 't any effect to the record because it isn 't often to operate.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.16	1.45	1.21	1.27	1.75	3.40	2.31	1.64	1.56	1.33	1.22	1.14	
2	1.15	1.39	1.20	1.26	1.65	2.80	2.07	1.82	1.54	1.32	1.20	1.14	
3	1.15	1.36	2.19	1.26	1.57	2.71	1.92	1.95	1.53	1.31	1.21	1.13	
4	1.15	1.34	2.98	1.26	2.04	2.83	1.86	1.90	1.53	1.32	1.20	1.14	
5	1.14	1.33	1.54	1.27	1.74	2.67	1.83	1.92	1.53	1.30	1.20	1.15	
6	1.14	1.32	1.76	1.26	1.60	2.55	1.86	2.06	1.51	1.31	1.21	1.14	
7	1.14	1.35	2.93	1.26	1.57	2.23	2.13	2.00	1.49	1.32	1.20	1.14	
8	1.14	1.37	1.78	1.25	1.53	1.97	2.29	1.93	1.50	1.32	1.19	1.14	
9	1.14	1.34	1.53	1.25	1.49	2.05	3.09	1.94	1.49	1.30	1.18	1.14	
10	1.13	1.33	1.48	1.22	1.46	1.92	3.11	1.88	1.49	1.29	1.18	1.14	
11	1.13	1.29	1.44	1.21	1.40	1.88	4.41	1.85	1.44	1.31	1.18	1.13	
12	1.13	1.28	1.40	1.21	1.46	1.82	3.67	1.81	1.46	1.30	1.17	1.13	
13	1.13	1.26	1.47	1.21	1.93	1.78	2.95	1.76	1.46	1.29	1.17	1.13	
14	1.13	1.25	1.46	1.22	2.40	1.75	2.52	1.74	1.43	1.27	1.18	1.12	
15	1.13	1.25	2.45	1.45	2.38	1.74	2.27	1.72	1.43	1.26	1.16	1.14	
16	1.14	1.22	2.03	1.36	2.42	1.88	2.10	1.71	1.41	1.27	1.16	1.13	
17	1.15	1.26	1.81	1.27	2.06	1.90	1.98	1.70	1.39	1.27	1.15	1.12	
18	1.14	1.32	1.63	1.26	1.90	1.85	1.91	1.68	1.39	1.27	1.15	1.12	
19	1.13	1.30	1.51	1.27	1.84	1.80	1.86	1.67	1.40	1.26	1.15	1.11	
20	1.13	1.30	1.49	1.24	1.86	1.75	1.84	1.67	1.37	1.25	1.15	1.11	
21	1.14	1.26	1.45	1.23	2.18	1.89	1.91	1.65	1.36	1.25	1.15	1.11	
22	1.18	1.26	1.43	1.23	3.04	1.78	2.01	1.63	1.35	1.25	1.15	1.11	
23	1.18	1.25	1.42	1.24	2.99	1.81	1.89	1.61	1.35	1.24	1.14	1.11	
24	1.33	1.23	1.38	1.28	3.91	1.88	1.81	1.61	1.35	1.24	1.14	1.11	
25	1.30	1.31	1.49	1.36	3.29	1.84	1.75	1.62	1.35	1.23	1.14	1.11	
26	1.41	1.28	1.38	1.57	2.91	2.46	1.72	1.63	1.35	1.22	1.15	1.11	
27	1.42	1.26	1.32	1.57	2.98	3.20	1.72	1.61	1.35	1.22	1.16	1.11	
28	1.51	1.25	1.46	1.73	3.11	3.98	1.67	1.60	1.33	1.21	1.16	1.20	
29	1.49	1.24	1.34	1.99	2.71	3.29	1.67	1.57	1.34	1.22		1.17	
30	1.50	1.22	1.29	2.05	2.29	2.60	1.66	1.55	1.33	1.21		1.14	
31		1.25		1.99	2.12		1.62		1.34	1.24		1.17	
Mean	1.21	1.29	1.64	1.37	2.18	2.27	2.17	1.75	1.42	1.27	1.17	1.13	
Max	1.51	1.45	2.98	2.05	3.91	3.98	4.41	2.06	1.56	1.33	1.22	1.20	4.41
Min	1.13	1.22	1.20	1.21	1.40	1.74	1.62	1.55	1.33	1.21	1.14	1.11	1.11

Annual Max Momentary Gage Height 4.55 M (A.D), at 18.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.81 M (A.D)
Left Bank Elevation 6.03 M (A.D)
Right Bank Elevation 6.44 M (A.D), Drainage Area 1379 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	3.25	0.73	1.28	10.25	72.00	26.20	6.94	5.14	1.84	0.82	0.29	
2	0.34	2.41	0.64	1.19	7.20	42.00	22.08	12.70	4.76	1.74	0.64	0.29	
3	0.34	2.12	24.21	1.19	5.33	37.95	16.20	17.25	4.57	1.64	0.73	0.23	
4	0.34	1.93	50.10	1.19	20.76	43.35	14.10	15.50	4.57	1.74	0.64	0.29	
5	0.29	1.84	4.76	1.28	9.90	36.45	13.05	16.20	4.57	1.55	0.64	0.34	
6	0.29	1.74	10.60	1.19	5.90	32.25	14.10	21.64	4.19	1.64	0.73	0.29	
7	0.29	2.03	47.85	1.19	5.33	24.81	23.67	19.00	3.85	1.74	0.64	0.29	
8	0.29	2.22	11.30	1.09	4.57	17.95	25.83	16.55	4.00	1.74	0.58	0.29	
9	0.29	1.93	4.57	1.09	3.85	21.20	55.50	16.90	3.85	1.55	0.52	0.29	
10	0.23	1.84	3.70	0.82	3.40	16.20	56.50	14.80	3.85	1.46	0.52	0.29	
11	0.23	1.46	3.10	0.73	2.50	14.80	144.90	13.75	3.10	1.64	0.52	0.23	
12	0.23	1.37	2.50	0.73	3.40	12.70	88.55	12.35	3.40	1.55	0.46	0.23	
13	0.23	1.19	3.55	0.73	16.55	11.30	48.75	10.60	3.40	1.46	0.46	0.23	
14	0.23	1.09	3.40	0.82	28.00	10.25	31.20	9.90	2.95	1.28	0.52	0.17	
15	0.23	1.09	29.25	3.25	27.60	9.90	25.49	9.20	2.95	1.19	0.40	0.29	
16	0.29	0.82	20.32	2.12	28.50	14.80	23.40	8.85	2.65	1.28	0.40	0.23	
17	0.34	1.19	12.35	1.28	21.64	15.50	18.30	8.50	2.41	1.28	0.34	0.17	
18	0.29	1.74	6.68	1.19	15.50	13.75	15.85	7.98	2.41	1.28	0.34	0.17	
19	0.23	1.55	4.19	1.28	13.40	12.00	14.10	7.72	2.50	1.19	0.34	0.11	
20	0.23	1.55	3.85	1.00	14.10	10.25	13.40	7.72	2.22	1.09	0.34	0.11	
21	0.29	1.19	3.25	0.91	24.12	15.15	15.85	7.20	2.12	1.09	0.34	0.11	
22	0.52	1.19	2.95	0.91	53.00	11.30	19.44	6.68	2.03	1.09	0.34	0.11	
23	0.52	1.09	2.80	1.00	50.55	12.35	15.15	6.16	2.03	1.00	0.29	0.11	
24	1.84	0.91	2.31	1.37	104.75	14.80	12.35	6.16	2.03	1.00	0.29	0.11	
25	1.55	1.64	3.85	2.12	65.95	13.40	10.25	6.42	2.03	0.91	0.29	0.11	
26	2.65	1.37	2.31	5.33	46.95	29.50	9.20	6.68	2.03	0.82	0.34	0.11	
27	2.80	1.19	1.74	5.33	50.10	61.00	9.20	6.16	2.03	0.82	0.40	0.11	
28	4.19	1.09	3.40	9.55	56.50	110.00	7.72	5.90	1.84	0.73	0.40	0.64	
29	3.85	1.00	1.93	18.65	37.95	65.95	7.72	5.33	1.93	0.82		0.46	
30	4.00	0.82	1.46	21.20	25.83	34.00	7.46	4.95	1.84	0.73		0.29	
31		1.09		18.65	23.58		6.42		1.93	1.00		0.46	
Total	27.84	46.94	273.65	109.66	786.96	836.86	811.93	315.69	93.18	39.89	13.27	7.45	3363.32 CMSDAY
Mean	0.93	1.51	9.12	3.54	25.39	27.90	26.19	10.52	3.01	1.29	0.47	0.24	9.21 CMS
Max	4.19	3.25	50.10	21.20	104.75	110.00	144.90	21.64	5.14	1.84	0.82	0.64	144.90 CMS
Min	0.23	0.82	0.64	0.73	2.50	9.90	6.42	4.95	1.84	0.73	0.29	0.11	0.11 CMS
Runoff	2.405	4.056	23.643	9.475	67.993	72.305	70.151	27.276	8.051	3.446	1.147	0.644	290.591 MCM

Momentary Peak 157.50 CMS, at 4.55 M (A.D), at 18.00 Hours, on Oct 11, 1996

Runoff Yield 6.68 Liters/Second/Square KM, Momentary Peak Yield 114.213 Liters/Second/Square KM

WATER YEAR 1996

WANG RIVER BASIN

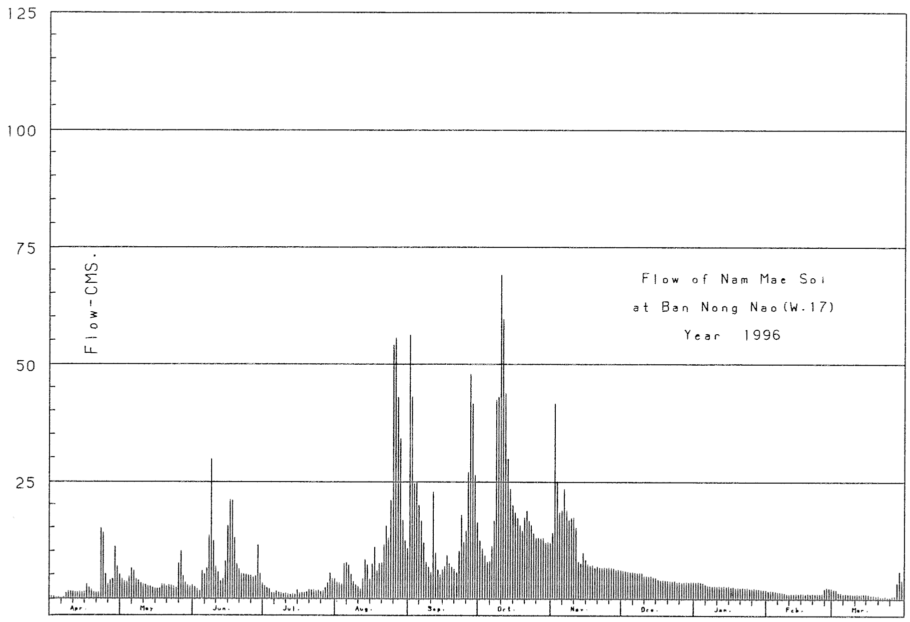
Nam Mae Soi at Ban Nong Nao, Lampang (W.17)

Location	Lat. 18°-43′-16″ N., Long 99°-34′-12″ E., on right bank at the bridge of Lampang-Wang Nua Road, Ban Nong Nao, 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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 59 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.61	291.85	291.76	291.77	291.82	292.80	292.09	292.12	292.05	291.94	291.84	291.86	
2	291.60	291.82	291.73	291.75	291.81	292.61	292.05	292.59	292.05	291.94	291.84	291.85	
3	291.59	291.82	291.71	291.73	291.80	292.31	292.02	292.32	292.04	291.94	291.84	291.82	
4	291.57	291.87	291.92	291.68	291.97	292.32	291.98	292.20	292.04	291.93	291.83	291.81	
5	291.56	291.94	291.90	291.67	291.98	292.23	291.99	292.21	292.04	291.92	291.83	291.80	
6	291.58	291.92	291.94	291.70	291.96	292.17	292.06	292.29	292.03	291.91	291.82	291.80	
7	291.81	291.85	292.11	291.68	291.90	292.08	292.17	292.21	292.03	291.90	291.82	291.80	
8	291.83	291.83	292.40	291.67	291.82	291.98	292.60	292.17	292.03	291.90	291.81	291.79	
9	291.83	291.81	292.09	291.66	291.79	291.95	292.61	292.18	292.03	291.90	291.80	291.79	
10	291.82	291.79	291.95	291.66	291.76	291.91	292.96	292.18	292.00	291.90	291.80	291.79	
11	291.82	291.79	291.91	291.65	291.73	292.28	292.84	292.14	292.00	291.90	291.80	291.79	
12	291.82	291.77	291.83	291.65	291.85	292.03	292.62	292.13	292.00	291.90	291.80	291.79	
13	291.82	291.76	291.85	291.65	292.00	291.93	292.40	292.12	292.00	291.90	291.80	291.79	
14	291.82	291.75	291.99	291.65	291.96	291.89	292.29	292.21	291.99	291.90	291.80	291.80	
15	291.82	291.73	292.15	291.72	291.85	291.93	292.23	292.15	291.98	291.90	291.80	291.79	
16	291.79	291.73	292.25	291.66	291.97	291.95	292.20	292.11	291.97	291.89	291.80	291.78	
17	291.75	291.74	292.25	291.68	292.06	292.02	292.18	292.10	291.96	291.89	291.80	291.77	
18	291.72	291.79	292.10	291.67	291.92	291.97	292.15	292.10	291.96	291.88	291.80	291.76	
19	291.69	291.79	291.97	291.69	291.97	291.95	292.13	292.08	291.96	291.88	291.80	291.75	
20	291.68	291.76	291.93	291.72	291.98	291.93	292.18	292.09	291.95	291.88	291.80	291.75	
21	291.67	291.78	291.90	291.72	292.07	291.91	292.21	292.08	291.95	291.88	291.80	291.73	
22	292.14	291.78	291.90	291.72	292.15	292.04	292.17	292.08	291.95	291.88	291.80	291.73	
23	292.12	291.76	291.89	291.71	292.10	292.19	292.15	292.08	291.95	291.88	291.80	291.73	
24	291.90	291.75	291.89	291.71	292.25	292.08	292.12	292.08	291.94	291.87	291.80	291.72	
25	291.79	291.97	291.88	291.70	292.77	292.13	292.10	292.08	291.94	291.87	291.87	291.72	
26	291.83	292.04	291.86	291.70	292.79	292.35	292.10	292.08	291.94	291.87	291.88	291.73	
27	291.85	291.88	291.88	291.75	292.61	292.68	292.10	292.07	291.94	291.87	291.88	291.75	
28	292.06	291.81	292.07	291.81	292.47	292.59	292.10	292.06	291.94	291.86	291.87	291.94	
29	291.95	291.78	291.90	291.91	292.17	292.34	292.08	292.06	291.94	291.86		292.05	
30	291.89	291.76	291.81	291.85	292.09	292.16	292.08	292.06	291.94	291.85		291.96	
31		291.78		291.85	292.05		292.08		291.94	291.85		291.91	
Mean	291.79	291.81	291.96	291.71	292.05	292.16	292.23	292.15	291.98	291.89	291.82	291.80	
Max	292.14	292.04	292.40	291.91	292.79	292.80	292.96	292.59	292.05	291.94	291.88	292.05	292.96
Min	291.56	291.73	291.71	291.65	291.73	291.89	291.98	292.06	291.94	291.85	291.80	291.72	291.56

Annual Max Momentary Gage Height 293.18 M (MSL), at 15.00 Hours, on Oct 10, 1996
Zero Gage at Bottom Elevation 292.00 M (MSL), River Bed 291.00 M (MSL)
Left Bank Elevation 296.42 M (MSL)
Right Bank Elevation 296.42 M (MSL), Drainage Area 619 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	4.35	2.66	2.82	3.72	56.50	12.55	14.08	6.05	3.64	1.84	2.16	
2	0.50	3.72	2.18	2.50	3.51	43.20	10.75	41.85	6.05	3.64	1.84	2.00	
3	0.45	3.72	1.86	2.18	3.30	24.60	9.40	25.20	5.82	3.64	1.84	1.52	
4	0.35	4.77	6.02	1.46	7.57	25.20	7.88	18.40	5.82	3.43	1.68	1.36	
5	0.30	6.64	5.40	1.34	7.88	20.08	8.19	18.96	5.82	3.22	1.68	1.20	
6	0.40	6.02	6.64	1.70	7.26	16.78	11.20	23.44	5.59	3.01	1.52	1.20	
7	1.36	4.35	13.54	1.46	5.40	12.10	16.78	18.96	5.59	2.80	1.52	1.20	
8	1.68	3.93	30.00	1.34	3.72	7.88	42.50	16.78	5.59	2.80	1.36	1.12	
9	1.68	3.51	12.55	1.22	3.14	6.95	43.20	17.32	5.59	2.80	1.20	1.12	
10	1.52	3.14	6.95	1.22	2.66	5.71	69.30	17.32	4.90	2.80	1.20	1.12	
11	1.52	3.14	5.71	1.10	2.18	22.88	59.70	15.16	4.90	2.80	1.20	1.12	
12	1.52	2.82	3.93	1.10	4.35	9.85	43.90	7.95	4.90	2.80	1.20	1.12	
13	1.52	2.66	4.35	1.10	8.50	6.33	30.00	7.70	4.90	2.80	1.20	1.12	
14	1.52	2.50	8.19	1.10	7.26	5.19	23.44	10.00	4.69	2.80	1.20	1.20	
15	1.52	2.18	15.70	2.02	4.35	6.33	20.08	8.45	4.48	2.80	1.20	1.12	
16	3.14	2.18	21.20	1.22	7.57	6.95	18.40	7.45	4.27	2.64	1.20	1.03	
17	2.50	2.34	21.20	1.46	11.20	9.40	17.32	7.20	4.06	2.64	1.20	0.94	
18	2.02	3.14	13.00	1.34	6.02	7.57	15.70	7.20	4.06	2.48	1.20	0.86	
19	1.58	3.14	7.57	1.58	7.57	6.95	14.62	6.74	4.06	2.48	1.20	0.78	
20	1.46	2.66	6.33	2.02	7.88	6.33	17.32	6.97	3.85	2.48	1.20	0.78	
21	1.34	2.98	5.40	2.02	11.65	5.71	18.96	6.74	3.85	2.48	1.20	0.61	
22	15.16	2.98	5.40	2.02	15.70	10.30	16.78	6.74	3.85	2.48	1.20	0.61	
23	14.08	2.66	5.19	1.86	13.00	17.86	15.70	6.74	3.85	2.48	1.20	0.61	
24	5.40	2.50	5.19	1.86	21.20	12.10	14.08	6.74	3.64	2.32	1.20	0.52	
25	3.14	7.57	4.98	1.70	54.40	14.62	13.00	6.74	3.64	2.32	2.32	0.52	
26	3.93	10.30	4.56	1.70	55.80	27.00	13.00	6.74	3.64	2.32	2.48	0.61	
27	4.35	4.98	4.98	2.50	43.20	48.10	13.00	6.51	3.64	2.32	2.48	0.78	
28	11.20	3.51	11.65	3.51	34.20	41.85	13.00	6.28	3.64	2.16	2.32	3.64	
29	6.95	2.98	5.40	5.71	16.78	26.40	12.10	6.28	3.64	2.16		6.05	
30	5.19	2.66	3.51	4.35	12.55	16.24	12.10	6.28	3.64	2.00		4.06	
31		2.98		4.35	10.75		12.10		3.64	2.00		3.01	
Total	97.90	117.01	251.24	62.86	404.27	526.96	646.05	362.92	141.66	83.54	42.08	45.09	2781.58 CMSDAY
Mean	3.26	3.77	8.37	2.03	13.04	17.57	20.84	12.10	4.57	2.69	1.50	1.45	7.62 CMS
Max	15.16	10.30	30.00	5.71	55.80	56.50	69.30	41.85	6.05	3.64	2.48	6.05	69.30 CMS
Min	0.30	2.18	1.86	1.10	2.18	5.19	7.88	6.28	3.64	2.00	1.20	0.52	0.30 CMS
Runoff	8.459	10.110	21.707	5.431	34.929	45.529	55.819	31.356	12.239	7.218	3.636	3.896	240.329 MCM

Momentary Peak 88.20 CMS, at 293.18 M (MSL), at 15.00 Hours, on Oct 10, 1996

Runoff Yield 12.31 Liters/Second/Square KM, Momentary Peak Yield 142.488 Liters/Second/Square KM

WATER YEAR 1996

WANG RIVER BASIN

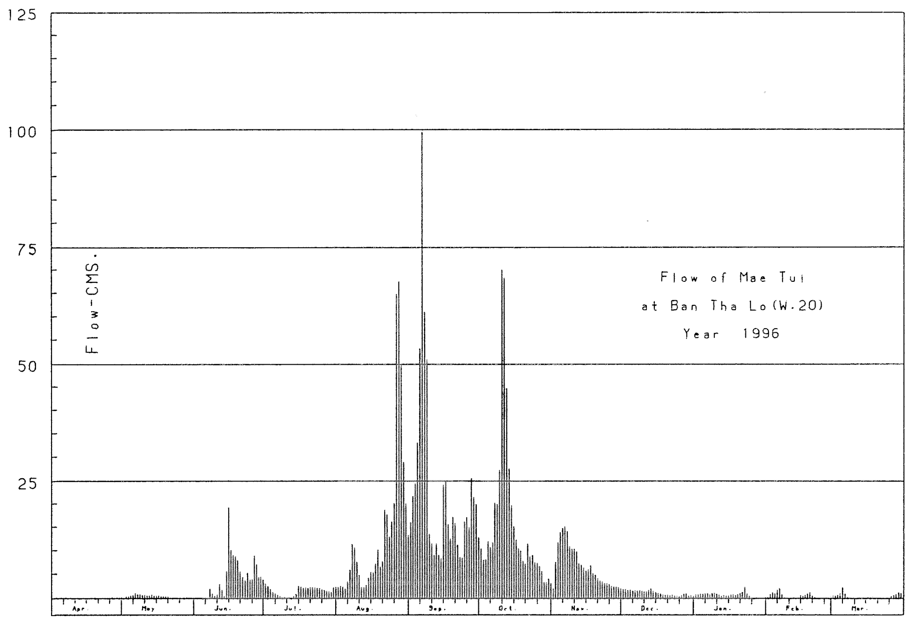
Nam Mae Tui at Ban Tha Lo, Lampang (W.20)

Location	LAT. 18°-18′-35″ N., Long. 99°-27′-29″ N., on left bank at the bridge of Lampang-Hang Chat Highway, Amphoe Muang, Lampang.
Drainage Area	1,740 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 approach of the bridge.
Elevation	+7.710 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	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 200 meters downstream from the gage site.Stage-discharge relation defined by 59 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	0.70	0.60	1.14	1.06	2.36	1.89	1.02	1.00	0.81	0.73	0.76	
2	0.67	0.73	0.61	1.09	1.08	2.73	1.66	1.62	0.99	0.83	0.82	0.78	
3	0.69	0.75	0.64	0.99	1.05	2.88	1.68	2.02	0.97	0.84	0.90	0.80	
4	0.67	0.78	0.62	0.91	1.01	3.28	2.03	2.19	0.97	0.85	0.85	0.85	
5	0.67	0.80	0.60	0.86	1.19	3.91	1.93	2.27	0.95	0.85	0.97	1.06	
6	0.67	0.85	0.60	0.79	1.45	4.60	2.02	2.29	0.95	0.86	1.03	0.86	
7	0.67	0.83	1.01	0.74	1.99	4.08	2.64	2.22	0.95	0.81	0.84	0.74	
8	0.68	0.81	0.84	0.72	1.91	3.85	2.63	1.94	0.95	0.87	0.69	0.68	
9	0.64	0.80	0.74	0.70	1.63	2.17	3.02	1.90	0.95	0.87	0.69	0.65	
10	0.63	0.79	0.80	0.70	1.33	1.99	4.24	1.89	0.91	0.85	0.67	0.65	
11	0.63	0.78	1.13	0.70	1.04	1.77	4.21	1.85	0.93	0.80	0.67	0.65	
12	0.62	0.78	0.98	0.69	1.05	1.99	3.69	1.59	0.96	0.77	0.68	0.68	
13	0.62	0.80	0.75	0.74	1.11	1.77	3.04	1.57	1.02	0.78	0.68	0.68	
14	0.60	0.78	1.43	0.83	1.28	1.69	2.60	1.50	0.94	0.78	0.72	0.68	
15	0.60	0.76	2.58	1.10	1.40	2.86	2.30	1.44	0.91	0.76	0.79	0.65	
16	0.60	0.76	1.86	1.05	1.40	2.90	2.06	1.46	0.87	0.82	0.77	0.68	
17	0.60	0.74	1.77	1.03	1.58	2.33	1.91	1.56	0.85	0.82	0.80	0.72	
18	0.60	0.74	1.73	1.03	1.87	2.08	1.85	1.37	0.81	0.80	0.86	0.75	
19	0.60	0.74	1.66	1.03	1.53	2.44	1.65	1.35	0.81	0.82	0.89	0.65	
20	0.60	0.73	1.41	1.04	1.64	2.34	1.58	1.26	0.80	0.87	0.79	0.65	
21	0.60	0.70	1.28	1.05	2.54	1.98	2.00	1.22	0.80	0.89	0.73	0.64	
22	0.61	0.68	1.22	1.03	2.48	1.73	1.73	1.19	0.80	1.07	0.67	0.61	
23	0.64	0.68	1.39	1.03	2.12	1.70	1.77	1.16	0.78	0.84	0.66	0.61	
24	0.64	0.64	1.23	1.01	2.36	2.37	1.61	1.15	0.76	0.77	0.66	0.60	
25	0.63	0.57	1.23	0.98	2.64	2.43	1.61	1.14	0.75	0.64	0.66	0.61	
26	0.68	0.54	1.75	0.97	4.15	2.27	1.54	1.08	0.78	0.68	0.66	0.74	
27	0.69	0.62	1.58	0.94	4.20	2.94	1.42	1.07	0.85	0.67	0.68	0.80	
28	0.70	0.71	1.29	0.91	3.82	2.72	1.18	1.06	0.85	0.68	0.76	0.82	
29	0.70	0.71	1.29	0.91	3.11	2.63	1.17	1.05	0.78	0.68		0.90	
30	0.71	0.64	1.24	1.03	2.63	2.11	1.26	1.01	0.78	0.70		0.86	
31		0.60		1.05	2.14		1.15		0.76	0.77		0.79	
Mean	0.64	0.73	1.20	0.93	1.93	2.56	2.10	1.51	0.88	0.80	0.76	0.73	
Max	0.71	0.85	2.58	1.14	4.20	4.60	4.24	2.29	1.02	1.07	1.03	1.06	4.60
Min	0.60	0.54	0.60	0.69	1.01	1.69	1.15	1.01	0.75	0.64	0.66	0.60	0.54

Annual Max Momentary Gage Height 4.78 M (A.D), at 20.00 Hours, on Oct 10, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.02 M (A.D)
Left Bank Elevation 7.93 M (A.D)
Right Bank Elevation 7.93 M (A.D), Drainage Area 1065 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.30	0.10	3.18	2.52	16.34	10.60	2.24	2.10	0.86	0.45	0.60	
2	0.24	0.45	0.12	2.73	2.66	21.81	8.21	7.80	2.03	0.98	0.92	0.70	
3	0.28	0.55	0.18	2.03	2.45	24.60	8.42	12.04	1.89	1.04	1.40	0.80	
4	0.24	0.70	0.14	1.47	2.17	33.20	12.16	14.08	1.89	1.10	1.10	1.10	
5	0.24	0.80	0.10	1.16	3.66	53.44	11.03	15.11	1.75	1.10	1.89	2.52	
6	0.24	1.10	0.10	0.75	6.13	99.60	12.04	15.37	1.75	1.16	2.31	1.16	
7	0.24	0.98	2.17	0.50	11.69	61.24	20.40	14.46	1.75	0.86	1.04	0.50	
8	0.26	0.86	1.04	0.40	10.81	51.00	20.25	11.14	1.75	1.22	0.28	0.26	
9	0.18	0.80	0.50	0.30	7.91	13.84	27.40	10.70	1.75	1.22	0.28	0.20	
10	0.16	0.75	0.80	0.30	4.99	11.69	70.28	10.60	1.47	1.10	0.24	0.20	
11	0.16	0.70	3.08	0.30	2.38	9.34	68.42	10.18	1.61	0.80	0.24	0.20	
12	0.14	0.70	1.96	0.28	2.45	11.69	44.97	7.50	1.82	0.65	0.26	0.26	
13	0.14	0.80	0.55	0.50	2.90	9.34	27.80	7.30	2.24	0.70	0.26	0.26	
14	0.10	0.70	5.93	0.98	4.51	8.52	19.80	6.60	1.68	0.70	0.40	0.26	
15	0.10	0.60	19.50	2.80	5.65	24.20	15.50	6.03	1.47	0.60	0.75	0.20	
16	0.10	0.60	10.28	2.45	5.65	25.00	12.52	6.22	1.22	0.92	0.65	0.26	
17	0.10	0.50	9.34	2.31	7.40	15.92	10.81	7.20	1.10	0.92	0.80	0.40	
18	0.10	0.50	8.93	2.31	10.39	12.76	10.18	5.36	0.86	0.80	1.16	0.55	
19	0.10	0.50	8.21	2.31	6.90	17.46	8.11	5.18	0.86	0.92	1.34	0.20	
20	0.10	0.45	5.74	2.38	8.01	16.06	7.40	4.32	0.80	1.22	0.75	0.20	
21	0.10	0.30	4.51	2.45	18.90	11.58	11.80	3.94	0.80	1.34	0.45	0.18	
22	0.12	0.26	3.94	2.31	18.02	8.93	8.93	3.66	0.80	2.59	0.24	0.12	
23	0.18	0.26	5.55	2.31	13.24	8.62	9.34	3.37	0.70	1.04	0.22	0.12	
24	0.18	0.18	4.03	2.17	16.34	16.48	7.70	3.27	0.60	0.65	0.22	0.10	
25	0.16	0.07	4.03	1.96	20.40	17.32	7.70	3.18	0.55	0.18	0.22	0.12	
26	0.26	0.04	9.14	1.89	65.00	15.11	7.00	2.66	0.70	0.26	0.22	0.50	
27	0.28	0.14	7.40	1.68	67.80	25.80	5.84	2.59	1.10	0.24	0.26	0.80	
28	0.30	0.35	4.60	1.47	49.80	21.64	3.56	2.52	1.10	0.26	0.60	0.92	
29	0.30	0.35	4.60	1.47	29.22	20.25	3.46	2.45	0.70	0.26		1.40	
30	0.35	0.18	4.13	2.31	20.25	13.12	4.32	2.17	0.70	0.30		1.16	
31		0.10		2.45	13.48		3.27		0.60	0.65		0.75	
Total	5.71	15.57	130.70	51.91	443.68	695.90	499.22	209.24	40.14	26.64	18.95	17.00	2154.66 CMSDAY
Mean	0.19	0.50	4.36	1.67	14.31	23.20	16.10	6.97	1.29	0.86	0.68	0.55	5.90 CMS
Max	0.35	1.10	19.50	3.18	67.80	99.60	70.28	15.37	2.24	2.59	2.31	2.52	99.60 CMS
Min	0.10	0.04	0.10	0.28	2.17	8.52	3.27	2.17	0.55	0.18	0.22	0.10	0.04 CMS
Runoff	0.493	1.345	11.292	4.485	38.334	60.126	43.133	18.078	3.468	2.302	1.637	1.469	186.163 MCM

Momentary Peak 117.92 CMS, at 4.78 M (A.D), at 20.00 Hours, on Oct 10, 1996
Runoff Yield 5.54 Liters/Second/Square KM, Momentary Peak Yield 110.723 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

Yom River at Ban Nam Kkong, 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 Ban Nam Khong, 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 by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 94 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

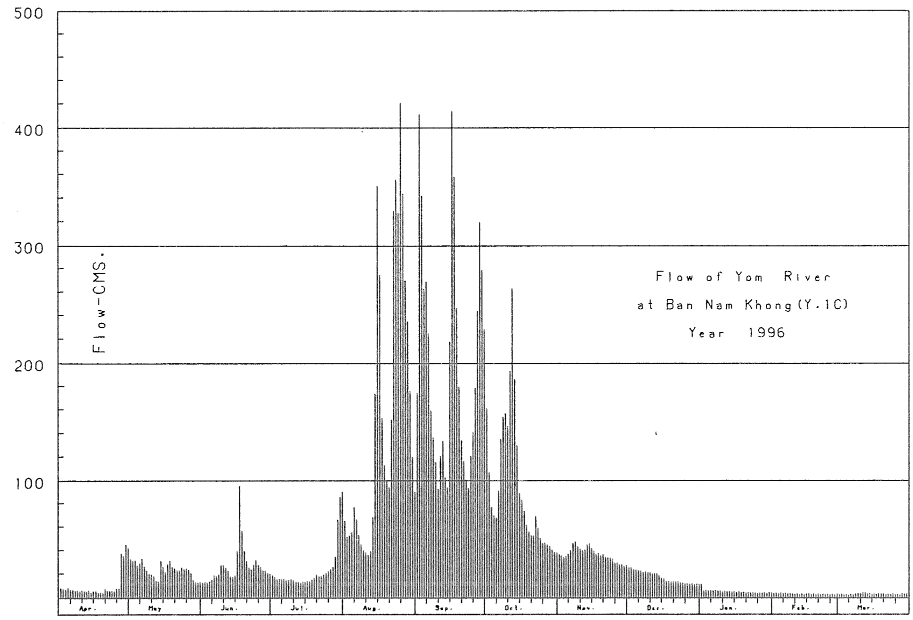
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.31	144.76	144.28	144.45	145.36	146.86	146.71	144.84	144.61	144.24	144.14	144.09	
2	144.27	144.71	144.28	144.40	145.12	149.21	146.08	144.81	144.60	144.24	144.14	144.09	
3	144.27	144.74	144.28	144.36	145.15	148.64	145.54	144.79	144.57	144.24	144.14	144.09	
4	144.30	144.63	144.29	144.36	145.19	147.88	145.42	144.80	144.55	144.24	144.14	144.08	
5	144.27	144.68	144.35	144.36	145.53	147.95	145.40	144.85	144.55	144.23	144.14	144.07	
6	144.24	144.76	144.43	144.35	145.38	147.47	145.81	144.90	144.53	144.24	144.13	144.08	
7	144.24	144.63	144.43	144.33	145.16	146.69	146.41	145.03	144.51	144.23	144.13	144.08	
8	144.23	144.54	144.45	144.33	145.00	146.42	146.62	145.05	144.51	144.23	144.12	144.10	
9	144.23	144.48	144.65	144.36	144.91	146.19	146.66	144.98	144.51	144.22	144.13	144.14	
10	144.23	144.45	144.64	144.32	144.86	145.86	146.53	144.93	144.49	144.21	144.12	144.14	
11	144.23	144.43	144.61	144.30	144.82	146.24	147.09	144.91	144.48	144.21	144.10	144.15	
12	144.22	144.32	144.53	144.28	144.90	146.39	147.89	144.91	144.47	144.21	144.10	144.15	
13	144.23	144.29	144.42	144.28	145.40	146.04	147.01	145.01	144.49	144.20	144.10	144.13	
14	144.18	144.73	144.40	144.29	146.86	145.87	146.35	145.02	144.43	144.20	144.10	144.11	
15	144.21	144.61	144.44	144.30	148.71	147.40	145.78	144.95	144.39	144.20	144.10	144.10	
16	144.21	144.50	144.89	144.30	148.00	149.23	145.64	144.89	144.36	144.19	144.11	144.10	
17	144.18	144.67	145.92	144.31	146.61	148.77	145.49	144.84	144.31	144.19	144.10	144.10	
18	144.15	144.72	145.21	144.33	146.16	147.71	145.30	144.85	144.30	144.18	144.10	144.11	
19	144.16	144.62	144.90	144.39	145.99	146.93	145.20	144.82	144.30	144.17	144.10	144.13	
20	144.29	144.58	144.71	144.45	145.89	146.40	145.15	144.83	144.29	144.17	144.10	144.10	
21	144.22	144.55	144.60	144.43	146.60	146.19	145.14	144.79	144.30	144.16	144.10	144.09	
22	144.23	144.55	144.57	144.43	148.53	146.02	145.42	144.77	144.29	144.16	144.09	144.09	
23	144.22	144.60	144.66	144.45	148.75	145.86	145.26	144.78	144.28	144.16	144.09	144.11	
24	144.22	144.58	144.73	144.49	148.52	146.25	145.11	144.75	144.26	144.16	144.09	144.11	
25	144.28	144.58	144.66	144.52	149.28	146.47	145.03	144.69	144.25	144.15	144.09	144.09	
26	144.29	144.55	144.61	144.56	148.65	146.91	145.03	144.68	144.24	144.15	144.08	144.07	
27	144.86	144.49	144.55	144.62	147.96	147.69	145.01	144.66	144.24	144.16	144.08	144.07	
28	144.80	144.34	144.53	144.80	147.59	148.45	144.97	144.65	144.24	144.15	144.09	144.12	
29	145.01	144.27	144.49	145.37	146.88	148.04	144.92	144.63	144.24	144.15		144.12	
30	144.94	144.28	144.47	145.71	146.24	147.51	144.87	144.64	144.23	144.15		144.10	
31		144.28		145.80	145.79		144.86		144.23	144.15		144.10	
Mean	144.32	144.55	144.60	144.52	146.44	147.12	145.73	144.84	144.39	144.19	144.11	144.10	
Max	145.01	144.76	145.92	145.80	149.28	149.23	147.89	145.05	144.61	144.24	144.14	144.15	149.28
Min	144.15	144.27	144.28	144.28	144.82	145.86	144.86	144.63	144.23	144.15	144.08	144.07	144.07

Annual Max Momentary Gage Height 149.54 M (MSL), at 19.00 Hours, on Sep 2, 1996

Zero Gage at Bottom Elevation 143.50 M (MSL), River Bed 142.13 M (MSL)

Left Bank Elevation 152.70 M (MSL)

Right Bank Elevation 152.90 M (MSL), Drainage Area 7624 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.90	33.80	13.60	20.00	66.40	174.80	162.13	37.70	26.49	12.20	4.30	3.35	
2	7.60	31.36	13.60	18.00	52.10	412.30	107.00	36.24	26.00	6.70	4.30	3.35	
3	7.60	32.83	13.60	16.52	53.75	342.80	78.10	35.26	24.80	6.70	4.30	3.35	
4	8.50	27.46	13.95	16.52	55.95	263.00	70.30	35.75	24.00	6.70	4.30	3.20	
5	7.60	29.90	16.15	16.52	77.45	270.00	69.00	38.19	24.00	6.40	4.30	3.05	
6	6.70	33.80	19.20	16.15	67.70	225.30	91.45	40.62	23.20	6.70	4.10	3.20	
7	6.70	27.46	19.20	15.41	54.30	160.37	135.88	47.15	22.40	6.40	4.10	3.20	
8	6.40	23.60	20.00	15.41	45.50	136.75	154.25	48.25	22.40	6.40	3.90	3.50	
9	6.40	21.20	28.44	16.52	41.11	116.63	157.75	44.52	22.40	6.10	4.10	4.30	
10	6.40	20.00	27.95	15.04	38.67	93.70	146.37	42.09	21.60	5.80	3.90	4.30	
11	6.40	19.20	26.49	14.30	36.73	121.00	193.20	41.11	21.20	5.80	3.50	4.50	
12	6.10	15.04	23.20	13.60	40.62	134.12	264.00	41.11	20.80	5.80	3.50	4.50	
13	6.40	13.95	18.80	13.60	69.00	103.50	186.80	46.05	21.60	5.50	3.50	4.10	
14	5.10	32.34	18.00	13.95	174.80	94.15	130.63	46.60	19.20	5.50	3.50	3.70	
15	5.80	26.49	19.60	14.30	351.20	219.00	90.10	43.06	17.63	5.50	3.50	3.50	
16	5.80	22.00	40.14	14.30	275.00	414.90	83.80	40.14	16.52	5.30	3.70	3.50	
17	5.10	29.41	96.40	14.67	153.37	358.40	74.85	37.70	14.67	5.30	3.50	3.50	
18	4.50	31.85	57.10	15.41	114.00	246.90	62.50	38.19	14.30	5.10	3.50	3.70	
19	4.70	26.97	40.62	17.63	99.55	180.40	56.50	36.73	14.30	4.90	3.50	4.10	
20	8.20	25.20	31.36	20.00	95.05	135.00	53.75	37.21	13.95	4.90	3.50	3.50	
21	6.10	24.00	26.00	19.20	152.50	116.63	53.20	35.26	14.30	4.70	3.50	3.35	
22	6.40	24.00	24.80	19.20	329.60	101.75	70.30	34.29	13.95	4.70	3.35	3.35	
23	6.10	26.00	28.92	20.00	356.00	93.70	60.10	34.77	13.60	4.70	3.35	3.70	
24	6.10	25.20	32.34	21.60	328.40	121.87	51.55	33.31	12.90	4.70	3.35	3.70	
25	7.90	25.20	28.92	22.80	421.40	141.12	47.15	30.39	12.55	4.50	3.35	3.35	
26	8.20	24.00	26.49	24.40	344.00	178.80	47.15	29.90	12.20	4.50	3.20	3.05	
27	38.67	21.60	24.00	26.97	271.00	245.10	46.05	28.92	12.20	4.70	3.20	3.05	
28	35.75	15.78	23.20	35.75	236.10	320.50	44.04	28.44	12.20	4.50	3.35	3.90	
29	46.05	13.25	21.60	67.05	176.40	279.00	41.60	27.46	12.20	4.50		3.90	
30	42.58	13.60	20.80	86.95	121.00	228.90	39.16	27.95	11.85	4.50		3.50	
31		13.60		91.00	90.55		38.67		11.85	4.50		3.50	
Total	334.75	750.09	814.47	752.77	4789.20	6030.39	2907.33	1124.36	551.26	174.20	103.45	111.75	18444.02 CMSDAY
Mean	11.16	24.20	27.15	24.28	154.49	201.01	93.78	37.48	17.78	5.62	3.69	3.60	50.53 CMS
Max	46.05	33.80	96.40	91.00	421.40	414.90	264.00	48.25	26.49	12.20	4.30	4.50	421.40 CMS
Min	4.50	13.25	13.60	13.60	36.73	93.70	38.67	27.46	11.85	4.50	3.20	3.05	3.05 CMS
Runoff	28.922	64.808	70.370	65.039	413.787	521.026	251.193	97.145	47.629	15.051	8.938	9.655	1593.563 MCM

Momentary Peak 455.20 CMS, at 149.54 M (MSL), at 19.00 Hours, on Sep 2, 1996

Runoff Yield 6.63 Liters/Second/Square KM, Momentary Peak Yield 59.706 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

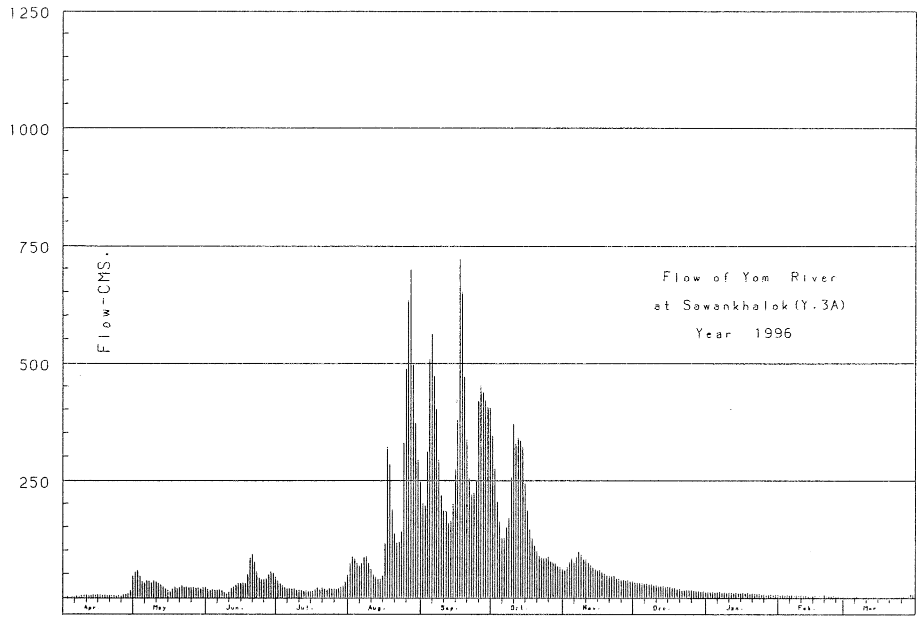
Yom River at Sawankhalok, Sukhothai (Y.3A)

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	Water-stage recorder.
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	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 26 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.06	52.45	51.63	52.06	52.81	54.68	56.39	52.54	52.00	51.46	51.24	51.08	
2	51.06	52.54	51.60	51.94	53.04	54.64	55.57	52.64	51.97	51.46	51.24	51.08	
3	51.06	52.30	51.62	51.84	53.00	56.02	54.74	52.85	51.97	51.46	51.24	51.06	
4	51.07	52.02	51.61	51.76	52.79	57.75	54.17	52.97	51.95	51.46	51.24	51.06	
5	51.07	51.96	51.61	51.69	52.71	58.08	53.68	52.84	51.93	51.46	51.23	51.06	
6	51.11	52.08	51.60	51.66	52.79	57.52	53.66	53.05	51.91	51.46	51.21	51.06	
7	51.16	52.03	51.57	51.68	53.04	56.93	54.02	53.24	51.89	51.43	51.21	51.05	
8	51.20	51.98	51.39	51.66	53.05	55.79	54.27	53.11	51.87	51.41	51.21	51.06	
9	51.24	52.06	51.36	51.60	52.81	54.91	55.37	52.96	51.84	51.40	51.21	51.09	
10	51.24	52.02	51.44	51.57	52.56	54.47	56.64	52.94	51.83	51.40	51.21	51.09	
11	51.24	51.93	51.71	51.56	52.37	54.49	56.19	52.84	51.81	51.40	51.21	51.10	
12	51.24	51.88	51.75	51.54	52.23	54.11	56.33	52.72	51.80	51.40	51.19	51.10	
13	51.25	51.76	51.88	51.55	52.16	54.20	56.28	52.65	51.79	51.40	51.17	51.09	
14	51.25	51.68	51.94	51.52	52.13	54.66	56.13	52.57	51.77	51.40	51.16	51.04	
15	51.25	51.57	51.95	51.53	52.31	55.57	55.19	52.53	51.75	51.38	51.16	51.02	
16	51.25	51.48	51.95	51.50	53.51	56.71	54.48	52.53	51.75	51.38	51.14	51.04	
17	51.24	51.64	51.95	51.65	56.12	58.87	53.96	52.46	51.73	51.38	51.13	51.09	
18	51.23	51.78	52.38	51.70	55.70	58.55	53.66	52.39	51.69	51.37	51.13	51.09	
19	51.23	51.66	53.00	51.63	54.51	57.51	53.44	52.33	51.66	51.35	51.13	51.09	
20	51.22	51.73	53.15	51.71	53.81	56.29	53.24	52.29	51.64	51.34	51.23	51.09	
21	51.21	51.85	52.87	51.65	53.51	55.33	53.07	52.26	51.60	51.34	51.17	51.08	
22	51.18	51.76	52.47	51.63	53.56	54.93	53.02	52.31	51.59	51.33	51.17	51.06	
23	51.17	51.74	52.21	51.66	53.89	54.96	52.98	52.18	51.59	51.31	51.17	51.07	
24	51.18	51.74	52.10	51.67	56.23	55.29	53.01	52.14	51.59	51.28	51.13	51.08	
25	51.19	51.71	52.10	51.64	57.63	57.10	53.04	52.12	51.57	51.27	51.12	51.08	
26	51.26	51.73	52.19	51.66	58.46	57.36	52.89	52.09	51.54	51.27	51.10	51.08	
27	51.31	51.71	52.37	51.69	58.78	57.26	52.84	52.08	51.53	51.27	51.08	51.08	
28	51.33	51.70	52.46	51.74	57.70	57.10	52.78	52.07	51.50	51.26	51.08	51.12	
29	51.58	51.68	52.43	51.83	56.66	56.98	52.70	52.04	51.50	51.26		51.33	
30	52.27	51.73	52.22	52.00	55.79	56.95	52.64	52.01	51.49	51.26		51.24	
31		51.78		52.32	55.24		52.57		51.46	51.25		51.31	
Mean	51.25	51.86	52.02	51.70	54.22	56.17	54.16	52.53	51.73	51.36	51.18	51.10	
Max	52.27	52.54	53.15	52.32	58.78	58.87	56.64	53.24	52.00	51.46	51.24	51.33	58.87
Min	51.06	51.48	51.36	51.50	52.13	54.11	52.57	52.01	51.46	51.25	51.08	51.02	51.02

Annual Max Momentary Gage Height 59.12 M (MSL), at 15.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 51.00 M (MSL), River Bed 49.81 M (MSL)
Left Bank Elevation 61.22 M (MSL)
Right Bank Elevation 61.04 M (MSL), Drainage Area 13583 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.9	54.7	18.2	36.7	74.6	201.4	347.0	59.7	34.0	12.8	6.2	3.2	
2	2.9	59.7	17.0	31.3	87.4	198.2	275.4	65.2	32.7	12.8	6.2	3.2	
3	2.9	47.5	17.8	26.8	85.0	313.7	206.2	76.7	32.7	12.8	6.2	2.9	
4	3.0	34.9	17.4	23.4	73.5	508.5	162.7	83.4	31.8	12.8	6.2	2.9	
5	3.0	32.2	17.4	20.6	69.0	563.6	128.2	76.2	30.9	12.8	5.9	2.9	
6	3.7	37.6	17.0	19.4	73.5	474.8	126.9	88.0	30.0	12.8	5.3	2.9	
7	4.4	35.3	16.1	20.2	87.4	402.3	151.5	99.6	29.0	11.9	5.3	2.7	
8	5.0	33.1	10.7	19.4	88.0	294.2	170.3	91.6	28.1	11.3	5.3	2.9	
9	6.2	36.7	9.8	17.0	74.6	219.8	258.4	82.8	26.8	11.0	5.3	3.3	
10	6.2	34.9	12.2	16.1	60.8	185.3	372.0	81.7	26.4	11.0	5.3	3.3	
11	6.2	30.9	21.4	15.8	50.6	186.8	328.1	76.2	25.5	11.0	5.3	3.5	
12	6.2	28.6	23.0	15.2	44.3	158.3	341.4	69.6	25.0	11.0	4.8	3.5	
13	6.5	23.4	28.6	15.5	41.2	165.0	336.6	65.8	24.6	11.0	4.5	3.3	
14	6.5	20.2	31.3	14.6	39.9	199.8	323.1	61.3	23.8	11.0	4.4	2.6	
15	6.5	16.1	31.8	14.9	48.0	275.4	243.1	59.1	23.0	10.4	4.4	2.3	
16	6.5	13.4	31.8	14.0	117.1	379.0	186.0	59.1	23.0	10.4	4.1	2.6	
17	6.2	18.6	31.8	19.0	322.2	722.8	147.2	55.3	22.2	10.4	4.0	3.3	
18	5.9	24.2	51.1	21.0	286.5	652.0	126.9	51.5	20.6	10.1	4.0	3.3	
19	5.9	19.4	85.0	18.2	188.2	473.4	112.6	48.9	19.4	9.5	4.0	3.3	
20	5.6	22.2	94.0	21.4	136.7	337.5	99.6	47.0	18.6	9.2	5.9	3.3	
21	5.3	27.2	77.8	19.0	117.1	255.1	89.2	45.7	17.0	9.2	4.5	3.2	
22	4.7	23.4	55.8	18.2	120.4	221.4	86.2	48.0	16.7	8.9	4.5	2.9	
23	4.5	22.6	43.4	19.4	142.3	223.8	83.9	42.1	16.7	8.3	4.5	3.0	
24	4.7	22.6	38.5	19.8	331.8	251.7	85.6	40.3	16.7	7.4	4.0	3.2	
25	4.8	21.4	38.5	18.6	490.5	421.0	87.4	39.4	16.1	7.1	3.8	3.2	
26	6.8	22.2	42.5	19.4	634.0	452.8	78.9	38.0	15.2	7.1	3.5	3.2	
27	8.3	21.4	50.6	20.6	701.6	439.8	76.2	37.6	14.9	7.1	3.2	3.2	
28	8.9	21.0	55.3	22.6	501.0	421.0	72.9	37.1	14.0	6.8	3.2	3.8	
29	16.4	20.2	53.6	26.4	374.0	407.8	68.5	35.8	14.0	6.8		8.9	
30	46.1	22.2	43.9	34.0	294.2	404.5	65.2	34.4	13.7	6.8		6.2	
31		24.2		48.4	247.4		61.3		12.8	6.5		8.3	
Total	212.7	872.0	1083.3	666.9	6002.8	10410.7	5298.5	1797.1	695.9	308.0	133.8	110.3	27592.0 CMSDAY
Mean	7.1	28.1	36.1	21.5	193.6	347.0	170.9	59.9	22.4	9.9	4.8	3.6	75.6 CMS
Max	46.1	59.7	94.0	48.4	701.6	722.8	372.0	99.6	34.0	12.8	6.2	8.9	722.8 CMS
Min	2.9	13.4	9.8	14.0	39.9	158.3	61.3	34.4	12.8	6.5	3.2	2.3	2.3 CMS
Runoff	18.38	75.34	93.60	57.62	518.64	899.48	457.79	155.27	60.13	26.61	11.56	9.53	2383.95 MCM

Momentary Peak 785.20 CMS, at 59.12 M (MSL), at 15.00 Hours, on Sep 17, 1996
Runoff Yield 5.57 Liters/Second/Square KM, Momentary Peak Yield 57.808 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

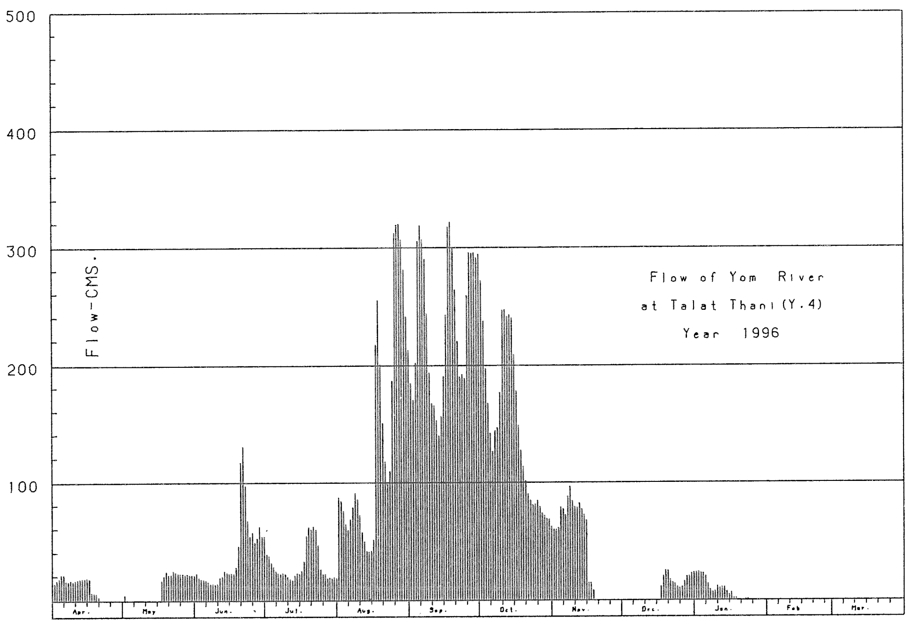
Yom River at Talat Thani, Sukhothai (Y.4)

Location	Lat. 17°-00′-18″ N., Long. 99°-49′-31″ E., on left bank near the Saving's Bank, Amphoe Muang, Sukhothai.
Drainage Area	17,731 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+44.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the footpath of the governor's house.
Elevation	+49.142 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1950 to date.
Rating Operation	
Period of Rating	1954-1956, 1967-1970, 1990 to date.
Rated by Float	-
Rated by Current Meter	1950-1960, 1962 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the concrete weir about 10 kilometers downstream from the gage site. Stage-discharge relation defined by 6 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.11	46.91	45.46	46.27	47.51	48.90	49.76	46.93	46.32	47.27	46.31	45.16	
2	47.15	46.72	45.25	46.19	47.46	48.73	49.45	46.91	46.27	47.27	46.22	44.97	
3	47.19	46.80	45.12	45.96	47.29	49.10	49.05	46.97	46.22	47.26	46.17	44.70	
4	47.24	46.59	45.14	45.78	47.04	50.03	48.70	47.34	46.17	47.25	46.04	44.75	
5	47.24	46.09	45.09	45.60	46.92	50.14	48.38	47.32	46.12	47.22	46.00	44.76	
6	47.14	45.90	44.97	45.46	47.13	50.04	48.15	47.22	46.07	47.10	45.95	44.67	
7	47.14	46.14	44.89	45.45	47.35	49.91	48.40	47.53	46.02	47.00	46.02	44.59	
8	47.15	45.97	44.85	45.48	47.59	49.51	48.44	47.68	45.98	46.96	46.08	44.57	
9	47.14	45.89	44.85	45.44	47.49	49.01	48.81	47.46	45.94	46.97	46.14	44.55	
10	47.15	46.07	44.88	45.25	47.21	48.70	49.54	47.35	45.90	47.05	46.17	44.54	
11	47.16	45.99	45.22	45.14	46.87	48.67	49.54	47.34	45.86	47.03	46.00	44.64	
12	47.18	45.82	45.32	45.09	46.63	48.51	49.49	47.42	45.87	47.04	46.03	44.62	
13	47.18	45.72	45.60	45.37	46.37	48.35	49.50	47.32	45.96	47.04	45.84	44.58	
14	47.19	45.55	45.54	45.46	46.33	48.56	49.48	47.22	46.12	46.97	45.78	44.59	
15	47.19	45.40	45.47	45.46	46.38	48.97	49.17	47.12	46.20	46.91	45.88	44.62	
16	47.18	45.23	45.46	45.60	46.67	49.50	48.83	47.11	46.59	46.94	45.86	44.86	
17	46.95	45.09	45.46	46.02	49.26	50.13	48.46	47.11	47.05	46.85	45.83	44.83	
18	46.94	45.30	45.76	46.78	49.61	50.16	48.17	46.99	47.22	46.84	45.80	44.87	
19	46.93	45.59	46.52	46.98	49.08	49.99	47.95	46.79	47.29	46.80	45.80	44.69	
20	46.87	45.37	48.01	46.93	48.49	49.69	47.77	46.73	47.29	46.79	45.69	44.67	
21	46.81	45.42	48.22	46.99	48.02	49.29	47.57	46.64	47.16	46.80	45.65	44.65	
22	46.66	45.62	47.70	46.93	47.72	48.97	47.47	46.58	47.12	46.83	45.69	44.59	
23	46.01	45.51	47.11	46.53	47.89	48.99	47.39	46.54	47.09	46.82	45.69	44.53	
24	45.72	45.48	46.75	45.67	48.93	48.95	47.39	46.52	47.05	46.74	45.67	44.47	
25	45.38	45.44	46.86	45.45	50.09	49.65	47.46	46.57	47.02	46.65	45.57	44.49	
26	45.25	45.44	46.61	45.43	50.14	49.95	47.36	46.52	47.05	46.62	45.41	44.54	
27	45.50	45.40	46.72	45.20	50.15	49.95	47.25	46.48	47.14	46.51	45.14	44.58	
28	45.41	45.41	46.99	45.23	50.04	49.95	47.20	46.47	47.21	46.43	45.08	44.61	
29	45.32	45.39	46.76	45.20	49.84	49.92	47.15	46.41	47.22	46.43		44.68	
30	45.36	45.36	46.75	45.25	49.49	49.94	47.13	46.37	47.25	46.38		44.83	
31		45.38		45.22	49.21		46.99		47.26	46.35		44.92	
Mean	46.66	45.74	45.98	45.77	48.07	49.41	48.30	46.97	46.61	46.87	45.84	44.68	
Max	47.24	46.91	48.22	46.99	50.15	50.16	49.76	47.68	47.29	47.27	46.31	45.16	50.16
Min	45.25	45.09	44.85	45.09	46.33	48.35	46.99	46.37	45.86	46.35	45.08	44.47	44.47

Annual Max Momentary Gage Height 50.19 M (MSL), at 18.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 44.00 M (MSL), River Bed 42.99 M (MSL)
Left Bank Elevation 50.46 M (MSL)
Right Bank Elevation 50.26 M (MSL), Drainage Area 17731 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.78	4.95	22.90	39.75	87.50	184.50	272.40	60.55	0.00	24.05	0.00	0.00		
2	16.88	0.00	19.75	37.75	85.00	170.40	237.50	59.85	0.00	24.05	0.00	0.00		
3	18.97	0.00	17.80	32.20	76.50	202.50	197.75	61.95	0.00	23.40	0.00	0.00		
4	22.10	0.00	18.10	28.60	64.80	305.75	168.00	79.00	0.00	22.75	0.00	0.00		
5	22.10	0.00	17.35	25.00	60.20	319.50	142.60	78.00	0.00	20.80	0.00	0.00		
6	16.35	0.00	15.55	22.90	68.85	307.00	126.75	73.00	0.00	14.25	0.00	0.00		
7	16.35	0.00	14.35	22.75	79.50	290.75	144.00	88.50	0.00	9.00	0.00	0.00		
8	16.88	0.00	13.75	23.20	91.50	244.10	147.20	96.80	0.00	7.20	0.00	0.00		
9	16.35	0.00	13.75	22.60	86.50	193.95	176.85	85.00	0.00	7.65	0.00	0.00		
10	16.88	0.00	14.20	19.75	72.50	168.00	247.40	79.50	0.00	11.62	0.00	0.00		
11	17.40	0.00	19.30	18.10	58.45	165.60	247.40	79.00	0.00	10.57	0.00	0.00		
12	18.45	0.00	20.80	17.35	50.05	152.80	241.90	83.00	0.00	11.10	0.00	0.00		
13	18.45	0.00	25.00	21.55	42.25	140.50	243.00	78.00	0.00	11.10	0.00	0.00		
14	18.97	0.00	24.10	22.90	41.25	156.80	240.80	73.00	0.00	7.65	0.00	0.00		
15	18.97	0.00	23.05	22.90	42.50	190.45	209.15	68.40	0.00	4.95	0.00	0.00		
16	18.45	0.00	22.90	25.00	51.45	243.00	178.55	14.78	0.00	6.30	0.00	0.00		
17	6.75	17.35	22.90	33.50	218.00	318.25	148.80	14.78	11.62	2.25	0.00	0.00		
18	6.30	20.50	28.20	55.30	255.15	322.00	128.05	8.55	20.80	1.80	0.00	0.00		
19	5.85	24.85	46.60	62.30	200.60	300.75	113.75	0.00	25.35	0.00	0.00	0.00		
20	3.15	21.55	117.65	60.55	151.20	264.35	102.20	0.00	25.35	0.00	0.00	0.00		
21	0.45	22.30	131.40	62.65	118.30	221.00	90.50	0.00	17.40	0.00	0.00	0.00		
22	0.00	25.40	98.00	60.55	99.20	190.45	85.50	0.00	15.30	1.35	0.00	0.00		
23	0.00	23.65	67.95	46.90	109.85	192.15	81.50	0.00	13.72	0.90	0.00	0.00		
24	0.00	23.20	54.25	26.40	187.05	188.75	81.50	0.00	11.62	0.00	0.00	0.00		
25	0.00	22.60	58.10	22.75	313.25	259.75	85.00	0.00	10.05	0.00	0.00	0.00		
26	0.00	22.60	49.35	22.45	319.50	295.75	80.00	0.00	11.62	0.00	0.00	0.00		
27	0.00	22.00	53.20	19.00	320.75	295.75	74.50	0.00	16.35	0.00	0.00	0.00		
28	0.00	22.15	62.65	19.45	307.00	295.75	72.00	0.00	20.15	0.00	0.00	0.00		
29	0.00	21.85	54.60	19.00	282.00	292.00	69.75	0.00	20.80	0.00		0.00		
30	0.00	21.40	54.25	19.75	241.90	294.50	68.85	0.00	22.75	0.00		0.00		
31		21.70		19.30	213.00		62.65		23.40	0.00		0.00		
Total	310.83	338.05	1201.75	952.15	4395.55	7166.80	4565.80	1181.66	266.28	222.74	0.00	0.00	20601.61	CMSDAY
Mean	10.36	10.90	40.06	30.71	141.79	238.89	147.28	39.39	8.59	7.19	0.00	0.00	56.44	CMS
Max	22.10	25.40	131.40	62.65	320.75	322.00	272.40	96.80	25.35	24.05	0.00	0.00	322.00	CMS
Min	0.00	0.00	13.75	17.35	41.25	140.50	62.65	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	26.856	29.208	103.831	82.266	379.776	619.212	394.485	102.095	23.007	19.245	0.000	0.000	1779.979	MCM

Momentary Peak 325.75 CMS, at 50.19 M (MSL), at 18.00 Hours, on Sep 17, 1996
Runoff Yield 3.18 Liters/Second/Square KM, Momentary Peak Yield 18.372 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

Yom River at Pho Thale, Phichit (Y.5)

Location — Lat. 16°-05′-35″ N., Long. 100°-15′-48″ E., on left bank in front of Amphoe Pho Thale Office, Amphoe Pho Thale, Phichit.

Drainage Area — 22,344 sq.km.

Type of Gage — Water- stage recorder.

Zero Gage at Bottom — +22.05 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 30 meters from Amphoe Pho Thale Office.

Elevation — +31.050 m.(M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1951 - 1956, 1967 - 1969, 1973 to date.

Rating Operation

Period of Rating — 1967, 1991 to date.

Rated by Float — -

Rated by Current Meter — 1967 - 1969, 1991 to date.

Stability of Channel Regimes — Fairly stable because of backwater effect.

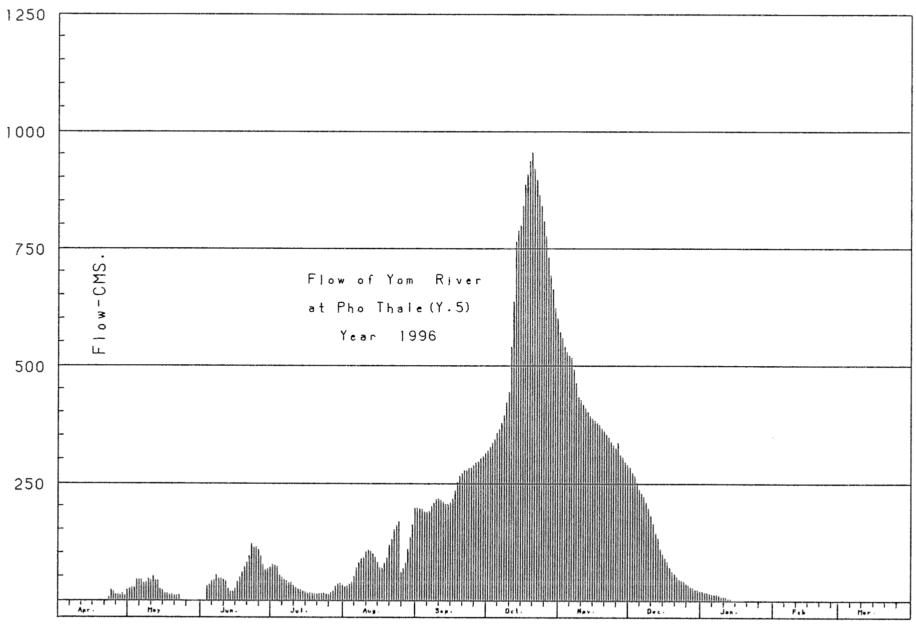
Overbank Flow Conditions — Overbank flow starts at elevation +28.68 m.(M.S.L.) and is included.

General Description — Records fair. Flow effected by the rubber weir about 9 kilometers downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.58	26.41	23.99	25.05	23.97	27.19	28.76	30.02	28.39	23.68	23.90	23.83	
2	25.60	26.43	24.15	25.04	23.98	27.18	28.86	30.00	28.28	23.63	23.89	24.38	
3	25.56	26.44	23.98	24.95	24.11	27.15	28.94	29.97	28.18	23.58	23.89	24.85	
4	25.59	26.66	24.09	24.57	24.19	27.07	29.03	29.95	28.01	23.54	23.95	25.14	
5	25.60	26.67	24.24	24.44	24.51	27.04	29.15	29.94	27.81	23.49	23.98	25.23	
6	25.63	26.66	24.33	24.36	24.90	27.09	29.25	29.93	27.70	23.48	24.01	25.21	
7	25.65	26.57	24.54	24.26	25.15	27.24	29.36	29.89	27.58	23.47	24.07	25.17	
8	25.64	26.59	24.42	24.18	25.31	27.37	29.50	29.84	27.39	23.42	24.11	25.14	
9	25.58	26.69	24.38	24.18	25.40	27.47	29.68	29.77	27.18	23.39	24.15	25.11	
10	25.55	26.64	24.34	24.04	25.60	27.51	29.81	29.72	26.95	23.34	24.16	25.06	
11	25.56	26.76	24.23	23.90	25.68	27.46	29.97	29.66	26.64	23.25	24.16	25.06	
12	25.57	26.65	23.87	23.84	25.64	27.40	30.11	29.60	26.32	23.18	24.16	25.10	
13	25.57	26.63	23.62	23.78	25.55	27.32	30.26	29.55	26.13	23.14	23.93	25.12	
14	25.57	26.39	23.67	23.70	25.40	27.32	30.28	29.48	25.75	23.11	24.08	25.10	
15	25.58	26.33	23.83	23.62	25.18	27.37	30.29	29.45	25.53	23.04	24.05	25.09	
16	25.64	26.25	24.21	23.57	24.91	27.51	30.33	29.41	25.37	22.98	24.03	25.05	
17	25.70	26.23	24.46	23.57	24.90	27.76	30.37	29.38	25.19	22.91	24.00	25.06	
18	25.76	26.20	24.67	23.56	25.11	28.02	30.39	29.33	24.94	22.96	23.97	25.08	
19	25.80	26.19	24.96	23.50	25.39	28.17	30.41	29.26	24.73	23.03	23.94	25.08	
20	25.81	26.15	25.14	23.50	25.87	28.26	30.42	29.20	24.63	23.06	23.91	24.96	
21	25.81	26.13	25.46	23.50	26.10	28.31	30.40	29.13	24.47	23.12	23.86	24.91	
22	26.07	26.18	25.91	23.52	26.43	28.33	30.38	29.06	24.36	23.30	23.84	24.94	
23	26.37	25.79	25.80	23.53	26.60	28.36	30.35	28.98	24.30	23.46	23.81	24.93	
24	26.29	25.24	25.79	23.52	26.71	28.40	30.33	28.89	24.26	23.69	23.74	24.83	
25	26.20	24.54	25.71	23.48	26.86	28.45	30.30	28.83	24.13	23.66	23.69	24.82	
26	26.19	24.41	25.46	23.58	26.94	28.49	30.27	28.94	24.04	23.65	23.64	24.89	
27	26.17	24.54	25.03	23.72	27.06	28.53	30.23	28.68	23.96	23.63	23.60	24.94	
28	26.23	24.56	24.81	23.96	27.27	28.59	30.19	28.62	23.90	23.67	23.58	24.93	
29	26.15	24.50	24.84	24.13	27.45	28.65	30.15	28.52	23.82	23.85		24.98	
30	26.35	24.32	24.93	24.13	27.61	28.71	30.09	28.45	23.78	23.89		25.10	
31		24.18		24.02	27.19		30.06		23.70	23.90		25.19	
Mean	25.81	25.93	24.63	23.96	25.71	27.79	29.93	29.38	25.72	23.40	23.93	24.98	
Max	26.37	26.76	25.91	25.05	27.61	28.71	30.42	30.02	28.39	23.90	24.16	25.23	30.42
Min	25.55	24.18	23.62	23.48	23.97	27.04	28.76	28.45	23.70	22.91	23.58	23.83	22.91

Annual Max Momentary Gage Height 30.42 M (MSL), at 18.00 Hours, on Oct 20, 1996
Zero Gage at Bottom Elevation 22.05 M (MSL), River Bed 19.29 M (MSL)
Left Bank Elevation 30.31 M (MSL)
Right Bank Elevation 28.68 M (MSL), Drainage Area 22344 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	26.7	0.0	77.2	30.8	198.1	319.2	574.0	284.1	20.4	0.0	0.0	
2	0.0	28.1	0.0	76.8	31.2	197.5	328.7	560.0	274.8	18.9	0.0	0.0	
3	0.0	28.8	31.2	72.8	36.4	195.6	336.3	542.0	266.4	17.4	0.0	0.0	
4	0.0	44.8	35.6	55.7	39.6	190.5	345.0	530.0	252.8	16.2	0.0	0.0	
5	0.0	45.6	41.6	49.8	53.0	188.6	357.0	524.0	237.8	14.7	0.0	0.0	
6	0.0	44.8	45.2	46.4	70.5	191.7	367.0	518.0	230.6	14.4	0.0	0.0	
7	0.0	37.9	54.3	42.4	81.8	201.3	378.0	494.0	223.0	14.1	0.0	0.0	
8	0.0	39.3	48.9	39.2	89.0	209.6	396.0	464.0	210.9	12.6	0.0	0.0	
9	0.0	47.2	47.2	39.2	93.0	216.0	422.0	435.5	197.5	11.7	0.0	0.0	
10	0.0	43.2	45.6	33.6	104.0	218.5	446.0	428.0	183.0	10.2	0.0	0.0	
11	0.0	52.8	41.2	28.0	108.4	215.3	542.0	419.0	164.4	7.5	0.0	0.0	
12	0.0	44.0	26.8	25.6	106.2	211.5	637.0	410.0	145.2	5.4	0.0	0.0	
13	0.0	42.4	18.6	23.4	101.2	206.4	766.0	403.0	133.8	4.2	0.0	0.0	
14	0.0	25.4	20.1	21.0	93.0	206.4	788.0	393.2	112.3	3.3	0.0	0.0	
15	0.0	21.8	25.2	18.6	83.1	209.6	799.0	389.0	100.2	1.2	0.0	0.0	
16	0.0	17.0	40.4	17.1	71.0	218.5	843.0	383.4	91.7	0.0	0.0	0.0	
17	0.0	15.8	50.7	17.1	70.5	234.5	887.0	380.0	83.6	0.0	0.0	0.0	
18	0.0	14.0	60.2	16.8	80.0	253.6	909.0	375.0	72.3	0.0	0.0	0.0	
19	0.0	13.6	73.2	15.0	92.5	265.6	938.0	368.0	62.8	0.0	0.0	0.0	
20	0.3	12.0	81.3	15.0	118.9	273.1	956.0	362.0	58.3	0.0	0.0	0.0	
21	0.3	11.2	96.3	15.0	132.0	277.3	920.0	355.0	51.1	0.0	0.0	0.0	
22	8.8	13.2	121.0	15.6	151.8	279.0	898.0	348.0	46.4	0.0	0.0	0.0	
23	24.2	0.0	115.0	15.9	162.0	281.6	865.0	340.1	44.0	0.0	0.0	0.0	
24	19.4	0.0	114.5	15.6	168.6	285.0	843.0	331.5	42.4	0.0	0.0	0.0	
25	14.0	0.0	110.0	14.4	61.4	289.8	810.0	325.8	37.2	0.0	0.0	0.0	
26	13.6	0.0	96.3	17.4	68.6	293.6	777.0	336.3	33.6	0.0	0.0	0.0	
27	12.8	0.0	76.4	21.6	81.8	297.4	733.0	311.6	30.4	0.0	0.0	0.0	
28	15.8	0.0	66.5	30.4	109.8	303.1	693.0	305.9	28.0	0.0	0.0	0.0	
29	12.0	0.0	67.8	37.2	136.0	308.7	665.0	296.4	24.8	0.0		0.0	
30	23.0	0.0	71.9	37.2	162.0	314.4	623.0	289.8	23.4	0.0		0.0	
31		0.0		32.8	198.1		602.0		21.0	0.0		0.0	
Total	144.2	669.6	1723.0	983.8	2986.2	7231.8	20189.2	12192.5	3767.8	172.2	0.0	0.0	50060.3 CMSDAY
Mean	4.8	21.6	57.4	31.7	96.3	241.1	651.3	406.4	121.5	5.6	0.0	0.0	137.2 CMS
Max	24.2	52.8	121.0	77.2	198.1	314.4	956.0	574.0	284.1	20.4	0.0	0.0	956.0 CMS
Min	0.0	0.0	0.0	14.4	30.8	188.6	319.2	289.8	21.0	0.0	0.0	0.0	0.0 CMS
Runoff	12.46	57.85	148.87	85.00	258.01	624.83	1744.35	1053.43	325.54	14.88	0.00	0.00	4325.21 MCM

Momentary Peak 956.00 CMS, at 30.42 M (MSL), at 18.00 Hours, on Oct 20, 1996
Runoff Yield 6.14 Liters/Second/Square KM, Momentary Peak Yield 42.786 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

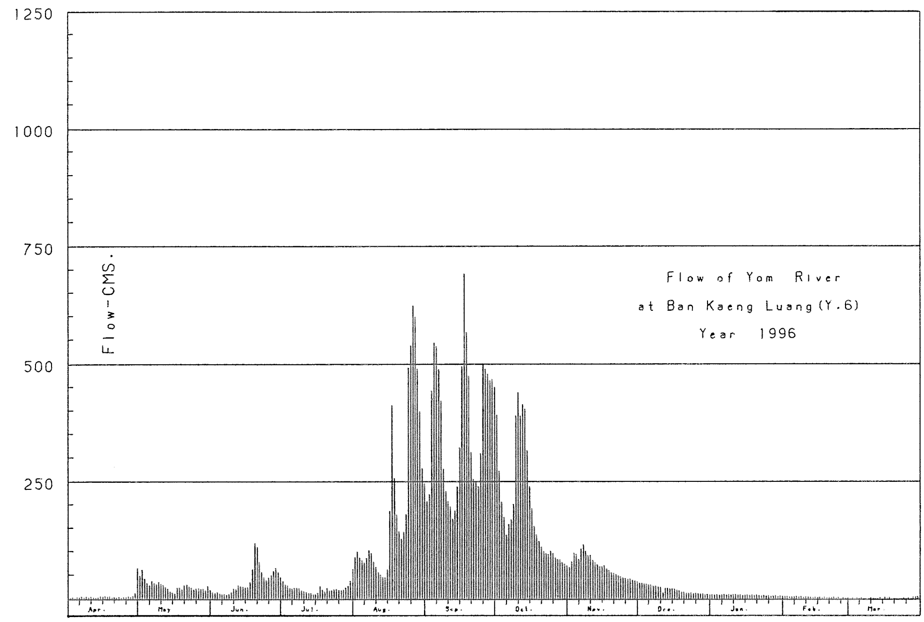
Yom River at Ban Kaeng Luang, Sukhothai (Y.6)

Location	Lat. 17°26′03″ N., Long. 99°47′32″ E., on left bank about 150 meters upstream from Kaeng Luang, Amphoe Si Satchanalai, Sukhothai.
Drainage Area	12,658 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+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	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1952 to date.
Rating Operation	
Period of Rating	1952 to date.
Rated by Float	-
Rated by Current Meter	1952 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.46	60.62	59.98	60.45	61.13	62.20	63.03	60.89	60.40	59.80	59.65	59.40	
2	59.45	60.81	59.95	60.34	61.27	62.32	62.65	61.02	60.38	59.80	59.61	59.40	
3	59.45	60.55	59.98	60.27	61.13	63.30	62.20	61.24	60.37	59.80	59.62	59.39	
4	59.45	60.37	59.92	60.19	61.05	63.86	61.93	61.21	60.35	59.80	59.62	59.38	
5	59.53	60.31	59.84	60.16	61.01	63.81	61.62	61.09	60.33	59.80	59.61	59.38	
6	59.56	60.47	59.80	60.17	61.10	63.55	61.81	61.32	60.30	59.80	59.58	59.37	
7	59.53	60.36	59.80	60.19	61.30	63.19	61.90	61.42	60.27	59.79	59.57	59.37	
8	59.55	60.35	59.80	60.15	61.22	62.68	62.15	61.27	60.25	59.79	59.56	59.42	
9	59.54	60.42	60.00	60.08	61.03	62.37	63.02	61.18	60.24	59.78	59.55	59.44	
10	59.52	60.34	60.14	60.02	60.87	62.20	63.28	61.18	60.20	59.78	59.53	59.42	
11	59.49	60.31	60.14	59.96	60.74	62.11	63.01	61.07	59.99	59.81	59.53	59.41	
12	59.48	60.23	60.28	59.94	60.65	61.91	63.15	61.00	60.18	59.80	59.51	59.40	
13	59.52	60.13	60.26	59.90	60.59	62.04	63.09	60.95	60.16	59.78	59.51	59.38	
14	59.58	60.04	60.21	59.84	60.56	62.43	62.94	60.89	60.15	59.77	59.50	59.45	
15	59.62	59.93	60.21	59.84	60.82	62.98	62.44	60.90	60.14	59.76	59.49	59.48	
16	59.60	59.85	60.19	59.92	62.05	63.58	62.08	60.91	60.14	59.75	59.48	59.48	
17	59.59	60.20	60.43	60.27	63.13	64.45	61.78	60.84	60.10	59.75	59.48	59.48	
18	59.55	60.18	60.83	60.09	62.56	63.98	61.62	60.78	60.05	59.74	59.47	59.44	
19	59.53	60.13	61.44	60.03	61.97	63.47	61.49	60.73	60.01	59.74	59.46	59.42	
20	59.52	60.28	61.37	60.16	61.68	62.92	61.36	60.70	59.97	59.73	59.49	59.40	
21	59.50	60.34	61.01	60.07	61.54	62.53	61.27	60.68	59.94	59.71	59.49	59.38	
22	59.49	60.25	60.75	60.05	61.68	62.50	61.23	60.64	59.94	59.70	59.47	59.36	
23	59.47	60.17	60.57	60.12	61.98	62.44	61.20	60.60	59.93	59.69	59.46	59.38	
24	59.47	60.12	60.49	60.11	63.57	62.89	61.28	60.57	59.92	59.68	59.44	59.41	
25	59.55	60.14	60.56	60.07	63.82	63.62	61.22	60.54	59.90	59.67	59.43	59.40	
26	59.54	60.16	60.66	60.09	64.25	63.55	61.13	60.53	59.88	59.67	59.41	59.41	
27	59.58	60.14	60.78	60.12	64.15	63.50	61.09	60.52	59.88	59.67	59.42	59.41	
28	59.62	60.13	60.85	60.18	63.55	63.42	61.07	60.49	59.85	59.68	59.41	59.54	
29	59.94	60.09	60.74	60.28	63.07	63.43	61.01	60.46	59.82	59.64		59.58	
30	60.84	60.25	60.57	60.45	62.70	63.35	60.96	60.44	59.81	59.63		59.57	
31		60.10		60.82	62.47		60.91		59.80	59.63		59.56	
Mean	59.58	60.25	60.39	60.14	61.89	63.02	61.90	60.87	60.09	59.74	59.51	59.43	
Max	60.84	60.81	61.44	60.82	64.25	64.45	63.28	61.42	60.40	59.81	59.65	59.58	64.45
Min	59.45	59.85	59.80	59.84	60.56	61.91	60.91	60.44	59.80	59.63	59.41	59.36	59.36

Annual Max Momentary Gage Height	64.53 M (MSL), at 10.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation	59.00 M (MSL), River Bed 57.83 M (MSL)
Left Bank Elevation	68.40 M (MSL)
Right Bank Elevation	68.14 M (MSL), Drainage Area 12658 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.9	49.4	14.5	38.2	89.1	208.0	393.6	69.2	35.0	10.0	7.0	3.0	
2	3.8	62.8	13.8	32.0	102.0	224.2	272.5	79.7	34.0	10.0	6.2	3.0	
3	3.8	44.7	14.5	28.5	89.1	443.5	208.0	99.0	33.5	10.0	6.4	2.8	
4	3.8	33.5	13.0	24.5	82.2	547.1	174.3	96.0	32.5	10.0	6.4	2.7	
5	4.9	30.5	11.0	23.0	78.8	537.9	137.3	85.6	31.5	10.0	6.2	2.7	
6	5.4	39.6	10.0	23.5	86.5	489.8	159.3	107.0	30.0	10.0	5.7	2.5	
7	4.9	33.0	10.0	24.5	105.0	423.2	170.5	117.0	28.5	9.8	5.6	2.5	
8	5.3	32.5	10.0	22.5	97.0	277.0	201.8	102.0	27.5	9.8	5.4	3.3	
9	5.1	36.3	15.0	19.0	80.5	230.9	391.7	93.3	27.0	9.6	5.3	3.6	
10	4.8	32.0	22.0	16.0	67.6	208.0	439.8	93.3	25.0	9.6	4.9	3.3	
11	4.4	30.5	22.0	14.0	57.8	196.8	389.9	83.9	14.8	10.3	4.9	3.2	
12	4.2	26.5	29.0	13.5	51.5	171.8	415.8	78.0	24.0	10.0	4.6	3.0	
13	4.8	21.5	28.0	12.5	47.4	188.0	404.7	74.0	23.0	9.6	4.6	2.7	
14	5.7	17.0	25.5	11.0	45.4	239.5	317.4	69.2	22.5	9.4	4.5	3.8	
15	6.4	13.3	25.5	11.0	63.6	323.8	241.0	70.0	22.0	9.2	4.4	4.2	
16	6.0	11.2	24.5	13.0	189.2	495.3	193.0	70.8	22.0	9.0	4.2	4.2	
17	5.9	25.0	36.9	28.5	412.1	693.7	155.7	65.2	20.0	9.0	4.2	4.2	
18	5.3	24.0	64.4	19.5	259.0	569.3	137.3	60.6	17.5	8.8	4.1	3.6	
19	4.9	21.5	119.0	16.5	179.3	475.0	124.0	57.1	15.5	8.8	3.9	3.3	
20	4.8	29.0	112.0	23.0	144.2	314.2	111.0	55.0	14.3	8.6	4.4	3.0	
21	4.5	32.0	78.8	18.5	129.0	254.5	102.0	53.6	13.5	8.2	4.4	2.7	
22	4.4	27.5	58.5	17.5	144.2	250.0	98.0	50.8	13.5	8.0	4.1	2.4	
23	4.1	23.5	46.1	21.0	180.5	241.0	95.0	48.0	13.3	7.8	3.9	2.7	
24	4.1	21.0	40.9	20.5	493.5	309.4	103.0	46.1	13.0	7.6	3.6	3.2	
25	5.3	22.0	45.4	18.5	539.7	502.7	97.0	44.1	12.5	7.4	3.5	3.0	
26	5.1	23.0	52.2	19.5	626.3	489.8	89.1	43.4	12.0	7.4	3.2	3.2	
27	5.7	22.0	60.6	21.0	600.8	480.5	85.6	42.8	12.0	7.4	3.3	3.2	
28	6.4	21.5	66.0	24.0	489.8	465.7	83.9	40.9	11.2	7.6	3.2	5.1	
29	13.5	19.5	57.8	29.0	401.0	467.6	78.8	38.9	10.5	6.8		5.7	
30	65.2	27.5	46.1	38.2	280.0	452.8	74.8	37.6	10.3	6.6		5.6	
31		20.0		63.6	245.5		70.8		10.0	6.6		5.4	
Total	216.4	873.3	1173.0	705.5	6457.6	11171.0	6016.6	2072.1	631.9	272.9	132.1	106.8	29829.2 CMSDAY
Mean	7.2	28.2	39.1	22.8	208.3	372.4	194.1	69.1	20.4	8.8	4.7	3.4	81.7 CMS
Max	65.2	62.8	119.0	63.6	626.3	693.7	439.8	117.0	35.0	10.3	7.0	5.7	693.7 CMS
Min	3.8	11.2	10.0	11.0	45.4	171.8	70.8	37.6	10.0	6.6	3.2	2.4	2.4 CMS
Runoff	18.70	75.45	101.35	60.96	557.94	965.17	519.83	179.03	54.60	23.58	11.41	9.23	2577.24 MCM

Momentary Peak 723.75 CMS, at 64.53 M (MSL), at 10.00 Hours, on Sep 17, 1996

Runoff Yield 6.46 Liters/Second/Square KM, Momentary Peak Yield 57.177 Liters/Second/Square KM

WATER YEAR 1996

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 — 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

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

Period of Available Gage Records — 1964 to date.

Rating Operation

Period of Rating — 1964 to date.

Rated by Float — -

Rated by Current Meter — 1964 to date.

Stability of Channel Regimes — Stable.

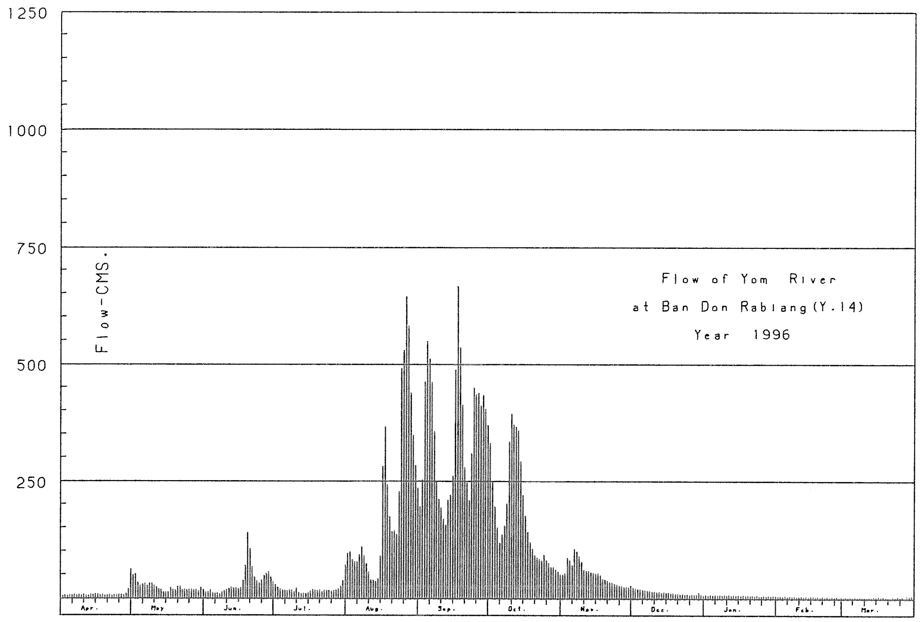
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 21 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.02	66.91	66.25	66.59	67.49	68.41	69.41	66.94	66.50	66.07	65.99	65.87	
2	66.02	66.96	66.30	66.51	67.54	68.86	68.82	66.97	66.45	66.06	65.98	65.87	
3	66.02	66.68	66.38	66.43	67.35	70.19	68.42	67.40	66.44	66.07	65.98	65.87	
4	66.03	66.55	66.24	66.40	67.27	70.64	68.02	67.32	66.42	66.08	65.98	65.87	
5	66.08	66.61	66.21	66.38	67.29	70.45	67.73	67.20	66.41	66.07	65.97	65.87	
6	66.07	66.62	66.18	66.33	67.45	70.18	67.89	67.60	66.38	66.07	65.96	65.87	
7	66.06	66.56	66.18	66.39	67.65	69.57	68.07	67.55	66.37	66.08	65.95	65.87	
8	66.06	66.62	66.25	66.35	67.43	68.82	68.46	67.43	66.34	66.08	65.95	65.87	
9	66.06	66.64	66.35	66.31	67.24	68.55	69.44	67.29	66.32	66.08	65.94	65.87	
10	66.05	66.53	66.39	66.45	67.00	68.39	69.80	67.07	66.30	66.08	65.94	65.86	
11	66.04	66.51	66.45	66.24	66.77	68.19	69.65	67.05	66.29	66.07	65.94	65.86	
12	66.04	66.43	66.49	66.21	66.77	68.09	69.63	67.04	66.28	66.06	65.94	65.86	
13	66.08	66.36	66.47	66.20	66.71	68.52	69.57	67.01	66.27	66.06	65.93	65.88	
14	66.09	66.28	66.45	66.21	66.82	68.62	69.15	66.98	66.26	66.06	65.93	65.91	
15	66.10	66.23	66.43	66.24	67.44	68.93	68.61	66.97	66.26	66.06	65.93	65.91	
16	66.10	66.24	66.47	66.30	69.07	70.32	68.26	66.97	66.25	66.06	65.93	65.92	
17	66.09	66.48	66.75	66.42	69.63	71.24	67.94	66.93	66.24	66.05	65.93	65.90	
18	66.07	66.37	67.19	66.35	68.79	70.58	67.75	66.80	66.22	66.05	65.92	65.89	
19	66.06	66.38	67.93	66.37	68.25	69.90	67.60	66.79	66.20	66.04	65.92	65.87	
20	66.05	66.49	67.61	66.36	67.96	69.05	67.46	66.74	66.18	66.04	65.91	65.86	
21	66.04	66.54	67.14	66.31	67.96	68.82	67.39	66.70	66.16	66.03	65.91	65.86	
22	66.03	66.40	66.86	66.35	67.89	68.53	67.35	66.67	66.15	66.03	65.91	65.85	
23	66.02	66.39	66.71	66.38	68.68	69.27	67.32	66.64	66.15	66.02	65.90	65.88	
24	66.06	66.38	66.66	66.34	70.34	70.12	67.47	66.60	66.13	66.00	65.90	65.88	
25	66.07	66.39	66.74	66.34	70.54	70.03	67.33	66.57	66.12	66.00	65.89	65.87	
26	66.06	66.41	66.91	66.35	71.13	70.05	67.24	66.54	66.12	66.00	65.89	65.85	
27	66.08	66.39	66.97	66.39	70.81	69.90	67.15	66.52	66.12	66.00	65.88	65.89	
28	66.17	66.38	67.01	66.42	70.06	70.03	67.13	66.50	66.10	66.00	65.87	65.97	
29	66.42	66.34	66.86	66.55	69.51	69.85	67.07	66.51	66.28	66.00		65.96	
30	67.08	66.47	66.68	66.73	69.09	69.65	67.03	66.56	66.08	66.00		65.95	
31		66.41		67.21	68.74		66.93		66.07	65.99		65.93	
Mean	66.11	66.48	66.65	66.40	68.28	69.46	68.10	66.93	66.25	66.04	65.93	65.89	
Max	67.08	66.96	67.93	67.21	71.13	71.24	69.80	67.60	66.50	66.08	65.99	65.97	71.24
Min	66.02	66.23	66.18	66.20	66.71	68.09	66.93	66.50	66.07	65.99	65.87	65.85	65.85

Annual Max Momentary Gage Height 71.40 M (MSL), at 6.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 65.10 M (MSL), River Bed 63.09 M (MSL)
Left Bank Elevation 78.18 M (MSL)
Right Bank Elevation 75.98 M (MSL), Drainage Area 12131 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.5	50.7	14.0	30.4	97.1	196.3	331.7	52.8	25.5	8.8	6.8	4.4	
2	7.5	54.2	16.0	26.1	101.6	253.4	247.8	54.9	22.7	8.5	6.6	4.4	
3	7.5	35.8	19.2	21.6	85.0	463.3	197.5	89.0	22.2	8.8	6.6	4.4	
4	7.7	28.3	13.6	20.0	78.6	548.8	151.2	82.6	21.1	9.0	6.6	4.4	
5	9.0	31.6	12.4	19.2	80.2	512.5	120.0	73.0	20.6	8.8	6.4	4.4	
6	8.8	32.2	11.5	17.2	93.5	461.5	136.9	107.0	19.2	8.8	6.2	4.4	
7	8.5	28.8	11.5	19.6	112.0	358.0	156.7	102.5	18.8	9.0	6.0	4.4	
8	8.5	32.2	14.0	18.0	91.7	247.8	202.5	91.7	17.6	9.0	6.0	4.4	
9	8.5	33.4	18.0	16.4	76.2	213.8	336.6	80.2	16.8	9.0	5.8	4.4	
10	8.3	27.1	19.6	22.7	57.0	193.8	396.0	62.6	16.0	9.0	5.8	4.2	
11	8.0	26.1	22.7	13.6	41.2	169.9	371.2	61.0	15.6	8.8	5.8	4.2	
12	8.0	21.6	24.9	12.4	41.2	158.9	367.9	60.2	15.2	8.5	5.8	4.2	
13	9.0	18.4	23.9	12.0	37.6	210.0	358.0	57.8	14.8	8.5	5.6	4.6	
14	9.2	15.2	22.7	12.4	44.4	222.5	294.0	55.6	14.4	8.5	5.6	5.2	
15	9.5	13.2	21.6	13.6	92.6	263.2	221.2	54.9	14.4	8.5	5.6	5.2	
16	9.5	13.6	23.9	16.0	282.8	487.8	178.2	54.9	14.0	8.5	5.6	5.4	
17	9.2	24.4	40.0	21.1	367.9	668.0	142.4	52.1	13.6	8.3	5.6	5.0	
18	8.8	18.8	72.2	18.0	243.7	537.2	122.0	43.0	12.8	8.3	5.4	4.8	
19	8.5	19.2	141.3	18.8	177.0	413.0	107.0	42.4	12.0	8.0	5.4	4.4	
20	8.3	24.9	108.0	18.4	144.6	280.0	94.4	39.4	11.5	8.0	5.2	4.2	
21	8.0	27.7	68.2	16.4	144.6	247.8	88.2	37.0	11.0	7.7	5.2	4.2	
22	7.7	20.0	47.2	18.0	136.9	211.2	85.0	35.2	10.8	7.7	5.2	4.0	
23	7.5	19.6	37.6	19.2	230.0	311.1	82.6	33.4	10.8	7.5	5.0	4.6	
24	8.5	19.2	34.6	17.6	491.6	451.0	95.3	31.0	10.2	7.0	5.0	4.6	
25	8.8	19.6	39.4	17.6	529.6	435.2	83.4	29.4	10.0	7.0	4.8	4.4	
26	8.5	20.6	50.7	18.0	646.0	438.8	76.2	27.7	10.0	7.0	4.8	4.0	
27	9.0	19.6	54.9	19.6	582.0	413.0	69.0	26.6	10.0	7.0	4.6	4.8	
28	11.3	19.2	57.8	21.1	440.5	435.2	67.4	25.5	9.5	7.0	4.4	6.4	
29	21.1	17.6	47.2	28.3	348.2	404.5	62.6	26.1	15.2	7.0		6.2	
30	63.4	23.9	35.8	38.8	285.6	371.2	59.4	28.8	9.0	7.0		6.0	
31		20.6		73.8	237.5		52.1		8.8	6.8		5.6	
Total	323.6	777.3	1124.4	655.9	6418.4	10578.7	5354.4	1618.3	454.1	251.3	157.4	145.8	27859.6 CMSDAY
Mean	10.8	25.1	37.5	21.2	207.0	352.6	172.7	53.9	14.6	8.1	5.6	4.7	76.3 CMS
Max	63.4	54.2	141.3	73.8	646.0	668.0	396.0	107.0	25.5	9.0	6.8	6.4	668.0 CMS
Min	7.5	13.2	11.5	12.0	37.6	158.9	52.1	25.5	8.8	6.8	4.4	4.0	4.0 CMS
Runoff	27.96	67.16	97.15	56.67	554.55	914.00	462.62	139.82	39.23	21.71	13.60	12.60	2407.07 MCM

Momentary Peak 700.00 CMS, at 71.40 M (MSL), at 6.00 Hours, on Sep 17, 1996

Runoff Yield 6.29 Liters/Second/Square KM, Momentary Peak Yield 57.703 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

Yom River at Bang Rakam, Phitsanulok (Y.16)

Location	Lat. 16°-45'-35" N., Long. 100°-07'-40" E., on right bank about 58 meters upstream from the old staff gage, Amphoe Bang Rakam, Phitsanulok.
Drainage Area	20,841 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+31.630 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 13 meters from the top staff gage.
Elevation	+41.630 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	1967,1995 to date.
Rated by Float	-
Rated by Current Meter	1967,1995 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +39.96 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

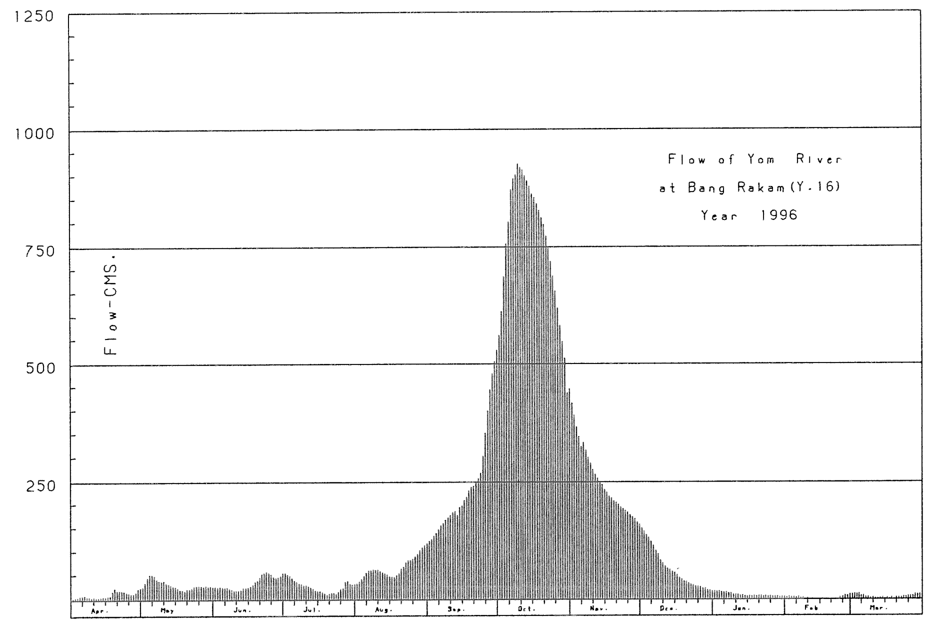
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.28	33.68	33.68	34.80	34.01	36.80	40.93	40.29	37.48	33.22	32.41	32.93	
2	32.27	34.05	33.67	34.73	34.17	36.92	41.11	40.15	37.30	33.20	32.39	32.94	
3	32.44	34.50	33.67	34.58	34.40	37.07	41.37	40.02	37.15	33.20	32.36	32.95	
4	32.59	34.69	33.69	34.47	34.57	37.24	41.60	39.89	36.98	33.16	32.35	32.93	
5	32.76	34.71	33.66	34.29	34.86	37.41	41.76	39.77	36.81	33.11	32.34	32.79	
6	32.78	34.60	33.59	34.13	34.97	37.58	41.99	39.82	36.56	33.09	32.32	32.65	
7	32.55	34.37	33.54	34.02	35.02	37.70	42.06	39.72	36.31	33.05	32.30	32.45	
8	32.44	34.20	33.40	33.93	35.04	37.81	42.09	39.61	36.07	32.99	32.21	32.36	
9	32.40	34.21	33.33	33.88	35.05	37.93	42.16	39.53	35.72	32.87	32.15	32.31	
10	32.39	34.20	33.26	33.83	35.03	38.02	42.14	39.42	35.51	32.84	32.11	32.29	
11	32.39	34.05	33.27	33.73	34.93	38.15	42.12	39.34	35.31	32.83	32.09	32.27	
12	32.37	33.97	33.39	33.65	34.87	38.19	42.08	39.25	35.14	32.79	32.07	32.26	
13	32.46	33.85	33.57	33.45	34.81	38.04	42.05	39.18	35.03	32.71	32.03	32.26	
14	32.48	33.76	33.62	33.35	34.68	38.34	42.01	39.09	34.93	32.64	32.02	32.25	
15	32.51	33.67	33.68	33.26	34.59	38.42	41.96	38.98	34.81	32.60	32.02	32.24	
16	32.54	33.54	33.75	33.21	34.53	38.61	41.93	38.88	34.67	32.56	32.01	32.24	
17	32.72	33.42	33.93	33.16	34.54	38.76	41.89	38.78	34.49	32.60	32.01	32.24	
18	33.24	33.31	34.14	32.98	34.64	38.94	41.84	38.69	34.33	32.62	32.01	32.24	
19	33.54	33.27	34.29	32.89	34.82	39.05	41.79	38.60	34.22	32.62	32.01	32.24	
20	33.34	33.44	34.49	32.96	35.11	39.06	41.74	38.52	34.13	32.61	32.01	32.27	
21	33.29	33.49	34.72	33.08	35.27	39.14	41.66	38.45	34.05	32.60	32.01	32.36	
22	33.29	33.59	34.84	33.02	35.59	39.26	41.57	38.37	33.93	32.59	32.04	32.42	
23	33.20	33.73	34.88	32.99	35.69	39.36	41.48	38.30	33.81	32.58	32.18	32.46	
24	33.13	33.81	34.85	33.15	35.72	39.64	41.37	38.21	33.77	32.57	32.32	32.52	
25	33.00	33.78	34.70	33.50	35.78	39.94	41.26	38.14	33.69	32.56	32.51	32.57	
26	32.91	33.78	34.56	33.59	35.91	40.21	41.14	38.05	33.64	32.54	32.68	32.59	
27	32.97	33.75	34.48	34.18	36.10	40.43	41.01	37.96	33.57	32.52	32.75	32.69	
28	33.14	33.79	34.50	34.20	36.29	40.58	40.87	37.86	33.50	32.48	32.87	32.89	
29	33.46	33.76	34.63	34.00	36.48	40.70	40.73	37.74	33.37	32.42		32.89	
30	33.56	33.73	34.79	33.90	36.57	40.80	40.39	37.62	33.29	32.40		32.89	
31		33.71		33.93	36.69		40.43		33.23	32.40		32.89	
Mean	32.81	33.88	34.02	33.70	35.18	38.67	41.57	38.94	34.93	32.74	32.24	32.53	
Max	33.56	34.71	34.88	34.80	36.69	40.80	42.16	40.29	37.48	33.22	32.87	32.95	42.16
Min	32.27	33.27	33.26	32.89	34.01	36.80	40.39	37.62	33.23	32.40	32.01	32.24	32.01

Annual Max Momentary Gage Height 42.16 M (MSL), at 6.00 Hours, on Oct 9, 1996

Zero Gage at Bottom Elevation 31.63 M (MSL), River Bed 30.95 M (MSL)

Left Bank Elevation 39.96 M (MSL)

Right Bank Elevation 43.03 M (MSL), Drainage Area 20841 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.8	26.6	26.6	56.0	34.2	124.0	562.5	418.0	152.6	17.4	5.1	11.6		
2	3.7	35.2	26.4	53.9	38.2	128.8	611.9	391.0	144.5	17.0	4.9	11.8		
3	5.4	47.0	26.4	49.4	44.0	134.8	687.3	367.6	138.0	17.0	4.6	12.0		
4	6.9	52.7	26.8	46.1	49.1	141.8	756.0	345.3	131.2	16.2	4.5	11.6		
5	8.6	53.3	26.2	41.2	57.8	149.5	804.0	325.5	124.4	15.2	4.4	8.9		
6	8.8	50.0	24.8	37.3	61.1	157.1	873.0	333.4	114.4	14.8	4.2	7.5		
7	6.5	43.2	23.8	34.5	62.6	163.0	895.2	318.0	104.9	14.0	4.0	5.5		
8	5.4	39.0	21.0	32.3	63.2	168.5	904.8	301.5	96.4	12.8	3.1	4.6		
9	5.0	39.2	19.6	31.0	63.5	174.5	927.2	290.5	84.2	10.4	2.5	4.1		
10	4.9	39.0	18.2	29.8	62.9	179.0	920.8	275.7	77.3	9.8	2.1	3.9		
11	4.9	35.2	18.4	27.6	59.9	185.5	914.4	266.7	71.3	9.6	1.9	3.7		
12	4.7	33.3	20.8	26.0	58.1	187.5	901.6	257.2	66.2	8.9	1.7	3.6		
13	5.6	30.2	24.4	22.0	56.3	180.0	892.0	250.4	62.9	8.1	1.3	3.6		
14	5.8	28.2	25.4	20.0	52.4	195.7	879.2	243.2	59.9	7.4	1.2	3.5		
15	6.1	26.4	26.6	18.2	49.7	200.1	864.0	234.5	56.3	7.0	1.2	3.4		
16	6.4	23.8	28.0	17.2	47.9	210.6	855.0	227.0	52.1	6.6	1.1	3.4		
17	8.2	21.4	32.3	16.2	48.2	218.8	843.0	219.9	46.7	7.0	1.1	3.4		
18	17.8	19.2	37.5	12.6	51.2	231.5	828.0	214.9	42.3	7.2	1.1	3.4		
19	23.8	18.4	41.2	10.8	56.6	240.0	813.0	210.0	39.5	7.2	1.1	3.4		
20	19.8	21.8	46.7	12.2	65.3	240.8	798.0	205.6	37.3	7.1	1.1	3.7		
21	18.8	22.8	53.6	14.6	70.1	247.2	774.0	201.8	35.2	7.0	1.1	4.6		
22	18.8	24.8	57.2	13.4	79.7	258.3	747.0	197.3	32.3	6.9	1.4	5.2		
23	17.0	27.6	58.4	12.8	83.1	268.8	720.0	193.5	29.3	6.8	2.8	5.6		
24	15.6	29.3	57.5	16.0	84.2	306.0	687.3	188.5	28.4	6.7	4.2	6.2		
25	13.0	28.6	53.0	23.0	86.3	353.8	655.4	185.0	26.8	6.6	6.1	6.7		
26	11.2	28.6	48.8	24.8	90.9	402.0	620.6	180.5	25.8	6.4	7.8	6.9		
27	12.4	28.0	46.4	38.5	97.5	446.6	582.9	176.0	24.4	6.2	8.5	7.9		
28	15.8	28.8	47.0	39.0	104.1	479.6	547.5	171.0	23.0	5.8	10.4	10.8		
29	22.2	28.2	50.9	34.0	111.2	507.0	513.9	165.0	20.4	5.2		10.8		
30	24.2	27.6	55.7	31.5	114.8	530.0	438.0	159.0	18.8	5.0		10.8		
31		27.2		32.3	119.6		446.6		17.6	5.0		10.8		
Total	331.1	984.6	1069.6	874.2	2123.7	7410.8	23264.1	7513.5	1984.4	288.3	94.5	202.9	46141.7	CMSDAY
Mean	11.0	31.8	35.7	28.2	68.5	247.0	750.5	250.4	64.0	9.3	3.4	6.5	126.4	CMS
Max	24.2	53.3	58.4	56.0	119.6	530.0	927.2	418.0	152.6	17.4	10.4	12.0	927.2	CMS
Min	3.7	18.4	18.2	10.8	34.2	124.0	438.0	159.0	17.6	5.0	1.1	3.4	1.1	CMS
Runoff	28.61	85.07	92.41	75.53	183.49	640.29	2010.02	649.17	171.45	24.91	8.16	17.53	3986.64	MCM

Momentary Peak 927.20 CMS, at 42.16 M (MSL), at 6.00 Hours, on Oct 9, 1996

Runoff Yield 6.07 Liters/Second/Square KM, Momentary Peak Yield 44.489 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

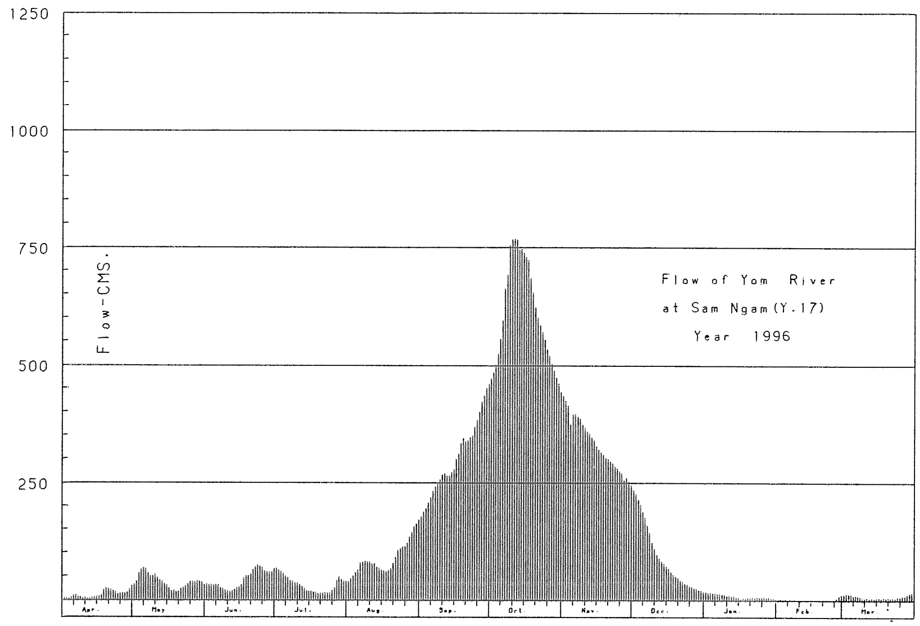
Yom River at Sam Ngam, Phichit (Y.17)

Location	Lat. 16°-30'-50" N., Long. 100°-12'-40" E., on left bank at the bridge on highway, infront of Amphoe Sam Ngam Office, Amphoe Sam Ngam, Phichit.
Drainage Area	21,415 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+31.49 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 50 meters from Amphoe Sam Ngam Office.
Elevation	+37.838 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967, 1990 to date.
Rated by Float	-
Rated by Current Meter	1967-1980, 1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.01	32.95	32.95	33.62	33.07	35.18	37.32	37.22	35.79	32.52	31.90	32.33	
2	31.96	33.05	32.94	33.57	33.18	35.28	37.36	37.18	35.69	32.50	31.91	32.38	
3	31.95	33.44	32.93	33.49	33.31	35.37	37.40	37.14	35.57	32.49	31.92	32.39	
4	32.05	33.58	32.92	33.43	33.43	35.49	37.45	36.98	35.45	32.48	31.90	32.33	
5	32.25	33.65	32.94	33.30	33.57	35.62	37.51	37.07	35.29	32.45	31.87	32.23	
6	32.27	33.59	32.90	33.21	33.82	35.75	37.59	37.07	35.14	32.43	31.86	32.21	
7	32.17	33.43	32.80	33.12	33.87	35.86	37.68	37.05	34.95	32.39	31.86	32.22	
8	32.07	33.28	32.73	33.06	33.89	35.93	37.72	37.03	34.76	32.36	31.85	32.13	
9	32.03	33.31	32.68	33.02	33.89	36.01	37.80	36.98	34.50	32.30	31.79	32.05	
10	32.02	33.36	32.62	32.99	33.87	36.10	37.81	36.94	34.32	32.25	31.74	32.02	
11	32.00	33.24	32.59	32.93	33.81	36.14	37.81	36.90	34.15	32.22	31.70	32.01	
12	32.00	33.14	32.62	32.87	33.80	36.08	37.81	36.87	34.00	32.19	31.64	32.00	
13	32.03	33.07	32.71	32.76	33.69	36.09	37.79	36.83	33.90	32.17	31.64	31.99	
14	32.10	32.98	32.78	32.65	33.63	36.15	37.79	36.79	33.81	32.11	31.64	32.00	
15	32.11	32.90	32.82	32.61	33.57	36.23	37.78	36.70	33.71	32.04	31.70	32.00	
16	32.13	32.75	32.93	32.59	33.52	36.43	37.77	36.63	33.61	31.97	31.79	32.01	
17	32.29	32.63	33.20	32.55	33.50	36.56	37.76	36.59	33.48	31.99	31.77	32.02	
18	32.65	32.64	33.31	32.48	33.52	36.73	37.71	36.53	33.35	32.01	31.74	32.02	
19	32.78	32.58	33.29	32.43	33.63	36.82	37.67	36.47	33.28	32.03	31.73	32.04	
20	32.75	32.57	33.40	32.42	33.81	36.76	37.63	36.44	33.21	32.06	31.69	32.04	
21	32.67	32.76	33.57	32.48	34.06	36.79	37.60	36.40	33.12	32.07	31.60	32.03	
22	32.64	32.80	33.69	32.49	34.27	36.82	37.57	36.35	33.06	32.07	31.54	32.02	
23	32.51	32.85	33.73	32.47	34.33	36.85	37.54	36.29	32.98	32.09	31.50	32.02	
24	32.38	32.97	33.71	32.47	34.37	36.94	37.51	36.24	32.92	32.09	31.55	32.08	
25	32.38	33.04	33.64	32.64	34.39	37.02	37.47	36.19	32.88	32.09	31.51	32.12	
26	32.42	33.07	33.53	32.81	34.49	37.09	37.44	36.13	32.82	32.07	31.97	32.17	
27	32.45	33.05	33.48	33.12	34.65	37.17	37.41	35.99	32.78	32.07	32.22	32.21	
28	32.52	33.08	33.45	33.25	34.78	37.22	37.37	36.03	32.74	32.04	32.28	32.31	
29	32.69	33.08	33.49	33.16	34.92	37.26	37.33	35.96	32.68	32.02		32.45	
30	32.87	33.01	33.59	33.07	35.00	37.29	37.29	35.88	32.63	31.94		32.48	
31		32.93		33.05	35.09		37.24		32.58	31.91		32.44	
Mean	32.31	33.06	33.13	32.91	33.96	36.37	37.58	36.63	33.84	32.17	31.78	32.15	
Max	32.87	33.65	33.73	33.62	35.09	37.29	37.81	37.22	35.79	32.52	32.28	32.48	37.81
Min	31.95	32.57	32.59	32.42	33.07	35.18	37.24	35.88	32.58	31.91	31.50	31.99	31.50

Annual Max Momentary Gage Height 37.81 M (MSL), at 6.00 Hours, on Oct 12, 1996
Zero Gage at Bottom Elevation 31.49 M (MSL), River Bed 30.36 M (MSL)
Left Bank Elevation 39.52 M (MSL)
Right Bank Elevation 38.36 M (MSL), Drainage Area 21415 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.7	35.5	35.5	69.1	41.5	180.3	472.0	437.0	237.1	18.0	3.7	13.3	
2	4.8	40.5	35.0	66.5	47.0	189.2	486.0	425.0	227.5	17.5	3.9	14.5	
3	4.6	60.0	34.5	62.5	53.5	197.3	500.0	415.0	216.1	17.3	4.1	14.7	
4	6.6	67.0	34.0	59.5	59.5	208.6	525.5	376.3	204.7	17.0	3.7	13.3	
5	11.2	70.8	35.0	53.0	66.5	220.9	556.1	397.5	190.1	16.3	3.2	10.7	
6	11.8	67.5	33.0	48.5	80.1	233.3	596.9	397.5	176.9	15.8	3.1	10.2	
7	9.3	59.5	28.0	44.0	82.8	244.0	663.2	392.5	160.8	14.7	3.1	10.5	
8	7.1	52.0	25.2	41.0	83.9	251.0	693.8	387.5	144.8	14.0	2.9	8.4	
9	6.2	53.5	23.2	39.0	83.9	259.0	755.0	376.3	124.5	12.5	1.9	6.6	
10	6.0	56.0	20.8	37.5	82.8	268.0	769.0	368.9	111.0	11.2	1.4	6.0	
11	5.5	50.0	19.8	34.5	79.6	272.0	769.0	361.5	99.0	10.5	1.0	5.7	
12	5.5	45.0	20.8	31.5	79.0	266.0	769.0	355.9	90.0	9.8	0.4	5.5	
13	6.2	41.5	24.4	26.4	72.9	267.0	747.4	348.6	84.5	9.3	0.4	5.3	
14	7.7	37.0	27.2	22.0	69.7	273.0	747.4	341.8	79.6	8.0	0.4	5.5	
15	8.0	33.0	29.0	20.4	66.5	281.0	739.7	330.5	74.1	6.4	1.0	5.5	
16	8.4	26.0	34.5	19.8	64.0	301.0	732.1	321.8	68.6	5.0	1.9	5.7	
17	12.3	21.2	48.0	18.8	63.0	314.0	724.4	317.0	62.0	5.3	1.7	6.0	
18	22.0	21.6	53.5	17.0	64.0	334.3	686.2	311.0	55.5	5.7	1.4	6.0	
19	27.2	19.5	52.5	15.8	69.7	346.7	655.5	305.0	52.0	6.2	1.3	6.4	
20	26.0	19.3	58.0	15.5	79.6	338.0	625.0	302.0	48.5	6.9	0.9	6.4	
21	22.8	26.4	66.5	17.0	93.6	341.8	602.0	298.0	44.0	7.1	0.0	6.2	
22	21.6	28.0	72.9	17.3	107.3	346.7	586.7	293.0	41.0	7.1	0.0	6.0	
23	17.7	30.5	75.2	16.8	111.8	352.2	571.4	287.0	37.0	7.5	0.0	6.0	
24	14.5	36.5	74.1	16.8	114.7	368.9	556.1	282.0	34.0	7.5	0.0	7.3	
25	14.5	40.0	70.2	21.6	116.2	385.0	535.7	277.0	32.0	7.5	0.0	8.2	
26	15.5	41.5	64.5	28.5	123.8	402.5	520.4	271.0	29.0	7.1	5.0	9.3	
27	16.3	40.5	62.0	44.0	136.0	422.5	505.1	257.0	27.2	7.1	10.5	10.2	
28	18.0	42.0	60.5	50.5	146.4	437.0	489.5	261.0	25.6	6.4	12.0	12.8	
29	23.6	42.0	62.5	46.0	158.2	451.0	475.5	254.0	23.2	6.0		16.3	
30	31.5	38.5	67.5	41.5	165.0	461.5	461.5	246.0	21.2	4.5		17.0	
31		34.5		40.5	172.6		444.0		19.5	3.9		16.0	
Total	398.1	1276.8	1347.8	1082.8	2835.1	9213.7	18961.1	9994.6	2841.0	299.1	68.9	281.5	48600.5 CMSDAY
Mean	13.3	41.2	44.9	34.9	91.5	307.1	611.6	333.2	91.6	9.6	2.5	9.1	133.2 CMS
Max	31.5	70.8	75.2	69.1	172.6	461.5	769.0	437.0	237.1	18.0	12.0	17.0	769.0 CMS
Min	4.6	19.3	19.8	15.5	41.5	180.3	444.0	246.0	19.5	3.9	0.0	5.3	0.0 CMS
Runoff	34.40	110.32	116.45	93.55	244.95	796.06	1638.24	863.53	245.46	25.84	5.95	24.32	4199.08 MCM

Momentary Peak 769.00 CMS, at 37.81 M (MSL), at 6.00 Hours, on Oct 12, 1996

Runoff Yield 6.22 Liters/Second/Square KM, Momentary Peak Yield 35.909 Liters/Second/Square KM

WATER YEAR 1996

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, Ban Ngao Sak, Amphoe Song, Phrae.

Drainage Area — 5,410 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +180.98 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.

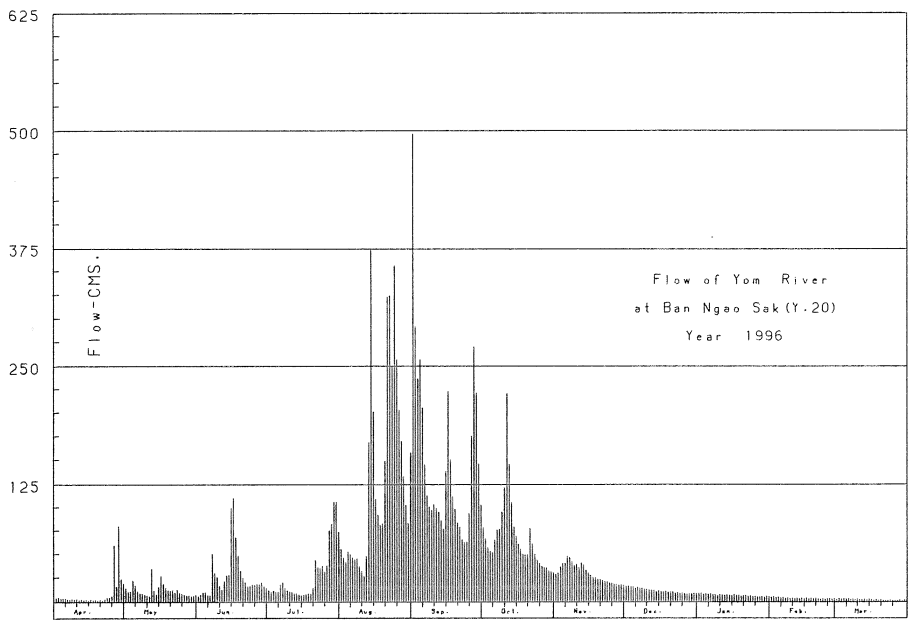
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 88 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	182.23	182.55	182.31	182.52	183.28	186.29	183.56	182.88	182.62	182.41	182.26	182.16	
2	182.22	182.46	182.34	182.44	183.14	185.33	183.41	182.89	182.61	182.40	182.26	182.16	
3	182.19	182.45	182.44	182.51	183.08	184.97	183.30	183.01	182.61	182.38	182.25	182.16	
4	182.17	182.76	182.42	182.44	183.23	185.11	183.24	183.05	182.59	182.38	182.23	182.16	
5	182.16	182.63	182.35	182.46	183.20	184.75	183.23	183.06	182.57	182.38	182.22	182.16	
6	182.15	182.48	182.32	182.66	183.14	184.26	183.40	183.16	182.58	182.38	182.22	182.15	
7	182.15	182.42	183.21	182.72	183.12	183.95	183.54	183.15	182.57	182.37	182.20	182.14	
8	182.15	182.38	182.89	182.56	183.13	183.81	183.54	183.08	182.55	182.34	182.20	182.13	
9	182.15	182.37	182.83	182.51	183.02	183.78	183.76	183.03	182.54	182.33	182.19	182.13	
10	182.14	182.32	182.64	182.46	182.93	183.84	184.04	183.04	182.53	182.34	182.18	182.14	
11	182.13	182.31	182.52	182.43	182.84	183.80	184.86	182.99	182.53	182.34	182.18	182.13	
12	182.13	182.98	182.74	182.40	183.16	183.76	184.26	183.07	182.52	182.34	182.18	182.13	
13	182.12	182.50	182.86	182.38	184.47	183.65	183.87	183.03	182.50	182.34	182.18	182.12	
14	182.11	182.38	182.86	182.36	185.77	183.55	183.58	182.95	182.47	182.34	182.18	182.12	
15	182.11	182.60	183.81	182.34	184.72	184.19	183.45	182.90	182.48	182.33	182.18	182.12	
16	182.12	182.84	183.92	182.34	183.90	184.87	183.35	182.85	182.47	182.35	182.18	182.11	
17	182.12	182.69	183.44	182.38	183.72	184.31	183.27	182.82	182.47	182.34	182.18	182.11	
18	182.10	182.57	183.17	182.39	183.60	183.93	183.20	182.81	182.46	182.32	182.18	182.11	
19	182.10	182.52	182.94	182.40	183.61	183.79	183.18	182.79	182.45	182.31	182.18	182.11	
20	182.11	182.49	182.81	182.57	184.29	183.63	183.19	182.77	182.44	182.31	182.18	182.10	
21	182.10	182.51	182.71	183.11	185.52	183.57	183.56	182.75	182.44	182.31	182.17	182.10	
22	182.13	182.44	182.62	183.00	185.53	183.41	183.35	182.74	182.42	182.31	182.16	182.09	
23	182.24	182.53	182.62	182.97	185.06	183.36	183.19	182.72	182.42	182.30	182.15	182.09	
24	182.23	182.41	182.67	183.02	185.69	183.38	183.11	182.71	182.41	182.29	182.15	182.09	
25	182.31	182.37	182.64	182.92	185.11	183.73	183.05	182.69	182.41	182.27	182.15	182.09	
26	183.33	182.36	182.68	183.02	184.73	184.52	183.02	182.68	182.40	182.27	182.15	182.08	
27	182.62	182.34	182.68	183.53	184.48	185.20	183.00	182.66	182.38	182.27	182.15	182.07	
28	183.58	182.32	182.71	183.61	184.14	184.86	182.98	182.65	182.38	182.27	182.16	182.07	
29	182.79	182.31	182.62	183.88	183.83	184.27	182.94	182.65	182.39	182.27		182.09	
30	182.69	182.30	182.56	183.87	183.62	183.84	182.91	182.64	182.39	182.27		182.12	
31		182.33		183.51	184.37		182.90		182.39	182.27		182.20	
Mean	182.30	182.48	182.78	182.76	183.98	184.19	183.39	182.87	182.48	182.33	182.19	182.12	
Max	183.58	182.98	183.92	183.88	185.77	186.29	184.86	183.16	182.62	182.41	182.26	182.20	186.29
Min	182.10	182.30	182.31	182.34	182.84	183.36	182.90	182.64	182.38	182.27	182.15	182.07	182.07

Annual Max Momentary Gage Height 186.45 M (MSL), at 7.00 Hours, on Sep 1, 1996
Zero Gage at Bottom Elevation 180.98 M (MSL), River Bed 179.34 M (MSL)
Left Bank Elevation 193.51 M (MSL)
Right Bank Elevation 195.00 M (MSL), Drainage Area 5410 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.60	14.00	6.30	12.80	56.60	497.60	78.80	29.80	16.80	9.30	5.20	3.20	
2	4.40	10.80	7.20	10.20	46.80	292.80	66.80	30.40	16.40	9.00	5.20	3.20	
3	3.80	10.50	10.20	12.40	42.60	237.80	58.00	37.70	16.40	8.40	5.00	3.20	
4	3.40	23.00	9.60	10.20	53.10	257.60	53.80	40.50	15.60	8.40	4.60	3.20	
5	3.20	17.20	7.50	10.80	51.00	207.00	53.10	41.20	14.80	8.40	4.40	3.20	
6	3.00	11.40	6.60	18.40	46.80	146.60	66.00	48.20	15.20	8.40	4.40	3.00	
7	3.00	9.60	51.70	21.00	45.40	113.50	77.20	47.50	14.80	8.10	4.00	2.80	
8	3.00	8.40	30.40	14.40	46.10	100.90	77.20	42.60	14.00	7.20	4.00	2.60	
9	3.00	8.10	26.80	12.40	38.40	98.20	96.40	39.10	13.60	6.90	3.80	2.60	
10	2.80	6.60	17.60	10.80	32.80	103.60	122.40	39.80	13.20	7.20	3.60	2.80	
11	2.60	6.30	12.80	9.90	27.40	100.00	222.40	36.40	13.20	7.20	3.60	2.60	
12	2.60	35.80	22.00	9.00	48.20	96.40	146.60	41.90	12.80	7.20	3.60	2.60	
13	2.40	12.00	28.60	8.40	170.40	86.50	106.30	39.10	12.00	7.20	3.60	2.40	
14	2.20	8.40	28.60	7.80	375.40	78.00	80.40	34.00	11.10	7.20	3.60	2.40	
15	2.20	16.00	100.90	7.20	202.80	138.90	70.00	31.00	11.40	6.90	3.60	2.40	
16	2.40	27.40	110.80	7.20	109.00	223.80	62.00	28.00	11.10	7.50	3.60	2.20	
17	2.40	19.60	69.20	8.40	92.80	152.10	55.90	26.20	11.10	7.20	3.60	2.20	
18	2.00	14.80	48.90	8.70	82.00	111.70	51.00	25.60	10.80	6.60	3.60	2.20	
19	2.00	12.80	33.40	9.00	82.90	99.10	49.60	24.50	10.50	6.30	3.60	2.20	
20	2.20	11.70	25.60	14.80	149.90	84.70	50.30	23.50	10.20	6.30	3.60	2.00	
21	2.00	12.40	20.50	44.70	324.00	79.60	78.80	22.50	10.20	6.30	3.40	2.00	
22	2.60	10.20	16.80	37.00	326.00	66.80	62.00	22.00	9.60	6.30	3.20	1.90	
23	4.80	13.20	16.80	35.20	250.40	62.80	50.30	21.00	9.60	6.00	3.00	1.90	
24	4.60	9.30	18.80	38.40	358.00	64.40	44.70	20.50	9.30	5.80	3.00	1.90	
25	6.30	8.10	17.60	32.20	257.60	93.70	40.50	19.60	9.30	5.40	3.00	1.90	
26	60.40	7.80	19.20	38.40	204.20	176.60	38.40	19.20	9.00	5.40	3.00	1.80	
27	16.80	7.20	19.20	76.40	171.60	272.00	37.00	18.40	8.40	5.40	3.00	1.70	
28	80.40	6.60	20.50	82.90	133.40	222.40	35.80	18.00	8.40	5.40	3.20	1.70	
29	24.50	6.30	16.80	107.20	102.70	147.70	33.40	18.00	8.70	5.40		1.90	
30	19.60	6.00	14.40	106.30	83.80	103.60	31.60	17.60	8.70	5.40		2.40	
31		6.90		74.80	158.70		31.00		8.70	5.40		4.00	
Total	279.20	378.40	835.30	897.30	4170.80	4516.40	2127.70	903.80	364.90	213.10	105.00	76.10	14868.00 CMSDAY
Mean	9.31	12.21	27.84	28.95	134.54	150.55	68.64	30.13	11.77	6.87	3.75	2.45	40.73 CMS
Max	80.40	35.80	110.80	107.20	375.40	497.60	222.40	48.20	16.80	9.30	5.20	4.00	497.60 CMS
Min	2.00	6.00	6.30	7.20	27.40	62.80	31.00	17.60	8.40	5.40	3.00	1.70	1.70 CMS
Runoff	24.123	32.694	72.170	77.527	360.357	390.217	183.833	78.088	31.527	18.412	9.072	6.575	1284.595 MCM

Momentary Peak 539.00 CMS, at 186.45 M (MSL), at 7.00 Hours, on Sep 1, 1996

Runoff Yield 7.53 Liters/Second/Square KM, Momentary Peak Yield 99.630 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

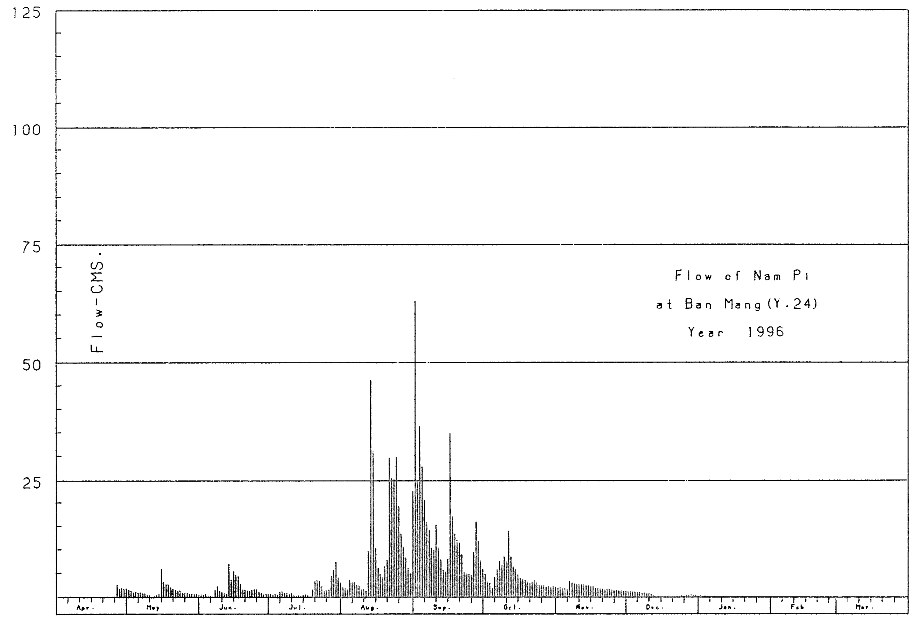
Nam Pi at Ban Mang , Phayao .(Y.24)

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	1977- 1986, 1996 to date.
Rated by Float	-
Rated by Current Meter	1977 - 1986, 1996 to date.
Stability of Channel Regimes	Stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.37	1.58	1.45	1.46	1.63	3.55	1.81	1.61	1.53	1.41	1.34	1.43	
2	1.37	1.54	1.45	1.46	1.60	2.58	1.71	1.61	1.53	1.40	1.35	1.43	
3	1.37	1.52	1.46	1.46	1.58	2.91	1.68	1.60	1.53	1.40	1.38	1.42	
4	1.37	1.52	1.43	1.46	1.73	2.68	1.60	1.59	1.52	1.41	1.42	1.41	
5	1.37	1.51	1.41	1.53	1.70	2.46	1.77	1.59	1.52	1.38	1.44	1.40	
6	1.37	1.50	1.40	1.52	1.69	2.30	1.87	1.71	1.51	1.35	1.44	1.42	
7	1.37	1.49	1.57	1.50	1.66	2.24	1.95	1.70	1.50	1.35	1.45	1.42	
8	1.37	1.47	1.63	1.49	1.64	2.08	1.91	1.67	1.49	1.40	1.45	1.41	
9	1.37	1.44	1.55	1.47	1.58	2.06	2.00	1.67	1.48	1.39	1.45	1.40	
10	1.36	1.42	1.51	1.48	1.57	2.28	1.95	1.67	1.48	1.37	1.45	1.40	
11	1.36	1.40	1.48	1.45	1.55	2.08	2.23	1.67	1.46	1.37	1.45	1.40	
12	1.36	1.41	1.48	1.42	2.05	1.97	2.00	1.66	1.42	1.37	1.43	1.40	
13	1.36	1.43	1.93	1.42	3.16	1.86	1.90	1.65	1.39	1.36	1.43	1.40	
14	1.36	1.46	1.73	1.42	2.77	1.84	1.86	1.64	1.39	1.35	1.44	1.40	
15	1.36	1.88	1.85	1.44	2.08	1.97	1.80	1.64	1.39	1.37	1.44	1.40	
16	1.36	1.70	1.80	1.44	1.89	2.87	1.76	1.64	1.39	1.38	1.44	1.40	
17	1.36	1.67	1.79	1.42	1.81	2.35	1.74	1.61	1.40	1.38	1.44	1.40	
18	1.36	1.66	1.67	1.41	1.78	2.21	1.73	1.60	1.40	1.39	1.45	1.40	
19	1.36	1.62	1.58	1.58	1.90	2.15	1.70	1.60	1.41	1.40	1.45	1.40	
20	1.35	1.58	1.57	1.72	1.97	2.13	1.69	1.58	1.40	1.39	1.46	1.40	
21	1.35	1.57	1.56	1.73	2.73	2.02	1.69	1.58	1.40	1.35	1.46	1.40	
22	1.35	1.55	1.55	1.72	2.61	1.83	1.73	1.58	1.40	1.32	1.45	1.40	
23	1.35	1.55	1.56	1.63	2.60	1.82	1.69	1.58	1.40	1.32	1.45	1.40	
24	1.35	1.51	1.58	1.55	2.74	1.81	1.66	1.56	1.41	1.32	1.44	1.39	
25	1.35	1.50	1.57	1.56	2.42	1.80	1.66	1.56	1.41	1.34	1.41	1.39	
26	1.67	1.49	1.53	1.58	2.21	2.04	1.65	1.55	1.43	1.35	1.41	1.38	
27	1.60	1.48	1.50	1.79	2.09	2.31	1.63	1.55	1.44	1.30	1.40	1.37	
28	1.60	1.47	1.44	1.86	1.99	2.14	1.63	1.54	1.44	1.30	1.40	1.37	
29	1.59	1.47	1.48	1.95	1.88	1.96	1.62	1.54	1.43	1.29		1.37	
30	1.59	1.46	1.47	1.76	1.82	1.87	1.63	1.53	1.42	1.30		1.39	
31		1.46		1.69	2.52		1.62		1.42	1.32		1.43	
Mean	1.40	1.53	1.57	1.56	2.03	2.21	1.77	1.61	1.44	1.36	1.43	1.40	
Max	1.67	1.88	1.93	1.95	3.16	3.55	2.23	1.71	1.53	1.41	1.46	1.43	3.55
Min	1.35	1.40	1.40	1.41	1.55	1.80	1.60	1.53	1.39	1.29	1.34	1.37	1.29

Annual Max Momentary Gage Height 3.75 M (A.D), at 6.00 Hours, on Sep 1, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.86 M (A.D)
Left Bank Elevation 7.61 M (A.D)
Right Bank Elevation 6.22 M (A.D), Drainage Area 597 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	1.77	0.65	0.72	2.36	63.20	4.98	2.09	1.29	0.37	0.03	0.07	
2	0.23	1.38	0.65	0.72	1.96	24.56	3.43	2.09	1.29	0.30	0.04	0.07	
3	0.23	1.19	0.72	0.72	1.77	36.40	3.02	1.96	1.29	0.30	0.05	0.07	
4	0.23	1.19	0.51	0.72	3.74	28.00	1.96	1.86	1.19	0.37	0.07	0.06	
5	0.23	1.10	0.37	1.29	3.28	20.80	4.34	1.86	1.19	0.26	0.08	0.06	
6	0.23	1.00	0.30	1.19	3.15	16.00	6.06	3.43	1.10	0.19	0.08	0.07	
7	0.23	0.93	1.67	1.00	2.75	14.44	7.70	3.28	1.00	0.19	0.09	0.07	
8	0.23	0.79	2.36	0.93	2.49	10.56	6.82	2.88	0.93	0.30	0.09	0.06	
9	0.23	0.58	1.48	0.79	1.77	10.12	8.80	2.88	0.86	0.28	0.09	0.06	
10	0.21	0.44	1.10	0.86	1.67	15.48	7.70	2.88	0.86	0.23	0.09	0.06	
11	0.21	0.30	0.86	0.65	1.48	10.56	14.18	2.88	0.72	0.23	0.09	0.06	
12	0.21	0.37	0.86	0.44	9.90	8.14	8.80	2.75	0.44	0.23	0.07	0.06	
13	0.21	0.51	7.26	0.44	46.40	5.88	6.60	2.62	0.28	0.21	0.07	0.06	
14	0.21	0.72	3.74	0.44	31.15	5.52	5.88	2.49	0.28	0.19	0.08	0.06	
15	0.21	6.24	5.70	0.58	10.56	8.14	4.80	2.49	0.28	0.23	0.08	0.06	
16	0.21	3.28	4.80	0.58	6.42	34.86	4.19	2.49	0.28	0.26	0.08	0.06	
17	0.21	2.88	4.65	0.44	4.98	17.50	3.89	2.09	0.30	0.26	0.08	0.06	
18	0.21	2.75	2.88	0.37	4.50	13.66	3.74	1.96	0.30	0.28	0.09	0.06	
19	0.21	2.22	1.77	1.77	6.60	12.20	3.28	1.96	0.37	0.30	0.09	0.06	
20	0.19	1.77	1.67	3.58	8.14	11.72	3.15	1.77	0.30	0.28	0.09	0.06	
21	0.19	1.67	1.58	3.74	29.75	9.24	3.15	1.77	0.30	0.19	0.09	0.06	
22	0.19	1.48	1.48	3.58	25.55	5.34	3.74	1.77	0.30	0.12	0.09	0.06	
23	0.19	1.48	1.58	2.36	25.20	5.16	3.15	1.77	0.30	0.12	0.09	0.06	
24	0.19	1.10	1.77	1.48	30.10	4.98	2.75	1.58	0.37	0.12	0.08	0.06	
25	0.19	1.00	1.67	1.58	19.60	4.80	2.75	1.58	0.37	0.17	0.06	0.06	
26	2.88	0.93	1.29	1.77	13.66	9.68	2.62	1.48	0.51	0.19	0.06	0.05	
27	1.96	0.86	1.00	4.65	10.78	16.30	2.36	1.48	0.58	0.08	0.06	0.05	
28	1.96	0.79	0.58	5.88	8.58	11.96	2.36	1.38	0.58	0.08	0.06	0.05	
29	1.86	0.79	0.86	7.70	6.24	7.92	2.22	1.38	0.51	0.07		0.05	
30	1.86	0.72	0.79	4.19	5.16	6.06	2.36	1.29	0.44	0.08		0.06	
31		0.72		3.15	22.64		2.22		0.44	0.02		0.07	
Total	15.83	42.95	56.60	58.31	352.33	449.18	143.00	64.19	19.25	6.50	2.12	1.88	1212.14 CMSDAY
Mean	0.53	1.39	1.89	1.88	11.37	14.97	4.61	2.14	0.62	0.21	0.08	0.06	3.32 CMS
Max	2.88	6.24	7.26	7.70	46.40	63.20	14.18	3.43	1.29	0.37	0.09	0.07	63.20 CMS
Min	0.19	0.30	0.30	0.37	1.48	4.80	1.96	1.29	0.28	0.02	0.03	0.05	0.02 CMS
Runoff	1.368	3.711	4.890	5.038	30.441	38.809	12.355	5.546	1.663	0.562	0.183	0.162	104.729 MCM

Momentary Peak 72.50 CMS, at 3.75 M (A.D), at 6.00 Hours, on Sep 1, 1996

Runoff Yield 5.56 Liters/Second/Square KM, Momentary Peak Yield 121.441 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

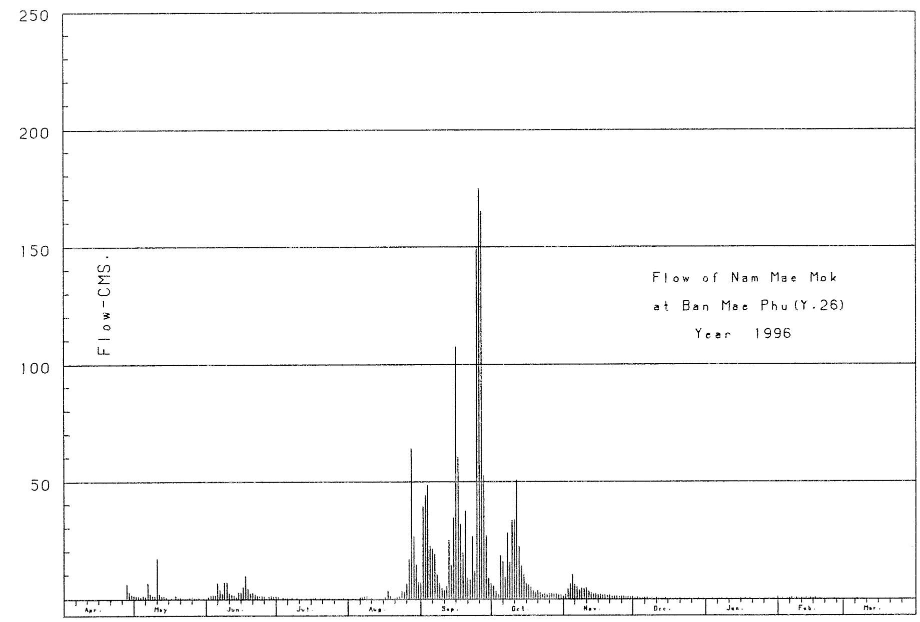
Nam Mae Mok at Ban Mae Phu, Lampang (Y.26)

Location	Lat. 17°-19'-45" N., Long. 99°-27'-42" E., on left bank downstream from Ban Mae Phu, 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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.89	0.80	0.82	0.70	2.61	1.26	0.95	0.83	0.72	0.81	0.71	
2	0.35	0.84	0.92	0.80	0.68	2.74	1.07	1.18	0.82	0.72	0.76	0.71	
3	0.34	0.84	0.92	0.78	0.67	2.86	0.98	1.30	0.82	0.71	0.76	0.70	
4	0.34	0.87	0.94	0.76	0.68	2.04	1.87	1.53	0.81	0.71	0.75	0.69	
5	0.33	0.85	1.34	0.76	0.83	1.98	1.78	1.30	0.80	0.71	0.79	0.68	
6	0.33	1.34	1.13	0.75	0.78	1.91	1.46	1.22	0.79	0.71	0.79	0.67	
7	0.32	0.97	1.02	0.75	0.87	1.53	2.24	1.14	0.79	0.71	0.79	0.66	
8	0.32	0.91	1.34	0.74	0.85	1.32	1.75	1.18	0.78	0.71	0.77	0.65	
9	0.31	0.85	1.36	0.74	0.76	1.19	2.41	1.19	0.78	0.71	0.79	0.63	
10	0.32	1.83	1.01	0.73	0.75	1.10	2.43	1.19	0.78	0.71	0.77	0.62	
11	0.30	1.00	0.97	0.73	0.74	1.26	2.92	1.10	0.77	0.71	0.78	0.61	
12	0.30	0.88	0.90	0.73	0.72	2.12	2.03	1.04	0.77	0.71	0.79	0.60	
13	0.30	0.84	0.84	0.72	0.62	1.71	1.70	1.00	0.76	0.71	0.80	0.59	
14	0.29	0.78	1.03	0.72	0.62	2.45	1.51	0.98	0.76	0.71	0.80	0.57	
15	0.29	0.77	1.06	0.75	0.63	4.04	1.33	0.96	0.75	0.72	0.77	0.57	
16	0.30	0.75	1.22	0.74	0.78	3.16	1.27	0.95	0.75	0.70	0.76	0.55	
17	0.30	0.74	1.50	0.74	1.12	2.37	1.23	0.93	0.74	0.70	0.74	0.52	
18	0.32	0.87	1.16	0.73	0.86	1.92	1.09	0.93	0.73	0.72	0.73	0.50	
19	0.32	0.81	1.03	0.73	0.72	2.55	1.06	0.92	0.73	0.69	0.71	0.49	
20	0.30	0.77	1.02	0.72	0.72	1.44	1.10	0.91	0.72	0.68	0.71	0.48	
21	0.30	0.75	0.97	0.71	0.75	1.41	1.03	0.90	0.72	0.68	0.71	0.47	
22	0.30	0.74	0.91	0.72	0.87	2.19	0.97	0.89	0.72	0.68	0.71	0.46	
23	0.29	0.73	0.85	0.70	1.10	1.60	0.96	0.87	0.73	0.68	0.71	0.45	
24	0.29	0.75	0.91	0.71	1.05	4.57	0.96	0.87	0.73	0.68	0.70	0.44	
25	0.29	0.84	0.84	0.69	1.32	4.84	1.00	0.85	0.73	0.68	0.70	0.43	
26	0.33	0.77	0.80	0.69	1.81	4.74	1.02	0.85	0.73	0.69	0.70	0.42	
27	1.31	0.78	0.87	0.70	3.25	2.98	0.98	0.85	0.72	0.67	0.70	0.43	
28	1.04	0.73	0.87	0.70	2.19	2.19	0.96	0.84	0.72	0.67	0.70	0.42	
29	0.96	0.75	0.86	0.71	1.71	1.45	0.95	0.84	0.72	0.66		0.41	
30	0.88	0.70	0.85	0.71	1.36	1.31	0.92	0.83	0.72	0.66		0.39	
31		0.72		0.70	1.33		0.90		0.72	0.83		0.39	
Mean	0.41	0.86	1.01	0.73	1.03	2.32	1.39	1.02	0.76	0.70	0.75	0.55	
Max	1.31	1.83	1.50	0.82	3.25	4.84	2.92	1.53	0.83	0.83	0.81	0.71	4.84
Min	0.29	0.70	0.80	0.69	0.62	1.10	0.90	0.83	0.72	0.66	0.70	0.39	0.29

Annual Max Momentary Gage Height 5.00 M (A.D), at 6.00 Hours, on Sep 26, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.15 M (A.D)
Left Bank Elevation 7.38 M (A.D)
Right Bank Elevation 7.64 M (A.D), Drainage Area 785 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.42	0.70	0.86	0.35	39.75	5.76	1.90	0.94	0.42	0.78	0.38	
2	0.00	1.02	1.66	0.70	0.28	44.23	3.18	4.55	0.86	0.42	0.56	0.38	
3	0.00	1.02	1.66	0.63	0.24	48.52	2.14	6.40	0.86	0.38	0.56	0.35	
4	0.00	1.26	1.82	0.56	0.28	22.90	18.48	10.67	0.78	0.38	0.52	0.31	
5	0.00	1.10	7.04	0.56	0.94	21.29	16.24	6.40	0.70	0.38	0.67	0.28	
6	0.00	7.04	3.92	0.52	0.63	19.50	9.23	5.12	0.67	0.38	0.67	0.24	
7	0.00	2.06	2.55	0.52	1.26	10.67	28.46	4.05	0.67	0.38	0.67	0.21	
8	0.00	1.58	7.04	0.49	1.10	6.72	15.55	4.55	0.63	0.38	0.59	0.17	
9	0.00	1.10	7.36	0.49	0.56	4.68	33.41	4.68	0.63	0.38	0.67	0.10	
10	0.00	17.47	2.42	0.46	0.52	3.55	34.04	4.68	0.63	0.38	0.59	0.07	
11	0.00	2.30	2.06	0.46	0.49	5.76	50.74	3.55	0.59	0.38	0.63	0.03	
12	0.00	1.34	1.50	0.46	0.42	25.10	22.62	2.80	0.59	0.38	0.67	0.00	
13	0.00	1.02	1.02	0.42	0.07	14.63	14.40	2.30	0.56	0.38	0.70	0.00	
14	0.00	0.63	2.67	0.42	0.07	34.68	10.26	2.14	0.56	0.38	0.70	0.00	
15	0.00	0.59	3.05	0.52	0.10	107.90	6.88	1.98	0.52	0.42	0.59	0.00	
16	0.00	0.52	5.12	0.49	0.63	60.42	5.92	1.90	0.52	0.35	0.56	0.00	
17	0.00	0.49	10.05	0.49	3.80	32.23	5.28	1.74	0.49	0.35	0.49	0.00	
18	0.00	1.26	4.30	0.46	1.18	19.76	3.43	1.74	0.46	0.42	0.46	0.00	
19	0.00	0.78	2.67	0.46	0.42	37.83	3.05	1.66	0.46	0.31	0.38	0.00	
20	0.00	0.59	2.55	0.42	0.42	8.82	3.55	1.58	0.42	0.28	0.38	0.00	
21	0.00	0.52	2.06	0.38	0.52	8.21	2.67	1.50	0.42	0.28	0.38	0.00	
22	0.00	0.49	1.58	0.42	1.26	27.02	2.06	1.42	0.42	0.28	0.38	0.00	
23	0.00	0.46	1.10	0.35	3.55	12.10	1.98	1.26	0.46	0.28	0.38	0.00	
24	0.00	0.52	1.58	0.38	2.92	150.09	1.98	1.26	0.46	0.28	0.35	0.00	
25	0.00	1.02	1.02	0.31	6.72	175.04	2.30	1.10	0.46	0.28	0.35	0.00	
26	0.00	0.59	0.70	0.31	16.95	165.65	2.55	1.10	0.46	0.31	0.35	0.00	
27	6.56	0.63	1.26	0.35	64.37	52.96	2.14	1.10	0.42	0.24	0.35	0.00	
28	2.80	0.46	1.26	0.35	27.02	27.02	1.98	1.02	0.42	0.24	0.35	0.00	
29	1.98	0.52	1.18	0.38	14.63	9.03	1.90	1.02	0.42	0.21		0.00	
30	1.34	0.35	1.10	0.38	7.36	6.56	1.66	0.94	0.42	0.21		0.00	
31		0.42		0.35	6.88		1.50		0.42	0.94		0.00	
Total	12.68	50.57	84.00	14.35	165.94	1202.62	315.34	86.11	17.32	11.08	14.73	2.52	1977.26 CMSDAY
Mean	0.42	1.63	2.80	0.46	5.35	40.09	10.17	2.87	0.56	0.36	0.53	0.08	5.42 CMS
Max	6.56	17.47	10.05	0.86	64.37	175.04	50.74	10.67	0.94	0.94	0.78	0.38	175.04 CMS
Min	0.00	0.35	0.70	0.31	0.07	3.55	1.50	0.94	0.42	0.21	0.35	0.00	0.00 CMS
Runoff	1.096	4.369	7.258	1.240	14.337	103.906	27.245	7.440	1.496	0.957	1.273	0.218	170.835 MCM

Momentary Peak 190.40 CMS, at 5.00 M (A.D), at 6.00 Hours, on Sep 26, 1996

Runoff Yield 6.90 Liters/Second/Square KM, Momentary Peak Yield 242.548 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

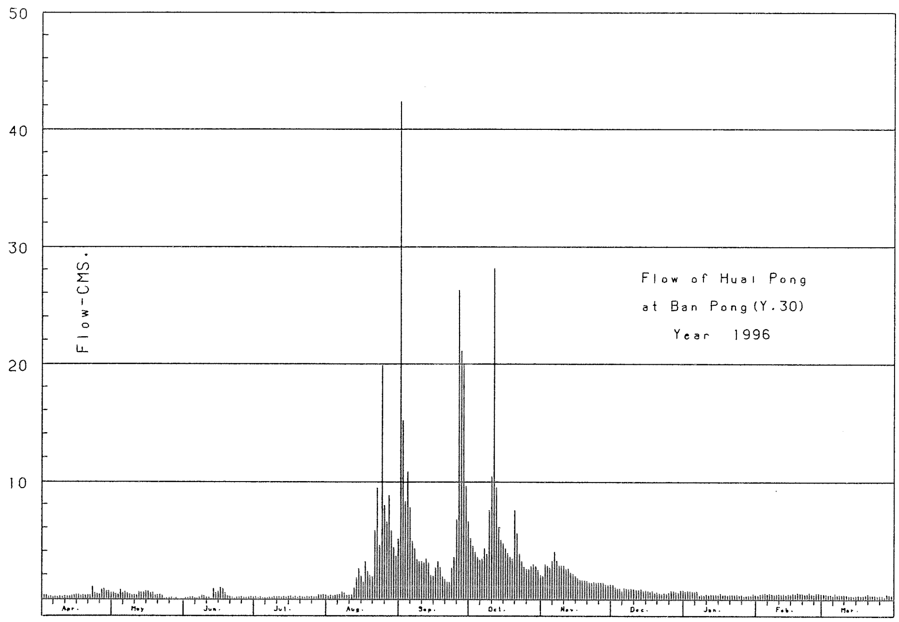
Huai Pong at Ban Pong, Lampang (Y.30)

Location	Lat. 18°-42′-59″ N., Long. 99°-57′-40″ E., on right bank at the bridge on highway, Ban 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	+6.620 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 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.67	0.49	0.52	0.57	3.12	1.45	0.96	0.81	0.68	0.59	0.63	
2	0.58	0.62	0.51	0.51	0.58	2.13	1.37	1.12	0.76	0.71	0.61	0.61	
3	0.55	0.62	0.51	0.52	0.58	1.74	1.29	1.11	0.75	0.69	0.64	0.61	
4	0.54	0.72	0.54	0.51	0.58	1.92	1.23	1.07	0.74	0.69	0.64	0.60	
5	0.54	0.66	0.51	0.51	0.62	1.70	1.19	1.18	0.71	0.69	0.63	0.59	
6	0.54	0.68	0.50	0.51	0.61	1.42	1.20	1.30	0.75	0.69	0.64	0.63	
7	0.54	0.66	0.51	0.51	0.68	1.34	1.34	1.17	0.75	0.59	0.63	0.60	
8	0.55	0.61	0.60	0.52	0.64	1.20	1.26	1.11	0.73	0.59	0.60	0.60	
9	0.55	0.60	0.56	0.53	0.59	1.16	1.68	1.10	0.75	0.59	0.63	0.61	
10	0.56	0.60	0.53	0.54	0.59	1.16	1.89	1.10	0.73	0.61	0.62	0.60	
11	0.56	0.60	0.50	0.52	0.59	1.15	2.64	1.06	0.73	0.58	0.62	0.61	
12	0.56	0.69	0.48	0.53	0.76	1.20	1.83	1.06	0.73	0.62	0.62	0.58	
13	0.58	0.66	0.75	0.53	0.92	1.15	1.56	1.01	0.73	0.60	0.61	0.56	
14	0.61	0.68	0.65	0.53	1.07	0.96	1.43	0.98	0.71	0.62	0.62	0.56	
15	0.61	0.70	0.70	0.56	0.96	0.96	1.40	0.96	0.71	0.61	0.62	0.56	
16	0.60	0.69	0.76	0.55	0.86	1.08	1.34	0.92	0.71	0.63	0.63	0.57	
17	0.59	0.66	0.75	0.53	1.16	1.16	1.27	0.90	0.69	0.61	0.63	0.57	
18	0.59	0.66	0.65	0.54	1.03	1.08	1.23	0.88	0.70	0.59	0.65	0.57	
19	0.59	0.60	0.58	0.53	0.96	0.95	1.20	0.89	0.66	0.60	0.65	0.61	
20	0.60	0.60	0.53	0.54	0.94	0.90	1.68	0.87	0.67	0.60	0.63	0.62	
21	0.59	0.60	0.51	0.54	1.53	0.85	1.50	0.85	0.65	0.60	0.62	0.60	
22	0.78	0.60	0.50	0.53	1.83	0.86	1.27	0.85	0.63	0.61	0.63	0.60	
23	0.65	0.49	0.51	0.54	1.37	1.08	1.17	0.85	0.64	0.61	0.65	0.57	
24	0.64	0.47	0.53	0.54	2.33	1.22	1.08	0.85	0.64	0.59	0.63	0.57	
25	0.61	0.51	0.52	0.54	1.72	1.62	1.05	0.84	0.65	0.59	0.60	0.57	
26	0.73	0.50	0.52	0.55	1.60	2.57	1.06	0.84	0.70	0.56	0.64	0.56	
27	0.74	0.49	0.52	0.55	1.78	2.38	1.10	0.85	0.71	0.58	0.65	0.54	
28	0.71	0.48	0.53	0.60	1.53	2.33	1.12	0.81	0.67	0.57	0.62	0.63	
29	0.70	0.45	0.53	0.61	1.35	1.84	1.10	0.81	0.67	0.58		0.59	
30	0.65	0.42	0.53	0.61	1.24	1.60	1.04	0.81	0.71	0.62		0.59	
31		0.39		0.59	1.44		0.96		0.72	0.59		0.58	
Mean	0.61	0.59	0.56	0.54	1.06	1.46	1.35	0.97	0.71	0.62	0.63	0.59	
Max	0.78	0.72	0.76	0.61	2.33	3.12	2.64	1.30	0.81	0.71	0.65	0.63	3.12
Min	0.54	0.39	0.48	0.51	0.57	0.85	0.96	0.81	0.63	0.56	0.59	0.54	0.39

Annual Max Momentary Gage Height 3.40 M (A.D), at 6.00 Hours, on Sep 1, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.01 M (A.D)
Left Bank Elevation 8.16 M (A.D)
Right Bank Elevation 9.20 M (A.D), Drainage Area 96 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.41	0.60	0.14	0.20	0.31	42.44	5.20	2.03	1.25	0.64	0.36	0.48		
2	0.33	0.44	0.17	0.17	0.33	15.19	4.59	2.97	1.00	0.75	0.41	0.41		
3	0.26	0.44	0.17	0.20	0.33	8.32	4.03	2.91	0.95	0.67	0.51	0.41		
4	0.24	0.80	0.24	0.17	0.33	10.94	3.65	2.67	0.90	0.67	0.51	0.38		
5	0.24	0.57	0.17	0.17	0.44	7.80	3.39	3.33	0.75	0.67	0.48	0.36		
6	0.24	0.64	0.15	0.17	0.41	4.96	3.45	4.10	0.95	0.67	0.51	0.48		
7	0.24	0.57	0.17	0.17	0.64	4.38	4.38	3.27	0.95	0.36	0.48	0.38		
8	0.26	0.41	0.38	0.20	0.51	3.45	3.84	2.91	0.85	0.36	0.38	0.38		
9	0.26	0.38	0.29	0.22	0.36	3.21	7.56	2.85	0.95	0.36	0.48	0.41		
10	0.29	0.38	0.22	0.24	0.36	3.21	10.45	2.85	0.85	0.41	0.44	0.38		
11	0.29	0.38	0.15	0.20	0.36	3.15	28.22	2.61	0.85	0.33	0.44	0.41		
12	0.29	0.67	0.12	0.22	1.00	3.45	9.55	2.61	0.85	0.44	0.44	0.33		
13	0.33	0.57	0.95	0.22	1.81	3.15	6.20	2.31	0.85	0.38	0.41	0.29		
14	0.41	0.64	0.54	0.22	2.67	2.03	5.04	2.14	0.75	0.44	0.44	0.29		
15	0.41	0.70	0.70	0.29	2.03	2.03	4.80	2.03	0.75	0.41	0.44	0.29		
16	0.38	0.67	1.00	0.26	1.50	2.73	4.38	1.81	0.75	0.48	0.48	0.31		
17	0.36	0.57	0.95	0.22	3.21	3.21	3.91	1.70	0.67	0.41	0.48	0.31		
18	0.36	0.57	0.54	0.24	2.43	2.73	3.65	1.60	0.70	0.36	0.54	0.31		
19	0.36	0.38	0.33	0.22	2.03	1.98	3.45	1.65	0.57	0.38	0.54	0.41		
20	0.38	0.38	0.22	0.24	1.92	1.70	7.56	1.55	0.60	0.38	0.48	0.44		
21	0.36	0.38	0.17	0.24	5.90	1.45	5.60	1.45	0.54	0.38	0.44	0.38		
22	1.10	0.38	0.15	0.22	9.55	1.50	3.91	1.45	0.48	0.41	0.48	0.38		
23	0.54	0.14	0.17	0.24	4.59	2.73	3.27	1.45	0.51	0.41	0.54	0.31		
24	0.51	0.11	0.22	0.24	19.95	3.58	2.73	1.45	0.51	0.36	0.48	0.31		
25	0.41	0.17	0.20	0.24	8.06	6.84	2.55	1.40	0.54	0.36	0.38	0.31		
26	0.85	0.15	0.20	0.26	6.60	26.29	2.61	1.40	0.70	0.29	0.51	0.29		
27	0.90	0.14	0.20	0.26	8.84	21.20	2.85	1.45	0.75	0.33	0.54	0.24		
28	0.75	0.12	0.22	0.38	5.90	19.95	2.97	1.25	0.60	0.31	0.44	0.48		
29	0.70	0.08	0.22	0.41	4.45	9.70	2.85	1.25	0.60	0.33		0.36		
30	0.54	0.05	0.22	0.41	3.71	6.60	2.49	1.25	0.75	0.44		0.36		
31		0.02		0.36	5.12		2.03		0.80	0.36		0.33		
Total	13.00	12.50	9.57	7.50	105.65	229.90	161.16	63.70	23.52	13.55	13.06	11.21	664.32	CMSDAY
Mean	0.43	0.40	0.32	0.24	3.41	7.66	5.20	2.12	0.76	0.44	0.47	0.36	1.82	CMS
Max	1.10	0.80	1.00	0.41	19.95	42.44	28.22	4.10	1.25	0.75	0.54	0.48	42.44	CMS
Min	0.24	0.02	0.12	0.17	0.31	1.45	2.03	1.25	0.48	0.29	0.36	0.24	0.02	CMS
Runoff	1.123	1.080	0.827	0.648	9.128	19.863	13.924	5.504	2.032	1.171	1.128	0.969	57.397	MCM

Momentary Peak 51.90 CMS, at 3.40 M (A.D), at 6.00 Hours, on Sep 1, 1996

Runoff Yield 18.96 Liters/Second/Square KM, Momentary Peak Yield 540.625 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

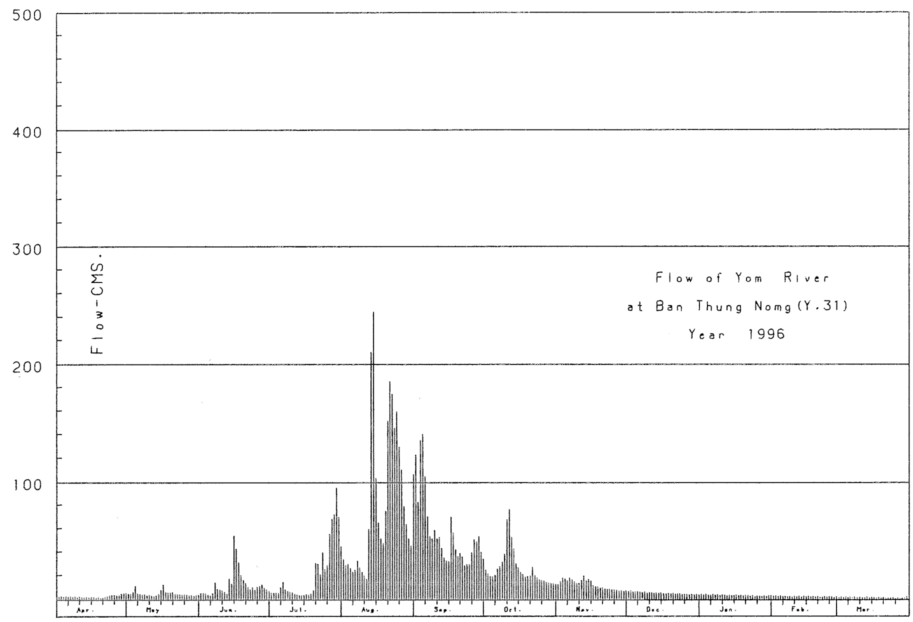
Yom River at Ban Thung Nong , Phayao .(Y.31)

Location	Lat. 18°-57′-27″ N., Long. 100°-16′-08″ E., on left bank downsstream of the bridge of Pong - Chiang Muan Road , Ban Thung Nong , Amphoe Chiang Muan , Phayao .
Drainage Area	1,976 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 5 meters from the top staff gage.
Elevation	+8.255 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	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Discharge measurements were made at about 200 meters downstream during the dry serson. Stage-discharge relation defined by 31 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	1.24	1.25	1.26	2.04	3.27	1.86	1.55	1.37	1.20	1.10	1.01	
2	1.08	1.20	1.28	1.28	1.93	2.79	1.78	1.63	1.36	1.19	1.08	1.01	
3	1.07	1.33	1.23	1.27	1.95	3.41	1.74	1.70	1.34	1.20	1.09	1.01	
4	1.07	1.52	1.20	1.28	1.89	3.46	1.72	1.69	1.32	1.18	1.09	1.01	
5	1.07	1.26	1.15	1.50	1.82	3.06	1.76	1.65	1.36	1.18	1.07	1.00	
6	1.06	1.20	1.24	1.62	1.85	2.63	1.88	1.70	1.32	1.19	1.06	1.00	
7	1.06	1.20	1.61	1.41	2.02	2.38	1.91	1.67	1.32	1.18	1.06	1.00	
8	1.05	1.19	1.43	1.37	1.89	2.34	2.00	1.62	1.32	1.17	1.05	0.99	
9	1.04	1.16	1.43	1.31	1.82	2.46	2.12	1.59	1.29	1.16	1.03	0.98	
10	1.04	1.15	1.37	1.28	1.74	2.35	2.59	1.58	1.29	1.16	1.06	0.97	
11	1.03	1.13	1.31	1.24	1.69	2.36	2.72	1.66	1.30	1.14	1.06	1.00	
12	1.02	1.10	1.25	1.16	2.47	2.21	2.37	1.74	1.29	1.14	1.07	1.00	
13	1.01	1.11	1.68	1.15	4.16	2.07	2.20	1.65	1.27	1.13	1.05	1.00	
14	1.01	1.24	1.58	1.12	4.47	2.01	1.97	1.67	1.29	1.13	1.06	0.98	
15	1.00	1.40	2.39	1.17	3.05	2.01	1.89	1.65	1.28	1.16	1.07	0.98	
16	0.99	1.55	2.20	1.19	2.55	2.63	1.82	1.53	1.26	1.15	1.07	0.96	
17	0.98	1.33	1.99	1.19	2.35	2.42	1.77	1.52	1.25	1.14	1.06	0.96	
18	0.98	1.27	1.75	1.22	2.28	2.20	1.73	1.50	1.25	1.14	1.05	0.96	
19	0.97	1.31	1.66	1.40	2.70	2.09	1.73	1.49	1.26	1.13	1.05	0.96	
20	0.97	1.30	1.58	1.98	3.58	2.13	1.75	1.48	1.25	1.14	1.05	0.95	
21	1.05	1.24	1.49	1.95	3.92	2.08	1.90	1.46	1.24	1.13	1.03	0.95	
22	1.06	1.23	1.43	1.78	3.82	1.94	1.76	1.45	1.25	1.11	1.03	0.95	
23	1.17	1.17	1.48	2.15	3.52	1.95	1.70	1.43	1.23	1.10	1.04	0.95	
24	1.14	1.19	1.42	1.86	3.66	1.96	1.67	1.43	1.22	1.10	1.04	0.94	
25	1.14	1.18	1.50	1.93	3.35	2.14	1.64	1.40	1.19	1.09	1.03	0.93	
26	1.15	1.15	1.51	2.41	3.13	2.33	1.63	1.40	1.19	1.10	1.02	0.91	
27	1.16	1.14	1.56	2.60	2.75	2.31	1.62	1.38	1.19	1.10	1.02	0.89	
28	1.23	1.13	1.49	2.65	2.53	2.38	1.59	1.37	1.19	1.09	1.02	0.89	
29	1.27	1.13	1.41	2.95	2.35	2.15	1.59	1.37	1.19	1.08		0.96	
30	1.26	1.12	1.37	2.62	2.24	2.04	1.57	1.37	1.19	1.11		1.03	
31		1.19		2.23	3.09		1.57		1.19	1.11		1.05	
Mean	1.07	1.23	1.51	1.66	2.66	2.39	1.86	1.54	1.27	1.14	1.05	0.97	
Max	1.27	1.55	2.39	2.95	4.47	3.46	2.72	1.74	1.37	1.20	1.10	1.05	4.47
Min	0.97	1.10	1.15	1.12	1.69	1.94	1.57	1.37	1.19	1.08	1.02	0.89	0.89

Annual Max Momentary Gage Height 4.98 M (A.D), at 4.00 Hours, on Aug 14, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -4.20 M (A.D)
Left Bank Elevation 10.64 M (A.D)
Right Bank Elevation 10.25 M (A.D), Drainage Area 1976 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.07	5.24	5.40	5.56	34.56	123.10	25.62	12.65	7.57	4.60	3.29	2.31	
2	3.07	4.60	5.88	5.88	28.97	83.02	21.94	15.77	7.37	4.47	3.07	2.31	
3	2.96	6.79	5.08	5.72	29.95	136.14	20.22	18.50	6.98	4.60	3.18	2.31	
4	2.96	11.48	4.60	5.88	27.03	140.84	19.36	18.11	6.59	4.34	3.18	2.31	
5	2.96	5.56	3.94	10.70	23.74	104.72	21.08	16.55	7.37	4.34	2.96	2.20	
6	2.85	4.60	5.24	15.38	25.15	71.10	26.56	18.50	6.59	4.47	2.85	2.20	
7	2.85	4.60	14.99	8.40	33.48	54.32	27.99	17.33	6.59	4.34	2.85	2.20	
8	2.74	4.47	8.91	7.57	27.03	51.76	32.40	15.38	6.59	4.21	2.74	2.12	
9	2.64	4.08	8.91	6.39	23.74	59.44	38.88	14.21	6.04	4.08	2.53	2.04	
10	2.64	3.94	7.57	5.88	20.22	52.40	68.30	13.82	6.04	4.08	2.85	1.96	
11	2.53	3.68	6.39	5.24	18.11	53.04	77.56	16.94	6.20	3.81	2.85	2.20	
12	2.42	3.29	5.40	4.08	60.08	43.80	53.68	20.22	6.04	3.81	2.96	2.20	
13	2.31	3.42	17.72	3.94	211.02	36.18	43.20	16.55	5.72	3.68	2.74	2.20	
14	2.31	5.24	13.82	3.55	245.52	32.94	30.93	17.33	6.04	3.68	2.85	2.04	
15	2.20	8.15	54.96	4.21	103.90	32.94	27.03	16.55	5.88	4.08	2.96	2.04	
16	2.12	12.65	43.20	4.47	65.50	71.10	23.74	11.87	5.56	3.94	2.96	1.88	
17	2.04	6.79	31.91	4.47	52.40	56.88	21.51	11.48	5.40	3.81	2.85	1.88	
18	2.04	5.72	20.65	4.92	48.00	43.20	19.79	10.70	5.40	3.81	2.74	1.88	
19	1.96	6.39	16.94	8.15	76.00	37.26	19.79	10.45	5.56	3.68	2.74	1.88	
20	1.96	6.20	13.82	31.42	152.12	39.42	20.65	10.19	5.40	3.81	2.74	1.80	
21	2.74	5.24	10.45	29.95	185.52	36.72	27.50	9.68	5.24	3.68	2.53	1.80	
22	2.85	5.08	8.91	21.94	175.24	29.46	21.08	9.43	5.40	3.42	2.53	1.80	
23	4.21	4.21	10.19	40.50	146.48	29.95	18.50	8.91	5.08	3.29	2.64	1.80	
24	3.81	4.47	8.66	25.62	159.76	30.44	17.33	8.91	4.92	3.29	2.64	1.71	
25	3.81	4.34	10.70	28.97	130.50	39.96	16.16	8.15	4.47	3.18	2.53	1.63	
26	3.94	3.94	11.09	56.24	110.64	51.12	15.77	8.15	4.47	3.29	2.42	1.47	
27	4.08	3.81	13.04	69.00	79.90	49.84	15.38	7.76	4.47	3.29	2.42	1.33	
28	5.08	3.68	10.45	72.50	64.10	54.32	14.21	7.57	4.47	3.18	2.42	1.33	
29	5.72	3.68	8.40	95.70	52.40	40.50	14.21	7.57	4.47	3.07		1.88	
30	5.56	3.55	7.57	70.40	45.60	34.56	13.43	7.57	4.47	3.42		2.53	
31		4.47		45.00	107.18		13.43		4.47	3.42		2.74	
Total	92.43	163.36	394.79	707.63	2563.84	1720.47	827.23	386.80	176.86	118.17	78.02	61.98	7291.58 CMSDAY
Mean	3.08	5.27	13.16	22.83	82.70	57.35	26.68	12.89	5.71	3.81	2.79	2.00	19.98 CMS
Max	5.72	12.65	54.96	95.70	245.52	140.84	77.56	20.22	7.57	4.60	3.29	2.74	245.52 CMS
Min	1.96	3.29	3.94	3.55	18.11	29.46	13.43	7.57	4.47	3.07	2.42	1.33	1.33 CMS
Runoff	7.986	14.114	34.110	61.139	221.516	148.649	71.473	33.420	15.281	10.210	6.741	5.355	629.992 MCM

Momentary Peak 307.44 CMS, at 4.98 M (A.D), at 4.00 Hours, on Aug 14, 1996

Runoff Yield 10.11 Liters/Second/Square KM, Momentary Peak Yield 155.587 Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

Khlong Tan at Ban Khlong Tan (1), Sukhothai (Y.33)

Location — Lat. 17°-10'-05" N., Long. 99°-51'-52" E., on left bank at the bridge on road, Amphoe Si Samrong, Sukhothai.

Drainage Area — Flood plain.

Type of Gage — Staff gage.

Zero Gage at Bottom — +45.82 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 20.30 meters from the top staff gage.

Elevation — +55.420 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 — 1990 to date.

Rating Operation

Period of Rating — 1990 to date.

Rated by Float — -

Rated by Current Meter — 1990 to date.

Stability of Channel Regimes — Fairly stable.

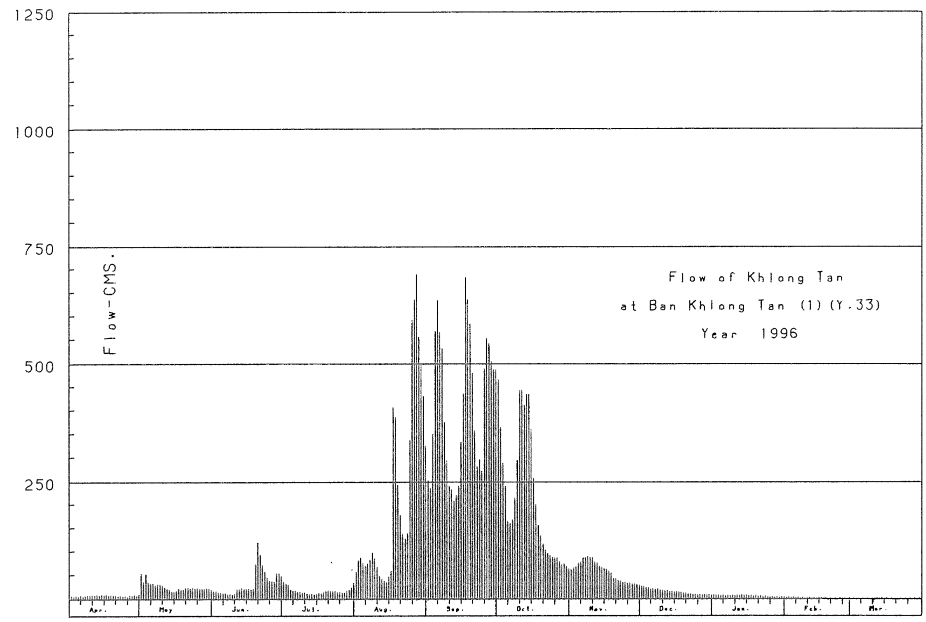
Overbank Flow Conditions — No Overbank flow.

General Description — Records good. Stage-discharge relation defined by 23 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.02	48.53	47.53	48.13	48.61	51.33	53.43	48.69	47.88	47.17	46.93	46.76	
2	47.02	48.12	47.51	48.04	49.04	51.14	52.49	48.75	47.83	47.16	46.92	46.75	
3	47.03	48.52	47.45	47.95	49.18	52.34	51.71	48.83	47.79	47.13	46.92	46.74	
4	47.04	48.13	47.41	47.66	48.93	54.38	51.20	48.93	47.76	47.12	46.92	46.74	
5	47.06	48.04	47.37	47.55	48.85	54.96	50.33	49.00	47.67	47.11	46.90	46.74	
6	47.06	48.00	47.31	47.52	48.91	54.35	50.26	49.14	47.69	47.10	46.88	46.75	
7	47.10	47.92	47.25	47.49	49.09	54.03	50.38	49.18	47.68	47.10	46.87	46.76	
8	47.12	47.96	47.23	47.45	49.35	52.59	50.92	49.20	47.66	47.11	46.86	46.76	
9	47.13	47.98	47.22	47.42	49.12	51.76	51.77	49.19	47.62	47.11	46.86	46.76	
10	47.14	47.90	47.26	47.37	48.79	51.20	53.24	49.16	47.57	47.12	46.84	46.76	
11	47.14	47.82	47.63	47.30	48.44	51.11	53.24	49.01	47.57	47.12	46.84	46.79	
12	47.17	47.70	47.68	47.28	48.26	50.86	52.94	48.95	47.54	47.13	46.84	46.80	
13	47.17	47.60	47.71	47.28	48.15	50.98	53.15	48.84	47.52	47.13	46.83	46.81	
14	47.17	47.52	47.69	47.26	48.11	51.20	53.16	48.78	47.50	47.14	46.83	46.82	
15	47.17	47.44	47.68	47.26	48.40	52.17	52.43	48.74	47.48	47.12	46.83	46.82	
16	47.16	47.50	47.67	47.33	48.63	53.17	51.38	48.70	47.47	47.10	46.83	46.80	
17	47.15	47.70	47.66	47.34	52.90	55.39	50.76	48.63	47.46	47.10	46.82	46.80	
18	47.13	47.58	47.66	47.41	52.68	54.96	50.23	48.54	47.43	47.08	46.80	46.78	
19	47.12	47.66	48.92	47.54	51.23	54.52	49.91	48.32	47.38	47.08	46.80	46.78	
20	47.09	47.72	49.69	47.53	50.49	53.55	49.66	48.29	47.35	47.06	46.79	46.75	
21	47.08	47.76	49.29	47.52	49.97	52.41	49.43	48.22	47.31	47.06	46.78	46.74	
22	47.06	47.72	48.87	47.51	49.83	51.64	49.33	48.17	47.25	47.06	46.78	46.73	
23	47.04	47.72	48.61	47.49	49.99	51.80	49.23	48.11	47.22	47.02	46.78	46.75	
24	47.01	47.72	48.32	47.45	52.23	51.53	49.19	48.10	47.21	46.99	46.77	46.75	
25	46.99	47.70	48.21	47.43	54.58	53.65	49.17	48.06	47.20	46.97	46.77	46.76	
26	47.11	47.70	48.15	47.42	54.96	54.23	49.15	48.03	47.19	46.95	46.76	46.76	
27	47.12	47.68	48.14	47.41	55.44	54.14	49.02	48.00	47.19	46.95	46.76	46.77	
28	47.13	47.65	48.52	47.53	54.27	53.78	48.88	47.97	47.18	46.94	46.76	46.80	
29	47.12	47.74	48.55	47.65	53.73	53.64	48.93	47.95	47.18	46.94		46.80	
30	47.19	47.68	48.40	47.74	53.12	53.62	48.81	47.91	47.17	46.94		46.81	
31		47.62		48.06	52.08		48.72		47.17	46.91		46.82	
Mean	47.10	47.81	47.95	47.53	50.56	52.88	50.72	48.58	47.46	47.07	46.83	46.77	
Max	47.19	48.53	49.69	48.13	55.44	55.39	53.43	49.20	47.88	47.17	46.93	46.82	55.44
Min	46.99	47.44	47.22	47.26	48.11	50.86	48.72	47.91	47.17	46.91	46.76	46.73	46.73

Annual Max Momentary Gage Height 55.62 M (MSL), at 18.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 45.82 M (MSL), River Bed 45.51 M (MSL)
Left Bank Elevation 56.16 M (MSL)
Right Bank Elevation 55.87 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.4	55.5	17.9	37.6	59.5	254.4	467.3	63.5	28.8	9.4	5.0	2.4	
2	6.4	37.2	17.3	34.4	82.2	236.3	367.5	66.5	27.1	9.2	4.8	2.3	
3	6.6	55.0	15.5	31.3	89.9	352.0	290.4	70.7	25.7	8.6	4.8	2.1	
4	6.8	37.6	14.3	21.8	76.2	571.8	242.0	76.2	24.8	8.4	4.8	2.1	
5	7.2	34.4	13.4	18.5	71.7	637.4	166.8	80.0	22.1	8.2	4.5	2.1	
6	7.2	33.0	12.2	17.6	75.1	568.5	161.5	87.7	22.7	8.0	4.2	2.3	
7	8.0	30.2	11.0	16.7	84.9	533.3	170.5	89.9	22.4	8.0	4.0	2.4	
8	8.4	31.6	10.6	15.5	100.0	377.9	215.8	91.0	21.8	8.2	3.9	2.4	
9	8.6	32.3	10.4	14.6	86.6	295.2	296.2	90.4	20.6	8.2	3.9	2.4	
10	8.8	29.5	11.2	13.4	68.5	242.0	446.4	88.8	19.1	8.4	3.6	2.4	
11	8.8	26.7	20.9	12.0	51.0	233.5	446.4	80.5	19.1	8.4	3.6	2.9	
12	9.4	23.0	22.4	11.6	42.7	210.4	414.7	77.3	18.2	8.6	3.6	3.0	
13	9.4	20.0	23.3	11.6	38.3	221.2	436.8	71.2	17.6	8.6	3.5	3.2	
14	9.4	17.6	22.7	11.2	36.9	242.0	437.8	68.0	17.0	8.8	3.5	3.3	
15	9.4	15.2	22.4	11.2	49.0	335.0	361.1	66.0	16.4	8.4	3.5	3.3	
16	9.2	17.0	22.1	12.6	60.5	438.8	259.1	64.0	16.1	8.0	3.5	3.0	
17	9.0	23.0	21.8	12.8	410.5	686.9	201.6	60.5	15.8	8.0	3.3	3.0	
18	8.6	19.4	21.8	14.3	387.4	637.4	159.2	56.0	14.9	7.6	3.0	2.7	
19	8.4	21.8	75.6	18.2	244.8	587.2	135.7	45.4	13.6	7.6	3.0	2.7	
20	7.8	23.6	120.8	17.9	179.2	480.5	118.9	44.0	13.0	7.2	2.9	2.3	
21	7.6	24.8	96.4	17.6	139.9	359.0	104.8	40.9	12.2	7.2	2.7	2.1	
22	7.2	23.6	72.8	17.3	130.1	283.8	98.8	38.9	11.0	7.2	2.7	2.0	
23	6.8	23.6	59.5	16.7	141.3	299.0	92.8	36.9	10.4	6.4	2.7	2.3	
24	6.2	23.6	45.4	15.5	341.0	273.3	90.4	36.5	10.2	5.9	2.6	2.3	
25	5.9	23.0	40.4	14.9	593.8	491.5	89.3	35.1	10.0	5.6	2.6	2.4	
26	8.2	23.0	38.3	14.6	637.4	555.3	88.3	34.0	9.8	5.3	2.4	2.4	
27	8.4	22.4	37.9	14.3	692.6	545.4	81.1	33.0	9.8	5.3	2.4	2.6	
28	8.6	21.5	55.0	17.9	559.7	505.8	73.4	32.0	9.6	5.1	2.4	3.0	
29	8.4	24.2	56.5	21.5	500.3	490.4	76.2	31.3	9.6	5.1		3.0	
30	9.8	22.4	49.0	24.2	433.6	488.2	69.6	29.9	9.4	5.1		3.2	
31		20.6		35.1	326.0		65.0		9.4	4.7		3.3	
Total	240.9	836.3	1058.8	564.4	6790.6	12433.4	6725.4	1786.1	508.2	228.7	97.4	80.9	31351.1 CMSDAY
Mean	8.0	27.0	35.3	18.2	219.1	414.4	216.9	59.5	16.4	7.4	3.5	2.6	85.9 CMS
Max	9.8	55.5	120.8	37.6	692.6	686.9	467.3	91.0	28.8	9.4	5.0	3.3	692.6 CMS
Min	5.9	15.2	10.4	11.2	36.9	210.4	65.0	29.9	9.4	4.7	2.4	2.0	2.0 CMS
Runoff	20.81	72.26	91.48	48.76	586.71	1074.25	581.07	154.32	43.91	19.76	8.42	6.99	2708.74 MCM

Momentary Peak 713.30 CMS, at 55.62 M (MSL), at 18.00 Hours, on Sep 17, 1996

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

YOM RIVER BASIN

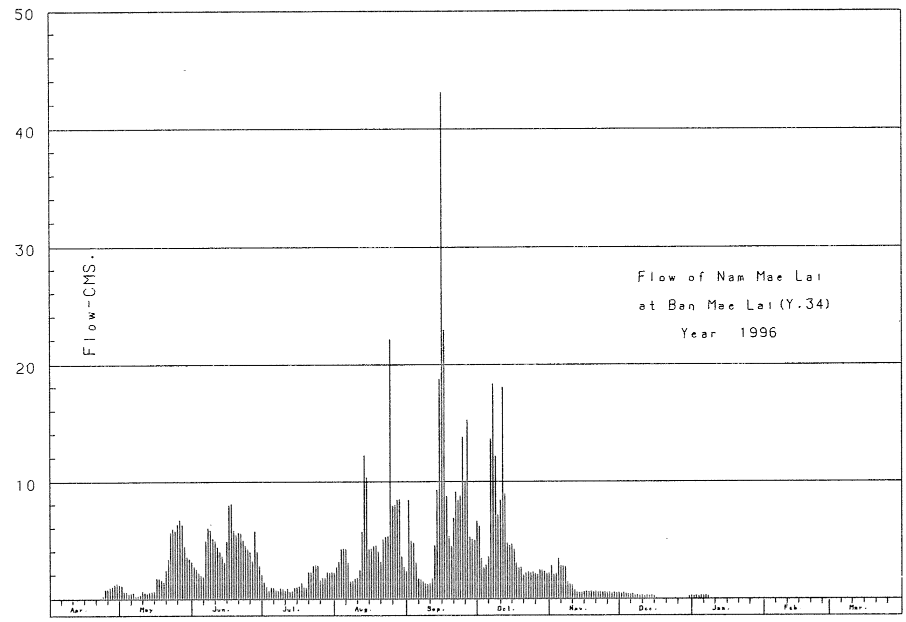
Nam Mae Lai at Ban Mae Lai , Phrae .(Y.34)

Location	Lat. 18°-13′-07″ N., Long. 100°-12′-35″ E., on left bank at the bridge on highway , Ban Mae Lai , Amphoe Muang , Phrae .
Drainage Area	331 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	+4.464 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. There were different discharge measurement during elevation 1.40 - 2.00 meters. No discharge measurement and there exist a temporary weir at about 300 meters downstream. Stage-discharge relation definded by 33 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.62	0.85	0.67	0.84	1.30	1.15	0.86	0.97	0.80	0.52	0.45	
2	0.43	0.49	0.82	0.59	0.89	1.05	0.92	0.76	1.00	0.80	0.46	0.45	
3	0.43	0.50	0.79	0.52	1.00	1.04	0.84	0.78	0.96	0.78	0.47	0.48	
4	0.45	0.44	0.75	0.58	1.00	0.88	0.86	0.92	0.93	0.77	0.43	0.48	
5	0.45	0.46	0.74	0.58	1.00	0.72	0.94	0.86	0.92	0.82	0.40	0.47	
6	0.46	0.46	1.05	0.52	0.88	0.70	1.60	0.85	0.91	0.82	0.40	0.45	
7	0.46	0.38	1.14	0.52	0.68	0.68	1.82	0.85	0.84	0.80	0.40	0.44	
8	0.44	0.38	1.12	0.56	0.68	0.64	1.52	0.67	0.82	0.42	0.40	0.47	
9	0.44	0.42	1.07	0.56	0.72	0.64	1.22	0.64	0.82	0.42	0.40	0.47	
10	0.45	0.50	1.05	0.52	0.72	0.64	1.30	0.62	0.82	0.44	0.40	0.48	
11	0.46	0.48	1.01	0.55	0.82	0.72	1.81	0.54	0.78	0.46	0.40	0.50	
12	0.47	0.46	0.98	0.50	1.11	1.02	1.33	0.48	0.81	0.46	0.45	0.50	
13	0.47	0.47	0.94	0.50	1.52	1.35	1.04	1.04	0.82	0.46	0.47	0.50	
14	0.47	0.50	0.89	0.58	1.42	1.84	1.02	0.99	0.82	0.42	0.50	0.49	
15	0.47	0.50	1.05	0.58	1.00	2.72	1.03	1.08	0.82	0.44	0.48	0.48	
16	0.48	0.72	1.27	0.60	1.00	2.01	1.00	1.09	0.58	0.44	0.48	0.47	
17	0.48	0.71	1.28	0.66	1.02	1.32	0.88	1.10	0.42	0.46	0.48	0.47	
18	0.49	0.70	1.12	0.58	1.02	1.08	0.84	1.08	0.42	0.46	0.48	0.48	
19	0.49	0.66	1.09	0.58	0.98	1.02	0.84	1.08	0.42	0.46	0.48	0.49	
20	0.49	0.81	1.11	0.79	0.89	1.20	0.76	1.08	0.42	0.48	0.48	0.39	
21	0.50	0.92	1.10	0.79	1.06	1.34	0.78	1.06	0.46	0.48	0.40	0.40	
22	0.50	1.11	1.06	0.86	1.08	1.30	0.80	1.06	0.43	0.46	0.40	0.40	
23	0.39	1.13	1.02	0.86	1.08	1.32	0.78	1.06	0.42	0.48	0.40	0.38	
24	0.54	1.12	1.00	0.86	1.98	1.61	0.80	1.06	0.48	0.48	0.42	0.35	
25	0.54	1.16	0.97	0.70	1.27	1.40	0.78	1.04	0.40	0.48	0.42	0.35	
26	0.58	1.19	0.90	0.72	1.27	1.68	0.76	1.03	0.40	0.48	0.42	0.35	
27	0.59	1.16	1.12	0.73	1.30	1.08	0.82	1.02	0.40	0.48	0.44	0.35	
28	0.63	1.02	0.98	0.79	1.30	1.06	0.81	1.02	0.40	0.50	0.45	0.36	
29	0.64	0.93	0.86	0.79	0.94	1.06	0.80	1.02	0.46	0.52		0.36	
30	0.62	0.92	0.76	0.79	0.84	1.18	0.78	1.02	0.78	0.50		0.35	
31		0.89		0.79	0.80		0.78		0.78	0.55		0.34	
Mean	0.49	0.72	1.00	0.65	1.04	1.19	1.01	0.93	0.67	0.54	0.44	0.43	
Max	0.64	1.19	1.28	0.86	1.98	2.72	1.82	1.10	1.00	0.82	0.52	0.50	2.72
Min	0.39	0.38	0.74	0.50	0.68	0.64	0.76	0.48	0.40	0.42	0.40	0.34	0.34

Annual Max Momentary Gage Height 3.02 M (A.D), at 18.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.40 M (A.D)
Left Bank Elevation 3.88 M (A.D)
Right Bank Elevation 3.43 M (A.D), Drainage Area 331 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	1.19	2.80	1.48	2.71	8.50	6.25	2.89	0.50	0.30	0.09	0.06	
2	0.05	0.62	2.53	1.04	3.16	4.95	3.46	2.07	0.54	0.30	0.06	0.06	
3	0.05	0.65	2.28	0.74	4.30	4.82	2.71	2.21	0.49	0.28	0.07	0.07	
4	0.06	0.44	2.00	0.99	4.30	3.07	2.89	3.46	0.46	0.27	0.05	0.07	
5	0.06	0.51	1.93	0.99	4.30	1.79	3.67	2.89	0.44	0.32	0.04	0.07	
6	0.06	0.51	4.95	0.74	3.07	1.65	13.70	2.80	0.43	0.32	0.04	0.06	
7	0.06	0.26	6.12	0.74	1.54	1.54	18.36	2.80	0.35	0.30	0.04	0.06	
8	0.06	0.26	5.86	0.91	1.54	1.31	12.26	1.48	0.32	0.05	0.04	0.07	
9	0.06	0.37	5.21	0.91	1.79	1.31	7.22	1.31	0.32	0.05	0.04	0.07	
10	0.06	0.65	4.95	0.74	1.79	1.31	8.50	1.19	0.32	0.06	0.04	0.07	
11	0.06	0.58	4.43	0.87	2.53	1.79	18.13	0.82	0.28	0.06	0.04	0.08	
12	0.07	0.51	4.09	0.65	5.73	4.56	8.98	0.58	0.31	0.06	0.06	0.08	
13	0.07	0.54	3.67	0.65	12.26	9.30	4.82	0.59	0.32	0.06	0.07	0.08	
14	0.07	0.65	3.16	0.99	10.46	18.82	4.56	0.53	0.32	0.05	0.08	0.08	
15	0.07	0.65	4.95	0.99	4.30	43.16	4.69	0.64	0.32	0.06	0.07	0.07	
16	0.07	1.79	8.02	1.08	4.30	22.96	4.30	0.65	0.12	0.06	0.07	0.07	
17	0.07	1.72	8.18	1.42	4.56	8.82	3.07	0.66	0.05	0.06	0.07	0.07	
18	0.08	1.65	5.86	0.99	4.56	5.34	2.71	0.64	0.05	0.06	0.07	0.07	
19	0.08	1.42	5.47	0.99	4.09	4.56	2.71	0.64	0.05	0.06	0.07	0.08	
20	0.08	2.44	5.73	2.28	3.16	6.90	2.07	0.64	0.05	0.07	0.07	0.04	
21	0.08	3.46	5.60	2.28	5.08	9.14	2.21	0.61	0.06	0.07	0.04	0.04	
22	0.08	5.73	5.08	2.89	5.34	8.50	2.35	0.61	0.05	0.06	0.04	0.04	
23	0.28	5.99	4.56	2.89	5.34	8.82	2.21	0.61	0.05	0.07	0.04	0.04	
24	0.82	5.86	4.30	2.89	22.20	13.90	2.35	0.61	0.07	0.07	0.05	0.03	
25	0.82	6.38	3.99	1.65	8.02	10.10	2.21	0.59	0.04	0.07	0.05	0.03	
26	0.99	6.77	3.25	1.79	8.02	15.30	2.07	0.58	0.04	0.07	0.05	0.03	
27	1.04	6.38	5.86	1.86	8.50	5.34	2.53	0.56	0.04	0.07	0.06	0.03	
28	1.25	4.56	4.09	2.28	8.50	5.08	2.44	0.56	0.04	0.08	0.06	0.03	
29	1.31	3.57	2.89	2.28	3.67	5.08	2.35	0.56	0.06	0.09		0.03	
30	1.19	3.46	2.07	2.28	2.71	6.64	2.21	0.56	0.28	0.08		0.03	
31		3.16		2.28	2.35		2.21		0.28	0.11		0.03	
Total	9.16	72.73	133.88	45.56	164.18	244.36	160.20	35.34	7.05	3.69	1.57	1.74	879.46 CMSDAY
Mean	0.31	2.35	4.46	1.47	5.30	8.15	5.17	1.18	0.23	0.12	0.06	0.06	2.41 CMS
Max	1.31	6.77	8.18	2.89	22.20	43.16	18.36	3.46	0.54	0.32	0.09	0.08	43.16 CMS
Min	0.05	0.26	1.93	0.65	1.54	1.31	2.07	0.53	0.04	0.05	0.04	0.03	0.03 CMS
Runoff	0.791	6.284	11.567	3.936	14.185	21.113	13.841	3.053	0.609	0.319	0.136	0.150	75.985 MCM

Momentary Peak 53.42 CMS, at 3.02 M (A.D), at 18.00 Hours, on Sep 15, 1996

Runoff Yield 7.27 Liters/Second/Square KM, Momentary Peak Yield 161.268 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

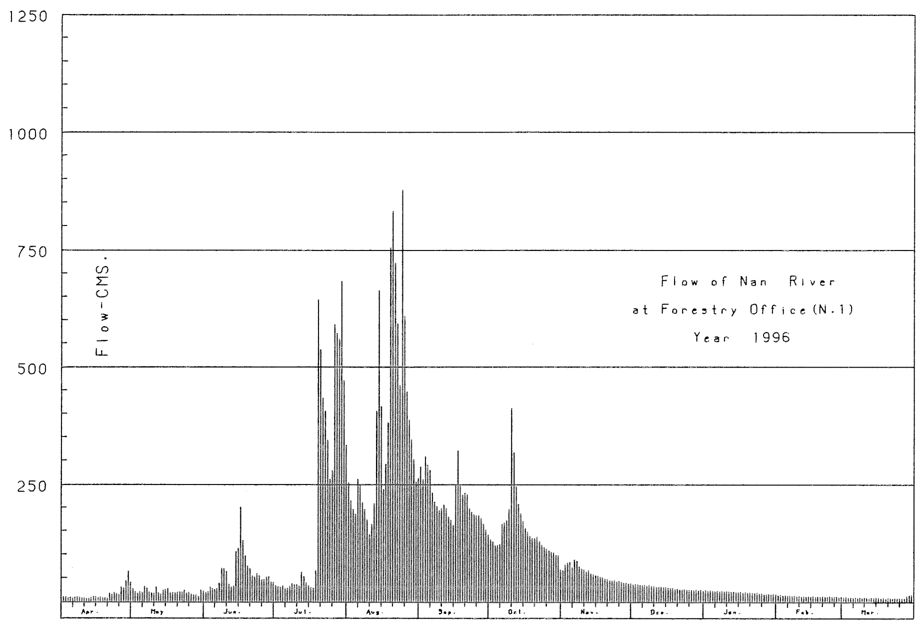
Nan River at Forestry Office, Nan (N.1)

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	+199.868 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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 73 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.83	193.10	192.99	193.18	194.77	194.78	193.81	193.50	193.20	193.05	192.90	192.81	
2	192.80	193.00	193.00	193.14	194.53	194.64	193.77	193.60	193.20	193.04	192.89	192.81	
3	192.79	192.96	193.14	193.14	194.42	194.90	193.71	193.65	193.20	193.04	192.88	192.80	
4	192.78	193.00	193.09	193.16	194.35	194.80	193.70	193.65	193.18	193.04	192.88	192.79	
5	192.78	192.99	193.07	193.10	194.81	194.75	193.73	193.56	193.18	193.03	192.87	192.78	
6	192.78	193.14	193.09	193.10	194.72	194.47	194.03	193.69	193.18	193.03	192.86	192.78	
7	192.83	193.11	193.23	193.16	194.51	194.33	194.04	193.68	193.17	193.03	192.86	192.78	
8	192.79	192.98	193.55	193.21	194.41	194.28	194.08	193.57	193.17	193.03	192.85	192.78	
9	192.77	192.97	193.53	193.19	194.28	194.21	194.23	193.54	193.16	193.02	192.85	192.78	
10	192.74	192.94	193.47	193.18	194.08	194.24	195.40	193.51	193.15	193.02	192.84	192.78	
11	192.74	193.14	193.21	193.16	194.02	194.30	194.95	193.48	193.14	193.01	192.84	192.78	
12	192.74	192.97	193.12	193.46	194.31	194.24	194.56	193.50	193.14	193.01	192.84	192.78	
13	192.78	192.91	193.16	193.38	195.37	194.13	194.30	193.44	193.13	193.00	192.84	192.77	
14	192.84	193.06	193.82	193.23	196.48	194.08	194.18	193.42	193.13	193.00	192.84	192.77	
15	192.81	193.06	193.88	193.17	195.42	194.01	194.06	193.40	193.12	193.00	192.84	192.77	
16	192.78	193.08	194.45	193.11	194.52	194.59	193.97	193.38	193.11	192.99	192.84	192.76	
17	192.79	192.98	193.99	193.11	194.81	194.97	193.91	193.37	193.11	192.98	192.83	192.76	
18	192.77	192.96	193.76	193.50	195.26	194.58	193.86	193.35	193.10	192.98	192.83	192.75	
19	192.75	192.98	193.58	196.78	196.83	194.44	193.82	193.33	193.08	192.98	192.83	192.75	
20	192.75	192.98	193.54	196.27	197.13	194.46	193.83	193.31	193.08	192.97	192.83	192.76	
21	192.96	193.01	193.38	195.74	196.71	194.44	193.84	193.30	193.08	192.97	192.83	192.76	
22	192.90	193.00	193.37	195.60	196.19	194.25	193.78	193.29	193.07	192.97	192.83	192.75	
23	192.99	193.04	193.43	195.27	195.62	194.19	193.71	193.29	193.06	192.97	192.83	192.75	
24	192.92	192.97	193.40	194.80	197.30	194.16	193.68	193.27	193.06	192.95	192.82	192.75	
25	192.91	192.97	193.30	194.91	196.25	194.14	193.64	193.27	193.05	192.94	192.82	192.74	
26	193.12	192.92	193.30	196.52	195.56	194.14	193.62	193.25	193.05	192.93	192.82	192.73	
27	193.11	192.90	193.37	196.43	195.29	194.11	193.60	193.24	193.05	192.93	192.81	192.75	
28	193.29	192.88	193.36	196.38	195.08	194.03	193.57	193.22	193.06	192.92	192.81	192.85	
29	193.47	192.85	193.26	196.96	194.87	193.94	193.54	193.22	193.05	192.92		192.90	
30	193.24	193.05	193.24	195.94	194.62	193.87	193.52	193.21	193.05	192.92		192.89	
31		193.02		195.20	194.65		193.51		193.04	192.91		192.85	
Mean	192.89	193.00	193.40	194.34	195.20	194.35	193.93	193.42	193.11	192.99	192.84	192.78	
Max	193.47	193.14	194.45	196.96	197.30	194.97	195.40	193.69	193.20	193.05	192.90	192.90	197.30
Min	192.74	192.85	192.99	193.10	194.02	193.87	193.51	193.21	193.04	192.91	192.81	192.73	192.73

Annual Max Momentary Gage Height 197.52 M (MSL), at 13.00 Hours, on Aug 24, 1996
Zero Gage at Bottom Elevation 192.17 M (MSL), River Bed 189.27 M (MSL)
Left Bank Elevation 199.64 M (MSL)
Right Bank Elevation 199.42 M (MSL), Drainage Area 4609 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.2	29.7	21.4	36.7	256.9	288.2	134.0	68.0	38.5	25.8	16.0	11.0	
2	10.5	22.0	22.0	33.2	216.8	261.6	128.8	79.0	38.5	25.1	15.5	11.0	
3	10.1	19.6	33.2	33.2	199.2	311.0	121.4	85.1	38.5	25.1	14.9	10.5	
4	9.8	22.0	28.9	35.0	188.0	292.0	120.2	85.1	36.7	25.1	14.9	10.1	
5	9.8	21.4	27.4	29.7	263.8	282.5	123.9	74.6	36.7	24.3	14.3	9.8	
6	9.8	33.2	28.9	29.7	248.4	234.3	167.4	90.0	36.7	24.3	13.8	9.8	
7	12.2	30.6	41.2	35.0	213.6	213.0	168.9	88.8	35.9	24.3	13.8	9.8	
8	10.1	20.8	73.5	39.4	197.6	205.4	175.0	75.7	35.9	24.3	13.3	9.8	
9	9.5	20.2	71.3	37.6	176.8	194.8	197.8	72.4	35.0	23.5	13.3	9.8	
10	8.4	18.4	64.9	36.7	144.9	199.3	414.0	69.1	34.1	23.5	12.7	9.8	
11	8.4	33.2	39.4	35.0	165.9	208.4	320.5	65.9	33.2	22.8	12.7	9.8	
12	8.4	20.2	31.5	63.8	210.0	199.3	247.9	68.0	33.2	22.8	12.7	9.8	
13	9.8	16.6	35.0	55.5	407.4	182.6	208.4	61.7	32.3	22.0	12.7	9.5	
14	12.7	26.6	107.0	41.2	666.0	175.0	190.2	59.6	32.3	22.0	12.7	9.5	
15	11.0	26.6	115.2	35.9	418.4	164.4	172.0	57.5	31.5	22.0	12.7	9.5	
16	9.8	28.2	204.0	30.6	241.8	252.5	158.3	55.5	30.6	21.4	12.7	9.1	
17	10.1	20.8	131.1	30.6	293.9	324.3	149.2	54.5	30.6	20.8	12.2	9.1	
18	9.5	19.6	99.0	68.0	383.6	251.0	141.6	52.5	29.7	20.8	12.2	8.8	
19	8.8	20.8	76.8	646.8	755.8	229.7	135.5	50.5	28.2	20.8	12.2	8.8	
20	8.8	20.8	72.4	540.0	833.8	232.7	137.1	48.5	28.2	20.2	12.2	9.1	
21	19.6	22.8	55.5	435.6	724.6	229.7	138.6	47.5	28.2	20.2	12.2	9.1	
22	16.0	22.0	54.5	409.0	595.6	200.8	130.0	46.6	27.4	20.2	12.2	8.8	
23	21.4	25.1	60.6	346.6	462.4	191.7	121.4	46.6	26.6	20.2	12.2	8.8	
24	17.2	20.2	57.5	262.0	880.0	187.2	117.8	44.8	26.6	19.0	11.6	8.8	
25	16.6	20.2	47.5	281.8	610.0	184.1	112.9	44.8	25.8	18.4	11.6	8.4	
26	31.5	17.2	47.5	592.2	449.2	184.1	110.4	43.0	25.8	17.8	11.6	8.0	
27	30.6	16.0	54.5	573.3	389.9	179.6	108.0	42.1	25.8	17.8	11.0	8.8	
28	46.6	14.9	53.5	562.8	346.0	167.4	104.6	40.3	26.6	17.2	11.0	13.3	
29	64.9	13.3	43.9	684.6	305.3	153.8	101.1	40.3	25.8	17.2		16.0	
30	42.1	25.8	42.1	474.0	257.8	143.1	98.8	39.4	25.8	17.2		15.5	
31		23.5		334.0	263.5		69.1		25.1	16.6		13.3	
Total	506.2	692.3	1841.2	6849.5	11766.9	6523.5	4824.8	1797.4	965.8	662.7	360.9	313.2	37104.4 CMSDAY
Mean	16.9	22.3	61.4	221.0	379.6	217.5	155.6	59.9	31.2	21.4	12.9	10.1	101.7 CMS
Max	64.9	33.2	204.0	684.6	880.0	324.3	414.0	90.0	38.5	25.8	16.0	16.0	880.0 CMS
Min	8.4	13.3	21.4	29.7	144.9	143.1	69.1	39.4	25.1	16.6	11.0	8.0	8.0 CMS
Runoff	43.74	59.81	159.08	591.80	1016.66	563.63	416.86	155.30	83.45	57.26	31.18	27.06	3205.82 MCM

Momentary Peak 941.60 CMS, at 197.52 M (MSL), at 13.00 Hours, on Aug 24, 1996

Runoff Yield 22.06 Liters/Second/Square KM, Momentary Peak Yield 204.296 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

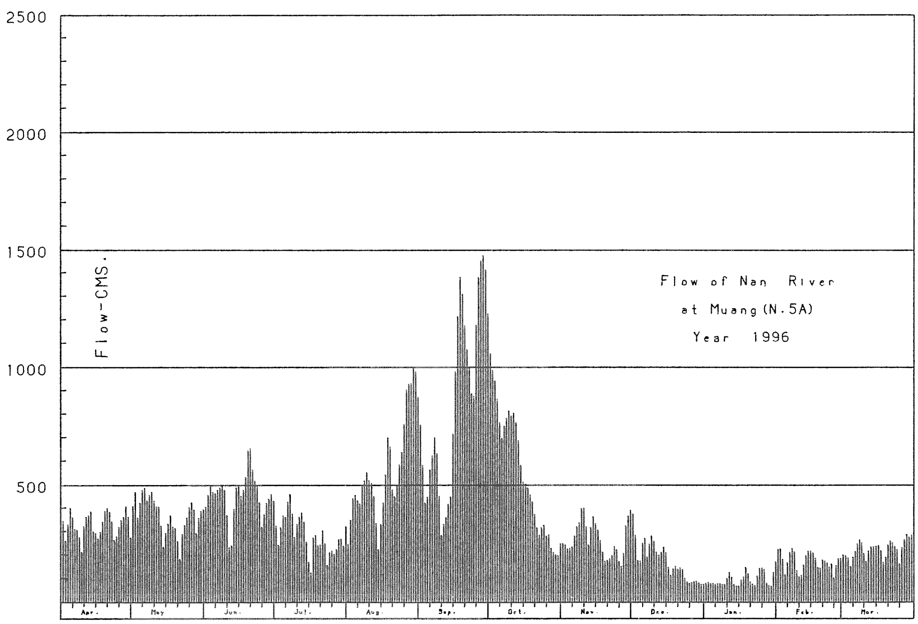
Nan River at Muang, Phitsanulok (N.5A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 23 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.55	39.10	39.09	38.35	37.52	41.54	43.14	37.60	38.83	35.43	37.29	37.00	
2	37.71	39.61	39.51	37.51	38.58	40.44	42.77	37.50	37.95	35.48	37.33	36.99	
3	38.40	38.68	39.84	38.29	39.40	39.24	42.56	37.32	36.75	35.44	36.78	36.85	
4	39.06	39.24	39.60	38.76	39.49	39.44	42.15	37.34	36.70	35.42	35.96	36.44	
5	38.71	39.67	39.58	38.72	39.33	40.32	41.59	37.42	37.61	35.37	36.61	36.89	
6	38.21	39.73	39.66	39.26	39.19	40.71	41.20	37.91	37.81	35.39	37.15	37.20	
7	38.19	39.32	39.75	39.54	39.79	41.20	41.51	38.33	36.91	35.43	37.33	37.56	
8	37.85	39.51	39.81	38.83	39.97	40.79	41.69	38.48	37.54	35.34	37.17	37.76	
9	37.17	39.62	39.68	37.86	40.24	39.46	41.88	39.04	37.93	35.37	36.17	37.61	
10	38.33	39.30	38.79	38.42	39.97	37.95	41.76	39.05	37.70	35.74	35.84	37.09	
11	38.71	39.09	37.37	38.72	39.89	38.42	41.82	38.30	37.14	36.07	35.91	36.67	
12	38.78	39.10	37.49	38.88	39.47	38.71	41.60	37.52	36.99	35.77	36.51	37.20	
13	38.92	38.37	39.01	38.53	38.45	39.18	41.12	38.29	37.16	35.36	36.98	37.42	
14	38.12	37.42	39.74	37.67	37.29	39.45	40.45	38.74	37.41	35.23	37.18	37.42	
15	38.03	38.04	39.79	36.67	38.43	41.31	39.92	38.45	37.11	35.27	37.20	37.45	
16	37.82	38.43	39.47	36.04	39.23	42.74	39.86	38.19	36.37	35.60	37.12	37.50	
17	38.08	38.77	39.66	37.85	40.16	43.88	39.75	37.72	35.94	35.81	36.84	37.23	
18	38.50	38.30	40.09	37.94	41.22	44.61	39.51	37.17	36.30	36.38	36.38	36.63	
19	38.95	38.27	40.86	37.50	40.96	44.30	39.28	36.69	36.43	36.03	36.31	36.90	
20	39.04	37.68	40.91	37.51	39.67	43.69	38.81	36.75	36.28	35.50	36.77	37.51	
21	38.91	36.81	40.31	38.14	39.46	43.22	38.29	36.80	36.34	35.37	36.70	37.72	
22	38.54	37.99	39.97	37.59	39.84	42.82	37.95	36.98	36.25	35.31	36.62	37.62	
23	37.75	38.39	39.79	36.49	40.46	42.28	38.29	37.43	35.73	35.88	36.38	37.45	
24	37.89	38.68	39.25	37.11	40.82	42.21	38.37	37.28	35.53	36.30	36.55	37.26	
25	38.29	39.07	38.31	37.20	41.53	43.71	37.93	36.69	35.44	36.35	35.78	36.57	
26	38.57	39.26	38.80	37.03	42.36	44.60	37.96	36.41	35.46	36.24	36.44	37.36	
27	38.73	39.00	39.21	37.30	42.49	44.91	37.36	37.08	35.55	35.45	36.82	37.76	
28	39.11	38.04	39.38	37.78	42.49	45.00	37.13	38.36	35.54	35.28	36.81	37.96	
29	38.70	38.67	39.52	37.78	42.82	44.75	37.02	38.74	35.47	35.26		37.87	
30	37.86	38.93	39.31	37.46	42.74	43.92	36.96	38.95	35.35	36.08		37.96	
31		39.00		38.33	42.20		37.57		35.35	36.68		37.86	
Mean	38.38	38.74	39.45	37.91	40.18	41.83	39.91	37.75	36.61	35.67	36.68	37.31	
Max	39.11	39.73	40.91	39.54	42.82	45.00	43.14	39.05	38.83	36.68	37.33	37.96	45.00
Min	37.17	36.81	37.37	36.04	37.29	37.95	36.96	36.41	35.35	35.23	35.78	36.44	35.23

Annual Max Momentary Gage Height 45.01 M (MSL), at 15.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 34.50 M (MSL), River Bed 32.29 M (MSL)
Left Bank Elevation 45.26 M (MSL)
Right Bank Elevation 45.43 M (MSL), Drainage Area 25286 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	347.7	410.0	408.8	327.0	246.2	759.5	1063.0	253.0	378.5	82.1	226.7	202.0	
2	263.5	472.4	459.7	245.3	350.9	586.0	989.0	244.5	287.0	85.6	230.1	201.2	
3	332.0	361.8	503.4	321.0	446.0	426.8	947.0	229.2	180.8	82.8	183.3	189.3	
4	405.2	426.8	471.0	370.6	457.3	451.0	867.8	230.9	176.5	81.4	119.2	155.2	
5	365.1	480.4	468.5	366.2	437.6	568.8	768.2	237.7	254.0	77.9	168.9	192.7	
6	313.0	488.6	479.1	429.2	420.8	626.5	703.0	283.0	273.0	79.3	214.8	219.0	
7	311.0	436.4	491.3	463.5	496.7	703.0	754.2	325.0	194.4	82.1	230.1	249.6	
8	277.0	459.7	499.4	378.5	521.0	638.5	785.7	340.4	247.9	75.8	216.4	268.2	
9	216.4	473.7	481.8	278.0	557.6	453.5	819.0	402.8	285.0	77.9	134.7	254.0	
10	325.0	434.0	373.9	334.1	521.0	287.0	798.0	404.0	262.5	103.8	110.8	209.7	
11	365.1	408.8	233.5	366.2	510.1	334.1	808.5	322.0	213.9	127.2	115.7	173.9	
12	372.8	410.0	243.7	384.2	454.8	365.1	770.0	246.2	201.2	105.9	160.8	219.0	
13	388.8	329.0	399.2	345.6	337.2	419.6	690.2	321.0	215.6	77.2	200.3	237.7	
14	304.0	237.7	489.9	259.6	226.7	452.2	587.5	368.4	236.9	68.1	217.3	237.7	
15	295.0	296.0	496.7	173.9	335.1	720.6	514.2	337.2	211.4	70.9	219.0	240.3	
16	274.0	335.1	454.8	125.0	425.6	983.0	506.1	311.0	149.7	94.0	212.2	244.5	
17	300.0	371.7	479.1	277.0	546.6	1221.0	491.3	264.4	117.8	108.7	188.4	221.6	
18	342.5	322.0	537.1	286.0	706.2	1386.3	459.7	216.4	144.5	150.5	150.5	170.6	
19	392.3	319.0	649.3	244.5	664.8	1315.5	431.6	175.7	154.4	124.2	145.3	193.5	
20	402.8	260.6	657.1	245.3	480.4	1179.3	376.2	180.8	143.0	87.0	182.5	245.3	
21	387.7	185.9	567.4	306.0	453.5	1079.2	321.0	185.0	147.5	77.9	176.5	264.4	
22	346.7	291.0	521.0	252.2	503.4	999.0	287.0	200.3	140.7	73.7	169.7	254.9	
23	267.3	331.0	496.7	159.2	589.0	892.2	321.0	238.6	103.1	113.6	150.5	240.3	
24	281.0	361.8	428.0	211.4	643.1	878.9	329.0	225.8	89.1	144.5	164.0	224.1	
25	321.0	406.4	323.0	219.0	757.7	1183.6	285.0	175.7	82.8	148.2	106.6	165.6	
26	349.9	429.2	375.0	204.6	907.4	1384.0	288.0	152.8	84.2	140.0	155.2	232.6	
27	367.3	398.0	423.2	227.5	933.0	1455.9	232.6	208.8	90.5	83.5	186.7	268.2	
28	411.2	296.0	443.6	270.1	933.0	1477.0	213.1	328.0	89.8	71.6	185.9	288.0	
29	364.0	360.7	461.0	270.1	999.0	1418.5	203.7	368.4	84.9	70.2		279.0	
30	278.0	390.0	435.2	241.1	983.0	1230.0	198.6	392.3	76.5	128.0		288.0	
31		398.0		325.0	877.0		250.5		76.5	174.8		278.0	
Total	9967.3	11581.7	13751.4	8906.9	17721.7	25875.6	17059.7	8169.3	5393.6	3068.4	4922.1	7108.1	133525.8 CMSDAY
Mean	332.2	373.6	458.4	287.3	571.7	862.5	550.3	272.3	174.0	99.0	175.8	229.3	365.8 CMS
Max	411.2	488.6	657.1	463.5	999.0	1477.0	1063.0	404.0	378.5	174.8	230.1	288.0	1477.0 CMS
Min	216.4	185.9	233.5	125.0	226.7	287.0	198.6	152.8	76.5	68.1	106.6	155.2	68.1 CMS
Runoff	861.17	1000.66	1188.12	769.56	1531.16	2235.65	1473.96	705.83	466.01	265.11	425.27	614.14	11536.63 MCM

Momentary Peak 1479.35 CMS, at 45.01 M (MSL), at 15.00 Hours, on Sep 28, 1996
Runoff Yield 14.47 Liters/Second/Square KM, Momentary Peak Yield 58.505 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

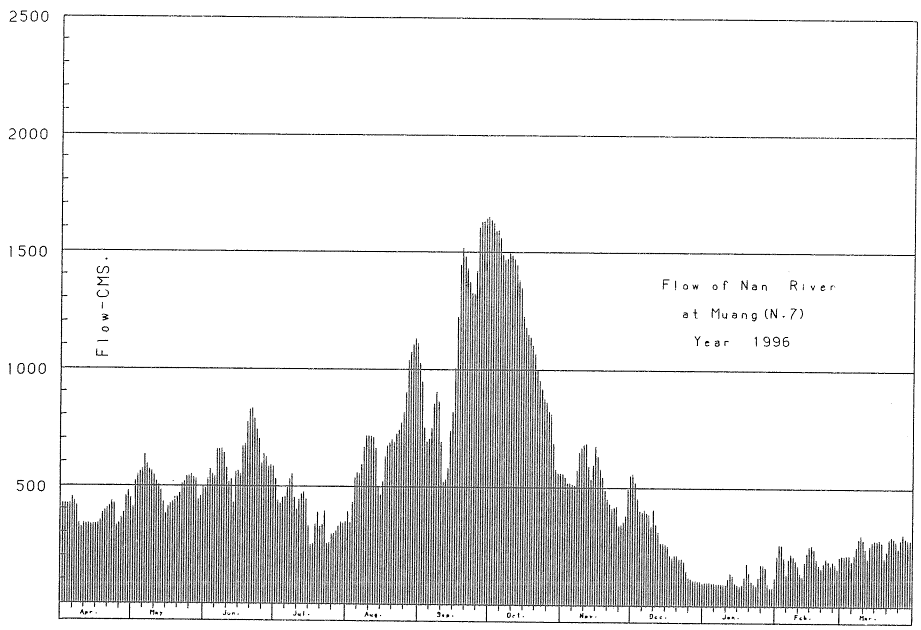
Nan River at Muang, Phichit (N.7)

Location	Lat. 16°-26′-31″ N., Long. 100°-21′-11″ E., on right bank infront of Phichit Phithaya Khom 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 Khom 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	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation + 36.85 m. (M.S.L.), and is included.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 23 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.75	30.63	31.30	31.62	30.49	35.09	37.20	31.80	31.80	27.41	28.74	28.75	
2	30.73	31.53	31.59	30.86	30.08	34.60	37.16	31.67	31.53	27.44	29.23	28.75	
3	30.74	31.72	31.90	30.78	30.81	33.23	37.08	31.50	31.00	27.43	29.23	28.76	
4	30.75	31.84	31.76	30.96	31.65	32.82	37.08	31.48	30.54	27.41	28.64	28.75	
5	30.98	31.91	31.66	31.01	31.80	32.89	37.00	31.44	30.51	27.40	27.87	28.51	
6	30.83	32.39	32.57	31.30	31.77	33.24	36.81	31.43	30.58	27.38	28.61	28.79	
7	30.69	32.07	32.56	31.60	32.08	33.95	36.74	31.93	30.49	27.36	28.81	29.14	
8	30.01	31.91	32.57	31.75	32.64	34.29	36.76	32.48	30.41	27.36	28.72	29.50	
9	29.88	31.84	32.43	30.98	32.98	34.03	36.84	32.65	29.96	27.32	28.51	29.62	
10	30.02	31.72	31.96	30.57	33.00	32.80	36.80	32.73	30.62	27.32	28.30	29.46	
11	30.00	31.50	31.48	30.90	32.97	31.53	36.75	32.78	30.06	27.60	27.91	29.06	
12	30.00	31.40	31.59	31.10	32.95	31.59	36.69	32.03	29.74	27.93	27.77	28.65	
13	29.98	31.20	30.80	31.15	32.59	31.98	36.50	31.63	29.30	27.78	28.43	29.19	
14	29.96	30.80	31.81	30.91	31.37	33.13	36.41	32.08	29.27	27.41	28.88	29.37	
15	29.99	30.39	31.86	29.94	31.08	33.72	36.00	32.69	29.25	27.30	29.15	29.42	
16	30.00	30.66	31.74	29.13	31.52	34.97	35.83	32.39	29.14	27.21	29.20	29.42	
17	30.14	30.74	32.66	29.21	32.35	35.99	35.69	31.97	28.77	27.32	29.05	29.44	
18	30.40	30.82	32.72	29.99	32.67	36.69	35.65	31.69	28.63	27.70	28.57	29.35	
19	30.52	30.96	33.39	30.47	32.78	36.88	35.48	31.27	28.77	28.39	28.30	28.64	
20	30.58	30.99	33.76	29.89	32.87	36.79	35.30	30.95	28.74	27.91	28.16	28.96	
21	30.68	31.09	33.81	30.00	32.81	36.64	34.93	30.81	28.61	27.50	28.41	29.47	
22	30.82	31.44	33.51	30.49	33.03	36.48	34.62	30.62	28.59	27.34	28.61	29.59	
23	30.77	31.48	33.18	29.22	33.18	36.33	34.40	30.68	28.48	27.27	28.50	29.50	
24	29.92	31.67	32.88	29.23	33.38	36.33	34.10	30.69	28.00	27.69	28.31	29.38	
25	30.03	31.70	32.11	29.61	33.71	36.61	34.02	30.00	27.70	28.34	28.46	29.10	
26	30.24	31.73	32.42	29.62	34.27	37.11	33.75	30.02	27.60	28.29	28.34	29.45	
27	30.41	31.65	32.31	29.74	35.17	37.18	33.66	30.15	27.55	28.20	28.15	29.67	
28	31.02	31.58	32.01	29.92	35.33	37.18	32.79	30.36	27.51	27.34	28.71	29.53	
29	31.18	30.90	32.04	30.10	35.50	37.22	31.94	31.29	27.50	27.15		29.43	
30	30.94	31.01	32.00	30.03	35.61	37.23	31.83	31.75	27.47	27.11		29.45	
31		31.31		30.10	35.52		31.80		27.41	27.67		29.96	
Mean	30.43	31.37	32.28	30.39	32.84	34.95	35.41	31.50	29.21	27.56	28.56	29.23	
Max	31.18	32.39	33.81	31.75	35.61	37.23	37.20	32.78	31.80	28.39	29.23	29.96	37.23
Min	29.88	30.39	30.80	29.13	30.08	31.53	31.80	30.00	27.41	27.11	27.77	28.51	27.11

Annual Max Momentary Gage Height 37.24 M (MSL), at 6.00 Hours, on Sep 30, 1996
Zero Gage at Bottom Elevation 26.00 M (MSL), River Bed 24.85 M (MSL)
Left Bank Elevation 36.85 M (MSL)
Right Bank Elevation 37.33 M (MSL), Drainage Area 29153 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	428.0	413.6	496.5	537.6	397.3	1029.8	1641.0	561.0	561.0	99.8	215.3	216.2	
2	425.6	525.9	533.7	441.5	350.8	952.0	1625.8	544.1	525.9	102.2	262.0	216.2	
3	426.8	550.6	574.0	431.6	435.3	753.2	1595.4	522.0	459.0	101.4	262.0	217.2	
4	428.0	566.2	555.8	454.0	541.5	695.8	1595.4	519.4	403.1	99.8	205.8	216.2	
5	456.5	575.3	542.8	460.3	561.0	705.6	1565.0	514.2	399.6	99.0	137.0	193.9	
6	437.8	637.7	661.9	496.5	557.1	754.6	1493.8	512.9	407.7	97.5	203.0	220.1	
7	420.8	596.1	660.6	535.0	597.4	855.8	1468.4	577.9	397.3	96.0	221.9	253.3	
8	343.1	575.3	661.9	554.5	671.4	905.5	1475.6	649.8	388.1	96.0	213.4	289.5	
9	329.4	566.2	643.0	456.5	718.2	867.3	1505.0	672.8	337.8	93.0	193.9	302.1	
10	344.2	550.6	581.8	406.5	721.0	693.0	1490.0	683.5	412.4	93.0	175.0	285.3	
11	342.0	522.0	519.4	446.5	716.8	525.9	1472.0	690.3	348.6	115.0	140.4	245.7	
12	342.0	509.0	533.7	471.5	714.0	533.7	1450.4	590.9	314.7	142.1	128.6	206.7	
13	339.9	484.0	434.0	477.8	664.6	584.4	1383.5	538.9	269.0	129.4	186.7	258.0	
14	337.8	434.0	562.3	447.8	505.3	739.2	1352.4	597.4	266.0	99.8	228.6	276.0	
15	340.9	385.8	568.8	335.7	469.0	822.4	1228.0	678.1	264.0	91.5	254.2	281.1	
16	342.0	417.2	553.2	252.3	524.6	1009.2	1184.7	637.7	253.3	84.7	259.0	281.1	
17	357.4	426.8	674.1	260.0	632.5	1225.5	1151.7	583.1	218.1	93.0	244.7	283.2	
18	387.0	436.5	682.2	340.9	675.4	1450.4	1142.5	546.7	204.8	123.0	199.3	274.0	
19	400.8	454.0	775.6	395.0	690.3	1520.0	1105.8	492.8	218.1	183.1	175.0	205.8	
20	407.7	457.8	828.2	330.4	702.8	1486.4	1069.0	452.8	215.3	140.4	162.4	236.2	
21	419.6	470.3	835.5	342.0	694.4	1432.4	1002.8	435.3	203.0	107.0	184.9	286.3	
22	436.5	514.2	792.4	397.3	725.2	1376.6	955.0	412.4	201.1	94.5	203.0	299.0	
23	430.4	519.4	746.2	261.0	746.2	1326.6	922.0	419.6	191.2	89.3	193.0	289.5	
24	333.6	544.1	704.2	262.0	774.2	1326.6	877.5	420.8	148.0	122.2	175.9	277.0	
25	345.3	548.0	601.3	301.1	821.0	1421.6	865.9	342.0	123.0	178.6	189.4	249.5	
26	368.6	551.9	641.7	302.1	902.5	1606.8	826.8	344.2	115.0	174.1	178.6	284.3	
27	388.1	541.5	627.3	314.7	1043.7	1633.4	813.7	358.5	111.0	166.0	161.5	307.4	
28	461.5	532.4	588.3	333.6	1075.0	1633.4	691.7	382.4	107.8	94.5	212.4	292.7	
29	481.5	446.5	592.2	353.0	1110.0	1649.2	579.2	495.3	107.0	80.5		282.2	
30	451.5	460.3	587.0	345.3	1133.3	1653.3	564.9	554.5	104.6	77.7		284.3	
31		497.7		353.0	1114.2		561.0		99.8	120.6		337.8	
Total	11754.3	15710.9	18759.6	12097.0	21986.0	33169.6	36655.9	15731.3	8375.3	3484.7	5566.9	8147.8	191439.3 CMSDAY
Mean	391.8	506.8	625.3	390.2	709.2	1105.7	1182.4	524.4	270.2	112.4	198.8	262.8	524.5 CMS
Max	481.5	637.7	835.5	554.5	1133.3	1653.3	1641.0	690.3	561.0	183.1	262.0	337.8	1653.3 CMS
Min	329.4	385.8	434.0	252.3	350.8	525.9	561.0	342.0	99.8	77.7	128.6	193.9	77.7 CMS
Runoff	1015.57	1357.42	1620.83	1045.18	1899.59	2865.85	3167.07	1359.18	723.63	301.08	480.98	703.97	16540.36 MCM

Momentary Peak 1657.40 CMS, at 37.24 M (MSL), at 6.00 Hours, on Sep 30, 1996

Runoff Yield 17.99 Liters/Second/Square KM, Momentary Peak Yield 56.852 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

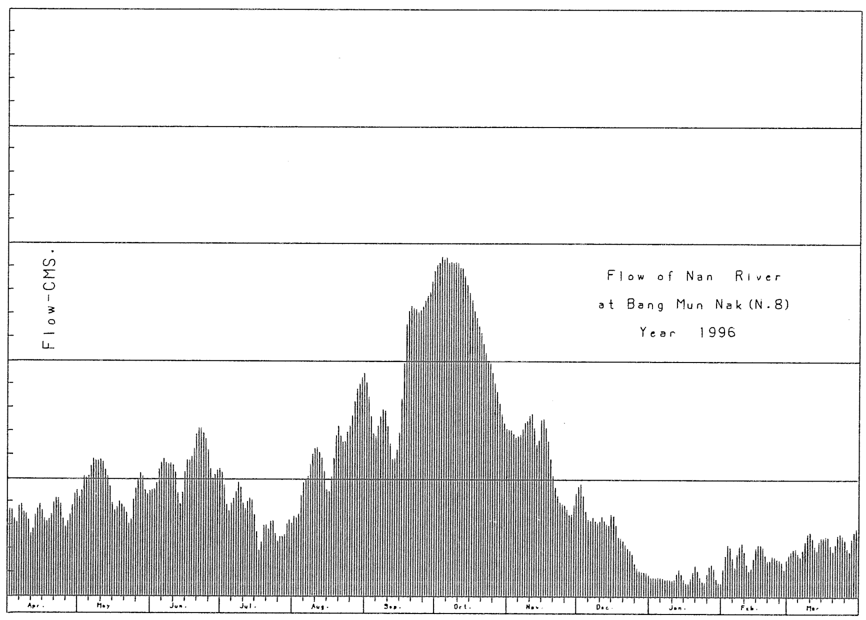
Nan River at Bang Mun Nak, Phichit (N.8)

Location	Lat. 16°-01′-50″ N., Long. 100°-22′-53″ E., on left bank opposite to Wat Bang Mun Nak, Amphoe Bang Mun Nak, Phichit.
Drainage Area	32,878 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+19.80 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 89 meters upstream from the top staff gage.
Elevation	+30.523 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1951 to date.
Rating Operation	
Period of Rating	1965 - 1967, 1973 - 1979, 1991 to date.
Rated by Float	-
Rated by Current Meter	1951 - 1980, 1991 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +30.28 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 21 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.97	25.47	25.75	26.48	24.69	29.54	30.69	28.10	27.23	21.72	22.17	22.95	
2	24.96	25.75	25.81	25.95	24.64	29.19	30.70	28.07	27.29	21.68	22.92	23.07	
3	24.57	26.31	26.03	25.16	24.78	28.59	30.72	27.95	26.93	21.70	23.41	23.22	
4	24.44	26.27	26.60	24.93	25.56	27.96	30.71	27.79	26.26	21.71	23.32	23.22	
5	25.09	26.31	26.83	25.24	26.05	27.84	30.72	27.86	25.65	21.71	22.78	23.00	
6	25.20	26.72	27.00	25.41	26.21	28.22	30.70	27.90	25.62	21.66	22.31	22.86	
7	24.88	26.98	26.82	25.71	26.31	28.56	30.70	28.13	25.83	21.60	22.97	23.19	
8	24.79	26.93	26.80	26.07	26.80	28.82	30.70	28.34	25.56	21.59	23.34	23.56	
9	24.55	26.90	26.81	25.89	27.16	28.75	30.70	28.42	25.29	21.59	23.51	23.92	
10	23.91	26.97	26.76	25.25	27.40	28.23	30.70	28.60	25.57	21.55	23.11	24.02	
11	24.14	26.86	26.47	25.01	27.42	27.57	30.68	28.65	25.90	21.57	22.45	23.75	
12	24.74	26.58	25.62	25.29	27.26	26.99	30.68	28.46	25.60	21.94	22.11	23.34	
13	25.02	26.30	25.20	25.44	27.01	27.00	30.65	28.18	25.09	22.15	22.22	23.18	
14	25.18	25.92	25.67	25.34	26.53	27.36	30.62	28.27	24.91	21.93	22.77	23.57	
15	24.95	25.22	26.47	24.78	25.78	27.99	30.58	28.58	24.79	21.57	23.25	23.75	
16	24.59	24.92	26.93	24.00	25.73	29.14	30.53	28.60	24.75	21.36	23.41	23.77	
17	24.48	25.08	26.94	23.15	26.29	29.89	30.46	28.47	24.31	21.35	23.44	23.81	
18	24.56	25.29	27.05	23.52	27.02	30.35	30.41	28.24	23.80	21.64	23.30	23.80	
19	24.78	25.19	27.39	24.31	27.86	30.46	30.34	27.91	23.73	22.01	22.95	23.38	
20	25.24	25.05	27.90	24.30	28.23	30.49	30.27	27.52	23.63	22.40	22.62	23.14	
21	25.44	24.85	28.16	24.14	27.88	30.48	30.16	27.22	23.42	22.12	22.67	23.46	
22	25.41	24.36	28.13	24.47	27.62	30.47	30.04	26.91	23.27	21.71	22.87	23.86	
23	25.19	24.57	27.97	24.51	27.67	30.45	29.93	26.69	23.14	21.48	22.85	23.96	
24	24.60	25.36	27.74	23.92	27.99	30.46	29.88	26.59	23.00	21.41	22.71	23.83	
25	24.23	25.84	27.34	23.59	28.24	30.49	29.73	26.56	22.50	21.92	22.70	23.67	
26	24.45	26.21	26.61	23.79	28.59	30.53	29.53	26.32	22.23	22.34	22.54	23.23	
27	24.78	26.46	26.22	23.81	29.06	30.56	29.32	26.05	22.10	22.43	22.17	23.11	
28	25.13	26.30	26.39	23.87	29.40	30.59	29.02	26.05	22.02	22.21	22.67	23.69	
29	25.62	25.77	26.54	24.38	29.51	30.63	28.65	26.56	22.03	21.64		24.02	
30	25.75	25.58	26.61	24.53	29.63	30.67	28.34	27.00	21.97	21.38		24.16	
31		25.74		24.41	29.71		28.11		21.84	21.37		24.19	
Mean	24.85	25.87	26.75	24.73	27.23	29.28	30.16	27.67	24.36	21.76	22.84	23.54	
Max	25.75	26.98	28.16	26.48	29.71	30.67	30.72	28.65	27.29	22.43	23.51	24.19	30.72
Min	23.91	24.36	25.20	23.15	24.64	26.99	28.11	26.05	21.84	21.35	22.11	22.86	21.35

Annual Max Momentary Gage Height	30.73 M (MSL), at 6.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation	19.80 M (MSL), River Bed 17.04 M (MSL)
Left Bank Elevation	30.28 M (MSL)
Right Bank Elevation	30.68 M (MSL), Drainage Area 32878 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	370.8	423.3	452.7	530.8	342.0	912.0	1410.2	712.5	470.5	84.4	117.7	180.8	
2	369.8	452.7	459.0	473.8	337.0	850.5	1422.0	709.0	479.5	81.6	178.2	191.3	
3	330.1	512.1	482.2	390.8	351.0	768.8	1445.6	695.3	431.6	83.0	221.9	204.8	
4	317.8	507.7	544.0	366.7	432.8	696.4	1433.8	676.9	366.8	83.7	213.8	204.8	
5	383.5	512.1	569.3	399.2	484.2	682.6	1445.6	684.9	329.5	83.7	166.4	185.0	
6	395.0	557.2	588.0	417.0	501.1	726.3	1422.0	689.5	328.0	80.2	128.8	173.1	
7	361.4	585.8	568.2	448.5	512.1	765.4	1422.0	715.9	338.7	76.0	182.4	202.1	
8	352.0	580.3	566.0	486.3	566.0	798.6	1422.0	740.1	325.4	75.3	215.6	235.4	
9	328.2	577.0	567.1	467.4	605.6	789.5	1422.0	749.3	315.7	75.3	230.9	268.4	
10	267.5	584.7	561.6	400.3	632.0	727.4	1422.0	770.0	325.8	72.5	194.9	277.9	
11	289.3	572.6	529.7	375.1	634.3	651.5	1398.4	780.0	342.5	73.9	140.0	252.5	
12	347.0	541.8	439.1	404.5	616.6	586.9	1398.4	718.1	327.0	100.5	113.3	215.6	
13	376.1	511.0	395.0	420.2	589.1	588.0	1363.0	647.5	310.2	116.2	121.6	201.2	
14	392.9	470.6	444.3	409.7	536.3	627.6	1327.6	669.2	306.6	99.8	165.6	236.3	
15	368.8	397.1	529.7	351.0	455.9	699.8	1291.6	752.3	352.0	73.9	207.5	252.5	
16	332.0	365.6	580.3	276.0	450.6	843.0	1260.6	758.0	348.0	59.4	221.9	254.3	
17	321.6	382.4	581.4	198.5	509.9	995.8	1217.2	720.9	305.4	58.8	224.6	258.0	
18	329.2	404.5	593.5	231.8	590.2	1158.0	1186.2	661.8	257.0	78.8	212.0	257.0	
19	351.0	394.0	630.9	305.4	684.9	1217.2	1153.6	589.0	250.7	105.8	180.8	219.2	
20	399.2	379.2	689.5	304.5	727.4	1235.8	1122.8	515.8	241.7	136.0	153.6	197.6	
21	420.2	358.3	719.4	289.3	687.2	1229.6	1078.6	469.0	222.8	114.0	157.6	226.4	
22	417.0	310.2	715.9	320.6	657.3	1223.4	1038.4	429.2	209.3	83.7	174.0	262.7	
23	394.0	330.1	697.5	324.5	663.1	1211.0	1006.5	405.0	197.6	67.6	172.3	272.2	
24	333.0	411.8	671.1	268.4	699.8	1217.2	993.2	395.1	185.0	62.7	160.8	259.9	
25	297.8	462.2	625.4	238.1	728.6	1235.8	955.2	392.4	144.0	99.0	160.0	245.3	
26	318.8	501.1	545.1	256.1	768.8	1260.6	910.0	371.6	122.4	131.2	147.2	205.7	
27	351.0	528.6	502.2	258.0	831.0	1279.2	871.2	351.5	112.5	138.4	117.7	194.9	
28	387.6	511.0	520.9	263.7	884.0	1297.8	825.0	351.5	106.5	120.8	157.6	247.1	
29	439.1	454.8	537.4	312.1	906.0	1339.4	776.5	392.4	107.3	78.8		277.9	
30	452.7	434.9	545.1	326.4	931.2	1386.6	740.1	440.0	102.7	60.7		291.2	
31		451.7		314.9	950.4		713.7		93.0	60.1		294.1	
Total	10794.4	14466.4	16851.5	10829.6	19266.4	29001.7	36895.0	17953.7	8355.7	2715.8	4838.7	7245.2	179214.1 CMSDAY
Mean	359.8	466.7	561.7	349.3	621.5	966.7	1190.2	598.5	269.5	87.6	172.8	233.7	491.0 CMS
Max	452.7	585.8	719.4	530.8	950.4	1386.6	1445.6	780.0	479.5	138.4	230.9	294.1	1445.6 CMS
Min	267.5	310.2	395.0	198.5	337.0	586.9	713.7	351.5	93.0	58.8	113.3	173.1	58.8 CMS
Runoff	932.64	1249.90	1455.97	935.68	1664.62	2505.75	3187.73	1551.20	721.93	234.65	418.06	625.99	15484.10 MCM

Momentary Peak 1457.40 CMS, at 30.73 M (MSL), at 6.00 Hours, on Oct 3, 1996

Runoff Yield 14.93 Liters/Second/Square KM, Momentary Peak Yield 44.328 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

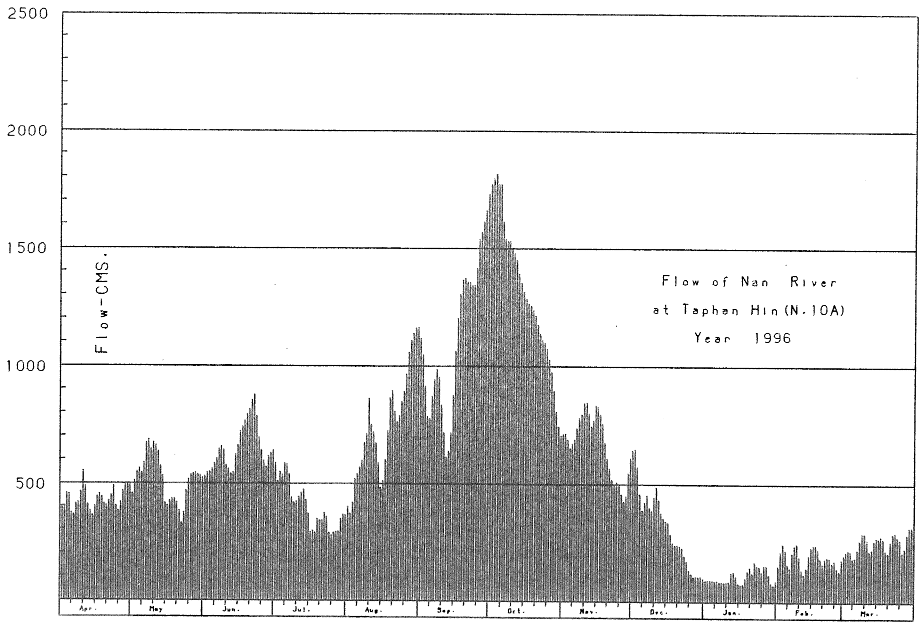
Nan River at Taphan Hin, Phichit (N.10A)

Location	Lat. 16°-12′-42″ N., Long. 100°-25′-01″ E., on left bank near Amphoe Taphan Hin Office about 250 meters from station N.10, Amphoe Taphan Hin, Phichit.
Drainage Area	30,765 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+22.28 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near automatic gage buiding.
Elevation	+33.300 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1974 - 1979, 1991 to date.
Rated by Float	-
Rated by Current Meter	1974 - 1982, 1987, 1991 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 35 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.38	26.86	27.43	27.86	26.40	31.33	32.90	28.76	28.28	23.07	23.89	24.43	
2	26.40	27.29	27.55	27.29	26.17	30.91	32.91	28.76	28.31	23.07	24.56	24.57	
3	26.88	27.59	27.58	27.59	26.57	30.09	32.92	28.60	27.76	23.08	24.93	24.68	
4	26.83	27.69	27.67	27.49	27.36	29.25	32.90	28.35	26.88	23.06	24.66	24.61	
5	26.17	27.55	27.86	27.86	27.52	29.20	32.90	28.47	26.30	23.04	23.97	24.27	
6	26.12	27.86	28.00	27.82	27.74	29.81	32.83	28.59	26.58	23.04	23.76	24.29	
7	26.52	28.49	28.31	27.52	27.94	30.25	32.79	28.93	26.83	22.99	24.53	24.70	
8	26.55	28.57	28.37	26.73	28.50	30.53	32.78	29.22	26.39	22.96	24.85	25.09	
9	26.93	28.31	28.28	26.56	28.75	30.31	32.78	29.33	26.28	22.96	24.95	25.40	
10	27.60	28.49	27.80	26.59	29.75	29.57	32.75	29.64	26.75	22.95	24.33	25.41	
11	27.11	28.41	27.67	26.75	29.03	28.80	32.72	29.66	27.12	23.01	23.66	25.04	
12	26.48	28.23	27.53	26.89	28.80	28.06	32.69	29.35	26.68	23.49	23.43	24.63	
13	26.24	27.77	27.56	27.01	28.49	28.25	32.62	28.99	26.20	23.57	23.80	24.68	
14	26.10	27.45	28.12	26.65	27.86	28.78	32.55	29.15	26.01	23.29	24.40	25.09	
15	26.41	26.54	28.41	26.17	27.09	29.84	32.44	29.59	25.88	22.90	24.79	25.20	
16	26.77	26.43	28.82	25.42	27.29	31.01	32.34	29.53	25.84	22.80	24.88	25.21	
17	26.84	26.62	28.97	25.47	27.98	31.84	32.22	29.33	25.37	22.86	24.88	25.27	
18	26.76	26.68	29.13	25.41	28.83	32.42	32.18	29.05	24.98	23.20	24.68	25.18	
19	26.51	26.69	29.32	25.95	29.77	32.58	32.05	28.51	24.88	23.61	24.26	24.65	
20	26.43	26.55	29.45	25.91	29.95	32.60	31.92	28.03	24.88	23.80	23.99	24.55	
21	26.59	26.25	29.70	25.89	29.39	32.56	31.70	27.71	24.83	23.49	24.22	25.05	
22	26.82	25.79	29.86	26.19	29.11	32.55	31.46	27.36	24.76	24.08	24.33	25.39	
23	27.11	26.19	29.26	26.03	29.27	32.52	31.29	27.20	24.41	23.87	24.27	25.42	
24	26.44	26.97	28.63	25.40	29.67	32.52	31.24	27.27	24.10	23.86	24.04	25.26	
25	26.25	27.34	28.27	25.27	29.94	32.65	31.07	27.22	23.64	23.55	24.14	25.13	
26	26.55	27.50	27.93	25.40	30.40	32.79	30.78	26.88	23.45	23.87	23.76	24.56	
27	26.96	27.53	27.75	25.41	30.98	32.81	30.47	26.61	23.28	23.90	23.61	24.76	
28	27.18	27.55	28.07	25.45	31.27	32.83	29.97	26.81	23.28	23.41	24.20	25.36	
29	27.20	27.50	28.18	25.95	31.46	32.85	29.39	27.57	23.28	22.91		25.64	
30	27.20	27.46	28.25	26.13	31.61	32.88	28.98	28.03	23.28	22.80		25.67	
31		27.38		26.09	31.61		28.71		23.16	23.02		25.71	
Mean	26.68	27.34	28.32	26.39	28.92	31.08	31.85	28.42	25.47	23.27	24.28	25.00	
Max	27.60	28.57	29.86	27.86	31.61	32.88	32.92	29.66	28.31	24.08	24.95	25.71	32.92
Min	26.10	25.79	27.43	25.27	26.17	28.06	28.71	26.61	23.16	22.80	23.43	24.27	22.80

Annual Max Momentary Gage Height 32.92 M (MSL), at 6.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation 22.28 M (MSL), River Bed 19.92 M (MSL)
Left Bank Elevation 33.08 M (MSL)
Right Bank Elevation 32.21 M (MSL), Drainage Area 30765 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	399.6	457.5	531.0	589.1	402.0	1119.5	1775.0	715.2	646.2	90.2	152.7	198.7	
2	402.0	512.2	547.2	512.2	374.5	1050.2	1797.5	715.2	650.4	90.2	210.4	211.3	
3	460.0	552.6	551.3	552.6	422.4	918.4	1820.0	692.0	575.6	91.0	245.4	221.6	
4	453.8	566.1	563.4	539.1	521.6	787.5	1775.0	656.0	460.0	89.5	219.7	215.0	
5	374.5	547.2	589.1	589.1	543.2	780.0	1775.0	673.1	390.0	88.0	159.5	185.0	
6	368.8	589.1	608.0	583.7	572.9	873.6	1617.5	690.6	423.6	88.0	142.0	186.7	
7	416.4	676.0	650.4	543.2	599.9	944.0	1541.3	739.9	453.8	84.3	207.7	223.5	
8	420.0	687.7	658.8	441.6	677.5	988.8	1532.5	783.0	400.8	82.2	237.8	261.0	
9	466.3	650.4	646.2	421.2	713.7	953.6	1532.5	799.5	387.6	82.2	247.3	292.0	
10	554.0	676.0	581.0	424.8	864.0	835.5	1506.3	846.4	444.0	81.5	190.1	293.1	
11	488.8	664.5	563.4	444.0	754.5	721.0	1480.0	849.6	490.0	85.8	134.5	256.0	
12	411.6	639.2	544.5	461.2	721.0	616.1	1453.7	802.5	435.6	121.8	117.3	216.8	
13	382.8	576.9	548.6	476.3	676.0	642.0	1392.5	748.5	378.0	127.8	145.0	221.6	
14	366.5	533.7	624.2	432.0	589.1	718.1	1356.3	772.5	356.2	106.8	196.0	261.0	
15	403.2	418.8	664.5	374.5	486.2	878.4	1315.0	838.5	342.4	78.0	232.1	272.0	
16	446.4	405.6	723.9	294.1	512.2	1066.7	1288.9	829.5	338.2	71.0	240.6	273.0	
17	455.0	428.4	745.6	299.3	605.3	1203.6	1266.7	799.5	289.0	75.2	240.6	279.0	
18	445.2	435.6	769.5	293.1	725.4	1307.5	1259.7	757.5	250.1	100.0	221.6	270.0	
19	415.2	436.8	798.0	349.8	867.2	1367.5	1238.2	679.0	240.6	130.8	184.1	218.7	
20	405.6	420.0	817.5	345.5	896.0	1375.0	1216.8	612.0	240.6	145.0	161.2	209.5	
21	424.8	384.0	856.0	343.4	808.5	1360.0	1180.5	568.8	235.8	121.8	180.7	257.0	
22	452.5	333.0	881.6	376.8	766.5	1356.3	1140.9	521.6	229.2	168.8	190.1	291.0	
23	488.8	376.8	789.0	358.5	790.5	1345.0	1112.9	500.0	196.9	151.0	185.0	294.1	
24	406.8	471.2	696.3	292.0	851.2	1345.0	1104.6	509.4	170.5	150.1	165.4	278.0	
25	384.0	518.9	644.8	279.0	894.4	1418.8	1076.6	502.7	133.0	126.2	173.9	265.0	
26	420.0	540.5	598.5	292.0	968.0	1541.3	1028.8	460.0	118.8	151.0	142.0	210.4	
27	470.0	544.5	574.2	293.1	1061.7	1572.5	979.2	427.2	106.0	153.5	130.8	229.2	
28	497.5	547.2	617.4	297.3	1109.6	1617.5	899.2	451.3	106.0	115.8	179.0	288.0	
29	500.0	540.5	632.3	349.8	1140.9	1662.5	808.5	549.9	106.0	78.7		317.2	
30	500.0	535.1	642.0	369.9	1165.7	1730.0	747.1	612.0	106.0	71.0		320.4	
31		524.3		365.3	1165.7		707.9		97.0	86.5		324.5	
Total	13080.1	16190.3	19658.2	12583.5	23247.3	34095.9	40726.6	20102.9	9797.9	3283.7	5232.5	7840.3	205839.2 CMSDAY
Mean	436.0	522.3	655.3	405.9	749.9	1136.5	1313.8	670.1	316.1	105.9	186.9	252.9	563.9 CMS
Max	554.0	687.7	881.6	589.1	1165.7	1730.0	1820.0	849.6	650.4	168.8	247.3	324.5	1820.0 CMS
Min	366.5	333.0	531.0	279.0	374.5	616.1	707.9	427.2	97.0	71.0	117.3	185.0	71.0 CMS
Runoff	1130.12	1398.84	1698.47	1087.21	2008.57	2945.89	3518.78	1736.89	846.54	283.71	452.09	677.40	17784.51 MCM

Momentary Peak 1820.00 CMS, at 32.92 M (MSL), at 6.00 Hours, on Oct 3, 1996

Runoff Yield 18.33 Liters/Second/Square KM, Momentary Peak Yield 59.158 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

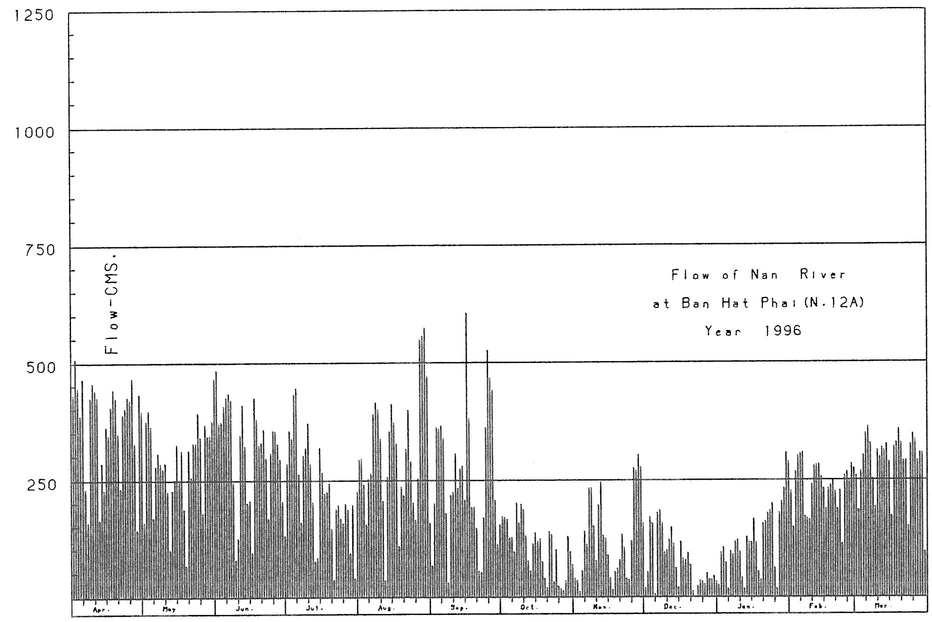
Nan River at Ban Hat Phai, Uttaradit (N.12A)

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 Pla, 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	+84.000 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 fair. Flow regulated by Sirikit Dam reservoir. Stage-discharge relation defined by 54 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.84	71.32	73.09	72.09	72.14	70.58	71.41	70.27	69.99	70.08	71.75	71.94	
2	73.20	72.56	72.53	72.46	72.15	71.59	71.40	70.21	70.45	70.83	71.25	71.50	
3	72.91	72.67	72.55	72.37	71.84	72.49	71.37	69.80	71.40	70.93	71.99	71.99	
4	72.62	72.50	72.72	72.85	71.30	72.47	71.09	70.47	71.31	70.64	72.18	72.19	
5	73.01	71.40	72.81	72.91	71.90	72.51	71.09	71.18	69.69	69.98	72.21	72.42	
6	71.78	72.06	72.86	71.97	71.97	72.37	70.85	70.98	71.46	70.85	72.22	72.49	
7	71.32	72.22	72.79	71.33	72.63	71.46	71.60	71.79	71.50	70.79	71.41	72.32	
8	72.81	72.09	71.86	72.19	72.76	70.15	71.32	71.79	71.31	71.03	71.38	71.90	
9	72.96	72.03	70.70	72.27	72.68	71.70	71.58	71.27	70.83	71.05	71.36	71.54	
10	72.89	72.10	71.08	72.54	72.37	71.74	71.51	70.67	70.87	70.85	71.83	72.24	
11	72.81	71.75	72.41	72.09	71.63	72.21	71.12	71.57	71.06	70.29	72.06	72.17	
12	71.37	70.89	72.73	71.61	70.23	71.79	70.67	71.86	71.25	69.95	72.07	72.27	
13	72.10	71.76	72.29	70.67	71.93	72.03	70.46	71.13	70.99	71.10	72.08	72.24	
14	71.76	71.90	71.60	70.73	72.45	72.06	71.00	71.07	70.53	71.02	71.93	72.31	
15	72.50	72.31	71.63	72.28	72.74	71.64	71.16	70.79	70.02	71.02	71.79	72.11	
16	72.40	71.89	70.83	71.99	72.54	73.61	71.03	70.28	71.03	71.37	71.51	71.42	
17	72.71	72.24	72.81	71.72	72.32	72.58	71.07	69.92	70.71	71.01	71.78	72.28	
18	72.89	71.52	72.58	71.75	70.96	71.54	70.66	70.45	70.68	70.45	71.83	72.32	
19	72.80	70.58	72.30	71.85	71.81	71.54	70.28	70.51	70.83	70.23	71.87	72.47	
20	72.42	72.25	72.33	71.23	71.70	71.24	70.01	70.70	70.60	71.30	71.74	72.32	
21	71.79	71.93	72.47	70.24	72.26	70.46	71.18	71.14	69.84	71.34	71.52	72.12	
22	72.63	72.32	72.16	71.52	72.67	70.44	71.14	70.92	69.57	71.46	71.76	72.13	
23	72.69	72.32	71.39	71.57	72.12	71.39	70.19	70.28	70.06	71.49	71.00	71.26	
24	72.82	72.65	72.22	71.39	71.60	72.49	70.88	70.23	70.21	71.59	71.94	72.31	
25	72.78	72.39	72.46	71.31	71.36	73.28	70.06	71.04	70.19	70.54	71.99	72.42	
26	73.01	71.46	72.45	71.59	71.91	73.01	69.97	72.04	70.10	69.98	71.89	72.35	
27	72.32	72.52	72.32	71.51	73.38	72.89	69.88	72.00	70.41	71.46	72.08	72.12	
28	71.21	72.40	72.15	70.83	73.41	71.64	70.20	72.19	70.26	71.61	72.03	72.22	
29	72.85	72.40	71.62	71.57	73.48	70.98	71.11	72.05	70.23	71.79		72.21	
30	72.66	72.56	71.12	70.28	73.03	71.29	70.85	71.31	70.34	72.22		70.85	
31		73.01		71.74	71.32		70.59		70.18	72.11		72.08	
Mean	72.50	72.06	72.16	71.69	72.15	71.84	70.86	71.00	70.58	70.98	71.80	72.08	
Max	73.20	73.01	73.09	72.91	73.48	73.61	71.60	72.19	71.50	72.22	72.22	72.49	73.61
Min	71.21	70.58	70.70	70.24	70.23	70.15	69.88	69.80	69.57	69.95	71.00	70.85	69.57

Annual Max Momentary Gage Height 75.14 M (MSL), at 17.00 Hours, on Sep 16, 1996
Zero Gage at Bottom Elevation 69.00 M (MSL), River Bed 67.39 M (MSL)
Left Bank Elevation 81.94 M (MSL)
Right Bank Elevation 82.05 M (MSL), Drainage Area 15718 Square Kilometers



Discharge, in Cubic Meter per Second; Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	433.0	159.8	485.2	285.7	294.5	68.0	172.6	40.2	19.6	26.0	226.7	259.5	
2	510.0	377.0	371.0	357.0	296.3	200.4	171.0	35.7	55.0	95.4	150.0	186.5	
3	447.0	399.0	375.0	339.0	242.0	363.0	166.8	12.0	171.0	106.9	268.2	268.2	
4	389.0	365.0	409.0	435.0	157.0	359.0	127.6	57.0	158.4	74.4	301.5	303.3	
5	467.3	171.0	427.0	447.0	252.5	367.0	127.6	140.2	8.2	19.2	307.0	349.0	
6	231.7	280.5	437.0	264.8	264.8	339.0	97.7	112.7	180.3	97.7	309.0	363.0	
7	159.8	309.0	423.0	161.2	391.0	180.3	202.0	233.3	186.5	90.9	172.6	329.0	
8	427.0	285.7	245.5	303.3	417.0	31.3	159.8	233.3	158.4	119.2	168.2	252.5	
9	457.0	275.2	81.0	319.0	401.0	218.5	198.9	152.8	95.4	122.0	165.4	192.7	
10	443.0	287.5	126.2	373.0	339.0	225.1	188.1	77.7	100.1	97.7	240.2	313.0	
11	427.0	226.7	347.0	285.7	206.9	307.0	131.8	197.4	123.4	41.7	280.5	299.8	
12	166.8	102.3	411.0	203.7	37.3	233.3	77.7	245.5	150.0	18.0	282.3	319.0	
13	287.5	228.4	323.0	77.7	257.7	275.2	56.0	133.2	113.8	129.0	284.0	313.0	
14	228.4	252.5	202.0	84.3	355.0	280.5	115.0	124.8	63.0	117.8	257.7	327.0	
15	365.0	327.0	206.9	321.0	413.0	208.6	137.4	90.9	21.5	117.8	233.3	289.3	
16	345.0	250.7	95.4	268.2	373.0	607.5	119.2	41.0	119.2	166.8	188.1	174.1	
17	407.0	313.0	427.0	221.8	329.0	381.0	124.8	16.8	82.1	116.4	231.7	321.0	
18	443.0	189.6	381.0	226.7	110.4	192.7	76.6	55.0	78.8	55.0	240.2	329.0	
19	425.0	68.0	325.0	243.7	236.7	192.7	41.0	61.0	95.4	37.3	247.3	359.0	
20	349.0	315.0	331.0	147.2	218.5	148.6	20.8	81.0	70.0	157.0	225.1	329.0	
21	233.3	257.7	359.0	38.0	317.0	56.0	140.2	134.6	13.6	162.6	189.6	291.0	
22	391.0	329.0	298.0	189.6	399.0	54.0	134.6	105.8	3.5	180.3	228.4	292.7	
23	403.0	329.0	169.6	197.4	291.0	169.6	34.3	41.0	24.5	184.9	115.0	151.4	
24	429.0	395.0	309.0	169.6	202.0	363.0	101.2	37.3	35.7	200.4	259.5	327.0	
25	421.0	343.0	357.0	158.4	165.4	528.0	24.5	120.6	34.3	64.0	268.2	349.0	
26	467.3	180.3	355.0	200.4	254.3	467.3	18.8	277.0	27.5	19.2	250.7	335.0	
27	329.0	369.0	329.0	188.1	550.5	443.0	15.2	270.0	51.0	180.3	284.0	291.0	
28	144.4	345.0	296.3	95.4	557.5	208.6	35.0	303.3	39.5	203.7	275.2	309.0	
29	435.0	345.0	205.3	197.4	575.0	112.7	130.4	278.8	37.3	233.3		307.0	
30	397.0	377.0	131.8	41.0	471.7	155.6	97.7	158.4	45.5	309.0		97.7	
31		467.3		225.1	159.8		69.0		33.5	289.3		284.0	
Total	11058.5	8920.2	9239.2	7065.4	9535.8	7736.5	3313.3	3868.3	2396.0	3833.2	6649.6	8911.7	82527.7 CMSDAY
Mean	368.6	287.7	308.0	227.9	307.6	257.9	106.9	128.9	77.3	123.7	237.5	287.5	226.1 CMS
Max	510.0	467.3	485.2	447.0	575.0	607.5	202.0	303.3	186.5	309.0	309.0	363.0	607.5 CMS
Min	144.4	68.0	81.0	38.0	37.3	31.3	15.2	12.0	3.5	18.0	115.0	97.7	3.5 CMS
Runoff	955.45	770.71	798.27	610.45	823.89	668.43	286.27	334.22	207.01	331.19	574.53	769.97	7130.39 MCM

Momentary Peak 1032.00 CMS, at 75.14 M (MSL), at 17.00 Hours, on Sep 16, 1996

Runoff Yield 14.38 Liters/Second/Square KM, Momentary Peak Yield 65.657 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

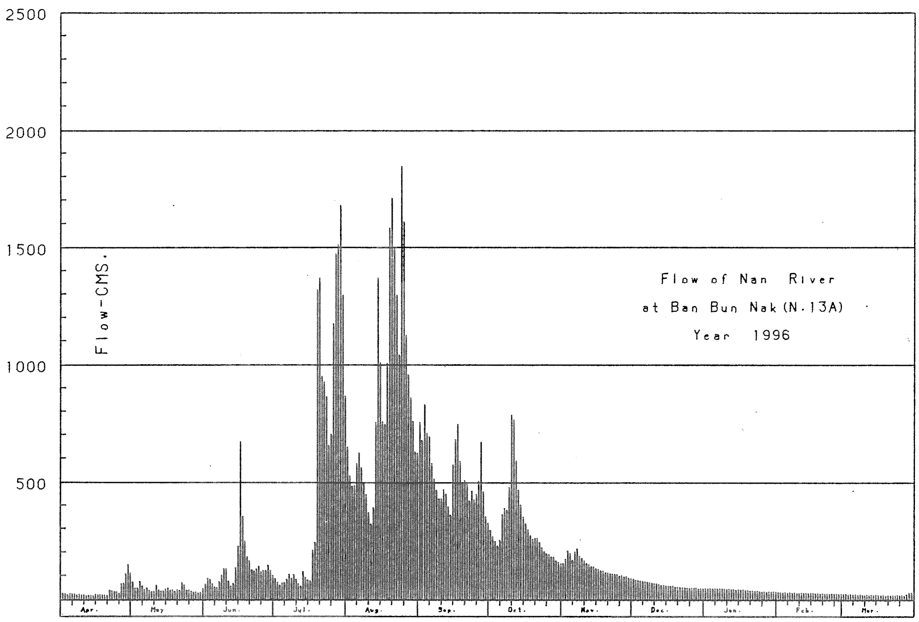
Nan River at Ban Bun Nak, Nan (N.13A)

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	+177.39 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+192.690 m.(M.S.L)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
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. Stage-discharge relation defined by 168 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.28	178.54	178.51	178.58	180.41	180.73	179.31	178.83	178.58	178.43	178.33	178.26	
2	178.25	178.43	178.58	178.53	180.04	180.50	179.22	178.89	178.56	178.43	178.32	178.26	
3	178.23	178.44	178.57	178.50	179.91	180.96	179.15	179.02	178.56	178.43	178.32	178.25	
4	178.25	178.54	178.51	178.52	179.91	180.59	179.09	178.98	178.55	178.43	178.32	178.25	
5	178.26	178.48	178.46	178.53	180.20	180.55	179.17	178.88	178.55	178.43	178.31	178.25	
6	178.24	178.40	178.44	178.57	180.34	180.20	179.54	179.00	178.54	178.43	178.31	178.25	
7	178.23	178.44	178.54	178.64	180.15	180.00	179.62	179.05	178.54	178.43	178.31	178.24	
8	178.24	178.37	178.62	178.58	179.95	179.86	179.60	178.94	178.53	178.43	178.31	178.24	
9	178.22	178.34	178.74	178.64	179.80	179.75	179.89	178.91	178.53	178.42	178.30	178.23	
10	178.21	178.33	178.73	178.57	179.56	179.74	180.83	178.87	178.52	178.42	178.30	178.23	
11	178.20	178.49	178.55	178.51	179.40	179.86	180.76	178.83	178.52	178.42	178.30	178.23	
12	178.20	178.40	178.47	178.48	179.63	179.81	180.24	178.81	178.51	178.42	178.30	178.23	
13	178.20	178.34	178.52	178.69	180.73	179.64	179.86	178.78	178.50	178.41	178.29	178.23	
14	178.19	178.36	178.75	178.59	182.34	179.53	179.66	178.77	178.50	178.41	178.29	178.23	
15	178.23	178.41	179.08	178.56	181.46	180.19	179.50	178.75	178.49	178.41	178.29	178.22	
16	178.22	178.43	180.48	178.55	180.74	180.51	179.41	178.73	178.48	178.41	178.29	178.22	
17	178.22	178.39	179.51	179.02	180.71	180.71	179.32	178.71	178.48	178.41	178.29	178.22	
18	178.22	178.39	179.16	179.14	181.45	180.23	179.24	178.70	178.48	178.40	178.28	178.22	
19	178.21	178.35	178.93	182.23	182.80	179.96	179.18	178.68	178.47	178.39	178.28	178.21	
20	178.20	178.39	178.86	182.34	183.06	179.98	179.20	178.67	178.46	178.38	178.28	178.21	
21	178.40	178.39	178.72	181.30	182.62	179.93	179.20	178.66	178.46	178.38	178.27	178.21	
22	178.35	178.53	178.70	181.23	182.18	179.72	179.14	178.65	178.45	178.37	178.27	178.21	
23	178.34	178.49	178.73	181.06	181.55	179.85	179.06	178.65	178.45	178.37	178.27	178.22	
24	178.32	178.39	178.78	180.43	183.32	179.73	179.01	178.64	178.44	178.36	178.27	178.22	
25	178.28	178.38	178.68	180.58	182.86	179.80	178.98	178.62	178.44	178.35	178.27	178.22	
26	178.51	178.35	178.70	181.88	181.76	179.97	178.96	178.62	178.44	178.34	178.26	178.22	
27	178.52	178.32	178.71	182.57	181.32	180.48	178.93	178.61	178.44	178.34	178.26	178.21	
28	178.65	178.31	178.80	182.65	181.04	179.84	178.92	178.60	178.44	178.34	178.26	178.24	
29	178.80	178.29	178.70	183.00	180.75	179.50	178.87	178.59	178.43	178.34		178.31	
30	178.66	178.29	178.62	182.18	180.35	179.41	178.84	178.58	178.43	178.34		178.30	
31		178.42		181.06	180.33		178.82		178.43	178.34		178.28	
Mean	178.31	178.40	178.77	179.93	180.99	180.05	179.37	178.77	178.49	178.39	178.29	178.24	
Max	178.80	178.54	180.48	183.00	183.32	180.96	180.83	179.05	178.58	178.43	178.33	178.31	183.32
Min	178.19	178.29	178.44	178.48	179.40	179.41	178.82	178.58	178.43	178.34	178.26	178.21	178.19

Annual Max Momentary Gage Height 183.49 M (MSL), at 21.00 Hours, on Aug 24, 1996
Zero Gage at Bottom Elevation 177.39 M (MSL), River Bed 175.70 M (MSL)
Left Bank Elevation 187.80 M (MSL)
Right Bank Elevation 192.62 M (MSL), Drainage Area 8784 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.6	79.0	68.5	93.0	651.3	756.9	298.0	158.1	93.0	50.3	35.6	27.2	
2	26.0	50.3	93.0	75.5	529.2	681.0	271.0	174.3	86.0	50.3	34.4	27.2	
3	23.6	52.4	89.5	65.0	486.3	834.4	250.0	211.8	86.0	50.3	34.4	26.0	
4	26.0	79.0	68.5	72.0	486.3	710.7	232.1	200.2	82.5	50.3	34.4	26.0	
5	27.2	60.8	56.6	75.5	582.0	697.5	256.0	171.6	82.5	50.3	33.2	26.0	
6	24.8	44.0	52.4	89.5	628.2	582.0	367.0	206.0	79.0	50.3	33.2	26.0	
7	23.6	52.4	79.0	110.0	565.5	516.0	391.4	220.5	79.0	50.3	33.2	24.8	
8	24.8	40.4	105.0	93.0	499.5	469.8	385.0	188.6	75.5	50.3	33.2	24.8	
9	22.4	36.8	135.0	110.0	450.0	433.5	479.7	179.9	75.5	48.2	32.0	23.6	
10	21.2	35.6	132.5	89.5	373.0	430.2	790.2	168.9	72.0	48.2	32.0	23.6	
11	20.0	62.9	82.5	68.5	325.0	469.8	766.8	158.1	72.0	48.2	32.0	23.6	
12	20.0	44.0	58.7	60.8	394.6	453.3	595.2	152.7	68.5	48.2	32.0	23.6	
13	20.0	36.8	72.0	122.5	756.9	397.8	469.8	145.0	65.0	46.1	30.8	23.6	
14	19.4	39.2	137.5	96.5	1373.0	364.0	404.2	142.5	65.0	46.1	30.8	23.6	
15	23.6	46.1	229.2	86.0	1012.2	578.7	355.0	137.5	62.9	46.1	30.8	22.4	
16	22.4	50.3	674.4	82.5	760.2	684.3	328.0	132.5	60.8	46.1	30.8	22.4	
17	22.4	42.8	358.0	211.8	750.3	750.3	301.0	127.5	60.8	46.1	30.8	22.4	
18	22.4	42.8	253.0	247.0	1008.5	591.9	277.0	125.0	60.8	44.0	29.6	22.4	
19	21.2	38.0	185.7	1323.5	1585.0	502.8	259.0	120.0	58.7	42.8	29.6	21.2	
20	20.0	42.8	166.2	1373.0	1715.0	509.4	265.0	117.5	56.6	41.6	29.6	21.2	
21	44.0	42.8	130.0	954.0	1499.4	492.9	265.0	115.0	56.6	41.6	28.4	21.2	
22	38.0	75.5	125.0	928.8	1301.4	423.6	247.0	112.5	54.5	40.4	28.4	21.2	
23	36.8	62.9	132.5	868.4	1046.0	466.5	223.4	112.5	54.5	40.4	28.4	22.4	
24	34.4	42.8	145.0	657.9	1848.8	426.9	208.9	110.0	52.4	39.2	28.4	22.4	
25	29.6	41.6	120.0	707.4	1615.0	450.0	200.2	105.0	52.4	38.0	28.4	22.4	
26	68.5	38.0	125.0	1177.0	1129.0	506.1	194.4	105.0	52.4	36.8	27.2	22.4	
27	72.0	34.4	127.5	1476.5	961.2	674.4	185.7	102.5	52.4	36.8	27.2	21.2	
28	112.5	33.2	150.0	1513.5	861.6	463.2	182.8	100.0	52.4	36.8	27.2	24.8	
29	150.0	30.8	125.0	1685.0	763.5	355.0	168.9	96.5	50.3	36.8		33.2	
30	115.0	30.8	105.0	1301.4	631.5	328.0	160.8	93.0	50.3	36.8		32.0	
31		48.2		868.4	624.9		155.4		50.3	36.8		29.6	
Total	1161.4	1457.4	4382.2	16683.4	27214.3	16000.9	9933.9	4290.2	2020.6	1374.5	866.0	754.4	86139.2 CMSDAY
Mean	38.7	47.0	146.1	538.2	877.9	533.4	320.4	143.0	65.2	44.3	30.9	24.3	236.0 CMS
Max	150.0	79.0	674.4	1685.0	1848.8	834.4	790.2	220.5	93.0	50.3	35.6	33.2	1848.8 CMS
Min	19.4	30.8	52.4	60.8	325.0	328.0	155.4	93.0	50.3	36.8	27.2	21.2	19.4 CMS
Runoff	100.34	125.92	378.62	1441.45	2351.32	1382.48	858.29	370.67	174.58	118.76	74.82	65.18	7442.43 MCM

Momentary Peak 1940.60 CMS, at 183.49 M (MSL), at 21.00 Hours, on Aug 24, 1996

Runoff Yield 26.87 Liters/Second/Square KM, Momentary Peak Yield 220.924 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

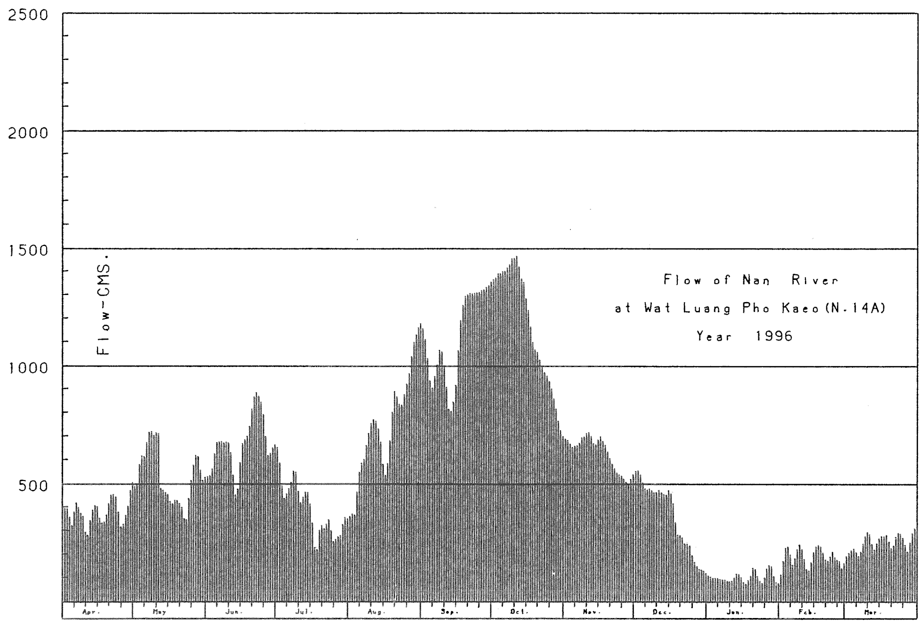
Nan River at Wat Luang Pho Kaeo, Nakhon Sawan (N.14A)

Location	Lat. 15°-53′-56″ N., Long. 100°-18′-34″ E., on right bank in front of Wat Luang Pho Kaeo about 1 km. upstream from station N.14, Amphoe Chum Saeng, Nakhon Sawan.
Drainage Area	33,182 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+19.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank in front of automatic gage building.
Elevation	+27.842 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1973 - 1979, 1991 to date.
Rated by Float	-
Rated by Current Meter	1972 - 1980, 1991 to date.
Stability of Channel Regimes	Fairly stable because of badkwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +27.74 m.(M.S.L.) and is included.
General Description	Records fair. Flow effected by Naresuan Dam. Stage-discharge relation defined by 31 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.81	23.48	23.75	24.51	22.57	27.10	28.03	27.01	25.77	20.16	20.19	21.07	
2	22.80	23.54	23.79	24.12	22.64	26.89	28.07	26.97	25.82	20.08	20.85	21.19	
3	22.54	24.09	23.96	23.50	22.62	26.50	28.13	26.88	25.59	20.04	21.41	21.33	
4	22.26	24.30	24.36	23.14	23.32	26.04	28.14	26.77	25.13	20.02	21.48	21.38	
5	22.72	24.29	24.63	23.27	23.88	25.87	28.17	26.82	24.61	20.02	21.13	21.25	
6	23.00	24.63	24.66	23.42	24.11	26.12	28.18	26.82	24.50	19.95	20.67	21.06	
7	22.85	24.89	24.66	23.61	24.21	26.38	28.23	26.90	24.59	19.95	20.97	21.26	
8	22.67	24.90	24.63	23.91	24.57	26.66	28.29	27.03	24.43	19.92	21.36	21.59	
9	22.56	24.82	24.64	23.87	24.86	26.64	28.38	27.06	24.10	19.87	21.56	21.89	
10	22.01	24.88	24.63	23.35	25.09	26.35	28.39	27.13	24.22	19.85	21.36	22.03	
11	21.91	24.85	24.37	23.01	25.18	25.89	28.42	27.16	24.42	19.86	20.92	21.94	
12	22.44	24.64	23.80	23.16	25.14	25.42	28.39	27.07	24.21	20.04	20.47	21.59	
13	22.76	24.38	23.23	23.33	24.97	25.36	28.36	26.88	23.76	20.24	20.39	21.34	
14	22.92	24.09	23.42	23.31	24.64	25.57	28.35	26.86	23.54	20.23	20.79	21.59	
15	22.87	23.55	24.12	22.96	24.09	25.94	28.31	26.99	23.38	20.04	21.24	21.80	
16	22.50	23.04	24.60	22.35	23.80	26.66	28.28	27.06	23.29	19.79	21.46	21.87	
17	22.33	22.97	24.71	21.42	24.10	27.25	28.24	26.96	22.98	19.72	21.54	21.89	
18	22.38	23.07	24.78	21.35	24.68	27.56	28.20	26.84	22.38	19.90	21.47	21.93	
19	22.60	23.07	25.03	22.08	25.35	27.73	28.15	26.64	21.92	20.15	21.21	21.66	
20	22.98	22.97	25.41	22.25	25.80	27.77	28.13	26.37	21.90	20.53	20.90	21.40	
21	23.24	22.85	25.69	22.15	25.69	27.79	28.08	26.14	21.82	20.49	20.87	21.53	
22	23.25	22.49	25.77	22.30	25.52	27.79	28.03	25.90	21.60	20.12	21.03	21.85	
23	23.17	22.45	25.70	22.45	25.51	27.79	27.99	25.70	21.57	19.85	21.26	22.01	
24	22.71	23.13	25.56	22.08	25.73	27.81	27.95	25.60	21.52	19.75	21.01	21.97	
25	22.21	23.66	25.30	21.67	25.97	27.82	27.90	25.55	21.10	20.06	20.91	21.83	
26	22.30	24.07	24.79	21.74	26.18	27.84	27.82	25.38	20.79	20.49	20.84	21.53	
27	22.59	24.31	24.32	21.85	26.54	27.86	27.71	25.15	20.62	20.66	20.52	21.27	
28	22.90	24.29	24.36	21.89	26.82	27.90	27.57	25.05	20.47	20.59	20.74	21.65	
29	23.38	23.93	24.51	22.29	26.97	27.94	27.39	25.33	20.45	20.13		21.97	
30	23.60	23.67	24.57	22.52	27.12	27.99	27.20	25.61	20.38	19.79		22.17	
31		23.74		22.48	27.19		27.06		20.27	19.74		22.22	
Mean	22.71	23.84	24.59	22.75	25.00	26.94	28.05	26.45	22.94	20.07	21.02	21.65	
Max	23.60	24.90	25.77	24.51	27.19	27.99	28.42	27.16	25.82	20.66	21.56	22.22	28.42
Min	21.91	22.45	23.23	21.35	22.57	25.36	27.06	25.05	20.27	19.72	20.19	21.06	19.72

Annual Max Momentary Gage Height 28.42 M (MSL), at 17.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation 19.00 M (MSL), River Bed 16.01 M (MSL)
Left Bank Elevation 28.09 M (MSL)
Right Bank Elevation 27.74 M (MSL), Drainage Area 33182 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	396.4	490.0	532.0	656.7	365.1	1161.5	1367.5	693.9	556.5	113.8	116.2	196.6	
2	395.0	499.0	538.4	591.2	374.2	1116.4	1377.5	687.3	560.7	107.4	175.7	208.0	
3	361.2	586.4	565.6	493.0	371.6	1034.0	1392.5	673.4	541.2	104.2	230.1	222.0	
4	325.5	621.0	631.2	441.6	466.8	941.0	1395.0	657.1	509.4	102.6	237.4	227.0	
5	384.6	619.3	677.1	459.8	552.8	907.7	1402.5	664.1	482.5	102.6	202.3	214.0	
6	422.0	677.1	682.2	481.0	589.6	957.0	1405.0	664.1	478.5	97.0	158.6	195.7	
7	401.8	722.2	682.2	509.6	605.7	1009.0	1417.9	676.5	481.6	97.0	187.1	215.0	
8	378.1	724.0	677.1	557.6	666.9	1067.6	1433.9	697.6	476.0	94.6	225.0	248.9	
9	363.8	709.6	678.8	551.2	716.8	1063.4	1457.7	703.1	465.5	90.6	245.8	282.3	
10	296.2	720.4	677.1	471.0	758.7	1003.0	1460.4	716.0	468.7	89.0	225.0	298.5	
11	284.7	715.0	632.9	423.4	775.3	911.5	1468.5	721.6	475.7	89.8	182.4	288.1	
12	348.2	483.8	540.0	444.4	767.9	819.9	1425.0	704.9	468.3	104.2	140.3	248.9	
13	389.8	474.3	454.2	468.2	736.6	808.6	1374.0	673.4	458.8	120.4	133.1	223.0	
14	411.2	465.2	481.0	465.4	678.8	849.2	1357.0	670.3	457.7	119.5	170.1	248.9	
15	404.5	457.7	591.2	416.6	586.4	921.3	1289.0	690.4	475.2	104.2	213.0	272.0	
16	356.0	427.6	672.0	336.8	540.0	1067.6	1238.0	703.1	462.6	84.3	235.3	280.1	
17	334.2	417.9	690.7	231.1	588.0	1193.8	1170.0	685.8	419.3	79.0	243.7	282.3	
18	340.5	431.8	702.6	224.0	685.6	1260.4	1102.0	667.2	340.5	93.0	236.3	287.0	
19	369.0	431.8	747.6	304.2	806.8	1297.0	1071.7	640.2	285.8	113.0	210.0	256.6	
20	419.3	417.9	818.0	324.2	894.0	1305.6	1059.6	611.0	283.5	145.7	180.5	229.0	
21	455.6	401.8	872.6	312.2	872.6	1309.9	1029.4	588.6	274.3	142.1	177.7	242.7	
22	457.0	354.7	888.2	330.5	839.4	1309.9	999.2	567.5	250.0	110.6	192.9	277.8	
23	445.8	349.5	874.5	349.5	837.5	1309.9	976.7	550.5	246.8	89.0	215.0	296.2	
24	383.3	440.2	847.2	304.2	880.3	1314.4	959.8	542.0	241.6	81.3	190.9	291.5	
25	319.2	517.6	797.5	257.7	927.1	1316.8	938.5	538.2	199.5	105.8	181.4	275.5	
26	330.5	583.2	704.3	265.4	969.0	1321.6	904.5	525.7	170.1	142.1	174.8	242.7	
27	367.7	622.7	624.4	277.8	1042.4	1326.4	865.4	510.7	153.9	157.7	144.8	216.0	
28	408.5	619.3	631.2	282.3	1101.3	1336.0	819.7	504.2	140.3	151.1	165.3	255.5	
29	475.2	560.8	656.7	329.3	1133.6	1345.6	770.8	522.5	138.5	111.4		291.5	
30	508.0	519.2	666.9	358.6	1165.8	1357.6	729.0	542.9	132.3	84.3		314.5	
31		530.4		353.4	1180.9		703.1		123.0	80.5		320.5	
Total	11532.8	16591.4	20235.4	12271.9	23477.5	33943.6	36360.8	18993.8	11218.3	3307.8	5390.7	7948.3	201272.3 CMSDAY
Mean	384.4	535.2	674.5	395.9	757.3	1131.5	1172.9	633.1	361.9	106.7	192.5	256.4	551.4 CMS
Max	508.0	724.0	888.2	656.7	1180.9	1357.6	1468.5	721.6	560.7	157.7	245.8	320.5	1468.5 CMS
Min	284.7	349.5	454.2	224.0	365.1	808.6	703.1	504.2	123.0	79.0	116.2	195.7	79.0 CMS
Runoff	996.43	1433.50	1748.34	1060.29	2028.46	2932.73	3141.57	1641.06	969.26	285.79	465.76	686.73	17389.93 MCM

Momentary Peak 1468.50 CMS, at 28.42 M (MSL), at 17.00 Hours, on Oct 11, 1996
Runoff Yield 16.62 Liters/Second/Square KM, Momentary Peak Yield 44.256 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

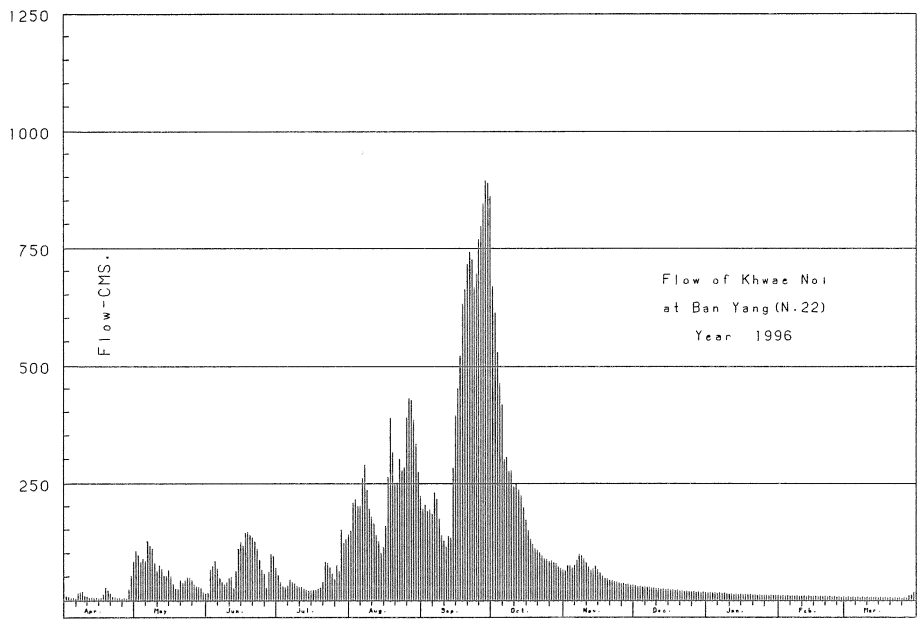
Khwae Noi at Ban Yang, Phitsanulok. (N.22)

Location	Lat. 17°-01′-57″ N., Long. 100°-22′-23″ E., on left bank about 1 kilometer downstream from District Forestry office, Amphoe Wat Bot, Phitsanulok.
Drainage Area	4,841 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+42.67 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Infront of the Meteorological station.
Elevation	+51.975 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00, and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1963 to date.
Rating Operation	
Period of Rating	1963-1974, 1996 to date.
Rated by Float	-
Rated by Current Meter	1963-1974, 1996 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation + 50.93m(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.42	45.59	43.71	44.67	46.26	46.92	51.32	44.87	44.14	43.72	43.48	43.36	
2	43.30	45.46	44.91	44.31	47.09	47.05	51.00	45.07	44.12	43.72	43.48	43.36	
3	43.24	45.20	45.02	44.12	47.18	46.87	50.40	45.04	44.10	43.71	43.47	43.35	
4	43.21	45.30	45.24	44.02	47.02	46.90	49.84	44.98	44.09	43.70	43.46	43.34	
5	43.20	45.22	44.93	44.18	47.01	46.78	49.42	45.07	44.08	43.69	43.46	43.33	
6	43.63	45.95	44.53	44.43	47.72	47.36	48.15	45.28	44.07	43.69	43.46	43.33	
7	43.75	45.79	44.31	44.33	48.03	47.18	48.22	45.49	44.05	43.68	43.46	43.32	
8	43.76	45.67	44.23	44.25	47.42	46.63	47.89	45.45	44.04	43.67	43.45	43.32	
9	43.49	45.16	44.31	44.14	46.94	46.11	47.89	45.32	44.00	43.65	43.44	43.32	
10	43.36	44.85	44.53	44.08	46.68	45.93	47.51	45.18	43.99	43.62	43.44	43.32	
11	43.29	45.05	44.56	44.05	46.48	45.75	47.55	45.00	43.97	43.61	43.44	43.31	
12	43.26	44.91	44.01	43.98	46.11	46.08	47.43	44.89	43.96	43.60	43.44	43.31	
13	43.24	44.64	44.82	43.87	45.91	46.04	47.27	44.92	43.95	43.60	43.44	43.31	
14	43.23	44.60	45.68	43.85	45.53	47.97	46.98	45.06	43.94	43.59	43.43	43.31	
15	43.22	44.89	45.89	43.82	45.74	49.18	46.58	44.90	43.92	43.59	43.42	43.30	
16	43.24	44.60	45.77	43.84	46.39	49.73	46.26	44.79	43.91	43.58	43.42	43.30	
17	43.59	44.24	46.20	43.88	47.74	50.33	46.02	44.62	43.89	43.58	43.42	43.29	
18	44.00	43.94	46.22	43.94	49.13	51.12	45.84	44.54	43.88	43.58	43.42	43.29	
19	43.87	43.95	46.14	44.04	48.32	51.29	45.70	44.48	43.87	43.57	43.42	43.27	
20	43.60	44.41	46.05	44.32	47.58	51.56	45.63	44.43	43.84	43.56	43.41	43.27	
21	43.39	44.30	45.94	45.22	47.61	51.67	45.56	44.39	43.82	43.54	43.40	43.26	
22	43.28	44.40	45.68	45.15	48.18	51.61	45.43	44.37	43.81	43.52	43.39	43.26	
23	43.23	44.56	45.28	45.00	47.89	51.31	45.33	44.34	43.80	43.52	43.38	43.26	
24	43.20	44.52	44.89	44.72	47.97	51.47	45.30	44.31	43.79	43.52	43.37	43.25	
25	43.20	44.43	44.73	44.47	49.14	51.77	45.23	44.28	43.78	43.51	43.37	43.24	
26	43.19	44.20	44.01	45.05	49.54	51.87	45.24	44.26	43.77	43.50	43.37	43.24	
27	43.21	44.12	44.81	44.85	49.51	52.02	45.19	44.24	43.76	43.50	43.36	43.25	
28	43.93	44.05	45.47	46.28	49.07	52.15	45.13	44.22	43.75	43.50	43.36	43.43	
29	44.61	44.01	45.42	45.88	48.52	52.14	45.02	44.20	43.73	43.50		43.54	
30	45.20	43.70	44.96	45.98	47.87	52.06	44.94	44.17	43.73	43.49		43.70	
31		43.62		46.14	47.26		44.88		43.72	43.49		43.82	
Mean	43.51	44.69	45.08	44.54	47.51	49.16	46.91	44.74	43.91	43.59	43.42	43.34	
Max	45.20	45.95	46.22	46.28	49.54	52.15	51.32	45.49	44.14	43.72	43.48	43.82	52.15
Min	43.19	43.62	43.71	43.82	45.53	45.75	44.88	44.17	43.72	43.49	43.36	43.24	43.19

Annual Max Momentary Gage Height 52.17 M (MSL), at 12.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 42.67 M (MSL), River Bed 42.34 M (MSL)
Left Bank Elevation 52.30 M (MSL)
Right Bank Elevation 50.93 M (MSL), Drainage Area 4841 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.5	106.4	18.3	56.1	150.2	196.4	669.2	65.8	32.9	18.6	12.0	9.2	
2	8.0	98.6	68.1	40.0	209.7	206.2	615.0	76.8	32.2	18.6	12.0	9.2	
3	6.8	84.0	74.1	32.2	217.3	192.9	531.0	75.2	31.5	18.3	11.8	9.0	
4	6.2	89.5	86.2	28.7	203.7	195.0	464.4	71.9	31.1	18.0	11.5	8.8	
5	6.0	85.1	69.2	34.3	202.8	186.6	420.0	76.8	30.8	17.7	11.5	8.6	
6	15.9	128.8	49.8	45.4	263.2	232.6	301.5	88.4	30.4	17.7	11.5	8.6	
7	19.5	118.4	40.0	40.9	290.7	217.3	307.8	100.4	29.7	17.4	11.5	8.4	
8	19.8	111.2	36.3	37.2	237.7	176.1	278.1	98.0	29.4	17.1	11.3	8.4	
9	12.3	81.8	40.0	32.9	197.8	139.7	278.1	90.6	28.0	16.5	11.0	8.4	
10	9.2	64.7	49.8	30.8	179.6	127.5	245.3	82.9	27.7	15.6	11.0	8.4	
11	7.8	75.7	51.2	29.7	165.6	116.0	248.7	73.0	27.0	15.3	11.0	8.2	
12	7.2	68.1	28.3	27.3	139.7	137.6	238.6	66.9	26.6	15.0	11.0	8.2	
13	6.8	54.8	63.1	23.4	126.2	134.8	225.0	68.6	26.3	15.0	11.0	8.2	
14	6.6	53.0	111.8	22.7	102.8	285.3	200.6	76.3	25.9	14.8	10.7	8.2	
15	6.4	66.9	124.8	21.7	115.4	396.1	172.6	67.5	25.2	14.8	10.5	8.0	
16	6.8	53.0	117.2	22.4	159.3	452.3	150.2	61.6	24.9	14.5	10.5	8.0	
17	14.8	36.8	146.0	23.8	264.9	522.3	133.4	53.9	24.1	14.5	10.5	7.8	
18	28.0	25.9	147.4	25.9	391.4	634.2	121.6	50.3	23.8	14.5	10.5	7.8	
19	23.4	26.3	141.8	29.4	316.8	663.6	113.0	47.6	23.4	14.3	10.5	7.4	
20	15.0	44.4	135.5	40.4	251.3	717.6	108.8	45.4	22.4	14.0	10.2	7.4	
21	9.8	39.5	128.1	85.1	253.9	744.2	104.6	43.5	21.7	13.5	10.0	7.2	
22	7.6	44.0	111.8	81.3	304.2	728.6	96.8	42.6	21.4	13.0	9.8	7.2	
23	6.6	51.2	88.4	73.0	278.1	667.4	91.2	41.3	21.0	13.0	9.6	7.2	
24	6.0	49.4	66.9	58.4	285.3	698.7	89.5	40.0	20.7	13.0	9.4	7.0	
25	6.0	45.4	58.9	47.2	392.3	770.2	85.6	38.6	20.4	12.7	9.4	6.8	
26	5.8	35.0	28.3	75.7	432.0	799.7	86.2	37.7	20.1	12.5	9.4	6.8	
27	6.2	32.2	62.6	64.7	429.0	847.3	83.4	36.8	19.8	12.5	9.2	7.0	
28	25.6	29.7	99.2	151.6	385.6	894.8	80.2	35.9	19.5	12.5	9.2	10.7	
29	53.5	28.3	96.2	124.2	334.8	891.1	74.1	35.0	18.9	12.5		13.5	
30	84.0	18.0	70.8	130.7	276.3	861.9	69.7	33.9	18.9	12.3		18.0	
31		15.6		141.8	224.1		66.4		18.6	12.3		21.7	
Total	448.1	1861.7	2410.1	1678.9	7781.7	13834.0	6750.6	1823.2	774.3	462.0	297.5	279.3	38401.4 CMSDAY
Mean	14.9	60.1	80.3	54.2	251.0	461.1	217.8	60.8	25.0	14.9	10.6	9.0	105.2 CMS
Max	84.0	128.8	147.4	151.6	432.0	894.8	669.2	100.4	32.9	18.6	12.0	21.7	894.8 CMS
Min	5.8	15.6	18.3	21.7	102.8	116.0	66.4	33.9	18.6	12.3	9.2	6.8	5.8 CMS
Runoff	38.72	160.85	208.23	145.06	672.34	1195.26	583.25	157.52	66.90	39.92	25.70	24.13	3317.88 MCM

Momentary Peak 902.05 CMS, at 52.17 M (MSL), at 12.00 Hours, on Sep 28, 1996
Runoff Yield 21.73 Liters/Second/Square KM, Momentary Peak Yield 186.335 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

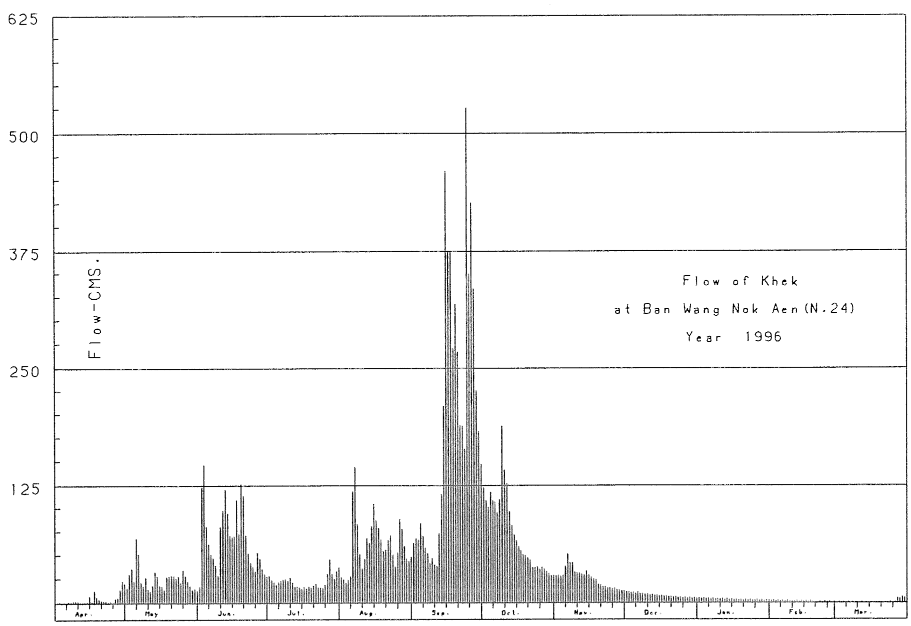
Khek River at Ban Wang Nok Aen, Phitsanulok (N.24)

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	+14.536 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965-1974, 1980 to date.
Rated by Float	-
Rated by Current Meter	1965-1974, 1980 to date.
Stability of Channel Regimes	Fairly stable by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.66	1.82	1.87	2.53	2.48	3.93	5.67	2.59	1.95	1.53	1.34	1.21	
2	0.62	2.63	5.69	2.32	2.30	4.11	5.34	2.55	1.92	1.52	1.34	1.20	
3	0.58	2.93	6.28	2.14	2.13	4.04	5.15	2.55	1.90	1.52	1.33	1.20	
4	0.57	2.21	4.53	2.03	2.28	4.63	5.57	2.56	1.88	1.51	1.32	1.20	
5	0.57	4.11	3.91	2.17	2.52	4.19	5.34	3.00	1.86	1.50	1.32	1.19	
6	0.65	3.52	3.50	2.24	5.57	3.76	5.28	3.55	1.91	1.49	1.31	1.19	
7	0.66	2.15	3.38	2.33	6.23	3.58	5.01	3.15	1.85	1.48	1.30	1.19	
8	0.72	1.90	3.04	2.33	4.62	3.15	5.35	3.19	1.82	1.48	1.30	1.18	
9	0.77	2.47	2.57	2.27	3.51	3.34	7.18	2.77	1.81	1.47	1.29	1.18	
10	0.69	1.75	4.50	2.42	2.93	3.06	6.16	2.70	1.79	1.46	1.28	1.17	
11	0.65	1.55	5.06	2.13	3.34	3.03	5.78	2.73	1.77	1.45	1.28	1.17	
12	0.62	1.93	5.64	1.91	4.10	4.26	5.05	2.64	1.76	1.44	1.27	1.17	
13	0.65	2.78	5.01	1.88	3.95	5.51	4.55	2.62	1.75	1.43	1.27	1.17	
14	0.65	2.52	4.19	1.86	4.52	7.57	4.24	2.80	1.73	1.43	1.26	1.17	
15	1.22	1.97	4.16	1.75	5.24	10.90	4.02	2.62	1.72	1.43	1.26	1.17	
16	0.64	1.89	4.17	1.86	4.75	9.99	3.83	2.46	1.70	1.42	1.26	1.17	
17	1.65	1.69	5.35	1.78	4.48	9.98	3.67	2.38	1.69	1.41	1.25	1.17	
18	1.16	2.50	4.27	1.87	4.05	8.61	3.53	2.32	1.67	1.40	1.27	1.17	
19	0.99	2.51	5.77	1.85	3.65	9.28	3.47	2.26	1.66	1.40	1.25	1.16	
20	0.83	2.60	5.45	1.93	3.68	8.54	3.39	2.22	1.65	1.40	1.25	1.15	
21	0.74	2.53	4.21	2.06	4.06	7.18	3.28	2.18	1.64	1.39	1.24	1.15	
22	0.71	2.39	3.58	1.85	4.19	7.18	2.98	2.16	1.63	1.39	1.23	1.16	
23	0.69	2.53	3.18	1.80	3.49	6.68	2.95	2.12	1.61	1.39	1.23	1.15	
24	0.66	2.12	2.98	1.79	3.01	11.57	3.00	2.11	1.60	1.38	1.22	1.15	
25	0.61	2.85	2.80	1.98	3.61	9.68	2.91	2.09	1.59	1.38	1.22	1.14	
26	0.96	2.57	3.57	2.68	4.77	10.57	2.97	2.08	1.58	1.37	1.22	1.14	
27	1.12	2.24	3.35	3.32	4.44	9.49	2.91	2.05	1.57	1.37	1.21	1.55	
28	1.70	1.91	2.88	2.62	3.84	7.88	2.77	2.01	1.55	1.36	1.21	1.46	
29	2.23	1.70	2.66	2.37	3.32	7.05	2.67	2.00	1.55	1.35		1.64	
30	2.07	1.73	2.48	2.78	3.24	6.29	2.60	1.97	1.54	1.35		1.52	
31		1.65		2.94	3.40		2.56		1.53	1.34		1.50	
Mean	0.90	2.31	4.00	2.19	3.80	6.63	4.17	2.48	1.72	1.43	1.27	1.23	
Max	2.23	4.11	6.28	3.32	6.23	11.57	7.18	3.55	1.95	1.53	1.34	1.64	11.57
Min	0.57	1.55	1.87	1.75	2.13	3.03	2.56	1.97	1.53	1.34	1.21	1.14	0.57

Annual Max Momentary Gage Height 11.91 M (A.D), at 6.00 Hours, on Sep 24, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.24 M (A.D)
Left Bank Elevation 14.00 M (A.D)
Right Bank Elevation 14.61 M (A.D), Drainage Area 1861 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.65	16.53	17.36	28.78	27.90	63.90	122.80	29.82	12.60	5.29	2.97	1.60	
2	1.35	30.60	123.60	25.10	24.75	69.30	109.60	29.12	12.00	5.16	2.97	1.50	
3	1.11	37.25	147.20	21.95	21.78	67.20	102.00	29.12	11.60	5.16	2.87	1.50	
4	1.06	23.18	81.90	20.02	24.40	84.90	118.80	29.30	11.20	5.03	2.76	1.50	
5	1.06	69.30	63.30	22.48	28.60	71.70	109.60	39.00	10.80	4.90	2.76	1.43	
6	1.57	52.00	51.50	23.70	118.80	58.80	107.20	52.75	11.80	4.77	2.65	1.43	
7	1.65	22.13	48.50	25.27	145.20	53.50	96.40	42.75	10.60	4.64	2.55	1.43	
8	2.10	17.85	40.00	25.27	84.60	42.75	110.00	43.75	10.00	4.64	2.55	1.35	
9	2.48	27.73	29.47	24.22	51.75	47.50	189.00	33.40	9.80	4.51	2.44	1.35	
10	1.87	15.40	81.00	26.85	37.25	40.50	142.40	32.00	9.43	4.38	2.34	1.27	
11	1.57	12.20	98.40	21.78	47.50	39.75	127.20	32.60	9.09	4.25	2.34	1.27	
12	1.35	18.34	121.60	18.01	69.00	73.80	98.00	30.80	8.92	4.12	2.23	1.27	
13	1.57	33.60	96.40	17.52	64.50	116.40	82.50	30.40	8.75	3.99	2.23	1.27	
14	1.57	28.60	71.70	17.19	81.60	209.35	73.20	34.00	8.41	3.99	2.13	1.27	
15	7.28	19.01	70.80	15.40	105.60	460.00	66.60	30.40	8.24	3.99	2.13	1.27	
16	1.50	17.69	71.10	17.19	88.50	375.20	60.90	27.55	7.90	3.86	2.13	1.27	
17	13.80	14.44	110.00	15.88	80.40	374.40	56.10	26.15	7.73	3.73	2.02	1.27	
18	6.52	28.25	74.10	17.36	67.50	271.65	52.25	25.10	7.39	3.60	2.23	1.27	
19	4.51	28.43	126.80	17.03	55.50	318.40	50.75	20.52	7.22	3.60	2.02	1.20	
20	2.99	30.00	114.00	18.34	56.40	267.10	48.75	19.24	7.05	3.60	2.02	1.12	
21	2.25	28.78	72.30	20.55	67.80	189.00	46.00	18.10	6.88	3.50	1.92	1.12	
22	2.02	26.33	53.50	17.03	71.70	189.00	38.50	17.60	6.71	3.50	1.81	1.20	
23	1.87	28.78	43.50	16.20	51.25	164.60	37.75	16.60	6.37	3.50	1.81	1.12	
24	1.65	21.60	38.50	16.04	39.25	527.85	39.00	16.35	6.20	3.39	1.71	1.12	
25	1.27	35.25	34.00	19.17	54.30	350.40	36.75	15.85	6.07	3.39	1.71	1.05	
26	4.22	29.47	53.25	31.60	89.10	427.00	38.25	15.60	5.94	3.29	1.71	1.05	
27	6.04	23.70	47.75	47.00	79.20	335.20	36.75	14.85	5.81	3.29	1.60	5.55	
28	14.60	18.01	36.00	30.40	61.20	226.80	33.40	13.85	5.55	3.18	1.60	4.38	
29	23.53	14.60	31.20	25.97	47.00	182.50	31.40	13.60	5.55	3.08		6.88	
30	20.72	15.08	27.90	33.60	45.00	147.60	30.00	13.00	5.42	3.08		5.16	
31		13.80		37.50	49.00		29.30		5.29	2.97		4.90	
Total	136.73	797.93	2076.63	714.40	1936.33	5846.05	2321.15	793.17	256.32	123.38	62.21	60.37	15124.67 CMSDAY
Mean	4.56	25.74	69.22	23.05	62.46	194.87	74.88	26.44	8.27	3.98	2.22	1.95	41.44 CMS
Max	23.53	69.30	147.20	47.00	145.20	527.85	189.00	52.75	12.60	5.29	2.97	6.88	527.85 CMS
Min	1.06	12.20	17.36	15.40	21.78	39.75	29.30	13.00	5.29	2.97	1.60	1.05	1.05 CMS
Runoff	11.813	68.941	179.421	61.724	167.299	505.099	200.547	68.530	22.146	10.660	5.375	5.216	1306.772 MCM

Momentary Peak 565.20 CMS, at 11.91 M (A.D), at 6.00 Hours, on Sep 24, 1996

Runoff Yield 22.27 Liters/Second/Square KM, Momentary Peak Yield 303.708 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

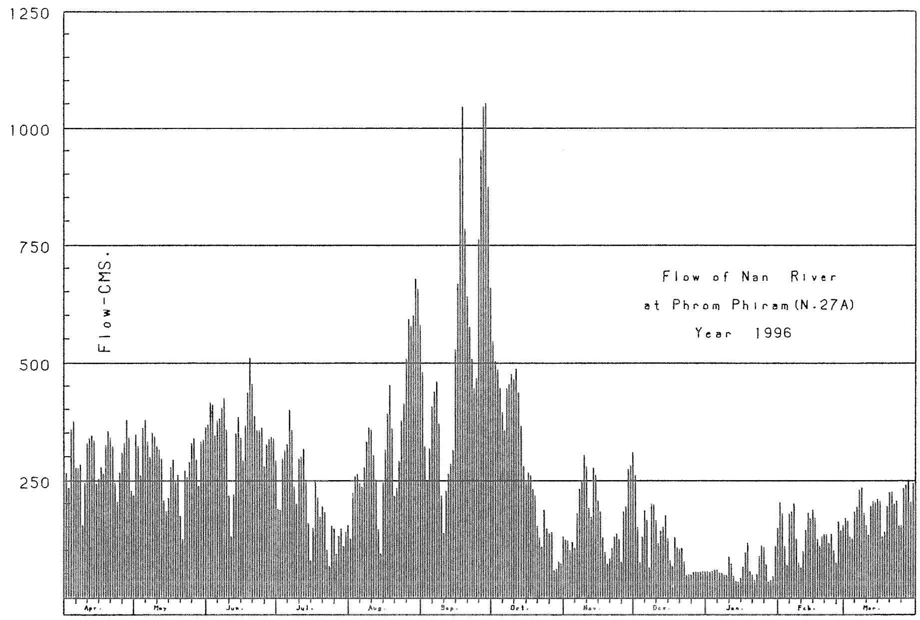
Nan River at Phrom Phiram, Phitsanulok (N.27A)

Location	Lat. 17°01′54″ N., Long. 100°11′05″ E., on right bank about 1,800 meters downstream from Naresuan Dam, Amphoe Phrom Phiram, Phitsanulok.
Drainage Area	19,540 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+38.43 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	About 10 meters from the top staff gage.
Elevation	+48.572 m.(M.S.L)
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. Flow regulated by Naresuan Dam. Stage-discharge relation defined by 20 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.93	42.76	42.97	41.06	40.30	44.02	44.61	40.27	41.90	39.27	41.21	40.83	
2	41.60	42.52	43.43	41.03	41.46	42.52	44.24	40.23	40.60	39.27	40.94	40.77	
3	42.87	41.89	43.40	42.26	41.87	41.74	44.07	39.95	39.58	39.29	40.07	40.34	
4	43.05	42.90	42.74	42.43	41.91	42.46	43.72	40.20	40.35	39.34	39.50	40.30	
5	42.06	43.08	43.06	42.56	41.69	43.36	43.24	40.03	41.01	39.33	40.94	40.99	
6	42.04	42.61	43.11	43.29	41.62	43.64	42.86	40.94	40.78	39.23	40.98	41.12	
7	42.13	42.29	43.34	42.87	42.06	43.84	43.70	41.56	39.42	39.23	41.20	41.54	
8	40.65	42.81	43.51	41.62	42.62	43.00	43.80	41.75	41.19	39.14	40.29	41.61	
9	41.70	42.72	42.87	41.19	42.92	41.39	43.98	42.34	41.18	39.15	39.58	40.96	
10	42.59	42.52	41.40	42.26	42.86	40.45	43.89	42.09	40.77	39.77	39.41	40.65	
11	42.68	42.44	40.36	42.29	42.32	41.51	44.08	41.08	40.15	39.54	39.91	40.41	
12	42.75	42.26	41.42	42.47	41.79	41.92	43.63	40.86	40.51	39.11	40.52	41.14	
13	42.64	41.27	42.78	41.76	40.54	42.14	42.95	42.06	40.61	38.90	40.97	41.25	
14	41.69	41.00	43.13	40.71	39.86	42.44	42.10	41.89	40.91	38.86	40.83	41.23	
15	41.80	41.34	42.70	39.65	41.72	44.46	41.73	41.28	40.30	39.04	41.04	41.31	
16	42.07	42.06	42.21	40.58	42.44	45.71	41.94	41.00	39.64	39.44	40.82	41.25	
17	41.92	42.24	42.95	41.74	43.21	47.38	41.89	40.34	39.46	39.90	40.26	40.36	
18	42.54	41.75	43.63	41.34	43.77	47.77	41.57	39.90	40.34	40.17	40.09	40.48	
19	42.84	41.89	44.30	40.86	42.90	46.56	41.40	39.55	40.04	39.29	40.35	41.14	
20	42.70	40.89	43.79	41.13	41.39	45.47	40.63	39.70	39.98	39.15	40.42	41.48	
21	42.52	40.27	43.17	40.99	41.58	44.90	40.32	40.01	40.03	38.94	40.41	41.49	
22	41.70	41.99	42.86	39.96	42.21	44.28	40.07	40.35	39.61	39.18	40.17	41.20	
23	41.23	41.83	42.85	39.47	43.05	43.70	41.04	40.43	39.15	39.78	40.43	41.26	
24	41.95	42.17	42.92	40.64	43.42	43.90	40.58	40.28	39.16	40.10	39.95	40.65	
25	42.39	42.58	42.09	40.57	44.28	46.42	40.45	39.61	39.17	40.04	39.58	40.65	
26	42.58	42.69	42.55	39.84	45.04	47.45	40.47	40.99	39.25	39.53	40.74	41.59	
27	43.08	42.24	42.68	40.37	44.91	47.77	39.32	41.12	39.27	38.88	40.52	41.66	
28	42.70	41.64	42.71	40.56	45.11	47.79	39.36	42.02	39.24	38.93	40.64	41.79	
29	41.51	42.61	42.68	40.08	45.79	47.10	39.61	42.11	39.27	39.09		41.24	
30	41.41	42.66	42.21	40.48	45.61	45.64	39.54	42.39	39.27	40.09		41.70	
31		42.93		40.64	44.93		40.35		39.27	40.59		41.28	
Mean	42.18	42.16	42.79	41.18	42.75	44.36	41.97	40.88	40.05	39.41	40.42	41.09	
Max	43.08	43.08	44.30	43.29	45.79	47.79	44.61	42.39	41.90	40.59	41.21	41.79	47.79
Min	40.65	40.27	40.36	39.47	39.86	40.45	39.32	39.55	39.15	38.86	39.41	40.30	38.86

Annual Max Momentary Gage Height 47.88 M (MSL), at 6.00 Hours, on Sep 18, 1996
Zero Gage at Bottom Elevation 38.43 M (MSL), River Bed 37.47 M (MSL)
Left Bank Elevation 48.78 M (MSL)
Right Bank Elevation 48.49 M (MSL), Drainage Area 19540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	266.4	348.0	369.0	190.1	127.5	481.2	546.1	125.2	263.5	56.2	202.9	170.6	
2	236.0	324.0	416.3	187.6	224.1	324.0	505.4	122.2	151.0	56.2	179.9	165.5	
3	359.0	262.5	413.0	298.0	260.6	248.6	486.7	101.5	75.7	57.4	110.2	130.5	
4	377.0	362.0	346.0	315.0	264.5	318.0	448.2	120.0	131.2	60.4	70.5	127.5	
5	278.7	380.0	378.0	328.0	244.1	408.8	396.2	107.2	185.8	59.8	179.9	184.2	
6	276.8	333.0	383.0	401.4	237.8	439.4	358.0	179.9	166.3	53.8	183.3	195.2	
7	285.4	301.0	406.7	359.0	278.7	461.4	446.0	232.6	65.3	53.8	202.0	230.9	
8	155.3	353.0	425.1	237.8	334.0	372.0	457.0	249.5	201.2	48.7	126.7	236.9	
9	245.0	344.0	359.0	201.2	364.0	218.2	476.8	306.0	200.3	49.3	75.7	181.6	
10	331.0	324.0	219.0	298.0	358.0	139.0	466.9	281.5	165.5	88.9	64.6	155.3	
11	340.0	316.0	132.0	301.0	304.0	228.3	487.8	191.8	116.3	73.1	98.7	135.8	
12	347.0	298.0	220.7	319.0	253.1	265.4	438.3	173.1	143.8	47.1	144.6	196.9	
13	336.0	208.0	350.0	250.4	146.2	286.3	367.0	278.7	151.9	36.0	182.5	206.3	
14	244.1	185.0	385.0	160.4	95.2	316.0	282.5	262.5	177.4	34.0	170.6	204.6	
15	254.0	213.9	342.0	80.5	246.8	529.6	247.7	208.8	127.5	43.2	188.4	211.4	
16	279.6	278.7	293.0	149.4	316.0	669.7	267.3	185.0	79.8	66.6	169.7	206.3	
17	265.4	296.0	367.0	248.6	393.0	935.5	262.5	130.5	67.9	98.0	124.5	132.0	
18	326.0	249.5	438.3	213.9	453.7	1046.7	233.5	98.0	130.5	117.7	111.7	141.4	
19	356.0	262.5	512.0	173.1	362.0	785.0	219.0	73.8	108.0	57.4	131.2	196.9	
20	342.0	175.7	455.9	196.1	218.2	641.1	153.6	84.0	103.6	49.3	136.6	225.8	
21	324.0	125.2	389.0	184.2	234.3	578.0	129.0	105.7	107.2	38.0	135.8	226.7	
22	245.0	272.1	358.0	102.2	293.0	509.8	110.2	131.2	77.7	50.9	117.7	202.0	
23	204.6	256.9	357.0	68.6	377.0	446.0	188.4	137.4	49.3	89.6	137.4	207.1	
24	268.3	289.1	364.0	154.4	415.2	468.0	149.4	126.0	49.8	112.5	101.5	155.3	
25	311.0	330.0	281.5	148.6	509.8	764.0	139.0	77.7	50.3	108.0	75.7	155.3	
26	330.0	341.0	327.0	93.8	593.4	953.5	140.6	184.2	55.0	72.4	162.9	235.2	
27	380.0	296.0	340.0	132.7	579.1	1046.7	59.2	195.2	56.2	35.0	144.6	241.4	
28	342.0	239.6	343.0	147.8	601.1	1052.9	61.6	274.9	54.4	37.5	154.4	253.1	
29	228.3	333.0	340.0	111.0	679.8	875.5	77.7	283.5	56.2	45.9		205.4	
30	219.9	338.0	293.0	141.4	657.3	661.0	73.1	311.0	56.2	111.7		245.0	
31		365.0		154.4	581.3		131.2		56.2	150.2		208.8	
Total	8753.8	9000.7	10603.5	6347.6	11002.8	16469.6	8805.9	5338.6	3481.0	2058.6	3884.2	5970.9	91717.2 CMSDAY
Mean	291.8	290.3	353.5	204.8	354.9	549.0	284.1	178.0	112.3	66.4	138.7	192.6	251.3 CMS
Max	380.0	380.0	512.0	401.4	679.8	1052.9	546.1	311.0	263.5	150.2	202.9	253.1	1052.9 CMS
Min	155.3	125.2	132.0	68.6	95.2	139.0	59.2	73.8	49.3	34.0	64.6	127.5	34.0 CMS
Runoff	756.33	777.66	916.14	548.43	950.64	1422.97	760.83	461.26	300.76	177.86	335.59	515.89	7924.37 MCM

Momentary Peak 1086.40 CMS, at 47.88 M (MSL), at 6.00 Hours, on Sep 18, 1996
Runoff Yield 12.86 Liters/Second/Square KM, Momentary Peak Yield 55.599 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

Nam Khwae Noi at Ban Nong Krathao, Phitsanulok (N.36)

Location — Lat. 17°04'59" N., Long. 100°49'55" E., on left bank about 50 meters upstream from the bridge along Lom Sak-Nakhon Thai road, Amphoe Nakhon Thai, Phitsanulok.

Drainage Area — 1,651 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 measuring line.

Elevation — +6.154 m. (A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1967 to date.

Rating Operation

Period of Rating — 1971-1979, 1993 to date.

Rated by Float — -

Rated by Current Meter — 1971-1979, 1993 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation +7.05 m.(A.D.) and is included.

General Description — Records fair. Flow requlated by the local weir about 20 meters downstream from thr gage site. Stage-discharge relation defined by 10 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

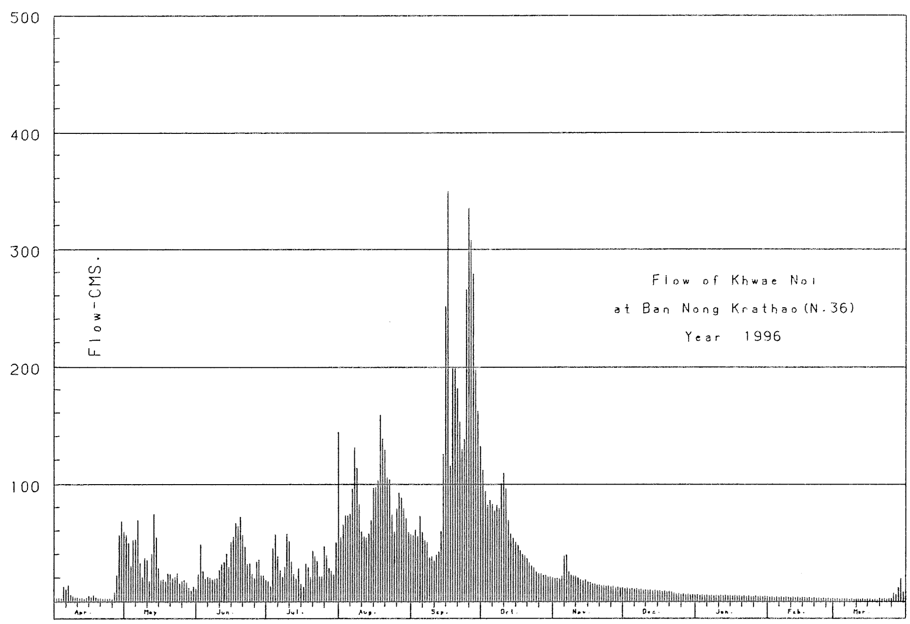
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	4.81	2.85	2.33	4.60	4.83	6.77	2.59	1.82	1.41	1.24	1.06	
2	0.85	4.17	4.06	1.97	5.41	5.22	6.42	2.58	1.80	1.40	1.23	1.05	
3	0.87	3.25	3.07	3.87	5.71	4.71	6.02	2.56	1.79	1.40	1.22	1.05	
4	1.89	4.37	2.50	4.91	5.71	5.71	6.18	2.74	1.79	1.39	1.21	1.05	
5	1.74	4.47	2.71	3.58	5.78	5.09	6.05	3.60	1.78	1.39	1.21	1.04	
6	2.06	5.57	2.60	3.08	6.46	4.42	5.88	3.66	1.77	1.38	1.21	1.04	
7	1.26	3.33	2.50	2.70	7.01	4.21	6.02	3.06	1.75	1.37	1.20	1.03	
8	1.06	2.67	2.51	3.23	6.81	3.56	5.95	2.83	1.71	1.36	1.20	1.03	
9	0.98	3.52	2.60	4.93	6.04	3.58	6.54	2.79	1.68	1.36	1.19	1.02	
10	0.95	3.46	3.11	4.33	5.10	3.45	6.73	2.74	1.67	1.36	1.19	1.02	
11	0.89	2.33	3.30	3.42	4.73	3.63	6.45	2.66	1.66	1.35	1.19	1.02	
12	0.88	3.69	3.40	2.88	4.58	3.77	5.57	2.47	1.64	1.35	1.18	1.02	
13	0.83	5.77	3.70	2.56	4.98	5.18	4.89	2.44	1.63	1.35	1.18	1.01	
14	0.88	4.65	3.20	3.15	5.56	6.95	4.59	2.46	1.62	1.34	1.17	1.01	
15	1.15	3.15	4.20	2.13	6.46	7.46	4.23	2.33	1.61	1.34	1.16	1.00	
16	0.95	2.42	4.66	1.92	6.47	7.60	4.01	2.26	1.59	1.33	1.16	0.99	
17	1.22	2.47	5.45	3.32	6.60	6.83	3.80	2.20	1.57	1.33	1.15	0.98	
18	0.93	2.35	5.37	3.22	7.20	7.36	3.68	2.14	1.56	1.32	1.14	0.98	
19	0.90	2.98	5.68	2.67	7.06	7.36	3.61	2.10	1.55	1.32	1.14	0.98	
20	0.84	2.87	4.81	3.80	7.00	7.29	3.53	2.07	1.54	1.30	1.13	1.07	
21	0.84	2.60	3.94	3.59	6.64	7.16	3.36	2.04	1.53	1.30	1.12	1.06	
22	0.82	2.66	3.30	3.44	6.62	7.00	3.27	2.02	1.52	1.29	1.11	1.05	
23	0.82	2.95	3.35	2.74	5.73	7.06	3.18	2.00	1.49	1.29	1.10	1.04	
24	0.81	2.18	2.89	2.71	5.08	7.48	3.05	1.98	1.47	1.28	1.10	1.04	
25	0.78	2.40	2.61	3.96	5.93	7.58	2.99	1.96	1.46	1.28	1.09	1.11	
26	1.46	2.41	3.41	3.62	6.37	7.54	2.92	1.94	1.45	1.28	1.08	1.38	
27	2.77	2.28	3.46	3.18	6.25	7.50	2.85	1.92	1.44	1.27	1.07	1.30	
28	4.85	1.81	2.82	3.06	5.92	7.35	2.80	1.89	1.43	1.27	1.07	1.89	
29	5.51	1.63	2.76	2.88	5.61	7.21	2.73	1.87	1.42	1.26		2.56	
30	5.10	1.91	2.46	4.20	5.10	7.02	2.67	1.85	1.41	1.26		1.52	
31		1.77		7.10	4.84		2.62		1.41	1.25		1.25	
Mean	1.53	3.13	3.44	3.37	5.91	6.04	4.50	2.39	1.60	1.33	1.16	1.15	
Max	5.51	5.77	5.68	7.10	7.20	7.60	6.77	3.66	1.82	1.41	1.24	2.56	7.60
Min	0.78	1.63	2.46	1.92	4.58	3.45	2.62	1.85	1.41	1.25	1.07	0.98	0.78

Annual Max Momentary Gage Height 7.63 M (A.D), at 6.00 Hours, on Sep 16, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.93 M (A.D)

Left Bank Elevation 7.05 M (A.D)

Right Bank Elevation 7.16 M (A.D), Drainage Area 1651 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.25	57.10	23.35	17.63	55.00	57.30	112.50	20.49	12.02	6.33	4.76	3.14	
2	3.18	50.70	49.60	13.67	66.25	61.50	95.00	20.38	11.80	6.20	4.67	3.05	
3	3.33	31.00	26.68	45.88	73.75	56.10	82.60	20.16	11.70	6.20	4.58	3.05	
4	12.79	52.70	19.50	58.10	73.75	73.75	87.40	22.14	11.70	6.11	4.49	3.05	
5	11.20	53.70	21.81	38.92	75.50	59.90	83.50	39.40	11.60	6.11	4.49	2.96	
6	14.66	70.25	20.60	26.92	97.00	53.20	78.40	40.84	11.50	6.02	4.49	2.96	
7	6.54	32.92	19.50	21.70	131.50	51.10	82.60	26.44	11.30	5.93	4.40	2.87	
8	4.81	21.37	19.61	30.52	114.80	38.44	80.50	23.13	10.90	5.84	4.40	2.87	
9	4.15	37.48	20.60	58.30	83.20	38.92	101.00	22.69	10.60	5.84	4.31	2.78	
10	3.93	36.04	27.64	52.30	60.00	35.80	110.50	22.14	10.50	5.84	4.31	2.78	
11	3.48	17.63	32.20	35.08	56.30	40.12	96.50	21.26	10.40	5.75	4.31	2.78	
12	3.40	41.56	34.60	23.68	54.80	43.48	70.25	19.17	10.20	5.75	4.22	2.78	
13	3.02	75.25	41.80	20.16	58.80	60.80	57.90	18.84	10.10	5.75	4.22	2.69	
14	3.40	55.50	29.80	28.60	70.00	126.00	54.90	19.06	10.00	5.66	4.13	2.69	
15	5.57	28.60	51.00	15.43	97.00	252.00	51.30	17.63	9.90	5.66	4.04	2.60	
16	3.93	18.62	55.60	13.12	97.50	350.00	49.10	16.86	9.70	5.57	4.04	2.53	
17	6.18	19.17	67.25	32.68	104.00	116.40	44.20	16.20	9.50	5.57	3.95	2.46	
18	3.78	17.85	65.25	30.28	160.00	200.00	41.32	15.54	9.40	5.48	3.86	2.46	
19	3.55	24.78	73.00	21.37	139.00	200.00	39.64	15.10	9.30	5.48	3.86	2.46	
20	3.10	23.57	57.10	44.20	130.00	182.50	37.72	14.77	9.20	5.30	3.77	3.23	
21	3.10	20.60	47.56	39.16	106.00	154.00	33.64	14.44	9.10	5.30	3.68	3.14	
22	2.95	21.26	32.20	35.56	105.00	130.00	31.48	14.22	7.76	5.21	3.59	3.05	
23	2.95	24.45	33.40	22.14	74.25	139.00	29.32	14.00	7.37	5.21	3.50	2.96	
24	2.88	15.98	23.79	21.81	59.80	266.00	26.20	13.78	7.11	5.12	3.50	2.96	
25	2.65	18.40	20.71	48.04	79.90	336.00	24.89	13.56	6.98	5.12	3.41	3.59	
26	8.40	18.51	34.84	39.88	93.10	308.00	24.12	13.34	6.85	5.12	3.32	7.62	
27	22.47	17.08	36.04	29.32	89.50	280.00	23.35	13.12	6.72	5.03	3.23	6.90	
28	57.50	11.91	23.02	26.44	79.60	197.50	22.80	12.79	6.59	5.03	3.23	12.79	
29	68.75	10.10	22.36	23.68	71.25	162.50	22.03	12.57	6.46	4.94		20.16	
30	60.00	13.01	19.06	51.00	60.00	133.00	21.37	12.35	6.33	4.94		9.00	
31		11.50		145.00	57.40		20.82		6.33	4.85		6.45	
Total	338.90	948.59	1049.47	1110.57	2673.95	4203.31	1736.85	566.41	288.92	172.26	112.76	134.81	13336.80 CMSDAY
Mean	11.30	30.60	34.98	35.82	86.26	140.11	56.03	18.88	9.32	5.56	4.03	4.35	36.54 CMS
Max	68.75	75.25	73.00	145.00	160.00	350.00	112.50	40.84	12.02	6.33	4.76	20.16	350.00 CMS
Min	2.65	10.10	19.06	13.12	54.80	35.80	20.82	12.35	6.33	4.85	3.23	2.46	2.46 CMS
Runoff	29.281	81.958	90.674	95.953	231.029	363.166	150.064	48.938	24.963	14.883	9.742	11.648	1152.300 MCM

Momentary Peak 416.00 CMS, at 7.63 M (A.D), at 6.00 Hours, on Sep 16, 1996

Runoff Yield 22.13 Liters/Second/Square KM, Momentary Peak Yield 251.969 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

Nan River at Ban Thap Krit, Nakhon Sawan.(N.37)

Location — Lat. 15°-45′-19″ N., Long. 100°-15′-35″ E., on left bank about 50 meters downstream from Wat Thap Krit, Amphoe Chum Saeng, Nakhon Sawan.

Drainage Area — 56,214 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 top staff gage.

Elevation — +6.000 m.(A.D.)

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

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

Period of Available Gage Records — 1967 to date.

Rating Operation

Period of Rating — 1967-1974, 1996 to date.

Rated by Float — -

Rated by Current Meter — 1967-1974, 1996 to date.

Stability of Channel Regimes — Stable stable because of backwater effect.

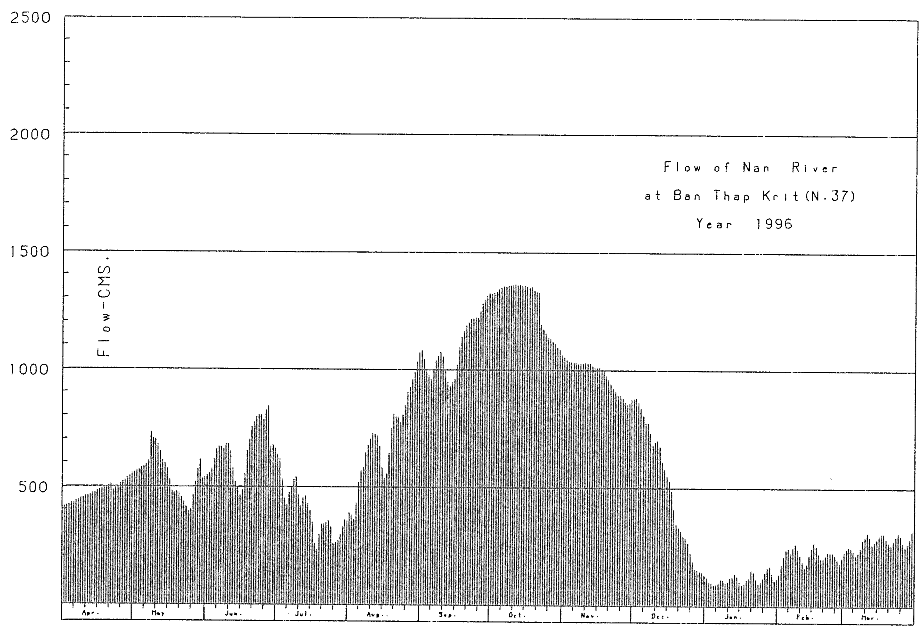
Overbank Flow Conditions — Overbank flow starts at elevation +6.61 m.(A.D.), records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.72	3.53	3.46	3.95	2.57	6.07	7.19	7.26	5.73	0.65	0.77	1.50	
2	2.73	3.57	3.51	3.83	2.51	5.90	7.21	7.18	5.74	0.53	1.12	1.62	
3	2.77	3.60	3.61	3.38	2.40	5.68	7.26	7.16	5.55	0.47	1.36	1.68	
4	2.80	3.63	3.84	2.91	2.81	5.57	7.32	7.12	5.20	0.41	1.60	1.65	
5	2.82	3.66	4.04	2.77	3.30	5.51	7.39	7.12	4.80	0.40	1.64	1.55	
6	2.85	3.70	4.12	3.05	3.56	5.68	7.42	7.11	4.62	0.49	1.50	1.41	
7	2.88	3.79	4.10	3.20	3.66	5.86	7.46	7.08	4.63	0.59	1.65	1.49	
8	2.91	4.42	4.07	3.35	3.98	5.95	7.48	7.09	4.41	0.59	1.77	1.66	
9	2.93	4.28	4.16	3.43	4.15	6.04	7.53	7.10	4.18	0.46	1.61	1.88	
10	2.96	4.28	4.18	3.02	4.28	5.94	7.57	7.10	4.23	0.53	1.42	1.98	
11	2.98	4.15	4.03	2.73	4.40	5.69	7.62	7.10	4.27	0.63	1.21	2.09	
12	3.01	4.01	3.61	2.92	4.39	5.44	7.65	7.09	4.14	0.69	1.02	1.96	
13	3.03	3.79	3.30	2.99	4.34	5.36	7.67	7.02	3.80	0.79	1.12	1.76	
14	3.05	3.74	3.19	2.78	4.13	5.43	7.70	6.95	3.62	0.71	1.41	1.81	
15	3.08	3.60	3.00	2.63	3.65	5.51	7.74	6.96	3.47	0.50	1.63	1.90	
16	3.11	3.35	3.10	2.31	3.39	5.78	7.76	6.96	3.35	0.39	1.80	2.00	
17	3.14	3.10	3.50	1.73	3.51	6.14	7.78	6.91	3.12	0.46	1.71	2.05	
18	3.17	3.04	4.01	1.55	3.97	6.32	7.80	6.83	2.67	0.57	1.46	2.07	
19	3.19	3.08	4.27	2.00	4.51	6.45	7.83	6.69	2.30	0.67	1.33	1.92	
20	3.22	3.04	4.52	2.28	4.80	6.54	7.85	6.53	2.20	0.92	1.30	1.80	
21	3.24	2.95	4.64	2.27	4.75	6.61	7.85	6.38	2.11	0.86	1.41	1.74	
22	3.11	2.83	4.73	2.30	4.74	6.66	7.84	6.19	1.98	0.60	1.50	1.86	
23	3.15	2.72	4.78	2.37	4.63	6.68	7.82	6.02	1.91	0.45	1.51	1.98	
24	3.20	2.58	4.77	2.20	4.78	6.69	7.79	5.91	1.80	0.49	1.49	2.07	
25	3.25	2.65	4.69	1.74	4.98	6.69	7.73	5.85	1.49	0.65	1.43	2.00	
26	3.30	3.00	4.87	1.77	5.23	6.82	7.70	5.73	1.20	0.86	1.26	1.79	
27	3.35	3.30	4.96	1.83	5.34	6.95	7.67	5.57	0.97	0.99	1.16	1.68	
28	3.40	3.60	4.11	1.98	5.49	7.04	7.63	5.40	0.92	1.06	1.32	1.77	
29	3.45	3.81	4.15	2.22	5.65	7.12	7.56	5.50	0.89	0.79		1.92	
30	3.50	3.40	4.07	2.38	5.84	7.19	7.47	5.66	0.83	0.57		2.12	
31		3.40		2.35	6.02		7.35		0.75	0.61		2.24	
Mean	3.08	3.47	4.05	2.59	4.25	6.18	7.60	6.62	3.13	0.63	1.41	1.84	
Max	3.50	4.42	4.96	3.95	6.02	7.19	7.85	7.26	5.74	1.06	1.80	2.24	7.85
Min	2.72	2.58	3.00	1.55	2.40	5.36	7.19	5.40	0.75	0.39	0.77	1.41	0.39

Annual Max Momentary Gage Height 7.86 M (A.D), at 18.00 Hours, on Oct 20, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -3.61 M (A.D)
Left Bank Elevation 6.61 M (A.D)
Right Bank Elevation 7.38 M (A.D), Drainage Area 56214 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	418.4	564.0	551.1	641.7	392.9	1084.1	1325.3	1054.7	881.0	120.0	134.4	227.8	
2	420.1	571.4	560.3	619.5	382.7	1047.5	1328.3	1043.2	881.9	105.6	177.8	243.9	
3	426.9	577.0	578.8	536.4	364.0	1000.2	1334.8	1040.4	866.0	98.4	209.4	252.6	
4	432.0	582.5	621.4	451.8	433.8	976.6	1342.6	1034.8	838.0	91.2	241.0	248.3	
5	435.6	588.1	658.8	426.9	522.0	963.7	1351.7	1034.8	809.0	90.0	246.8	234.4	
6	441.0	595.5	674.4	477.0	569.6	1000.2	1354.2	1033.4	775.1	100.8	227.8	216.0	
7	446.4	612.1	670.5	504.0	588.1	1038.9	1356.6	1029.2	777.2	112.8	248.3	226.5	
8	451.8	734.1	664.7	531.0	647.3	1058.3	1357.8	1030.6	732.0	112.8	265.6	249.7	
9	455.4	706.0	682.2	545.5	680.3	1077.6	1360.8	1032.0	686.1	97.2	242.5	282.0	
10	460.8	706.0	686.1	471.6	706.0	1056.1	1363.2	1032.0	696.0	105.6	217.3	297.0	
11	464.4	680.3	656.9	420.1	730.0	1002.4	1363.8	1032.0	704.0	117.6	189.7	314.4	
12	469.8	653.0	578.8	453.6	728.0	948.6	1362.0	1030.6	678.3	124.8	164.6	294.0	
13	473.4	612.1	522.0	466.2	718.0	931.4	1360.8	1020.8	614.0	136.8	177.8	264.2	
14	477.0	602.9	502.2	428.6	676.4	946.4	1359.0	1011.5	580.7	127.2	216.0	271.5	
15	482.4	577.0	468.0	403.1	586.2	963.7	1356.6	1012.8	553.0	102.0	245.3	285.0	
16	487.8	531.0	486.0	349.6	538.2	1021.7	1355.4	1012.8	531.0	89.0	270.0	300.0	
17	493.2	486.0	558.5	259.8	560.3	1099.1	1354.2	1006.3	489.6	97.2	257.0	308.0	
18	498.6	475.2	653.0	234.4	645.5	1139.0	1353.0	995.9	409.9	110.4	222.6	311.2	
19	502.2	482.4	704.0	300.0	752.6	1168.3	1340.1	978.8	348.0	122.4	205.5	288.0	
20	507.6	475.2	754.6	344.8	812.0	1188.5	1331.5	960.3	332.0	152.4	201.5	270.0	
21	511.2	459.0	779.2	343.2	801.7	1204.3	1331.5	943.9	317.6	145.2	216.0	261.3	
22	487.8	437.4	797.6	348.0	799.7	1215.5	1193.3	924.1	297.0	114.0	227.8	279.0	
23	495.0	418.4	807.9	359.2	777.2	1220.0	1176.7	907.9	286.5	96.0	229.1	297.0	
24	504.0	394.6	805.8	332.0	807.9	1222.3	1157.2	897.4	270.0	100.8	226.5	311.2	
25	513.0	406.5	789.4	261.3	849.8	1222.3	1140.4	891.7	226.5	120.0	218.6	300.0	
26	522.0	468.0	826.7	265.6	903.5	1251.6	1132.0	881.0	188.3	145.2	196.2	268.5	
27	531.0	522.0	845.6	274.5	927.1	1281.5	1123.6	867.6	158.4	160.8	183.1	252.6	
28	540.0	577.0	672.5	297.0	959.3	1299.8	1112.4	854.0	152.4	169.9	204.1	265.6	
29	549.2	615.8	680.3	335.2	993.8	1313.4	1098.2	862.0	148.8	136.8		288.0	
30	558.5	540.0	664.7	360.8	1034.6	1325.3	1085.2	875.1	141.6	110.4		319.2	
31		540.0		356.0	1073.3		1067.8		132.0	115.2		338.4	
Total	14456.5	17190.5	19902.0	12398.4	21961.8	33268.3	39630.0	29331.6	15501.9	3628.5	6062.3	8565.3	221897.1 CMSDAY
Mean	481.9	554.5	663.4	399.9	708.4	1108.9	1278.4	977.7	500.1	117.0	216.5	276.3	607.9 CMS
Max	558.5	734.1	845.6	641.7	1073.3	1325.3	1363.8	1054.7	881.9	169.9	270.0	338.4	1363.8 CMS
Min	418.4	394.6	468.0	234.4	364.0	931.4	1067.8	854.0	132.0	89.0	134.4	216.0	89.0 CMS
Runoff	1249.04	1485.26	1719.53	1071.22	1897.50	2874.38	3424.03	2534.25	1339.36	313.50	523.78	740.04	19171.91 MCM

Momentary Peak 1327.20 CMS, at 7.86 M (A.D), at 18.00 Hours, on Oct 20, 1996

Runoff Yield 10.81 Liters/Second/Square KM, Momentary Peak Yield 23.610 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

Nam Khwae Noi at Ban Nong Bon, Phitsanulok (N.40)

Location — Lat. 17°-13′-14″ N., Long. 100°-21′-10″ E., on left bank about 2 kilometers upstream from Ban Nong Bon, Amphoe Wat Bot, Phitsanulok.

Drainage Area — 4,340 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

Location — Near the gage site.

Elevation — B.M.= +14.030 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 — Fairly stable.

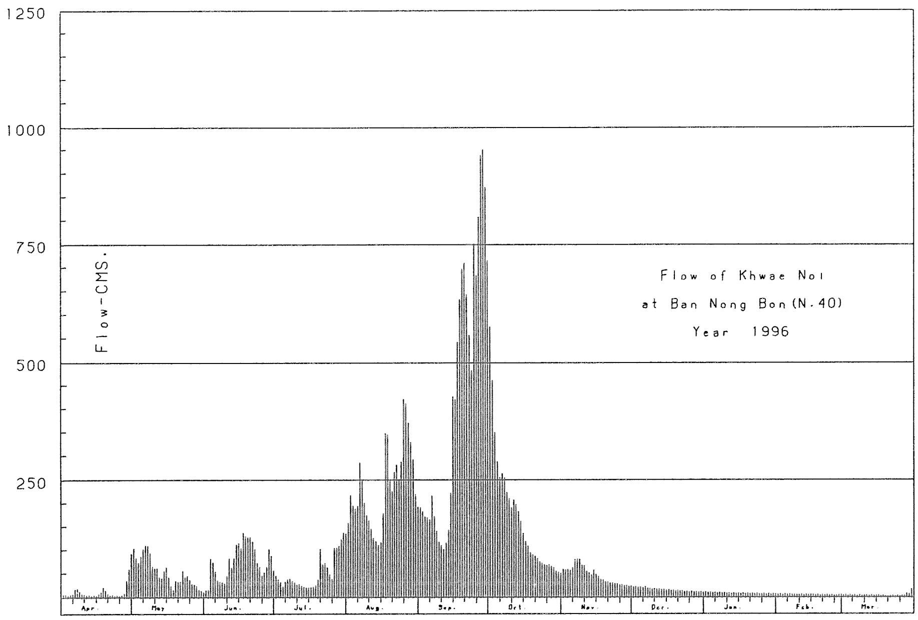
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 87 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	3.85	1.29	2.42	4.92	5.49	10.65	2.79	1.65	1.15	0.94	0.80	
2	0.79	3.36	1.37	2.17	5.91	5.33	9.35	2.73	1.61	1.15	0.93	0.79	
3	0.75	3.11	3.33	1.95	5.58	5.16	7.86	2.77	1.60	1.14	0.92	0.79	
4	0.76	3.47	3.16	1.66	5.44	5.10	7.01	2.70	1.59	1.13	0.91	0.78	
5	0.96	3.79	2.65	2.03	5.55	5.03	6.49	2.87	1.57	1.12	0.91	0.78	
6	1.37	3.98	2.12	2.17	6.98	5.91	6.63	3.29	1.60	1.11	0.90	0.77	
7	1.49	3.94	1.98	2.24	6.44	5.18	6.48	3.31	1.53	1.10	0.89	0.77	
8	1.18	3.63	1.95	2.05	5.65	4.56	6.03	3.33	1.47	1.09	0.88	0.77	
9	0.99	2.92	1.90	1.97	5.22	4.12	5.80	3.01	1.45	1.08	0.88	0.76	
10	0.84	2.84	2.40	1.82	4.99	3.95	5.51	2.96	1.45	1.07	0.87	0.76	
11	0.79	2.81	3.34	1.83	4.69	3.77	5.77	2.69	1.43	1.06	0.86	0.76	
12	0.75	2.34	2.88	1.72	4.27	4.08	5.61	2.57	1.42	1.05	0.86	0.76	
13	0.73	2.22	3.34	1.58	4.15	4.64	5.37	2.47	1.41	1.04	0.86	0.75	
14	0.73	2.69	4.02	1.58	3.96	5.99	4.97	2.72	1.39	1.04	0.86	0.74	
15	0.74	2.87	4.04	1.52	4.10	8.87	4.48	2.51	1.37	1.03	0.86	0.74	
16	0.86	2.32	3.83	1.55	5.27	8.81	4.15	2.36	1.36	1.03	0.85	0.74	
17	1.19	1.67	4.52	1.62	7.84	10.31	3.93	2.19	1.33	1.03	0.85	0.73	
18	1.54	1.37	4.35	1.72	7.79	11.16	3.64	2.13	1.31	1.03	0.85	0.73	
19	1.35	2.05	4.32	2.18	6.41	11.61	3.53	2.04	1.31	1.03	0.84	0.72	
20	0.94	2.03	4.32	3.80	6.05	11.68	3.48	2.00	1.30	1.02	0.84	0.72	
21	0.81	2.01	4.15	3.05	6.66	11.23	3.35	1.95	1.29	1.01	0.83	0.71	
22	0.75	2.71	3.79	3.10	6.91	10.48	3.20	1.92	1.28	1.00	0.82	0.71	
23	0.73	2.34	3.13	2.89	6.41	9.61	3.10	1.88	1.25	0.99	0.81	0.71	
24	0.72	2.38	2.88	2.47	6.98	11.93	3.05	1.85	1.22	0.99	0.80	0.71	
25	0.72	2.16	2.43	2.21	8.81	11.52	3.01	1.81	1.21	0.99	0.80	0.71	
26	0.73	1.84	2.59	3.84	8.67	12.23	3.02	1.79	1.20	0.98	0.80	0.68	
27	1.05	1.83	2.92	3.87	8.14	12.80	2.95	1.76	1.19	0.97	0.80	0.76	
28	2.10	1.68	3.82	3.92	7.57	12.84	2.85	1.73	1.18	0.96	0.80	1.00	
29	2.79	1.38	3.48	4.23	7.07	12.53	2.70	1.70	1.18	0.95		1.00	
30	3.57	1.25	2.69	4.50	5.92	11.71	2.60	1.68	1.17	0.95		1.43	
31		1.20		4.44	5.53		2.55		1.16	0.95		1.16	
Mean	1.12	2.52	3.10	2.52	6.13	8.25	4.81	2.38	1.37	1.04	0.86	0.80	
Max	3.57	3.98	4.52	4.50	8.81	12.84	10.65	3.33	1.65	1.15	0.94	1.43	12.84
Min	0.72	1.20	1.29	1.52	3.96	3.77	2.55	1.68	1.16	0.95	0.80	0.68	0.68

Annual Max Momentary Gage Height 12.85 M (A.D), at 9.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.43 M (A.D)
Left Bank Elevation 13.47 M (A.D)
Right Bank Elevation 12.96 M (A.D), Drainage Area 4340 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.9	106.5	15.2	47.7	160.6	192.4	577.2	61.6	24.2	12.0	8.1	6.0	
2	5.9	84.4	17.2	39.1	219.1	183.1	464.3	59.2	23.3	12.0	8.0	5.9	
3	5.3	74.4	83.2	32.5	197.8	173.8	352.5	60.8	23.0	11.8	7.8	5.9	
4	5.4	89.2	76.4	24.5	189.4	170.5	291.7	58.0	22.8	11.6	7.7	5.7	
5	8.4	103.6	56.0	34.9	196.0	166.7	256.8	64.8	22.3	11.4	7.7	5.7	
6	17.2	113.0	37.6	39.1	289.6	219.1	266.0	81.6	23.0	11.2	7.5	5.5	
7	20.2	111.0	33.4	41.4	253.6	174.9	256.2	82.4	21.2	11.0	7.4	5.5	
8	12.6	96.4	32.5	35.5	202.3	142.0	227.0	83.2	19.7	10.8	7.2	5.5	
9	8.9	66.8	31.0	33.1	177.1	120.0	212.0	70.4	19.3	10.6	7.2	5.4	
10	6.6	63.6	47.0	28.6	164.4	111.5	193.6	68.4	19.3	10.4	7.1	5.4	
11	5.9	62.4	83.6	28.9	148.5	102.7	210.1	57.6	18.7	10.2	6.9	5.4	
12	5.3	44.9	65.2	26.0	127.5	118.0	199.7	53.0	18.5	10.0	6.9	5.4	
13	5.0	40.7	83.6	22.5	121.5	146.0	185.3	49.5	18.2	9.8	6.9	5.3	
14	5.0	57.6	115.0	22.5	112.0	224.3	163.3	58.8	17.7	9.8	6.9	5.1	
15	5.1	64.8	116.0	21.0	119.0	428.2	138.0	50.9	17.2	9.6	6.9	5.1	
16	6.9	44.2	105.5	21.7	179.8	423.8	121.5	45.6	17.0	9.6	6.8	5.1	
17	12.8	24.7	140.0	23.5	351.0	543.5	110.5	39.7	16.2	9.6	6.8	5.0	
18	21.5	17.2	131.5	26.0	347.2	636.0	96.8	37.9	15.7	9.6	6.8	5.0	
19	16.7	35.5	130.0	39.4	251.6	700.6	91.9	35.2	15.7	9.6	6.6	4.8	
20	8.1	34.9	130.0	104.0	228.3	712.2	89.6	34.0	15.5	9.4	6.6	4.8	
21	6.2	34.3	121.5	72.0	267.9	645.2	84.0	32.5	15.2	9.2	6.5	4.6	
22	5.3	58.4	103.6	74.0	284.7	560.0	78.0	31.6	15.0	9.0	6.3	4.6	
23	5.0	44.9	75.2	65.6	251.6	483.8	74.0	30.4	14.2	8.9	6.2	4.6	
24	4.8	46.3	65.2	49.5	289.6	754.1	72.0	29.5	13.5	8.9	6.0	4.6	
25	4.8	38.8	48.1	40.3	423.8	687.0	70.4	28.3	13.3	8.9	6.0	4.6	
26	5.0	29.2	53.7	106.0	413.2	810.1	70.8	27.7	13.0	8.7	6.0	4.2	
27	10.0	28.9	66.8	107.5	373.5	942.0	68.0	27.0	12.8	8.6	6.0	5.4	
28	37.0	25.0	105.0	110.0	330.9	953.2	64.0	26.3	12.6	8.4	6.0	9.0	
29	61.6	17.5	89.6	125.5	295.9	874.2	58.0	25.5	12.6	8.3		9.0	
30	93.6	14.2	57.6	139.0	219.8	717.1	54.0	25.0	12.4	8.3		18.7	
31		13.0		136.0	194.8		52.2		12.2	8.3		12.2	
Total	423.0	1686.3	2316.2	1717.3	7382.0	13116.0	5249.4	1436.4	535.3	305.5	192.8	189.0	34549.2 CMSDAY
Mean	14.1	54.4	77.2	55.4	238.1	437.2	169.3	47.9	17.3	9.9	6.9	6.1	94.7 CMS
Max	93.6	113.0	140.0	139.0	423.8	953.2	577.2	83.2	24.2	12.0	8.1	18.7	953.2 CMS
Min	4.8	13.0	15.2	21.0	112.0	102.7	52.2	25.0	12.2	8.3	6.0	4.2	4.2 CMS
Runoff	36.55	145.70	200.12	148.37	637.80	1133.22	453.55	124.10	46.25	26.40	16.66	16.33	2985.05 MCM

Momentary Peak 956.00 CMS, at 12.85 M (A.D), at 9.00 Hours, on Sep 28, 1996
Runoff Yield 21.81 Liters/Second/Square KM, Momentary Peak Yield 220.277 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

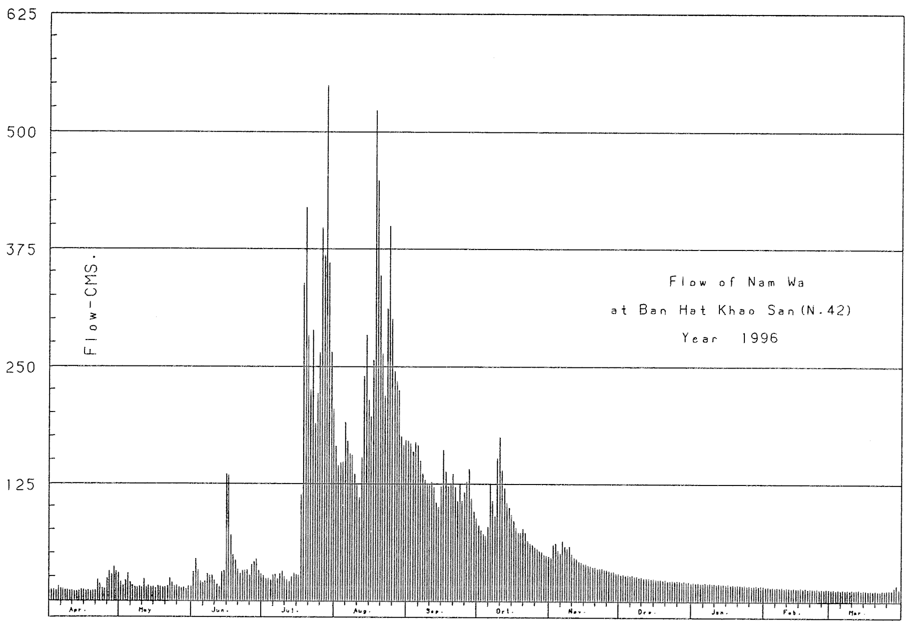
Nam Wa at Ban Hat Khao San, Nan (N.42)

Location	Lat. 18°-34'-08" N., Long. 100°-52'-28" E., on right bank at Ban Hat Khao San, 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	On right bank near the gage site.
Elevation	+11.892 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1972 to date.
Rating Operation	
Period of Rating	1977 to date.
Rated by Float	-
Rated by Current Meter	1977 to date.
Stability of Channel Regimes	Stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 154 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.74	1.93	2.14	2.07	3.65	3.76	2.63	2.23	1.97	1.82	1.73	1.67	
2	1.73	1.86	2.37	2.02	3.39	3.69	2.57	2.39	1.97	1.82	1.72	1.67	
3	1.72	1.98	2.17	2.01	3.44	3.59	2.53	2.42	1.96	1.82	1.72	1.66	
4	1.82	2.11	1.96	1.99	3.44	3.71	2.50	2.32	1.96	1.81	1.72	1.66	
5	1.78	1.92	1.92	2.09	4.00	3.67	2.62	2.29	1.95	1.81	1.71	1.65	
6	1.75	1.84	1.94	2.09	3.75	3.46	3.10	2.44	1.95	1.81	1.71	1.65	
7	1.73	1.82	2.11	2.01	3.56	3.28	2.89	2.38	1.94	1.80	1.71	1.65	
8	1.72	1.79	2.06	2.10	3.53	3.16	2.74	2.34	1.93	1.80	1.71	1.65	
9	1.71	1.83	2.08	2.16	3.27	3.08	3.49	2.38	1.92	1.80	1.70	1.65	
10	1.70	1.79	1.96	2.04	3.09	3.07	3.85	2.27	1.92	1.79	1.70	1.65	
11	1.70	2.01	1.87	1.98	2.92	3.13	3.32	2.23	1.91	1.79	1.70	1.65	
12	1.69	1.82	1.83	1.96	3.51	3.03	3.02	2.21	1.91	1.79	1.70	1.66	
13	1.69	1.84	2.14	2.04	4.39	2.88	2.87	2.18	1.90	1.79	1.70	1.65	
14	1.75	1.82	2.17	2.13	4.75	2.83	2.83	2.16	1.90	1.78	1.70	1.64	
15	1.72	1.81	3.45	2.10	4.18	3.05	2.75	2.14	1.89	1.78	1.70	1.64	
16	1.71	1.77	3.43	2.07	4.04	3.60	2.69	2.13	1.88	1.78	1.70	1.63	
17	1.71	1.84	2.72	2.95	4.54	3.31	2.60	2.12	1.88	1.77	1.69	1.63	
18	1.70	1.81	2.42	5.11	6.01	3.04	2.55	2.10	1.87	1.77	1.69	1.63	
19	1.69	1.81	2.34	5.54	5.68	3.11	2.54	2.09	1.87	1.77	1.68	1.63	
20	1.72	1.80	2.18	4.74	5.16	3.26	2.59	2.08	1.87	1.76	1.68	1.63	
21	1.99	1.85	2.11	4.27	4.59	3.03	2.55	2.07	1.86	1.76	1.68	1.63	
22	1.88	2.02	2.17	4.79	4.21	2.89	2.45	2.07	1.86	1.76	1.68	1.62	
23	1.79	1.91	2.16	3.99	4.95	3.11	2.41	2.06	1.85	1.76	1.68	1.63	
24	1.75	1.84	2.18	4.24	5.44	2.89	2.40	2.05	1.85	1.75	1.67	1.64	
25	2.02	1.84	2.09	4.60	4.87	2.97	2.36	2.04	1.85	1.75	1.67	1.63	
26	2.15	1.80	2.26	5.43	4.44	3.12	2.35	2.03	1.85	1.75	1.67	1.64	
27	2.10	1.79	2.32	5.28	4.35	3.35	2.32	2.02	1.84	1.75	1.67	1.65	
28	2.24	1.79	2.35	6.12	4.26	2.91	2.30	2.01	1.84	1.75	1.67	1.72	
29	2.15	1.76	2.17	5.23	3.86	2.79	2.27	1.99	1.83	1.74		1.76	
30	2.12	1.82	2.10	4.61	3.66	2.71	2.25	1.98	1.83	1.74		1.68	
31		1.83		4.10	3.75		2.24		1.82	1.74		1.76	
Mean	1.82	1.85	2.24	3.35	4.15	3.18	2.66	2.17	1.89	1.78	1.69	1.66	
Max	2.24	2.11	3.45	6.12	6.01	3.76	3.85	2.44	1.97	1.82	1.73	1.76	6.12
Min	1.69	1.76	1.83	1.96	2.92	2.71	2.24	1.98	1.82	1.74	1.67	1.62	1.62

Annual Max Momentary Gage Height 6.86 M (A.D), at 14.00 Hours, on Aug 18, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.07 M (A.D)
Left Bank Elevation 13.34 M (A.D)
Right Bank Elevation 12.28 M (A.D), Drainage Area 2107 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.18	20.18	31.00	27.04	165.00	171.70	80.70	46.74	28.54	19.88	15.58	12.94	
2	11.81	17.04	45.59	24.44	144.30	168.20	75.30	59.58	28.54	19.88	15.12	12.94	
3	11.44	22.48	32.80	23.92	148.20	160.20	71.70	62.12	27.92	19.88	15.12	12.52	
4	15.28	29.20	21.56	22.94	148.20	169.45	69.00	53.84	27.92	19.34	15.12	12.52	
5	13.66	19.72	19.72	28.08	191.33	166.60	79.80	51.42	27.30	19.34	14.66	12.10	
6	12.55	16.16	20.64	28.08	171.25	149.80	126.00	63.84	27.30	19.34	14.66	12.10	
7	11.81	15.28	29.20	23.92	157.80	136.80	106.90	58.76	26.68	18.80	14.66	12.10	
8	11.44	14.03	26.52	28.60	155.40	129.60	91.00	55.48	26.06	18.80	14.66	12.10	
9	11.07	15.72	27.56	32.20	136.20	124.80	152.20	58.76	25.44	18.80	14.20	12.10	
10	10.70	14.03	21.56	25.48	125.40	124.20	175.75	49.86	25.44	18.34	14.20	12.10	
11	10.70	23.92	17.48	22.48	110.40	127.80	139.40	46.74	24.82	18.34	14.20	12.10	
12	10.35	15.28	15.72	21.56	153.80	121.80	121.20	45.18	24.82	18.34	14.20	12.52	
13	10.35	16.16	31.00	25.48	239.80	105.80	104.70	42.96	24.20	18.34	14.20	12.10	
14	12.55	15.28	32.80	30.40	284.50	100.30	100.30	41.52	24.20	17.88	14.20	11.68	
15	11.44	14.84	136.00	28.60	215.33	123.00	92.00	40.08	23.66	17.88	14.20	11.68	
16	11.07	13.29	134.00	27.04	196.67	161.00	86.10	39.36	23.12	17.88	14.20	11.26	
17	11.07	16.16	70.60	114.00	257.80	138.70	78.00	38.64	23.12	17.42	13.78	11.26	
18	10.70	14.84	48.96	338.80	523.30	122.40	73.50	37.20	22.58	17.42	13.78	11.26	
19	10.35	14.84	43.58	420.00	448.80	126.60	72.60	36.52	22.58	17.42	13.36	11.26	
20	11.44	14.40	33.40	283.20	347.80	135.60	77.10	35.84	22.58	16.96	13.36	11.26	
21	22.94	16.60	29.20	225.70	263.80	121.80	73.50	35.16	22.04	16.96	13.36	11.26	
22	17.92	24.44	32.80	289.70	219.10	106.90	64.70	35.16	22.04	16.96	13.36	10.84	
23	14.03	19.26	32.20	190.00	312.50	126.60	61.26	34.48	21.50	16.96	13.36	11.26	
24	12.55	16.16	33.40	222.40	400.00	106.90	60.40	33.80	21.50	16.50	12.94	11.68	
25	24.44	16.16	28.08	265.00	300.80	116.40	57.12	33.12	21.50	16.50	12.94	11.26	
26	31.60	14.40	38.38	398.00	245.80	127.20	56.30	32.44	21.50	16.50	12.94	11.68	
27	28.60	14.03	42.24	369.40	235.00	141.50	53.84	31.76	20.96	16.50	12.94	12.10	
28	37.12	14.03	44.25	548.80	224.60	109.20	52.20	31.08	20.96	16.50	12.94	15.12	
29	31.60	12.92	32.80	360.40	176.20	96.00	49.86	29.78	20.42	16.04		16.96	
30	29.80	15.28	28.60	266.30	165.80	88.00	48.30	29.16	20.42	16.04		13.36	
31		15.72		204.67	171.25		47.52		19.88	16.04		16.96	
Total	482.56	521.85	1181.64	4916.63	7036.13	3904.85	2598.25	1290.38	739.54	551.78	392.24	382.38	23998.23 CMSDAY
Mean	16.09	16.83	39.39	158.60	226.97	130.16	83.81	43.01	23.86	17.80	14.01	12.33	65.75 CMS
Max	37.12	29.20	136.00	548.80	523.30	171.70	175.75	63.84	28.54	19.88	15.58	16.96	548.80 CMS
Min	10.35	12.92	15.72	21.56	110.40	88.00	47.52	29.16	19.88	16.04	12.94	10.84	10.35 CMS
Runoff	41.693	45.088	102.094	424.797	607.922	337.379	224.489	111.489	63.896	47.674	33.890	33.038	2073.447 MCM

Momentary Peak 726.40 CMS, at 6.86 M (A.D), at 14.00 Hours, on Aug 18, 1996

Runoff Yield 31.20 Liters/Second/Square KM, Momentary Peak Yield 344.756 Liters/Second/Square KM

WATER YEAR 1996

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	On right bank about 15 meters from 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	Rather unstable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

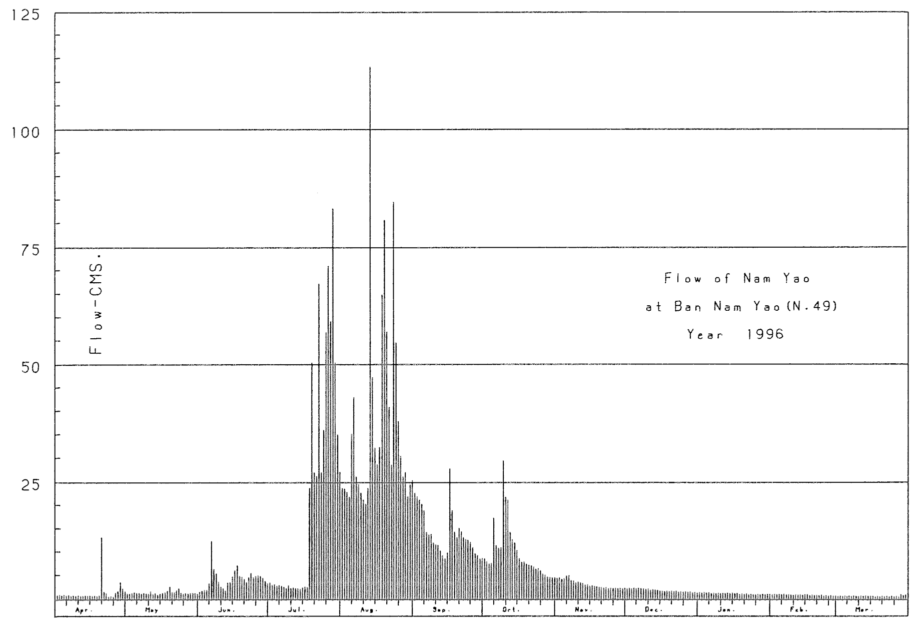
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.52	1.55	1.57	1.69	2.02	2.01	1.80	1.68	1.58	1.52	1.49	1.45	
2	1.52	1.54	1.60	1.67	2.02	2.00	1.78	1.68	1.58	1.52	1.49	1.45	
3	1.52	1.56	1.60	1.67	2.01	1.99	1.77	1.67	1.58	1.52	1.49	1.45	
4	1.52	1.56	1.61	1.66	2.00	1.98	1.77	1.67	1.58	1.52	1.49	1.45	
5	1.52	1.56	1.68	1.66	2.15	1.96	1.94	1.70	1.58	1.52	1.49	1.45	
6	1.52	1.55	1.92	1.66	2.23	1.90	1.85	1.70	1.58	1.51	1.49	1.45	
7	1.51	1.55	1.80	1.64	2.05	1.89	1.84	1.66	1.58	1.51	1.49	1.45	
8	1.51	1.55	1.77	1.63	2.03	1.89	1.84	1.65	1.57	1.51	1.48	1.45	
9	1.51	1.55	1.70	1.66	2.01	1.86	2.09	1.64	1.57	1.51	1.48	1.45	
10	1.51	1.55	1.65	1.63	1.99	1.85	2.00	1.64	1.57	1.51	1.48	1.45	
11	1.51	1.58	1.62	1.63	1.98	1.85	1.99	1.64	1.56	1.51	1.48	1.45	
12	1.51	1.54	1.60	1.63	2.02	1.83	1.90	1.63	1.56	1.51	1.48	1.45	
13	1.51	1.55	1.69	1.62	2.79	1.81	1.87	1.62	1.56	1.51	1.48	1.45	
14	1.51	1.53	1.70	1.62	2.27	1.80	1.86	1.62	1.55	1.51	1.48	1.45	
15	1.51	1.54	1.74	1.63	2.12	1.82	1.83	1.61	1.55	1.51	1.48	1.44	
16	1.51	1.55	1.79	1.64	2.08	2.07	1.80	1.61	1.54	1.51	1.48	1.44	
17	1.51	1.57	1.82	1.64	2.12	1.96	1.78	1.61	1.54	1.51	1.47	1.44	
18	1.51	1.59	1.75	2.02	2.43	1.90	1.78	1.60	1.54	1.50	1.47	1.44	
19	1.51	1.65	1.74	2.30	2.56	1.88	1.77	1.60	1.54	1.50	1.47	1.44	
20	1.93	1.57	1.72	2.06	2.36	1.91	1.76	1.59	1.54	1.50	1.47	1.44	
21	1.58	1.57	1.70	2.05	2.21	1.90	1.76	1.59	1.54	1.50	1.47	1.44	
22	1.55	1.60	1.74	2.45	2.08	1.88	1.75	1.59	1.54	1.49	1.47	1.44	
23	1.50	1.63	1.77	2.06	2.59	1.87	1.74	1.58	1.53	1.49	1.46	1.44	
24	1.50	1.56	1.74	2.16	2.34	1.87	1.74	1.58	1.53	1.49	1.46	1.44	
25	1.50	1.55	1.75	2.36	2.18	1.86	1.73	1.58	1.53	1.49	1.46	1.44	
26	1.56	1.55	1.75	2.48	2.10	1.84	1.71	1.58	1.53	1.49	1.46	1.44	
27	1.59	1.55	1.75	2.38	2.05	1.82	1.70	1.58	1.53	1.49	1.46	1.44	
28	1.70	1.55	1.73	2.58	2.06	1.81	1.69	1.58	1.53	1.49	1.45	1.48	
29	1.62	1.56	1.71	2.30	2.00	1.80	1.68	1.58	1.52	1.49		1.47	
30	1.58	1.55	1.68	2.15	2.03	1.80	1.68	1.58	1.52	1.49		1.47	
31		1.55		2.06	2.04		1.68		1.52	1.49		1.46	
Mean	1.55	1.56	1.71	1.92	2.16	1.89	1.80	1.62	1.55	1.50	1.48	1.45	
Max	1.93	1.65	1.92	2.58	2.79	2.07	2.09	1.70	1.58	1.52	1.49	1.48	2.79
Min	1.50	1.53	1.57	1.62	1.98	1.80	1.68	1.58	1.52	1.49	1.45	1.44	1.44

Annual Max Momentary Gage Height 3.07 M (A.D), at 10.00 Hours, on Aug 13, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.22 M (A.D)

Left Bank Elevation 9.44 M (A.D)

Right Bank Elevation 11.24 M (A.D), Drainage Area 155 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	1.37	1.63	3.62	23.72	22.86	8.80	4.72	2.50	1.60	1.21	0.85	
2	1.00	1.25	2.00	3.26	23.72	22.00	8.08	4.72	2.50	1.60	1.21	0.85	
3	1.00	1.50	2.00	3.26	22.86	21.25	7.72	4.48	2.50	1.60	1.21	0.85	
4	1.00	1.50	2.18	3.08	22.00	20.50	7.72	4.48	2.50	1.60	1.21	0.85	
5	1.00	1.50	3.44	3.08	35.30	19.00	17.50	5.20	2.50	1.60	1.21	0.85	
6	1.00	1.37	12.60	3.08	43.15	14.50	11.65	5.20	2.50	1.45	1.21	0.85	
7	0.87	1.37	6.50	2.72	26.30	13.93	11.08	4.24	2.50	1.45	1.21	0.85	
8	0.87	1.37	5.69	2.54	24.58	13.93	11.08	4.00	2.35	1.45	1.12	0.85	
9	0.87	1.37	3.80	3.08	22.86	12.22	29.74	3.76	2.35	1.45	1.12	0.85	
10	0.87	1.37	2.90	2.54	21.25	11.65	22.00	3.76	2.35	1.45	1.12	0.85	
11	0.87	1.75	2.36	2.54	20.50	11.65	21.25	3.76	2.20	1.45	1.12	0.85	
12	0.87	1.25	2.00	2.54	23.72	10.51	14.50	3.52	2.20	1.45	1.12	0.85	
13	0.87	1.37	3.62	2.36	113.50	9.37	12.79	3.28	2.20	1.45	1.12	0.85	
14	0.87	1.12	3.80	2.36	47.35	8.80	12.22	3.28	2.05	1.45	1.12	0.85	
15	0.87	1.25	4.88	2.54	32.48	9.94	10.51	3.04	2.05	1.45	1.12	0.76	
16	0.87	1.37	6.23	2.72	28.88	28.02	8.80	3.04	1.90	1.45	1.12	0.76	
17	0.87	1.63	7.40	2.72	32.48	19.00	8.08	3.04	1.90	1.45	1.03	0.76	
18	0.87	1.88	5.15	23.72	65.10	14.50	8.08	2.80	1.90	1.30	1.03	0.76	
19	0.87	2.90	4.88	50.50	81.00	13.36	7.72	2.80	1.90	1.30	1.03	0.76	
20	13.40	1.63	4.34	27.16	57.10	15.25	7.36	2.65	1.90	1.30	1.03	0.76	
21	1.75	1.63	3.80	26.30	41.05	14.50	7.36	2.65	1.90	1.30	1.03	0.76	
22	1.37	2.00	4.88	67.50	28.88	13.36	7.00	2.65	1.90	1.21	1.03	0.76	
23	0.75	2.54	5.69	27.16	84.75	12.79	6.64	2.50	1.75	1.21	0.94	0.76	
24	0.75	1.50	4.88	36.24	54.90	12.79	6.64	2.50	1.75	1.21	0.94	0.76	
25	0.75	1.37	5.15	57.10	38.12	12.22	6.28	2.50	1.75	1.21	0.94	0.76	
26	1.50	1.37	5.15	71.10	30.60	11.08	5.56	2.50	1.75	1.21	0.94	0.76	
27	1.88	1.37	5.15	59.30	26.30	9.94	5.20	2.50	1.75	1.21	0.94	0.76	
28	3.80	1.37	4.61	83.50	27.16	9.37	4.96	2.50	1.75	1.21	0.85	1.12	
29	2.36	1.50	4.07	50.50	22.00	8.80	4.72	2.50	1.60	1.21		1.03	
30	1.75	1.37	3.44	35.30	24.58	8.80	4.72	2.50	1.60	1.21		1.03	
31		1.37		27.16	25.44		4.72		1.60	1.21		0.94	
Total	47.37	47.51	134.22	690.58	1171.63	425.89	310.48	101.07	63.85	42.70	30.28	25.90	3091.48 CMSDAY
Mean	1.58	1.53	4.47	22.28	37.79	14.20	10.02	3.37	2.06	1.38	1.08	0.84	8.47 CMS
Max	13.40	2.90	12.60	83.50	113.50	28.02	29.74	5.20	2.50	1.60	1.21	1.12	113.50 CMS
Min	0.75	1.12	1.63	2.36	20.50	8.80	4.72	2.50	1.60	1.21	0.85	0.76	0.75 CMS
Runoff	4.093	4.105	11.597	59.666	101.229	36.797	26.825	8.732	5.517	3.689	2.616	2.238	267.104 MCM

Momentary Peak 159.75 CMS, at 3.07 M (A.D), at 10.00 Hours, on Aug 13, 1996

Runoff Yield 54.64 Liters/Second/Square KM, Momentary Peak Yield 1030.645 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

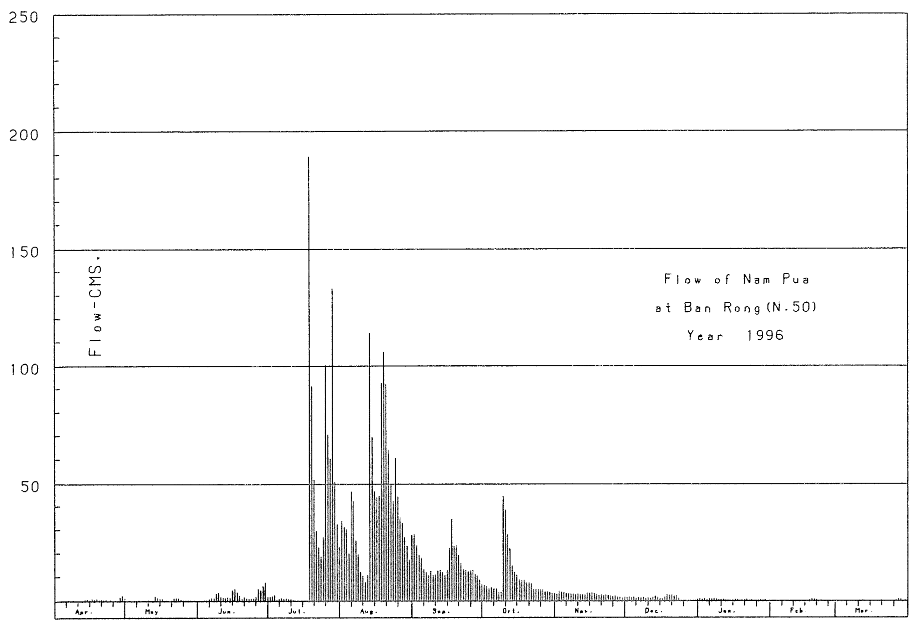
Nam Pua at Ban Rong, Nan (N.50)

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	Unstable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. There was a temporary weir during the dry season downstream. Stage-discharge relation defined by 44 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.25	-0.21	-0.21	-0.09	0.32	0.26	-0.06	-0.19	-0.28	-0.34	-0.42	-0.47	
2	-0.26	-0.24	-0.22	-0.09	0.29	0.22	-0.07	-0.15	-0.28	-0.34	-0.42	-0.45	
3	-0.25	-0.23	-0.22	-0.06	0.28	0.18	-0.11	-0.16	-0.28	-0.34	-0.44	-0.48	
4	-0.24	-0.22	-0.18	-0.19	0.19	0.16	-0.08	-0.17	-0.28	-0.34	-0.41	-0.49	
5	-0.23	-0.22	-0.16	-0.15	0.52	0.10	-0.11	-0.18	-0.29	-0.34	-0.42	-0.49	
6	-0.22	-0.23	-0.14	-0.15	0.46	0.07	-0.10	-0.19	-0.29	-0.33	-0.42	-0.49	
7	-0.22	-0.24	-0.13	-0.16	0.24	0.05	-0.18	-0.19	-0.28	-0.33	-0.46	-0.49	
8	-0.23	-0.22	-0.04	-0.16	0.18	0.08	-0.16	-0.20	-0.29	-0.33	-0.44	-0.49	
9	-0.27	-0.22	-0.03	-0.16	0.08	0.05	0.49	-0.20	-0.30	-0.36	-0.42	-0.49	
10	-0.25	-0.22	-0.09	-0.18	0.04	0.05	0.41	-0.20	-0.31	-0.36	-0.46	-0.49	
11	-0.26	-0.22	-0.12	-0.20	-0.02	0.09	0.26	-0.20	-0.30	-0.37	-0.48	-0.44	
12	-0.26	-0.20	-0.12	-0.22	0.05	0.09	0.21	-0.22	-0.29	-0.37	-0.49	-0.42	
13	-0.17	-0.08	-0.11	-0.25	1.30	0.07	0.12	-0.21	-0.25	-0.41	-0.49	-0.43	
14	-0.18	-0.14	-0.11	-0.26	0.82	0.05	0.07	-0.18	-0.29	-0.40	-0.50	-0.45	
15	-0.18	-0.15	0.01	-0.27	0.52	0.09	0.05	-0.18	-0.30	-0.39	-0.47	-0.45	
16	-0.17	-0.17	0.02	-0.27	0.48	0.21	0.01	-0.18	-0.35	-0.35	-0.47	-0.45	
17	-0.17	-0.20	-0.02	-0.25	0.49	0.34	0.00	-0.18	-0.27	-0.36	-0.37	-0.46	
18	-0.17	-0.23	-0.08	2.06	1.08	0.22	0.01	-0.20	-0.22	-0.40	-0.35	-0.47	
19	-0.18	-0.25	-0.15	1.26	1.22	0.22	-0.03	-0.22	-0.22	-0.41	-0.34	-0.46	
20	-0.18	-0.24	-0.10	0.85	1.07	0.18	-0.02	-0.22	-0.22	-0.37	-0.35	-0.50	
21	-0.18	-0.12	-0.14	0.55	0.75	0.13	-0.04	-0.22	-0.24	-0.37	-0.40	-0.50	
22	-0.19	-0.12	-0.15	0.43	0.56	0.10	-0.11	-0.22	-0.24	-0.38	-0.40	-0.48	
23	-0.20	-0.15	-0.16	0.35	0.46	0.09	-0.12	-0.22	-0.30	-0.39	-0.46	-0.45	
24	-0.20	-0.19	-0.13	0.51	0.71	0.08	-0.11	-0.25	-0.46	-0.39	-0.49	-0.44	
25	-0.20	-0.19	-0.10	1.34	0.49	0.09	-0.12	-0.25	-0.42	-0.40	-0.49	-0.45	
26	-0.24	-0.19	0.02	1.06	0.35	0.09	-0.12	-0.25	-0.45	-0.38	-0.50	-0.41	
27	-0.19	-0.19	0.01	0.95	0.31	0.06	-0.15	-0.27	-0.45	-0.38	-0.49	-0.32	
28	-0.10	-0.24	0.06	1.62	0.25	0.04	-0.16	-0.29	-0.47	-0.38	-0.47	-0.37	
29	-0.08	-0.24	0.10	0.84	0.22	0.01	-0.16	-0.29	-0.42	-0.39		-0.40	
30	-0.14	-0.23	-0.11	0.60	0.15	-0.05	-0.19	-0.28	-0.41	-0.40		-0.43	
31		-0.23		0.43	0.26		-0.19		-0.34	-0.46		-0.42	
Mean	-0.20	-0.20	-0.09	0.31	0.46	0.11	-0.02	-0.21	-0.32	-0.37	-0.44	-0.45	
Max	-0.08	-0.08	0.10	2.06	1.30	0.34	0.49	-0.15	-0.22	-0.33	-0.34	-0.32	2.06
Min	-0.27	-0.25	-0.22	-0.27	-0.02	-0.05	-0.19	-0.29	-0.47	-0.46	-0.50	-0.50	-0.50

Annual Max Momentary Gage Height 2.95 M (A.D), at 13.00 Hours, on Jul 18, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.23 M (A.D)
Left Bank Elevation 3.26 M (A.D)
Right Bank Elevation 5.63 M (A.D), Drainage Area 192 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.55	0.55	2.07	34.10	28.36	6.80	3.30	1.73	1.06	0.46	0.24	
2	0.30	0.40	0.50	2.07	31.84	23.72	6.48	4.28	1.73	1.06	0.46	0.33	
3	0.35	0.45	0.50	2.88	30.68	19.88	5.26	4.03	1.73	1.06	0.37	0.19	
4	0.40	0.50	0.84	0.72	20.64	18.36	6.15	3.79	1.73	1.06	0.51	0.14	
5	0.45	0.50	1.08	1.20	46.96	13.80	5.26	3.54	1.57	1.06	0.46	0.14	
6	0.50	0.45	1.32	1.20	42.70	12.28	5.50	3.30	1.57	1.14	0.46	0.14	
7	0.50	0.40	1.44	1.08	26.04	11.28	3.54	3.30	1.73	1.14	0.28	0.14	
8	0.45	0.50	3.42	1.08	19.88	12.79	4.03	3.05	1.57	1.14	0.37	0.14	
9	0.25	0.50	3.69	1.08	12.79	11.28	44.80	3.05	1.40	0.89	0.46	0.14	
10	0.35	0.50	2.07	0.84	10.77	11.28	39.20	3.05	1.32	0.89	0.28	0.14	
11	0.30	0.50	1.56	0.60	8.10	13.30	28.36	3.05	1.40	0.81	0.19	0.37	
12	0.30	0.60	1.56	0.50	11.28	13.30	22.56	2.72	1.57	0.81	0.14	0.46	
13	0.96	2.34	1.68	0.35	114.20	12.28	15.32	2.89	2.23	0.51	0.14	0.42	
14	0.84	1.32	1.68	0.30	70.20	11.28	12.28	3.54	1.57	0.55	0.10	0.33	
15	0.84	1.20	4.85	0.25	46.96	13.30	11.28	3.54	1.40	0.64	0.24	0.33	
16	0.96	0.96	5.20	0.25	44.10	22.56	9.26	3.54	0.98	0.98	0.24	0.33	
17	0.96	0.60	3.96	0.35	44.80	35.20	8.75	3.54	1.90	0.89	0.81	0.28	
18	0.96	0.45	2.34	189.80	93.20	23.72	9.26	3.05	2.72	0.55	0.98	0.24	
19	0.84	0.35	1.20	91.80	106.44	23.72	7.78	2.72	2.72	0.51	1.06	0.28	
20	0.84	0.40	1.80	51.75	92.30	19.88	8.10	2.72	2.72	0.81	0.98	0.10	
21	0.84	1.56	1.32	30.00	64.50	16.08	7.45	2.72	2.39	0.81	0.55	0.10	
22	0.72	1.56	1.20	23.15	49.88	13.80	5.26	2.72	2.39	0.72	0.55	0.19	
23	0.60	1.20	1.08	18.95	42.70	13.30	5.01	2.72	1.40	0.64	0.28	0.33	
24	0.60	0.72	1.44	27.60	61.30	12.79	5.26	2.23	0.28	0.64	0.14	0.37	
25	0.60	0.72	1.80	100.60	44.80	13.30	5.01	2.23	0.46	0.55	0.14	0.33	
26	0.40	0.72	5.20	71.20	35.75	13.30	5.01	2.23	0.33	0.72	0.10	0.51	
27	0.72	0.72	4.85	60.75	33.55	11.78	4.28	1.90	0.33	0.72	0.14	1.23	
28	1.80	0.40	6.60	133.50	27.20	10.77	4.03	1.57	0.24	0.72	0.24	0.81	
29	2.34	0.40	8.00	50.90	23.72	9.26	4.03	1.57	0.46	0.64		0.55	
30	1.32	0.45	1.68	33.00	17.60	7.13	3.30	1.73	0.51	0.55		0.42	
31		0.45		23.15	28.36		3.30		1.06	0.28		0.46	
Total	21.64	22.37	74.41	922.97	1337.34	473.08	311.91	87.62	45.14	24.55	11.13	10.18	3342.34 CMSDAY
Mean	0.72	0.72	2.48	29.77	43.14	15.77	10.06	2.92	1.46	0.79	0.40	0.33	9.16 CMS
Max	2.34	2.34	8.00	189.80	114.20	35.20	44.80	4.28	2.72	1.14	1.06	1.23	189.80 CMS
Min	0.25	0.35	0.50	0.25	8.10	7.13	3.30	1.57	0.24	0.28	0.10	0.10	0.10 CMS
Runoff	1.870	1.933	6.429	79.745	115.546	40.874	26.949	7.570	3.900	2.121	0.962	0.880	288.778 MCM

Momentary Peak 315.50 CMS, at 2.95 M (A.D), at 13.00 Hours, on Jul 18, 1996

Runoff Yield 47.69 Liters/Second/Square KM, Momentary Peak Yield 1643.229 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

Nam Phak at Ban Tha Sakae, Phitsanulok (N.55)

Location	Lat. 17°-15'-10" N., Long. 100°-37'-51" E., on left bank at the bridge of Nakhon Thai-Chat Trakarn road, Amphoe Chat Trakarn, Phitsanulok.
Drainage Area	967 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 13 meters from the top staff gage.
Elevation	+8.587 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	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +5.97 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

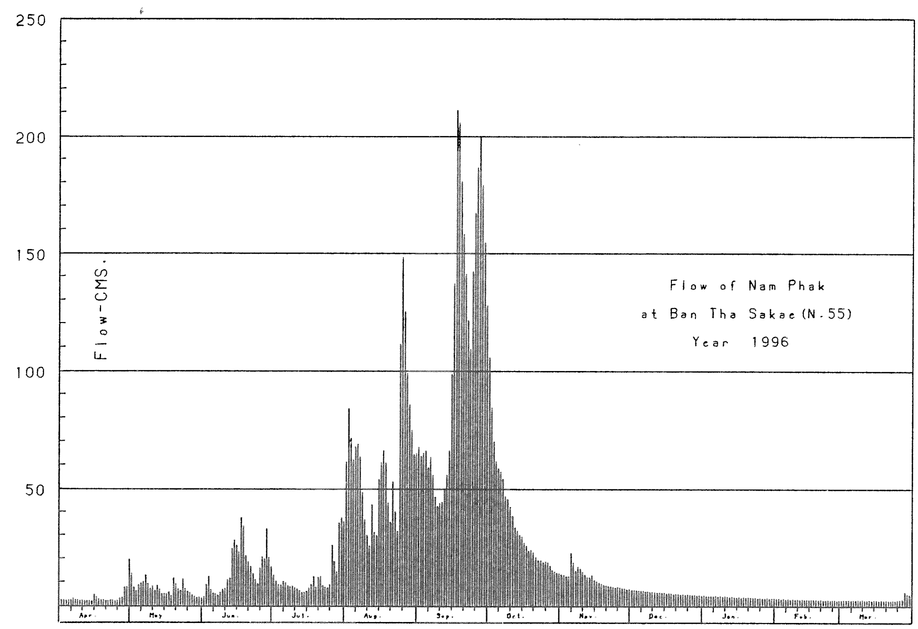
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	1.69	0.89	1.64	4.20	4.48	5.87	1.67	1.19	0.95	0.82	0.75	
2	0.75	1.29	1.39	1.49	5.14	4.32	5.15	1.64	1.18	0.93	0.82	0.75	
3	0.73	1.14	1.62	1.37	4.65	4.37	4.59	1.62	1.17	0.91	0.81	0.75	
4	0.73	1.37	1.20	1.37	4.24	4.42	4.21	1.61	1.16	0.94	0.81	0.74	
5	0.76	1.43	1.06	1.48	4.49	4.10	4.08	2.24	1.16	0.93	0.80	0.74	
6	0.83	1.46	1.01	1.43	4.54	4.29	4.01	2.00	1.15	0.93	0.80	0.74	
7	0.76	1.66	0.97	1.35	4.30	3.95	3.88	1.78	1.14	0.92	0.79	0.74	
8	0.75	1.40	1.08	1.29	3.62	3.54	3.54	1.89	1.12	0.92	0.79	0.74	
9	0.73	1.25	1.22	1.33	3.04	3.34	3.49	1.84	1.11	0.91	0.79	0.74	
10	0.72	1.32	1.24	1.26	2.68	3.39	3.31	1.74	1.10	0.91	0.78	0.74	
11	0.72	1.17	1.51	1.24	2.41	3.41	3.13	1.66	1.10	0.90	0.78	0.74	
12	0.71	1.36	1.57	1.16	3.37	3.70	2.87	1.58	1.09	0.90	0.78	0.74	
13	0.70	1.21	2.35	1.10	2.74	3.95	2.78	1.59	1.08	0.89	0.78	0.73	
14	0.70	1.04	2.55	1.08	2.67	4.42	2.68	1.64	1.07	0.89	0.77	0.73	
15	1.00	1.02	2.44	1.15	3.88	5.65	2.63	1.52	1.06	0.88	0.77	0.73	
16	0.89	1.01	2.26	1.25	4.19	6.57	2.49	1.47	1.05	0.88	0.77	0.73	
17	0.79	1.10	3.09	1.39	4.41	7.51	2.42	1.44	1.04	0.87	0.77	0.73	
18	0.76	0.93	2.89	1.62	4.19	7.46	2.30	1.40	1.03	0.87	0.76	0.73	
19	0.74	1.58	2.18	1.28	3.40	7.21	2.31	1.37	1.02	0.87	0.76	0.73	
20	0.71	1.39	2.02	1.59	3.00	6.91	2.25	1.34	1.01	0.87	0.76	0.73	
21	0.70	1.22	1.89	1.61	3.82	6.64	2.13	1.33	1.01	0.86	0.75	0.73	
22	0.76	1.18	1.70	1.35	3.22	6.26	2.07	1.32	1.00	0.86	0.75	0.72	
23	0.73	1.55	1.52	1.28	2.76	5.96	2.05	1.29	1.00	0.85	0.75	0.72	
24	0.71	1.23	1.41	1.28	6.02	6.66	2.02	1.28	0.99	0.84	0.74	0.73	
25	0.71	1.14	1.85	1.37	6.76	7.04	2.03	1.28	0.99	0.84	0.74	0.75	
26	0.82	1.06	2.14	2.44	6.34	7.27	2.01	1.27	0.98	0.84	0.74	0.75	
27	0.89	0.99	2.10	2.04	5.66	7.41	1.92	1.26	0.98	0.84	0.73	0.79	
28	1.29	0.90	2.84	1.74	5.20	7.19	1.80	1.24	0.97	0.84	0.73	1.11	
29	1.29	0.88	2.13	2.98	4.78	6.86	1.74	1.22	0.97	0.83		1.00	
30	2.09	0.88	1.89	3.09	4.35	6.39	1.72	1.21	0.96	0.83		1.00	
31		0.85		3.00	4.36		1.69		0.96	0.83		1.00	
Mean	0.84	1.22	1.80	1.58	4.14	5.49	2.88	1.52	1.06	0.88	0.77	0.78	
Max	2.09	1.69	3.09	3.09	6.76	7.51	5.87	2.24	1.19	0.95	0.82	1.11	7.51
Min	0.70	0.85	0.89	1.08	2.41	3.34	1.69	1.21	0.96	0.83	0.73	0.72	0.70

Annual Max Momentary Gage Height 7.59 M (AD), at 18.00 Hours, on Sep 17, 1996

Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.22 M (AD)

Left Bank Elevation 6.40 M (AD)

Right Bank Elevation 5.97 M (AD), Drainage Area 967 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.76	13.85	3.90	13.10	61.50	67.80	106.12	13.55	6.90	4.50	3.20	2.60	
2	2.60	8.12	9.38	10.85	84.35	64.20	84.62	13.10	6.80	4.30	3.20	2.60	
3	2.44	6.40	12.80	9.13	71.75	65.32	70.28	12.80	6.70	4.10	3.10	2.60	
4	2.44	9.13	7.00	9.13	62.40	66.45	61.73	12.65	6.60	4.40	3.10	2.52	
5	2.68	9.95	5.60	10.70	68.02	59.25	58.80	22.70	6.60	4.30	3.00	2.52	
6	3.30	10.40	5.10	9.95	69.15	63.53	57.23	18.50	6.50	4.30	3.00	2.52	
7	2.68	13.40	4.70	8.88	63.75	55.88	54.30	15.20	6.40	4.20	2.92	2.52	
8	2.60	9.50	5.80	8.12	48.45	46.80	46.80	16.85	6.20	4.20	2.92	2.52	
9	2.44	7.62	7.25	8.63	36.80	42.80	45.80	16.10	6.10	4.10	2.92	2.52	
10	2.36	8.50	7.50	7.75	30.40	43.80	42.20	14.60	6.00	4.10	2.84	2.52	
11	2.36	6.70	11.15	7.50	25.68	44.20	38.60	13.40	6.00	4.00	2.84	2.52	
12	2.28	9.00	12.05	6.60	43.40	50.25	33.72	12.20	5.90	4.00	2.84	2.52	
13	2.20	7.13	24.62	6.00	31.45	55.88	32.15	12.35	5.80	3.90	2.84	2.44	
14	2.20	5.40	28.12	5.80	30.23	66.45	30.40	13.10	5.70	3.90	2.76	2.44	
15	5.00	5.20	26.20	6.50	54.30	99.00	29.53	11.30	5.60	3.80	2.76	2.44	
16	3.90	5.10	23.05	7.62	61.28	137.43	27.07	10.55	5.50	3.80	2.76	2.44	
17	2.92	6.00	37.80	9.38	66.22	211.38	25.85	10.10	5.40	3.70	2.76	2.44	
18	2.68	4.30	34.08	12.80	61.28	205.75	23.75	9.50	5.30	3.70	2.68	2.44	
19	2.52	12.20	21.65	8.00	44.00	180.95	23.92	9.13	5.20	3.70	2.68	2.44	
20	2.28	9.38	18.85	12.35	36.00	158.42	22.87	8.75	5.10	3.70	2.68	2.44	
21	2.20	7.25	16.85	12.65	52.95	141.40	20.78	8.63	5.10	3.60	2.60	2.44	
22	2.68	6.80	14.00	8.88	40.40	121.85	19.72	8.50	5.00	3.60	2.60	2.36	
23	2.44	11.75	11.30	8.00	31.80	109.50	19.37	8.12	5.00	3.50	2.60	2.36	
24	2.28	7.38	9.65	8.00	111.80	142.60	18.85	8.00	4.90	3.40	2.52	2.44	
25	2.28	6.40	16.25	9.13	148.60	167.60	19.02	8.00	4.90	3.40	2.52	2.60	
26	3.20	5.60	20.95	26.20	125.65	186.65	18.67	7.87	4.80	3.40	2.52	2.60	
27	3.90	4.90	20.25	19.20	99.30	200.12	17.30	7.75	4.80	3.40	2.44	2.92	
28	8.12	4.00	33.20	14.60	86.00	179.23	15.50	7.50	4.70	3.40	2.44	6.10	
29	8.12	3.80	20.78	35.65	75.00	155.05	14.60	7.25	4.70	3.30		5.00	
30	20.07	3.80	16.85	37.80	64.87	128.02	14.30	7.13	4.60	3.30		5.00	
31		3.50		36.00	65.10		13.85		4.60	3.30		5.00	
Total	109.93	232.46	486.68	394.90	1951.88	3317.56	1107.70	345.18	173.40	118.30	78.04	88.82	8404.85 CMSDAY
Mean	3.66	7.50	16.22	12.74	62.96	110.59	35.73	11.51	5.59	3.82	2.79	2.87	23.03 CMS
Max	20.07	13.85	37.80	37.80	148.60	211.38	106.12	22.70	6.90	4.50	3.20	6.10	211.38 CMS
Min	2.20	3.50	3.90	5.80	25.68	42.80	13.85	7.13	4.60	3.30	2.44	2.36	2.20 CMS
Runoff	9.498	20.085	42.049	34.119	168.642	286.637	95.705	29.824	14.982	10.221	6.743	7.674	726.179 MCM

Momentary Peak 220.38 CMS, at 7.59 M (AD), at 18.00 Hours, on Sep 17, 1996

Runoff Yield 23.81 Liters/Second/Square KM, Momentary Peak Yield 227.901 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

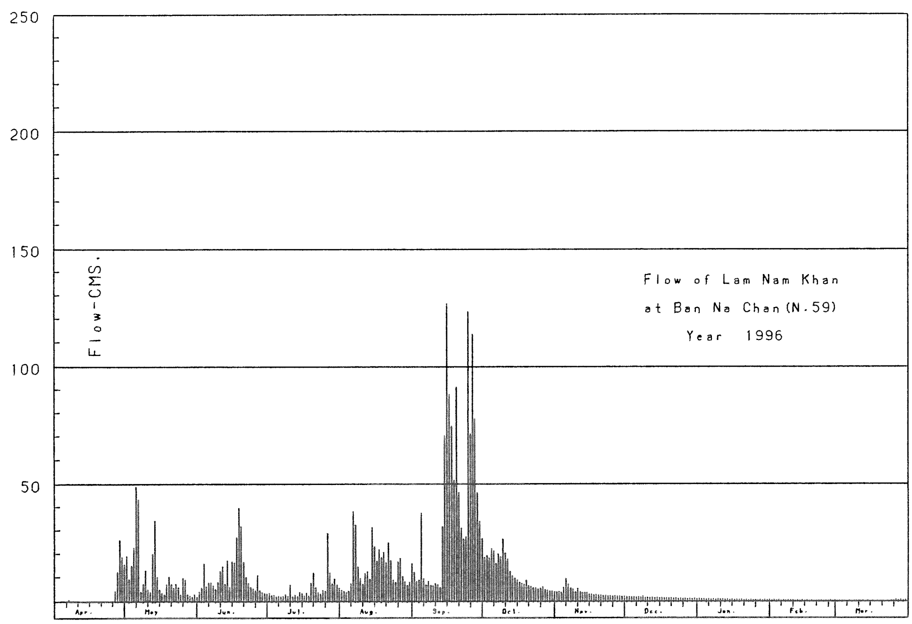
Lam Nam Khan at Ban Na Chan, Phitsanulok. (N.59)

Location	Lat. 17°-01'-43" N., Long. 100°-50'-44" E., on left bank at Ban Na Chan, Amphoe Nakhon Thai, Phitsanulok.
Drainage Area	405 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	+9.366 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	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	On overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.07	4.70	2.64	2.52	2.79	3.94	4.64	2.65	2.11	1.75	1.57	1.43	
2	1.05	3.57	3.01	2.32	2.72	3.42	4.75	2.67	2.09	1.75	1.56	1.42	
3	1.03	4.27	4.36	2.30	2.59	3.52	4.62	2.63	2.07	1.73	1.56	1.41	
4	1.07	5.10	3.08	2.16	2.75	6.20	5.06	3.02	2.04	1.73	1.54	1.41	
5	1.21	6.81	3.38	2.18	3.30	3.59	4.95	3.61	2.03	1.72	1.53	1.41	
6	1.47	6.53	3.37	2.16	6.24	3.22	4.37	3.25	2.05	1.71	1.51	1.40	
7	1.33	2.68	3.15	2.12	5.87	3.44	4.83	3.01	2.03	1.71	1.52	1.40	
8	1.22	3.29	2.91	2.41	4.22	3.19	4.67	2.88	2.19	1.70	1.54	1.40	
9	1.14	4.00	3.41	2.19	3.61	3.13	5.44	2.67	1.98	1.70	1.50	1.39	
10	1.16	2.82	4.00	3.20	3.28	3.32	4.87	2.94	1.97	1.69	1.51	1.38	
11	1.08	2.61	4.21	2.15	3.87	3.21	4.56	2.67	1.96	1.68	1.50	1.38	
12	1.06	4.83	3.28	2.32	3.95	3.03	3.99	2.56	1.96	1.67	1.50	1.38	
13	1.12	5.99	4.49	2.21	3.58	5.82	3.74	2.63	1.96	1.67	1.49	1.38	
14	1.06	3.67	3.02	2.62	5.79	7.62	3.63	2.59	1.94	1.66	1.48	1.37	
15	1.28	2.84	4.46	2.54	5.17	8.89	3.52	2.44	1.93	1.66	1.49	1.37	
16	1.14	2.52	4.39	2.20	4.49	8.09	3.41	2.40	1.92	1.65	1.49	1.36	
17	1.44	2.38	5.49	2.52	5.01	7.74	3.31	2.38	1.92	1.64	1.47	1.36	
18	1.16	3.23	6.35	2.22	4.67	6.93	3.24	2.37	1.90	1.64	1.46	1.34	
19	1.07	3.70	5.81	3.35	4.89	8.17	3.52	2.33	1.89	1.63	1.46	1.35	
20	1.05	3.29	4.45	3.92	4.40	6.68	3.17	2.30	1.88	1.62	1.46	1.34	
21	1.05	2.97	3.68	3.06	5.32	5.76	3.08	2.27	1.86	1.62	1.45	1.33	
22	1.02	3.27	3.34	2.61	4.51	5.45	3.03	2.26	1.84	1.60	1.45	1.33	
23	1.01	3.05	3.08	2.48	3.51	5.51	2.98	2.25	1.82	1.59	1.45	1.33	
24	1.01	2.33	2.92	2.77	3.41	8.83	2.92	2.23	1.83	1.58	1.44	1.32	
25	1.05	3.64	2.78	2.76	4.46	7.65	2.97	2.23	1.81	1.57	1.45	1.34	
26	2.69	3.51	3.76	5.63	4.60	8.64	3.07	2.21	1.80	1.57	1.43	1.62	
27	3.95	2.41	2.80	3.89	3.73	7.82	2.86	2.19	1.79	1.57	1.44	1.57	
28	5.41	2.18	2.59	3.32	3.42	6.69	2.77	2.17	1.78	1.57	1.43	1.60	
29	4.66	2.07	2.52	3.58	3.18	5.96	2.73	2.14	1.77	1.60		1.57	
30	4.30	2.39	2.44	3.23	3.40	5.46	2.70	2.13	1.78	1.58		1.50	
31		2.08		2.96	4.35		2.67		1.76	1.58		1.75	
Mean	1.65	3.51	3.64	2.77	4.10	5.70	3.74	2.54	1.92	1.65	1.49	1.42	
Max	5.41	6.81	6.35	5.63	6.24	8.89	5.44	3.61	2.19	1.75	1.57	1.75	8.89
Min	1.01	2.07	2.44	2.12	2.59	3.03	2.67	2.13	1.76	1.57	1.43	1.32	1.01

Annual Max Momentary Gage Height	9.00 M (A.D), at 20.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed 0.53 M (A.D)
Left Bank Elevation	7.46 M (A.D)
Right Bank Elevation	6.67 M (A.D), Drainage Area 405 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	19.50	4.20	3.68	4.95	12.72	18.96	4.25	2.27	1.38	0.96	0.74	
2	0.17	9.76	6.06	2.92	4.60	8.56	19.95	4.35	2.23	1.38	0.94	0.73	
3	0.14	15.63	16.44	2.85	3.96	9.36	18.78	4.15	2.18	1.33	0.94	0.71	
4	0.21	23.10	6.48	2.40	4.75	38.00	22.74	6.12	2.10	1.33	0.91	0.71	
5	0.42	49.25	8.28	2.45	7.80	9.92	21.75	10.08	2.08	1.30	0.89	0.71	
6	0.81	43.60	8.22	2.40	38.60	7.32	16.53	7.50	2.13	1.28	0.86	0.70	
7	0.60	4.40	6.90	2.30	33.05	8.72	20.67	6.06	2.08	1.28	0.88	0.70	
8	0.43	7.74	5.55	3.24	15.18	7.14	19.23	5.40	2.48	1.25	0.91	0.70	
9	0.31	13.20	8.48	2.48	10.08	6.78	26.92	4.35	1.95	1.25	0.85	0.68	
10	0.34	5.10	13.20	7.20	7.68	7.92	21.03	5.70	1.93	1.23	0.86	0.67	
11	0.22	4.05	15.09	2.38	12.16	7.26	18.24	4.35	1.90	1.20	0.85	0.67	
12	0.19	20.67	7.68	2.92	12.80	6.18	13.12	3.84	1.90	1.17	0.85	0.67	
13	0.28	34.85	17.61	2.53	9.84	32.30	11.12	4.15	1.90	1.17	0.84	0.67	
14	0.19	10.56	6.12	4.10	31.85	70.72	10.24	3.96	1.85	1.15	0.82	0.66	
15	0.52	5.20	17.34	3.76	23.73	126.95	9.36	3.36	1.82	1.15	0.84	0.66	
16	0.31	3.68	16.71	2.50	17.61	88.40	8.48	3.20	1.80	1.12	0.84	0.64	
17	0.76	3.13	27.57	3.68	22.29	75.04	7.86	3.13	1.80	1.10	0.81	0.64	
18	0.34	7.38	40.25	2.57	19.23	52.25	7.44	3.09	1.75	1.10	0.79	0.61	
19	0.21	10.80	32.15	8.10	21.21	91.60	9.36	2.95	1.72	1.07	0.79	0.63	
20	0.17	7.74	17.25	12.56	16.80	46.60	7.02	2.85	1.70	1.05	0.79	0.61	
21	0.17	5.85	10.64	6.36	25.44	31.40	6.48	2.74	1.65	1.05	0.78	0.60	
22	0.13	7.62	8.04	4.05	17.79	27.05	6.18	2.71	1.60	1.00	0.78	0.60	
23	0.11	6.30	6.48	3.52	9.28	27.83	5.90	2.67	1.55	0.99	0.78	0.60	
24	0.11	2.95	5.60	4.85	8.48	123.65	5.60	2.60	1.58	0.97	0.76	0.58	
25	0.17	10.32	4.90	4.80	17.34	71.80	5.85	2.60	1.52	0.96	0.78	0.61	
26	4.45	9.28	11.28	29.45	18.60	114.00	6.42	2.53	1.50	0.96	0.74	1.05	
27	12.80	3.24	5.00	12.32	11.04	77.96	5.30	2.48	1.47	0.96	0.76	0.96	
28	26.53	2.45	3.96	7.92	8.56	46.80	4.85	2.43	1.45	0.96	0.74	1.00	
29	19.14	2.18	3.68	9.84	7.08	34.40	4.65	2.35	1.42	1.00		0.96	
30	15.90	3.17	3.36	7.38	8.40	27.18	4.50	2.33	1.45	0.97		0.85	
31		2.20		5.80	16.35		4.35		1.40	0.97		1.38	
Total	86.34	354.90	344.52	173.31	466.53	1295.81	368.88	118.28	56.16	35.08	23.34	22.70	3345.85 CMSDAY
Mean	2.88	11.45	11.48	5.59	15.05	43.19	11.90	3.94	1.81	1.13	0.83	0.73	9.17 CMS
Max	26.53	49.25	40.25	29.45	38.60	126.95	26.92	10.08	2.48	1.38	0.96	1.38	126.95 CMS
Min	0.11	2.18	3.36	2.30	3.96	6.18	4.35	2.33	1.40	0.96	0.74	0.58	0.11 CMS
Runoff	7.460	30.663	29.767	14.974	40.308	111.958	31.871	10.219	4.852	3.031	2.017	1.961	289.081 MCM

Momentary Peak 133.00 CMS, at 9.00 M (A.D), at 20.00 Hours, on Sep 15, 1996

Runoff Yield 22.63 Liters/Second/Square KM, Momentary Peak Yield 328.395 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

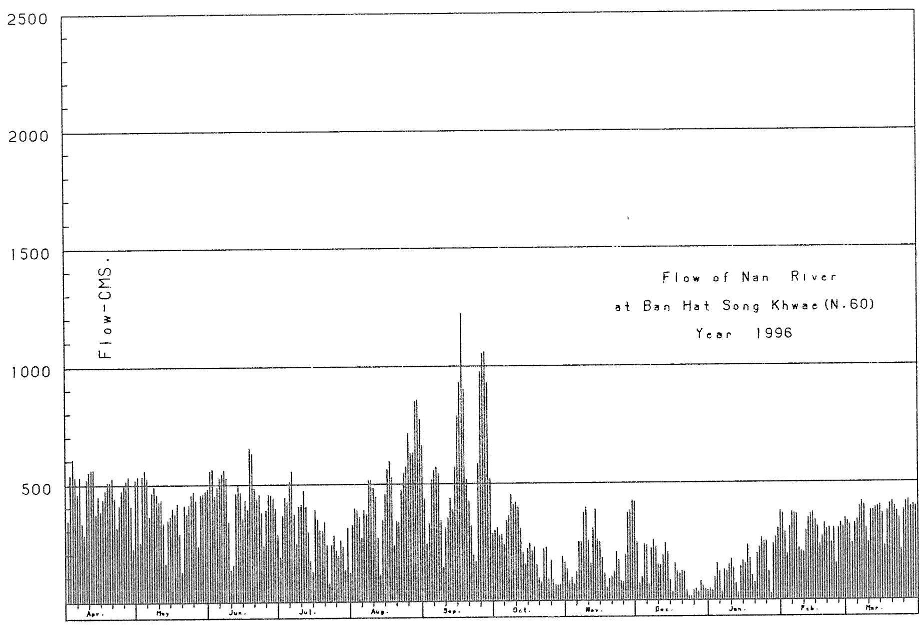
Nan River at Ban Hat Song Khwae, Uttaradit (N.60)

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	Water-stage recorder.
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	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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Sirikit Dam reservior. Stage-discharge relation defined by 30 discharge measurements made in 1996

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.38	52.40	52.51	50.36	51.24	51.89	51.08	49.95	50.74	49.22	51.51	51.29	
2	52.42	50.80	52.57	51.49	51.66	50.72	51.16	49.50	49.43	49.15	51.00	51.19	
3	52.78	52.39	51.95	51.93	51.63	51.29	50.96	49.64	49.65	49.63	50.39	50.71	
4	52.38	52.53	52.16	51.82	51.45	52.31	50.98	49.41	50.70	50.13	51.16	51.24	
5	52.00	52.35	52.37	52.28	50.91	52.51	50.71	49.85	50.65	49.85	51.54	51.34	
6	52.40	51.49	52.44	52.50	51.62	52.59	51.35	50.77	49.39	49.10	51.49	51.68	
7	51.31	52.02	52.54	51.54	51.54	52.46	51.46	50.75	50.56	49.90	51.49	51.78	
8	51.00	52.17	52.35	50.73	52.32	51.35	51.98	51.55	50.81	49.84	50.57	51.71	
9	52.35	52.00	51.34	51.71	52.30	50.04	51.73	51.66	50.61	50.06	50.46	51.10	
10	52.49	51.83	49.97	51.76	52.14	51.17	51.80	50.80	50.10	50.26	50.45	50.72	
11	52.55	51.87	50.12	52.08	51.92	51.44	51.67	50.13	50.06	49.95	51.06	51.56	
12	52.54	51.29	52.02	51.72	50.90	51.89	51.15	51.13	50.37	49.42	51.37	51.58	
13	51.55	50.18	52.20	51.08	49.78	51.63	50.47	51.63	50.72	49.04	51.50	51.63	
14	51.95	51.38	52.03	50.25	51.36	52.59	50.12	50.82	50.45	50.03	51.52	51.67	
15	51.60	51.46	51.41	49.90	52.00	53.62	50.57	50.77	49.54	50.19	51.32	51.69	
16	51.89	51.67	51.85	51.64	52.53	54.21	50.73	50.30	49.11	50.10	51.18	51.49	
17	52.09	51.55	51.66	51.40	52.72	55.37	50.50	49.80	50.14	50.66	50.66	50.62	
18	52.26	51.78	53.00	51.11	52.36	54.09	50.61	49.28	49.84	50.26	50.90	51.56	
19	52.26	51.03	52.89	51.10	50.70	52.31	50.11	49.58	49.78	49.71	51.23	51.72	
20	52.37	49.88	52.13	51.32	51.35	51.83	49.64	49.69	49.85	49.44	51.09	51.79	
21	51.92	51.75	51.88	50.69	51.30	51.22	49.48	49.85	49.84	50.42	51.14	51.66	
22	51.21	51.55	52.00	49.48	52.09	50.40	50.56	50.48	49.15	50.60	50.72	51.54	
23	51.74	51.75	51.58	50.70	52.46	50.23	50.62	50.24	48.93	50.85	51.12	51.38	
24	52.07	51.98	50.68	50.99	52.60	52.65	49.60	49.53	48.90	50.74	50.12	50.51	
25	52.23	52.04	51.63	50.56	53.27	54.41	50.25	49.47	49.16	50.77	51.11	51.60	
26	52.29	51.85	51.98	50.39	52.87	54.72	49.57	50.40	49.20	49.84	51.25	51.76	
27	52.40	50.68	51.98	50.84	52.89	54.73	49.39	51.54	49.11	49.03	51.16	51.81	
28	51.74	51.99	51.92	50.65	53.89	54.21	49.36	51.59	49.49	50.68	51.36	51.66	
29	50.61	51.99	51.67	49.94	53.91	52.33	49.41	51.83	49.32	50.88		51.70	
30	52.31	52.07	51.01	51.18	53.55	51.00	50.34	51.79	49.21	51.11		51.67	
31		52.11		49.86	53.04		50.17		49.15	51.56		50.18	
Mean	52.00	51.67	51.86	51.06	52.07	52.37	50.57	50.46	49.81	50.08	51.07	51.40	
Max	52.78	52.53	53.00	52.50	53.91	55.37	51.98	51.83	50.81	51.56	51.54	51.81	55.37
Min	50.61	49.88	49.97	49.48	49.78	50.04	49.36	49.28	48.90	49.03	50.12	50.18	48.90

Annual Max Momentary Gage Height 55.48 M (MSL), at 12.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 48.50 M (MSL), River Bed 48.04 M (MSL)
Left Bank Elevation 56.44 M (MSL)
Right Bank Elevation 57.61 M (MSL), Drainage Area 18692 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	349.7	537.0	559.0	191.0	326.6	440.1	300.2	135.8	248.0	49.3	371.1	334.9	
2	541.0	257.0	571.0	367.9	397.1	245.0	313.4	81.5	73.5	41.5	287.0	318.3	
3	613.0	535.1	451.5	447.7	391.6	334.9	281.0	97.8	99.0	96.6	195.5	243.5	
4	533.2	563.0	491.4	426.8	361.3	519.9	284.0	71.2	242.0	158.3	313.4	326.6	
5	461.0	527.5	531.3	514.2	273.5	559.0	243.5	123.2	234.5	123.2	376.1	343.1	
6	537.0	367.9	545.0	557.0	389.7	575.0	344.7	252.5	68.8	36.0	367.9	400.8	
7	338.2	464.8	565.0	376.1	376.1	549.0	362.9	249.5	221.0	129.5	367.9	419.3	
8	287.0	493.3	527.5	246.5	521.8	344.7	457.2	377.8	258.5	122.0	222.5	406.4	
9	527.5	461.0	343.1	406.4	518.0	147.0	410.1	397.1	228.5	149.5	206.0	303.5	
10	555.0	428.7	138.3	415.6	487.6	315.0	423.0	257.0	154.5	176.0	204.5	245.0	
11	567.0	436.3	157.0	476.2	445.8	359.6	398.9	158.3	149.5	135.8	296.9	379.4	
12	565.0	334.9	464.8	408.2	272.0	440.1	311.8	308.5	192.5	72.3	348.0	382.7	
13	377.8	164.5	499.0	300.2	114.6	391.6	207.5	391.6	245.0	29.4	369.5	391.6	
14	451.5	349.7	466.7	174.5	346.4	575.0	157.0	260.0	204.5	145.7	372.8	398.9	
15	386.0	362.9	354.7	129.5	461.0	794.5	222.5	252.5	86.1	165.7	339.8	402.6	
16	440.1	398.9	432.5	393.4	563.0	930.5	246.5	182.0	37.1	154.5	316.7	367.9	
17	478.1	377.8	397.1	353.0	601.0	1227.0	212.0	117.0	159.5	236.0	236.0	230.0	
18	510.4	419.3	658.0	305.2	529.4	901.6	228.5	56.2	122.0	176.0	272.0	379.4	
19	510.4	291.9	635.4	303.5	242.0	519.9	155.8	90.7	114.6	106.2	325.0	408.2	
20	531.3	127.0	485.7	339.8	344.7	428.7	97.8	103.8	123.2	74.6	301.9	421.2	
21	445.8	413.8	438.2	240.5	336.5	323.3	79.2	123.2	122.0	200.0	310.1	397.1	
22	321.6	377.8	461.0	79.2	478.1	197.0	221.0	209.0	41.5	227.0	245.0	376.1	
23	411.9	413.8	382.7	242.0	549.0	171.5	230.0	173.0	19.1	264.5	306.8	349.7	
24	474.3	457.2	239.0	285.5	577.0	587.0	93.0	84.9	16.5	248.0	157.0	213.5	
25	504.7	468.6	391.6	221.0	716.4	980.5	174.5	78.1	42.6	252.5	305.2	386.0	
26	516.1	432.5	457.2	195.5	631.3	1058.0	89.6	197.0	47.0	122.0	328.3	415.6	
27	537.0	239.0	457.2	263.0	635.4	1060.5	68.8	376.1	37.1	28.3	313.4	424.9	
28	411.9	459.1	445.8	234.5	855.2	930.5	65.4	384.4	80.4	239.0	346.4	397.1	
29	228.5	459.1	398.9	134.5	859.7	523.7	71.2	428.7	60.8	269.0		404.5	
30	519.9	474.3	288.6	316.7	778.7	287.0	188.0	421.2	48.1	305.2		398.9	
31		481.9		124.5	666.6		163.2		41.5	379.4		164.5	
Total	13931.9	12575.6	13234.2	9469.6	15047.1	16717.1	7102.2	6439.6	3818.9	4913.0	8402.7	11031.2	122683.1 CMSDAY
Mean	464.4	405.7	441.1	305.5	485.4	557.2	229.1	214.7	123.2	158.5	300.1	355.8	336.1 CMS
Max	613.0	563.0	658.0	557.0	859.7	1227.0	457.2	428.7	258.5	379.4	376.1	424.9	1227.0 CMS
Min	228.5	127.0	138.3	79.2	114.6	147.0	65.4	56.2	16.5	28.3	157.0	164.5	16.5 CMS
Runoff	1203.72	1086.53	1143.44	818.17	1300.07	1444.36	613.63	556.38	329.95	424.48	725.99	953.10	10599.82 MCM

Momentary Peak 1256.20 CMS, at 55.48 M (MSL), at 12.00 Hours, on Sep 17, 1996

Runoff Yield 17.98 Liters/Second/Square KM, Momentary Peak Yield 67.205 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

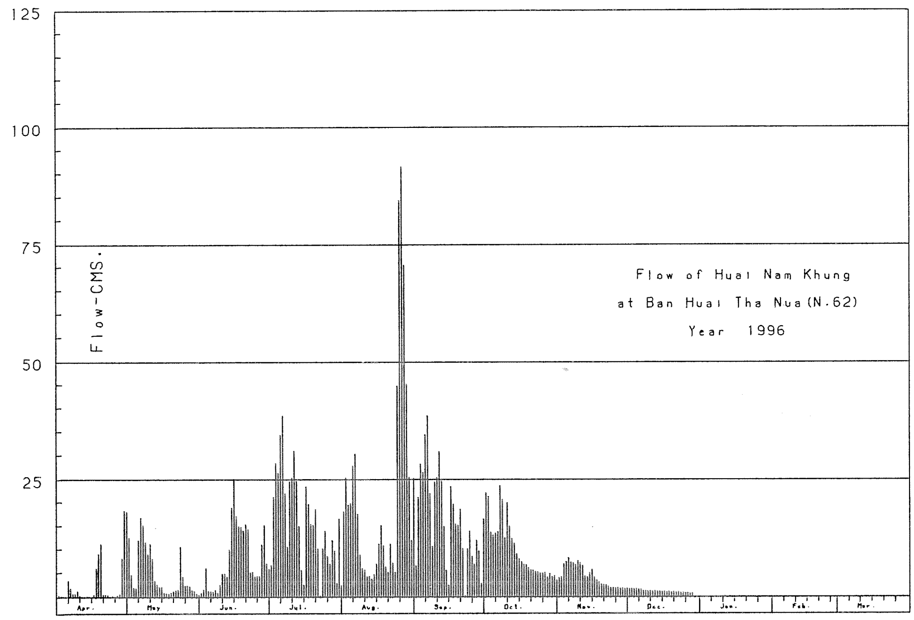
Huai Nam Khung at Ban Huau THa Nua, Phitsanulok. (N.62)

Location	Lat. 17°-14′-25″ N., Long. 100°-33′-11″ E., on left bank at Ban Huai Tha Nua, Amphoe Chat Trakan, Phitsanulok.
Drainage Area	350 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 60 meters from the top staff gage.
Elevation	+10.253 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	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow Starts at elevation + 6.15 m (A.D), records are channel flow only.
General Description	Records good.The weir situated about 30 meters downstream from the gage site.Stage-discharge relation defined by 26 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	2.38	1.10	1.86	2.79	1.86	3.06	1.57	1.29	1.00	1.06	0.95	
2	0.90	1.63	1.25	2.99	3.26	2.99	3.00	1.58	1.28	1.00	1.05	0.95	
3	0.90	1.32	1.80	3.43	2.88	3.43	2.48	1.90	1.28	1.00	1.05	0.94	
4	0.85	1.29	1.22	3.32	2.91	3.32	2.42	1.94	1.28	1.00	1.05	0.94	
5	1.51	2.34	1.18	3.78	3.40	3.78	2.46	2.03	1.27	1.00	1.05	0.94	
6	1.29	2.70	1.18	4.00	3.55	4.00	2.48	1.93	1.26	1.08	1.05	0.93	
7	1.10	2.60	1.24	3.04	2.75	3.04	3.16	1.92	1.22	1.10	1.00	0.93	
8	1.05	2.30	1.15	2.23	2.09	2.23	2.96	1.87	1.20	1.10	1.00	0.93	
9	1.21	2.10	1.39	3.21	1.78	3.21	2.38	1.97	1.20	1.10	1.00	0.92	
10	0.93	2.28	1.67	3.26	1.75	3.26	2.92	1.92	1.20	1.09	1.00	0.92	
11	0.90	2.00	1.66	3.58	1.60	3.58	2.58	1.86	1.20	1.08	1.00	0.92	
12	0.91	1.50	1.60	3.22	1.60	3.22	2.36	1.60	1.20	1.08	1.00	0.92	
13	0.89	1.40	2.18	2.58	1.54	2.58	2.29	1.59	1.19	1.08	0.98	0.92	
14	0.87	1.34	2.84	1.75	1.64	1.75	2.10	1.68	1.18	1.07	0.98	0.90	
15	0.80	1.33	3.25	1.40	1.90	1.40	2.00	1.77	1.18	1.07	1.00	0.88	
16	1.01	1.15	2.72	3.14	2.27	3.14	1.95	1.58	1.18	1.08	1.00	0.87	
17	1.80	1.10	2.58	2.90	2.60	2.90	1.88	1.52	1.17	1.08	1.00	0.87	
18	2.10	1.10	2.56	2.61	2.24	2.61	1.88	1.46	1.17	1.08	0.99	0.87	
19	2.28	1.13	2.50	2.60	1.82	2.60	1.80	1.42	1.16	1.07	0.98	0.86	
20	1.03	1.20	2.61	2.82	1.70	2.82	1.76	1.40	1.16	1.07	0.98	0.86	
21	1.02	1.22	2.52	2.19	2.28	2.19	1.74	1.40	1.15	1.07	0.97	0.86	
22	0.99	1.24	1.70	0.98	1.92	0.98	1.72	1.35	1.15	1.07	0.97	0.86	
23	0.90	2.23	1.70	2.20	1.69	2.20	1.70	1.32	1.14	1.07	0.98	0.85	
24	0.90	1.60	1.60	2.49	4.31	2.49	1.68	1.31	1.14	1.06	0.98	0.85	
25	0.89	1.38	1.60	2.06	6.00	2.06	1.68	1.31	1.13	1.06	0.98	0.86	
26	0.93	1.37	1.60	1.89	6.29	1.89	1.69	1.31	1.11	1.06	0.98	0.88	
27	1.07	1.35	2.27	2.34	5.45	2.34	1.59	1.30	1.10	1.06	0.98	0.90	
28	2.02	1.24	2.60	2.15	4.33	2.15	1.66	1.30	1.10	1.06	0.95	1.05	
29	2.80	1.19	1.90	1.44	3.27	1.44	1.60	1.29	1.00	1.06		1.10	
30	2.79	1.10	1.78	2.68	2.34	2.68	1.61	1.29	1.00	1.06		1.04	
31		1.00		1.36	3.25		1.50		1.00	1.06		0.90	
Mean	1.25	1.58	1.90	2.56	2.81	2.60	2.13	1.59	1.17	1.06	1.00	0.92	
Max	2.80	2.70	3.25	4.00	6.29	4.00	3.16	2.03	1.29	1.10	1.06	1.10	6.29
Min	0.80	1.00	1.10	0.98	1.54	0.98	1.50	1.29	1.00	1.00	0.95	0.85	0.80

Annual Max Momentary Gage Height 6.45 M (AD), at 6.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.02 M (AD)
Left Bank Elevation 6.69 M (AD)
Right Bank Elevation 6.15 M (AD), Drainage Area 350 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	12.75	0.88	6.84	18.35	6.84	22.40	4.23	1.90	0.16	0.23	0.14	
2	0.28	4.77	1.66	21.35	25.55	21.35	21.50	4.32	1.84	0.16	0.22	0.14	
3	0.28	2.11	6.30	28.52	19.70	28.52	14.00	7.20	1.84	0.16	0.22	0.14	
4	0.19	1.90	1.48	26.60	20.15	26.60	13.25	7.60	1.84	0.16	0.22	0.14	
5	3.69	12.25	1.26	34.65	28.00	34.65	13.75	8.52	1.78	0.16	0.22	0.14	
6	1.90	17.00	1.26	38.75	30.62	38.75	14.00	7.50	1.72	0.26	0.22	0.13	
7	0.88	15.50	1.60	22.10	17.75	22.10	23.90	7.40	1.48	0.28	0.16	0.13	
8	0.70	11.75	1.12	10.88	9.15	10.88	20.90	6.93	1.36	0.28	0.16	0.13	
9	1.42	9.25	2.64	24.67	6.12	24.67	12.75	7.90	1.36	0.28	0.16	0.13	
10	0.35	11.50	5.13	25.55	5.85	25.55	20.30	7.40	1.36	0.27	0.16	0.13	
11	0.28	8.20	5.04	31.15	4.50	31.15	15.25	6.84	1.36	0.26	0.16	0.13	
12	0.30	3.60	4.50	24.85	4.50	24.85	12.50	4.50	1.36	0.26	0.16	0.13	
13	0.26	2.72	10.25	15.25	3.96	15.25	11.63	4.41	1.31	0.26	0.15	0.13	
14	0.23	2.26	19.10	5.85	4.86	5.85	9.25	5.22	1.26	0.24	0.15	0.12	
15	0.10	2.19	25.37	2.72	7.20	2.72	8.20	6.03	1.26	0.24	0.16	0.12	
16	0.56	1.12	17.30	23.60	11.38	23.60	7.70	4.32	1.26	0.26	0.16	0.12	
17	6.30	0.88	15.25	20.00	15.50	20.00	7.02	3.78	1.22	0.26	0.16	0.12	
18	9.25	0.88	15.00	15.65	11.00	15.65	7.02	3.25	1.22	0.26	0.16	0.12	
19	11.50	1.02	14.25	15.50	6.48	15.50	6.30	2.90	1.17	0.24	0.15	0.12	
20	0.63	1.36	15.65	18.80	5.40	18.80	5.94	2.72	1.17	0.24	0.15	0.12	
21	0.59	1.48	14.50	10.38	11.50	10.38	5.76	2.72	1.12	0.24	0.15	0.12	
22	0.50	1.60	5.40	0.47	7.40	0.47	5.58	2.34	1.12	0.24	0.15	0.12	
23	0.28	10.88	5.40	10.50	5.31	10.50	5.40	2.11	1.07	0.24	0.15	0.12	
24	0.28	4.50	4.50	14.13	44.97	14.13	5.22	2.04	1.07	0.23	0.15	0.12	
25	0.26	2.57	4.50	8.83	84.50	8.83	5.22	2.04	1.02	0.23	0.15	0.12	
26	0.35	2.49	4.50	7.11	91.75	7.11	5.31	2.04	0.93	0.23	0.15	0.12	
27	0.77	2.34	11.38	12.25	70.75	12.25	4.41	1.96	0.88	0.23	0.15	0.12	
28	8.41	1.60	15.50	9.88	45.42	9.88	5.04	1.96	0.88	0.23	0.14	0.22	
29	18.50	1.31	7.20	3.07	25.72	3.07	4.50	1.90	0.16	0.23		0.28	
30	18.35	0.88	6.12	16.70	12.25	16.70	4.59	1.90	0.16	0.23		0.21	
31		0.52		2.42	25.37		3.60		0.16	0.23		0.12	
Total	87.91	153.18	244.04	509.02	680.96	506.60	322.19	133.98	37.64	7.25	4.72	4.25	2691.74 CMSDAY
Mean	2.93	4.94	8.13	16.42	21.97	16.89	10.39	4.47	1.21	0.23	0.17	0.14	7.37 CMS
Max	18.50	17.00	25.37	38.75	91.75	38.75	23.90	8.52	1.90	0.28	0.23	0.28	91.75 CMS
Min	0.10	0.52	0.88	0.47	3.96	0.47	3.60	1.90	0.16	0.16	0.14	0.12	0.10 CMS
Runoff	7.595	13.235	21.085	43.979	58.835	43.770	27.837	11.576	3.252	0.626	0.408	0.367	232.566 MCM

Momentary Peak 95.87 CMS, at 6.45 M (AD), at 6.00 Hours, on Sep 17, 1996
Runoff Yield 21.07 Liters/Second/Square KM, Momentary Peak Yield 273.914 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

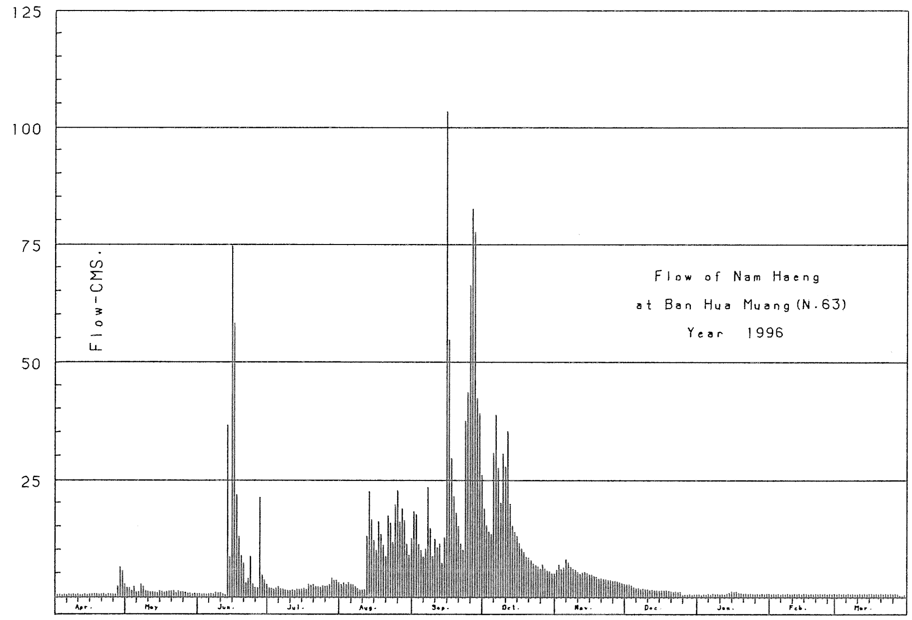
Nam Haeng at Ban Hua Muang, Nan (N.63)

Location	Lat. 18°-21′-48″ N., Long. 100°-43′-41″ E., on left bank at the bridge on road, Ban Hua Muang, 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	+11.000 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	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	1.05	0.81	1.05	1.15	2.03	2.07	1.17	0.88	0.76	0.80	0.80	
2	0.75	1.04	0.80	1.02	1.19	2.00	1.85	1.25	0.87	0.75	0.80	0.80	
3	0.75	0.95	0.80	1.00	1.15	1.59	1.77	1.18	0.86	0.76	0.80	0.80	
4	0.75	1.08	0.80	1.02	1.20	1.49	1.73	1.20	0.81	0.77	0.79	0.80	
5	0.76	0.89	0.81	1.09	1.16	1.39	2.68	1.35	0.79	0.80	0.79	0.80	
6	0.77	0.88	0.80	1.00	1.13	1.51	3.06	1.29	0.79	0.78	0.78	0.80	
7	0.78	1.16	0.81	1.01	1.08	2.31	2.52	1.22	0.77	0.80	0.80	0.80	
8	0.77	1.07	0.86	0.96	1.01	1.82	2.14	1.18	0.78	0.80	0.80	0.80	
9	0.77	0.94	0.85	0.96	0.97	1.39	2.67	1.17	0.77	0.78	0.80	0.80	
10	0.77	0.90	0.84	0.95	0.98	1.66	2.54	1.12	0.76	0.78	0.80	0.80	
11	0.77	0.89	0.80	0.96	0.97	1.54	2.90	1.09	0.75	0.77	0.80	0.80	
12	0.77	0.90	0.77	0.95	1.71	1.59	2.12	1.11	0.75	0.78	0.80	0.80	
13	0.77	0.86	2.96	0.98	2.27	1.29	1.85	1.13	0.74	0.80	0.80	0.80	
14	0.77	0.86	1.38	0.99	1.93	1.69	1.76	1.10	0.73	0.86	0.80	0.80	
15	0.77	0.92	4.42	0.99	1.65	5.18	1.71	1.08	0.73	0.91	0.80	0.80	
16	0.78	0.90	3.87	1.02	1.49	3.75	1.60	1.07	0.73	0.90	0.80	0.80	
17	0.82	0.88	2.23	1.00	1.91	2.63	1.52	1.05	0.74	0.90	0.79	0.80	
18	0.80	0.89	1.70	1.15	1.73	2.21	1.46	1.03	0.73	0.85	0.79	0.80	
19	0.78	0.93	1.41	1.13	1.57	2.02	1.39	1.00	0.73	0.82	0.79	0.80	
20	0.80	0.91	1.28	1.14	1.40	1.84	1.37	1.00	0.71	0.82	0.80	0.80	
21	0.79	0.95	1.20	1.09	1.98	1.59	1.33	0.99	0.70	0.81	0.80	0.80	
22	0.77	0.86	1.31	1.07	1.89	1.50	1.27	0.98	0.71	0.81	0.80	0.80	
23	0.78	0.92	1.73	1.07	1.62	3.00	1.25	0.97	0.70	0.81	0.80	0.80	
24	0.79	0.89	1.17	1.10	2.11	3.27	1.22	0.96	0.70	0.81	0.80	0.80	
25	0.76	0.88	1.05	1.10	2.28	4.15	1.19	0.95	0.75	0.80	0.80	0.80	
26	0.77	0.87	1.05	1.09	1.90	4.66	1.26	0.94	0.75	0.80	0.80	0.80	
27	1.10	0.84	2.61	1.15	2.07	4.51	1.18	0.94	0.77	0.80	0.80	0.80	
28	1.57	0.82	1.40	1.32	1.92	3.22	1.15	0.91	0.77	0.80	0.80	0.85	
29	1.50	0.81	1.26	1.27	1.59	3.07	1.13	0.90	0.76	0.80		0.87	
30	1.15	0.81	1.14	1.26	1.41	2.45	1.10	0.88	0.76	0.80		0.90	
31		0.82		1.20	1.67		1.09		0.78	0.80		0.95	
Mean	0.85	0.92	1.43	1.07	1.55	2.41	1.74	1.07	0.76	0.81	0.80	0.81	
Max	1.57	1.16	4.42	1.32	2.28	5.18	3.06	1.35	0.88	0.91	0.80	0.95	5.18
Min	0.75	0.81	0.77	0.95	0.97	1.29	1.09	0.88	0.70	0.75	0.78	0.80	0.70

Annual Max Momentary Gage Height 6.75 M (A.D), at 10.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.12 M (A.D)
Left Bank Elevation 10.00 M (A.D)
Right Bank Elevation 6.80 M (A.D), Drainage Area 788 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	2.17	0.87	2.17	2.86	18.34	19.06	6.00	2.90	0.69	0.82	0.82	
2	0.66	2.11	0.82	1.98	3.15	17.80	15.36	6.97	2.80	0.66	0.82	0.82	
3	0.66	1.58	0.82	1.85	2.86	11.47	14.11	6.12	2.70	0.69	0.82	0.82	
4	0.66	2.37	0.82	1.98	3.22	10.11	13.50	6.35	2.20	0.72	0.79	0.82	
5	0.69	1.25	0.87	2.44	2.93	8.77	30.80	8.24	2.02	0.82	0.79	0.82	
6	0.72	1.20	0.82	1.85	2.72	10.39	39.02	7.46	2.02	0.76	0.76	0.82	
7	0.76	2.93	0.87	1.91	2.37	23.49	27.60	6.60	1.84	0.82	0.82	0.82	
8	0.72	2.31	1.11	1.63	1.91	14.88	20.32	6.12	1.93	0.82	0.82	0.82	
9	0.72	1.52	1.06	1.63	1.69	8.77	30.60	6.00	1.84	0.76	0.82	0.82	
10	0.72	1.30	1.01	1.58	1.74	12.47	28.00	5.43	1.76	0.76	0.82	0.82	
11	0.72	1.25	0.82	1.63	1.69	10.79	35.50	5.09	1.67	0.72	0.82	0.82	
12	0.72	1.30	0.72	1.58	13.20	11.47	19.96	5.31	1.67	0.76	0.82	0.82	
13	0.72	1.11	36.82	1.74	22.73	7.46	15.36	5.54	1.59	0.82	0.82	0.82	
14	0.72	1.11	8.64	1.80	16.64	12.91	13.96	5.20	1.51	1.11	0.82	0.82	
15	0.72	1.41	74.84	1.80	12.32	103.50	13.20	4.98	1.51	1.36	0.82	0.82	
16	0.76	1.30	58.31	1.98	10.11	54.85	11.60	4.87	1.51	1.30	0.82	0.82	
17	0.92	1.20	21.97	1.85	16.31	29.80	10.52	4.65	1.59	1.30	0.79	0.82	
18	0.82	1.25	13.05	2.86	13.50	21.59	9.71	4.43	1.51	1.06	0.79	0.82	
19	0.76	1.47	9.03	2.72	11.20	18.16	8.77	4.10	1.51	0.92	0.79	0.82	
20	0.82	1.36	7.33	2.79	8.90	15.20	8.50	4.10	1.33	0.92	0.82	0.82	
21	0.79	1.58	3.22	2.44	17.47	11.47	7.98	4.00	1.25	0.87	0.82	0.82	
22	0.72	1.11	4.09	2.31	15.99	10.25	7.21	3.90	1.33	0.87	0.82	0.82	
23	0.76	1.41	8.89	2.31	11.89	37.70	6.97	3.80	1.25	0.87	0.82	0.82	
24	0.79	1.25	3.00	2.50	19.78	43.71	6.60	3.70	1.25	0.87	0.82	0.82	
25	0.69	1.20	2.17	2.50	22.92	66.50	6.24	3.60	0.66	0.82	0.82	0.82	
26	0.72	1.16	2.17	2.44	16.15	82.64	7.09	3.50	0.66	0.82	0.82	0.82	
27	2.50	1.01	21.30	2.86	19.06	77.72	6.12	3.50	0.72	0.82	0.82	0.82	
28	6.50	0.92	4.85	4.17	16.48	42.56	5.77	3.20	0.72	0.82	0.82	0.42	
29	5.80	0.87	3.69	3.77	11.47	39.24	5.54	3.10	0.69	0.82		0.50	
30	2.86	0.87	2.79	3.69	9.03	26.20	5.20	2.90	0.69	0.82		0.60	
31		0.92		3.22	12.61		5.09		0.76	0.82		0.85	
Total	36.84	43.80	296.77	71.98	324.90	860.21	455.26	148.76	47.39	26.99	22.75	24.51	2360.16 CMSDAY
Mean	1.23	1.41	9.89	2.32	10.48	28.67	14.69	4.96	1.53	0.87	0.81	0.79	6.47 CMS
Max	6.50	2.93	74.84	4.17	22.92	103.50	39.02	8.24	2.90	1.36	0.82	0.85	103.50 CMS
Min	0.66	0.87	0.72	1.58	1.69	7.46	5.09	2.90	0.66	0.66	0.76	0.42	0.42 CMS
Runoff	3.183	3.784	25.641	6.219	28.071	74.322	39.334	12.853	4.094	2.332	1.966	2.118	203.918 MCM

Momentary Peak 235.00 CMS, at 6.75 M (A.D), at 10.00 Hours, on Sep 15, 1996

Runoff Yield 8.21 Liters/Second/Square KM, Momentary Peak Yield 298.223 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

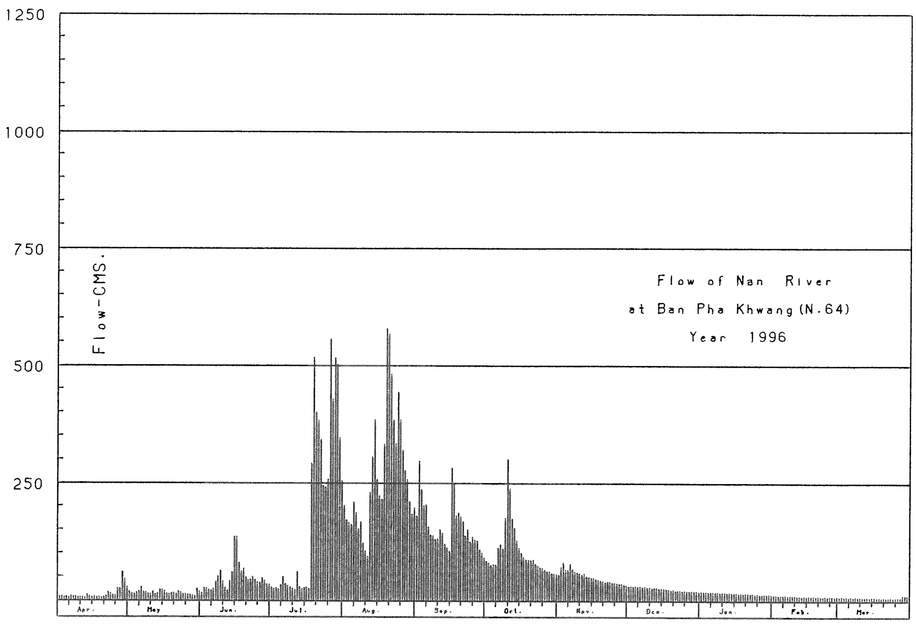
Nan River at Ban Pha Khwang, Nan (N.64)

Location	Lat. 19°-00′-31″ N., Long. 100°-47′-18″ E., on right bank at the bridge on highway, Amphoe Muang, Nan.
Drainage Area	3,432 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.- Temporary.
Location	On right bank at the approach of the bridge.
Elevation	+13.195 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	1994 to date.
Rating Operation	
Period of Rating	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 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 1996

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.07	1.27	1.22	1.39	3.12	2.92	2.02	1.70	1.42	1.27	1.15	1.06	
2	1.05	1.20	1.38	1.35	2.85	3.95	1.97	1.87	1.42	1.27	1.14	1.05	
3	1.04	1.19	1.36	1.38	2.78	3.44	1.92	1.98	1.42	1.26	1.13	1.05	
4	1.03	1.23	1.33	1.33	2.76	3.11	1.93	1.81	1.42	1.26	1.13	1.05	
5	1.03	1.28	1.31	1.45	3.19	3.14	1.93	1.81	1.41	1.26	1.13	1.04	
6	1.08	1.38	1.34	1.64	2.98	2.70	2.29	1.94	1.41	1.25	1.12	1.04	
7	1.08	1.26	1.53	1.48	2.66	2.56	2.36	1.83	1.40	1.25	1.11	1.04	
8	1.05	1.23	1.65	1.42	2.81	2.53	2.28	1.76	1.40	1.25	1.11	1.04	
9	1.02	1.20	1.79	1.40	2.40	2.47	2.88	1.75	1.39	1.24	1.11	1.03	
10	1.01	1.17	1.53	1.35	2.22	2.47	3.99	1.72	1.39	1.24	1.10	1.03	
11	1.01	1.27	1.37	1.31	2.11	2.66	3.45	1.70	1.38	1.24	1.10	1.03	
12	1.00	1.18	1.31	1.77	3.37	2.58	2.87	1.72	1.38	1.24	1.10	1.03	
13	1.16	1.20	1.53	1.41	4.03	2.37	2.69	1.66	1.37	1.23	1.10	1.02	
14	1.07	1.32	1.76	1.34	4.67	2.29	2.44	1.64	1.36	1.23	1.10	1.02	
15	1.03	1.32	2.52	1.38	3.63	2.22	2.29	1.63	1.35	1.22	1.09	1.02	
16	1.05	1.28	2.51	1.38	3.31	3.84	2.19	1.61	1.35	1.22	1.09	1.01	
17	1.03	1.20	1.98	1.36	3.25	3.54	2.09	1.59	1.34	1.21	1.09	1.01	
18	1.02	1.17	1.77	3.92	4.25	2.92	2.05	1.57	1.33	1.21	1.08	1.00	
19	1.00	1.22	1.83	5.68	6.15	2.98	2.03	1.56	1.32	1.21	1.08	1.00	
20	1.05	1.22	1.64	4.79	6.06	2.90	2.03	1.54	1.32	1.20	1.08	1.00	
21	1.08	1.19	1.57	4.65	5.41	2.82	2.04	1.53	1.31	1.20	1.07	0.99	
22	1.25	1.28	1.59	4.33	4.66	2.54	1.95	1.53	1.31	1.20	1.07	0.99	
23	1.20	1.23	1.64	3.51	4.26	2.65	1.90	1.52	1.30	1.19	1.07	0.99	
24	1.14	1.19	1.58	3.47	5.12	2.42	1.87	1.51	1.30	1.18	1.06	0.98	
25	1.11	1.17	1.51	3.63	4.66	2.51	1.85	1.50	1.29	1.18	1.06	0.98	
26	1.36	1.15	1.51	5.99	4.15	2.45	1.81	1.49	1.29	1.17	1.06	1.00	
27	1.36	1.14	1.62	5.00	3.79	2.44	1.78	1.48	1.29	1.17	1.06	1.02	
28	1.76	1.11	1.55	5.68	3.62	2.26	1.77	1.47	1.28	1.16	1.06	1.13	
29	1.58	1.10	1.47	5.57	3.20	2.18	1.73	1.46	1.28	1.16		1.14	
30	1.39	1.35	1.45	4.36	2.95	2.08	1.71	1.43	1.28	1.16		1.10	
31		1.26		3.61	3.07		1.70		1.27	1.15		1.06	
Mean	1.14	1.22	1.60	2.85	3.66	2.73	2.19	1.64	1.35	1.22	1.09	1.03	
Max	1.76	1.38	2.52	5.99	6.15	3.95	3.99	1.98	1.42	1.27	1.15	1.14	6.15
Min	1.00	1.10	1.22	1.31	2.11	2.08	1.70	1.43	1.27	1.15	1.06	0.98	0.98

Annual Max Momentary Gage Height 7.15 M (A.D), at 18.00 Hours, on Jul 18, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.21 M (A.D)
Left Bank Elevation 15.80 M (A.D)
Right Bank Elevation 12.63 M (A.D), Drainage Area 3432 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.45	20.05	16.80	29.20	203.20	181.20	86.00	56.50	31.70	20.05	13.00	9.10	
2	8.75	15.50	28.40	26.00	173.50	298.00	81.15	71.80	31.70	20.05	12.50	8.75	
3	8.40	15.00	26.80	28.40	165.80	238.40	76.40	82.10	31.70	19.40	12.00	8.75	
4	8.05	17.45	24.40	24.40	163.60	202.10	77.35	66.40	31.70	19.40	12.00	8.75	
5	8.05	20.70	22.80	34.25	210.90	205.40	77.35	66.40	30.85	19.40	12.00	8.40	
6	9.80	28.40	25.20	51.10	187.80	157.00	113.00	78.30	30.85	18.75	11.50	8.40	
7	9.80	19.40	41.20	36.80	152.60	141.60	120.00	68.20	30.00	18.75	11.00	8.40	
8	8.75	17.45	52.00	31.70	169.10	138.30	112.00	61.90	30.00	18.75	11.00	8.40	
9	7.70	15.50	64.60	30.00	124.00	131.70	176.80	61.00	29.20	18.10	11.00	8.05	
10	7.35	14.00	41.20	26.00	106.00	131.70	302.80	58.30	29.20	18.10	10.50	8.05	
11	7.35	20.05	27.60	22.80	95.00	152.60	239.50	56.50	28.40	18.10	10.50	8.05	
12	7.00	14.50	22.80	62.80	230.70	143.80	175.70	58.30	28.40	18.10	10.50	8.05	
13	13.50	15.50	41.20	30.85	307.60	121.00	155.90	52.90	27.60	17.45	10.50	7.70	
14	9.45	23.60	61.90	25.20	387.10	113.00	128.40	51.10	26.80	17.45	10.50	7.70	
15	8.05	23.60	137.20	28.40	259.60	106.00	113.00	50.20	26.00	16.80	10.15	7.70	
16	8.75	20.70	136.10	28.40	224.10	284.80	103.00	48.40	26.00	16.80	10.15	7.35	
17	8.05	15.50	82.10	26.80	217.50	249.40	93.00	46.60	25.20	16.15	10.15	7.35	
18	7.70	14.00	62.80	294.40	334.00	181.20	89.00	44.80	24.40	16.15	9.80	7.00	
19	7.00	16.80	68.20	518.40	581.00	187.80	87.00	43.90	23.60	16.15	9.80	7.00	
20	8.75	16.80	51.10	402.70	568.40	179.00	87.00	42.10	23.60	15.50	9.80	7.00	
21	9.80	15.00	44.80	384.50	483.30	170.20	88.00	41.20	22.80	15.50	9.45	6.75	
22	18.75	20.70	46.60	343.60	385.80	139.40	79.25	41.20	22.80	15.50	9.45	6.75	
23	15.50	17.45	51.10	246.10	335.20	151.50	74.50	40.30	22.00	15.00	9.45	6.75	
24	12.50	15.00	45.70	241.70	445.60	126.20	71.80	39.40	22.00	14.50	9.10	6.50	
25	11.00	14.00	39.40	259.60	385.80	136.10	70.00	38.50	21.35	14.50	9.10	6.50	
26	26.80	13.00	39.40	558.70	322.00	129.50	66.40	37.65	21.35	14.00	9.10	7.00	
27	26.80	12.50	49.30	430.00	278.80	128.40	63.70	36.80	21.35	14.00	9.10	7.70	
28	61.90	11.00	43.00	518.40	258.40	110.00	62.80	35.95	20.70	13.50	9.10	12.00	
29	45.70	10.50	35.95	504.10	212.00	102.00	59.20	35.10	20.70	13.50		12.50	
30	29.20	26.00	34.25	347.20	184.50	92.00	57.40	32.55	20.70	13.50		10.50	
31		19.40		257.20	197.70		56.50		20.05	13.00		9.10	
Total	429.65	539.05	1463.90	5849.70	8350.60	4829.30	3243.90	1544.35	802.70	515.90	292.20	252.00	28113.25 CMSDAY
Mean	14.32	17.39	48.80	188.70	269.37	160.98	104.64	51.48	25.89	16.64	10.44	8.13	77.02 CMS
Max	61.90	28.40	137.20	558.70	581.00	298.00	302.80	82.10	31.70	20.05	13.00	12.50	581.00 CMS
Min	7.00	10.50	16.80	22.80	95.00	92.00	56.50	32.55	20.05	13.00	9.10	6.50	6.50 CMS
Runoff	37.122	46.574	126.481	505.414	721.492	417.252	280.273	133.432	69.353	44.574	25.246	21.773	2428.985 MCM

Momentary Peak 721.00 CMS, at 7.15 M (A.D), at 18.00 Hours, on Jul 18, 1996

Runoff Yield 22.44 Liters/Second/Square KM, Momentary Peak Yield 210.082 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

Nam Yao at Ban Pang Sa, Nan. (N.65)

Location — Lat. 19°-13'-47" N., Long. 100°-45'-26" E., on right bank at the bridge on highway, Ban Pang Sa, Amphoe Tha Wang Pha, Nan.

Drainage Area — 637 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 — +8.630 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 — 1996 to date.

Rating Operation

Period of Rating — 1996 to date.

Rated by Float — -

Rated by Current Meter — 1996 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — On overbank flow.

General Description — Records fair. No peak discharge measurement. The peak discharge calculation using cross-section area and average velocity from past records to compute.Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

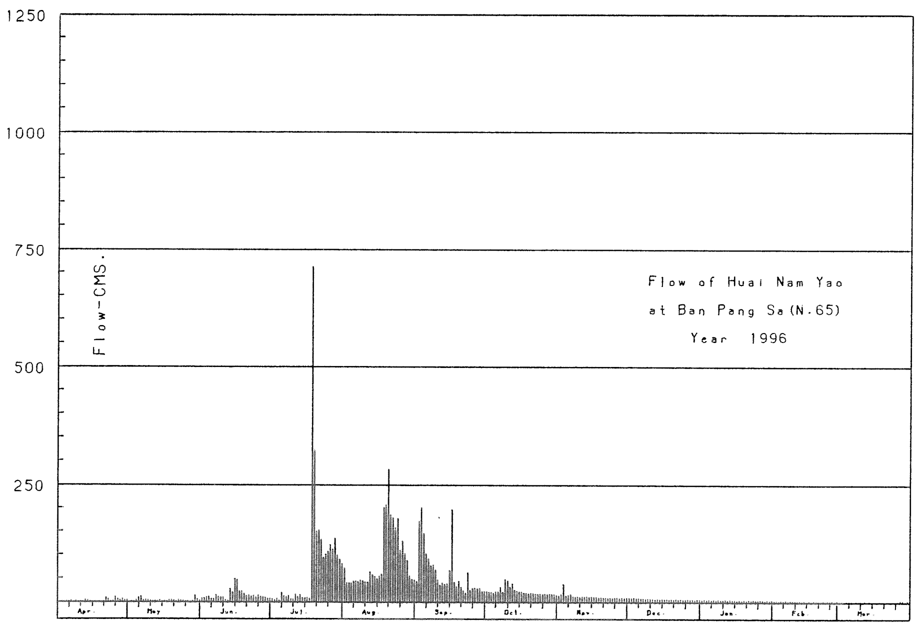
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.69	0.70	0.89	0.85	2.21	1.78	1.59	1.44	1.33	1.24	1.19	1.14	
2	0.68	0.69	0.93	0.82	1.70	3.21	1.58	1.48	1.33	1.24	1.19	1.14	
3	0.68	0.73	0.97	0.90	1.71	3.47	1.56	1.83	1.33	1.24	1.18	1.13	
4	0.68	0.78	1.01	0.78	1.69	2.97	1.54	1.44	1.33	1.24	1.18	1.13	
5	0.70	0.95	0.86	1.25	1.78	2.54	1.58	1.44	1.32	1.23	1.18	1.13	
6	0.73	1.00	0.86	1.02	1.78	2.42	1.60	1.49	1.32	1.23	1.18	1.13	
7	0.70	0.79	1.11	0.99	1.77	2.27	1.72	1.40	1.30	1.23	1.17	1.13	
8	0.69	0.77	0.98	1.05	1.81	2.28	1.58	1.39	1.30	1.23	1.17	1.13	
9	0.69	0.79	0.97	0.87	1.80	2.16	1.95	1.39	1.29	1.23	1.17	1.12	
10	0.68	0.71	0.94	0.81	1.73	1.83	1.93	1.39	1.29	1.23	1.17	1.12	
11	0.68	0.74	0.79	1.14	1.75	1.62	1.74	1.39	1.28	1.22	1.16	1.12	
12	0.80	0.75	0.78	1.02	2.10	1.70	1.83	1.40	1.27	1.22	1.16	1.12	
13	0.74	0.75	1.43	1.11	2.03	1.66	1.64	1.40	1.27	1.22	1.16	1.11	
14	0.68	0.75	1.27	0.96	1.95	1.66	1.60	1.39	1.27	1.22	1.16	1.11	
15	0.68	0.71	1.89	0.92	1.88	2.15	1.59	1.39	1.27	1.21	1.15	1.11	
16	0.67	0.70	1.83	0.93	1.96	3.44	1.58	1.38	1.27	1.21	1.15	1.10	
17	0.66	0.73	1.31	0.90	2.04	1.89	1.55	1.37	1.26	1.21	1.15	1.10	
18	0.66	0.77	1.30	6.63	3.48	1.74	1.53	1.36	1.26	1.21	1.15	1.10	
19	0.65	0.80	1.17	4.47	3.52	1.90	1.53	1.35	1.26	1.21	1.15	1.10	
20	0.68	0.75	1.03	3.01	4.16	1.73	1.53	1.35	1.26	1.21	1.15	1.10	
21	0.93	0.74	1.08	3.04	3.33	1.61	1.53	1.34	1.26	1.21	1.14	1.10	
22	0.83	0.80	1.03	2.84	3.28	1.54	1.50	1.34	1.26	1.21	1.14	1.09	
23	0.73	0.74	1.05	2.46	3.08	2.12	1.50	1.33	1.25	1.21	1.14	1.09	
24	0.69	0.74	0.97	2.52	3.27	1.64	1.50	1.33	1.25	1.21	1.14	1.09	
25	0.97	0.74	1.07	2.59	2.61	1.70	1.49	1.35	1.25	1.21	1.14	1.09	
26	0.87	0.70	1.03	2.72	2.81	1.69	1.49	1.33	1.25	1.20	1.14	1.09	
27	0.79	0.70	0.99	2.63	2.54	1.69	1.49	1.33	1.25	1.20	1.14	1.20	
28	0.85	0.72	0.93	2.87	2.40	1.69	1.49	1.33	1.24	1.20	1.14	1.16	
29	0.79	1.07	0.90	2.50	1.97	1.60	1.49	1.33	1.24	1.20		1.16	
30	0.75	0.82	0.86	2.42	1.87	1.59	1.47	1.33	1.24	1.19		1.15	
31		0.80		2.31	1.82		1.44		1.24	1.19		1.12	
Mean	0.73	0.77	1.07	1.91	2.32	2.04	1.59	1.39	1.28	1.22	1.16	1.12	
Max	0.97	1.07	1.89	6.63	4.16	3.47	1.95	1.83	1.33	1.24	1.19	1.20	6.63
Min	0.65	0.69	0.78	0.78	1.69	1.54	1.44	1.33	1.24	1.19	1.14	1.09	0.65

Annual Max Momentary Gage Height — 9.73 M (A.D), at 11.00 Hours, on Jul 18, 1996

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.30 M (A.D)

Left Bank Elevation — 8.14 M (A.D)

Right Bank Elevation — 7.98 M (A.D), Drainage Area 637 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.81	3.00	8.58	7.30	73.82	45.42	23.45	15.20	9.85	6.40	4.75	3.50	
2	2.62	2.81	9.98	6.34	41.50	172.81	22.90	17.40	9.85	6.40	4.75	3.50	
3	2.62	3.81	11.42	8.90	41.99	201.91	21.80	40.10	9.85	6.40	4.50	3.25	
4	2.62	5.16	12.87	5.16	41.03	147.41	20.70	15.20	9.85	6.40	4.50	3.25	
5	3.00	10.70	7.62	21.90	45.42	104.00	22.90	15.20	9.40	6.05	4.50	3.25	
6	3.81	12.50	7.62	13.24	45.42	92.40	24.00	17.95	9.40	6.05	4.50	3.25	
7	3.00	5.43	16.58	12.14	44.93	78.74	32.40	13.00	8.50	6.05	4.25	3.25	
8	2.81	4.89	11.78	14.35	46.93	79.56	22.90	12.55	8.50	6.05	4.25	3.25	
9	2.81	5.43	11.42	7.94	46.40	69.80	49.25	12.55	8.15	6.05	4.25	3.00	
10	2.62	3.27	10.34	6.02	42.97	47.99	47.55	12.55	8.15	6.05	4.25	3.00	
11	2.62	4.08	5.43	17.72	43.95	37.74	33.80	12.55	7.80	5.70	4.00	3.00	
12	5.70	4.35	5.16	13.24	65.00	41.50	40.10	13.00	7.45	5.70	4.00	3.00	
13	4.08	4.35	29.19	16.58	60.10	39.62	26.80	13.00	7.45	5.70	4.00	2.75	
14	2.62	4.35	22.66	11.06	54.85	39.62	24.00	12.55	7.45	5.70	4.00	2.75	
15	2.62	3.27	51.17	9.62	50.64	69.00	23.45	12.55	7.45	5.35	3.75	2.75	
16	2.43	3.00	47.99	9.98	55.48	198.52	22.90	12.10	7.45	5.35	3.75	2.50	
17	2.24	3.81	24.21	8.90	60.80	44.30	21.25	11.65	7.10	5.35	3.75	2.50	
18	2.24	4.89	23.80	714.60	203.04	33.80	20.15	11.20	7.10	5.35	3.75	2.50	
19	2.05	5.70	18.86	325.80	207.58	45.00	20.15	10.75	7.10	5.35	3.75	2.50	
20	2.62	4.35	13.61	151.55	284.80	33.10	20.15	10.75	7.10	5.35	3.75	2.50	
21	9.98	4.08	15.46	154.70	186.16	24.70	20.15	10.30	7.10	5.35	3.50	2.50	
22	6.66	5.70	13.61	134.08	180.58	20.70	18.50	10.30	7.10	5.35	3.50	2.33	
23	3.81	4.08	14.35	96.20	158.90	64.60	18.50	9.85	6.75	5.35	3.50	2.33	
24	2.81	4.08	11.42	102.00	179.47	26.80	18.50	9.85	6.75	5.35	3.50	2.33	
25	11.42	4.08	15.09	109.00	111.00	31.00	17.95	10.75	6.75	5.35	3.50	2.33	
26	7.94	3.00	13.61	122.00	131.02	30.30	17.95	9.85	6.75	5.00	3.50	2.33	
27	5.43	3.00	12.14	113.00	104.00	30.30	17.95	9.85	6.75	5.00	3.50	5.00	
28	7.30	3.54	9.98	137.14	90.50	30.30	17.95	9.85	6.40	5.00	3.50	4.00	
29	5.43	15.09	8.90	100.00	56.11	24.00	17.95	9.85	6.40	5.00		4.00	
30	4.35	6.34	7.62	92.40	50.11	23.45	16.85	9.85	6.40	4.75		3.75	
31		5.70		82.13	47.46		15.20		6.40	4.75		3.00	
Total	123.07	157.84	472.47	2624.99	2851.96	1928.39	738.05	392.10	238.50	173.05	111.00	93.15	9904.57 CMSDAY
Mean	4.10	5.09	15.75	84.68	92.00	64.28	23.81	13.07	7.69	5.58	3.96	3.00	27.14 CMS
Max	11.42	15.09	51.17	714.60	284.80	201.91	49.25	40.10	9.85	6.40	4.75	5.00	714.60 CMS
Min	2.05	2.81	5.16	5.16	41.03	20.70	15.20	9.85	6.40	4.75	3.50	2.33	2.05 CMS
Runoff	10.633	13.637	40.821	226.799	246.409	166.613	63.768	33.877	20.606	14.952	9.590	8.048	855.755 MCM

Momentary Peak 1486.40 CMS, at 9.73 M (A.D), at 11.00 Hours, on Jul 18, 1996

Runoff Yield 42.57 Liters/Second/Square KM, Momentary Peak Yield 2331.608 Liters/Second/Square KM

WATER YEAR 1996

NAN RIVER BASIN

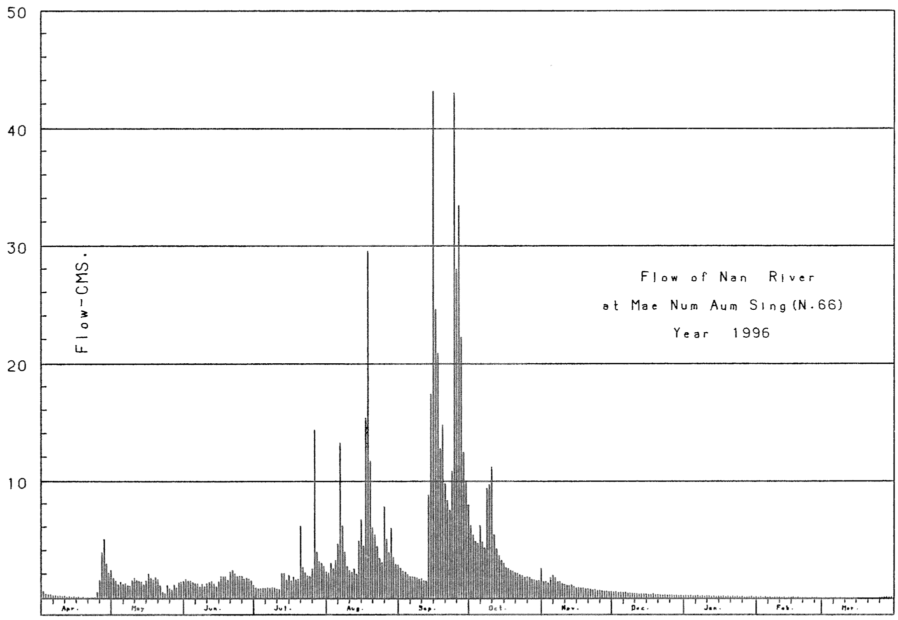
Huai Om Sing at Ban Om Sing, Phitsanulok. (N.66)

Location	Lat. 17°-07′-17″ N., Long. 100°-53′-51″ E., on right bank at Ban Om Sing, Amphoe Nakon Thai, Phitsanulok.
Drainage Area	152 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 meters from the top staff gage.
Elevation	+7.626 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	1995 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.74	0.69	0.47	0.90	1.06	1.98	0.63	0.38	0.24	0.18	0.12	
2	0.30	0.63	0.65	0.46	1.18	0.97	1.78	0.62	0.37	0.24	0.18	0.11	
3	0.29	0.55	0.64	0.45	1.04	0.94	1.65	0.59	0.36	0.24	0.17	0.11	
4	0.27	0.60	0.60	0.47	1.24	0.86	1.60	0.75	0.36	0.23	0.16	0.11	
5	0.25	0.56	0.58	0.47	1.59	0.80	1.98	0.84	0.36	0.23	0.15	0.11	
6	0.23	0.57	0.56	0.47	3.26	0.78	1.63	0.75	0.36	0.23	0.15	0.10	
7	0.23	0.53	0.50	0.47	1.98	0.78	1.51	0.63	0.34	0.22	0.15	0.11	
8	0.22	0.51	0.56	0.48	1.41	0.75	2.64	0.63	0.33	0.22	0.15	0.11	
9	0.22	0.67	0.51	0.48	1.10	0.71	2.70	0.58	0.33	0.22	0.19	0.11	
10	0.21	0.74	0.57	0.44	0.98	0.72	3.00	0.55	0.32	0.22	0.15	0.11	
11	0.20	0.67	0.61	0.43	0.93	0.66	1.79	0.54	0.32	0.21	0.15	0.11	
12	0.19	0.64	0.63	0.89	1.04	0.65	1.49	0.52	0.31	0.21	0.15	0.11	
13	0.18	0.61	0.56	0.88	0.88	2.52	1.35	0.55	0.31	0.21	0.15	0.11	
14	0.18	0.55	0.51	0.68	1.65	3.69	1.25	0.50	0.31	0.21	0.15	0.11	
15	0.16	0.65	0.63	0.84	2.10	5.26	1.17	0.48	0.30	0.21	0.15	0.11	
16	0.16	0.87	0.79	0.64	1.55	4.22	1.07	0.48	0.30	0.21	0.15	0.11	
17	0.15	0.74	0.79	0.77	3.50	3.95	1.04	0.48	0.29	0.21	0.15	0.11	
18	0.14	0.67	0.78	0.69	4.53	3.20	1.00	0.47	0.31	0.20	0.14	0.11	
19	0.13	0.77	0.68	0.70	3.07	3.44	0.96	0.46	0.28	0.20	0.14	0.11	
20	0.12	0.69	0.93	1.97	1.93	2.72	0.92	0.45	0.28	0.20	0.14	0.11	
21	0.11	0.53	0.99	1.06	1.78	2.43	0.89	0.45	0.28	0.20	0.13	0.10	
22	0.10	0.37	0.88	0.92	1.54	2.27	0.85	0.43	0.27	0.20	0.13	0.08	
23	0.17	0.31	0.80	0.81	1.29	2.93	0.82	0.43	0.26	0.20	0.12	0.08	
24	0.37	0.53	0.80	0.80	1.19	5.25	0.78	0.42	0.26	0.20	0.13	0.07	
25	0.67	0.45	0.80	1.03	2.33	4.44	0.78	0.41	0.25	0.20	0.13	0.14	
26	1.40	0.42	0.70	3.40	1.69	4.75	0.77	0.40	0.25	0.18	0.13	0.12	
27	1.69	0.54	0.75	1.42	1.41	4.05	0.71	0.40	0.25	0.19	0.12	0.19	
28	1.17	0.47	0.71	1.21	1.92	3.16	0.68	0.39	0.25	0.20	0.12	0.18	
29	0.90	0.60	0.66	1.18	1.30	2.74	0.66	0.39	0.24	0.20		0.19	
30	0.98	0.61	0.53	1.09	1.15	2.36	0.66	0.38	0.24	0.19		0.15	
31		0.64		0.94	1.13		1.04		0.24	0.18		0.14	
Mean	0.39	0.59	0.68	0.87	1.70	2.44	1.33	0.52	0.30	0.21	0.15	0.12	
Max	1.69	0.87	0.99	3.40	4.53	5.26	3.00	0.84	0.38	0.24	0.19	0.19	5.26
Min	0.10	0.31	0.50	0.43	0.88	0.65	0.66	0.38	0.24	0.18	0.12	0.07	0.07

Annual Max Momentary Gage Height	5.91 M (A.D), at 15.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed 0.03 M (A.D)
Left Bank Elevation	7.16 M (A.D)
Right Bank Elevation	7.28 M (A.D), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.630	1.741	1.608	0.889	2.165	2.631	6.220	1.449	0.576	0.252	0.158	0.092	
2	0.360	1.449	1.502	0.852	3.033	2.351	5.420	1.423	0.549	0.252	0.158	0.081	
3	0.342	1.185	1.476	0.815	2.564	2.271	4.900	1.333	0.522	0.252	0.147	0.081	
4	0.306	1.370	1.370	0.889	3.260	2.059	4.700	1.768	0.522	0.234	0.136	0.081	
5	0.270	1.222	1.296	0.889	4.660	1.900	6.220	2.006	0.522	0.234	0.125	0.081	
6	0.234	1.259	1.222	0.889	13.280	1.847	4.820	1.768	0.522	0.234	0.125	0.070	
7	0.234	1.111	1.000	0.889	6.220	1.847	4.340	1.449	0.468	0.216	0.125	0.081	
8	0.216	1.037	1.222	0.926	3.940	1.768	9.400	1.449	0.441	0.216	0.125	0.081	
9	0.216	1.556	1.037	0.926	2.765	1.661	9.700	1.296	0.441	0.216	0.169	0.081	
10	0.198	1.741	1.259	0.778	2.377	1.688	11.200	1.185	0.414	0.216	0.125	0.081	
11	0.180	1.556	1.396	0.741	2.245	1.529	5.460	1.148	0.414	0.198	0.125	0.081	
12	0.169	1.476	1.449	2.138	2.564	1.502	4.260	1.074	0.387	0.198	0.125	0.081	
13	0.158	1.396	1.222	2.112	2.112	8.800	3.700	1.185	0.387	0.198	0.125	0.081	
14	0.158	1.185	1.037	1.582	4.900	17.480	3.300	1.000	0.387	0.198	0.125	0.081	
15	0.136	1.502	1.449	2.006	6.750	43.200	2.999	0.926	0.360	0.198	0.125	0.081	
16	0.136	2.085	1.874	1.476	4.500	24.700	2.665	0.926	0.360	0.198	0.125	0.081	
17	0.125	1.741	1.874	1.821	15.400	20.900	2.564	0.926	0.342	0.198	0.125	0.081	
18	0.114	1.556	1.847	1.608	29.610	12.800	2.430	0.889	0.387	0.180	0.114	0.081	
19	0.103	1.821	1.582	1.635	11.760	14.800	2.324	0.852	0.324	0.180	0.114	0.081	
20	0.092	1.608	2.245	6.180	6.020	9.800	2.218	0.815	0.324	0.180	0.114	0.081	
21	0.081	1.111	2.404	2.631	5.420	8.350	2.138	0.815	0.324	0.180	0.103	0.070	
22	0.070	0.549	2.112	2.218	4.460	7.550	2.032	0.741	0.306	0.180	0.103	0.056	
23	0.147	0.387	1.900	1.927	3.460	10.850	1.953	0.741	0.288	0.180	0.092	0.056	
24	0.549	1.111	1.900	1.900	3.066	43.000	1.847	0.704	0.288	0.180	0.103	0.049	
25	1.556	0.815	1.900	2.530	7.850	28.080	1.847	0.667	0.270	0.180	0.103	0.114	
26	3.900	0.704	1.635	14.400	5.060	33.500	1.821	0.630	0.270	0.158	0.103	0.092	
27	5.060	1.148	1.768	3.980	3.940	22.300	1.661	0.630	0.270	0.169	0.092	0.169	
28	2.999	0.889	1.661	3.140	5.980	12.480	1.582	0.603	0.270	0.180	0.092	0.158	
29	2.165	1.370	1.529	3.033	3.500	9.900	1.529	0.603	0.252	0.180		0.169	
30	2.377	1.396	1.111	2.732	2.932	8.000	1.529	0.576	0.252	0.169		0.125	
31		1.476		2.271	2.865		2.564		0.252	0.158		0.114	
Total	23.281	40.553	46.887	70.803	178.658	359.544	119.343	31.577	11.691	6.162	3.401	2.792	894.692 CMSDAY
Mean	0.776	1.308	1.563	2.284	5.763	11.985	3.850	1.053	0.377	0.199	0.121	0.090	2.451 CMS
Max	5.060	2.085	2.404	14.400	29.610	43.200	11.200	2.006	0.576	0.252	0.169	0.169	43.200 CMS
Min	0.070	0.387	1.000	0.741	2.112	1.502	1.529	0.576	0.252	0.158	0.092	0.049	0.049 CMS
Runoff	2.011	3.504	4.051	6.117	15.436	31.065	10.311	2.728	1.010	0.532	0.294	0.241	77.301 MCM

Momentary Peak 56.82 CMS, at 5.91 M (A.D), at 15.00 Hours, on Sep 15, 1996
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

NAM MAE KOK RIVER BASIN

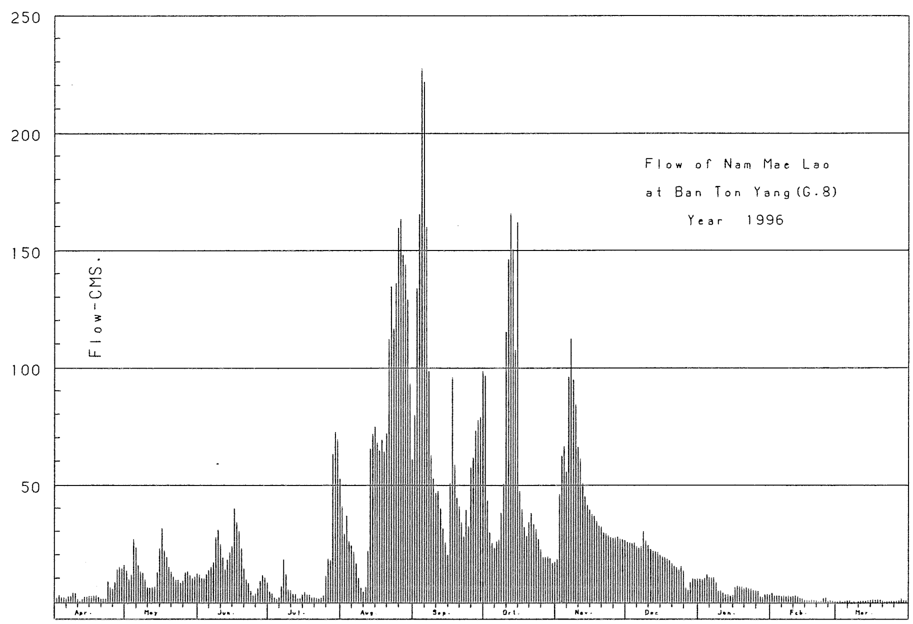
Nam Mae Lao at Ban Ton Yang, Chiang Rai (G.8)

Location	Lat. 19°-47′-27″ N., Long. 99°-45′-12″ E., on left bank at the bridge of Chiang Rai-Payao Highway, Amphoe Mae Lao, Chiang Rai.
Drainage Area	2,934 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 8.00 meters from the top staff gage.
Elevation	+5.118 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	1994 to date.
Rating Operation	
Period of Rating	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.The Mae Lao weir situated about 10 kilomrters upstream from the gage site. Stage-discharge relation defined by 81 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.71	1.19	1.00	0.75	1.56	2.09	2.28	1.16	1.31	0.95	0.73	0.44	
2	0.77	1.09	0.96	0.70	1.37	2.64	1.60	1.64	1.30	0.95	0.64	0.43	
3	0.72	1.15	0.95	0.59	1.50	2.92	1.38	1.87	1.30	0.96	0.66	0.42	
4	0.70	1.50	1.01	0.52	1.31	3.40	1.30	1.92	1.30	1.01	0.64	0.42	
5	0.69	1.43	1.05	0.60	1.28	3.36	1.26	1.78	1.27	0.97	0.64	0.47	
6	0.74	1.25	1.08	0.84	1.22	2.87	1.31	2.27	1.26	0.97	0.64	0.44	
7	0.76	1.18	1.13	1.15	1.12	2.30	1.32	2.44	1.27	0.97	0.63	0.41	
8	0.84	1.17	1.34	1.01	0.96	1.87	1.52	2.26	1.39	0.91	0.64	0.41	
9	0.84	1.08	1.40	0.80	0.83	1.74	1.71	2.14	1.32	0.76	0.63	0.40	
10	0.66	0.95	1.29	0.77	0.74	1.65	2.47	1.92	1.28	0.78	0.64	0.40	
11	0.60	0.95	1.17	0.70	0.84	1.66	2.75	1.85	1.25	0.72	0.64	0.45	
12	0.67	0.96	1.06	0.69	1.23	1.55	2.92	1.71	1.23	0.69	0.62	0.45	
13	0.72	0.96	1.15	0.56	1.91	1.41	2.79	1.63	1.23	0.67	0.58	0.45	
14	0.73	1.03	1.22	0.54	1.99	1.30	2.39	1.57	1.22	0.65	0.54	0.45	
15	0.75	1.25	1.27	0.68	2.03	1.20	2.89	1.54	1.20	0.66	0.49	0.50	
16	0.75	1.41	1.55	0.73	1.94	1.71	1.66	1.51	1.18	0.84	0.47	0.50	
17	0.77	1.23	1.45	0.68	1.90	2.27	1.54	1.50	1.18	0.85	0.46	0.51	
18	0.76	1.18	1.39	0.66	1.96	1.82	1.42	1.46	1.16	0.85	0.49	0.50	
19	0.73	1.08	1.25	0.60	1.89	1.62	1.35	1.43	1.15	0.84	0.49	0.51	
20	0.68	1.03	1.07	0.57	1.99	1.56	1.45	1.42	1.12	0.82	0.44	0.43	
21	0.66	0.98	0.94	0.55	2.44	1.45	1.52	1.38	1.10	0.83	0.42	0.43	
22	0.68	0.94	0.90	0.55	2.65	1.35	1.44	1.37	1.08	0.82	0.43	0.44	
23	1.06	0.93	0.76	0.56	2.48	1.54	1.40	1.36	1.06	0.81	0.57	0.44	
24	0.95	0.90	0.66	0.66	2.66	1.42	1.33	1.34	1.09	0.79	0.58	0.43	
25	0.93	0.92	0.69	0.99	2.87	1.80	1.24	1.34	1.05	0.78	0.45	0.44	
26	1.04	1.02	0.82	1.16	2.90	1.86	1.18	1.34	0.83	0.76	0.44	0.43	
27	1.21	1.04	0.92	1.15	2.77	2.01	1.18	1.35	0.78	0.63	0.46	0.47	
28	1.23	1.00	1.00	1.88	2.73	2.06	1.18	1.33	0.91	0.59	0.41	0.54	
29	1.22	0.95	0.96	2.00	2.60	2.08	1.17	1.33	0.95	0.69		0.49	
30	1.25	0.98	0.90	1.96	2.24	2.30	1.12	1.32	0.95	0.68		0.45	
31		1.01		1.74	1.85		1.13		0.95	0.67		0.44	
Mean	0.83	1.09	1.08	0.88	1.86	1.96	1.65	1.62	1.15	0.80	0.55	0.45	
Max	1.25	1.50	1.55	2.00	2.90	3.40	2.92	2.44	1.39	1.01	0.73	0.54	3.40
Min	0.60	0.90	0.66	0.52	0.74	1.20	1.12	1.16	0.78	0.59	0.41	0.40	0.40

Annual Max Momentary Gage Height 3.50 M (A.D), at 18.00 Hours, on Sep 4, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.11 M (A.D)
Left Bank Elevation 5.43 M (A.D)
Right Bank Elevation 5.42 M (A.D), Drainage Area 2934 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	13.53	11.80	4.78	40.98	80.17	97.02	18.66	26.07	10.15	4.41	0.84	
2	3.10	9.98	10.48	3.85	29.49	133.90	43.50	46.14	25.50	10.15	2.98	0.76	
3	2.35	12.07	10.15	2.29	37.20	165.90	30.06	62.75	25.50	10.48	3.27	0.68	
4	2.05	27.00	12.21	1.52	26.07	227.50	25.50	66.54	25.50	12.21	2.98	0.68	
5	1.92	23.64	13.85	2.40	24.50	222.10	23.50	56.02	24.00	10.81	2.98	1.07	
6	2.65	15.95	15.08	6.82	21.50	160.05	26.07	96.08	23.50	10.81	2.98	0.84	
7	2.95	13.17	17.28	18.20	16.82	98.90	26.64	112.62	24.00	10.81	2.83	0.61	
8	4.25	12.80	27.78	12.21	10.48	62.75	38.46	95.14	30.63	8.83	2.98	0.61	
9	4.25	9.70	31.20	5.70	6.54	53.06	50.84	84.40	26.64	4.96	2.83	0.53	
10	1.53	6.40	25.00	5.14	4.59	46.80	115.71	66.54	24.50	5.33	2.98	0.53	
11	0.75	6.40	19.12	3.85	6.82	47.46	146.25	61.25	23.00	4.22	2.98	0.91	
12	1.66	6.62	14.26	3.71	22.00	40.35	165.90	50.84	22.00	3.71	2.69	0.91	
13	2.35	6.62	18.20	1.96	65.77	31.80	150.85	45.48	22.00	3.42	2.18	0.91	
14	2.50	13.03	21.50	1.74	71.93	25.50	107.54	41.61	21.50	3.12	1.74	0.91	
15	2.80	23.00	24.00	3.56	75.19	20.50	162.35	39.72	20.50	3.27	1.22	1.30	
16	2.80	31.80	40.35	4.41	68.08	50.84	47.46	37.83	19.58	6.82	1.07	1.30	
17	3.10	22.00	34.20	3.56	65.00	96.08	39.72	37.20	19.58	7.10	0.99	1.41	
18	2.95	19.58	30.63	3.27	69.62	59.00	32.40	34.80	18.66	7.10	1.22	1.30	
19	2.50	15.08	23.00	2.40	64.25	44.82	28.35	33.00	18.20	6.82	1.22	1.41	
20	1.79	13.03	14.67	2.07	71.93	40.98	34.20	32.40	16.82	6.26	0.84	0.76	
21	1.53	11.14	9.82	1.85	112.62	34.20	38.46	30.06	15.90	6.54	0.68	0.76	
22	1.79	9.82	8.50	1.85	135.00	28.35	33.60	29.49	15.08	6.26	0.76	0.84	
23	9.15	9.49	4.96	1.96	116.74	39.72	31.20	28.92	14.26	5.98	2.07	0.84	
24	6.40	8.50	3.27	3.27	136.10	32.40	27.21	27.78	15.49	5.52	2.18	0.76	
25	5.96	9.16	3.71	11.47	160.05	57.50	22.50	27.78	13.85	5.33	0.91	0.84	
26	8.60	12.62	6.26	18.66	163.50	62.00	19.58	27.78	6.54	4.96	0.84	0.76	
27	14.31	13.44	9.16	18.20	148.55	73.53	19.58	28.35	5.33	2.83	0.99	1.07	
28	15.13	11.80	11.80	63.50	143.95	77.68	19.58	27.21	8.83	2.29	0.61	1.74	
29	14.72	10.15	10.48	72.70	129.50	79.34	19.12	27.21	10.15	3.71		1.22	
30	15.95	11.14	8.50	69.62	93.26	98.90	16.82	26.64	10.15	3.56		0.91	
31		12.21		53.06	61.25		17.28		10.15	3.42		0.84	
Total	143.99	420.87	491.22	409.58	2199.28	2292.08	1657.25	1400.24	583.41	196.78	56.41	28.85	9879.96 CMSDAY
Mean	4.80	13.58	16.37	13.21	70.94	76.40	53.46	46.67	18.82	6.35	2.01	0.93	27.07 CMS
Max	15.95	31.80	40.35	72.70	163.50	227.50	165.90	112.62	30.63	12.21	4.41	1.74	227.50 CMS
Min	0.75	6.40	3.27	1.52	4.59	20.50	16.82	18.66	5.33	2.29	0.61	0.53	0.53 CMS
Runoff	12.441	36.363	42.441	35.388	190.018	198.036	143.186	120.981	50.407	17.002	4.874	2.493	853.629 MCM

Momentary Peak 241.00 CMS, at 3.50 M (A.D), at 18.00 Hours, on Sep 4, 1996

Runoff Yield 9.23 Liters/Second/Square KM, Momentary Peak Yield 82.140 Liters/Second/Square KM

WATER YEAR 1996

NAM MAE ING BASIN

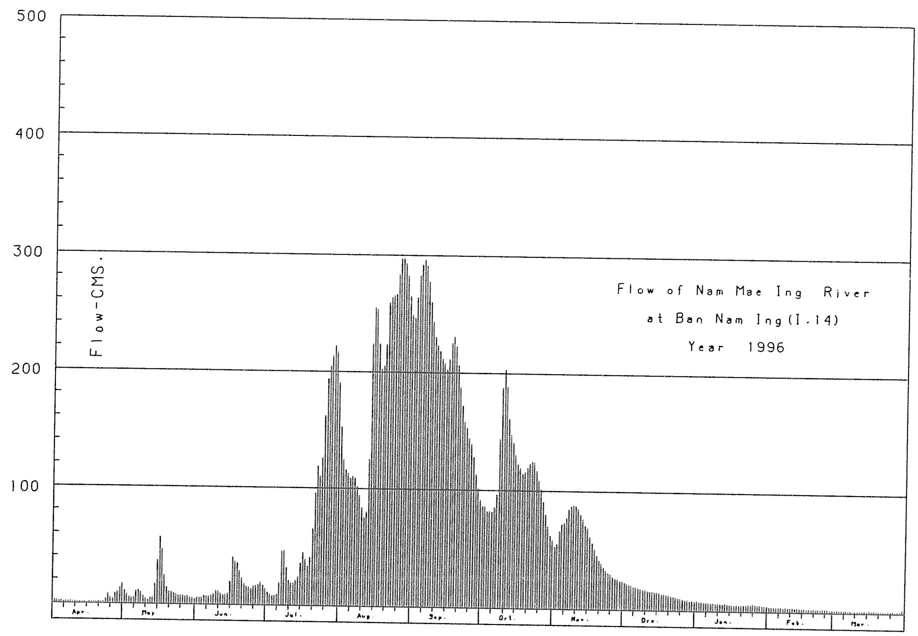
Nam Mae Ing at Ban Nam Ing, Chiang Rai (I.14)

Location	Lat. 19°-50′-00″ N., Long. 100°-12′-15″ E., on right bank at the bridge on road about 2 kilometers from Amphoe Khun Tan, Chiang Rai.
Drainage Area	6,155 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 approach of the bridge.
Elevation	+10.680 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	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow requlated by the local weir about 500 meters downstream from the gage site.Stage-discharge relation defined by 50 discharge measurements made in 1996 .

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.11	1.42	1.14	1.41	4.57	6.04	3.36	2.65	1.86	1.29	1.08	0.90	
2	1.06	1.27	1.16	1.32	4.08	6.27	3.35	2.69	1.82	1.26	1.06	0.89	
3	1.05	1.16	1.15	1.27	3.93	6.51	3.27	2.94	1.80	1.24	1.06	0.88	
4	1.02	1.12	1.25	1.27	3.87	6.62	3.27	3.05	1.77	1.24	1.05	0.87	
5	0.98	1.13	1.22	1.34	3.80	6.68	3.27	3.09	1.74	1.23	1.04	0.87	
6	0.99	1.39	1.20	1.71	3.82	6.61	3.34	3.18	1.72	1.21	1.03	0.86	
7	1.00	1.43	1.26	2.49	3.80	6.44	3.55	3.32	1.70	1.20	1.02	0.85	
8	1.00	1.35	1.32	2.50	3.67	6.23	4.42	3.38	1.67	1.19	1.03	0.84	
9	0.98	1.21	1.45	2.13	3.51	5.99	5.14	3.39	1.66	1.18	1.02	0.80	
10	0.97	1.08	1.41	1.79	3.30	5.81	5.41	3.38	1.65	1.17	1.01	0.78	
11	0.94	1.02	1.34	1.70	3.14	5.70	5.16	3.33	1.63	1.16	1.02	0.87	
12	0.94	1.13	1.29	1.72	3.23	5.64	4.71	3.24	1.61	1.17	1.01	0.86	
13	0.94	1.14	1.28	1.79	4.10	5.54	4.48	3.15	1.60	1.18	1.01	0.87	
14	0.93	1.65	1.36	1.88	5.72	5.48	4.37	3.04	1.59	1.17	1.00	0.86	
15	0.92	2.27	1.74	2.24	6.16	5.40	4.18	2.99	1.57	1.15	0.99	0.85	
16	0.94	2.75	2.36	2.46	6.13	5.53	4.05	2.84	1.56	1.12	0.97	0.87	
17	0.95	2.50	2.25	2.32	5.72	5.74	3.98	2.73	1.53	1.12	0.95	0.87	
18	0.96	1.89	2.23	2.18	5.39	5.81	3.90	2.61	1.51	1.13	0.95	0.87	
19	0.97	1.54	2.03	2.36	5.44	5.69	3.92	2.49	1.50	1.12	0.95	0.86	
20	0.96	1.38	1.83	2.93	5.71	5.46	3.99	2.39	1.48	1.12	0.96	0.85	
21	0.95	1.37	1.69	3.55	6.21	5.14	4.05	2.31	1.47	1.12	0.95	0.84	
22	0.96	1.34	1.61	3.98	6.28	4.89	4.09	2.23	1.45	1.13	0.94	0.83	
23	1.16	1.28	1.56	3.82	6.29	4.65	4.07	2.15	1.41	1.14	0.93	0.82	
24	1.29	1.24	1.53	4.10	6.31	4.57	3.95	2.11	1.40	1.15	0.95	0.82	
25	1.12	1.22	1.61	4.72	6.52	4.42	3.79	2.06	1.36	1.17	0.97	0.83	
26	1.08	1.22	1.62	5.25	6.68	4.34	3.65	2.00	1.34	1.15	0.92	0.81	
27	1.31	1.21	1.66	5.43	6.69	4.15	3.45	1.97	1.33	1.14	0.88	0.80	
28	1.36	1.20	1.72	5.56	6.64	3.88	3.23	1.93	1.31	1.12	0.90	0.79	
29	1.52	1.15	1.64	5.69	6.50	3.65	3.02	1.90	1.28	1.11		0.85	
30	1.64	1.13	1.52	5.61	6.29	3.46	2.86	1.88	1.27	1.08		0.96	
31		1.11		5.19	6.07		2.76		1.28	1.08		1.00	
Mean	1.07	1.40	1.55	2.96	5.15	5.41	3.87	2.68	1.54	1.16	0.99	0.86	
Max	1.64	2.75	2.36	5.69	6.69	6.68	5.41	3.39	1.86	1.29	1.08	1.00	6.69
Min	0.92	1.02	1.14	1.27	3.14	3.46	2.76	1.88	1.27	1.08	0.88	0.78	0.78

Annual Max Momentary Gage Height 6.70 M (A.D), at 18.00 Hours, on Aug 21, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.28 M (A.D)
Left Bank Elevation 10.63 M (A.D)
Right Bank Elevation 9.38 M (A.D), Drainage Area 6155 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.09	11.25	5.56	11.00	153.20	246.80	87.00	53.25	23.51	8.41	4.49	2.00	
2	2.45	8.03	5.94	9.03	124.90	263.60	86.50	55.05	22.27	7.84	4.18	1.93	
3	2.34	5.94	5.75	8.03	116.65	282.80	82.50	66.52	21.65	7.46	4.18	1.85	
4	2.02	5.18	7.65	8.03	113.35	291.60	82.50	71.80	20.77	7.46	4.02	1.78	
5	1.64	5.37	7.08	9.46	109.50	296.40	82.50	73.72	19.88	7.27	3.87	1.78	
6	1.72	10.53	6.70	19.00	110.60	290.80	86.00	78.04	19.29	6.89	3.71	1.70	
7	1.80	11.50	7.84	46.28	109.50	277.20	96.50	85.00	18.70	6.70	3.56	1.63	
8	1.80	9.68	9.03	46.70	102.50	260.40	144.20	88.00	17.81	6.51	3.71	1.55	
9	1.64	6.89	12.00	32.32	94.50	243.30	187.40	88.50	17.52	6.32	3.56	1.25	
10	1.56	4.49	11.00	21.35	84.00	230.70	203.65	88.00	17.22	6.13	3.40	1.10	
11	1.32	3.56	9.46	18.70	76.12	223.00	188.60	85.50	16.63	5.94	3.56	1.78	
12	1.32	5.37	8.41	19.29	80.50	218.80	161.60	81.00	16.04	6.13	3.40	1.70	
13	1.32	5.56	8.22	21.35	126.00	212.10	147.80	76.60	15.75	6.32	3.40	1.78	
14	1.24	17.22	9.89	24.13	224.40	208.20	141.20	71.32	15.50	6.13	3.25	1.70	
15	1.16	37.49	19.88	36.34	255.20	203.00	130.40	68.92	15.00	5.75	3.13	1.63	
16	1.32	57.75	40.96	45.02	253.10	211.45	123.25	61.84	14.75	5.18	2.88	1.78	
17	1.40	46.70	36.72	39.42	224.40	225.80	119.40	56.85	14.00	5.18	2.63	1.78	
18	1.48	24.44	35.95	34.09	202.40	230.70	115.00	51.45	13.50	5.37	2.63	1.78	
19	1.56	14.25	28.98	40.96	205.60	222.30	116.10	46.28	13.25	5.18	2.63	1.70	
20	1.48	10.32	22.58	66.04	223.70	206.90	119.95	42.12	12.75	5.18	2.75	1.63	
21	1.40	10.11	18.41	96.50	258.80	187.40	123.25	39.03	12.50	5.18	2.63	1.55	
22	1.48	9.46	16.04	119.40	264.40	172.40	125.45	35.95	12.00	5.37	2.50	1.48	
23	4.15	8.22	14.75	110.60	265.20	158.00	124.35	33.03	11.00	5.56	2.38	1.40	
24	8.41	7.46	14.00	126.00	266.80	153.20	117.75	31.60	10.75	5.75	2.63	1.40	
25	5.18	7.08	16.04	162.20	283.60	144.20	108.95	29.95	9.89	6.13	2.88	1.48	
26	4.49	7.08	16.34	194.00	296.40	139.40	101.50	28.00	9.46	5.75	2.25	1.33	
27	8.82	6.89	17.52	204.95	297.20	128.75	91.50	27.03	9.25	5.56	1.85	1.25	
28	9.89	6.70	19.29	213.40	293.20	113.90	80.50	25.72	8.82	5.18	2.00	1.18	
29	13.75	5.75	16.93	222.30	282.00	101.50	70.36	24.75	8.22	4.99		1.63	
30	16.93	5.37	13.75	216.70	265.20	92.00	62.76	24.13	8.03	4.49		2.75	
31		4.99		190.40	248.90		58.20		8.22	4.49		3.25	
Total	108.16	380.63	462.67	2412.99	6011.82	6236.60	3566.62	1688.95	453.93	185.80	88.06	52.53	21648.76 CMSDAY
Mean	3.61	12.28	15.42	77.84	193.93	207.89	115.05	56.30	14.64	5.99	3.14	1.69	59.31 CMS
Max	16.93	57.75	40.96	222.30	297.20	296.40	203.65	88.50	23.51	8.41	4.49	3.25	297.20 CMS
Min	1.16	3.56	5.56	8.03	76.12	92.00	58.20	24.13	8.03	4.49	1.85	1.10	1.10 CMS
Runoff	9.345	32.886	39.975	208.482	519.421	538.842	308.156	145.925	39.220	16.053	7.608	4.539	1870.453 MCM

Momentary Peak 298.00 CMS, at 6.70 M (A.D), at 18.00 Hours, on Aug 21, 1996

Runoff Yield 9.64 Liters/Second/Square KM, Momentary Peak Yield 48.416 Liters/Second/Square KM

WATER YEAR 1996

CHAO PHRAYA RIVER BASIN

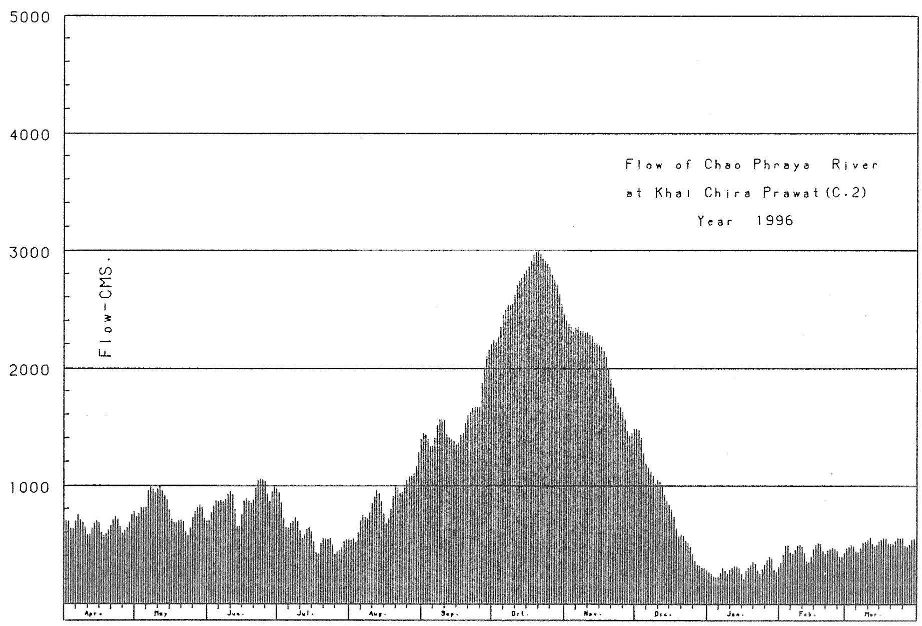
Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)

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	+25.628 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1914 to date.
Rating Operation	
Period of Rating	1956 to date.
Rated by Float	-
Rated by Current Meter	1956 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Naresuan Dam. Stage-discharge relation defined by 156 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.55	20.68	20.57	21.33	19.91	22.79	24.27	24.52	22.88	18.69	19.09	19.64	
2	20.56	20.76	20.79	21.05	19.96	22.77	24.26	24.48	22.87	18.60	19.42	19.71	
3	20.33	20.95	20.98	20.64	19.86	22.66	24.32	24.44	22.69	18.47	19.73	19.77	
4	20.30	20.92	21.10	20.34	20.19	22.50	24.44	24.38	22.35	18.40	19.77	19.73	
5	20.56	20.95	21.10	20.34	20.57	22.52	24.58	24.43	22.09	18.48	19.53	19.56	
6	20.72	21.38	21.12	20.48	20.71	22.68	24.64	24.43	21.98	18.66	19.44	19.51	
7	20.58	21.49	21.09	20.56	20.65	22.97	24.69	24.39	21.87	18.86	19.61	19.67	
8	20.52	21.41	21.15	20.64	20.63	23.09	24.69	24.39	21.77	18.77	19.74	19.83	
9	20.35	21.32	21.30	20.55	20.79	23.08	24.71	24.37	21.58	18.58	19.79	19.89	
10	20.10	21.43	21.35	20.25	21.04	23.06	24.80	24.37	21.66	18.78	19.70	19.93	
11	20.11	21.48	21.29	20.00	21.23	22.75	24.91	24.34	21.60	18.89	19.50	20.02	
12	20.33	21.39	20.88	20.09	21.38	22.70	24.95	24.32	21.52	18.95	19.16	19.82	
13	20.48	21.25	20.39	20.28	21.31	22.64	24.98	24.24	21.27	18.96	19.15	19.71	
14	20.57	21.13	20.38	20.35	21.09	22.63	25.02	24.24	21.11	18.87	19.37	19.79	
15	20.50	20.88	20.75	20.20	20.78	22.55	25.05	24.22	21.03	18.61	19.63	19.88	
16	20.19	20.59	21.12	19.86	20.49	22.57	25.09	24.18	20.88	18.36	19.77	19.96	
17	20.07	20.52	21.16	19.51	20.61	22.75	25.15	24.14	20.67	18.73	19.84	19.99	
18	20.15	20.48	21.11	19.44	20.91	22.78	25.20	24.06	20.31	18.89	19.80	20.00	
19	20.26	20.57	21.04	19.83	21.24	23.00	25.23	23.92	20.05	18.99	19.57	19.82	
20	20.43	20.56	21.13	19.97	21.49	23.15	25.24	23.75	20.08	19.13	19.45	19.80	
21	20.59	20.53	21.46	19.96	21.46	23.22	25.22	23.62	20.06	19.08	19.57	19.81	
22	20.66	20.22	21.67	19.97	21.32	23.29	25.17	23.48	19.91	18.77	19.63	19.91	
23	20.61	20.07	21.69	19.98	21.34	23.30	25.14	23.37	19.82	18.58	19.68	19.99	
24	20.37	20.35	21.68	19.78	21.47	23.30	25.12	23.30	19.70	18.82	19.62	20.00	
25	20.16	20.66	21.63	19.45	21.66	23.30	25.08	23.21	19.43	19.00	19.57	19.99	
26	20.24	20.82	21.29	19.52	21.75	23.69	25.01	23.09	19.18	19.20	19.34	19.74	
27	20.35	20.94	21.11	19.57	21.78	23.93	24.96	22.84	19.03	19.35	19.34	19.72	
28	20.51	20.99	21.36	19.68	21.83	24.07	24.91	22.73	18.96	19.26	19.48	19.80	
29	20.74	20.95	21.48	19.88	22.03	24.16	24.81	22.78	18.89	18.79		19.94	
30	20.82	20.62	21.42	19.94	22.37	24.22	24.70	22.88	18.84	18.67		19.99	
31		20.54		19.95	22.67		24.59		18.75	18.93		19.99	
Mean	20.42	20.87	21.15	20.11	21.11	23.07	24.87	23.90	20.74	18.81	19.55	19.84	
Max	20.82	21.49	21.69	21.33	22.67	24.22	25.24	24.52	22.88	19.35	19.84	20.02	25.24
Min	20.07	20.07	20.38	19.44	19.86	22.50	24.26	22.73	18.75	18.36	19.09	19.51	18.36

Annual Max Momentary Gage Height 25.25 M (MSL), at 15.00 Hours, on Oct 20, 1996
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 14.38 M (MSL)
Left Bank Elevation 25.78 M (MSL)
Right Bank Elevation 26.19 M (MSL), Drainage Area 110569 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	704.5	742.5	710.3	945.0	538.4	1450.4	2239.8	2410.2	1485.2	272.5	348.0	470.3	
2	707.4	765.9	774.7	855.1	551.0	1442.6	2233.0	2381.5	1481.4	256.0	418.0	488.0	
3	644.3	823.0	832.6	730.7	525.8	1400.0	2273.5	2354.5	1411.6	233.0	493.0	503.1	
4	636.8	813.4	871.1	646.9	609.0	1338.0	2354.5	2314.0	1282.7	221.5	503.1	493.0	
5	707.4	823.0	871.1	646.9	710.3	1345.8	2455.8	2347.8	1192.7	234.7	442.6	450.1	
6	754.2	961.1	877.6	684.4	751.3	1407.8	2501.4	2347.8	1156.0	267.0	422.3	437.5	
7	713.2	996.4	867.9	707.4	733.7	1522.7	2539.4	2320.7	1119.3	303.7	462.7	477.9	
8	695.8	970.7	887.2	730.7	727.8	1573.7	2539.4	2320.7	1086.4	287.2	495.5	518.2	
9	649.4	941.8	935.4	704.5	774.7	1569.5	2554.9	2307.3	1025.3	252.4	508.1	533.4	
10	586.3	977.1	951.4	624.2	851.9	1561.0	2626.0	2307.3	1051.0	289.0	485.4	543.5	
11	588.9	993.2	932.2	561.1	912.9	1434.9	2713.5	2287.0	1031.8	309.2	435.0	566.2	
12	644.3	964.3	801.1	583.8	961.1	1415.5	2747.5	2273.5	1006.1	320.8	362.7	515.7	
13	684.4	919.3	659.5	631.7	938.6	1392.2	2773.0	2219.5	925.7	322.7	360.6	488.0	
14	710.3	880.8	657.0	649.4	867.9	1388.4	2807.7	2219.5	874.3	305.5	407.4	508.1	
15	690.0	801.1	763.0	611.6	771.8	1357.4	2834.2	2206.0	848.6	257.8	467.8	530.8	
16	609.0	716.1	877.6	525.8	687.2	1365.1	2869.5	2179.0	801.1	214.9	503.1	551.0	
17	578.8	695.8	890.4	437.5	721.9	1434.9	2922.5	2152.0	739.5	279.8	520.8	558.6	
18	598.9	684.4	874.3	422.3	810.2	1446.5	2966.7	2100.0	639.3	309.2	510.7	561.1	
19	626.7	710.3	851.9	518.2	916.1	1535.5	2993.2	2012.5	573.7	328.5	452.7	515.7	
20	670.4	707.4	880.8	553.5	996.4	1601.5	3002.0	1912.0	581.3	356.4	424.4	510.7	
21	716.1	698.7	986.8	551.0	986.8	1634.6	2984.3	1839.2	576.2	346.1	452.7	513.2	
22	736.6	616.6	1054.2	553.5	941.8	1668.2	2940.2	1763.4	538.4	287.2	467.8	538.4	
23	721.9	578.8	1060.7	556.1	948.2	1673.0	2913.7	1706.6	515.7	252.4	480.4	558.6	
24	654.4	649.4	1057.5	505.6	990.0	1673.0	2896.0	1673.0	485.4	296.3	465.3	561.1	
25	601.5	736.6	1041.4	424.4	1051.0	1673.0	2860.7	1629.8	420.1	330.5	452.7	558.6	
26	621.6	783.5	932.2	440.0	1079.9	1878.4	2798.8	1573.7	367.0	371.3	401.0	495.5	
27	649.4	819.8	874.3	452.7	1089.6	2018.8	2756.0	1469.8	336.4	403.1	401.0	490.5	
28	692.9	835.8	954.7	480.4	1106.0	2106.2	2713.5	1427.1	322.7	384.0	430.7	510.7	
29	760.1	823.0	993.2	530.8	1172.7	2165.5	2633.9	1446.5	309.2	290.8		546.0	
30	783.5	724.9	973.9	546.0	1289.6	2206.0	2547.0	1485.2	300.0	268.8		558.6	
31		701.6		548.5	1403.9		2463.4		283.5	316.9		558.6	
Total	20139.0	24856.3	26696.0	18359.7	27417.5	47680.1	83455.0	60987.1	24767.6	9169.2	12575.5	16110.7	372213.7 CMSDAY
Mean	671.3	801.8	889.9	592.2	884.4	1589.3	2692.1	2032.9	799.0	295.8	449.1	519.7	1019.8 CMS
Max	783.5	996.4	1060.7	945.0	1403.9	2206.0	3002.0	2410.2	1485.2	403.1	520.8	566.2	3002.0 CMS
Min	578.8	578.8	657.0	422.3	525.8	1338.0	2233.0	1427.1	283.5	214.9	348.0	437.5	214.9 CMS
Runoff	1740.01	2147.58	2306.53	1586.28	2368.87	4119.56	7210.51	5269.29	2139.92	792.22	1086.52	1391.96	32159.26 MCM

Momentary Peak 3010.83 CMS, at 25.25 M (MSL), at 15.00 Hours, on Oct 20, 1996

Runoff Yield 9.22 Liters/Second/Square KM, Momentary Peak Yield 27.230 Liters/Second/Square KM

WATER YEAR 1996

CHAO PHRAYA RIVER BASIN

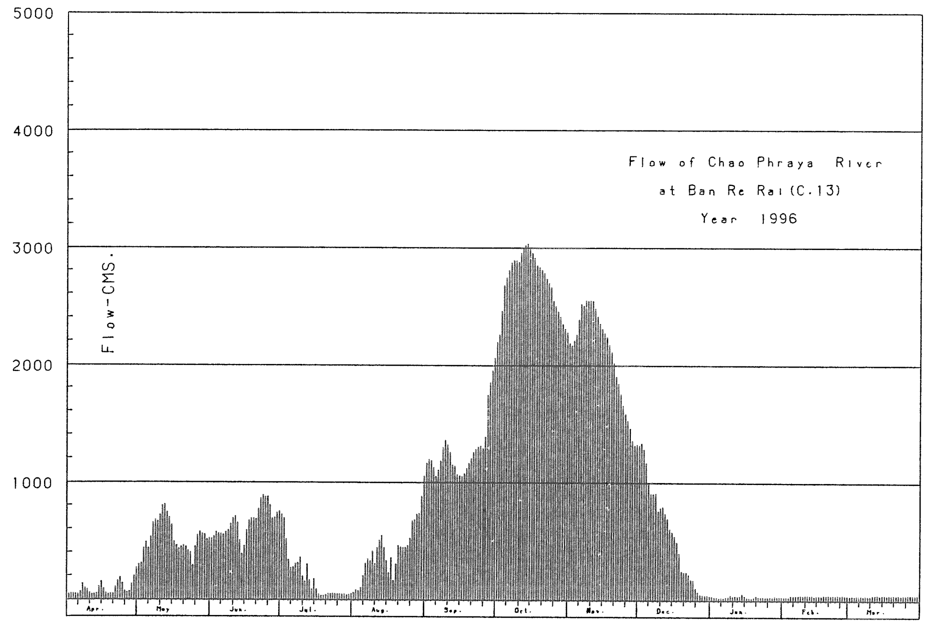
Chao Phraya River at Ban Re Rai, Chai Nat (C.13)

Location	Lat. 15°-09′-57″ N., Long. 100°-11′-32″ E., on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam, Amphoe Sanphaya, Chainat
Drainage Area	120,693 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	On rigth bank about 400 meters from the B.M.1
Elevation	+16.400 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 58 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.38	8.51	9.48	10.27	6.64	11.61	14.38	14.37	12.03	6.06	5.95	6.13	
2	6.43	8.60	9.57	10.17	6.88	11.69	14.54	14.31	12.09	5.97	5.95	6.13	
3	6.46	9.15	9.71	9.47	6.81	11.67	14.98	14.42	11.95	5.87	5.96	6.13	
4	6.39	9.36	9.67	8.74	7.08	11.49	15.47	14.53	11.61	5.81	6.19	6.13	
5	6.38	9.18	9.64	8.36	7.98	11.28	15.61	14.83	11.14	5.80	6.24	6.13	
6	6.72	9.56	9.63	8.42	8.57	11.43	15.75	15.11	10.83	5.77	6.16	6.13	
7	7.39	10.01	9.70	8.56	8.75	11.66	15.88	15.09	10.84	5.85	6.33	6.13	
8	7.05	10.10	9.78	8.61	3.70	11.98	15.93	15.18	10.84	5.98	6.29	6.13	
9	6.89	10.07	9.97	8.81	9.07	12.16	15.92	15.18	10.39	6.31	6.26	6.13	
10	6.50	10.27	10.17	7.97	8.56	12.04	15.90	15.18	10.46	6.15	6.26	6.13	
11	6.39	10.52	10.21	7.57	9.17	11.87	16.05	15.18	10.51	6.09	6.26	6.24	
12	6.38	10.54	10.04	8.56	9.44	11.56	16.14	15.03	10.32	6.09	6.26	6.33	
13	6.44	10.35	9.42	7.72	9.59	11.54	16.19	14.89	10.17	6.15	6.20	6.30	
14	7.12	10.17	8.96	6.92	9.20	11.32	16.21	14.74	9.82	6.53	6.14	6.24	
15	7.58	9.95	9.23	7.75	8.71	11.29	16.15	14.65	9.73	6.14	6.13	6.26	
16	7.02	9.38	9.76	6.99	8.13	11.26	16.06	14.56	9.58	5.88	6.13	6.26	
17	6.46	9.26	10.10	6.38	8.81	11.35	15.97	14.49	9.39	5.77	6.18	6.26	
18	6.38	9.13	10.15	6.16	7.70	11.47	15.84	14.33	8.99	5.77	6.26	6.26	
19	6.38	9.22	10.15	6.07	8.57	11.61	15.80	14.19	8.25	5.82	6.26	6.26	
20	6.47	9.25	10.14	6.34	9.26	11.71	15.76	13.94	8.17	6.26	6.26	6.26	
21	7.11	9.22	10.44	6.46	9.22	11.87	15.70	13.65	8.20	5.95	6.26	6.26	
22	7.60	9.06	10.70	6.50	9.18	11.93	15.60	13.48	8.05	6.00	6.26	6.26	
23	7.87	9.00	10.80	6.50	9.21	12.00	15.51	13.25	7.78	5.95	6.26	6.26	
24	7.46	8.49	10.74	6.52	9.25	12.02	15.44	12.97	7.73	5.95	6.26	6.26	
25	6.76	9.23	10.76	6.47	9.52	11.96	15.18	12.78	7.12	5.95	6.26	6.26	
26	6.58	9.59	10.54	6.39	10.09	12.22	15.07	12.61	6.70	5.95	6.26	6.26	
27	6.75	9.72	10.16	6.40	10.11	13.22	14.98	12.44	6.43	5.95	6.23	6.26	
28	7.37	9.64	10.17	6.40	10.29	13.50	14.87	12.14	6.31	6.03	6.13	6.26	
29	7.95	9.64	10.32	6.25	10.30	13.78	14.74	12.04	6.27	6.01		6.26	
30	8.35	9.48	10.37	6.30	10.77	14.05	14.64	12.05	6.21	5.95		6.26	
31		9.49		6.45	11.27		14.57		6.14	5.95		6.26	
Mean	6.90	9.52	10.02	7.43	8.93	11.95	15.51	14.05	9.16	5.99	6.20	6.22	
Max	8.35	10.54	10.80	10.27	11.27	14.05	16.21	15.18	12.09	6.53	6.33	6.33	16.21
Min	6.38	8.49	8.96	6.07	6.64	11.26	14.38	12.04	6.14	5.77	5.95	6.13	5.77

Annual Max Momentary Gage Height 16.23 M (MSL), at 23.00 Hours, on Oct 13, 1996
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 1.79 M (MSL)
Left Bank Elevation 16.58 M (MSL)
Right Bank Elevation 16.34 M (MSL), Drainage Area 120693 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.4	303.5	525.5	731.7	70.2	1172.5	2196.6	2192.4	1320.8	39.1	34.5	42.0	
2	56.1	320.0	548.3	704.0	90.0	1200.7	2265.9	2167.2	1342.5	35.3	34.5	42.0	
3	57.8	443.2	583.7	523.0	84.2	1193.7	2461.2	2213.7	1292.4	31.2	34.9	42.0	
4	53.9	495.2	573.6	349.8	108.0	1131.0	2682.9	2261.5	1172.5	28.7	44.4	42.0	
5	53.4	450.3	566.0	276.0	212.0	1060.3	2746.3	2394.0	1013.9	28.3	46.5	42.0	
6	76.7	545.7	563.4	287.0	314.5	1110.4	2810.8	2520.0	911.2	27.0	43.2	42.0	
7	140.5	659.8	581.1	312.7	352.0	1190.1	2872.8	2511.0	914.5	30.4	50.6	42.0	
8	105.0	684.7	601.4	322.1	341.0	1302.9	2896.6	2551.7	914.5	35.7	48.6	42.0	
9	90.8	676.4	649.4	365.3	424.4	1367.7	2891.9	2551.7	767.0	49.5	47.3	42.0	
10	60.0	731.7	704.0	210.5	312.7	1324.4	2882.3	2551.7	789.2	42.8	47.3	42.0	
11	53.9	808.6	715.1	159.4	448.0	1264.2	2954.7	2551.7	805.3	40.3	47.3	46.5	
12	53.4	815.2	668.1	312.7	515.4	1155.2	2999.3	2483.8	746.0	40.3	47.3	50.6	
13	56.7	755.0	510.3	175.7	553.3	1148.3	3024.0	2420.6	704.0	42.8	44.9	49.0	
14	112.1	704.0	399.0	93.3	455.0	1073.5	3034.0	2354.1	611.5	62.1	42.4	46.5	
15	160.4	644.4	462.5	179.8	343.2	1063.6	3004.2	2314.2	588.7	42.4	42.0	47.3	
16	102.0	500.2	596.3	99.2	235.8	1053.6	2959.7	2274.6	550.8	31.6	42.0	47.3	
17	57.8	470.0	684.7	53.4	365.3	1083.4	2915.7	2244.1	502.8	27.0	44.0	47.3	
18	53.4	438.6	698.5	43.2	173.0	1124.2	2853.7	2175.6	405.7	27.0	47.3	47.3	
19	53.4	460.0	698.5	39.5	314.5	1172.5	2834.7	2116.9	256.0	29.1	47.3	47.3	
20	58.3	467.5	695.7	51.2	470.0	1207.8	2815.6	2018.7	242.2	47.3	47.3	47.3	
21	111.1	460.0	782.8	57.8	460.0	1264.2	2787.0	1909.2	247.0	34.5	47.3	47.3	
22	162.5	422.1	868.1	60.0	450.3	1285.3	2741.8	1846.0	223.0	36.6	47.3	47.3	
23	195.9	408.0	901.2	60.0	457.5	1310.0	2701.0	1761.0	183.8	34.5	47.3	47.3	
24	147.8	299.8	881.4	61.4	467.5	1317.2	2669.3	1659.9	177.1	34.5	47.3	47.3	
25	80.0	462.5	888.0	58.3	535.6	1295.9	2551.7	1591.4	112.1	34.5	47.3	47.3	
26	65.6	553.3	815.2	53.9	681.9	1389.4	2501.9	1530.1	75.0	34.5	47.3	47.3	
27	79.2	586.2	701.3	54.5	687.4	1750.1	2461.2	1468.7	56.1	34.5	46.1	47.3	
28	138.4	566.0	704.0	54.5	737.2	1853.4	2411.7	1360.5	49.5	37.8	42.0	47.3	
29	207.5	566.0	746.0	46.9	740.0	1957.6	2354.1	1324.4	47.8	37.0		47.3	
30	274.2	525.5	761.0	49.0	891.3	2060.8	2309.7	1328.0	45.3	34.5		47.3	
31		528.0		57.2	1056.9		2278.9		42.4	34.5		47.3	
Total	2971.2	16751.4	20074.1	5903.0	13348.1	38883.9	83871.2	62648.4	17110.6	1125.3	1255.5	1416.7	265359.4 CMSDAY
Mean	99.0	540.4	669.1	190.4	430.6	1296.1	2705.5	2088.3	552.0	36.3	44.8	45.7	727.0 CMS
Max	274.2	815.2	901.2	731.7	1056.9	2060.8	3034.0	2551.7	1342.5	62.1	50.6	50.6	3034.0 CMS
Min	53.4	299.8	399.0	39.5	70.2	1053.6	2196.6	1324.4	42.4	27.0	34.5	42.0	27.0 CMS
Runoff	256.71	1447.32	1734.40	510.02	1153.28	3359.57	7246.47	5412.82	1478.36	97.23	108.48	122.40	22927.05 MCM

Momentary Peak 3044.10 CMS, at 16.23 M (MSL), at 23.00 Hours, on Oct 13, 1996

Runoff Yield 6.02 Liters/Second/Square KM, Momentary Peak Yield 25.222 Liters/Second/Square KM

WATER YEAR 1996

CHAO PHRAYA RIVER BASIN

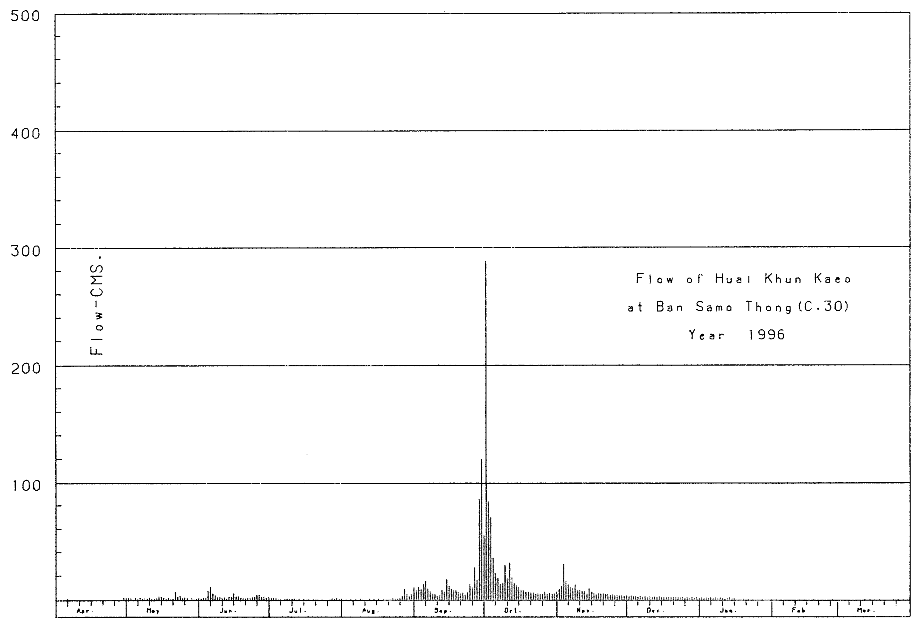
Huai Khun Kaeo at Ban Samo Thong, Uthai Thani (C.30)

Location	Lat. 15°-21′-04″ N., Long. 99°-32′-22″ E., on right bank infront of Wat Samo Thong School, Ban Samo Thong, 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	+11.750 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	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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 77 discharge measurements made in 1996.

Gage Height in Meter (A.), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.03	1.27	1.24	1.25	1.16	1.71	5.54	1.76	1.40	1.26	1.14	1.09	
2	1.02	1.22	1.25	1.28	1.15	1.80	3.47	1.84	1.40	1.26	1.14	1.09	
3	1.01	1.18	1.29	1.22	1.15	1.75	3.26	2.46	1.40	1.26	1.13	1.09	
4	1.06	1.25	1.63	1.20	1.14	1.91	2.58	2.02	1.39	1.26	1.12	1.09	
5	1.22	1.18	1.84	1.18	1.13	2.04	2.25	1.92	1.38	1.26	1.12	1.09	
6	1.09	1.25	1.55	1.16	1.13	1.77	2.13	1.79	1.38	1.26	1.12	1.09	
7	1.17	1.20	1.43	1.15	1.14	1.62	1.91	1.75	1.37	1.26	1.12	1.09	
8	1.10	1.21	1.33	1.22	1.17	1.54	1.98	1.92	1.36	1.25	1.11	1.09	
9	1.10	1.24	1.28	1.20	1.14	1.49	2.43	1.72	1.35	1.25	1.11	1.09	
10	1.06	1.28	1.26	1.21	1.14	1.41	2.11	1.69	1.34	1.25	1.10	1.09	
11	1.06	1.21	1.28	1.18	1.14	1.45	2.48	1.66	1.34	1.25	1.10	1.09	
12	1.05	1.17	1.24	1.17	1.20	1.68	2.12	1.62	1.34	1.25	1.10	1.09	
13	1.04	1.25	1.33	1.17	1.16	1.63	1.97	1.54	1.34	1.24	1.10	1.09	
14	1.03	1.36	1.38	1.16	1.16	2.09	1.86	1.74	1.34	1.24	1.10	1.09	
15	1.03	1.36	1.53	1.14	1.15	1.84	1.80	1.62	1.33	1.17	1.11	1.09	
16	1.03	1.23	1.40	1.13	1.19	1.77	1.73	1.53	1.32	1.17	1.11	1.09	
17	1.02	1.20	1.36	1.13	1.16	1.68	1.67	1.50	1.32	1.17	1.11	1.09	
18	1.02	1.23	1.32	1.16	1.16	1.71	1.63	1.55	1.32	1.16	1.11	1.09	
19	1.02	1.19	1.27	1.14	1.15	1.60	1.60	1.53	1.31	1.16	1.11	1.08	
20	1.02	1.16	1.25	1.15	1.15	1.55	1.61	1.52	1.31	1.15	1.10	1.08	
21	1.02	1.63	1.25	1.16	1.17	1.55	1.56	1.51	1.31	1.15	1.10	1.08	
22	1.01	1.35	1.26	1.12	1.22	1.49	1.54	1.50	1.30	1.15	1.10	1.08	
23	1.01	1.39	1.26	1.12	1.23	1.57	1.52	1.48	1.30	1.15	1.10	1.07	
24	1.01	1.26	1.35	1.12	1.17	1.90	1.51	1.47	1.29	1.15	1.10	1.07	
25	1.01	1.27	1.48	1.13	1.27	1.81	1.54	1.45	1.29	1.14	1.10	1.07	
26	1.05	1.22	1.44	1.15	1.40	2.37	1.61	1.44	1.28	1.14	1.10	1.08	
27	1.05	1.15	1.34	1.20	1.77	2.06	1.53	1.43	1.28	1.14	1.09	1.07	
28	1.05	1.22	1.34	1.22	1.50	3.50	1.53	1.42	1.28	1.14	1.09	1.16	
29	1.30	1.18	1.30	1.21	1.40	4.02	1.52	1.41	1.28	1.13		1.10	
30	1.22	1.15	1.29	1.22	1.49	2.99	1.52	1.41	1.28	1.13		1.08	
31		1.21		1.18	1.79		1.62		1.27	1.13		1.29	
Mean	1.06	1.25	1.36	1.18	1.24	1.91	2.04	1.64	1.33	1.20	1.11	1.09	
Max	1.30	1.63	1.84	1.28	1.79	4.02	5.54	2.46	1.40	1.26	1.14	1.29	5.54
Min	1.01	1.15	1.24	1.12	1.13	1.41	1.51	1.41	1.27	1.13	1.09	1.07	1.01

Annual Max Momentary Gage Height 7.07 M (A.), at 10.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 0.00 M (A.), River Bed 0.99 M (A.)
Left Bank Elevation 11.14 M (A.)
Right Bank Elevation 11.75 M (A.), Drainage Area 219 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	2.47	2.14	2.25	1.30	9.31	288.40	10.36	4.00	2.36	1.10	0.63	
2	0.14	1.92	2.25	2.58	1.20	11.20	84.15	12.12	4.00	2.36	1.10	0.63	
3	0.07	1.50	2.69	1.92	1.20	10.15	71.20	31.55	4.00	2.36	1.00	0.63	
4	0.42	2.25	7.77	1.70	1.10	13.75	36.65	16.54	3.88	2.36	0.90	0.63	
5	1.92	1.50	12.12	1.50	1.00	17.08	23.40	14.00	3.76	2.36	0.90	0.63	
6	0.63	2.25	6.35	1.30	1.00	10.57	19.63	10.99	3.76	2.36	0.90	0.63	
7	1.40	1.70	4.45	1.20	1.10	7.58	13.75	10.15	3.64	2.36	0.90	0.63	
8	0.70	1.81	3.16	1.92	1.40	6.18	15.50	14.00	3.52	2.25	0.80	0.63	
9	0.70	2.14	2.58	1.70	1.10	5.35	30.27	9.52	3.40	2.25	0.80	0.63	
10	0.42	2.58	2.36	1.81	1.10	4.15	19.01	8.91	3.28	2.25	0.70	0.63	
11	0.42	1.81	2.58	1.50	1.10	4.75	32.40	8.34	3.28	2.25	0.70	0.63	
12	0.35	1.40	2.14	1.40	1.70	8.72	19.32	7.58	3.28	2.25	0.70	0.63	
13	0.28	2.25	3.16	1.40	1.30	7.77	15.25	6.18	3.28	2.14	0.70	0.63	
14	0.21	3.52	3.76	1.30	1.30	18.43	12.58	9.94	3.28	2.14	0.70	0.63	
15	0.21	3.52	6.01	1.10	1.20	12.12	11.20	7.58	3.16	1.40	0.80	0.63	
16	0.21	2.03	4.00	1.00	1.60	10.57	9.73	6.01	3.04	1.40	0.80	0.63	
17	0.14	1.70	3.52	1.00	1.30	8.72	8.53	5.50	3.04	1.40	0.80	0.63	
18	0.14	2.03	3.04	1.30	1.30	9.31	7.77	6.35	3.04	1.30	0.80	0.63	
19	0.14	1.60	2.47	1.10	1.20	7.20	7.20	6.01	2.92	1.30	0.80	0.56	
20	0.14	1.30	2.25	1.20	1.20	6.35	7.39	5.84	2.92	1.20	0.70	0.56	
21	0.14	7.77	2.25	1.30	1.40	6.35	6.52	5.67	2.92	1.20	0.70	0.56	
22	0.07	3.40	2.36	0.90	1.92	5.35	6.18	5.50	2.80	1.20	0.70	0.56	
23	0.07	3.88	2.36	0.90	2.03	6.69	5.84	5.20	2.80	1.20	0.70	0.49	
24	0.07	2.36	3.40	0.90	1.40	13.50	5.67	5.05	2.69	1.20	0.70	0.49	
25	0.07	2.47	5.20	1.00	2.47	11.43	6.18	4.75	2.69	1.10	0.70	0.49	
26	0.35	1.92	4.60	1.20	4.00	27.80	7.39	4.60	2.58	1.10	0.70	0.56	
27	0.35	1.20	3.28	1.70	10.57	17.62	6.01	4.45	2.58	1.10	0.63	0.49	
28	0.35	1.92	3.28	1.92	5.50	86.00	6.01	4.30	2.58	1.10	0.63	1.30	
29	2.80	1.50	2.80	1.81	4.00	120.90	5.84	4.15	2.58	1.00		0.70	
30	1.92	1.20	2.69	1.92	5.35	55.82	5.84	4.15	2.58	1.00		0.56	
31		1.81		1.50	10.99		7.58		2.47	1.00		2.69	
Total	15.04	70.71	111.02	45.23	74.33	540.72	802.39	255.29	97.75	52.25	22.06	21.35	2108.14 CMSDAY
Mean	0.50	2.28	3.70	1.46	2.40	18.02	25.88	8.51	3.15	1.69	0.79	0.69	5.78 CMS
Max	2.80	7.77	12.12	2.58	10.99	120.90	288.40	31.55	4.00	2.36	1.10	2.69	288.40 CMS
Min	0.07	1.20	2.14	0.90	1.00	4.15	5.67	4.15	2.47	1.00	0.63	0.49	0.07 CMS
Runoff	1.299	6.109	9.592	3.908	6.422	46.718	69.327	22.057	8.446	4.514	1.906	1.845	182.143 MCM

Momentary Peak 592.50 CMS, at 7.07 M (A.), at 10.00 Hours, on Oct 1, 1996

Runoff Yield 26.37 Liters/Second/Square KM, Momentary Peak Yield 2705.479 Liters/Second/Square KM

WATER YEAR 1996

SAKAE KRANG RIVER BASIN

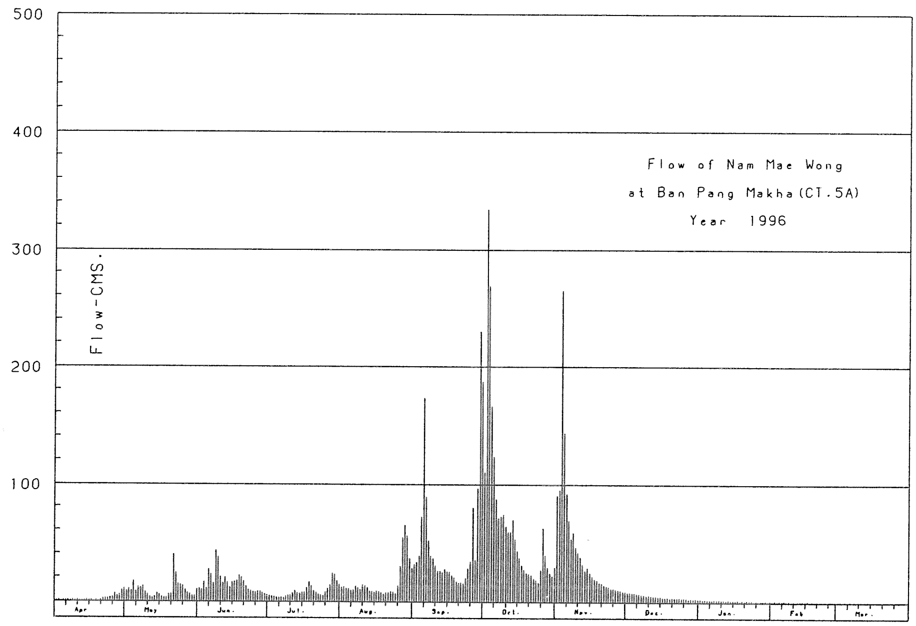
Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (CT.5A)

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	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	+4.600 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 good. Stage-discharge relation defined by 62 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	0.61	0.67	0.44	0.71	1.16	2.35	2.10	0.56	0.30	0.17	0.09	
2	0.20	0.65	0.63	0.43	0.71	1.20	3.97	2.17	0.55	0.30	0.17	0.09	
3	0.20	0.61	0.82	0.40	0.68	1.31	3.64	3.62	0.55	0.29	0.17	0.09	
4	0.20	0.84	0.68	0.40	0.66	1.85	2.94	2.72	0.53	0.29	0.16	0.09	
5	0.20	0.60	1.08	0.38	0.63	3.00	2.51	2.13	0.52	0.28	0.15	0.08	
6	0.20	0.70	0.98	0.37	0.62	2.10	2.07	1.80	0.50	0.27	0.14	0.08	
7	0.21	0.69	0.81	0.38	0.74	1.54	1.83	1.56	0.49	0.27	0.14	0.08	
8	0.20	0.72	1.39	0.42	0.68	1.30	1.86	1.64	0.47	0.26	0.14	0.08	
9	0.20	0.57	1.28	0.46	0.65	1.27	1.88	1.44	0.46	0.25	0.13	0.07	
10	0.20	0.47	0.93	0.45	0.76	1.14	1.73	1.35	0.46	0.25	0.13	0.07	
11	0.19	0.41	0.81	0.52	0.74	1.05	1.65	1.29	0.45	0.25	0.12	0.08	
12	0.18	0.37	0.92	0.62	0.70	1.06	1.65	1.16	0.44	0.25	0.12	0.10	
13	0.19	0.40	0.82	0.53	0.61	1.02	1.82	1.06	0.42	0.25	0.12	0.10	
14	0.21	0.53	0.70	0.53	0.58	1.09	1.55	1.10	0.42	0.24	0.12	0.09	
15	0.22	0.47	0.83	0.56	0.57	1.04	1.39	1.02	0.41	0.24	0.12	0.08	
16	0.19	0.39	0.83	0.55	0.60	1.03	1.27	0.94	0.40	0.21	0.11	0.07	
17	0.18	0.37	0.86	0.69	0.59	0.97	1.16	0.90	0.39	0.21	0.11	0.06	
18	0.18	0.38	0.97	0.84	0.54	0.92	1.07	0.86	0.38	0.21	0.11	0.06	
19	0.16	0.50	0.92	0.73	0.51	0.85	1.02	0.82	0.38	0.20	0.10	0.05	
20	0.21	0.49	0.84	0.60	0.54	0.81	0.99	0.80	0.38	0.20	0.10	0.04	
21	0.34	1.33	0.73	0.56	0.55	0.82	0.97	0.77	0.38	0.20	0.10	0.04	
22	0.33	1.02	0.64	0.50	0.60	0.81	0.91	0.74	0.38	0.20	0.10	0.04	
23	0.34	0.78	0.59	0.46	0.56	0.92	0.87	0.71	0.37	0.19	0.09	0.04	
24	0.36	0.77	0.58	0.46	0.53	1.09	0.83	0.68	0.36	0.19	0.09	0.04	
25	0.40	0.73	0.55	0.56	0.75	1.21	1.07	0.66	0.35	0.18	0.09	0.04	
26	0.51	0.64	0.58	0.66	1.14	1.97	1.71	0.64	0.34	0.18	0.09	0.04	
27	0.44	0.55	0.60	0.77	1.58	1.24	1.31	0.64	0.33	0.18	0.09	0.04	
28	0.47	0.49	0.53	1.01	1.74	2.18	1.11	0.61	0.33	0.17	0.09	0.07	
29	0.63	0.45	0.51	0.98	1.60	3.42	1.01	0.60	0.33	0.17		0.06	
30	0.66	0.43	0.46	0.86	1.27	3.11	0.95	0.58	0.33	0.17		0.08	
31		0.64		0.77	1.10		1.12		0.33	0.17		0.08	
Mean	0.28	0.60	0.78	0.58	0.78	1.42	1.62	1.24	0.42	0.23	0.12	0.07	
Max	0.66	1.33	1.39	1.01	1.74	3.42	3.97	3.62	0.56	0.30	0.17	0.10	3.97
Min	0.16	0.37	0.46	0.37	0.51	0.81	0.83	0.58	0.33	0.17	0.09	0.04	0.04

Annual Max Momentary Gage Height 4.29 M (AD), at 17.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.40 M (AD)
Left Bank Elevation 4.16 M (AD)
Right Bank Elevation 4.66 M (AD), Drainage Area 938 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.32	9.32	11.28	5.00	12.57	31.60	109.75	90.00	8.00	2.00	1.02	0.45	
2	1.25	10.62	9.97	4.75	12.57	33.50	334.55	95.43	7.75	2.00	1.02	0.45	
3	1.25	9.32	16.30	4.00	11.60	39.34	268.50	265.00	7.75	1.92	1.02	0.45	
4	1.25	17.10	11.60	4.00	10.95	72.20	166.60	143.20	7.25	1.92	0.95	0.45	
5	1.25	9.00	27.80	3.60	9.97	173.50	123.62	92.33	7.00	1.85	0.88	0.40	
6	1.25	12.25	23.10	3.40	9.65	90.00	87.75	68.90	6.50	1.78	0.80	0.40	
7	1.32	11.92	15.90	3.60	13.55	52.40	70.88	53.60	6.25	1.78	0.80	0.40	
8	1.25	12.90	43.66	4.50	11.60	38.80	72.86	58.56	5.75	1.70	0.80	0.40	
9	1.25	8.25	37.74	5.50	10.62	37.21	74.18	46.52	5.50	1.63	0.72	0.35	
10	1.25	5.75	20.85	5.25	14.20	30.65	64.35	41.50	5.50	1.63	0.72	0.35	
11	1.17	4.25	15.90	7.00	13.55	26.37	59.20	38.27	5.25	1.63	0.65	0.40	
12	1.10	3.40	20.40	9.65	12.25	26.85	59.20	31.60	5.00	1.63	0.65	0.50	
13	1.17	4.00	16.30	7.25	9.32	24.95	70.22	26.85	4.50	1.63	0.65	0.50	
14	1.32	7.25	12.25	7.25	8.50	28.28	53.00	28.75	4.50	1.55	0.65	0.45	
15	1.40	5.75	16.70	8.00	8.25	25.90	43.66	24.95	4.25	1.55	0.65	0.40	
16	1.17	3.80	16.70	7.75	9.00	25.42	37.21	21.30	4.00	1.32	0.58	0.35	
17	1.10	3.40	17.90	11.92	8.75	22.65	31.60	19.50	3.80	1.32	0.58	0.30	
18	1.10	3.60	22.65	17.10	7.50	20.40	27.33	17.90	3.60	1.32	0.58	0.30	
19	0.95	6.50	20.40	13.23	6.75	17.50	24.95	16.30	3.60	1.25	0.50	0.25	
20	1.32	6.25	17.10	9.00	7.50	15.90	23.55	15.50	3.60	1.25	0.50	0.20	
21	2.80	40.42	13.23	8.00	7.75	16.30	22.65	14.52	3.60	1.25	0.50	0.20	
22	2.60	24.95	10.30	6.50	9.00	15.90	19.95	13.55	3.60	1.25	0.50	0.20	
23	2.80	14.85	8.75	5.50	8.00	20.40	18.30	12.57	3.40	1.17	0.45	0.20	
24	3.20	14.52	8.50	5.50	7.25	28.28	16.70	11.60	3.20	1.17	0.45	0.20	
25	4.00	13.23	7.75	8.00	13.88	34.03	27.33	10.95	3.00	1.10	0.45	0.20	
26	6.75	10.30	8.50	10.95	30.65	80.40	63.05	10.30	2.80	1.10	0.45	0.20	
27	5.00	7.75	9.00	14.52	54.80	35.62	39.34	10.30	2.60	1.10	0.45	0.20	
28	5.75	6.25	7.25	24.47	65.00	96.20	29.22	9.32	2.60	1.02	0.45	0.35	
29	9.97	5.25	6.75	23.10	56.00	230.40	24.47	9.00	2.60	1.02		0.30	
30	10.95	4.75	5.50	17.90	37.21	187.11	21.75	8.50	2.60	1.02		0.40	
31		10.30		14.52	28.75		29.70		2.60	1.02		0.40	
Total	78.26	307.20	480.03	280.71	526.94	1578.06	2115.42	1306.57	141.95	44.88	18.42	10.60	6889.04 CMSDAY
Mean	2.61	9.91	16.00	9.06	17.00	52.60	68.24	43.55	4.58	1.45	0.66	0.34	18.87 CMS
Max	10.95	40.42	43.66	24.47	65.00	230.40	334.55	265.00	8.00	2.00	1.02	0.50	334.55 CMS
Min	0.95	3.40	5.50	3.40	6.75	15.90	16.70	8.50	2.60	1.02	0.45	0.20	0.20 CMS
Runoff	6.762	26.542	41.475	24.253	45.528	136.344	182.772	112.888	12.264	3.878	1.591	0.916	595.213 MCM

Momentary Peak 407.67 CMS, at 4.29 M (AD), at 17.00 Hours, on Oct 2, 1996

Runoff Yield 20.12 Liters/Second/Square KM, Momentary Peak Yield 434.616 Liters/Second/Square KM

WATER YEAR 1996

SAKAE KRANG RIVER BASIN

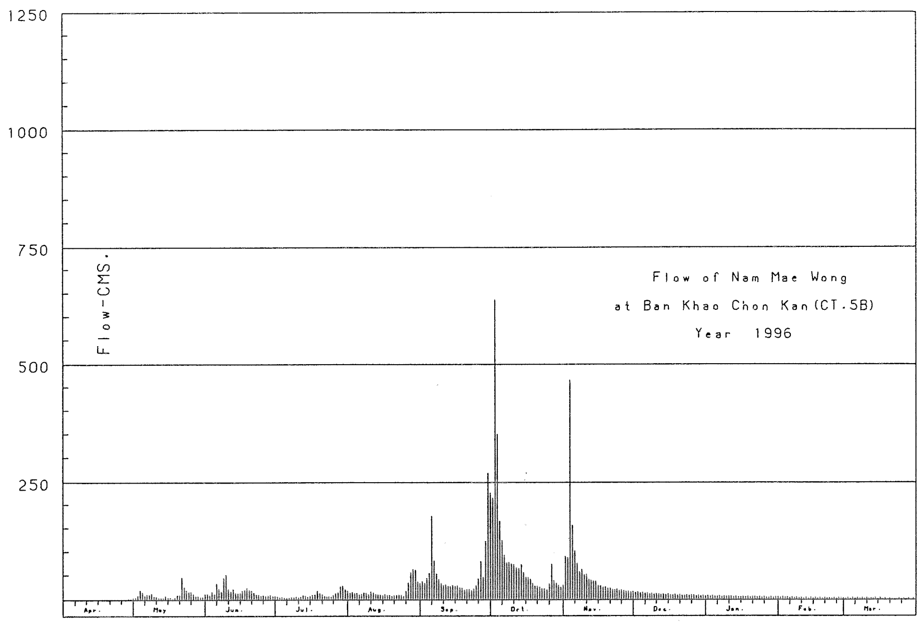
Nam Mae Wong at Ban Khao Chon Kan, Nakhon Sawan (CT.5B)

Location	Lat. 15°-54′-11″ N., Long. 99°-27′-37″ E., on right bank 8 kilometers upstream from CT.5A, Tambon Mae Lay, Amphoe Lat Yao, Nakhon Sawan.
Drainage Area	930 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 7.00 meters from the top staff gage.
Elevation	+13.173 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	1988 to date.
Rated by Float	-
Rated by Current Meter	1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 1996.

Gage Height in Meter ( ), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.77	5.15	5.41	5.19	5.54	6.13	8.33	7.08	5.57	5.31	5.18	5.09	
2	4.77	5.28	5.38	5.16	5.54	6.08	9.86	7.06	5.56	5.31	5.18	5.09	
3	4.76	5.71	5.55	5.14	5.51	6.26	8.98	9.36	5.54	5.30	5.18	5.09	
4	4.75	5.52	5.46	5.15	5.48	6.51	8.00	7.92	5.53	5.30	5.17	5.09	
5	4.75	5.35	6.05	5.13	5.43	8.08	7.58	7.25	5.52	5.30	5.17	5.08	
6	4.77	5.40	5.75	5.13	5.43	6.93	7.12	6.84	5.51	5.27	5.16	5.08	
7	4.83	5.41	5.62	5.13	5.56	6.49	6.89	6.56	5.48	5.26	5.16	5.08	
8	4.82	5.46	6.31	5.17	5.48	6.22	6.88	6.63	5.47	5.25	5.14	5.08	
9	4.85	5.29	6.41	5.19	5.44	6.05	6.85	6.44	5.46	5.25	5.14	5.09	
10	4.87	5.17	5.74	5.18	5.58	5.93	6.80	6.43	5.45	5.25	5.13	5.09	
11	4.86	5.13	5.63	5.18	5.51	5.96	6.69	6.24	5.45	5.24	5.12	5.09	
12	4.85	5.08	5.73	5.38	5.46	5.93	6.69	6.17	5.44	5.23	5.12	5.12	
13	4.85	5.11	5.53	5.28	5.42	5.88	6.82	6.16	5.42	5.23	5.12	5.10	
14	4.86	5.26	5.46	5.25	5.36	5.97	6.51	6.13	5.43	5.23	5.12	5.09	
15	4.89	5.15	5.53	5.33	5.37	5.93	6.35	5.96	5.42	5.23	5.11	5.08	
16	4.87	5.09	5.63	5.36	5.41	5.92	6.30	5.90	5.41	5.22	5.11	5.07	
17	4.86	5.08	5.71	5.42	5.37	5.85	6.26	5.87	5.41	5.22	5.11	5.07	
18	4.86	5.09	5.80	5.64	5.32	5.79	6.05	5.86	5.40	5.21	5.10	5.06	
19	4.85	5.39	5.72	5.51	5.29	5.73	5.95	5.82	5.39	5.21	5.10	5.06	
20	4.85	5.33	5.63	5.39	5.32	5.70	5.90	5.78	5.39	5.21	5.10	5.06	
21	4.85	6.33	5.51	5.32	5.40	5.72	5.85	5.75	5.37	5.20	5.10	5.04	
22	4.85	5.87	5.43	5.26	5.41	5.68	5.80	5.73	5.37	5.20	5.10	5.04	
23	4.85	5.65	5.37	5.23	5.35	5.74	5.76	5.72	5.37	5.20	5.10	5.04	
24	4.85	5.60	5.33	5.24	5.31	5.95	5.73	5.69	5.36	5.20	5.09	5.04	
25	4.90	5.57	5.30	5.33	5.65	6.24	6.04	5.67	5.35	5.19	5.09	5.04	
26	5.06	5.41	5.31	5.46	6.06	6.94	6.85	5.64	5.34	5.19	5.09	5.04	
27	4.95	5.31	5.35	5.55	6.53	6.34	6.16	5.63	5.34	5.19	5.09	5.04	
28	5.00	5.24	5.34	5.90	6.64	7.54	6.07	5.61	5.33	5.18	5.09	5.07	
29	5.06	5.18	5.29	5.91	6.63	8.63	5.93	5.60	5.32	5.18		5.06	
30	5.13	5.13	5.24	5.74	6.14	8.39	5.88	5.59	5.31	5.18		5.07	
31		5.46		5.62	6.02		5.94		5.31	5.18		5.08	
Mean	4.87	5.36	5.58	5.35	5.61	6.35	6.67	6.27	5.42	5.23	5.12	5.07	
Max	5.13	6.33	6.41	5.91	6.64	8.63	9.86	9.36	5.57	5.31	5.18	5.12	9.86
Min	4.75	5.08	5.24	5.13	5.29	5.68	5.73	5.59	5.31	5.18	5.09	5.04	4.75

Annual Max Momentary Gage Height 0.00 M ( ), at 0.00 Hours, on 0, 1996
Zero Gage at Bottom Elevation 0.00 M ( ), River Bed M ( )
Left Bank Elevation M ( )
Right Bank Elevation M ( ), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	4.8	10.8	5.6	15.2	38.4	216.1	91.3	16.2	8.2	5.4	3.6	
2	0.1	7.6	10.0	5.0	15.2	36.1	639.4	90.0	15.8	8.2	5.4	3.6	
3	0.1	21.1	15.5	4.6	14.1	44.7	353.0	465.9	15.2	8.0	5.4	3.6	
4	0.1	14.5	12.5	4.8	13.1	57.3	168.5	159.3	14.8	8.0	5.2	3.6	
5	0.1	9.2	34.8	4.4	11.5	179.2	126.6	103.1	14.5	8.0	5.2	3.4	
6	0.1	10.5	22.5	4.4	11.5	82.0	93.9	76.5	14.1	7.3	5.0	3.4	
7	0.3	10.8	17.9	4.4	15.8	56.3	79.5	60.0	13.1	7.1	5.0	3.4	
8	0.2	12.5	47.1	5.2	13.1	42.8	78.9	63.9	12.8	6.9	4.6	3.4	
9	0.4	7.8	52.0	5.6	11.8	34.8	77.1	53.6	12.5	6.9	4.6	3.6	
10	0.5	5.2	22.2	5.4	16.5	29.6	74.0	53.1	12.1	6.9	4.4	3.6	
11	0.5	4.4	18.3	5.4	14.1	30.9	67.4	43.7	12.1	6.7	4.2	3.6	
12	0.4	3.4	21.8	10.0	12.5	29.6	67.4	40.4	11.8	6.5	4.2	4.2	
13	0.4	4.0	14.8	7.6	11.2	27.5	75.2	39.9	11.2	6.5	4.2	3.8	
14	0.5	7.1	12.5	6.9	9.5	31.3	57.3	38.4	11.5	6.5	4.2	3.6	
15	0.6	4.8	14.8	8.7	9.7	29.6	49.1	30.9	11.2	6.5	4.0	3.4	
16	0.5	3.6	18.3	9.5	10.8	29.2	46.7	28.3	10.8	6.2	4.0	3.2	
17	0.5	3.4	21.1	11.2	9.7	26.3	44.7	27.1	10.8	6.2	4.0	3.2	
18	0.5	3.6	24.3	18.6	8.5	23.9	34.8	26.7	10.5	6.0	3.8	3.0	
19	0.4	10.2	21.5	14.1	7.8	21.8	30.5	25.1	10.2	6.0	3.8	3.0	
20	0.4	8.7	18.3	10.2	8.5	20.7	28.3	23.6	10.2	6.0	3.8	3.0	
21	0.4	48.1	14.1	8.5	10.5	21.5	26.3	22.5	9.7	5.8	3.8	2.7	
22	0.4	27.1	11.5	7.1	10.8	20.0	24.3	21.8	9.7	5.8	3.8	2.7	
23	0.4	19.0	9.7	6.5	9.2	22.2	22.9	21.5	9.7	5.8	3.8	2.7	
24	0.4	17.2	8.7	6.7	8.2	30.5	21.8	20.4	9.5	5.8	3.6	2.7	
25	0.7	16.2	8.0	8.7	19.0	43.7	34.4	19.7	9.2	5.6	3.6	2.7	
26	3.0	10.8	8.2	12.5	35.3	82.6	77.1	18.6	9.0	5.6	3.6	2.7	
27	1.3	8.2	9.2	15.5	58.4	48.6	39.9	18.3	9.0	5.6	3.6	2.7	
28	1.9	6.7	9.0	28.3	64.5	123.7	35.7	17.6	8.7	5.4	3.6	3.2	
29	3.0	5.4	7.8	28.7	63.9	270.5	29.6	17.2	8.5	5.4		3.0	
30	4.4	4.4	6.7	22.2	38.9	226.3	27.5	16.9	8.2	5.4		3.2	
31		12.5		17.9	33.5		30.0		8.2	5.4		3.4	
Total	22.6	332.8	523.9	314.2	592.3	1761.6	2777.9	1735.3	350.8	200.2	119.8	100.9	8832.3 CMSDAY
Mean	0.8	10.7	17.5	10.1	19.1	58.7	89.6	57.8	11.3	6.5	4.3	3.3	24.2 CMS
Max	4.4	48.1	52.0	28.7	64.5	270.5	639.4	465.9	16.2	8.2	5.4	4.2	639.4 CMS
Min	0.1	3.4	6.7	4.4	7.8	20.0	21.8	16.9	8.2	5.4	3.6	2.7	0.1 CMS
Runoff	1.95	28.75	45.26	27.15	51.17	152.20	240.01	149.93	30.31	17.30	10.35	8.72	763.11 MCM

Momentary Peak 0.00 CMS, at 0.00 M ( ), at 0.00 Hours, on 0, 1996
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

SAKAE KRANG RIVER BASIN

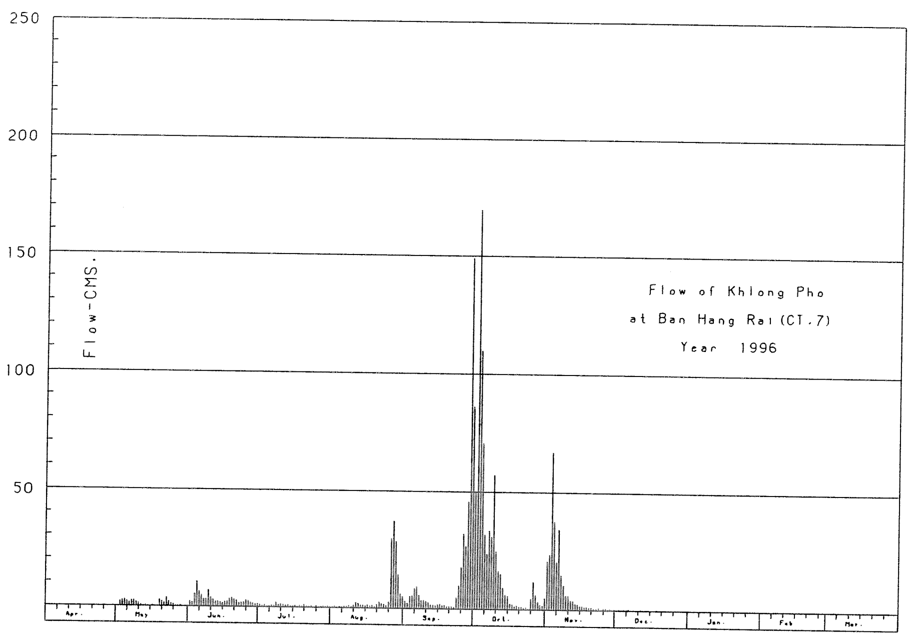
Khlong Pho at Ban Hang Rai, Nakhon Sawan (CT.7)

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	5-time daily readings at 06.00, 09.00, 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 1984, 1988 to date.
Rated by Float	-
Rated by Current Meter	1975 to 1984, 1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 66 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.67	1.00	0.77	0.69	1.09	2.52	1.91	0.67	5.18	0.38	0.32	
2	0.50	0.99	0.91	0.76	0.68	1.01	3.82	1.98	0.66	5.18	0.37	0.32	
3	0.49	1.02	1.33	0.74	0.67	1.28	3.32	2.79	0.65	5.17	0.37	0.54	
4	0.49	1.09	1.60	0.72	0.66	1.33	2.84	2.29	0.64	5.19	0.37	0.68	
5	0.49	1.01	1.41	0.71	0.66	1.52	2.18	1.91	0.63	5.20	0.37	0.50	
6	0.49	0.88	1.26	0.71	0.67	1.54	1.99	2.23	0.62	5.21	0.37	0.45	
7	0.49	1.03	1.13	0.78	0.76	1.35	2.21	1.74	0.61	5.22	0.36	0.41	
8	0.49	1.01	1.09	0.93	0.75	1.12	2.16	1.60	0.60	5.23	0.36	0.40	
9	0.48	0.95	1.44	0.84	0.73	1.13	2.64	1.35	0.59	5.34	0.36	0.37	
10	0.48	0.84	1.17	0.83	0.81	1.12	2.01	1.35	0.58	5.55	0.35	0.35	
11	0.48	0.76	1.08	0.81	0.98	1.02	1.79	1.20	0.58	5.17	0.35	0.34	
12	0.48	0.70	0.99	0.79	0.96	0.91	1.76	1.15	0.57	5.31	0.35	0.34	
13	0.48	0.68	0.97	0.77	0.87	0.87	1.55	1.05	0.57	5.28	0.34	0.34	
14	0.48	0.65	0.97	0.74	0.81	0.88	1.37	0.98	0.56	5.27	0.34	0.34	
15	0.48	0.65	0.93	0.71	0.82	0.94	1.33	0.93	0.55	5.25	0.34	0.33	
16	0.47	0.64	0.95	0.69	0.83	0.94	1.03	0.89	0.55	5.16	0.34	0.32	
17	0.47	0.62	1.01	0.67	0.82	0.90	0.95	0.87	0.54	5.39	0.34	0.31	
18	0.47	0.60	1.12	0.72	0.81	0.86	0.89	0.83	0.54	5.10	0.33	0.31	
19	0.47	1.09	1.19	0.77	0.77	0.82	0.88	0.83	0.53	5.13	0.33	0.31	
20	0.47	0.95	1.09	0.81	0.86	0.78	0.85	0.80	0.53	5.19	0.33	0.30	
21	0.48	0.86	1.03	0.75	1.05	0.78	0.80	0.77	0.52	5.20	0.33	0.29	
22	0.48	1.19	0.94	0.72	0.97	0.78	0.78	0.76	0.52	5.24	0.33	0.29	
23	0.46	0.95	0.91	0.69	0.90	1.28	0.75	0.74	0.51	5.25	0.33	0.29	
24	0.46	0.87	0.98	0.68	0.85	1.57	0.73	0.73	0.51	5.25	0.33	0.28	
25	0.46	0.77	1.05	0.67	1.07	1.84	1.22	0.72	0.50	5.28	0.33	0.28	
26	0.46	0.71	1.04	0.66	2.13	2.18	1.65	0.71	0.49	5.25	0.33	0.28	
27	0.48	0.69	0.95	0.70	2.29	2.07	1.39	0.69	0.48	5.22	0.32	0.27	
28	0.49	0.66	0.87	0.69	2.11	2.45	1.14	0.68	0.48	5.21	0.32	0.29	
29	0.60	0.63	0.85	0.69	1.73	3.67	0.95	0.68	0.48	5.18		0.30	
30	0.75	0.61	0.83	0.69	1.39	3.05	0.93	0.68	0.48	5.42		0.31	
31		0.59		0.69	1.27		1.26		0.48	5.40		0.57	
Mean	0.49	0.82	1.07	0.74	1.01	1.37	1.60	1.19	0.56	5.25	0.35	0.36	
Max	0.75	1.19	1.60	0.93	2.29	3.67	3.82	2.79	0.67	5.55	0.38	0.68	5.55
Min	0.46	0.59	0.83	0.66	0.66	0.78	0.73	0.68	0.48	5.10	0.32	0.27	0.27

Annual Max Momentary Gage Height 2.96 M (A.D), at 18.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.41 M (A.D)
Left Bank Elevation 4.14 M (A.D)
Right Bank Elevation 4.45 M (A.D), Drainage Area 457 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.44	2.25	0.78	0.48	2.93	50.00	20.40	0.44	0.07	0.00	0.00	
2	0.10	2.18	1.58	0.74	0.46	2.32	169.82	23.20	0.42	0.07	0.00	0.00	
3	0.09	2.40	5.49	0.66	0.44	4.88	156.04	67.14	0.40	0.06	0.00	0.18	
4	0.09	2.93	10.50	0.58	0.42	5.49	70.60	37.30	0.38	0.06	0.00	0.46	
5	0.09	2.32	6.57	0.54	0.42	8.58	31.86	20.40	0.36	0.05	0.00	0.10	
6	0.09	1.38	4.66	0.54	0.44	9.06	23.60	34.30	0.34	0.04	0.00	0.05	
7	0.09	2.47	3.30	0.82	0.74	5.75	33.30	14.48	0.32	0.04	0.00	0.01	
8	0.09	2.32	2.93	1.73	0.70	3.20	30.92	10.50	0.30	0.03	0.00	0.00	
9	0.08	1.88	7.08	1.14	0.62	3.30	57.36	5.75	0.28	0.03	0.00	0.00	
10	0.08	1.14	3.70	1.08	0.96	3.20	24.41	5.75	0.26	0.03	0.00	0.00	
11	0.08	0.74	2.85	0.96	2.10	2.40	16.08	4.00	0.26	0.02	0.00	0.00	
12	0.08	0.50	2.18	0.86	1.95	1.58	15.12	3.50	0.24	0.02	0.00	0.00	
13	0.08	0.46	2.03	0.78	1.32	1.32	9.30	2.62	0.24	0.02	0.00	0.00	
14	0.08	0.40	2.03	0.66	0.96	1.38	6.01	2.10	0.22	0.01	0.00	0.00	
15	0.08	0.40	1.73	0.54	1.02	1.80	5.49	1.73	0.20	0.01	0.00	0.00	
16	0.07	0.38	1.88	0.48	1.08	1.80	2.47	1.44	0.20	0.00	0.00	0.00	
17	0.07	0.34	2.32	0.44	1.02	1.50	1.88	1.32	0.18	0.00	0.00	0.00	
18	0.07	0.30	3.20	0.58	0.96	1.26	1.44	1.08	0.18	0.00	0.00	0.00	
19	0.07	2.93	3.90	0.78	0.78	1.02	1.38	1.08	0.16	0.00	0.00	0.00	
20	0.07	1.88	2.93	0.96	1.26	0.82	1.20	0.90	0.16	0.00	0.00	0.00	
21	0.08	1.26	2.47	0.70	2.62	0.82	0.90	0.78	0.14	0.00	0.00	0.00	
22	0.08	3.90	1.80	0.58	2.03	0.82	0.82	0.74	0.14	0.00	0.00	0.00	
23	0.06	1.88	1.58	0.48	1.50	4.88	0.70	0.66	0.12	0.00	0.00	0.00	
24	0.06	1.32	1.26	0.46	1.20	9.78	0.62	0.62	0.12	0.00	0.00	0.00	
25	0.06	0.78	2.62	0.44	2.78	17.84	4.22	0.58	0.10	0.00	0.00	0.00	
26	0.06	0.54	2.55	0.42	29.51	31.86	11.85	0.54	0.09	0.00	0.00	0.00	
27	0.08	0.48	1.88	0.50	37.30	26.87	6.27	0.48	0.08	0.00	0.00	0.00	
28	0.09	0.42	1.32	0.48	28.57	45.90	3.40	0.46	0.08	0.00	0.00	0.00	
29	0.30	0.36	1.20	0.48	14.16	149.46	1.88	0.46	0.08	0.00		0.00	
30	0.70	0.32	1.08	0.48	6.27	86.05	1.73	0.46	0.08	0.00		0.00	
31		0.28		0.48	4.77		4.66		0.08	0.00		0.24	
Total	3.22	39.33	90.87	21.15	148.84	437.87	745.33	264.77	6.65	0.56	0.00	1.04	1759.63 CMSDAY
Mean	0.11	1.27	3.03	0.68	4.80	14.60	24.04	8.83	0.21	0.02	0.00	0.03	4.82 CMS
Max	0.70	3.90	10.50	1.73	37.30	149.46	169.82	67.14	0.44	0.07	0.00	0.46	169.82 CMS
Min	0.06	0.28	1.08	0.42	0.42	0.82	0.62	0.46	0.08	0.00	0.00	0.00	0.00 CMS
Runoff	0.278	3.398	7.851	1.827	12.860	37.832	64.397	22.876	0.575	0.048	0.000	0.090	152.032 MCM

Momentary Peak 79.12 CMS, at 2.96 M (A.D), at 18.00 Hours, on Sep 15, 1996

Runoff Yield 10.55 Liters/Second/Square KM, Momentary Peak Yield 173.129 Liters/Second/Square KM

WATER YEAR 1996

SAKAE KRANG RIVER BASIN

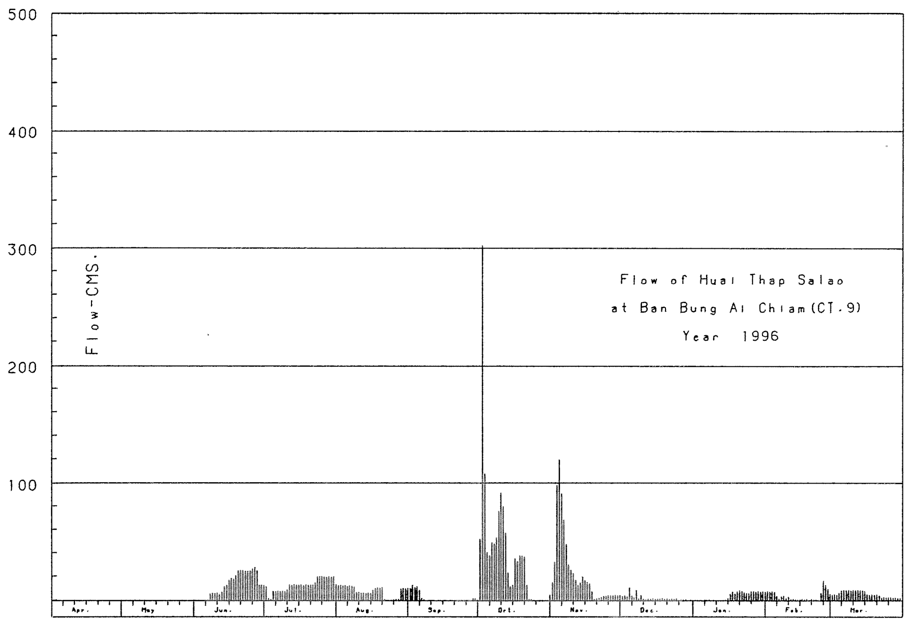
Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani (CT.9)

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	+123.45 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 100 meters from the gage observer's house.
Elevation	+129.00 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
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	Record good. Flow regulared by Rabum Dam above gage site. Stage-discharge relation defined by 84 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.33	124.12	124.14	125.09	125.17	125.05	126.40	125.30	124.58	124.25	124.88	124.69	
2	124.24	124.11	124.13	124.38	125.16	125.18	128.20	125.91	124.59	124.25	124.88	124.68	
3	124.20	124.12	124.13	124.23	125.16	125.10	126.94	126.86	124.58	124.24	124.88	124.68	
4	124.18	124.13	124.17	124.90	125.15	125.12	126.15	127.03	125.09	124.23	124.88	124.79	
5	124.17	124.15	124.20	124.90	125.15	124.96	126.09	126.81	124.61	124.23	124.61	124.95	
6	124.15	124.13	124.28	124.90	125.15	124.38	126.34	126.61	124.43	124.23	124.34	124.95	
7	124.14	124.19	124.74	124.90	125.15	124.28	126.33	126.32	124.95	124.23	124.57	124.95	
8	124.13	124.21	124.77	124.89	125.09	124.22	126.41	125.84	124.39	124.22	124.57	124.95	
9	124.13	124.17	124.78	124.89	124.85	124.19	126.69	125.70	124.61	124.21	124.39	124.95	
10	124.13	124.14	124.78	124.95	124.82	124.17	126.81	125.58	124.34	124.23	124.54	124.96	
11	124.13	124.12	124.78	125.18	124.81	124.15	126.72	125.38	124.33	124.19	124.33	124.96	
12	124.13	124.11	124.85	125.18	124.79	124.15	126.48	125.17	124.34	124.16	124.32	124.96	
13	124.12	124.11	125.11	125.19	124.79	124.13	125.62	125.28	124.35	124.16	124.31	124.95	
14	124.12	124.10	125.19	125.19	124.79	124.12	125.13	125.47	124.36	124.16	124.32	124.95	
15	124.12	124.10	125.38	125.19	124.80	124.11	125.17	125.36	124.36	124.42	124.32	124.89	
16	124.11	124.10	125.42	125.19	124.95	124.11	126.00	125.28	124.36	124.73	124.31	124.68	
17	124.11	124.09	125.41	125.18	125.06	124.12	125.93	125.25	124.36	124.85	124.31	124.68	
18	124.11	124.10	125.51	125.19	125.06	124.11	126.09	124.85	124.36	124.75	124.31	124.67	
19	124.11	124.19	125.69	125.19	125.07	124.10	126.07	124.33	124.35	124.86	124.31	124.67	
20	124.11	124.14	125.68	125.18	125.07	124.12	126.06	124.36	124.35	124.93	124.31	124.67	
21	124.11	124.20	125.67	125.18	124.33	124.16	125.20	124.45	124.34	124.91	124.31	124.62	
22	124.11	124.22	125.67	125.29	124.26	124.12	124.34	124.51	124.35	124.84	124.31	124.48	
23	124.11	124.17	125.65	125.49	124.21	124.16	124.24	124.56	124.34	124.76	124.31	124.48	
24	124.11	124.13	125.68	125.48	124.19	124.14	124.21	124.60	124.33	124.79	124.81	124.48	
25	124.11	124.12	125.72	125.48	124.28	124.13	124.18	124.61	124.31	124.87	125.34	124.46	
26	124.11	124.11	125.77	125.48	124.30	124.23	124.19	124.61	124.31	124.88	125.18	124.46	
27	124.11	124.10	125.69	125.48	124.35	124.15	124.12	124.62	124.29	124.88	125.02	124.45	
28	124.11	124.10	125.19	125.48	125.03	124.42	124.10	124.63	124.28	124.88	124.71	124.44	
29	124.12	124.10	125.18	125.48	125.04	124.34	124.10	124.63	124.28	124.87		124.44	
30	124.12	124.10	125.17	125.48	125.04	124.23	124.08	124.61	124.27	124.87		124.39	
31		124.22		125.19	125.04		124.64		124.26	124.87		124.21	
Mean	124.14	124.14	125.08	125.14	124.84	124.33	125.58	125.28	124.42	124.55	124.56	124.69	
Max	124.33	124.22	125.77	125.49	125.17	125.18	128.20	127.03	125.09	124.93	125.34	124.96	128.20
Min	124.11	124.09	124.13	124.23	124.19	124.10	124.08	124.33	124.26	124.16	124.31	124.21	124.08

Annual Max Momentary Gage Height 128.31 M (MSL), at 24.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 123.45 M (MSL), River Bed 123.92 M (MSL)
Left Bank Elevation 127.55 M (MSL)
Right Bank Elevation 127.54 M (MSL), Drainage Area 522 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.27	0.26	0.32	11.32	12.90	10.60	52.70	15.80	3.78	0.75	7.70	5.13	
2	0.70	0.23	0.29	1.72	12.70	13.10	303.00	32.53	3.89	0.75	7.70	5.00	
3	0.50	0.26	0.29	0.65	12.70	11.50	108.70	98.30	3.78	0.70	7.70	5.00	
4	0.44	0.29	0.41	8.00	12.50	11.90	40.95	120.73	11.32	0.65	7.70	6.37	
5	0.41	0.35	0.50	8.00	12.50	9.02	38.65	91.80	4.13	0.65	4.13	8.85	
6	0.35	0.29	0.90	8.00	12.50	1.72	49.46	68.71	2.20	0.65	1.36	8.85	
7	0.32	0.47	5.75	8.00	12.50	0.90	48.92	48.38	8.85	0.65	3.67	8.85	
8	0.29	0.55	6.12	7.85	11.32	0.60	53.38	30.34	1.81	0.60	3.67	8.85	
9	0.29	0.41	6.25	7.85	7.25	0.47	76.79	26.30	4.13	0.55	1.81	8.85	
10	0.29	0.32	6.25	8.85	6.80	0.41	91.80	22.98	1.36	0.65	3.34	9.02	
11	0.29	0.26	6.25	13.10	6.65	0.35	80.34	17.80	1.27	0.47	1.27	9.02	
12	0.29	0.23	7.25	13.10	6.37	0.35	58.14	12.90	1.36	0.38	1.18	9.02	
13	0.26	0.23	11.70	13.30	6.37	0.29	24.06	15.34	1.45	0.38	1.09	8.85	
14	0.26	0.20	13.30	13.30	6.37	0.26	12.10	20.12	1.54	0.38	1.18	8.85	
15	0.26	0.20	17.80	13.30	6.50	0.23	12.90	17.30	1.54	2.10	1.18	7.85	
16	0.23	0.20	18.82	13.30	8.85	0.23	35.50	15.34	1.54	5.63	1.09	5.00	
17	0.23	0.16	18.56	13.10	10.78	0.26	33.19	14.65	1.54	7.25	1.09	5.00	
18	0.23	0.20	21.16	13.30	10.78	0.23	38.65	7.25	1.54	5.87	1.09	4.87	
19	0.23	0.47	26.02	13.30	10.96	0.20	37.95	1.27	1.45	7.40	1.09	4.87	
20	0.23	0.32	25.74	13.10	10.96	0.26	37.60	1.54	1.45	8.51	1.09	4.87	
21	0.23	0.50	25.46	13.10	1.27	0.38	13.50	2.40	1.36	8.17	1.09	4.25	
22	0.23	0.60	25.46	15.57	0.80	0.26	1.36	3.01	1.45	7.10	1.09	2.70	
23	0.23	0.41	24.90	20.64	0.55	0.38	0.70	3.56	1.36	6.00	1.09	2.70	
24	0.23	0.29	25.74	20.38	0.47	0.32	0.55	4.00	1.27	6.37	6.65	2.70	
25	0.23	0.26	26.86	20.38	0.90	0.29	0.44	4.13	1.09	7.55	16.80	2.50	
26	0.23	0.23	28.26	20.38	1.00	0.65	0.47	4.13	1.09	7.70	13.10	2.50	
27	0.23	0.20	26.02	20.38	1.45	0.35	0.26	4.25	0.95	7.70	10.06	2.40	
28	0.23	0.20	13.30	20.38	10.24	2.10	0.20	4.37	0.90	7.70	5.37	2.30	
29	0.26	0.20	13.10	20.38	10.42	1.36	0.20	4.37	0.90	7.55		2.30	
30	0.26	0.20	12.90	20.38	10.42	0.65	0.12	4.13	0.85	7.55		1.81	
31		0.60		13.30	10.42		4.50		0.80	7.55		0.55	
Total	9.73	9.59	415.68	407.71	246.20	69.62	1257.08	717.73	71.95	125.91	115.38	169.68	3616.26 CMSDAY
Mean	0.32	0.31	13.86	13.15	7.94	2.32	40.55	23.92	2.32	4.06	4.12	5.47	9.91 CMS
Max	1.27	0.60	28.26	20.64	12.90	13.10	303.00	120.73	11.32	8.51	16.80	9.02	303.00 CMS
Min	0.23	0.16	0.29	0.65	0.47	0.20	0.12	1.27	0.80	0.38	1.09	0.55	0.12 CMS
Runoff	0.841	0.829	35.915	35.226	21.272	6.015	108.612	62.012	6.216	10.879	9.969	14.660	312.445 MCM

Momentary Peak 322.80 CMS, at 128.31 M (MSL), at 24.00 Hours, on Oct 2, 1996

Runoff Yield 18.98 Liters/Second/Square KM, Momentary Peak Yield 618.391 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

Pasak River at Kaeng Khoi, Saraburi (S.2)

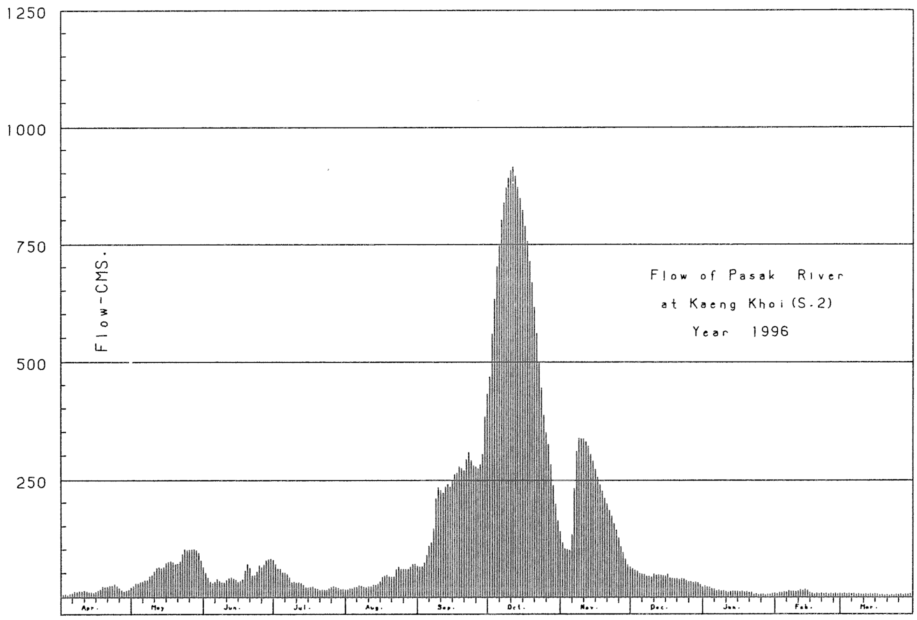
Location — Lat. 14°-35′-32″ N., Long. 101°-00′-23″ E., on left bank about 100 meters downstream from Kaeng Khoi Water Supply, Amphoe Kaeng Khoi, Saraburi.

Drainage Area	14,522 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+6.11 m.(M.S.L.)
Bench Mark	B.M._H.D.
Location	On left bank near the automatic gage building.
Elevation	+20.130 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	1959 - 1962, 1965 - 1966, 1993 to date.
Rated by Float	-
Rated by Current Meter	1959 - 1962, 1965 - 1966, 1993 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 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.91	7.53	8.13	8.40	7.28	8.32	12.23	8.96	8.28	7.52	7.01	6.99	
2	6.89	7.63	7.90	8.27	7.33	8.35	13.00	8.83	8.20	7.49	7.04	6.99	
3	6.86	7.67	7.74	8.25	7.37	8.44	13.55	8.79	8.19	7.43	7.07	6.99	
4	6.92	7.70	7.64	8.14	7.42	8.66	14.06	8.79	8.08	7.37	7.09	6.98	
5	7.02	7.75	7.74	8.11	7.47	8.89	14.39	9.17	8.09	7.30	7.12	6.98	
6	7.10	7.78	7.83	8.08	7.53	8.99	14.77	10.14	8.05	7.22	7.16	6.97	
7	7.12	7.81	7.77	7.91	7.54	9.29	15.02	10.87	7.99	7.22	7.18	6.96	
8	7.13	7.95	7.68	7.72	7.45	9.94	15.26	11.11	7.97	7.20	7.12	6.95	
9	7.16	8.03	7.70	7.72	7.45	10.16	15.40	11.11	7.95	7.19	7.15	6.95	
10	7.17	8.15	7.79	7.70	7.47	10.10	15.52	11.10	8.06	7.18	7.20	6.94	
11	7.15	8.30	7.89	7.69	7.50	10.06	15.57	11.05	8.04	7.16	7.25	6.94	
12	7.09	8.32	7.90	7.69	7.57	10.18	15.44	10.96	8.02	7.15	7.24	6.94	
13	7.05	8.26	7.88	7.56	7.59	10.22	15.26	10.81	8.04	7.15	7.27	6.97	
14	7.05	8.32	7.81	7.44	7.62	10.18	15.10	10.67	7.99	7.16	7.23	6.96	
15	7.08	8.42	7.73	7.38	7.76	10.30	14.91	10.52	8.00	7.14	7.04	6.95	
16	7.18	8.45	7.75	7.46	7.92	10.42	14.68	10.36	8.06	7.14	6.99	6.92	
17	7.30	8.49	7.85	7.47	8.00	10.44	14.44	10.22	7.92	7.14	6.98	6.89	
18	7.47	8.44	8.19	7.38	8.02	10.57	14.14	10.09	7.87	7.13	6.99	6.89	
19	7.47	8.41	8.41	7.30	7.97	10.53	13.81	9.95	7.89	7.11	6.99	6.88	
20	7.48	8.40	8.28	7.25	7.93	10.50	13.43	9.82	7.87	7.10	7.01	6.87	
21	7.51	8.48	8.01	7.25	7.96	10.70	13.00	9.69	7.86	7.07	7.00	6.87	
22	7.54	8.68	8.00	7.27	8.23	10.85	12.49	9.56	7.87	6.97	6.99	6.87	
23	7.59	8.79	8.17	7.22	8.34	10.69	12.04	9.41	7.87	6.95	6.99	6.88	
24	7.51	8.78	8.36	7.35	8.24	10.58	11.55	9.26	7.79	6.93	6.99	6.89	
25	7.34	8.78	8.32	7.46	8.26	10.57	11.22	9.10	7.76	6.94	6.99	6.91	
26	7.20	8.79	8.40	7.49	8.24	10.52	11.00	8.88	7.73	6.93	6.99	6.92	
27	7.14	8.81	8.50	7.47	8.26	10.60	10.60	8.71	7.72	6.89	6.99	6.90	
28	7.17	8.76	8.54	7.35	8.32	10.81	10.21	8.55	7.71	6.91	6.99	6.93	
29	7.26	8.71	8.54	7.31	8.41	11.52	9.81	8.38	7.71	6.95		6.96	
30	7.38	8.51	8.52	7.28	8.41	11.93	9.47	8.32	7.58	6.98		6.95	
31		8.30		7.25	8.36		9.23		7.48	6.99		7.06	
Mean	7.21	8.30	8.03	7.60	7.85	10.11	13.25	9.77	7.92	7.13	7.07	6.94	
Max	7.59	8.81	8.54	8.40	8.41	11.93	15.57	11.11	8.28	7.52	7.27	7.06	15.57
Min	6.86	7.53	7.64	7.22	7.28	8.32	9.23	8.32	7.48	6.89	6.98	6.87	6.86

Annual Max Momentary Gage Height 15.61 M (MSL), at 1.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation 6.11 M (MSL), River Bed 4.67 M (MSL)
Left Bank Elevation 21.62 M (MSL)
Right Bank Elevation 20.79 M (MSL), Drainage Area 14522 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.750	25.200	53.800	71.000	17.400	65.400	468.600	116.400	62.800	24.800	9.300	8.750	
2	6.250	29.200	42.000	62.200	18.900	67.500	561.667	105.400	58.000	23.700	10.200	8.750	
3	5.500	30.800	34.000	61.000	20.100	74.200	633.900	102.200	57.400	21.900	11.100	8.750	
4	7.000	32.000	29.600	54.400	21.600	91.800	704.400	102.200	51.000	20.100	11.700	8.500	
5	9.600	34.500	34.000	52.600	23.100	110.200	750.600	135.300	51.500	18.000	12.600	8.500	
6	12.000	36.000	38.500	51.000	25.200	119.100	803.800	232.400	49.500	15.600	13.800	8.250	
7	12.600	37.500	35.500	42.500	25.600	147.000	838.800	312.700	46.500	15.600	14.400	8.000	
8	12.900	44.500	31.200	33.000	22.500	212.000	872.400	339.100	45.500	15.000	12.600	7.750	
9	13.800	48.500	32.000	33.000	22.500	234.600	892.000	339.100	44.500	14.700	13.500	7.750	
10	14.100	55.000	36.500	32.000	23.100	228.000	908.800	338.000	50.000	14.400	15.000	7.500	
11	13.500	64.000	41.500	31.600	24.000	224.000	915.800	332.500	49.000	13.800	16.500	7.500	
12	11.700	65.400	42.000	31.600	26.800	236.800	897.600	322.600	48.000	13.500	16.200	7.500	
13	10.500	61.600	41.000	26.400	27.600	241.200	872.400	306.100	49.000	13.500	17.100	8.250	
14	10.500	65.400	37.500	22.200	28.800	236.800	850.000	290.700	46.500	13.800	15.900	8.000	
15	11.400	72.600	33.500	20.400	35.000	250.000	823.400	274.200	47.000	13.200	10.200	7.750	
16	14.400	75.000	34.500	22.800	43.000	263.200	791.200	256.600	50.000	13.200	8.750	7.000	
17	18.000	78.200	39.500	23.100	47.000	265.400	757.600	241.200	43.000	13.200	8.500	6.250	
18	23.100	74.200	57.400	20.400	48.000	279.700	715.600	227.000	40.500	12.900	8.750	6.250	
19	23.100	71.800	71.800	18.000	45.500	275.300	669.400	213.000	41.500	12.300	8.750	6.000	
20	23.400	71.000	62.800	16.500	43.500	272.000	617.820	200.000	40.500	12.000	9.300	5.750	
21	24.400	77.400	47.500	16.500	45.000	294.000	561.667	187.000	40.000	11.100	9.000	5.750	
22	25.600	93.400	47.000	17.100	59.800	310.500	499.800	174.000	40.500	8.250	8.750	5.750	
23	27.600	102.200	56.200	15.600	66.800	292.900	445.800	159.000	40.500	7.750	8.750	6.000	
24	24.400	101.400	68.200	19.500	60.400	280.800	389.000	144.000	36.500	7.250	8.750	6.250	
25	19.200	101.400	65.400	22.800	61.600	279.700	351.286	129.000	35.000	7.500	8.750	6.750	
26	15.000	102.200	71.000	23.700	60.400	274.200	327.000	109.400	33.500	7.250	8.750	7.000	
27	13.200	103.800	79.000	23.100	61.600	283.000	283.000	95.800	33.000	6.250	8.750	6.500	
28	14.100	99.800	82.200	19.500	65.400	306.100	240.100	83.000	32.500	6.750	8.750	7.250	
29	16.800	95.800	82.200	18.300	71.800	385.571	199.000	69.600	32.500	7.750		8.000	
30	20.400	79.800	80.600	17.400	71.800	432.600	165.000	65.400	27.200	8.500		7.750	
31		64.000		16.500	68.200		141.000		23.400	8.750		10.800	
Total	460.800	*******	*******	935.700	*******	*******	*******	*******	*******	402.300	314.400	230.550	******** CMSDAY
Mean	15.360	67.535	50.263	30.184	41.355	234.452	611.240	200.097	43.429	12.977	11.229	7.437	111.119 CMS
Max	27.600	103.800	82.200	71.000	71.800	432.600	915.800	339.100	62.800	24.800	17.100	10.800	915.800 CMS
Min	5.500	25.200	29.600	15.600	17.400	65.400	141.000	65.400	23.400	6.250	8.500	5.750	5.500 CMS
Runoff	39.813	180.887	130.283	80.844	110.765	607.701	*******	518.651	116.320	34.759	27.164	19.920	3504.251 MCM

Momentary Peak 921.40 CMS, at 15.61 M (MSL), at 1.00 Hours, on Oct 11, 1996
Runoff Yield 7.65 Liters/Second/Square KM, Momentary Peak Yield 63.449 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

Pasak River at Ban Tan Dieo, Phetchabun (S.3)

Location — Lat. 16°46′55″ N., Long. 101°14′57″ E., on left bank near the bridge of Samakkhichai-Nonthakit Road , Ban Tan Dieo, Amphoe Lomsak, Phetchabon.

Drainage Area — 1,047 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 at the staff gage.

Elevation — +7.813 m.(A.D.)

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

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

Period of Available Gage Records — 1950 to date.

Rating Operation

Period of Rating — 1996 to date.

Rated by Float — -

Rated by Current Meter — 1996 to date.

Stability of Channel Regimes — Fairly stable.

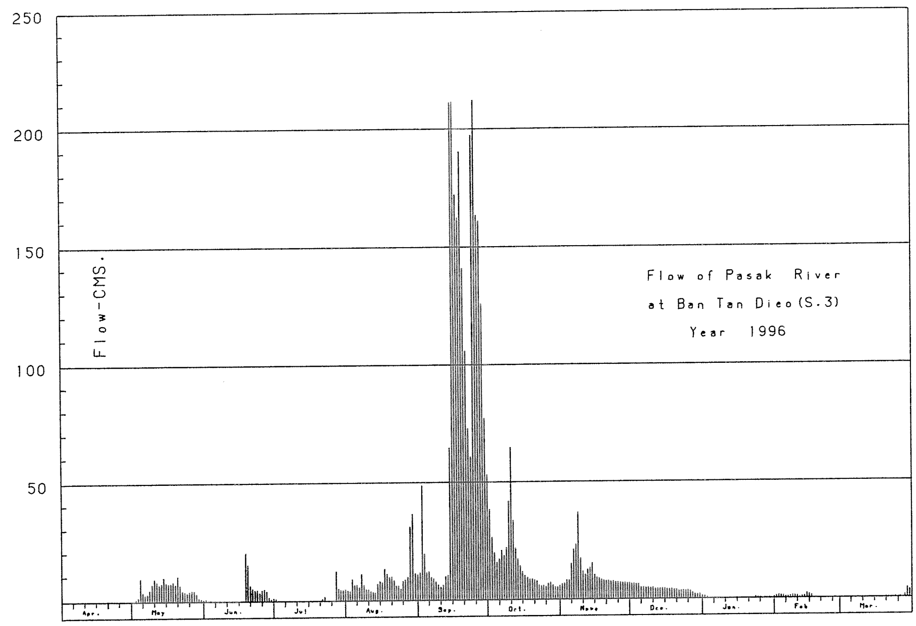
Overbank Flow Conditions — Overbank flow starts at elevation +7.18 m.(A.D.), and is included.

General Description — Records good. The weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.75	0.92	0.97	1.58	2.18	3.54	1.79	1.81	1.47	1.06	0.82	
2	0.66	1.04	0.90	0.75	1.50	3.96	2.99	1.83	1.80	1.44	1.10	0.73	
3	0.66	1.14	0.82	0.77	2.00	2.65	2.66	1.93	1.80	1.27	1.10	0.71	
4	0.65	2.05	0.81	0.74	1.81	2.18	2.42	1.95	1.79	1.06	1.04	0.70	
5	0.64	1.50	0.80	0.69	1.81	2.22	2.51	2.38	1.79	1.13	0.95	0.70	
6	0.64	1.30	0.79	0.68	1.72	2.06	2.70	2.71	1.78	1.08	0.90	0.70	
7	0.66	1.41	0.77	0.73	2.16	2.00	2.60	2.83	1.78	1.26	1.03	0.90	
8	0.66	1.61	0.76	0.68	1.80	1.91	2.76	3.48	1.78	1.20	1.05	1.36	
9	0.66	1.86	0.76	0.68	1.63	1.79	3.69	2.52	1.78	1.11	1.07	1.27	
10	0.65	2.04	0.75	0.68	1.59	1.71	4.57	2.19	1.78	0.96	1.01	1.27	
11	0.61	1.93	0.74	0.68	1.49	1.78	3.34	2.11	1.76	0.96	0.94	1.25	
12	0.60	1.84	0.74	0.67	1.48	2.08	2.75	2.25	1.76	1.04	0.97	1.28	
13	0.60	1.87	0.73	0.66	1.42	2.10	2.50	2.29	1.75	0.99	1.00	1.27	
14	0.58	2.08	0.73	0.66	1.85	4.56	2.34	2.39	1.76	0.89	1.26	1.24	
15	0.69	1.90	0.73	0.68	1.94	8.11	2.19	2.11	1.75	0.89	1.18	1.23	
16	0.70	1.86	0.73	0.68	1.88	8.11	2.08	2.02	1.74	0.96	1.04	1.23	
17	0.71	1.89	0.72	0.64	2.29	7.62	2.04	2.00	1.74	0.89	1.32	1.25	
18	0.75	1.93	2.69	0.68	2.15	7.41	1.97	1.95	1.74	0.94	1.27	1.35	
19	0.76	1.85	2.39	0.70	2.07	7.89	1.99	1.93	1.73	0.95	1.24	1.36	
20	0.78	2.10	1.81	0.71	2.07	6.87	1.95	1.91	1.72	0.92	1.16	1.37	
21	0.80	1.81	1.65	0.93	1.97	5.89	1.92	1.90	1.70	1.08	0.83	1.38	
22	0.80	1.58	1.61	1.19	1.78	4.83	1.76	1.89	1.70	1.20	0.76	1.39	
23	0.75	1.49	1.60	0.72	1.76	4.44	1.74	1.88	1.70	0.94	0.72	1.30	
24	0.74	1.46	1.47	0.70	1.64	7.97	1.74	1.87	1.70	0.94	0.87	1.30	
25	0.72	1.52	1.60	0.70	1.93	8.12	1.71	1.85	1.70	0.86	0.85	1.28	
26	0.70	1.58	1.64	0.75	1.97	7.43	1.84	1.85	1.69	0.86	0.78	1.30	
27	0.66	1.58	1.56	2.24	2.07	7.38	1.85	1.84	1.65	0.89	0.82	1.33	
28	0.64	1.42	1.17	1.67	3.23	6.45	1.77	1.83	1.60	0.87	0.81	1.51	
29	0.61	1.04	0.94	1.57	3.47	4.98	1.66	1.83	1.60	0.84		1.74	
30	0.60	0.98	1.07	1.59	2.17	4.13	1.68	1.82	1.59	0.88		1.70	
31		0.95		1.60	2.12		1.72		1.52	0.88		1.61	
Mean	0.68	1.59	1.15	0.90	1.95	4.69	2.35	2.10	1.73	1.02	1.00	1.22	
Max	0.80	2.10	2.69	2.24	3.47	8.12	4.57	3.48	1.81	1.47	1.32	1.74	8.12
Min	0.58	0.75	0.72	0.64	1.42	1.71	1.66	1.79	1.52	0.84	0.72	0.70	0.58

Annual Max Momentary Gage Height 8.16 M (A.D), at 20.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.10 M (A.D)
Left Bank Elevation 7.92 M (A.D)
Right Bank Elevation 7.18 M (A.D), Drainage Area 1047 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.21	0.68	0.86	4.44	11.70	38.50	6.41	6.63	1.06	1.23	0.00		
2	0.11	1.14	0.61	0.21	3.82	49.00	26.80	6.88	6.50	0.88	1.41	0.00		
3	0.11	1.59	0.33	0.23	9.00	20.00	20.20	8.13	6.50	0.29	1.41	0.00		
4	0.10	9.75	0.29	0.20	6.63	11.70	15.85	8.38	6.41	0.00	1.14	0.00		
5	0.09	3.82	0.26	0.14	6.63	12.35	17.42	15.15	4.96	0.03	0.79	0.00		
6	0.09	2.45	0.25	0.13	5.74	9.90	21.00	21.20	4.79	0.00	0.61	0.00		
7	0.11	3.12	0.23	0.19	11.40	9.00	19.00	23.60	4.79	0.26	1.09	0.00		
8	0.11	4.69	0.22	0.13	6.50	7.88	22.20	37.00	4.79	0.10	1.18	0.53		
9	0.11	7.25	0.22	0.13	4.88	6.41	42.25	17.60	4.79	0.01	1.28	0.29		
10	0.10	9.60	0.21	0.13	4.52	5.65	65.10	11.85	4.79	0.00	1.00	0.29		
11	0.06	8.13	0.20	0.13	3.74	6.31	33.80	10.65	4.47	0.00	0.75	0.23		
12	0.05	7.00	0.20	0.12	3.66	10.20	22.00	12.87	4.47	0.00	0.86	0.32		
13	0.05	7.38	0.19	0.11	3.20	10.50	17.25	13.57	4.30	0.00	0.96	0.29		
14	0.04	10.20	0.19	0.11	7.13	64.80	14.45	15.33	4.47	0.00	2.21	0.21		
15	0.14	7.75	0.19	0.13	8.25	211.55	11.85	10.65	4.30	0.00	1.77	0.18		
16	0.15	7.25	0.19	0.13	7.50	211.55	10.20	9.30	4.14	0.00	1.14	0.18		
17	0.17	7.63	0.18	0.09	13.57	172.20	9.60	9.00	4.14	0.00	0.42	0.23		
18	0.21	8.13	20.80	0.13	11.25	162.45	8.63	8.38	4.14	0.00	0.29	0.51		
19	0.22	7.13	15.33	0.15	10.05	190.65	8.88	8.13	3.98	0.00	0.21	0.53		
20	0.24	10.50	6.63	0.17	10.05	141.13	8.38	7.88	3.81	0.00	0.06	0.56		
21	0.26	6.63	5.07	0.72	8.63	106.15	8.00	7.75	3.49	0.00	0.00	0.59		
22	0.26	4.44	4.69	1.82	6.31	72.90	6.12	7.63	3.49	0.10	0.00	0.61		
23	0.21	3.74	4.60	0.18	6.12	61.20	5.93	7.50	3.49	0.75	0.00	0.37		
24	0.20	3.51	3.59	0.15	4.98	197.45	5.93	7.38	3.49	0.75	0.00	0.37		
25	0.18	3.98	4.60	0.15	8.13	212.60	5.65	7.13	3.49	0.47	0.00	0.32		
26	0.15	4.44	4.98	0.21	8.63	163.35	7.00	7.13	3.32	0.47	0.00	0.37		
27	0.11	4.44	4.29	12.70	10.05	161.20	7.13	7.00	2.67	0.57	0.00	0.45		
28	0.09	3.20	1.72	5.26	31.60	125.75	6.22	6.88	1.85	0.51	0.00	1.31		
29	0.06	1.14	0.75	4.37	36.75	77.40	5.17	6.88	1.85	0.40		4.14		
30	0.05	0.89	1.28	4.52	11.55	53.25	5.36	6.75	1.79	0.54		3.49		
31		0.79		4.60	10.80		5.74		1.37	0.54		2.01		
Total	3.93	161.92	82.97	38.30	285.51	2556.18	501.61	333.99	127.47	7.73	19.81	18.38	4137.80	CMSDAY
Mean	0.13	5.22	2.77	1.24	9.21	85.21	16.18	11.13	4.11	0.25	0.71	0.59	11.34	CMS
Max	0.26	10.50	20.80	12.70	36.75	212.60	65.10	37.00	6.63	1.06	2.21	4.14	212.60	CMS
Min	0.04	0.21	0.18	0.09	3.20	5.65	5.17	6.41	1.37	0.00	0.00	0.00	0.00	CMS
Runoff	0.340	13.990	7.169	3.309	24.668	220.854	43.339	28.857	11.013	0.668	1.712	1.588	357.506	MCM

Momentary Peak 216.80 CMS, at 8.16 M (A.D), at 20.00 Hours, on Sep 15, 1996

Runoff Yield 10.83 Liters/Second/Square KM, Momentary Peak Yield 207.068 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

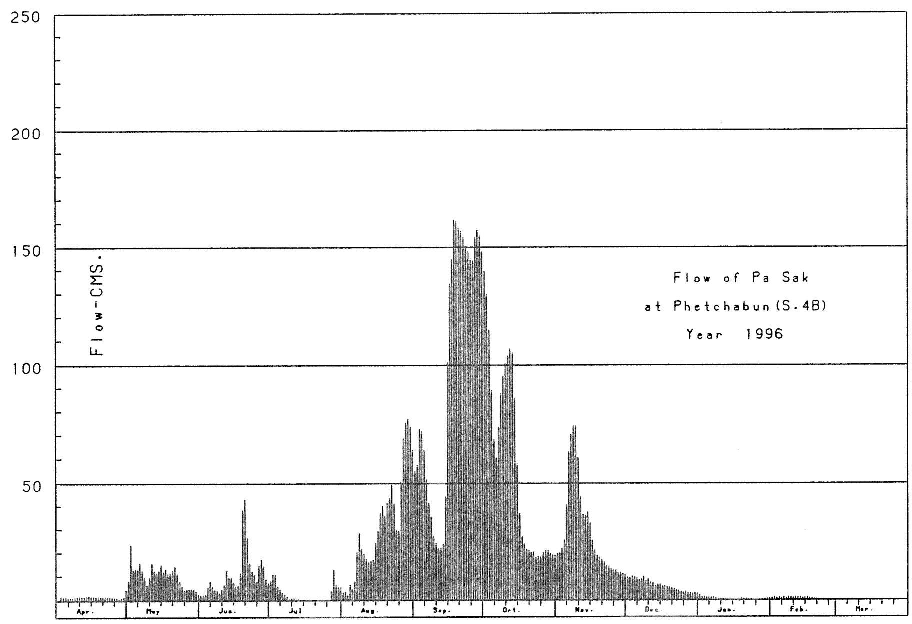
Pasak River at Phetchabun, Phetchabun (S.4B)

Location	Lat. 16°-25′-12″ N., Long. 101°-10′-13″ E., on left bank about 300 meters downstream from Phathana Phak Nua 2 bridge at Phetchabun, Amphoe Muang, Phetchabun.
Drainage Area	3,566 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+106.50 m. (M.S.L.D.)
Bench Mark	B.M.-H.D.
Location	On left bank infront town-hall Changwat Phetchbun.
Elevation	+115.42 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00hours.
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, 1995 to date.
Rated by Float	-
Rated by Current Meter	1966, 1995 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the locol weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 43 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.39	109.84	109.62	109.84	109.66	111.90	115.03	109.99	109.89	109.62	109.57	109.34	
2	109.59	110.28	109.62	109.93	109.68	112.01	114.71	110.02	109.89	109.60	109.58	109.49	
3	109.58	109.99	109.63	109.92	109.61	112.65	114.21	110.13	109.90	109.59	109.57	109.52	
4	109.57	110.00	109.74	109.77	109.79	112.60	113.29	110.37	109.90	109.58	109.58	109.53	
5	109.57	109.99	109.84	109.71	109.72	112.29	112.46	111.19	109.88	109.58	109.56	109.52	
6	109.56	110.07	109.76	109.67	109.84	111.74	112.15	112.25	109.86	109.58	109.58	109.50	
7	109.58	109.98	109.71	109.63	110.20	111.24	112.68	112.56	109.86	109.57	109.57	109.50	
8	109.58	109.89	109.69	109.60	110.55	110.94	113.24	112.69	109.90	109.56	109.58	109.47	
9	109.60	109.79	109.66	109.57	110.12	110.46	113.52	112.70	109.84	109.54	109.58	109.45	
10	109.60	109.88	109.71	109.56	110.00	110.27	113.71	112.15	109.87	109.54	109.57	109.46	
11	109.60	110.07	109.79	109.55	109.83	110.14	113.82	111.37	109.82	109.54	109.58	109.47	
12	109.60	109.98	109.98	109.54	109.75	110.15	113.94	111.00	109.82	109.54	109.58	109.47	
13	109.61	109.94	109.89	109.53	109.76	110.26	113.87	110.96	109.77	109.54	109.57	109.47	
14	109.61	109.98	109.88	109.52	109.82	111.38	113.17	111.05	109.80	109.53	109.57	109.42	
15	109.59	110.05	109.82	109.51	110.28	113.73	112.04	110.78	109.79	109.51	109.57	109.39	
16	109.59	109.96	109.76	109.49	110.60	114.85	111.01	110.36	109.77	109.49	109.57	109.37	
17	109.59	110.00	109.78	109.50	111.02	115.19	110.46	110.22	109.77	109.46	109.57	109.36	
18	109.59	109.93	109.94	109.50	111.18	115.70	110.26	110.17	109.76	109.47	109.56	109.35	
19	109.59	109.94	111.10	109.49	110.96	115.68	110.13	110.14	109.75	109.55	109.55	109.34	
20	109.59	109.98	111.32	109.40	111.26	115.60	110.07	110.12	109.74	109.55	109.55	109.33	
21	109.59	110.03	110.43	109.38	111.34	115.55	110.04	110.08	109.72	109.54	109.54	109.33	
22	109.59	109.94	110.07	109.37	111.65	115.48	110.03	110.04	109.70	109.54	109.54	109.33	
23	109.58	109.84	109.97	109.38	111.24	115.35	109.89	110.03	109.69	109.53	109.50	109.33	
24	109.58	109.76	109.92	109.40	110.60	115.29	109.90	110.00	109.68	109.52	109.47	109.31	
25	109.56	109.70	109.84	109.48	110.60	115.19	109.90	109.99	109.67	109.49	109.44	109.31	
26	109.56	109.72	110.04	109.50	111.69	115.16	110.01	109.98	109.67	109.45	109.41	109.30	
27	109.54	109.72	110.12	109.69	112.49	115.48	110.08	109.95	109.66	109.53	109.38	109.30	
28	109.55	109.72	110.03	109.99	112.75	115.58	110.07	109.95	109.65	109.54	109.34	109.35	
29	109.59	109.72	109.87	109.79	112.81	115.50	110.00	109.94	109.65	109.54		109.51	
30	109.71	109.68	109.81	109.75	112.69	115.29	109.94	109.92	109.65	109.55		109.53	
31		109.64		109.74	112.28		109.95		109.65	109.56		109.55	
Mean	109.58	109.90	109.94	109.60	110.77	113.42	111.73	110.67	109.77	109.54	109.54	109.42	
Max	109.71	110.28	111.32	109.99	112.81	115.70	115.03	112.70	109.90	109.62	109.58	109.55	115.70
Min	109.39	109.64	109.62	109.37	109.61	110.14	109.89	109.92	109.65	109.45	109.34	109.30	109.30

Annual Max Momentary Gage Height 115.85 M (MSL), at 18.00 Hours, on Sep 18, 1996
Zero Gage at Bottom Elevation 106.50 M (MSL), River Bed 106.31 M (MSL)
Left Bank Elevation 115.86 M (MSL)
Right Bank Elevation 115.85 M (MSL), Drainage Area 3566 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	8.30	2.32	8.30	3.36	55.25	140.26	20.05	9.92	2.32	1.26	0.00	
2	1.62	24.10	2.32	11.22	3.88	57.74	130.30	20.50	9.92	1.80	1.44	0.00	
3	1.44	13.17	2.58	10.90	2.06	73.25	115.30	22.15	10.25	1.62	1.26	0.36	
4	1.26	13.50	5.44	6.22	6.74	72.00	89.48	26.01	10.25	1.44	1.44	0.54	
5	1.26	13.17	8.30	4.66	4.92	64.36	68.50	40.61	9.60	1.44	1.08	0.36	
6	1.08	15.95	5.96	3.62	8.30	51.74	61.03	63.40	8.95	1.44	1.44	0.00	
7	1.44	12.85	4.66	2.58	20.50	41.60	74.00	71.00	8.95	1.26	1.26	0.00	
8	1.44	9.92	4.14	1.80	28.98	35.89	88.10	74.25	10.25	1.08	1.44	0.00	
9	1.80	6.74	3.36	1.26	22.00	27.49	95.80	74.50	8.30	0.72	1.44	0.00	
10	1.80	9.60	4.66	1.08	20.20	24.35	101.03	61.03	9.28	0.72	1.26	0.00	
11	1.80	15.95	6.74	0.90	17.65	22.30	104.05	44.20	7.65	0.72	1.44	0.00	
12	1.80	12.85	12.85	0.72	16.52	22.45	107.35	37.00	7.65	0.72	1.44	0.00	
13	2.06	11.55	9.92	0.54	16.66	24.19	105.43	36.26	6.22	0.72	1.26	0.00	
14	2.06	12.85	9.60	0.36	17.50	44.40	86.25	37.95	7.00	0.54	1.26	0.00	
15	1.62	15.25	7.65	0.18	24.52	101.58	58.44	32.95	6.74	0.18	1.26	0.00	
16	1.62	12.20	5.96	0.00	29.80	134.57	37.19	25.84	6.22	0.00	1.26	0.00	
17	1.62	13.50	6.48	0.00	37.38	145.38	27.49	21.40	6.22	0.00	1.26	0.00	
18	1.62	11.22	11.55	0.00	40.42	162.10	24.19	19.45	5.96	0.00	1.08	0.00	
19	1.62	11.55	38.90	0.00	36.26	161.44	22.15	18.40	5.70	0.90	0.90	0.00	
20	1.62	12.85	43.20	0.00	42.00	158.80	21.25	17.70	5.44	0.90	0.90	0.00	
21	1.62	14.55	27.00	0.00	43.60	157.15	20.80	16.30	4.92	0.72	0.72	0.00	
22	1.62	11.55	15.95	0.00	49.85	154.84	20.65	14.90	4.40	0.72	0.72	0.00	
23	1.44	8.30	12.53	0.00	41.60	150.57	18.55	14.55	4.14	0.54	0.00	0.00	
24	1.44	5.96	10.90	0.00	29.80	148.63	18.70	13.50	3.88	0.36	0.00	0.00	
25	1.08	4.40	8.30	0.00	29.80	145.38	18.70	13.17	3.62	0.00	0.00	0.00	
26	1.08	4.92	14.90	0.00	50.69	144.42	20.35	12.85	3.62	0.00	0.00	0.00	
27	0.72	4.92	17.70	4.14	69.25	154.84	21.40	11.87	3.36	0.54	0.00	0.00	
28	0.90	4.92	14.55	13.17	75.75	158.14	21.25	11.87	3.10	0.72	0.00	0.00	
29	1.62	4.92	9.28	6.74	77.25	155.50	20.20	11.55	3.10	0.72		0.18	
30	4.66	3.88	7.32	5.70	74.25	148.63	19.30	10.90	3.10	0.90		0.54	
31		2.84		5.44	64.12		19.45		3.10	1.08		0.90	
Total	46.76	328.23	335.02	89.53	1005.61	2998.98	1776.94	896.11	200.81	24.82	26.82	2.88	7732.51 CMSDAY
Mean	1.56	10.59	11.17	2.89	32.44	99.97	57.32	29.87	6.48	0.80	0.96	0.09	21.18 CMS
Max	4.66	24.10	43.20	13.17	77.25	162.10	140.26	74.50	10.25	2.32	1.44	0.90	162.10 CMS
Min	0.00	2.84	2.32	0.00	2.06	22.30	18.55	10.90	3.10	0.00	0.00	0.00	0.00 CMS
Runoff	4.040	28.359	28.946	7.735	86.885	259.112	153.528	77.424	17.350	2.144	2.317	0.249	668.089 MCM

Momentary Peak 167.05 CMS, at 115.85 M (MSL), at 18.00 Hours, on Sep 18, 1996

Runoff Yield 5.94 Liters/Second/Square KM, Momentary Peak Yield 46.845 Liters/Second/Square KM

WATER YEAR 1996

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, Ampho 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 Operatio

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 33 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

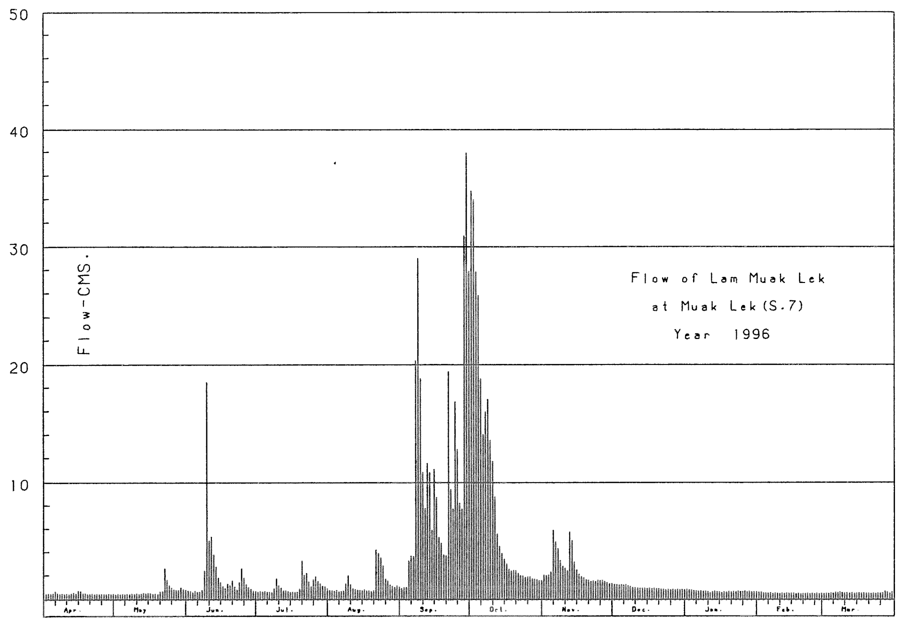
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.44	0.57	0.53	0.58	0.62	2.09	0.80	0.69	0.60	0.53	0.48	
2	0.46	0.44	0.54	0.54	0.56	0.63	2.07	0.80	0.68	0.60	0.52	0.48	
3	0.46	0.44	0.52	0.54	0.56	0.64	1.91	0.80	0.68	0.58	0.51	0.49	
4	0.47	0.44	0.55	0.54	0.57	0.92	1.85	0.83	0.68	0.58	0.50	0.50	
5	0.55	0.44	0.53	0.53	0.54	0.95	1.63	1.11	0.68	0.56	0.50	0.50	
6	0.47	0.44	0.52	0.52	0.54	0.95	1.46	1.04	0.68	0.56	0.50	0.51	
7	0.46	0.44	0.58	0.52	0.57	1.68	1.53	1.00	0.67	0.56	0.49	0.52	
8	0.46	0.45	0.84	0.61	0.69	1.94	1.57	0.92	0.65	0.55	0.49	0.53	
9	0.45	0.46	1.62	0.76	0.80	1.63	1.44	0.88	0.64	0.55	0.49	0.52	
10	0.45	0.46	1.05	0.66	0.68	1.33	1.37	0.86	0.63	0.55	0.49	0.51	
11	0.45	0.46	1.07	0.62	0.62	1.20	1.24	0.84	0.63	0.54	0.49	0.50	
12	0.48	0.47	0.96	0.57	0.60	1.36	1.09	1.10	0.62	0.54	0.49	0.50	
13	0.50	0.48	0.87	0.56	0.59	1.33	1.01	1.05	0.62	0.54	0.49	0.50	
14	0.48	0.48	0.77	0.55	0.57	1.11	0.97	0.91	0.62	0.54	0.49	0.49	
15	0.55	0.48	0.71	0.53	0.57	1.34	0.93	0.85	0.62	0.53	0.49	0.49	
16	0.54	0.48	0.65	0.52	0.59	1.24	0.90	0.81	0.62	0.52	0.49	0.50	
17	0.49	0.46	0.62	0.52	0.56	1.07	0.85	0.79	0.62	0.53	0.48	0.50	
18	0.47	0.45	0.69	0.52	0.56	1.03	0.84	0.77	0.62	0.53	0.48	0.50	
19	0.46	0.45	0.67	0.61	0.55	0.96	0.84	0.75	0.62	0.54	0.48	0.49	
20	0.45	0.53	0.73	0.92	0.56	0.95	0.84	0.74	0.61	0.54	0.48	0.49	
21	0.45	0.55	0.64	0.80	0.99	1.65	0.82	0.73	0.61	0.54	0.48	0.49	
22	0.45	0.86	0.59	0.82	0.97	1.27	0.80	0.73	0.60	0.54	0.48	0.49	
23	0.44	0.74	0.71	0.72	0.94	1.20	0.79	0.73	0.60	0.55	0.48	0.49	
24	0.44	0.67	0.86	0.65	0.88	1.56	0.78	0.74	0.60	0.55	0.48	0.49	
25	0.44	0.62	0.77	0.75	0.76	1.41	0.78	0.74	0.60	0.55	0.48	0.50	
26	0.44	0.59	0.69	0.78	0.73	1.22	0.78	0.74	0.60	0.55	0.48	0.50	
27	0.44	0.58	0.63	0.73	0.68	1.20	0.76	0.73	0.60	0.55	0.48	0.56	
28	0.44	0.57	0.61	0.69	0.65	1.99	0.75	0.71	0.60	0.54	0.48	0.52	
29	0.44	0.63	0.57	0.66	0.64	2.17	0.75	0.70	0.60	0.54		0.50	
30	0.44	0.59	0.54	0.64	0.66	1.91	0.73	0.70	0.60	0.53		0.53	
31		0.58		0.61	0.64		0.74		0.60	0.53		0.50	
Mean	0.47	0.52	0.72	0.63	0.66	1.28	1.13	0.83	0.63	0.55	0.49	0.50	
Max	0.55	0.86	1.62	0.92	0.99	2.17	2.09	1.11	0.69	0.60	0.53	0.56	2.17
Min	0.44	0.44	0.52	0.52	0.54	0.62	0.73	0.70	0.60	0.52	0.48	0.48	0.44

Annual Max Momentary Gage Height — 3.17 M (A.D), at 18.00 Hours, on Sep 7, 1996

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.36 M (A.D)

Left Bank Elevation — 7.07 M (A.D)

Right Bank Elevation — 6.84 M (A.D), Drainage Area 177 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.48	0.81	0.69	0.84	1.00	34.82	2.10	1.35	0.90	0.69	0.56	
2	0.52	0.48	0.72	0.72	0.78	1.05	34.06	2.10	1.30	0.90	0.66	0.56	
3	0.52	0.48	0.66	0.72	0.78	1.10	27.98	2.10	1.30	0.84	0.63	0.58	
4	0.54	0.48	0.75	0.72	0.81	3.36	25.90	2.40	1.30	0.84	0.60	0.60	
5	0.75	0.48	0.69	0.69	0.72	3.75	18.90	6.00	1.30	0.78	0.60	0.60	
6	0.54	0.48	0.66	0.66	0.72	3.75	14.16	4.96	1.30	0.78	0.60	0.63	
7	0.52	0.48	0.84	0.66	0.81	20.40	16.04	4.40	1.25	0.78	0.58	0.66	
8	0.52	0.50	2.50	0.95	1.35	29.12	17.16	3.36	1.15	0.75	0.58	0.69	
9	0.50	0.52	18.60	1.82	2.10	18.90	13.64	2.90	1.10	0.75	0.58	0.66	
10	0.50	0.52	5.10	1.20	1.30	10.92	11.88	2.70	1.05	0.75	0.58	0.63	
11	0.50	0.52	5.38	1.00	1.00	7.80	8.76	2.50	1.05	0.72	0.58	0.60	
12	0.56	0.54	3.88	0.81	0.90	11.64	5.66	5.80	1.00	0.72	0.58	0.60	
13	0.60	0.56	2.80	0.78	0.87	10.92	4.54	5.10	1.00	0.72	0.58	0.60	
14	0.56	0.56	1.89	0.75	0.81	6.00	4.01	3.23	1.00	0.72	0.58	0.58	
15	0.75	0.56	1.47	0.69	0.81	11.16	3.49	2.60	1.00	0.69	0.58	0.58	
16	0.72	0.56	1.15	0.66	0.87	8.76	3.10	2.20	1.00	0.66	0.58	0.60	
17	0.58	0.52	1.00	0.66	0.78	5.38	2.60	2.03	1.00	0.69	0.56	0.60	
18	0.54	0.50	1.35	0.66	0.78	4.82	2.50	1.89	1.00	0.69	0.56	0.60	
19	0.52	0.50	1.25	0.95	0.75	3.88	2.50	1.75	1.00	0.72	0.56	0.58	
20	0.50	0.69	1.61	3.36	0.78	3.75	2.50	1.68	0.95	0.72	0.56	0.58	
21	0.50	0.75	1.10	2.10	4.27	19.50	2.30	1.61	0.95	0.72	0.56	0.58	
22	0.50	2.70	0.87	2.30	4.01	9.48	2.10	1.61	0.90	0.72	0.56	0.58	
23	0.48	1.68	1.47	1.54	3.62	7.80	2.03	1.61	0.90	0.75	0.56	0.58	
24	0.48	1.25	2.70	1.15	2.90	16.88	1.96	1.68	0.90	0.75	0.56	0.58	
25	0.48	1.00	1.89	1.75	1.82	12.86	1.96	1.68	0.90	0.75	0.56	0.60	
26	0.48	0.87	1.35	1.96	1.61	8.28	1.96	1.68	0.90	0.75	0.56	0.60	
27	0.48	0.84	1.05	1.61	1.30	7.80	1.82	1.61	0.90	0.75	0.56	0.78	
28	0.48	0.81	0.95	1.35	1.15	31.02	1.75	1.47	0.90	0.72	0.56	0.66	
29	0.48	1.05	0.81	1.20	1.10	38.00	1.75	1.40	0.90	0.72		0.60	
30	0.48	0.87	0.72	1.10	1.20	27.98	1.61	1.40	0.90	0.69		0.69	
31		0.84		0.95	1.10		1.68		0.90	0.69		0.60	
Total	16.10	23.07	66.02	36.16	42.64	347.06	275.12	77.55	32.35	23.13	16.30	18.94	974.44 CMSDAY
Mean	0.54	0.74	2.20	1.17	1.38	11.57	8.87	2.59	1.04	0.75	0.58	0.61	2.67 CMS
Max	0.75	2.70	18.60	3.36	4.27	38.00	34.82	6.00	1.35	0.90	0.69	0.78	38.00 CMS
Min	0.48	0.48	0.66	0.66	0.72	1.00	1.61	1.40	0.90	0.66	0.56	0.56	0.48 CMS
Runoff	1.391	1.993	5.704	3.124	3.684	29.986	23.770	6.700	2.795	1.998	1.408	1.636	84.192 MCM

Momentary Peak 89.80 CMS, at 3.17 M (A.D), at 18.00 Hours, on Sep 7, 1996

Runoff Yield 15.08 Liters/Second/Square KM, Momentary Peak Yield 507.345 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

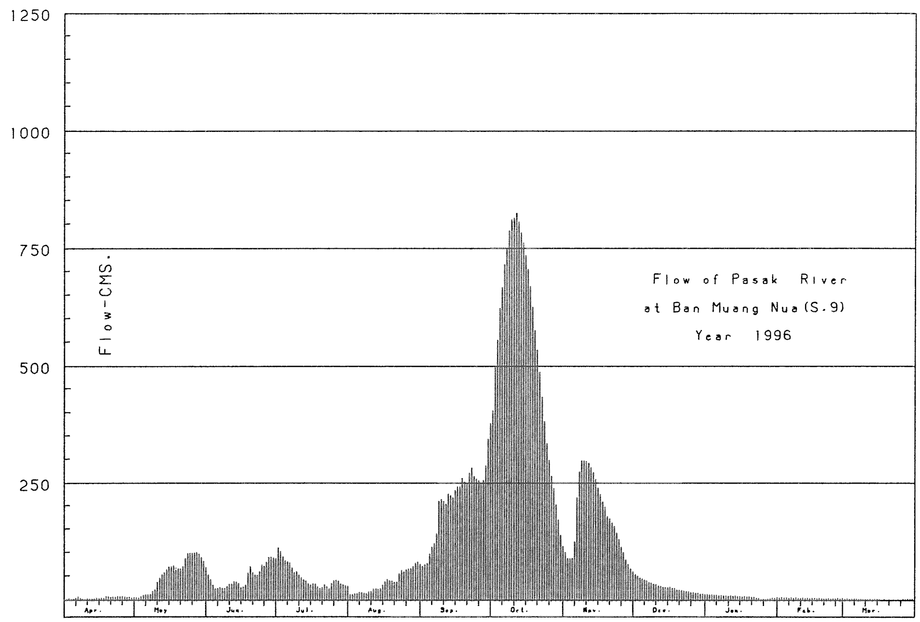
Pasak River at Ban Muang Nua, Saraburi (S.9)

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	+7.49 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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Pasak Dam above gage site. Stage-discharge relation defined by 57 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.35	8.45	9.50	10.29	8.71	9.76	13.40	10.14	9.50	8.74	8.49	8.40	
2	8.35	8.48	9.34	10.17	8.74	9.79	14.21	9.99	9.45	8.73	8.49	8.40	
3	8.33	8.55	9.17	10.03	8.76	9.84	14.67	9.96	9.41	8.71	8.49	8.39	
4	8.32	8.70	9.01	9.91	8.81	10.10	15.19	9.99	9.36	8.71	8.47	8.38	
5	8.45	8.73	9.04	9.89	8.86	10.30	15.50	10.45	9.33	8.68	8.46	8.38	
6	8.51	8.67	9.06	9.85	8.86	10.39	15.85	11.55	9.30	8.67	8.46	8.37	
7	8.44	8.75	9.04	9.71	8.80	10.66	16.08	12.13	9.26	8.66	8.46	8.37	
8	8.29	8.90	9.02	9.55	8.80	11.46	16.35	12.36	9.23	8.65	8.46	8.36	
9	8.33	8.99	9.12	9.59	8.87	11.52	16.50	12.37	9.20	8.63	8.45	8.36	
10	8.36	9.25	9.18	9.49	8.91	11.46	16.53	12.35	9.18	8.62	8.44	8.35	
11	8.37	9.40	9.20	9.39	9.00	11.41	16.60	12.32	9.15	8.62	8.44	8.34	
12	8.37	9.50	9.27	9.34	9.03	11.63	16.47	12.22	9.12	8.60	8.44	8.34	
13	8.39	9.55	9.27	9.28	8.99	11.59	16.32	12.12	9.10	8.59	8.44	8.34	
14	8.41	9.66	9.21	9.21	9.03	11.55	16.16	11.96	9.08	8.59	8.44	8.33	
15	8.42	9.72	9.08	9.15	9.15	11.72	15.98	11.78	9.08	8.58	8.44	8.33	
16	8.41	9.73	9.08	9.19	9.28	11.79	15.78	11.62	9.08	8.57	8.43	8.33	
17	8.44	9.77	9.16	9.20	9.34	11.80	15.52	11.46	9.06	8.57	8.43	8.32	
18	8.55	9.69	9.54	9.10	9.31	11.98	15.21	11.33	9.03	8.56	8.43	8.32	
19	8.58	9.69	9.74	9.04	9.29	11.91	14.83	11.11	8.99	8.56	8.43	8.32	
20	8.52	9.66	9.55	9.06	9.24	11.86	14.52	11.05	8.97	8.55	8.42	8.31	
21	8.48	9.73	9.49	9.18	9.27	12.10	14.12	10.96	8.96	8.51	8.42	8.27	
22	8.52	9.98	9.47	9.10	9.53	12.22	13.67	10.85	8.93	8.48	8.41	8.27	
23	8.54	10.13	9.59	9.03	9.62	12.04	13.19	10.68	8.92	8.42	8.41	8.27	
24	8.56	10.12	9.78	9.21	9.59	11.97	12.74	10.50	8.90	8.36	8.41	8.26	
25	8.55	10.12	9.76	9.31	9.65	11.94	12.37	10.31	8.87	8.35	8.41	8.26	
26	8.52	10.14	9.88	9.31	9.66	11.87	12.04	10.14	8.85	8.35	8.42	8.30	
27	8.50	10.15	10.00	9.30	9.69	11.94	11.75	9.95	8.84	8.36	8.42	8.30	
28	8.48	10.09	10.01	9.19	9.74	12.25	11.39	9.80	8.82	8.42	8.41	8.35	
29	8.46	10.01	10.00	9.18	9.85	12.83	11.02	9.68	8.79	8.44		8.39	
30	8.45	9.89	9.96	9.13	9.87	13.14	10.63	9.58	8.76	8.46		8.34	
31		9.71		9.13	9.81		10.31		8.74	8.47		8.49	
Mean	8.44	9.48	9.42	9.40	9.23	11.49	14.35	11.02	9.07	8.56	8.44	8.34	
Max	8.58	10.15	10.01	10.29	9.87	13.14	16.60	12.37	9.50	8.74	8.49	8.49	16.60
Min	8.29	8.45	9.01	9.03	8.71	9.76	10.31	9.58	8.74	8.35	8.41	8.26	8.26

Annual Max Momentary Gage Height 16.61 M (MSL), at 6.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation 7.49 M (MSL), River Bed 5.87 M (MSL)
Left Bank Elevation 21.05 M (MSL)
Right Bank Elevation 21.96 M (MSL), Drainage Area 14374 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.75	5.75	55.50	113.25	12.30	73.70	405.00	102.00	55.50	13.20	6.75	4.50	
2	3.75	6.50	44.60	104.25	13.20	75.80	498.20	90.75	52.00	12.90	6.75	4.50	
3	3.45	8.25	33.55	93.75	13.80	79.50	555.10	88.50	49.20	12.30	6.75	4.35	
4	3.30	12.00	24.50	84.75	15.40	99.00	624.15	90.75	45.90	12.30	6.25	4.20	
5	5.75	12.90	26.00	83.25	17.40	114.00	667.00	126.00	43.95	11.50	6.00	4.20	
6	7.25	11.25	27.00	80.25	17.40	121.20	716.75	219.75	42.00	11.25	6.00	4.05	
7	5.50	13.50	26.00	70.20	15.00	142.80	750.10	275.00	39.40	11.00	6.00	4.05	
8	2.85	19.00	25.00	59.00	15.00	211.40	789.25	298.00	37.45	10.75	6.00	3.90	
9	3.45	23.50	30.30	61.80	17.80	216.90	811.50	299.00	35.50	10.25	5.75	3.90	
10	3.90	38.75	34.20	54.80	19.50	211.40	816.00	297.00	34.20	10.00	5.50	3.75	
11	4.05	48.50	35.50	47.85	24.00	206.90	826.50	294.00	32.25	10.00	5.50	3.60	
12	4.05	55.50	40.05	44.60	25.50	227.35	807.00	284.00	30.30	9.50	5.50	3.60	
13	4.35	59.00	40.05	40.70	23.50	223.55	784.90	274.00	29.00	9.25	5.50	3.60	
14	4.75	66.70	36.15	36.15	25.50	219.75	761.70	258.70	28.00	9.25	5.50	3.45	
15	5.00	70.90	28.00	32.25	32.25	235.90	735.60	241.60	28.00	9.00	5.50	3.45	
16	4.75	71.60	28.00	34.85	40.70	242.55	706.60	226.40	28.00	8.75	5.25	3.45	
17	5.50	74.40	32.90	35.50	44.60	243.50	669.80	211.40	27.00	8.75	5.25	3.30	
18	8.25	68.80	58.30	29.00	42.65	260.60	626.85	199.70	25.50	8.50	5.25	3.30	
19	9.00	68.80	72.30	26.00	41.35	253.95	575.90	179.90	23.50	8.50	5.25	3.30	
20	7.50	66.70	59.00	27.00	38.10	249.20	535.60	174.50	22.50	8.25	5.00	3.15	
21	6.50	71.60	54.80	34.20	40.05	272.00	487.40	166.80	22.00	7.25	5.00	2.55	
22	7.50	90.00	53.40	29.00	57.60	284.00	435.05	158.00	20.50	6.50	4.75	2.55	
23	8.00	101.25	61.80	25.50	63.90	266.30	381.95	144.40	20.00	5.00	4.75	2.55	
24	8.50	100.50	75.10	36.15	61.80	259.65	336.00	130.00	19.00	3.90	4.75	2.40	
25	8.25	100.50	73.70	42.65	66.00	256.80	299.00	114.80	17.80	3.75	4.75	2.40	
26	7.50	102.00	82.50	42.65	66.70	250.15	266.30	102.00	17.00	3.75	5.00	3.00	
27	7.00	102.75	91.50	42.00	68.80	256.80	238.75	87.75	16.60	3.90	5.00	3.00	
28	6.50	98.25	92.25	34.85	72.30	287.00	205.10	76.50	15.80	5.00	4.75	3.75	
29	6.00	92.25	91.50	34.20	80.25	345.00	171.80	68.10	14.70	5.50		4.35	
30	5.75	83.25	88.50	30.95	81.75	376.70	140.40	61.10	13.80	6.00		3.60	
31		70.20		30.95	77.25		114.80		13.20	6.25		6.75	
Total	171.65	1814.85	1521.95	1542.30	1231.35	6563.35	*******	5340.40	899.55	262.00	154.00	112.50	36353.95 CMSDAY
Mean	5.72	58.54	50.73	49.75	39.72	218.78	540.00	178.01	29.02	8.45	5.50	3.63	99.60 CMS
Max	9.00	102.75	92.25	113.25	81.75	376.70	826.50	299.00	55.50	13.20	6.75	6.75	826.50 CMS
Min	2.85	5.75	24.50	25.50	12.30	73.70	114.80	61.10	13.20	3.75	4.75	2.40	2.40 CMS
Runoff	14.831	156.803	131.496	133.255	106.389	567.073	*******	461.411	77.721	22.637	13.306	9.720	3140.982 MCM

Momentary Peak 828.00 CMS, at 16.61 M (MSL), at 6.00 Hours, on Oct 11, 1996

Runoff Yield 6.93 Liters/Second/Square KM, Momentary Peak Yield 57.604 Liters/Second/Square KM

WATER YEAR 1996

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 Nong 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 — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 109 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

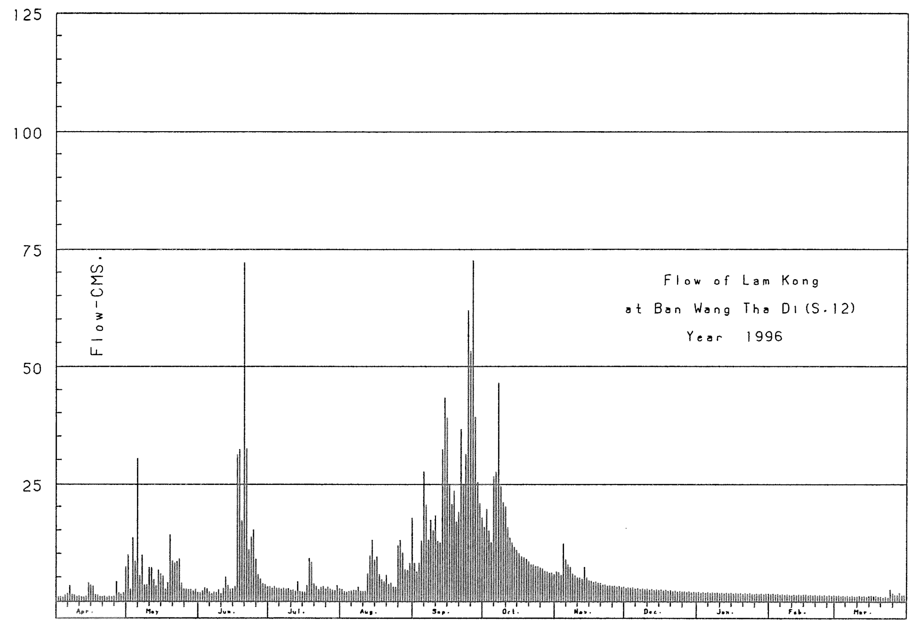
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	1.40	0.78	0.94	0.89	1.31	1.69	1.19	0.92	0.81	0.74	0.67	
2	0.61	0.87	0.85	0.92	0.82	1.20	1.85	1.18	0.92	0.80	0.74	0.67	
3	0.61	1.59	0.91	0.95	0.82	1.30	1.65	1.15	0.92	0.80	0.73	0.66	
4	0.67	1.33	0.91	0.92	0.82	1.55	1.54	1.53	0.92	0.80	0.73	0.65	
5	0.78	2.24	0.81	0.90	0.85	2.14	2.10	1.35	0.91	0.80	0.72	0.65	
6	0.96	1.13	0.77	0.89	0.85	1.88	2.13	1.28	0.90	0.80	0.72	0.65	
7	0.73	1.40	0.80	0.90	0.86	1.57	2.73	1.26	0.89	0.79	0.72	0.65	
8	0.67	0.99	0.81	0.90	0.93	1.75	2.03	1.16	0.89	0.79	0.71	0.65	
9	0.64	0.99	0.86	0.89	0.84	1.66	1.90	1.13	0.89	0.79	0.71	0.65	
10	0.63	1.24	0.77	0.87	0.82	1.79	1.87	1.11	0.89	0.78	0.70	0.65	
11	0.62	1.25	0.91	0.86	0.84	1.55	1.68	1.10	0.88	0.78	0.70	0.65	
12	0.61	1.08	1.11	0.84	1.16	1.54	1.59	1.09	0.88	0.78	0.70	0.65	
13	0.62	0.96	0.99	1.05	1.40	2.30	1.53	1.26	0.87	0.78	0.70	0.64	
14	1.03	1.22	0.88	0.82	1.56	2.64	1.49	1.10	0.87	0.78	0.70	0.64	
15	0.97	1.16	0.88	0.81	1.34	2.51	1.45	1.07	0.87	0.78	0.70	0.64	
16	0.95	1.12	0.96	0.82	1.39	2.05	1.42	1.05	0.87	0.77	0.70	0.66	
17	0.73	0.89	2.26	0.97	1.16	1.89	1.39	1.04	0.86	0.77	0.70	0.66	
18	0.67	1.02	2.30	1.37	1.07	1.99	1.37	1.04	0.86	0.77	0.69	0.65	
19	0.65	1.62	1.75	1.31	1.04	1.74	1.36	1.03	0.85	0.76	0.69	0.64	
20	0.63	1.33	3.36	1.02	1.15	1.82	1.32	1.02	0.85	0.76	0.69	0.62	
21	0.63	1.31	2.31	0.95	1.01	2.44	1.29	1.00	0.84	0.76	0.69	0.61	
22	0.61	1.32	1.46	0.89	1.02	2.04	1.28	0.99	0.84	0.76	0.68	0.61	
23	0.62	1.36	1.60	0.92	0.95	2.27	1.27	0.98	0.83	0.76	0.68	0.61	
24	0.62	1.02	1.66	0.96	0.93	3.13	1.26	0.97	0.83	0.75	0.68	0.87	
25	0.62	0.90	1.36	0.90	1.51	2.91	1.25	0.97	0.83	0.75	0.68	0.79	
26	1.05	0.88	1.16	0.93	1.56	3.37	1.23	0.96	0.82	0.74	0.68	0.68	
27	0.80	0.88	1.08	0.90	1.43	2.52	1.21	0.95	0.82	0.74	0.67	0.71	
28	0.70	0.87	1.02	0.85	1.22	2.06	1.19	0.95	0.82	0.74	0.67	0.78	
29	0.80	0.85	0.99	0.86	1.22	1.89	1.18	0.94	0.81	0.74		0.70	
30	1.25	0.87	0.95	0.97	1.30	1.77	1.17	0.94	0.81	0.74		0.67	
31		0.81		0.89	1.77		1.16		0.81	0.74		0.73	
Mean	0.74	1.16	1.24	0.93	1.11	2.02	1.53	1.09	0.86	0.77	0.70	0.67	
Max	1.25	2.24	3.36	1.37	1.77	3.37	2.73	1.53	0.92	0.81	0.74	0.87	3.37
Min	0.61	0.81	0.77	0.81	0.82	1.20	1.16	0.94	0.81	0.74	0.67	0.61	0.61

Annual Max Momentary Gage Height — 4.26 M (A.D), at 13.00 Hours, on Sep 26, 1996

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed 0.28 M (A.D)

Left Bank Elevation — 6.24 M (A.D)

Right Bank Elevation — 5.15 M (A.D), Drainage Area 471 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	9.90	1.90	3.19	2.77	8.37	15.97	6.36	3.02	2.09	1.70	1.35	
2	1.05	2.60	2.43	3.02	2.17	6.50	19.82	6.22	3.02	2.00	1.70	1.35	
3	1.05	13.70	2.94	3.28	2.17	8.20	15.05	5.80	3.02	2.00	1.65	1.30	
4	1.35	8.71	2.94	3.02	2.17	12.90	12.70	12.50	3.02	2.00	1.65	1.25	
5	1.90	30.66	2.09	2.85	2.43	27.79	26.65	9.05	2.94	2.00	1.60	1.25	
6	3.36	5.52	1.85	2.77	2.43	20.62	27.51	7.86	2.85	2.00	1.60	1.25	
7	1.65	9.90	2.00	2.85	2.51	13.30	46.69	7.52	2.77	1.95	1.60	1.25	
8	1.35	3.62	2.09	2.85	3.11	17.35	24.65	5.94	2.77	1.95	1.55	1.25	
9	1.20	3.62	2.51	2.77	2.34	15.28	21.15	5.52	2.77	1.95	1.55	1.25	
10	1.15	7.18	1.85	2.60	2.17	18.27	20.36	5.24	2.77	1.90	1.50	1.25	
11	1.10	7.35	2.94	2.51	2.34	12.90	15.74	5.10	2.68	1.90	1.50	1.25	
12	1.05	4.82	5.24	2.34	5.94	12.70	13.70	4.96	2.68	1.90	1.50	1.25	
13	1.10	3.36	3.62	4.40	9.90	32.40	12.50	7.52	2.60	1.90	1.50	1.20	
14	4.12	6.84	2.68	2.17	13.10	43.58	11.70	5.10	2.60	1.90	1.50	1.20	
15	3.45	5.94	2.68	2.09	8.88	39.09	10.90	4.68	2.60	1.90	1.50	1.20	
16	3.28	5.38	3.36	2.17	9.73	25.22	10.30	4.40	2.60	1.85	1.50	1.30	
17	1.65	2.77	31.24	3.45	5.94	20.88	9.73	4.26	2.51	1.85	1.50	1.30	
18	1.35	3.98	32.40	9.39	4.68	23.53	9.39	4.26	2.51	1.85	1.45	1.25	
19	1.25	14.36	17.35	8.37	4.26	17.12	9.22	4.12	2.43	1.80	1.45	1.20	
20	1.15	8.71	72.30	3.98	5.80	19.03	8.54	3.98	2.43	1.80	1.45	1.10	
21	1.15	8.37	32.69	3.28	3.84	36.68	8.03	3.70	2.34	1.80	1.45	1.05	
22	1.05	8.54	11.10	2.77	3.98	24.94	7.86	3.62	2.34	1.80	1.40	1.05	
23	1.10	9.22	13.90	3.02	3.28	31.53	7.69	3.53	2.26	1.80	1.40	1.05	
24	1.10	3.98	15.28	3.36	3.11	61.94	7.52	3.45	2.26	1.75	1.40	2.60	
25	1.10	2.85	9.22	2.85	12.10	53.34	7.35	3.45	2.26	1.75	1.40	1.95	
26	4.40	2.68	5.94	3.11	13.10	72.77	7.01	3.36	2.17	1.70	1.40	1.40	
27	2.00	2.68	4.82	2.85	10.50	39.44	6.67	3.28	2.17	1.70	1.35	1.55	
28	1.50	2.60	3.98	2.43	6.84	25.51	6.36	3.28	2.17	1.70	1.35	1.90	
29	2.00	2.43	3.62	2.51	6.84	20.88	6.22	3.19	2.09	1.70		1.50	
30	7.35	2.60	3.28	3.45	8.20	17.81	6.08	3.19	2.09	1.70		1.35	
31		2.09		2.77	17.81		5.94		2.09	1.70		1.65	
Total	57.46	206.96	300.24	102.47	184.44	779.87	419.00	154.44	78.83	57.59	42.10	42.05	2425.45 CMSDAY
Mean	1.92	6.68	10.01	3.31	5.95	26.00	13.52	5.15	2.54	1.86	1.50	1.36	6.65 CMS
Max	7.35	30.66	72.30	9.39	17.81	72.77	46.69	12.50	3.02	2.09	1.70	2.60	72.77 CMS
Min	1.05	2.09	1.85	2.09	2.17	6.50	5.94	3.19	2.09	1.70	1.35	1.05	1.05 CMS
Runoff	4.965	17.881	25.941	8.853	15.936	67.381	36.202	13.344	6.811	4.976	3.637	3.633	209.559 MCM

Momentary Peak 138.66 CMS, at 4.26 M (A.D), at 13.00 Hours, on Sep 26, 1996

Runoff Yield 14.11 Liters/Second/Square KM, Momentary Peak Yield 294.395 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

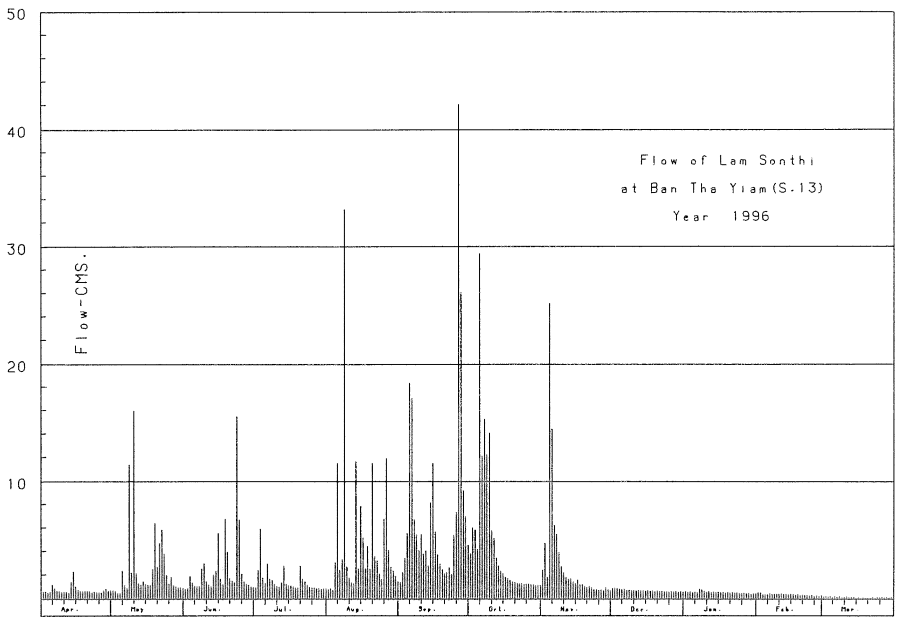
Lam Sonthi at Ban Tha Yiam, Lop Buri (S.13)

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	5-time daily readings at 06.00, 09.00, 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 54 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	0.46	0.51	0.55	0.50	0.69	1.16	0.89	0.53	0.43	0.42	0.31	
2	0.42	0.46	0.51	0.88	0.50	0.86	1.48	1.30	0.52	0.43	0.40	0.30	
3	0.41	0.38	0.80	1.47	0.48	1.08	1.46	0.78	0.53	0.43	0.36	0.30	
4	0.41	0.40	0.68	0.76	1.01	1.41	1.23	3.40	0.50	0.42	0.35	0.30	
5	0.63	0.88	0.59	0.67	2.14	2.80	3.73	2.44	0.50	0.42	0.36	0.30	
6	0.51	0.60	0.56	1.00	0.89	2.68	2.21	1.51	0.50	0.42	0.38	0.30	
7	0.46	0.53	0.58	0.74	1.07	1.58	2.52	1.41	0.48	0.50	0.37	0.30	
8	0.43	2.13	0.91	0.73	4.01	1.40	2.22	1.18	0.47	0.49	0.36	0.30	
9	0.42	0.84	1.01	0.63	0.95	1.21	2.40	0.96	0.47	0.44	0.37	0.29	
10	0.42	2.59	0.70	0.59	0.76	1.40	1.45	0.85	0.47	0.43	0.37	0.29	
11	0.41	0.84	0.61	0.55	0.68	1.15	1.35	0.78	0.47	0.43	0.37	0.29	
12	0.40	0.66	0.58	0.69	0.65	1.21	1.10	0.74	0.47	0.42	0.37	0.29	
13	0.70	0.60	0.82	0.96	2.16	0.96	0.96	0.76	0.47	0.42	0.36	0.28	
14	0.87	0.71	0.87	0.65	0.92	1.78	0.88	0.70	0.46	0.42	0.36	0.28	
15	0.56	0.62	1.42	0.59	1.74	2.15	0.83	0.66	0.46	0.42	0.36	0.27	
16	0.47	0.60	0.74	0.60	1.36	1.43	0.78	0.73	0.46	0.42	0.35	0.27	
17	0.45	0.61	0.64	0.56	0.92	1.15	0.75	0.63	0.46	0.41	0.35	0.26	
18	0.43	0.90	1.58	0.54	1.26	0.99	0.73	0.62	0.45	0.41	0.35	0.26	
19	0.45	1.53	1.19	0.53	0.91	0.91	0.69	0.59	0.45	0.41	0.34	0.27	
20	0.45	0.95	0.75	0.97	2.15	0.83	0.68	0.54	0.45	0.41	0.34	0.27	
21	0.43	1.30	0.71	0.74	1.12	0.85	0.67	0.59	0.45	0.41	0.34	0.27	
22	0.42	1.46	0.69	0.71	1.04	0.94	0.66	0.54	0.44	0.41	0.33	0.27	
23	0.42	1.15	2.54	0.60	0.83	0.83	0.65	0.50	0.44	0.40	0.33	0.27	
24	0.42	0.81	1.57	0.56	0.74	1.39	0.64	0.49	0.43	0.40	0.33	0.27	
25	0.40	0.66	0.83	0.55	1.59	1.66	0.64	0.49	0.43	0.40	0.32	0.28	
26	0.40	0.77	0.70	0.53	2.19	4.60	0.64	0.48	0.43	0.39	0.32	0.28	
27	0.47	0.61	0.65	0.52	1.22	3.47	0.63	0.47	0.43	0.39	0.32	0.28	
28	0.50	0.56	0.60	0.51	0.94	1.90	0.62	0.54	0.43	0.39	0.32	0.28	
29	0.52	0.55	0.57	0.50	0.88	1.61	0.61	0.50	0.43	0.37		0.27	
30	0.52	0.53	0.54	0.50	0.79	1.28	0.60	0.46	0.43	0.38		0.28	
31		0.52		0.51	0.70		0.61		0.43	0.37		0.30	
Mean	0.47	0.85	0.85	0.67	1.20	1.54	1.15	0.88	0.46	0.42	0.35	0.28	
Max	0.87	2.59	2.54	1.47	4.01	4.60	3.73	3.40	0.53	0.50	0.42	0.31	4.60
Min	0.40	0.38	0.51	0.50	0.48	0.69	0.60	0.46	0.43	0.37	0.32	0.26	0.26

Annual Max Momentary Gage Height 5.88 M (A.D), at 21.00 Hours, on Sep 26, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.15 M (A.D)
Left Bank Elevation 8.55 M (A.D)
Right Bank Elevation 8.16 M (A.D), Drainage Area 359 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.66	0.75	0.91	1.03	0.88	1.47	3.89	2.49	0.97	0.66	0.62	0.28	
2	0.62	0.75	0.91	2.44	0.88	2.33	6.10	4.80	0.94	0.66	0.56	0.25	
3	0.59	0.50	2.02	6.02	0.81	3.48	5.95	1.92	0.97	0.66	0.44	0.25	
4	0.59	0.56	1.44	1.81	3.11	5.59	4.31	25.25	0.88	0.62	0.41	0.25	
5	1.28	2.44	1.16	1.41	11.54	18.43	29.51	14.56	0.88	0.62	0.44	0.25	
6	0.91	1.19	1.06	3.06	2.49	17.09	12.20	6.31	0.88	0.62	0.50	0.25	
7	0.75	0.97	1.13	1.71	3.42	6.82	15.38	5.59	0.81	0.88	0.47	0.25	
8	0.66	11.45	2.59	1.66	33.26	5.52	12.31	4.00	0.78	0.84	0.44	0.25	
9	0.62	2.23	3.11	1.28	2.80	4.17	14.15	2.85	0.78	0.69	0.47	0.22	
10	0.62	16.10	1.50	1.16	1.81	5.52	5.88	2.28	0.78	0.66	0.47	0.22	
11	0.59	2.23	1.22	1.03	1.44	3.84	5.16	1.92	0.78	0.66	0.47	0.22	
12	0.56	1.38	1.13	1.47	1.34	4.17	3.58	1.71	0.78	0.62	0.47	0.22	
13	1.50	1.19	2.12	2.85	11.73	2.85	2.85	1.81	0.78	0.62	0.44	0.20	
14	2.38	1.55	2.38	1.34	2.64	8.26	2.44	1.50	0.75	0.62	0.44	0.20	
15	1.06	1.25	5.66	1.16	7.97	11.63	2.18	1.38	0.75	0.62	0.44	0.18	
16	0.78	1.19	1.71	1.19	5.23	5.74	1.92	1.66	0.75	0.62	0.41	0.18	
17	0.72	1.22	1.31	1.06	2.64	3.84	1.76	1.28	0.75	0.59	0.41	0.15	
18	0.66	2.54	6.82	1.00	4.52	3.01	1.66	1.25	0.72	0.59	0.41	0.15	
19	0.72	6.46	4.05	0.97	2.59	2.59	1.47	1.16	0.72	0.59	0.38	0.18	
20	0.72	2.80	1.76	2.90	11.63	2.18	1.44	1.00	0.72	0.59	0.38	0.18	
21	0.66	4.80	1.55	1.71	3.68	2.28	1.41	1.16	0.72	0.59	0.38	0.18	
22	0.62	5.95	1.47	1.55	3.27	2.75	1.38	1.00	0.69	0.59	0.34	0.18	
23	0.62	3.84	15.59	1.19	2.18	2.18	1.34	0.88	0.69	0.56	0.34	0.18	
24	0.62	2.07	6.74	1.06	1.71	5.45	1.31	0.84	0.66	0.56	0.34	0.18	
25	0.56	1.38	2.18	1.03	6.89	7.39	1.31	0.84	0.66	0.56	0.31	0.20	
26	0.56	1.86	1.50	0.97	12.01	42.21	1.31	0.81	0.66	0.53	0.31	0.20	
27	0.78	1.22	1.34	0.94	4.24	26.14	1.28	0.78	0.66	0.53	0.31	0.20	
28	0.88	1.06	1.19	0.91	2.75	9.30	1.25	1.00	0.66	0.53	0.31	0.20	
29	0.94	1.03	1.09	0.88	2.44	7.03	1.22	0.88	0.66	0.47		0.18	
30	0.94	0.97	1.00	0.88	1.97	4.66	1.19	0.75	0.66	0.50		0.20	
31		0.94		0.91	1.50		1.22		0.66	0.47		0.25	
Total	24.17	83.87	77.64	48.58	155.37	227.92	148.36	93.66	23.55	18.92	11.71	6.48	920.23 CMSDAY
Mean	0.81	2.71	2.59	1.57	5.01	7.60	4.79	3.12	0.76	0.61	0.42	0.21	2.52 CMS
Max	2.38	16.10	15.59	6.02	33.26	42.21	29.51	25.25	0.97	0.88	0.62	0.28	42.21 CMS
Min	0.56	0.50	0.91	0.88	0.81	1.47	1.19	0.75	0.66	0.47	0.31	0.15	0.15 CMS
Runoff	2.088	7.246	6.708	4.197	13.424	19.692	12.818	8.092	2.035	1.635	1.012	0.560	79.508 MCM

Momentary Peak 63.55 CMS, at 5.88 M (A.D), at 21.00 Hours, on Sep 26, 1996

Runoff Yield 7.02 Liters/Second/Square KM, Momentary Peak Yield 177.020 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

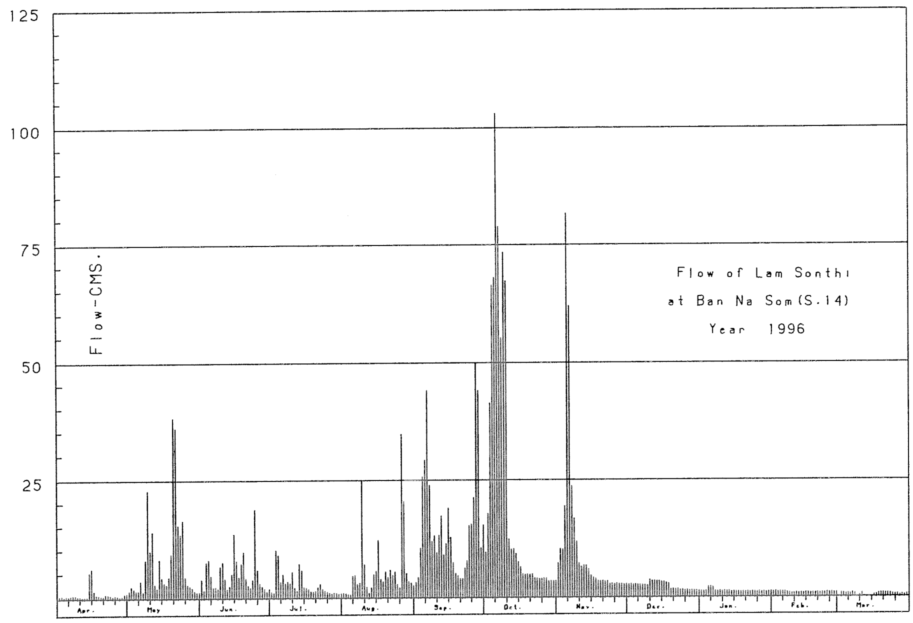
Lam Sonthi at Ban Na Som, Lop Buri (S.14)

Location	Lat. 15°-13′-24″ N., Long. 101°-16′-51″ E., on right bank at the bridge on road, Ban Na Som, 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	+11.537 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Stage-discharge relation defined by 28 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	1.87	2.27	1.79	1.73	2.15	2.92	2.68	2.08	1.80	1.77	1.32	
2	1.56	2.01	1.88	1.76	1.72	2.32	3.70	3.00	2.08	1.80	1.77	1.70	
3	1.49	1.94	2.70	2.98	1.64	3.03	5.18	3.00	2.07	1.80	1.77	1.68	
4	1.54	1.83	2.77	2.88	1.64	4.29	6.38	3.82	2.07	1.98	1.77	1.64	
5	1.54	1.86	2.38	2.19	2.37	4.52	6.45	7.01	2.06	1.98	1.77	1.64	
6	1.56	2.21	1.98	2.42	2.38	5.31	7.71	6.18	2.06	1.96	1.76	1.64	
7	1.63	1.82	1.99	2.14	2.10	4.18	6.90	4.16	2.05	1.80	1.74	1.70	
8	1.59	2.76	1.95	2.20	2.14	3.16	5.86	3.60	2.04	1.80	1.70	1.68	
9	1.54	4.10	2.61	2.15	4.24	3.28	6.68	3.16	2.04	1.80	1.70	1.20	
10	1.50	2.96	2.72	2.47	2.65	2.92	6.42	2.67	2.23	1.80	1.70	1.52	
11	1.48	3.36	2.30	1.96	1.99	3.28	3.20	2.60	2.21	1.80	1.70	1.70	
12	1.50	2.11	1.91	1.86	1.75	3.65	3.00	2.62	2.20	1.80	1.70	1.39	
13	1.50	1.94	2.04	2.67	1.97	2.87	3.00	2.63	2.20	1.80	1.70	1.21	
14	2.48	2.78	2.42	2.53	2.40	3.11	2.90	2.53	2.19	1.77	1.70	1.32	
15	2.56	2.33	3.32	2.00	2.51	3.80	2.70	2.37	2.17	1.77	1.71	1.40	
16	1.84	2.15	2.74	1.95	3.20	3.25	2.60	2.30	2.16	1.77	1.71	1.50	
17	1.65	2.10	2.34	1.92	2.28	2.69	2.40	2.28	2.14	1.77	1.71	1.60	
18	1.59	2.33	2.69	1.81	2.19	2.44	2.40	2.20	2.10	1.77	1.71	1.66	
19	1.57	2.89	2.94	1.81	2.48	2.36	2.40	2.20	1.90	1.77	1.72	1.70	
20	1.54	5.02	2.30	1.83	2.33	2.27	2.40	2.20	1.89	1.77	1.72	1.70	
21	1.67	4.91	2.05	1.97	2.54	2.29	2.40	2.19	1.89	1.77	1.71	1.70	
22	1.66	3.49	1.97	2.12	2.38	2.58	2.30	2.18	1.89	1.77	1.72	1.68	
23	1.59	3.30	2.25	1.93	2.49	2.73	2.28	2.10	1.86	1.77	1.73	1.68	
24	1.54	3.57	3.78	1.83	2.09	3.46	2.28	2.10	1.86	1.77	1.74	1.61	
25	1.57	2.35	2.54	1.79	1.98	3.50	2.28	2.10	1.85	1.77	1.74	1.60	
26	1.54	2.08	2.12	1.76	4.84	3.97	2.28	2.10	1.84	1.77	1.74	1.60	
27	1.51	2.04	2.03	1.72	3.91	5.60	2.28	2.10	1.84	1.76	1.72	1.58	
28	1.50	1.95	1.92	1.74	2.44	5.31	2.20	2.08	1.83	1.76	1.72	1.58	
29	1.70	1.85	1.82	1.74	2.18	3.03	2.20	2.08	1.83	1.76		1.56	
30	1.71	1.76	1.92	1.66	2.15	3.47	2.20	2.08	1.82	1.76		1.60	
31		1.79		1.73	2.03		2.20		1.82	1.76		1.60	
Mean	1.64	2.56	2.35	2.04	2.41	3.36	3.55	2.81	2.01	1.80	1.73	1.57	
Max	2.56	5.02	3.78	2.98	4.84	5.60	7.71	7.01	2.23	1.98	1.77	1.70	7.71
Min	1.48	1.76	1.82	1.66	1.64	2.15	2.20	2.08	1.82	1.76	1.70	1.20	1.20

Annual Max Momentary Gage Height 7.80 M (A.D), at 18.00 Hours, on Oct 6, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.63 M (A.D)
Left Bank Elevation 11.51 M (A.D)
Right Bank Elevation 11.51 M (A.D), Drainage Area 1247 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	1.75	4.09	1.36	1.12	3.31	9.66	7.44	2.91	1.40	1.28	0.17	
2	0.60	2.51	1.80	1.24	1.08	4.45	18.06	10.40	2.91	1.40	1.28	1.00	
3	0.43	2.12	7.63	10.22	0.82	10.71	41.51	10.40	2.85	1.40	1.28	0.94	
4	0.55	1.55	8.27	9.29	0.82	25.75	66.60	19.46	2.85	2.34	1.28	0.82	
5	0.55	1.70	4.90	3.54	4.82	29.45	68.14	81.69	2.79	2.34	1.28	0.82	
6	0.60	3.67	2.34	5.20	4.90	44.12	103.17	62.18	2.79	2.23	1.24	0.82	
7	0.79	1.50	2.40	3.26	3.02	24.13	78.98	23.86	2.74	1.40	1.16	1.00	
8	0.68	8.18	2.18	3.60	3.26	12.04	55.26	16.90	2.68	1.40	1.00	0.94	
9	0.55	23.05	6.79	3.31	25.00	13.33	73.57	12.04	2.68	1.40	1.00	0.05	
10	0.45	10.03	7.81	5.58	7.16	9.66	67.48	7.35	3.81	1.40	1.00	0.50	
11	0.41	14.22	4.30	2.23	2.40	13.33	12.45	6.70	3.67	1.40	1.00	1.00	
12	0.45	3.08	1.95	1.70	1.20	17.48	10.40	6.88	3.60	1.40	1.00	0.24	
13	0.45	2.12	2.68	7.35	2.29	9.20	10.40	6.98	3.60	1.40	1.00	0.06	
14	5.65	8.36	5.20	6.07	5.05	11.53	9.48	6.07	3.54	1.28	1.00	0.17	
15	6.34	4.53	13.77	2.45	5.89	19.22	7.63	4.82	3.43	1.28	1.04	0.25	
16	1.60	3.31	8.00	2.18	12.45	13.00	6.70	4.30	3.37	1.28	1.04	0.45	
17	0.85	3.02	4.60	2.01	4.16	7.53	5.05	4.16	3.26	1.28	1.04	0.70	
18	0.68	4.53	7.53	1.45	3.54	5.35	5.05	3.60	3.02	1.28	1.04	0.88	
19	0.63	9.38	9.85	1.45	5.65	4.75	5.05	3.60	1.90	1.28	1.08	1.00	
20	0.55	38.39	4.30	1.55	4.53	4.09	5.05	3.60	1.85	1.28	1.08	1.00	
21	0.91	36.29	2.74	2.29	6.16	4.23	5.05	3.54	1.85	1.28	1.04	1.00	
22	0.88	15.67	2.29	3.14	4.90	6.52	4.30	3.49	1.85	1.28	1.08	0.94	
23	0.68	13.55	3.95	2.06	5.73	7.90	4.16	3.02	1.70	1.28	1.12	0.94	
24	0.55	16.56	18.99	1.55	2.97	15.34	4.16	3.02	1.70	1.28	1.16	0.73	
25	0.63	4.67	6.16	1.36	2.34	15.78	4.16	3.02	1.65	1.28	1.16	0.70	
26	0.55	2.91	3.14	1.24	35.00	21.31	4.16	3.02	1.60	1.28	1.16	0.70	
27	0.47	2.68	2.62	1.08	20.53	49.97	4.16	3.02	1.60	1.24	1.08	0.65	
28	0.45	2.18	2.01	1.16	5.35	44.12	3.60	2.91	1.55	1.24	1.08	0.65	
29	1.00	1.65	1.50	1.16	3.49	10.71	3.60	2.91	1.55	1.24		0.60	
30	1.04	1.24	2.01	0.88	3.31	15.45	3.60	2.91	1.50	1.24		0.70	
31		1.36		1.12	2.62		3.60		1.50	1.24		0.70	
Total	30.57	245.76	155.80	92.08	191.56	473.76	704.24	333.29	78.30	43.75	31.00	21.12	2401.23 CMSDAY
Mean	1.02	7.93	5.19	2.97	6.18	15.79	22.72	11.11	2.53	1.41	1.11	0.68	6.58 CMS
Max	6.34	38.39	18.99	10.22	35.00	49.97	103.17	81.69	3.81	2.34	1.28	1.00	103.17 CMS
Min	0.41	1.24	1.50	0.88	0.82	3.31	3.60	2.91	1.50	1.24	1.00	0.05	0.05 CMS
Runoff	2.641	21.234	13.461	7.956	16.551	40.933	60.846	28.796	6.765	3.780	2.678	1.825	207.466 MCM

Momentary Peak 106.17 CMS, at 7.80 M (A.D), at 18.00 Hours, on Oct 6, 1996

Runoff Yield 5.28 Liters/Second/Square KM, Momentary Peak Yield 85.140 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

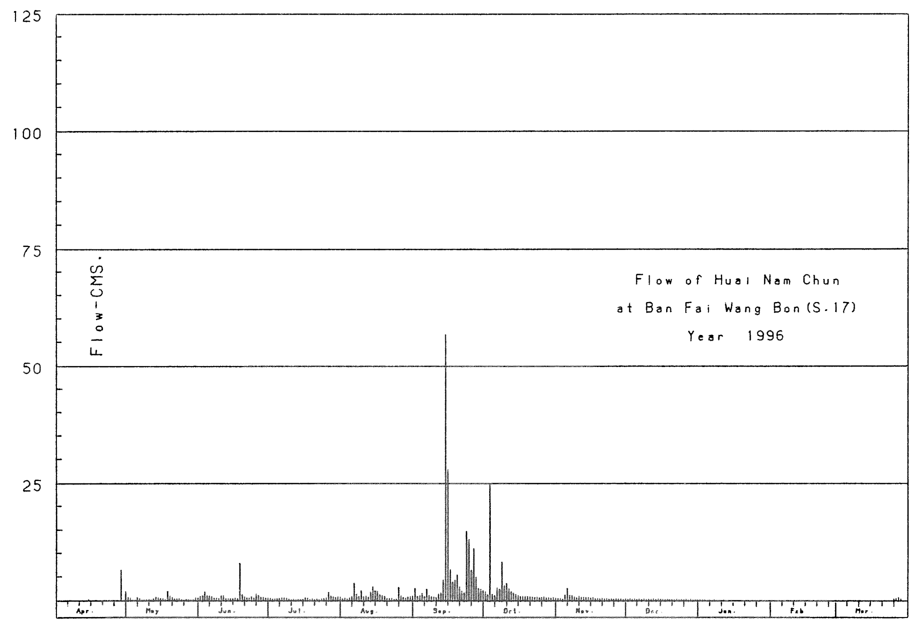
Huai Num Chun at Ban Fai Wang Bon, Phetchabun (S.17)

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 Lan Sak, Phetchabun.
Drainage Area	67 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 right bank at the abutment of the bridge.
Elevation	+6.412 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 - 1990, 1996 to date.
Rated by Float	-
Rated by Current Meter	1979 - 1990, 1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. No peak discharge measurement due to the fluctuate the water level and mostly occured during the night. Stage-discharge relation defined by 20 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.24	0.25	0.19	0.19	0.39	0.34	0.20	0.17	0.15	0.08	0.07	
2	0.05	0.21	0.30	0.18	0.19	0.27	0.31	0.19	0.17	0.15	0.08	0.07	
3	0.05	0.14	0.34	0.17	0.18	0.28	0.90	0.18	0.17	0.14	0.08	0.07	
4	0.10	0.12	0.29	0.20	0.19	0.32	0.31	0.30	0.17	0.14	0.08	0.07	
5	0.10	0.23	0.27	0.20	0.25	0.26	0.30	0.39	0.17	0.14	0.08	0.07	
6	0.12	0.16	0.24	0.20	0.43	0.38	0.39	0.30	0.17	0.14	0.08	0.07	
7	0.08	0.14	0.21	0.21	0.31	0.29	0.38	0.30	0.17	0.14	0.08	0.06	
8	0.08	0.12	0.19	0.18	0.26	0.26	0.57	0.24	0.17	0.14	0.08	0.06	
9	0.07	0.15	0.19	0.16	0.36	0.23	0.41	0.23	0.17	0.13	0.08	0.06	
10	0.07	0.14	0.29	0.15	0.24	0.22	0.43	0.27	0.17	0.12	0.08	0.06	
11	0.07	0.14	0.28	0.15	0.26	0.31	0.38	0.24	0.17	0.12	0.08	0.06	
12	0.07	0.17	0.20	0.15	0.25	0.33	0.35	0.23	0.17	0.12	0.08	0.07	
13	0.06	0.24	0.18	0.15	0.34	0.45	0.33	0.23	0.17	0.11	0.08	0.07	
14	0.17	0.20	0.19	0.15	0.40	1.35	0.31	0.22	0.17	0.12	0.08	0.08	
15	0.07	0.20	0.19	0.16	0.36	0.95	0.29	0.22	0.17	0.12	0.08	0.11	
16	0.05	0.16	0.19	0.22	0.35	0.52	0.27	0.22	0.16	0.12	0.07	0.08	
17	0.07	0.15	0.19	0.19	0.31	0.44	0.26	0.20	0.16	0.11	0.07	0.09	
18	0.04	0.35	0.56	0.16	0.28	0.45	0.26	0.19	0.16	0.10	0.07	0.08	
19	0.04	0.25	0.31	0.16	0.27	0.49	0.25	0.19	0.16	0.10	0.07	0.08	
20	0.04	0.22	0.24	0.16	0.18	0.40	0.25	0.19	0.16	0.10	0.07	0.07	
21	0.04	0.18	0.22	0.15	0.20	0.35	0.24	0.19	0.16	0.10	0.07	0.07	
22	0.04	0.18	0.20	0.15	0.19	0.33	0.24	0.19	0.16	0.10	0.07	0.07	
23	0.02	0.16	0.26	0.16	0.17	0.72	0.23	0.18	0.16	0.10	0.07	0.07	
24	0.02	0.14	0.20	0.19	0.16	0.68	0.23	0.18	0.15	0.10	0.07	0.08	
25	0.02	0.14	0.31	0.20	0.40	0.52	0.24	0.18	0.15	0.08	0.07	0.19	
26	0.02	0.14	0.30	0.34	0.27	0.64	0.23	0.18	0.15	0.08	0.07	0.18	
27	0.13	0.14	0.24	0.27	0.24	0.47	0.22	0.18	0.15	0.08	0.07	0.24	
28	0.52	0.14	0.22	0.23	0.19	0.39	0.21	0.17	0.15	0.10	0.07	0.16	
29	0.13	0.15	0.21	0.23	0.25	0.37	0.21	0.17	0.15	0.10		0.11	
30	0.34	0.21	0.20	0.23	0.25	0.36	0.21	0.17	0.15	0.10		0.12	
31		0.22		0.23	0.27		0.20		0.15	0.09		0.13	
Mean	0.09	0.18	0.25	0.19	0.26	0.45	0.31	0.22	0.16	0.11	0.08	0.09	
Max	0.52	0.35	0.56	0.34	0.43	1.35	0.90	0.39	0.17	0.15	0.08	0.24	1.35
Min	0.02	0.12	0.18	0.15	0.16	0.22	0.20	0.17	0.15	0.08	0.07	0.06	0.02

Annual Max Momentary Gage Height 1.84 M (AD), at 18.00 Hours, on Sep 14, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.19 M (AD)
Left Bank Elevation 6.14 M (AD)
Right Bank Elevation 5.98 M (AD), Drainage Area 67 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.90	0.97	0.59	0.59	2.83	1.98	0.64	0.49	0.39	0.10	0.07	
2	0.02	0.71	1.30	0.54	0.59	1.10	1.47	0.59	0.49	0.39	0.10	0.07	
3	0.02	0.34	1.98	0.49	0.54	1.17	25.00	0.54	0.49	0.34	0.10	0.07	
4	0.14	0.24	1.23	0.64	0.59	1.64	1.47	1.30	0.49	0.34	0.10	0.07	
5	0.14	0.84	1.10	0.64	0.97	1.04	1.30	2.83	0.49	0.34	0.10	0.07	
6	0.24	0.44	0.90	0.64	3.90	2.66	2.83	1.30	0.49	0.34	0.10	0.07	
7	0.10	0.34	0.71	0.71	1.47	1.23	2.66	1.30	0.49	0.34	0.10	0.05	
8	0.10	0.24	0.59	0.54	1.04	1.04	8.45	0.90	0.49	0.34	0.10	0.05	
9	0.07	0.39	0.59	0.44	2.32	0.84	3.30	0.84	0.49	0.29	0.10	0.05	
10	0.07	0.34	1.23	0.39	0.90	0.77	3.90	1.10	0.49	0.24	0.10	0.05	
11	0.07	0.34	1.17	0.39	1.04	1.47	2.66	0.90	0.49	0.24	0.10	0.05	
12	0.07	0.49	0.64	0.39	0.97	1.81	2.15	0.84	0.49	0.24	0.10	0.07	
13	0.05	0.90	0.54	0.39	1.98	4.50	1.81	0.84	0.49	0.19	0.10	0.07	
14	0.49	0.64	0.59	0.39	3.00	57.00	1.47	0.77	0.49	0.24	0.10	0.10	
15	0.07	0.64	0.59	0.44	2.32	28.00	1.23	0.77	0.49	0.24	0.10	0.19	
16	0.02	0.44	0.59	0.77	2.15	6.70	1.10	0.77	0.44	0.24	0.07	0.10	
17	0.07	0.39	0.59	0.59	1.47	4.20	1.04	0.64	0.44	0.19	0.07	0.12	
18	0.00	2.15	8.10	0.44	1.17	4.50	1.04	0.59	0.44	0.14	0.07	0.10	
19	0.00	0.97	1.47	0.44	1.10	5.70	0.97	0.59	0.44	0.14	0.07	0.10	
20	0.00	0.77	0.90	0.44	0.54	3.00	0.97	0.59	0.44	0.14	0.07	0.07	
21	0.00	0.54	0.77	0.39	0.64	2.15	0.90	0.59	0.44	0.14	0.07	0.07	
22	0.00	0.54	0.64	0.39	0.59	1.81	0.90	0.59	0.44	0.14	0.07	0.07	
23	0.00	0.44	1.04	0.44	0.49	15.00	0.84	0.54	0.44	0.14	0.07	0.07	
24	0.00	0.34	0.64	0.59	0.44	13.10	0.84	0.54	0.39	0.14	0.07	0.10	
25	0.00	0.34	1.47	0.64	3.00	6.70	0.90	0.54	0.39	0.10	0.07	0.59	
26	0.00	0.34	1.30	1.98	1.10	11.30	0.84	0.54	0.39	0.10	0.07	0.54	
27	0.29	0.34	0.90	1.10	0.90	5.10	0.77	0.54	0.39	0.10	0.07	0.90	
28	6.70	0.34	0.77	0.84	0.59	2.83	0.71	0.49	0.39	0.14	0.07	0.44	
29	0.29	0.39	0.71	0.84	0.97	2.49	0.71	0.49	0.39	0.14		0.19	
30	1.98	0.71	0.64	0.84	0.97	2.32	0.71	0.49	0.39	0.14		0.24	
31		0.77		0.84	1.10		0.64		0.39	0.12		0.29	
Total	11.07	17.60	34.66	19.19	39.44	194.00	75.56	23.99	13.99	6.75	2.41	5.09	443.75 CMSDAY
Mean	0.37	0.57	1.16	0.62	1.27	6.47	2.44	0.80	0.45	0.22	0.09	0.16	1.22 CMS
Max	6.70	2.15	8.10	1.98	3.90	57.00	25.00	2.83	0.49	0.39	0.10	0.90	57.00 CMS
Min	0.00	0.24	0.54	0.39	0.44	0.77	0.64	0.49	0.39	0.10	0.07	0.05	0.00 CMS
Runoff	0.956	1.521	2.995	1.658	3.408	16.762	6.528	2.073	1.209	0.583	0.208	0.440	38.340 MCM

Momentary Peak 102.80 CMS, at 1.84 M (AD), at 18.00 Hours, on Sep 14, 1996

Runoff Yield 18.15 Liters/Second/Square KM, Momentary Peak Yield 1534.328 Liters/Second/Square KM

WATER YEAR 1996

PASAK RIVER BASIN

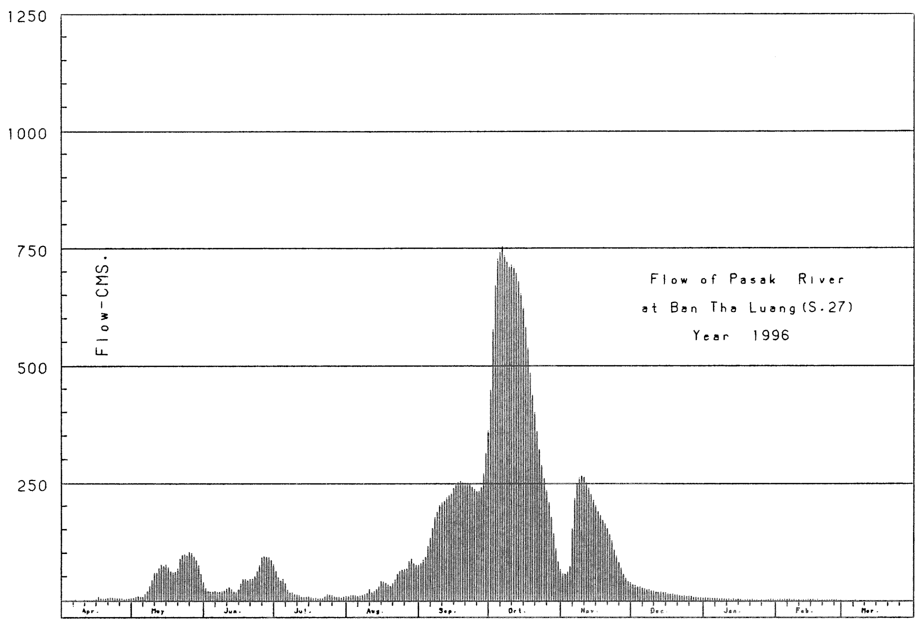
Pasak River at Ban Tha Luang, Lop Buri.(S.27)

Location	Lat. 15°-03′-58″ N., Long. 101°-05′-35″ E., on left bank about 50 meters upstream from the bridge at Ban Tha Luang, Amphoe Tha Luang, Lop Buri.
Drainage Area	8,216 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 aboyt 20 meters from the top staff gage.
Elevation	+16.460 m.(A.D.)
Gage Reading Frequency	5 - time daily readings at 06.00, 09.00, 12.00, 15.00, 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 15.26 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 87 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.60	2.08	4.15	1.00	4.85	13.56	3.88	2.69	0.65	0.36	0.20	
2	0.22	0.79	1.74	3.48	1.13	5.09	14.60	3.88	2.51	0.64	0.38	0.20	
3	0.22	0.96	1.58	3.20	1.22	5.38	15.25	4.05	2.38	0.61	0.38	0.20	
4	0.20	0.74	1.68	3.33	1.12	6.16	15.59	4.60	2.29	0.57	0.38	0.21	
5	0.23	0.84	1.75	2.85	0.98	6.78	15.67	7.34	2.22	0.56	0.36	0.19	
6	0.28	1.27	1.58	1.87	1.02	7.36	15.74	9.13	2.04	0.53	0.36	0.19	
7	0.26	1.75	1.62	1.61	1.22	7.99	15.63	9.93	1.98	0.49	0.34	0.18	
8	0.26	2.38	1.76	1.52	1.26	8.34	15.56	10.24	1.93	0.48	0.34	0.18	
9	0.24	3.25	1.84	1.34	1.50	8.71	15.49	10.34	1.83	0.46	0.32	0.17	
10	0.24	3.92	2.06	1.22	1.96	8.90	15.51	10.24	1.74	0.45	0.32	0.16	
11	0.22	3.98	2.31	1.16	1.59	9.03	15.49	10.00	1.67	0.43	0.32	0.14	
12	0.22	4.43	1.94	0.88	1.70	9.20	15.41	9.68	1.63	0.42	0.33	0.13	
13	0.19	4.66	1.71	0.74	2.05	9.32	15.30	9.37	1.62	0.41	0.33	0.13	
14	0.24	4.59	1.57	0.89	2.39	9.47	15.13	9.04	1.59	0.40	0.33	0.12	
15	0.41	4.67	1.92	0.92	3.13	9.69	14.94	8.71	1.51	0.38	0.33	0.12	
16	0.78	4.42	2.73	0.67	2.98	9.90	14.65	8.39	1.41	0.38	0.32	0.12	
17	0.51	4.11	3.36	0.59	2.90	10.01	14.32	8.11	1.39	0.37	0.33	0.11	
18	0.43	3.94	3.30	0.57	2.58	10.02	13.90	7.88	1.33	0.36	0.32	0.11	
19	0.51	4.06	3.21	0.52	2.48	9.98	13.46	7.62	1.27	0.35	0.30	0.10	
20	0.63	4.32	3.30	0.47	2.78	9.94	12.96	7.35	1.22	0.34	0.30	0.11	
21	0.65	5.22	3.34	0.47	3.26	9.94	12.32	7.00	1.17	0.32	0.31	0.12	
22	0.62	5.55	3.64	0.94	3.85	9.88	11.60	6.56	1.09	0.30	0.32	0.13	
23	0.61	5.52	4.14	1.28	4.08	9.75	10.88	5.96	1.05	0.28	0.32	0.14	
24	0.53	5.50	4.65	1.25	4.25	9.61	10.22	5.46	1.00	0.28	0.32	0.15	
25	0.47	5.74	5.30	1.12	4.27	9.52	9.56	4.92	0.96	0.30	0.30	0.16	
26	0.43	5.67	5.45	0.96	4.37	9.52	8.88	4.38	0.93	0.30	0.28	0.16	
27	0.40	5.42	5.40	0.82	5.01	9.74	8.06	3.85	0.83	0.31	0.26	0.17	
28	0.39	5.10	5.32	0.75	5.19	10.43	7.05	3.43	0.75	0.35	0.24	0.16	
29	0.44	4.60	5.12	0.69	4.82	11.44	6.00	3.13	0.71	0.38		0.16	
30	0.53	3.86	4.72	0.84	4.63	12.32	5.01	2.91	0.67	0.40		0.15	
31		2.92		0.96	4.66		4.29		0.66	0.38		0.14	
Mean	0.39	3.70	3.00	1.36	2.75	8.94	12.65	6.91	1.49	0.42	0.33	0.15	
Max	0.78	5.74	5.45	4.15	5.19	12.32	15.74	10.34	2.69	0.65	0.38	0.21	15.74
Min	0.19	0.60	1.57	0.47	0.98	4.85	4.29	2.91	0.66	0.28	0.24	0.10	0.10

Annual Max Momentary Gage Height 15.90 M (A.D), at 6.00 Hours, on Oct 6, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.22 M (A.D)
Left Bank Elevation 15.25 M (A.D)
Right Bank Elevation 15.74 M (A.D), Drainage Area 8126 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.3	6.2	25.9	64.2	10.4	80.9	450.2	58.1	35.2	6.7	3.7	2.0	
2	2.3	8.2	20.7	49.3	11.8	86.8	577.2	58.1	32.5	6.6	3.9	2.0	
3	2.3	10.0	18.3	43.6	12.8	94.1	673.1	61.9	30.5	6.3	3.9	2.0	
4	2.0	7.7	19.8	46.2	11.7	115.8	728.4	74.8	29.1	5.9	3.9	2.1	
5	2.4	8.7	20.9	37.7	10.2	134.9	743.3	154.5	28.1	5.8	3.7	1.9	
6	2.9	13.6	18.3	22.7	10.6	155.2	756.7	218.3	25.3	5.5	3.7	1.9	
7	2.7	20.9	18.9	18.8	12.8	177.4	735.7	250.6	24.4	5.1	3.5	1.8	
8	2.7	30.5	21.0	17.4	13.4	189.8	723.5	263.2	23.6	5.0	3.5	1.8	
9	2.5	44.6	22.3	14.6	17.1	202.8	712.1	267.2	22.1	4.8	3.3	1.7	
10	2.5	59.0	25.6	12.8	24.1	209.5	715.4	263.2	20.7	4.7	3.3	1.6	
11	2.3	60.3	29.4	12.1	18.5	214.2	712.1	253.5	19.7	4.5	3.3	1.4	
12	2.3	70.7	23.8	9.2	20.1	221.1	699.1	240.5	19.1	4.3	3.4	1.3	
13	1.9	76.3	20.3	7.7	25.5	226.0	681.3	228.0	18.9	4.2	3.4	1.3	
14	2.5	74.6	18.1	9.3	30.7	232.0	654.2	214.6	18.5	4.1	3.4	1.2	
15	4.2	76.5	23.5	9.6	42.1	240.9	625.5	202.8	17.2	3.9	3.4	1.2	
16	8.1	70.5	35.9	7.0	39.7	249.4	584.3	191.5	15.7	3.9	3.3	1.2	
17	5.3	63.2	46.8	6.1	38.4	253.9	539.0	181.6	15.4	3.8	3.4	1.1	
18	4.5	59.5	45.6	5.9	33.6	254.3	486.5	173.5	14.5	3.7	3.3	1.1	
19	5.3	62.1	43.8	5.4	32.0	252.7	440.7	164.4	13.6	3.6	3.1	1.0	
20	6.5	68.1	45.6	4.9	36.6	251.0	401.5	154.9	12.8	3.5	3.1	1.1	
21	6.7	90.1	46.4	4.9	44.8	251.0	362.4	142.5	12.2	3.3	3.2	1.2	
22	6.4	98.6	52.8	9.8	57.5	248.6	323.5	128.1	11.3	3.1	3.3	1.3	
23	6.3	97.8	63.9	13.7	62.6	243.4	289.1	110.0	10.9	2.9	3.3	1.4	
24	5.5	97.2	76.0	13.3	66.5	237.7	262.4	96.2	10.4	2.9	3.3	1.5	
25	4.9	103.6	92.1	11.7	67.0	234.0	235.7	82.6	10.0	3.1	3.1	1.6	
26	4.5	101.7	95.9	10.0	69.3	234.0	208.8	69.5	9.7	3.1	2.9	1.6	
27	4.1	95.1	94.6	8.5	84.8	243.0	179.9	57.5	8.6	3.2	2.7	1.7	
28	4.0	87.0	92.6	7.8	89.3	270.9	144.3	48.3	7.8	3.6	2.5	1.6	
29	4.6	74.8	87.5	7.2	80.2	315.3	111.1	42.1	7.4	3.9		1.6	
30	5.5	57.7	77.7	8.7	75.6	362.4	84.8	38.6	7.0	4.1		1.5	
31		38.8		10.0	76.3		67.4		6.9	3.9		1.4	
Total	120.0	1833.6	1324.0	510.1	1226.0	6483.0	14909.2	4490.6	539.1	133.0	93.8	47.1	31709.5 CMSDAY
Mean	4.0	59.1	44.1	16.5	39.5	216.1	480.9	149.7	17.4	4.3	3.4	1.5	86.9 CMS
Max	8.1	103.6	95.9	64.2	89.3	362.4	756.7	267.2	35.2	6.7	3.9	2.1	756.7 CMS
Min	1.9	6.2	18.1	4.9	10.2	80.9	67.4	38.6	6.9	2.9	2.5	1.0	1.0 CMS
Runoff	10.37	158.42	114.39	44.07	105.93	560.13	1288.15	387.99	46.58	11.49	8.10	4.07	2739.70 MCM

Momentary Peak 787.67 CMS, at 15.90 M (A.D), at 6.00 Hours, on Oct 6, 1996

Runoff Yield 10.69 Liters/Second/Square KM, Momentary Peak Yield 96.932 Liters/Second/Square KM

WATER YEAR 1996

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, Amphoe Chai Badan, Lop Buri.

Drainage Area — 381 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 — +7.083 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 good. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

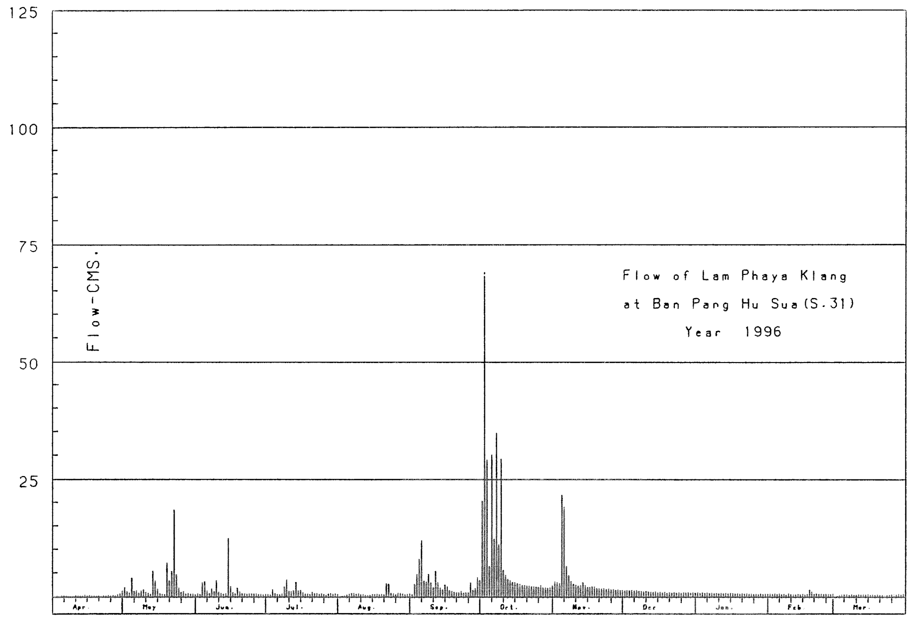
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	0.40	0.25	0.22	0.16	0.23	1.69	0.50	0.35	0.30	0.25	0.16	
2	0.16	0.33	0.24	0.22	0.17	0.47	3.99	0.49	0.35	0.30	0.25	0.15	
3	0.16	0.27	0.48	0.37	0.16	0.62	2.23	0.47	0.35	0.29	0.25	0.20	
4	0.16	0.57	0.51	0.28	0.22	0.87	0.76	1.77	0.35	0.29	0.25	0.22	
5	0.18	0.33	0.34	0.22	0.23	1.13	2.30	1.60	0.35	0.29	0.25	0.22	
6	0.17	0.34	0.29	0.23	0.29	0.52	1.16	0.76	0.35	0.29	0.24	0.22	
7	0.17	0.29	0.38	0.24	0.27	0.50	2.58	0.61	0.34	0.28	0.24	0.22	
8	0.17	0.33	0.33	0.42	0.25	0.62	1.07	0.51	0.33	0.28	0.23	0.22	
9	0.17	0.37	0.52	0.53	0.25	0.49	2.25	0.47	0.33	0.28	0.26	0.22	
10	0.17	0.30	0.32	0.34	0.23	0.41	0.70	0.45	0.33	0.28	0.23	0.22	
11	0.18	0.27	0.27	0.32	0.22	0.68	0.61	0.44	0.33	0.28	0.23	0.22	
12	0.18	0.24	0.25	0.35	0.21	0.49	0.55	0.44	0.31	0.28	0.23	0.22	
13	0.18	0.68	0.26	0.50	0.18	0.40	0.52	0.50	0.32	0.27	0.23	0.22	
14	0.20	0.51	1.17	0.34	0.21	0.37	0.50	0.44	0.32	0.27	0.23	0.22	
15	0.18	0.37	0.42	0.36	0.22	0.46	0.49	0.42	0.31	0.27	0.23	0.22	
16	0.18	0.27	0.30	0.30	0.25	0.42	0.48	0.41	0.31	0.27	0.23	0.21	
17	0.18	0.23	0.26	0.26	0.24	0.36	0.46	0.43	0.31	0.27	0.23	0.21	
18	0.17	0.23	0.40	0.25	0.23	0.33	0.45	0.42	0.31	0.26	0.37	0.21	
19	0.17	0.80	0.32	0.24	0.23	0.32	0.44	0.40	0.30	0.26	0.32	0.21	
20	0.17	0.52	0.27	0.31	0.23	0.30	0.44	0.39	0.30	0.26	0.26	0.21	
21	0.17	0.67	0.25	0.28	0.47	0.31	0.43	0.39	0.30	0.26	0.25	0.20	
22	0.17	1.57	0.25	0.26	0.47	0.33	0.43	0.39	0.30	0.26	0.25	0.19	
23	0.18	0.63	0.24	0.25	0.29	0.30	0.42	0.38	0.30	0.26	0.24	0.19	
24	0.18	0.40	0.27	0.25	0.25	0.30	0.42	0.38	0.30	0.26	0.24	0.19	
25	0.18	0.32	0.26	0.24	0.24	0.31	0.42	0.37	0.30	0.25	0.24	0.22	
26	0.18	0.32	0.24	0.25	0.28	0.48	0.44	0.37	0.30	0.24	0.24	0.22	
27	0.18	0.26	0.24	0.25	0.29	0.36	0.41	0.36	0.30	0.24	0.24	0.22	
28	0.21	0.26	0.23	0.25	0.24	0.39	0.40	0.36	0.30	0.25	0.24	0.24	
29	0.26	0.25	0.22	0.24	0.23	0.57	0.40	0.35	0.30	0.25		0.22	
30	0.33	0.24	0.22	0.24	0.24	0.53	0.40	0.35	0.30	0.25		0.24	
31		0.23		0.23	0.24		0.44		0.30	0.25		0.35	
Mean	0.18	0.41	0.33	0.29	0.25	0.46	0.91	0.52	0.32	0.27	0.25	0.22	
Max	0.33	1.57	1.17	0.53	0.47	1.13	3.99	1.77	0.35	0.30	0.37	0.35	3.99
Min	0.16	0.23	0.22	0.22	0.16	0.23	0.40	0.35	0.30	0.24	0.23	0.15	0.15

Annual Max Momentary Gage Height — 5.10 M (A.D), at 21.00 Hours, on Oct 2, 1996

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.39 M (A.D)

Left Bank Elevation — 5.84 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, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	2.00	0.75	0.60	0.30	0.65	20.64	3.30	1.50	1.00	0.75	0.30	
2	0.30	1.30	0.70	0.60	0.35	2.91	69.24	3.17	1.50	1.00	0.75	0.25	
3	0.30	0.85	3.04	1.70	0.30	4.86	29.28	2.91	1.50	0.95	0.75	0.50	
4	0.30	4.21	3.43	0.90	0.60	8.28	6.74	21.92	1.50	0.95	0.75	0.60	
5	0.40	1.30	1.40	0.60	0.65	12.05	30.40	19.20	1.50	0.95	0.75	0.60	
6	0.35	1.40	0.95	0.65	0.95	3.56	12.50	6.74	1.50	0.95	0.70	0.60	
7	0.35	0.95	1.80	0.70	0.85	3.30	35.06	4.73	1.40	0.90	0.70	0.60	
8	0.35	1.30	1.30	2.26	0.75	4.86	11.15	3.43	1.30	0.90	0.65	0.60	
9	0.35	1.70	3.56	3.69	0.75	3.17	29.60	2.91	1.30	0.90	0.80	0.60	
10	0.35	1.00	1.20	1.40	0.65	2.13	5.90	2.65	1.30	0.90	0.65	0.60	
11	0.40	0.85	0.85	1.20	0.60	5.64	4.73	2.52	1.30	0.90	0.65	0.60	
12	0.40	0.70	0.75	1.50	0.55	3.17	3.95	2.52	1.10	0.90	0.65	0.60	
13	0.40	5.64	0.80	3.30	0.40	2.00	3.56	3.30	1.20	0.85	0.65	0.60	
14	0.50	3.43	12.65	1.40	0.55	1.70	3.30	2.52	1.20	0.85	0.65	0.60	
15	0.40	1.70	2.26	1.60	0.60	2.78	3.17	2.26	1.10	0.85	0.65	0.60	
16	0.40	0.85	1.00	1.00	0.75	2.26	3.04	2.13	1.10	0.85	0.65	0.55	
17	0.40	0.65	0.80	0.80	0.70	1.60	2.78	2.39	1.10	0.85	0.65	0.55	
18	0.35	0.65	2.00	0.75	0.65	1.30	2.65	2.26	1.10	0.80	1.70	0.55	
19	0.35	7.30	1.20	0.70	0.65	1.20	2.52	2.00	1.00	0.80	1.20	0.55	
20	0.35	3.56	0.85	1.10	0.65	1.00	2.52	1.90	1.00	0.80	0.80	0.55	
21	0.35	5.51	0.75	0.90	2.91	1.10	2.39	1.90	1.00	0.80	0.75	0.50	
22	0.35	18.72	0.75	0.80	2.91	1.30	2.39	1.90	1.00	0.80	0.75	0.45	
23	0.40	4.99	0.70	0.75	0.95	1.00	2.26	1.80	1.00	0.80	0.70	0.45	
24	0.40	2.00	0.85	0.75	0.75	1.00	2.26	1.80	1.00	0.80	0.70	0.45	
25	0.40	1.20	0.80	0.70	0.70	1.10	2.26	1.70	1.00	0.75	0.70	0.60	
26	0.40	1.20	0.70	0.75	0.90	3.04	2.52	1.70	1.00	0.70	0.70	0.60	
27	0.40	0.80	0.70	0.75	0.95	1.60	2.13	1.60	1.00	0.70	0.70	0.60	
28	0.55	0.80	0.65	0.75	0.70	1.90	2.00	1.60	1.00	0.75	0.70	0.70	
29	0.80	0.75	0.60	0.70	0.65	4.21	2.00	1.50	1.00	0.75		0.60	
30	1.30	0.70	0.60	0.70	0.70	3.69	2.00	1.50	1.00	0.75		0.70	
31		0.65		0.65	0.70		2.52		1.00	0.75		1.50	
Total	12.65	78.66	48.39	34.65	25.07	88.36	307.46	111.76	36.50	26.20	21.20	18.15	809.05 CMSDAY
Mean	0.42	2.54	1.61	1.12	0.81	2.95	9.92	3.73	1.18	0.85	0.76	0.59	2.22 CMS
Max	1.30	18.72	12.65	3.69	2.91	12.05	69.24	21.92	1.50	1.00	1.70	1.50	69.24 CMS
Min	0.30	0.65	0.60	0.60	0.30	0.65	2.00	1.50	1.00	0.70	0.65	0.25	0.25 CMS
Runoff	1.093	6.796	4.181	2.994	2.166	7.634	26.565	9.656	3.154	2.264	1.832	1.568	69.902 MCM

Momentary Peak 126.50 CMS, at 5.10 M (A.D), at 21.00 Hours, on Oct 2, 1996

Runoff Yield 5.82 Liters/Second/Square KM, Momentary Peak Yield 332.021 Liters/Second/Square KM

WATER YEAR 1996

SALAWIN RIVER BASIN

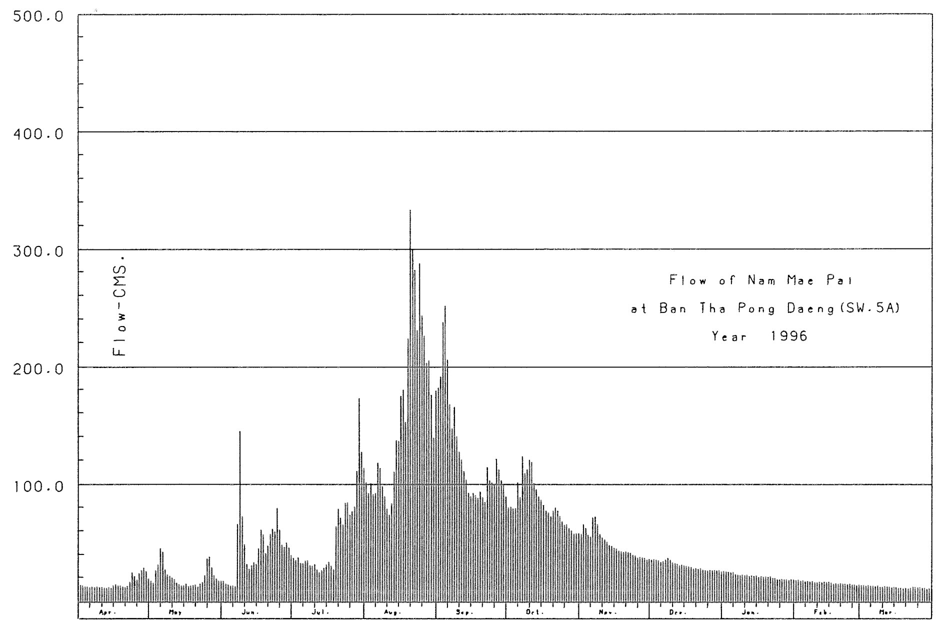
Nam Mae Pai at Ban Tha Pong Daeng, Mae Hong Son (SW.5A)

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	Rather unstable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the weir about 2 kilometers upstream and sand escavation 200 meters downstream from the gage site. Stage-discharge relation defined by 139 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.15	0.15	0.39	0.93	1.64	0.74	0.57	0.38	0.27	0.17	0.10	
2	0.08	0.13	0.12	0.37	0.85	1.69	0.75	0.63	0.38	0.27	0.17	0.09	
3	0.07	0.28	0.10	0.40	0.93	1.95	0.73	0.61	0.38	0.26	0.16	0.09	
4	0.06	0.33	0.09	0.35	0.84	2.02	0.74	0.56	0.37	0.26	0.16	0.09	
5	0.06	0.46	0.08	0.34	0.85	1.78	0.93	0.55	0.36	0.26	0.15	0.09	
6	0.06	0.44	0.08	0.37	1.07	1.55	0.82	0.67	0.36	0.24	0.15	0.08	
7	0.06	0.29	0.63	0.37	1.03	1.42	1.11	0.68	0.38	0.23	0.15	0.08	
8	0.06	0.23	1.27	0.33	0.91	1.54	1.00	0.63	0.39	0.23	0.15	0.08	
9	0.06	0.22	0.68	0.32	0.83	1.37	1.02	0.57	0.38	0.23	0.14	0.07	
10	0.05	0.20	0.49	0.34	0.73	1.28	1.09	0.54	0.35	0.23	0.14	0.07	
11	0.05	0.17	0.34	0.29	0.69	1.23	1.07	0.53	0.35	0.23	0.14	0.07	
12	0.05	0.13	0.29	0.25	0.77	1.16	0.93	0.51	0.34	0.22	0.14	0.07	
13	0.05	0.10	0.33	0.28	1.01	1.10	0.88	0.49	0.33	0.22	0.14	0.06	
14	0.05	0.09	0.35	0.30	1.21	1.01	0.83	0.48	0.33	0.22	0.14	0.06	
15	0.08	0.08	0.34	0.33	1.21	0.98	0.80	0.47	0.33	0.22	0.14	0.06	
16	0.10	0.11	0.46	0.36	1.48	1.01	0.76	0.46	0.32	0.21	0.13	0.05	
17	0.09	0.08	0.60	0.32	1.52	0.99	0.72	0.45	0.32	0.21	0.12	0.05	
18	0.08	0.08	0.56	0.29	1.32	0.97	0.70	0.44	0.31	0.21	0.12	0.04	
19	0.07	0.10	0.43	0.62	1.81	1.02	0.68	0.44	0.30	0.21	0.12	0.04	
20	0.06	0.10	0.48	0.73	2.48	0.98	0.72	0.44	0.30	0.21	0.12	0.04	
21	0.07	0.07	0.57	0.67	2.28	0.94	0.74	0.44	0.30	0.21	0.12	0.04	
22	0.14	0.11	0.60	0.63	2.17	1.04	0.72	0.43	0.30	0.20	0.11	0.04	
23	0.25	0.14	0.58	0.78	1.85	0.95	0.68	0.42	0.29	0.19	0.11	0.07	
24	0.21	0.22	0.74	0.78	2.21	0.93	0.65	0.41	0.28	0.18	0.11	0.06	
25	0.17	0.39	0.60	0.69	1.93	0.92	0.63	0.40	0.28	0.18	0.11	0.06	
26	0.24	0.40	0.49	0.71	1.82	1.09	0.63	0.40	0.28	0.18	0.10	0.05	
27	0.28	0.31	0.47	0.75	1.67	1.02	0.61	0.40	0.28	0.18	0.10	0.05	
28	0.30	0.22	0.50	1.01	1.68	0.95	0.59	0.39	0.28	0.17	0.10	0.04	
29	0.27	0.19	0.47	1.47	1.49	0.91	0.57	0.38	0.28	0.17		0.03	
30	0.18	0.15	0.41	1.14	1.36	0.83	0.57	0.38	0.28	0.17		0.03	
31		0.16		1.03	1.62		0.57		0.27	0.17		0.02	
Mean	0.12	0.20	0.44	0.55	1.37	1.21	0.77	0.49	0.33	0.21	0.13	0.06	
Max	0.30	0.46	1.27	1.47	2.48	2.02	1.11	0.68	0.39	0.27	0.17	0.10	2.48
Min	0.05	0.07	0.08	0.25	0.69	0.83	0.57	0.38	0.27	0.17	0.10	0.02	0.02

Annual Max Momentary Gage Height 2.52 M (A.D), at 9.00 Hours, on Aug 20, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.07 M (A.D)
Left Bank Elevation 7.75 M (A.D)
Right Bank Elevation 5.26 M (A.D), Drainage Area 4466 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.80	17.85	17.85	37.44	101.60	182.80	80.40	58.46	36.48	26.43	19.07	14.80	
2	13.84	16.63	16.02	35.52	92.50	191.30	81.50	66.20	36.48	26.43	19.07	14.32	
3	13.36	27.22	14.80	38.40	101.60	238.50	79.30	63.40	36.48	25.64	18.46	14.32	
4	12.88	31.68	14.32	33.60	91.40	251.80	80.40	57.28	35.52	25.64	18.46	14.32	
5	12.88	45.48	13.84	32.64	92.50	206.60	101.60	56.10	34.56	25.64	17.85	14.32	
6	12.88	43.12	13.84	35.52	119.10	168.00	89.20	71.80	34.56	24.06	17.85	13.84	
7	12.88	28.01	66.20	35.52	113.90	148.00	124.30	73.20	36.48	23.27	17.85	13.84	
8	12.88	23.27	145.80	31.68	99.20	166.40	110.00	66.20	37.44	23.27	17.85	13.84	
9	12.88	22.48	73.20	30.72	90.30	140.80	112.60	58.46	36.48	23.27	17.24	13.36	
10	12.40	20.90	49.02	32.64	79.30	128.20	121.70	54.92	33.60	23.27	17.24	13.36	
11	12.40	19.07	32.64	28.01	74.60	121.20	119.10	53.74	33.60	23.27	17.24	13.36	
12	12.40	16.63	28.01	24.85	83.70	111.80	101.60	51.38	32.64	22.48	17.24	13.36	
13	12.40	14.80	31.68	27.22	111.30	104.00	95.80	49.02	31.68	22.48	17.24	12.88	
14	12.40	14.32	33.60	28.80	137.40	93.20	90.30	47.84	31.68	22.48	17.24	12.88	
15	13.84	13.84	32.64	31.68	137.40	89.60	87.00	46.66	31.68	22.48	17.24	12.88	
16	14.80	15.41	45.48	34.56	175.20	93.20	82.60	45.48	30.72	21.69	16.63	12.40	
17	14.32	13.84	62.00	30.72	181.00	90.80	78.20	44.30	30.72	21.69	16.02	12.40	
18	13.84	13.84	57.28	28.01	152.80	88.40	76.00	43.12	29.76	21.69	16.02	11.92	
19	13.36	14.80	41.94	64.80	224.60	94.40	73.20	43.12	28.80	21.69	16.02	11.92	
20	12.88	14.80	47.84	79.30	333.60	89.60	78.20	43.12	28.80	21.69	16.02	11.92	
21	13.36	13.36	58.46	71.80	299.80	84.80	80.40	43.12	28.80	21.69	16.02	11.92	
22	17.24	15.41	62.00	66.20	282.20	115.20	78.20	41.94	28.80	20.90	15.41	11.92	
23	24.85	17.24	59.64	84.80	231.00	104.00	73.20	40.76	28.01	20.29	15.41	13.36	
24	21.69	22.48	80.40	84.80	288.60	101.60	69.00	39.58	27.22	19.68	15.41	12.88	
25	19.07	37.44	62.00	74.60	243.80	100.40	66.20	38.40	27.22	19.68	15.41	12.88	
26	24.06	38.40	49.02	77.10	226.20	121.70	66.20	38.40	27.22	19.68	14.80	12.40	
27	27.22	29.76	46.66	81.50	203.50	112.60	63.40	38.40	27.22	19.68	14.80	12.40	
28	28.80	22.48	50.20	111.30	205.00	104.00	60.82	37.44	27.22	19.07	14.80	11.92	
29	26.43	20.29	46.66	173.80	176.60	99.20	58.46	36.48	27.22	19.07		11.44	
30	19.68	17.85	39.58	128.20	139.40	90.30	58.46	36.48	27.22	19.07		11.44	
31		18.46		113.90	179.40		58.46		26.43	19.07		10.96	
Total	486.72	681.16	1392.62	1789.63	5068.50	3832.40	2595.80	1484.80	970.74	686.44	469.91	399.76	19858.48 CMSDAY
Mean	16.22	21.97	46.42	57.73	163.50	127.75	83.74	49.49	31.31	22.14	16.78	12.90	54.41 CMS
Max	28.80	45.48	145.80	173.80	333.60	251.80	124.30	73.20	37.44	26.43	19.07	14.80	333.60 CMS
Min	12.40	13.36	13.84	24.85	74.60	84.80	58.46	36.48	26.43	19.07	14.80	10.96	10.96 CMS
Runoff	42.053	58.852	120.322	154.624	437.918	331.119	224.277	128.287	83.872	59.308	40.600	34.539	1715.773 MCM

Momentary Peak 340.60 CMS, at 2.52 M (A.D), at 9.00 Hours, on Aug 20, 1996

Runoff Yield 12.18 Liters/Second/Square KM, Momentary Peak Yield 76.265 Liters/Second/Square KM

WATER YEAR 1996

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 Fairly stable.

Overbank Flow Conditions No overbank flow.

General Description Records fair. Stage-discharge relation defined by 57 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

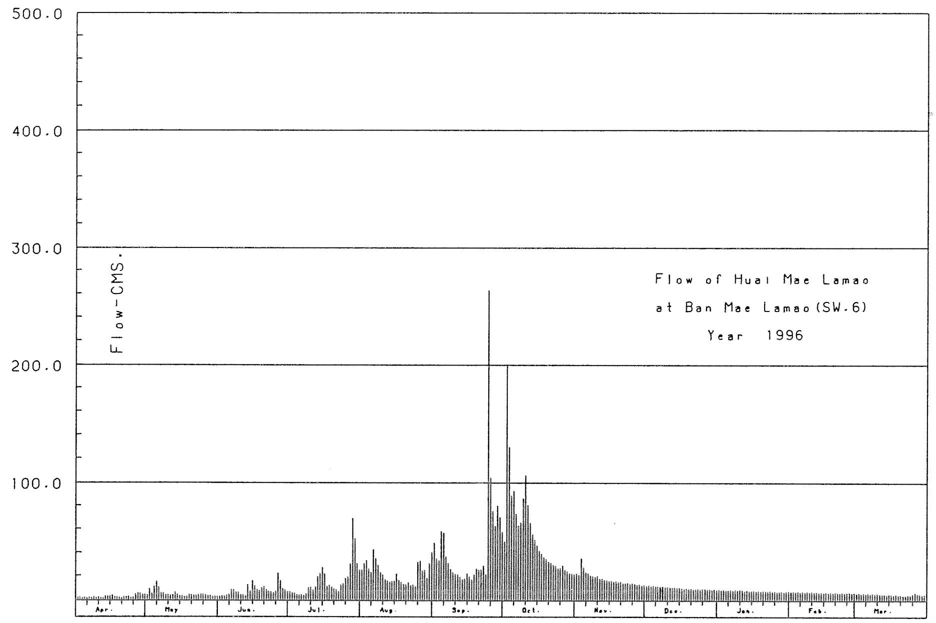
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.60	0.54	0.67	1.29	1.93	1.96	1.19	0.89	0.77	0.70	0.64	
2	0.50	0.78	0.54	0.66	1.43	1.55	4.79	1.17	0.89	0.76	0.70	0.64	
3	0.49	0.64	0.55	0.62	1.52	1.52	3.63	1.58	0.88	0.76	0.70	0.63	
4	0.49	0.85	0.56	0.60	1.30	2.16	2.84	1.34	0.88	0.76	0.70	0.63	
5	0.49	1.01	0.61	0.59	1.23	2.14	2.93	1.23	0.87	0.76	0.69	0.63	
6	0.49	0.83	0.78	0.59	1.77	1.62	2.51	1.19	0.86	0.75	0.69	0.63	
7	0.50	0.66	0.74	0.58	1.57	1.44	2.27	1.15	0.86	0.75	0.69	0.63	
8	0.51	0.63	0.69	0.61	1.39	1.31	2.33	1.12	0.85	0.75	0.69	0.63	
9	0.50	0.60	0.66	0.83	1.23	1.21	2.80	1.12	0.85	0.75	0.69	0.62	
10	0.50	0.58	0.60	0.83	1.15	1.17	3.18	1.13	0.84	0.75	0.68	0.62	
11	0.49	0.56	0.56	0.73	1.06	1.18	2.66	1.08	0.84	0.74	0.68	0.62	
12	0.49	0.58	0.55	0.85	1.01	1.11	2.34	1.07	0.84	0.73	0.68	0.61	
13	0.53	0.69	0.90	1.13	1.00	1.06	2.11	1.05	0.83	0.73	0.67	0.60	
14	0.55	0.59	0.72	1.19	1.00	1.06	1.98	1.03	0.83	0.73	0.67	0.60	
15	0.53	0.56	1.03	1.35	1.02	1.20	1.86	1.02	0.82	0.73	0.67	0.59	
16	0.56	0.54	0.87	1.18	1.18	1.11	1.76	1.01	0.81	0.72	0.66	0.59	
17	0.53	0.52	0.78	0.87	1.04	1.05	1.67	1.00	0.80	0.72	0.66	0.59	
18	0.50	0.53	0.72	0.89	0.97	1.16	1.60	1.00	0.80	0.71	0.66	0.59	
19	0.50	0.61	0.83	0.85	0.93	1.32	1.54	0.99	0.80	0.71	0.66	0.58	
20	0.49	0.57	0.85	0.78	0.90	1.27	1.49	0.98	0.79	0.71	0.66	0.58	
21	0.51	0.58	0.75	0.75	0.96	1.28	1.45	0.97	0.79	0.71	0.66	0.57	
22	0.53	0.57	0.71	0.71	0.90	1.39	1.41	0.96	0.79	0.71	0.66	0.57	
23	0.52	0.58	0.68	0.92	0.90	1.18	1.37	0.95	0.78	0.71	0.66	0.57	
24	0.50	0.62	0.66	0.93	0.87	5.77	1.33	0.94	0.78	0.70	0.65	0.58	
25	0.49	0.59	0.70	1.08	1.46	3.16	1.32	0.94	0.78	0.70	0.65	0.60	
26	0.60	0.58	1.20	1.10	1.51	2.55	1.40	0.93	0.78	0.70	0.65	0.65	
27	0.66	0.57	1.03	1.44	1.27	2.28	1.29	0.92	0.78	0.70	0.65	0.63	
28	0.62	0.55	0.81	2.42	1.27	2.65	1.24	0.91	0.77	0.69	0.65	0.60	
29	0.61	0.54	0.74	2.02	1.09	2.45	1.21	0.90	0.77	0.69		0.59	
30	0.59	0.53	0.71	1.43	1.43	2.15	1.18	0.89	0.77	0.69		0.59	
31		0.52		1.27	1.70		1.17		0.77	0.71		0.66	
Mean	0.53	0.62	0.74	0.98	1.20	1.75	2.02	1.06	0.82	0.73	0.67	0.61	
Max	0.66	1.01	1.20	2.42	1.77	5.77	4.79	1.58	0.89	0.77	0.70	0.66	5.77
Min	0.49	0.52	0.54	0.58	0.87	1.05	1.17	0.89	0.77	0.69	0.65	0.57	0.49

Annual Max Momentary Gage Height 6.42 M (A.D), at 9.00 Hours, on Sep 24, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.11 M (A.D)

Left Bank Elevation 8.84 M (A.D)

Right Bank Elevation 8.42 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	5.00	3.50	6.75	26.15	49.20	50.40	22.65	12.70	9.25	7.50	6.00	
2	2.50	9.50	3.50	6.50	31.05	35.25	200.35	21.95	12.70	9.00	7.50	6.00	
3	2.25	6.00	3.75	5.50	34.20	34.20	130.65	36.30	12.40	9.00	7.50	5.75	
4	2.25	11.50	4.00	5.00	26.50	58.40	89.00	27.90	12.40	9.00	7.50	5.75	
5	2.25	16.35	5.25	4.75	24.05	57.60	93.50	24.05	12.10	9.00	7.25	5.75	
6	2.25	10.90	9.50	4.75	42.95	37.70	73.95	22.65	11.80	8.75	7.25	5.75	
7	2.50	6.50	8.50	4.50	35.95	31.40	63.15	21.25	11.80	8.75	7.25	5.75	
8	2.75	5.75	7.25	5.25	29.65	26.85	65.85	20.20	11.50	8.75	7.25	5.75	
9	2.50	5.00	6.50	10.90	24.05	23.35	87.00	20.20	11.50	8.75	7.25	5.50	
10	2.50	4.50	5.00	10.90	21.25	21.95	106.00	20.55	11.20	8.75	7.00	5.50	
11	2.25	4.00	4.00	8.25	18.10	22.30	80.70	18.80	11.20	8.50	7.00	5.50	
12	2.25	4.50	3.75	11.50	16.35	19.85	66.30	18.45	11.20	8.25	7.00	5.25	
13	3.25	7.25	13.00	20.55	16.00	18.10	56.40	17.75	10.90	8.25	6.75	5.00	
14	3.75	4.75	8.00	22.65	16.00	18.10	51.20	17.05	10.90	8.25	6.75	5.00	
15	3.25	4.00	17.05	28.25	16.70	23.00	46.40	16.70	10.60	8.25	6.75	4.75	
16	4.00	3.50	12.10	22.30	22.30	19.85	42.60	16.35	10.30	8.00	6.50	4.75	
17	3.25	3.00	9.50	12.10	17.40	17.75	39.45	16.00	10.00	8.00	6.50	4.75	
18	2.50	3.25	8.00	12.70	15.10	21.60	37.00	16.00	10.00	7.75	6.50	4.75	
19	2.50	5.25	10.90	11.50	13.90	27.20	34.90	15.70	10.00	7.75	6.50	4.50	
20	2.25	4.25	11.50	9.50	13.00	25.45	33.15	15.40	9.75	7.75	6.50	4.50	
21	2.75	4.50	8.75	8.75	14.80	25.80	31.75	15.10	9.75	7.75	6.50	4.25	
22	3.25	4.25	7.75	7.75	13.00	29.65	30.35	14.80	9.75	7.75	6.50	4.25	
23	3.00	4.50	7.00	13.60	13.00	22.30	28.95	14.50	9.50	7.75	6.50	4.25	
24	2.50	5.50	6.50	13.90	12.10	264.05	27.55	14.20	9.50	7.50	6.25	4.50	
25	2.25	4.75	7.50	18.80	32.10	105.00	27.20	14.20	9.50	7.50	6.25	5.00	
26	5.00	4.50	23.00	19.50	33.85	75.75	30.00	13.90	9.50	7.50	6.25	6.25	
27	6.50	4.25	17.05	31.40	25.45	63.60	26.15	13.60	9.50	7.50	6.25	5.75	
28	5.50	3.75	10.30	69.90	25.45	80.25	24.40	13.30	9.25	7.25	6.25	5.00	
29	5.25	3.50	8.50	52.80	19.15	71.25	23.35	13.00	9.25	7.25		4.75	
30	4.75	3.25	7.75	31.05	31.05	58.00	22.30	12.70	9.25	7.25		4.75	
31		3.00		25.45	40.50		21.95		9.25	7.75		6.50	
Total	94.25	170.50	258.65	517.00	721.10	1384.75	1741.90	545.20	328.95	252.50	190.75	161.50	6367.05 CMSDAY
Mean	3.14	5.50	8.62	16.68	23.26	46.16	56.19	18.17	10.61	8.15	6.81	5.21	17.44 CMS
Max	6.50	16.35	23.00	69.90	42.95	264.05	200.35	36.30	12.70	9.25	7.50	6.50	264.05 CMS
Min	2.25	3.00	3.50	4.50	12.10	17.75	21.95	12.70	9.25	7.25	6.25	4.25	2.25 CMS
Runoff	8.143	14.731	22.347	44.669	62.303	119.642	150.500	47.105	28.421	21.816	16.481	13.954	550.113 MCM

Momentary Peak 307.40 CMS, at 6.42 M (A.D), at 9.00 Hours, on Sep 24, 1996
Runoff Yield 16.81 Liters/Second/Square KM, Momentary Peak Yield 296.146 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

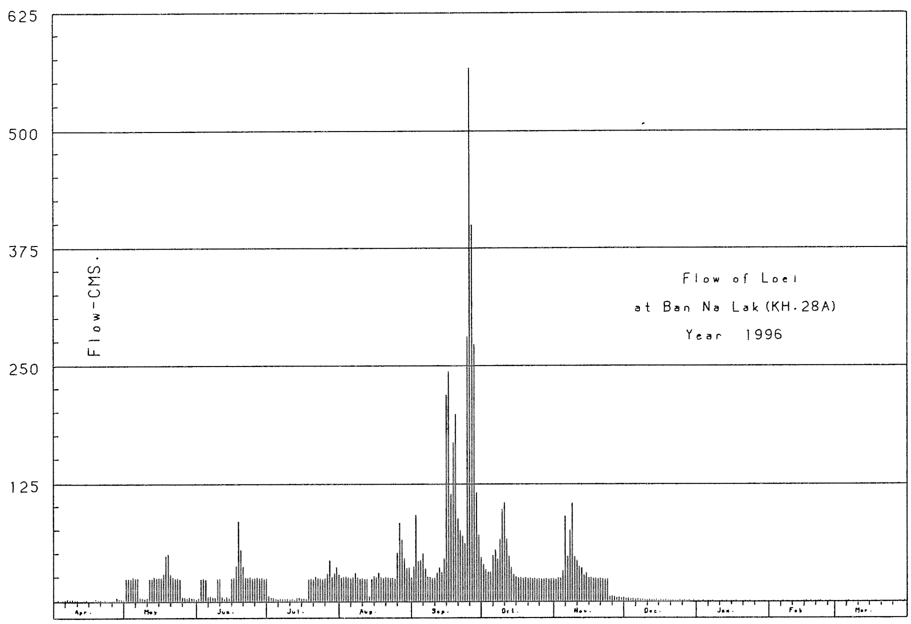
Loei River at Ban Na Lak, Loei (Kh.28A)

Location	Lat. 17°-18′-31″ N., Long. 101°-46′-25″ E., on left bank at the bridge of Wang Saphung - Loei Highway, Amphoe Wang Saphung, Loei.
Drainage Area	1,262 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+239.62 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank upstream at the footpath of the bridge.
Elevation	+253.928 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1994 to date.
Rating Operation	
Period of Rating	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 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 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.89	240.38	240.13	240.30	240.86	241.30	241.38	240.35	240.14	239.85	239.73	239.67	
2	239.86	240.31	240.34	240.22	240.97	242.46	241.22	240.67	240.12	239.84	239.73	239.68	
3	239.83	240.42	240.33	240.15	241.03	241.46	241.17	240.74	240.10	239.84	239.71	239.68	
4	239.88	240.77	240.33	240.11	240.77	241.46	241.14	241.19	240.09	239.84	239.70	239.69	
5	239.96	240.62	240.26	240.07	240.67	241.66	241.61	242.45	240.08	239.83	239.69	239.71	
6	240.03	240.36	240.26	240.05	240.77	241.26	241.76	241.59	240.07	239.82	239.70	239.73	
7	239.99	240.19	240.23	240.05	241.13	241.02	241.50	242.19	240.06	239.81	239.71	239.72	
8	239.95	240.10	240.16	240.10	240.71	240.85	241.99	242.67	240.03	239.80	239.72	239.70	
9	239.87	240.08	240.41	240.08	240.54	240.70	242.56	241.58	240.02	239.79	239.72	239.69	
10	239.83	240.13	240.40	240.06	240.43	240.62	242.69	241.46	240.00	239.79	239.70	239.68	
11	239.80	240.39	240.22	240.05	240.38	241.12	241.98	241.30	240.02	239.78	239.69	239.67	
12	239.80	240.45	240.11	240.04	240.32	241.27	241.59	241.28	240.02	239.78	239.69	239.67	
13	239.86	240.90	240.23	240.15	240.30	241.16	241.28	241.07	240.00	239.79	239.68	239.70	
14	239.81	240.74	240.18	240.19	240.44	241.53	241.09	241.12	240.00	239.80	239.68	239.71	
15	239.77	240.55	240.64	240.13	241.05	244.23	240.97	240.87	239.98	239.79	239.72	239.71	
16	239.81	240.56	240.61	240.08	240.78	244.48	240.87	240.75	239.98	239.78	239.79	239.70	
17	239.91	241.10	241.33	240.04	241.14	242.83	240.77	240.66	239.96	239.78	239.84	239.69	
18	240.05	241.57	242.36	240.32	240.80	243.62	240.72	240.58	239.96	239.77	239.84	239.68	
19	239.99	241.64	241.74	240.32	240.76	243.98	240.71	240.52	239.96	239.76	239.80	239.67	
20	239.86	241.06	241.29	240.33	240.86	242.41	240.69	240.45	239.95	239.76	239.81	239.66	
21	239.79	240.88	240.90	241.00	240.73	242.16	240.65	240.41	239.94	239.75	239.83	239.66	
22	239.77	240.61	240.87	240.69	240.78	242.06	240.60	240.36	239.92	239.75	239.79	239.67	
23	239.75	240.46	240.86	240.44	240.61	241.89	240.49	240.33	239.91	239.74	239.75	239.67	
24	239.74	240.37	240.65	240.35	240.50	244.84	240.43	240.30	239.90	239.73	239.78	239.66	
25	239.73	240.26	240.52	240.39	241.66	246.73	240.42	240.28	239.90	239.72	239.76	239.65	
26	239.75	240.18	240.84	241.12	242.33	245.75	240.42	240.25	239.89	239.72	239.74	239.70	
27	240.19	240.16	240.72	241.48	241.98	244.76	240.42	240.21	239.88	239.71	239.73	239.75	
28	240.00	240.20	240.52	240.98	241.52	242.87	240.39	240.20	239.87	239.75	239.72	239.80	
29	239.99	240.17	240.42	241.13	241.26	242.06	240.36	240.19	239.87	239.74		239.86	
30	240.07	240.10	240.36	241.28	241.29	241.54	240.34	240.17	239.86	239.74		239.85	
31		240.06		241.06	240.96		240.33		239.85	239.73		240.03	
Mean	239.88	240.51	240.61	240.41	240.91	242.47	241.05	240.87	239.98	239.78	239.74	239.71	
Max	240.19	241.64	242.36	241.48	242.33	246.73	242.69	242.67	240.14	239.85	239.84	240.03	246.73
Min	239.73	240.06	240.11	240.04	240.30	240.62	240.33	240.17	239.85	239.71	239.68	239.65	239.65

Annual Max Momentary Gage Height 247.44 M (MSL), at 18.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 239.62 M (MSL), River Bed 239.02 M (MSL)
Left Bank Elevation 253.71 M (MSL)
Right Bank Elevation 253.73 M (MSL), Drainage Area 1262 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	24.08	3.39	5.80	25.57	37.00	40.20	23.99	3.52	1.40	0.92	0.68	
2	1.44	23.87	23.96	4.60	25.91	91.60	33.80	24.98	3.26	1.36	0.92	0.72	
3	1.32	24.21	23.93	3.65	27.05	43.40	31.95	25.20	3.00	1.36	0.84	0.72	
4	1.52	25.29	23.93	3.13	25.29	43.40	30.90	32.65	2.90	1.36	0.80	0.76	
5	1.84	24.83	5.20	2.70	24.98	51.40	49.40	91.00	2.80	1.32	0.76	0.84	
6	2.30	24.02	5.20	2.50	25.29	35.40	55.40	48.60	2.70	1.28	0.80	0.92	
7	1.96	4.17	4.75	2.50	30.55	26.70	45.00	76.50	2.60	1.24	0.84	0.88	
8	1.80	3.00	3.78	3.00	25.10	25.54	66.50	104.20	2.30	1.20	0.88	0.80	
9	1.48	2.80	24.18	2.80	24.58	25.07	97.60	48.20	2.20	1.16	0.88	0.76	
10	1.32	3.39	24.15	2.60	24.24	24.83	105.40	43.40	2.00	1.16	0.80	0.72	
11	1.20	24.11	4.60	2.50	24.08	30.20	66.00	37.00	2.20	1.12	0.76	0.68	
12	1.20	24.30	3.13	2.40	23.90	35.80	48.60	36.20	2.20	1.12	0.76	0.68	
13	1.44	25.69	4.75	3.65	5.80	31.60	36.20	28.45	2.00	1.16	0.72	0.80	
14	1.24	25.20	4.04	4.17	24.27	46.20	29.15	30.20	2.00	1.20	0.72	0.84	
15	1.08	24.61	24.89	3.39	27.75	219.70	25.91	25.60	1.92	1.16	0.88	0.84	
16	1.24	24.64	24.79	2.80	25.32	244.00	25.60	25.23	1.92	1.12	1.16	0.80	
17	1.64	29.50	38.20	2.40	30.90	113.80	25.29	24.95	1.84	1.12	1.36	0.76	
18	2.50	47.80	85.60	23.90	25.38	169.60	25.13	24.70	1.84	1.08	1.36	0.72	
19	1.96	50.60	54.60	23.90	25.26	198.40	25.10	24.52	1.84	1.04	1.20	0.68	
20	1.44	28.10	36.60	23.93	25.57	88.60	25.04	24.30	1.80	1.04	1.24	0.64	
21	1.16	25.63	25.69	26.00	25.17	75.00	24.92	24.18	1.76	1.00	1.32	0.64	
22	1.08	24.79	25.60	25.04	25.32	70.00	24.76	24.02	1.68	1.00	1.16	0.68	
23	1.00	24.33	25.57	24.27	24.79	61.50	24.42	23.93	1.64	0.96	1.00	0.68	
24	0.96	24.05	24.92	23.99	24.45	281.40	24.24	5.80	1.60	0.92	1.12	0.64	
25	0.92	5.20	24.52	24.11	51.40	566.40	24.21	5.50	1.60	0.88	1.04	0.60	
26	1.00	4.04	25.51	30.20	83.80	400.50	24.21	5.05	1.56	0.88	0.96	0.80	
27	4.17	3.78	25.13	44.20	66.00	272.60	24.21	4.45	1.52	0.84	0.92	1.00	
28	2.00	4.30	24.52	25.94	45.80	116.20	24.11	4.30	1.48	1.00	0.88	1.20	
29	1.96	3.91	24.21	30.55	35.40	70.00	24.02	4.17	1.48	0.96		1.44	
30	2.70	3.00	24.02	36.20	36.60	46.60	23.96	3.91	1.44	0.96		1.40	
31		2.60		28.10	25.88		23.93		1.40	0.92		2.30	
Total	48.43	589.84	673.36	444.92	941.40	3542.44	1155.16	905.18	64.00	34.32	27.00	26.62	8452.67 CMSDAY
Mean	1.61	19.03	22.45	14.35	30.37	118.08	37.26	30.17	2.06	1.11	0.96	0.86	23.16 CMS
Max	4.17	50.60	85.60	44.20	83.80	566.40	105.40	104.20	3.52	1.40	1.36	2.30	566.40 CMS
Min	0.92	2.60	3.13	2.40	5.80	24.83	23.93	3.91	1.40	0.84	0.72	0.60	0.60 CMS
Runoff	4.184	50.962	58.178	38.441	81.337	306.067	99.806	78.208	5.530	2.965	2.333	2.300	730.311 MCM

Momentary Peak 702.40 CMS, at 247.44 M (MSL), at 18.00 Hours, on Sep 25, 1996

Runoff Yield 18.35 Liters/Second/Square KM, Momentary Peak Yield 556.577 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

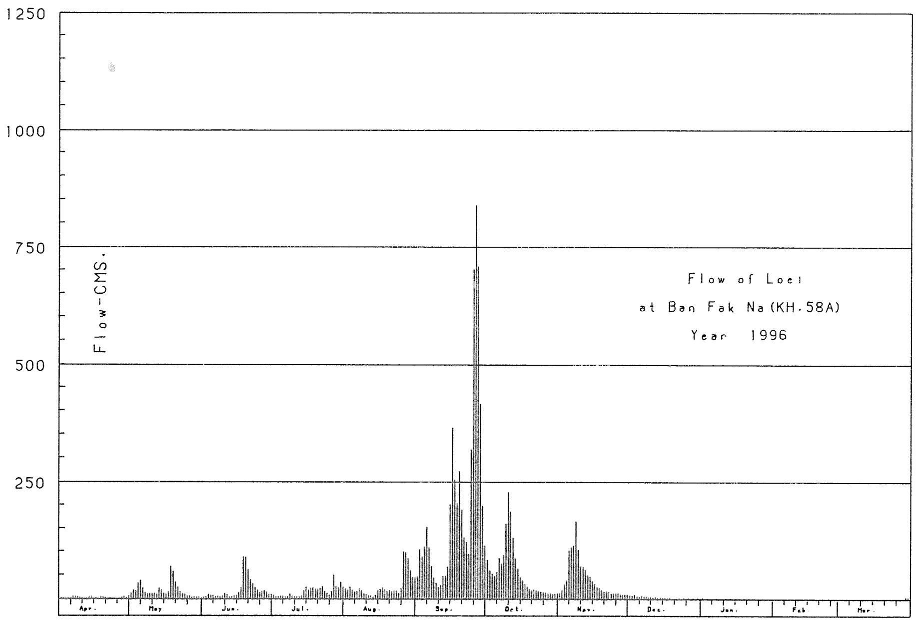
Loei River at Ban Fak Na, Loei (Kh.58A)

Location	Lat. 17°-29′-35″ N., Long. 101°-44′-19″ E., on left bank at the bridge on road, Ban Fak Na, Amphoe Muang, Loei.
Drainage Area	3,101 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+229.00 m.(M.S.L.)
Bench Mark	B.M.-Highways Dept.
Location	On left bank upstream side at the abutment of the bridge.
Elevation	+240.622 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	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.37	230.86	230.42	230.63	231.22	231.92	232.64	230.85	230.67	230.36	230.26	230.25	
2	230.33	231.03	230.54	230.53	231.07	233.06	232.22	231.07	230.58	230.35	230.26	230.24	
3	230.30	231.03	230.70	230.49	231.35	232.79	232.03	231.51	230.72	230.33	230.25	230.23	
4	230.31	231.54	230.66	230.58	231.08	233.17	231.96	231.71	230.55	230.31	230.24	230.22	
5	230.36	231.73	230.62	230.56	230.95	233.87	232.12	233.04	230.54	230.29	230.23	230.21	
6	230.51	231.24	230.57	230.49	230.97	233.11	232.71	233.14	230.58	230.29	230.23	230.22	
7	230.53	230.88	230.56	230.46	231.23	232.38	232.50	233.21	230.57	230.31	230.23	230.21	
8	230.47	230.73	230.55	230.77	231.03	231.84	232.87	234.07	230.54	230.34	230.24	230.23	
9	230.45	230.78	230.56	230.64	230.81	231.59	233.98	233.07	230.48	230.32	230.26	230.23	
10	230.31	230.80	230.82	230.53	230.70	231.28	234.88	232.37	230.47	230.31	230.26	230.23	
11	230.31	230.76	230.66	230.49	230.64	231.45	234.33	232.37	230.46	230.30	230.25	230.23	
12	230.37	230.74	230.50	230.53	230.61	231.90	233.53	232.22	230.44	230.30	230.23	230.23	
13	230.51	231.23	230.48	230.56	230.55	231.94	232.69	232.00	230.44	230.29	230.22	230.21	
14	230.51	231.07	230.61	231.06	230.63	232.34	232.29	231.90	230.42	230.30	230.21	230.23	
15	230.37	230.82	230.59	231.32	231.07	234.55	231.87	231.70	230.42	230.31	230.24	230.25	
16	230.33	230.70	230.89	231.06	231.13	236.30	231.74	231.51	230.39	230.32	230.26	230.25	
17	230.32	230.95	231.28	231.28	231.32	235.19	231.50	231.35	230.38	230.31	230.25	230.25	
18	230.43	232.36	232.77	231.26	231.12	234.56	231.37	231.26	230.37	230.30	230.26	230.24	
19	230.46	232.18	232.78	231.21	231.01	235.37	231.16	231.12	230.36	230.29	230.26	230.25	
20	230.37	231.63	232.26	231.12	231.06	234.40	231.08	230.94	230.36	230.28	230.25	230.25	
21	230.33	231.35	231.75	231.27	230.97	233.52	231.13	231.00	230.37	230.28	230.25	230.24	
22	230.29	230.93	231.56	231.35	231.02	233.37	231.09	230.93	230.37	230.27	230.27	230.24	
23	230.26	230.80	231.29	231.00	231.00	232.89	230.99	230.82	230.36	230.27	230.22	230.24	
24	230.24	230.70	231.12	230.81	230.83	235.85	230.97	230.79	230.36	230.24	230.20	230.23	
25	230.24	230.60	230.92	230.69	231.26	238.22	230.94	230.84	230.35	230.22	230.22	230.24	
26	230.25	230.54	230.95	230.93	232.96	239.28	230.85	230.79	230.33	230.22	230.21	230.24	
27	230.47	230.49	231.07	231.99	232.95	238.43	230.82	230.75	230.33	230.22	230.20	230.27	
28	230.50	230.50	230.89	231.33	232.68	236.74	230.79	230.68	230.34	230.21	230.19	230.28	
29	230.42	230.49	230.73	231.29	232.21	234.50	230.78	230.74	230.33	230.21		230.46	
30	230.54	230.44	230.67	231.63	231.85	233.19	230.75	230.71	230.34	230.21		230.42	
31		230.41		231.33	231.85		230.77		230.36	230.21		230.49	
Mean	230.38	230.98	230.99	230.94	231.26	233.97	231.91	231.62	230.44	230.28	230.24	230.26	
Max	230.54	232.36	232.78	231.99	232.96	239.28	234.88	234.07	230.72	230.36	230.27	230.49	239.28
Min	230.24	230.41	230.42	230.46	230.55	231.28	230.75	230.68	230.33	230.21	230.19	230.21	230.19

Annual Max Momentary Gage Height 239.44 M (MSL), at 9.00 Hours, on Sep 26, 1996
Zero Gage at Bottom Elevation 229.00 M (MSL), River Bed 229.59 M (MSL)
Left Bank Elevation 240.36 M (MSL)
Right Bank Elevation 240.36 M (MSL), Drainage Area 3101 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.55	14.50	4.36	8.75	23.50	49.40	84.00	14.25	9.75	3.40	1.98	1.85		
2	2.95	18.75	6.68	6.46	19.75	106.30	63.00	19.75	7.56	3.25	1.98	1.72		
3	2.50	18.75	10.50	5.62	27.25	91.50	54.35	32.85	11.00	2.95	1.85	1.59		
4	2.65	33.90	9.50	7.56	20.00	112.35	51.20	40.40	6.90	2.65	1.72	1.46		
5	3.40	41.20	8.50	7.12	16.75	154.22	58.40	105.20	6.68	2.37	1.59	1.33		
6	6.02	24.00	7.34	5.62	17.25	109.05	87.50	110.70	7.56	2.37	1.59	1.46		
7	6.46	15.00	7.12	5.08	23.75	71.00	77.00	114.55	7.34	2.65	1.59	1.33		
8	5.26	11.25	6.90	12.25	18.75	45.80	95.85	167.90	6.68	3.10	1.72	1.59		
9	4.90	12.50	7.12	9.00	13.25	35.65	161.65	106.85	5.44	2.80	1.98	1.59		
10	2.65	13.00	13.50	6.46	10.50	25.00	230.40	70.50	5.26	2.65	1.98	1.59		
11	2.65	12.00	9.50	5.62	9.00	30.75	187.25	70.50	5.08	2.50	1.85	1.59		
12	3.55	11.50	5.80	6.46	8.25	48.50	132.30	63.00	4.72	2.50	1.59	1.59		
13	6.02	23.75	5.44	7.12	6.90	50.30	86.50	53.00	4.72	2.37	1.46	1.33		
14	6.02	19.75	8.25	19.50	8.75	69.00	66.50	48.50	4.36	2.50	1.33	1.59		
15	3.55	13.50	7.78	26.20	19.75	204.00	47.15	40.00	4.36	2.65	1.72	1.85		
16	2.95	10.50	15.25	19.50	21.25	366.00	41.60	32.85	3.85	2.80	1.98	1.85		
17	2.80	16.75	25.00	25.00	26.20	257.10	32.50	27.25	3.70	2.65	1.85	1.85		
18	4.54	70.00	90.50	24.50	21.00	204.80	27.95	24.50	3.55	2.50	1.98	1.72		
19	5.08	61.10	91.00	23.25	18.25	273.30	22.00	21.00	3.40	2.37	1.98	1.85		
20	3.55	37.20	65.00	21.00	19.50	192.50	20.00	16.50	3.40	2.24	1.85	1.85		
21	2.95	27.25	42.00	24.75	17.25	131.70	21.25	18.00	3.55	2.24	1.85	1.72		
22	2.37	16.25	34.60	27.25	18.50	123.35	20.25	16.25	3.55	2.11	2.11	1.72		
23	1.98	13.00	25.25	18.00	18.00	96.95	17.75	13.50	3.40	2.11	1.46	1.72		
24	1.72	10.50	21.00	13.25	13.75	319.00	17.25	12.75	3.40	1.72	1.20	1.59		
25	1.72	8.00	16.00	10.25	24.50	704.10	16.50	14.00	3.25	1.46	1.46	1.72		
26	1.85	6.68	16.75	16.25	100.80	840.60	14.25	12.75	2.95	1.46	1.33	1.72		
27	5.26	5.62	19.75	52.55	100.25	709.31	13.50	11.75	2.95	1.46	1.20	2.11		
28	5.80	5.80	15.25	26.55	86.00	417.86	12.75	10.00	3.10	1.33	1.15	2.24		
29	4.36	5.62	11.25	25.25	62.50	200.00	12.50	11.50	2.95	1.33		5.08		
30	6.68	4.72	9.75	37.20	46.25	113.45	11.75	10.75	3.10	1.33		4.36		
31		4.18		26.55	46.25		12.25		3.40	1.33		5.62		
Total	115.74	586.52	616.64	529.92	883.65	6152.84	1797.10	1311.30	150.91	71.15	47.33	62.18	12325.28	CMSDAY
Mean	3.86	18.92	20.55	17.09	28.50	205.09	57.97	43.71	4.87	2.30	1.69	2.01	33.77	CMS
Max	6.68	70.00	91.00	52.55	100.80	840.60	230.40	167.90	11.00	3.40	2.11	5.62	840.60	CMS
Min	1.72	4.18	4.36	5.08	6.90	25.00	11.75	10.00	2.95	1.33	1.15	1.33	1.15	CMS
Runoff	10.000	50.675	53.278	45.785	76.347	531.605	155.269	113.296	13.039	6.147	4.089	5.372	1064.904	MCM

Momentary Peak 876.50 CMS, at 239.44 M (MSL), at 9.00 Hours, on Sep 26, 1996

Runoff Yield 10.89 Liters/Second/Square KM, Momentary Peak Yield 282.651 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

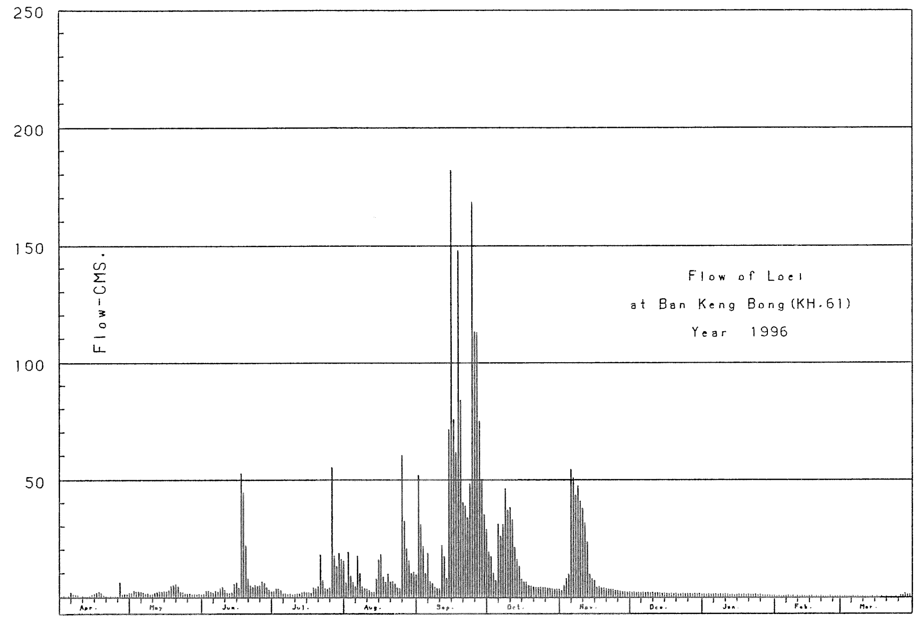
Loei River at Ban Keng Bong, Loei (Kh.61)

Location	Lat. 17°-07′-48″ N., Long. 101°-04′-56″ E., on right bank at the bridge of Amphoe Wang Saphung-Ban Nong Khan road, Amphoe Phu Luang, Loei.
Drainage Area	562 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+258.36 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the footpath of the bridge.
Elevation	+272.020 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1982 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 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 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.80	258.89	258.86	258.96	259.14	260.22	259.41	259.01	258.95	258.88	258.81	258.80	
2	258.76	259.00	258.99	259.04	259.41	259.70	259.38	259.11	258.95	258.88	258.81	258.80	
3	258.76	258.95	258.98	259.03	259.23	259.47	259.26	259.20	258.95	258.88	258.81	258.80	
4	258.77	258.97	258.95	259.01	259.15	259.26	259.18	259.25	258.94	258.88	258.81	258.80	
5	258.94	258.96	258.93	258.90	259.09	259.40	259.71	260.28	258.94	258.88	258.81	258.78	
6	258.85	258.92	258.98	258.88	259.38	259.16	259.58	260.19	258.94	258.87	258.81	258.78	
7	258.85	258.89	258.96	258.87	259.26	259.14	259.70	260.02	258.94	258.87	258.81	258.78	
8	258.81	258.88	259.04	258.87	259.08	259.07	260.08	260.11	258.93	258.87	258.81	258.78	
9	258.76	258.86	259.08	258.86	259.05	259.05	259.86	259.95	258.93	258.87	258.81	258.78	
10	258.76	258.86	259.01	258.86	259.03	259.04	259.88	259.88	258.93	258.87	258.81	258.78	
11	258.78	258.92	258.92	258.87	259.00	259.48	259.75	259.72	258.93	258.87	258.81	258.78	
12	258.78	258.95	258.89	258.89	258.95	259.38	259.46	259.52	258.93	258.86	258.81	258.78	
13	258.81	258.96	258.94	258.92	258.94	259.21	259.36	259.25	258.91	258.86	258.81	258.78	
14	258.84	258.96	259.12	258.96	259.20	260.68	259.32	259.20	258.91	258.86	258.80	258.78	
15	258.89	258.96	259.15	258.94	259.36	262.84	259.19	259.18	258.91	258.86	258.80	258.78	
16	258.91	258.96	259.06	258.92	259.39	260.79	259.16	259.08	258.90	258.86	258.80	258.78	
17	258.96	259.01	260.24	258.92	259.22	260.45	259.15	259.08	258.90	258.86	258.80	258.78	
18	258.90	259.09	260.04	259.06	259.15	262.22	259.11	259.06	258.90	258.86	258.80	258.78	
19	258.82	259.11	259.48	259.04	259.25	260.98	259.09	259.05	258.90	258.86	258.80	258.76	
20	258.76	259.12	259.20	259.08	259.16	259.94	259.08	259.04	258.90	258.86	258.80	258.76	
21	258.76	259.09	259.10	259.39	259.16	259.90	259.07	259.04	258.89	258.86	258.80	258.76	
22	258.76	258.96	259.08	259.18	259.13	259.78	259.07	259.03	258.89	258.86	258.80	258.76	
23	258.76	258.93	259.11	259.04	259.06	260.13	259.07	259.02	258.89	258.86	258.80	258.76	
24	258.76	258.90	259.10	259.03	259.04	262.59	259.07	259.01	258.89	258.85	258.81	258.76	
25	258.76	258.88	259.10	259.05	260.42	261.57	259.06	258.99	258.89	258.85	258.81	258.76	
26	259.15	258.87	259.16	260.30	259.74	261.56	259.06	258.98	258.89	258.84	258.80	258.83	
27	258.86	258.86	259.14	259.38	259.45	260.77	259.05	258.97	258.89	258.83	258.80	258.84	
28	258.86	258.86	259.07	259.32	259.35	260.17	259.03	258.95	258.89	258.82	258.80	258.90	
29	258.87	258.86	259.01	259.40	259.26	259.81	259.03	258.95	258.89	258.82		258.86	
30	258.91	258.86	258.97	259.36	259.27	259.65	259.03	258.95	258.89	258.82		258.86	
31		258.86		259.35	259.25		259.03		258.88	258.82		258.86	
Mean	258.83	258.94	259.12	259.09	259.24	260.18	259.30	259.30	258.91	258.86	258.81	258.79	
Max	259.15	259.12	260.24	260.30	260.42	262.84	260.08	260.28	258.95	258.88	258.81	258.90	262.84
Min	258.76	258.86	258.86	258.86	258.94	259.04	259.03	258.95	258.88	258.82	258.80	258.76	258.76

Annual Max Momentary Gage Height 262.91 M (MSL), at 12.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation 258.36 M (MSL), River Bed 258.60 M (MSL)
Left Bank Elevation 271.78 M (MSL)
Right Bank Elevation 271.78 M (MSL), Drainage Area 562 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	1.70	1.40	2.52	6.20	52.24	19.40	3.20	2.40	1.60	0.90	0.80	
2	0.56	3.00	2.88	3.80	19.40	31.00	17.60	5.30	2.40	1.60	0.90	0.80	
3	0.56	2.40	2.76	3.60	9.20	21.80	10.40	8.00	2.40	1.60	0.90	0.80	
4	0.62	2.64	2.40	3.20	6.50	10.40	7.40	10.00	2.28	1.60	0.90	0.80	
5	2.28	2.52	2.16	1.80	4.80	19.00	31.40	54.76	2.28	1.60	0.90	0.68	
6	1.30	2.04	2.76	1.60	17.60	6.80	26.20	50.98	2.28	1.50	0.90	0.68	
7	1.30	1.70	2.52	1.50	10.40	6.20	31.00	43.84	2.28	1.50	0.90	0.68	
8	0.90	1.60	3.80	1.50	4.60	4.40	46.36	47.62	2.16	1.50	0.90	0.68	
9	0.56	1.40	4.60	1.40	4.00	4.00	37.40	41.00	2.16	1.50	0.90	0.68	
10	0.56	1.40	3.20	1.40	3.60	3.80	38.20	38.20	2.16	1.50	0.90	0.68	
11	0.68	2.04	2.04	1.50	3.00	22.20	33.00	31.80	2.16	1.50	0.90	0.68	
12	0.68	2.40	1.70	1.70	2.40	17.60	21.40	23.80	2.16	1.40	0.90	0.68	
13	0.90	2.52	2.28	2.04	2.28	8.40	16.20	10.00	1.92	1.40	0.90	0.68	
14	1.20	2.52	5.60	2.52	8.00	71.56	13.40	8.00	1.92	1.40	0.80	0.68	
15	1.70	2.52	6.50	2.28	16.20	182.20	7.70	7.40	1.92	1.40	0.80	0.68	
16	1.92	2.52	4.20	2.04	18.30	76.18	6.80	4.60	1.80	1.40	0.80	0.68	
17	2.52	3.20	53.08	2.04	8.80	61.90	6.50	4.60	1.80	1.40	0.80	0.68	
18	1.80	4.80	44.68	4.20	6.50	148.10	5.30	4.20	1.80	1.40	0.80	0.68	
19	1.00	5.30	22.20	3.80	10.00	84.16	4.80	4.00	1.80	1.40	0.80	0.56	
20	0.56	5.60	8.00	4.60	6.80	40.60	4.60	3.80	1.80	1.40	0.80	0.56	
21	0.56	4.80	5.00	18.30	6.80	39.00	4.40	3.80	1.70	1.40	0.80	0.56	
22	0.56	2.52	4.60	7.40	5.90	34.20	4.40	3.60	1.70	1.40	0.80	0.56	
23	0.56	2.16	5.30	3.80	4.20	48.46	4.40	3.40	1.70	1.40	0.80	0.56	
24	0.56	1.80	5.00	3.60	3.80	168.45	4.40	3.20	1.70	1.30	0.90	0.56	
25	0.56	1.60	5.00	4.00	60.64	113.50	4.20	2.88	1.70	1.30	0.90	0.56	
26	6.50	1.50	6.80	55.60	32.60	113.00	4.20	2.76	1.70	1.20	0.80	1.10	
27	1.40	1.40	6.20	17.60	21.00	75.34	4.00	2.64	1.70	1.10	0.80	1.20	
28	1.40	1.40	4.40	13.40	15.50	50.14	3.60	2.40	1.70	1.00	0.80	1.80	
29	1.50	1.40	3.20	19.00	10.40	35.40	3.60	2.40	1.70	1.00		1.40	
30	1.92	1.40	2.64	16.20	10.80	29.00	3.60	2.40	1.70	1.00		1.40	
31		1.40		15.50	10.00		3.60		1.60	1.00		1.40	
Total	37.92	75.20	226.90	223.44	350.22	1579.03	429.46	434.58	60.48	42.70	23.90	24.94	3508.77 CMSDAY
Mean	1.26	2.43	7.56	7.21	11.30	52.63	13.85	14.49	1.95	1.38	0.85	0.80	9.61 CMS
Max	6.50	5.60	53.08	55.60	60.64	182.20	46.36	54.76	2.40	1.60	0.90	1.80	182.20 CMS
Min	0.56	1.40	1.40	1.40	2.28	3.80	3.60	2.40	1.60	1.00	0.80	0.56	0.56 CMS
Runoff	3.276	6.497	19.604	19.305	30.259	136.428	37.105	37.548	5.225	3.689	2.065	2.155	303.158 MCM

Momentary Peak 186.05 CMS, at 262.91 M (MSL), at 12.00 Hours, on Sep 15, 1996

Runoff Yield 17.11 Liters/Second/Square KM, Momentary Peak Yield 331.050 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

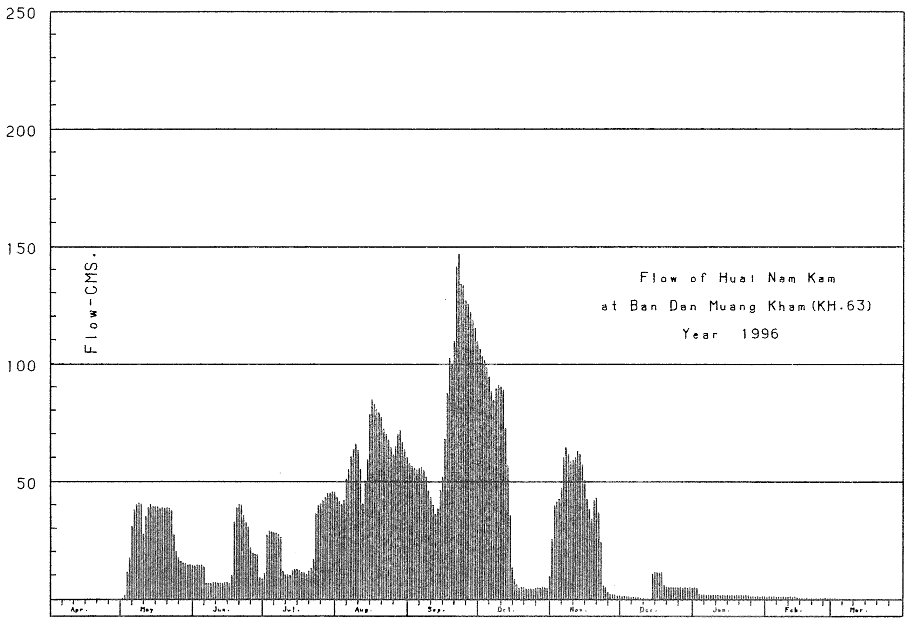
Huai Nam Kam at Ban Dan Muang Kham , Sakon Nakhon .(kh.63)

Location	Lat. 17°-06′-15″ N., Long. 104°-21′-26″ E., on left bank at the bridge on highway, Ban Dan Muang Kham , Amphoe Khok Si Suphon , Sakon Nakhon.
Drainage Area	1,764 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+147.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+154.662 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1982 to date.
Rating Operation	
Period of Rating	1982-1985, 1996 to date.
Rated by Float	-
Rated by Current Meter	1982-1985, 1996 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	147.03	147.28	148.63	148.39	150.45	151.41	152.49	149.32	147.43	147.87	147.38	147.27	
2	147.02	147.47	148.65	149.42	150.23	151.34	152.45	150.01	147.42	147.86	147.38	147.27	
3	147.01	148.45	148.65	149.49	150.10	151.31	152.43	150.19	147.40	147.57	147.39	147.26	
4	147.02	148.85	148.65	149.48	150.27	151.25	152.39	150.37	147.38	147.54	147.39	147.21	
5	147.04	149.59	148.60	149.46	151.04	151.30	152.34	150.77	147.36	147.53	147.37	147.18	
6	147.03	149.92	148.05	149.44	151.26	151.31	152.25	151.51	147.34	147.52	147.36	147.18	
7	147.02	150.07	148.03	149.43	151.53	151.25	152.20	151.69	147.33	147.52	147.38	147.18	
8	147.02	150.14	148.04	149.35	151.65	151.09	152.27	151.57	147.31	147.52	147.39	147.18	
9	147.01	150.12	148.08	148.48	151.74	150.68	152.29	151.43	147.29	147.51	147.38	147.18	
10	147.02	149.42	148.08	148.34	151.63	150.43	152.28	151.47	147.27	147.50	147.39	147.18	
11	147.02	149.79	148.07	148.36	151.27	150.05	152.26	151.51	147.24	147.50	147.37	147.18	
12	147.05	149.97	148.05	148.34	150.13	149.84	151.95	151.62	147.21	147.50	147.37	147.18	
13	147.04	150.06	148.05	148.48	151.00	149.95	151.35	151.58	147.20	147.50	147.38	147.19	
14	147.02	149.99	148.06	148.53	151.48	150.69	149.82	151.38	148.38	147.49	147.30	147.19	
15	147.01	149.97	148.09	148.54	152.10	151.09	148.57	151.00	148.44	147.49	147.29	147.19	
16	147.13	149.97	148.02	148.48	152.20	151.81	148.20	150.36	148.44	147.49	147.28	147.18	
17	147.19	149.95	148.33	148.44	152.17	152.24	148.01	149.94	148.43	147.49	147.27	147.18	
18	147.11	149.96	149.68	148.41	152.13	152.44	147.84	149.74	148.43	147.49	147.27	147.18	
19	147.08	149.96	149.97	148.37	152.11	152.41	147.90	150.29	147.98	147.49	147.27	147.18	
20	147.13	149.96	150.07	148.47	152.06	152.53	147.87	150.39	147.90	147.50	147.27	147.18	
21	147.13	149.95	150.06	148.55	151.94	152.90	147.82	149.87	147.89	147.50	147.27	147.17	
22	147.09	149.91	149.81	148.82	151.88	152.96	147.80	149.25	147.88	147.50	147.26	147.18	
23	147.06	149.42	149.67	149.85	151.80	152.82	147.78	147.95	147.88	147.50	147.27	147.18	
24	147.05	149.02	149.57	150.02	151.68	152.81	147.66	147.69	147.88	147.50	147.26	147.18	
25	147.04	148.85	149.11	150.09	151.56	152.74	147.75	147.62	147.88	147.42	147.27	147.18	
26	147.03	148.76	149.00	150.28	151.69	152.72	147.75	147.54	147.88	147.39	147.27	147.19	
27	147.03	148.71	148.96	150.44	151.88	152.68	147.73	147.53	147.86	147.39	147.27	147.18	
28	147.06	148.68	148.93	150.57	151.92	152.64	147.71	147.50	147.87	147.39	147.27	147.18	
29	147.13	148.66	148.27	150.60	151.77	152.60	147.69	147.47	147.87	147.39		147.17	
30	147.12	148.65	148.20	150.63	151.64	152.53	147.67	147.45	147.87	147.39		147.18	
31		148.64		150.63	151.51		148.31		147.87	147.39		147.26	
Mean	147.06	149.36	148.71	149.23	151.48	151.73	149.77	149.87	147.74	147.50	147.32	147.19	
Max	147.19	150.14	150.07	150.63	152.20	152.96	152.49	151.69	148.44	147.87	147.39	147.27	152.96
Min	147.01	147.28	148.02	148.34	150.10	149.84	147.66	147.45	147.20	147.39	147.26	147.17	147.01

Annual Max Momentary Gage Height 153.04 M (MSL), at 6.00 Hours, on Sep 22, 1996
Zero Gage at Bottom Elevation 147.00 M (MSL), River Bed 146.82 M (MSL)
Left Bank Elevation 154.31 M (MSL)
Right Bank Elevation 154.52 M (MSL), Drainage Area 1764 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.90	14.45	11.07	43.85	58.22	106.70	25.80	1.65	5.20	1.40	0.85	
2	0.13	1.85	14.75	27.80	41.87	56.80	103.50	40.07	1.60	5.10	1.40	0.85	
3	0.11	11.85	14.75	29.20	40.70	56.20	101.90	41.51	1.50	2.53	1.45	0.80	
4	0.13	17.75	14.75	29.00	42.23	55.10	98.75	43.13	1.40	2.30	1.45	0.55	
5	0.16	31.20	14.00	28.60	51.48	56.00	95.00	47.54	1.30	2.22	1.35	0.45	
6	0.14	38.16	7.00	28.20	55.28	56.20	88.50	60.45	1.20	2.15	1.30	0.45	
7	0.13	40.49	6.80	28.00	60.95	55.10	85.00	64.95	1.15	2.15	1.40	0.45	
8	0.13	41.06	6.90	26.40	63.95	52.33	89.90	61.95	1.05	2.15	1.45	0.45	
9	0.11	40.88	7.30	12.24	66.32	46.46	91.30	58.66	0.95	2.07	1.40	0.45	
10	0.13	27.80	7.30	10.42	63.45	43.67	90.60	59.54	0.85	2.00	1.45	0.45	
11	0.13	35.39	7.20	10.68	55.46	40.35	89.20	60.45	0.70	2.00	1.35	0.45	
12	0.18	39.31	7.00	10.42	40.97	36.44	73.00	63.20	0.55	2.00	1.35	0.45	
13	0.16	40.42	7.00	12.24	50.80	38.85	57.00	62.20	0.50	2.00	1.40	0.48	
14	0.13	39.77	7.10	12.95	59.76	46.58	36.02	57.60	10.94	1.95	1.00	0.48	
15	0.11	39.31	7.40	13.10	79.00	52.33	13.55	50.80	11.72	1.95	0.95	0.48	
16	0.33	39.31	6.70	12.24	85.00	68.30	8.70	43.04	11.72	1.95	0.90	0.45	
17	0.48	38.85	10.29	11.72	83.20	87.80	6.60	38.62	11.59	1.95	0.85	0.45	
18	0.27	39.08	33.08	11.33	80.80	102.70	4.90	34.34	11.59	1.95	0.85	0.45	
19	0.22	39.08	39.31	10.81	79.60	100.30	5.50	42.41	6.30	1.95	0.85	0.45	
20	0.33	39.08	40.49	12.11	77.40	109.90	5.20	43.31	5.50	2.00	0.85	0.45	
21	0.33	38.85	40.42	13.25	72.60	141.50	4.70	37.07	5.40	2.00	0.85	0.42	
22	0.23	37.93	35.81	17.30	70.40	147.20	4.50	24.50	5.30	2.00	0.80	0.45	
23	0.19	27.80	32.87	36.65	68.00	134.30	4.71	6.00	5.30	2.00	0.85	0.45	
24	0.18	20.36	30.80	40.14	64.70	133.40	4.44	5.29	5.30	2.00	0.80	0.45	
25	0.16	17.75	21.98	40.63	61.70	127.40	5.04	3.31	5.30	1.60	0.85	0.45	
26	0.14	16.40	20.00	42.32	64.95	125.70	5.04	2.30	5.30	1.45	0.85	0.48	
27	0.14	15.65	19.40	43.76	70.40	122.30	5.25	2.22	5.10	1.45	0.85	0.45	
28	0.19	15.20	18.95	45.14	71.80	118.90	5.46	2.00	5.20	1.45	0.85	0.45	
29	0.33	14.90	9.54	45.50	67.16	115.50	5.29	1.85	5.20	1.45		0.42	
30	0.30	14.75	8.70	45.86	63.70	109.90	4.72	1.75	5.20	1.45		0.45	
31		14.60		45.86	60.45		10.03		5.20	1.45		0.80	
Total	5.84	875.73	512.04	764.94	1957.93	2495.73	1310.00	1085.86	141.56	65.87	31.10	15.61	9262.21 CMSDAY
Mean	0.19	28.25	17.07	24.68	63.16	83.19	42.26	36.20	4.57	2.12	1.11	0.50	25.38 CMS
Max	0.48	41.06	40.49	45.86	85.00	147.20	106.70	64.95	11.72	5.20	1.45	0.85	147.20 CMS
Min	0.11	0.90	6.70	10.42	40.70	36.44	4.44	1.75	0.50	1.45	0.80	0.42	0.11 CMS
Runoff	0.505	75.663	44.240	66.091	169.165	215.631	113.184	93.818	12.231	5.691	2.687	1.349	800.255 MCM

Momentary Peak 154.80 CMS, at 153.04 M (MSL), at 6.00 Hours, on Sep 22, 1996

Runoff Yield 14.39 Liters/Second/Square KM, Momentary Peak Yield 87.755 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

Lam Nam Kam at Ban Don Khao, Nakhon Phanom. (kh.64A)

Location Lat. 16°-57′-20″ N., Long. 104°-38′-27″ E., on left bank at the bridge on highway, Ban Don Khao , Amphoe Ranunakhon , Nakhon Phanom .

Drainage Area 3,345 sq.km.

Type of Gage Staff gage.

Zero Gage at Bottom +132.20 m.(M.S.L.)

Bench Mark B.M.-H.D.

Location On left bank downstream side at the abutment of the bridge.

Elevation +142.288 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 1996 to date.

Rating Operation

Period of Rating 1996 to date.

Rated by Float -

Rated by Current Meter 1996 to date.

Stability of Channel Regimes Fairly stable with variable water surface slope.

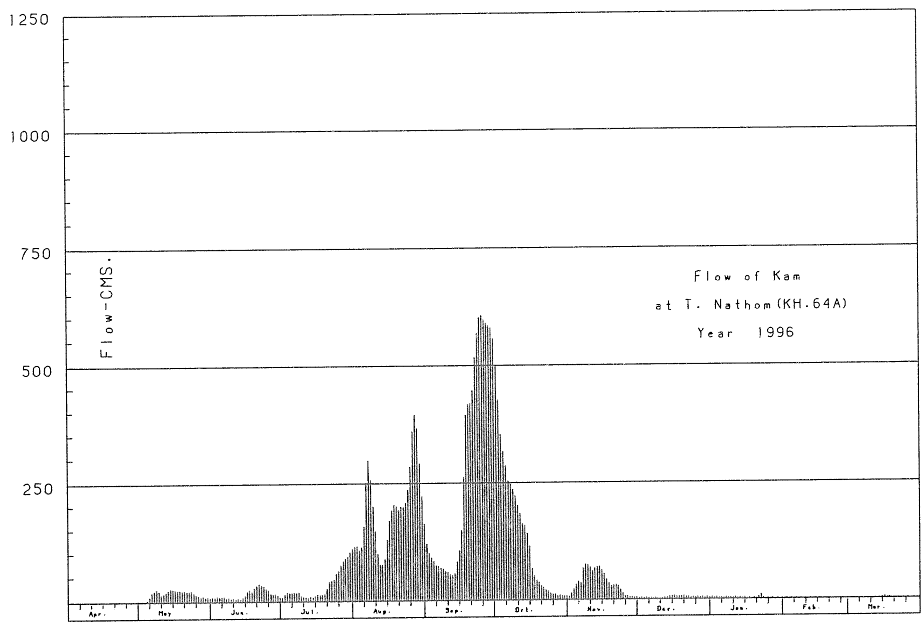
Overbank Flow Conditions No overbank flow.

General Description Records fair. Stage-discharge relation defined by 39 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	132.91	133.10	133.73	133.64	138.38	138.44	140.30	133.67	133.40	133.41	133.14	133.09	
2	132.90	133.10	133.75	134.04	138.37	138.14	139.75	133.95	133.40	133.41	133.15	133.08	
3	132.90	133.12	133.81	134.18	138.26	137.96	139.12	134.34	133.38	133.40	133.16	133.05	
4	132.90	133.28	133.83	134.18	138.34	137.72	138.80	134.63	133.35	133.40	133.15	133.03	
5	132.90	133.83	133.83	134.18	138.78	137.44	138.48	134.83	133.34	133.39	133.15	133.01	
6	132.90	134.16	133.79	134.18	139.31	137.31	138.17	134.78	133.30	133.39	133.16	133.00	
7	132.90	134.32	133.69	134.18	139.49	137.19	138.08	135.55	133.29	133.38	133.15	132.98	
8	132.95	134.40	133.67	134.16	139.34	137.02	137.98	135.70	133.29	133.37	133.16	132.98	
9	133.00	134.33	133.61	133.89	139.06	136.81	137.81	135.70	133.25	133.36	133.14	132.99	
10	132.98	133.96	133.58	133.68	138.69	136.57	137.59	135.57	133.24	133.35	133.14	132.97	
11	132.97	134.12	133.56	133.68	138.10	136.31	137.36	135.43	133.30	133.34	133.12	132.95	
12	132.91	134.24	133.56	133.67	137.56	136.04	137.11	135.51	133.35	133.33	133.19	132.99	
13	132.90	134.34	133.52	133.74	137.49	136.47	137.04	135.62	133.42	133.32	133.14	133.00	
14	132.89	134.49	133.66	133.76	137.90	137.69	136.83	135.59	133.54	133.31	133.14	133.09	
15	132.88	134.40	133.92	133.88	138.54	138.25	136.41	135.46	133.66	133.30	133.13	133.33	
16	132.88	134.37	134.29	133.95	138.85	138.70	135.55	135.26	133.64	133.29	133.12	133.37	
17	132.88	134.37	134.37	133.97	139.01	139.36	135.18	135.00	133.58	133.28	133.09	133.32	
18	132.89	134.33	134.26	133.96	139.07	139.72	134.96	134.71	133.51	133.27	133.06	133.26	
19	132.90	134.32	134.49	134.05	139.05	139.77	134.79	134.55	133.63	133.26	133.04	133.24	
20	132.98	134.31	134.70	134.42	139.01	139.77	134.60	134.56	133.62	133.25	133.04	133.21	
21	133.07	134.30	134.78	134.88	139.04	139.90	134.43	134.65	133.56	133.43	133.04	133.12	
22	133.01	134.30	134.72	135.00	139.05	140.43	134.29	134.53	133.50	133.84	133.03	133.08	
23	132.94	134.31	134.61	135.28	139.10	140.79	134.18	134.29	133.45	133.24	133.03	133.09	
24	132.98	134.18	134.48	136.42	139.24	141.01	134.04	133.96	133.46	133.23	133.03	133.10	
25	132.94	133.98	134.35	136.87	139.44	141.05	133.96	133.71	133.45	133.22	133.04	133.10	
26	132.90	133.89	134.14	137.50	139.65	140.99	133.87	133.62	133.45	133.21	133.04	133.09	
27	132.90	133.82	134.07	137.80	139.73	140.93	133.76	133.55	133.45	133.20	133.04	133.09	
28	132.92	133.80	134.02	137.90	139.66	140.90	133.80	133.50	133.44	133.18	133.04	133.09	
29	133.05	133.74	133.97	138.02	139.47	140.86	133.75	133.47	133.43	133.17		133.07	
30	133.04	133.72	133.66	138.18	139.17	140.70	133.67	133.42	133.43	133.15		133.05	
31		133.73		138.30	138.81		133.64		133.43	133.14		133.06	
Mean	132.94	134.02	134.01	135.02	138.87	138.81	136.11	134.64	133.44	133.32	133.10	133.09	
Max	133.07	134.49	134.78	138.30	139.73	141.05	140.30	135.70	133.66	133.84	133.19	133.37	141.05
Min	132.88	133.10	133.52	133.64	137.49	136.04	133.64	133.42	133.24	133.14	133.03	132.95	132.88

Annual Max Momentary Gage Height 141.06 M (MSL), at 6.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 132.20 M (MSL), River Bed 132.09 M (MSL)
Left Bank Elevation 142.00 M (MSL)
Right Bank Elevation 142.10 M (MSL), Drainage Area 3345 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.55	2.50	9.60	8.10	117.60	122.60	500.00	8.55	5.00	5.10	2.70	2.45	
2	1.50	2.50	10.00	16.00	116.90	102.00	428.00	14.00	5.00	5.10	2.75	2.40	
3	1.50	2.60	11.20	19.50	109.20	93.20	353.20	24.20	4.80	5.00	2.80	2.25	
4	1.50	3.80	11.60	19.50	114.80	83.70	319.00	32.96	4.50	5.00	2.75	2.15	
5	1.50	11.60	11.60	19.50	160.40	76.00	287.00	39.39	4.40	4.90	2.75	2.05	
6	1.50	19.00	10.80	19.50	252.40	73.20	256.15	37.76	4.00	4.90	2.80	2.00	
7	1.50	23.60	8.85	19.50	299.20	70.80	247.60	68.75	3.90	4.80	2.75	1.90	
8	1.75	26.00	8.55	19.00	259.60	67.40	238.20	76.00	3.90	4.70	2.80	1.90	
9	2.00	23.90	7.65	12.80	203.20	63.65	222.90	76.00	3.50	4.60	2.70	1.95	
10	1.90	14.20	7.20	8.70	148.80	60.31	203.65	69.65	3.40	4.50	2.70	1.85	
11	1.85	18.00	6.90	8.70	100.00	56.93	184.80	63.35	4.00	4.40	2.60	1.75	
12	1.55	21.20	6.90	8.55	79.00	53.60	164.80	66.95	4.50	4.30	2.95	1.95	
13	1.50	24.20	6.30	9.80	77.25	59.01	159.20	72.00	5.20	4.20	2.70	2.00	
14	1.45	28.70	8.40	10.20	90.50	82.70	144.10	70.55	6.60	4.10	2.70	2.45	
15	1.40	26.00	13.40	12.60	132.00	108.50	115.60	64.70	8.40	4.00	2.65	4.30	
16	1.40	25.10	22.70	14.00	170.50	150.00	68.75	55.70	8.10	3.90	2.60	4.70	
17	1.40	25.10	25.10	14.40	194.70	264.40	52.20	45.00	7.20	3.80	2.45	4.20	
18	1.45	23.90	21.80	14.20	204.90	394.80	43.68	35.52	6.15	3.70	2.30	3.60	
19	1.50	23.60	28.70	16.25	201.50	419.30	38.08	30.50	7.95	3.60	2.20	3.40	
20	1.90	23.30	35.20	26.60	194.70	419.30	32.00	30.80	7.80	3.50	2.20	3.10	
21	2.35	23.00	37.76	41.04	199.80	447.00	26.90	33.60	6.90	5.30	2.20	2.60	
22	2.05	23.00	35.84	45.00	201.50	518.20	22.70	29.90	6.00	11.80	2.15	2.40	
23	1.70	23.30	32.32	47.24	210.00	569.55	19.50	22.70	5.50	3.40	2.15	2.45	
24	1.90	19.50	28.40	58.36	236.80	601.50	16.00	14.20	5.60	3.30	2.15	2.50	
25	1.70	14.60	24.50	64.55	285.20	607.50	14.20	9.20	5.50	3.20	2.20	2.50	
26	1.50	12.80	18.50	77.50	362.50	598.55	12.40	7.80	5.50	3.10	2.20	2.45	
27	1.50	11.40	16.75	86.50	399.70	589.85	10.20	6.75	5.50	3.00	2.20	2.45	
28	1.60	11.00	15.50	90.50	367.00	585.50	11.00	6.00	5.40	2.90	2.20	2.45	
29	2.25	9.80	14.40	96.00	293.60	579.70	10.00	5.70	5.30	2.85		2.35	
30	2.20	9.40	8.40	104.00	222.60	556.50	8.55	5.20	5.30	2.75		2.25	
31		9.60		112.00	164.50		8.10		5.30	2.70		2.30	
Total	50.35	536.20	504.82	1120.09	6170.35	8475.25	4218.46	1123.58	170.10	132.40	70.30	,9.05	22650.75 CMSDAY
Mean	1.68	17.30	16.83	36.13	199.04	282.51	136.08	37.45	5.49	4.27	2.51	2.55	62.06 CMS
Max	2.35	28.70	37.76	112.00	399.70	607.50	500.00	76.00	8.40	11.80	2.95	4.70	607.50 CMS
Min	1.40	2.50	6.30	8.10	77.25	53.60	8.10	5.20	3.40	2.70	2.15	1.75	1.40 CMS
Runoff	4.350	46.328	43.616	96.776	533.118	732.262	364.475	97.060	14.697	11.439	6.074	6.830	1957.025 MCM

Momentary Peak 609.00 CMS, at 141.06 M (MSL), at 6.00 Hours, on Sep 25, 1996

Runoff Yield 18.55 Liters/Second/Square KM, Momentary Peak Yield 182.063 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

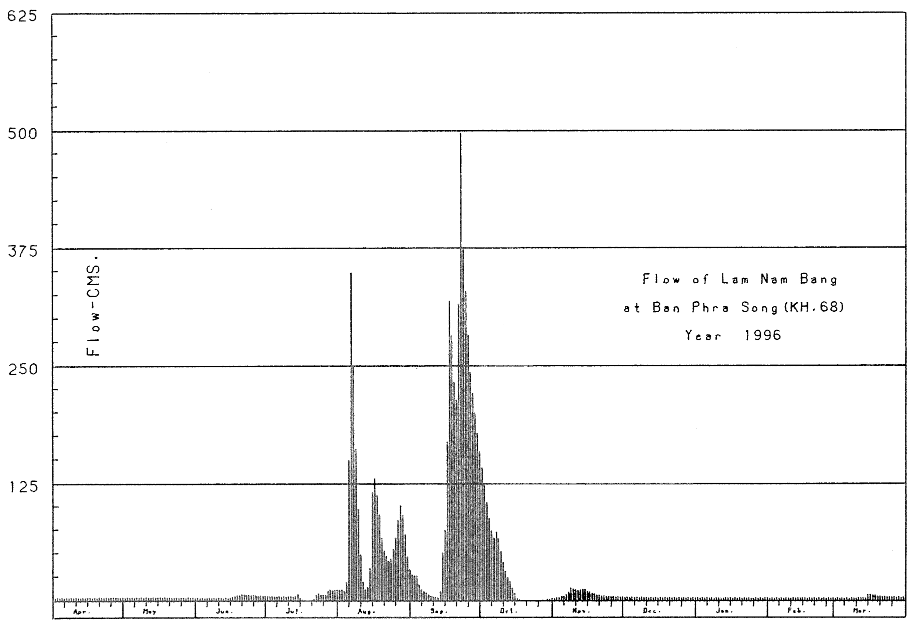
Lam Nam Bang at Ban Phra Song , Nakhon Phanom. (kh.68)

Location	Lat. 17°-00'-41" N., Long. 104°-34'-19" E., on left bank at the bridge on highway, Ban Phra Song , Amphoe Renunakhon , Nakhon Phanom .
Drainage Area	697 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+135.20 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank downstream side at the footpath of the bridge.
Elevation	+145.035 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	1982-1985, 1996 to date.
Rated by Float	-
Rated by Current Meter	1982-1985, 1996 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.57	137.67	137.54	137.92	138.81	139.48	141.13	137.48	137.78	137.64	137.57	137.57	
2	137.57	137.67	137.54	137.93	138.80	139.46	140.95	137.59	137.75	137.64	137.57	137.57	
3	137.58	137.67	137.54	137.92	138.68	139.45	140.76	137.70	137.74	137.63	137.57	137.57	
4	137.60	137.66	137.54	137.93	139.22	139.14	140.56	137.88	137.75	137.63	137.57	137.56	
5	137.60	137.66	137.55	137.90	141.20	138.81	140.38	138.04	137.75	137.63	137.57	137.56	
6	137.61	137.67	137.55	137.87	142.39	138.65	140.28	138.23	137.73	137.62	137.57	137.57	
7	137.62	137.69	137.54	137.86	141.88	138.47	140.37	138.56	137.72	137.62	137.57	137.58	
8	137.65	137.67	137.54	137.88	141.29	138.31	140.26	138.94	137.71	137.62	137.57	137.59	
9	137.65	137.66	137.55	137.85	140.68	137.95	140.05	138.91	137.70	137.61	137.57	137.60	
10	137.65	137.69	137.54	137.85	139.99	137.91	139.83	138.78	137.69	137.61	137.57	137.61	
11	137.65	137.72	137.53	137.86	139.26	137.75	139.59	138.76	137.68	137.60	137.57	137.61	
12	137.64	137.71	137.51	137.85	138.79	137.68	139.41	138.77	137.68	137.60	137.57	137.62	
13	137.63	137.70	137.55	137.93	139.00	138.65	139.25	138.90	137.67	137.60	137.57	137.62	
14	137.62	137.69	137.56	138.34	139.66	140.02	138.95	138.82	137.67	137.60	137.57	137.63	
15	137.61	137.68	137.61	137.57	140.87	140.39	138.37	138.70	137.66	137.60	137.57	138.22	
16	137.60	137.68	137.74	136.61	141.02	141.35	137.52	138.57	137.66	137.59	137.57	138.29	
17	137.61	137.67	137.95	136.53	140.84	142.25	136.92	138.48	137.65	137.59	137.57	138.25	
18	137.62	137.67	138.05	136.52	140.61	142.06	136.74	138.36	137.65	137.59	137.57	138.15	
19	137.63	137.66	138.17	136.50	140.27	141.79	136.63	138.25	137.65	137.59	137.57	138.04	
20	137.64	137.65	138.27	136.62	140.06	141.67	136.55	138.15	137.65	137.59	137.57	137.93	
21	137.65	137.64	138.23	136.96	139.95	142.23	136.51	138.06	137.65	137.59	137.57	137.91	
22	137.66	137.63	138.19	138.19	139.85	142.99	136.51	138.02	137.65	137.59	137.57	137.90	
23	137.66	137.62	138.19	138.38	139.89	142.50	136.47	137.97	137.64	137.58	137.57	137.87	
24	137.66	137.61	138.16	138.28	140.09	142.30	136.45	137.94	137.64	137.58	137.57	137.85	
25	137.65	137.60	138.15	138.16	140.27	142.07	136.43	137.90	137.64	137.58	137.57	137.82	
26	137.65	137.60	138.13	138.28	140.53	141.85	136.44	137.87	137.64	137.58	137.57	137.81	
27	137.66	137.60	138.00	138.66	140.72	141.72	136.67	137.85	137.63	137.58	137.57	137.78	
28	137.66	137.69	138.02	138.79	140.60	141.57	136.88	137.84	137.64	137.58	137.57	137.76	
29	137.67	137.68	137.98	138.74	140.33	141.42	137.05	137.82	137.64	137.58		137.74	
30	137.67	137.66	137.93	138.72	139.94	141.27	137.23	137.80	137.64	137.58		137.72	
31		137.55		138.77	139.64		137.36		137.64	137.57		137.71	
Mean	137.63	137.66	137.81	137.84	140.17	140.37	138.34	138.23	137.68	137.60	137.57	137.77	
Max	137.67	137.72	138.27	138.79	142.39	142.99	141.13	138.94	137.78	137.64	137.57	138.29	142.99
Min	137.57	137.55	137.51	136.50	138.68	137.68	136.43	137.48	137.63	137.57	137.57	137.56	136.43

Annual Max Momentary Gage Height 143.05 M (MSL), at 6.00 Hours, on Sep 22, 1996
Zero Gage at Bottom Elevation 135.20 M (MSL), River Bed 134.65 M (MSL)
Left Bank Elevation 144.87 M (MSL)
Right Bank Elevation 145.03 M (MSL), Drainage Area 697 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.43	3.85	3.35	5.10	12.10	27.80	142.30	3.20	4.40	3.70	3.43	3.43	
2	3.43	3.85	3.35	5.15	12.00	27.10	123.00	3.47	4.25	3.70	3.43	3.43	
3	3.45	3.85	3.35	5.10	10.80	26.75	105.40	4.00	4.20	3.65	3.43	3.43	
4	3.50	3.80	3.35	5.15	19.60	17.80	87.80	4.90	4.25	3.65	3.43	3.40	
5	3.50	3.80	3.37	5.00	150.00	12.10	74.60	5.70	4.25	3.65	3.43	3.40	
6	3.55	3.85	3.37	4.85	349.80	10.50	67.60	6.65	4.15	3.60	3.43	3.43	
7	3.60	3.95	3.35	4.80	248.60	8.70	73.90	9.60	4.10	3.60	3.43	3.45	
8	3.75	3.85	3.35	4.90	161.70	7.10	66.20	13.80	4.05	3.60	3.43	3.47	
9	3.75	3.80	3.37	4.75	98.20	5.25	53.00	13.20	4.00	3.55	3.43	3.50	
10	3.75	3.95	3.35	4.75	49.50	5.05	41.50	11.80	3.95	3.55	3.43	3.55	
11	3.75	4.10	3.32	4.80	20.80	4.25	31.65	11.60	3.90	3.50	3.43	3.55	
12	3.70	4.05	3.27	4.75	11.90	3.90	25.35	11.70	3.90	3.50	3.43	3.60	
13	3.65	4.00	3.37	5.15	15.00	10.50	20.50	13.00	3.85	3.50	3.43	3.60	
14	3.60	3.95	3.40	7.40	34.40	51.20	14.00	12.20	3.85	3.50	3.43	3.65	
15	3.55	3.90	3.55	3.43	115.30	75.30	7.70	11.00	3.80	3.50	3.43	6.60	
16	3.50	3.90	4.20	1.03	130.20	169.50	3.30	9.70	3.80	3.47	3.43	6.95	
17	3.55	3.85	5.25	0.82	112.60	320.00	1.80	8.80	3.75	3.47	3.43	6.75	
18	3.60	3.85	5.75	0.80	91.90	282.00	1.35	7.60	3.75	3.47	3.43	6.25	
19	3.65	3.80	6.35	0.75	66.90	233.30	1.08	6.75	3.75	3.47	3.43	5.70	
20	3.70	3.75	6.85	1.05	53.60	213.80	0.88	6.25	3.75	3.47	3.43	5.15	
21	3.75	3.70	6.65	1.90	47.50	316.00	0.77	5.80	3.75	3.47	3.43	5.05	
22	3.80	3.65	6.45	6.45	42.50	497.50	0.77	5.60	3.75	3.47	3.43	5.00	
23	3.80	3.60	6.45	7.80	44.50	376.00	0.68	5.35	3.70	3.45	3.43	4.85	
24	3.80	3.55	6.30	6.90	55.40	330.00	0.62	5.20	3.70	3.45	3.43	4.75	
25	3.75	3.50	6.25	6.30	66.90	284.00	0.57	5.00	3.70	3.45	3.43	4.60	
26	3.75	3.50	6.15	6.90	85.40	243.50	0.60	4.85	3.70	3.45	3.43	4.55	
27	3.80	3.50	5.50	10.60	101.80	221.40	1.17	4.75	3.65	3.45	3.43	4.40	
28	3.80	3.95	5.60	11.90	91.00	199.80	1.70	4.70	3.70	3.45	3.43	4.30	
29	3.85	3.90	5.40	11.40	71.10	178.80	2.13	4.60	3.70	3.45		4.20	
30	3.85	3.80	5.15	11.20	47.00	159.10	2.57	4.50	3.70	3.45		4.10	
31		3.37		11.70	33.60		2.90		3.70	3.43		4.05	
Total	109.91	117.72	138.77	172.58	2451.60	4318.00	957.39	225.27	120.45	109.07	96.04	136.14	8952.94 CMSDAY
Mean	3.66	3.80	4.63	5.57	79.08	143.93	30.88	7.51	3.89	3.52	3.43	4.39	24.53 CMS
Max	3.85	4.10	6.85	11.90	349.80	497.50	142.30	13.80	4.40	3.70	3.43	6.95	497.50 CMS
Min	3.43	3.37	3.27	0.75	10.80	3.90	0.57	3.20	3.65	3.43	3.43	3.40	0.57 CMS
Runoff	9.496	10.171	11.990	14.911	211.818	373.075	82.719	19.463	10.407	9.424	8.298	11.762	773.534 MCM

Momentary Peak 513.00 CMS, at 143.05 M (MSL), at 6.00 Hours, on Sep 22, 1996
Runoff Yield 35.19 Liters/Second/Square KM, Momentary Peak Yield 736.011 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

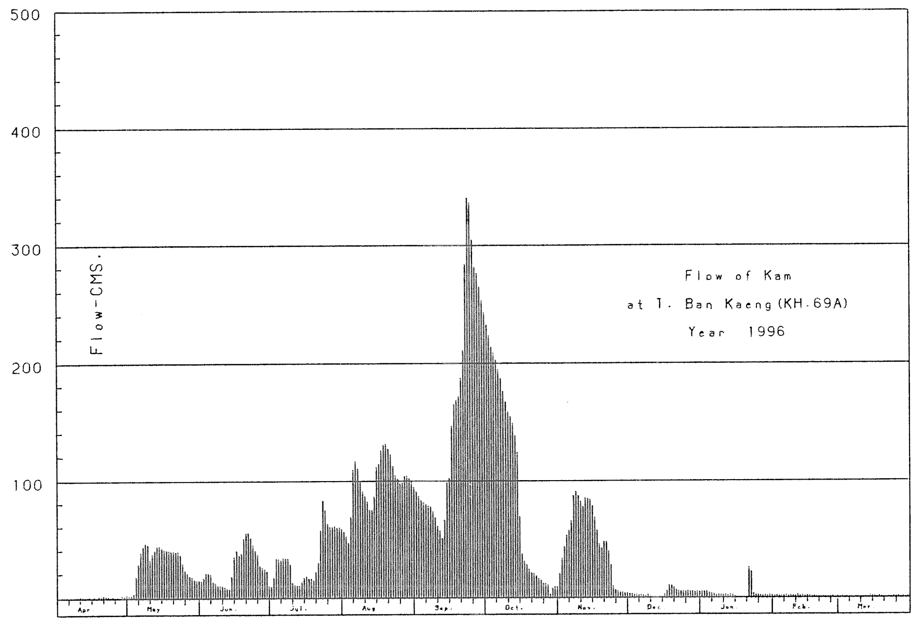
Lam Nam Kam at Ban Nong Rua Thong , Nakhon Phanom. (kh.69A)

Location	Lat. 16°-57'-36" N., Long. 104°-28'-01" E., on right bank at the bridge on highway, Ban Nong Rua Thong , Amphoe Nakae , Nakhon Phanom .
Drainage Area	1,932 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+139.50 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the footpath of the bridge.
Elevation	+149.494 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 1996

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.16	140.33	140.89	140.76	142.14	143.06	145.74	141.00	140.47	140.56	140.34	140.26	
2	140.15	140.35	140.94	140.95	142.02	142.96	145.65	141.45	140.44	140.58	140.34	140.26	
3	140.15	140.45	141.01	141.45	141.87	142.87	145.55	141.78	140.42	140.57	140.33	140.25	
4	140.15	140.96	141.02	141.43	142.50	142.82	145.49	142.04	140.41	140.52	140.34	140.25	
5	140.15	141.28	140.99	141.41	143.51	142.79	145.42	142.17	140.40	140.47	140.33	140.24	
6	140.15	141.62	140.88	141.46	143.69	142.75	145.30	142.39	140.38	140.45	140.34	140.23	
7	140.15	141.78	140.85	141.46	143.55	142.74	145.19	142.97	140.40	140.33	140.33	140.23	
8	140.20	141.85	140.80	141.44	143.29	142.62	145.01	143.05	140.27	140.41	140.32	140.23	
9	140.25	141.83	140.78	141.29	143.06	142.49	144.85	142.97	140.42	140.40	140.33	140.23	
10	140.24	141.41	140.79	140.86	142.96	142.27	144.66	142.84	140.28	140.40	140.32	140.23	
11	140.25	141.57	140.74	140.80	142.84	142.16	144.58	142.73	140.22	140.38	140.39	140.23	
12	140.22	141.68	140.70	140.80	142.66	141.98	144.45	142.91	140.22	140.36	140.34	140.23	
13	140.23	141.79	140.67	140.78	142.66	142.43	144.21	142.91	140.21	140.40	140.33	140.23	
14	140.23	141.78	140.96	140.87	142.95	143.24	143.86	142.88	140.23	140.39	140.32	140.34	
15	140.21	141.74	141.49	140.94	143.56	143.34	142.51	142.75	140.24	140.24	140.32	140.32	
16	140.24	141.70	141.68	140.96	143.64	144.40	141.59	142.48	140.41	140.20	140.30	140.29	
17	140.21	141.69	141.53	140.93	143.90	144.81	141.37	142.18	140.62	140.20	140.29	140.25	
18	140.27	141.67	141.60	140.93	144.03	144.88	141.28	141.83	140.78	140.19	140.28	140.31	
19	140.28	141.66	141.97	140.91	144.04	144.94	141.14	141.74	140.79	140.19	140.29	140.30	
20	140.35	141.66	142.11	141.06	143.95	145.19	141.03	141.89	140.72	140.20	140.28	140.24	
21	140.26	141.65	142.12	141.34	143.83	145.52	141.00	141.90	140.65	141.19	140.27	140.23	
22	140.24	141.65	142.00	142.17	143.60	146.08	140.97	141.65	140.60	141.07	140.26	140.22	
23	140.24	141.56	141.82	142.87	143.40	146.27	140.93	141.27	140.60	140.45	140.25	140.25	
24	140.23	141.31	141.68	142.65	143.33	146.26	140.91	140.77	140.59	140.41	140.25	140.26	
25	140.23	141.12	141.56	142.34	143.23	146.18	140.85	140.65	140.59	140.40	140.27	140.26	
26	140.21	141.01	141.25	142.25	143.24	146.07	140.83	140.59	140.60	140.32	140.27	140.27	
27	140.20	140.97	141.19	142.26	143.39	146.04	140.80	140.54	140.59	140.36	140.26	140.25	
28	140.33	140.95	141.14	142.27	143.39	145.98	140.45	140.51	140.57	140.35	140.27	140.26	
29	140.31	140.92	141.09	142.24	143.34	145.91	140.70	140.49	140.57	140.36		140.25	
30	140.36	140.90	140.78	142.24	143.26	145.83	140.74	140.48	140.57	140.35		140.24	
31		140.91		142.20	143.15		140.74		140.57	140.34		140.30	
Mean	140.23	141.35	141.23	141.49	143.23	144.16	142.83	141.86	140.48	140.42	140.31	140.26	
Max	140.36	141.85	142.12	142.87	144.04	146.27	145.74	143.05	140.79	141.19	140.39	140.34	146.27
Min	140.15	140.33	140.67	140.76	141.87	141.98	140.45	140.48	140.21	140.19	140.25	140.22	140.15

Annual Max Momentary Gage Height 6.79 M (MSL), at 6.00 Hours, on Sep 24, 1996
Zero Gage at Bottom Elevation 139.50 M (MSL), River Bed 139.41 M (MSL)
Left Bank Elevation 149.19 M (MSL)
Right Bank Elevation 149.22 M (MSL), Drainage Area 1932 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	2.30	14.60	10.00	56.90	91.40	233.40	21.00	4.05	5.40	2.40	1.60	
2	0.60	2.50	17.40	18.00	52.70	87.40	224.00	34.00	3.60	5.70	2.40	1.60	
3	0.60	3.75	21.25	34.00	47.45	83.80	214.50	44.30	3.30	5.55	2.30	1.50	
4	0.60	18.60	21.50	33.40	69.50	81.80	209.20	53.40	3.15	4.80	2.40	1.50	
5	0.60	28.90	20.40	32.80	109.62	80.60	203.60	57.95	3.00	4.05	2.30	1.40	
6	0.60	39.10	14.20	34.30	117.18	79.00	195.00	65.65	2.80	3.75	2.40	1.30	
7	0.60	44.30	13.00	34.30	111.30	78.60	187.85	87.80	3.00	2.30	2.30	1.30	
8	1.00	46.75	11.00	33.70	100.60	74.00	176.60	91.00	1.70	3.15	2.20	1.30	
9	1.50	46.05	10.50	29.20	91.40	69.15	167.70	87.80	3.30	3.00	2.30	1.30	
10	1.40	32.80	10.75	13.40	87.40	61.45	158.96	82.60	1.80	3.00	2.20	1.30	
11	1.50	37.60	9.50	11.00	82.60	57.60	155.28	78.20	1.20	2.80	2.90	1.30	
12	1.20	40.90	8.50	11.00	75.50	51.30	149.30	85.40	1.20	2.60	2.40	1.30	
13	1.30	44.65	7.75	10.50	75.50	67.05	139.02	85.40	1.10	3.00	2.30	1.30	
14	1.30	44.30	18.60	13.80	87.00	98.60	124.32	84.20	1.30	2.90	2.20	2.40	
15	1.10	42.90	35.20	17.40	111.72	102.60	69.87	79.00	1.40	1.40	2.20	2.20	
16	1.40	41.50	40.90	18.60	115.08	147.00	38.20	68.80	3.15	1.00	2.00	1.90	
17	1.10	41.20	36.40	16.80	126.00	165.86	31.60	58.30	6.50	1.00	1.90	1.50	
18	1.70	40.60	38.50	16.80	131.46	169.08	28.90	46.05	10.50	0.92	1.80	2.10	
19	1.80	40.30	50.95	15.60	131.88	172.40	24.70	42.90	10.75	0.92	1.90	2.00	
20	2.50	40.30	55.85	22.50	128.10	187.85	21.75	48.15	9.00	1.00	1.80	1.40	
21	1.60	40.00	56.20	30.70	123.06	211.80	21.00	48.50	7.25	26.20	1.70	1.30	
22	1.40	40.00	52.00	57.95	113.40	284.20	19.20	40.00	6.00	22.75	1.60	1.20	
23	1.40	37.30	45.70	83.80	105.00	341.50	16.80	28.60	6.00	3.75	1.50	1.50	
24	1.30	29.80	40.90	75.12	102.20	337.00	15.60	10.25	5.85	3.15	1.50	1.60	
25	1.30	24.10	37.30	63.90	98.20	305.60	13.00	7.25	5.85	3.00	1.70	1.60	
26	1.10	21.25	28.00	60.75	98.60	282.30	12.20	5.85	6.00	2.20	1.70	1.70	
27	1.00	19.20	26.20	61.10	104.60	276.60	11.00	5.10	5.85	2.60	1.60	1.50	
28	2.30	18.00	24.70	61.45	104.60	265.60	3.75	4.65	5.55	2.50	1.70	1.60	
29	2.10	16.20	23.25	60.40	102.60	253.70	8.50	4.35	5.55	2.60		1.50	
30	2.60	15.00	10.50	60.40	99.40	243.60	9.50	4.20	5.55	2.50		1.40	
31		15.60		59.00	95.00		9.50		5.55	2.40		2.00	
Total	39.18	955.75	801.50	1101.67	3055.55	4808.44	2893.80	1460.65	140.80	131.89	57.60	48.40	15495.23 CMSDAY
Mean	1.31	30.83	26.72	35.54	98.57	160.28	93.35	48.69	4.54	4.25	2.06	1.56	42.45 CMS
Max	2.60	46.75	56.20	83.80	131.88	341.50	233.40	91.00	10.75	26.20	2.90	2.40	341.50 CMS
Min	0.60	2.30	7.75	10.00	47.45	51.30	3.75	4.20	1.10	0.92	1.50	1.20	0.60 CMS
Runoff	3.385	82.577	69.250	95.184	264.000	415.449	250.024	126.200	12.165	11.395	4.977	4.182	1338.788 MCM

Momentary Peak 0.00 CMS, at 6.79 M (MSL), at 6.00 Hours, on Sep 24, 1996

Runoff Yield 21.97 Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

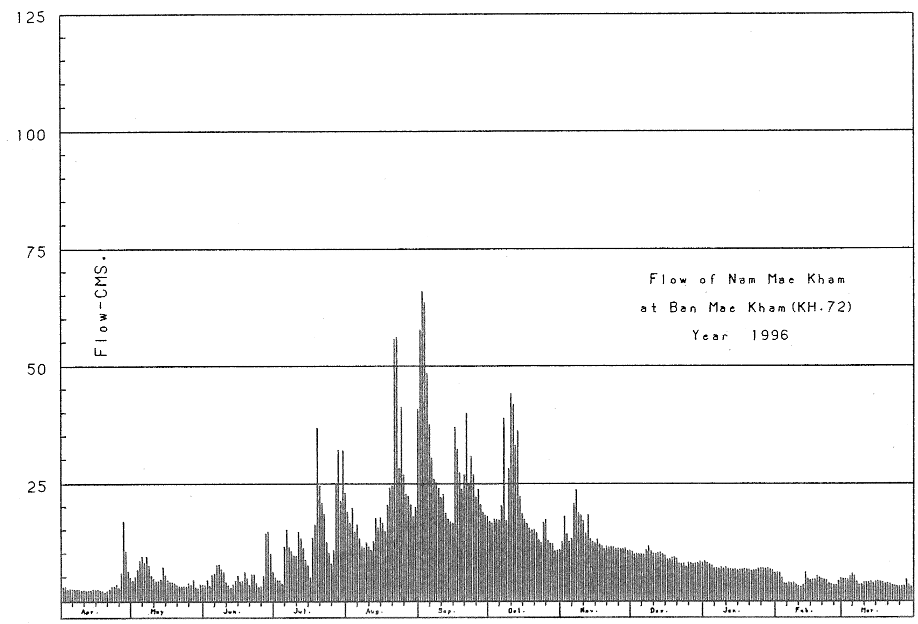
Nam Mae Kham at Ban Mae Kham, Chiang Rai (Kh.72)

Location	Lat. 20°-13′-03″ N., Long. 99°-51′-38″ E., on right bank at the bridge of Mae Chan - Mae Sai Highway, Amphoe Mae Chan, Chiang Rai.
Drainage Area	644 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Temporary.
Location	On right bank about 20 meters from the top staff gage.
Elevation	+4.354 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1982 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Rather unstable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 58 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.46	1.56	1.48	1.60	2.29	3.38	2.21	2.26	2.17	2.08	1.95	1.59	
2	1.45	1.61	1.57	1.57	2.19	3.52	2.19	2.47	2.15	2.06	1.95	1.58	
3	1.40	1.71	1.48	1.56	2.33	3.48	2.23	2.33	2.15	2.05	1.88	1.58	
4	1.40	1.81	1.63	1.52	2.11	3.21	2.22	2.26	2.15	2.03	1.80	1.62	
5	1.40	1.85	1.66	1.96	2.18	2.92	2.22	2.29	2.15	2.00	1.79	1.66	
6	1.40	1.79	1.76	2.13	2.05	2.71	2.35	2.56	2.14	2.00	1.80	1.62	
7	1.40	1.86	1.77	1.96	1.96	2.56	3.12	2.66	2.19	2.00	1.80	1.55	
8	1.39	1.75	1.71	1.91	1.95	2.53	2.43	2.49	2.22	2.01	1.80	1.49	
9	1.38	1.63	1.68	1.87	2.01	2.49	2.81	2.48	2.18	2.00	1.77	1.51	
10	1.37	1.58	1.54	1.86	1.96	2.42	3.25	2.43	2.15	2.01	1.73	1.53	
11	1.37	1.55	1.48	2.11	1.93	2.44	3.20	2.33	2.15	2.00	1.72	1.54	
12	1.36	1.55	1.43	2.05	2.02	2.28	2.96	2.48	2.16	1.99	1.77	1.54	
13	1.38	1.58	1.50	1.95	2.24	2.23	3.05	2.29	2.16	1.99	1.67	1.54	
14	1.39	1.74	1.55	1.82	2.15	2.20	2.61	2.26	2.15	1.99	1.59	1.53	
15	1.39	1.63	1.63	1.76	2.24	2.19	2.49	2.25	2.13	1.98	1.57	1.54	
16	1.39	1.56	1.55	1.60	2.19	2.90	2.44	2.28	2.10	1.98	1.57	1.55	
17	1.38	1.54	1.55	2.05	2.12	2.77	2.41	2.24	2.10	1.99	1.58	1.55	
18	1.35	1.53	1.68	2.18	2.36	2.61	2.37	2.22	2.11	1.99	1.62	1.53	
19	1.33	1.52	1.59	2.90	2.49	2.48	2.36	2.20	2.12	1.99	1.61	1.52	
20	1.35	1.48	1.50	2.51	2.51	2.59	2.36	2.22	2.10	1.98	1.58	1.52	
21	1.40	1.47	1.64	2.37	3.34	2.99	2.34	2.21	2.05	1.98	1.58	1.51	
22	1.45	1.46	1.65	2.27	3.35	2.52	2.28	2.22	2.05	1.98	1.56	1.50	
23	1.47	1.46	1.52	2.01	2.64	2.72	2.25	2.21	2.05	1.97	1.53	1.47	
24	1.50	1.46	1.45	1.89	3.02	2.59	2.42	2.20	2.02	2.00	1.50	1.47	
25	1.43	1.52	1.46	1.78	2.59	2.42	2.44	2.20	2.06	2.00	1.50	1.45	
26	1.66	1.49	1.62	1.92	2.44	2.48	2.27	2.20	2.06	2.00	1.49	1.46	
27	2.21	1.57	2.10	2.52	2.43	2.36	2.25	2.20	2.05	2.00	1.56	1.48	
28	1.91	1.44	2.11	2.76	2.36	2.29	2.24	2.20	2.05	2.00	1.59	1.58	
29	1.69	1.41	1.89	2.39	2.25	2.26	2.18	2.18	2.06	1.99		1.49	
30	1.60	1.51	1.68	2.76	2.33	2.25	2.18	2.18	2.07	1.97		1.46	
31		1.49		2.45	3.01		2.19		2.06	1.95		1.51	
Mean	1.47	1.58	1.63	2.06	2.36	2.63	2.46	2.30	2.11	2.00	1.67	1.53	
Max	2.21	1.86	2.11	2.90	3.35	3.52	3.25	2.66	2.22	2.08	1.95	1.66	3.52
Min	1.33	1.41	1.43	1.52	1.93	2.19	2.18	2.18	2.02	1.95	1.49	1.45	1.33

Annual Max Momentary Gage Height	4.22 M (A.D), at 22.00 Hours, on Aug 21, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed 0.75 M (A.D)
Left Bank Elevation	6.26 M (A.D)
Right Bank Elevation	6.02 M (A.D), Drainage Area 644 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.13	4.40	3.32	5.00	18.97	57.90	17.09	12.64	10.54	8.60	6.15	4.85	
2	3.04	5.16	4.55	4.55	16.62	66.06	16.62	18.19	10.10	8.20	6.15	4.70	
3	2.58	6.78	3.32	4.40	19.92	63.64	17.56	14.41	10.10	8.00	5.02	4.70	
4	2.58	8.59	5.48	3.80	14.73	48.55	17.32	12.64	10.10	7.60	3.90	5.32	
5	2.58	9.38	5.96	11.58	16.38	37.70	17.32	13.36	10.10	7.00	3.79	5.96	
6	2.58	8.22	7.68	15.21	13.45	30.53	20.40	20.80	9.88	7.00	3.90	5.32	
7	2.58	9.57	7.86	11.58	11.58	26.08	38.96	23.80	10.98	7.00	3.90	4.25	
8	2.49	7.50	6.78	10.56	11.38	25.24	17.11	18.73	11.68	7.20	3.90	3.41	
9	2.39	5.48	6.28	9.77	12.61	24.12	28.32	18.46	10.76	7.00	3.57	3.65	
10	2.30	4.70	4.10	9.57	11.58	22.16	44.15	17.11	10.10	7.20	3.13	3.95	
11	2.30	4.25	3.32	14.73	10.96	22.72	42.00	14.41	10.10	7.00	3.02	4.10	
12	2.21	4.25	2.86	13.45	12.82	18.73	33.18	18.46	10.32	6.83	3.57	4.10	
13	2.39	4.70	3.50	11.38	17.79	17.56	36.35	13.36	10.32	6.83	6.12	4.10	
14	2.49	7.32	4.25	8.79	15.68	16.85	22.30	12.64	10.10	6.83	4.85	3.95	
15	2.49	5.48	5.48	7.68	17.79	16.62	18.73	12.40	9.66	6.66	4.55	4.10	
16	2.49	4.40	4.25	5.00	16.62	37.00	17.38	13.12	9.00	6.66	4.55	4.25	
17	2.39	4.10	4.25	13.45	14.97	32.51	16.57	12.16	9.00	6.83	4.70	4.25	
18	2.12	3.95	6.28	16.38	20.64	27.50	15.49	11.68	9.22	6.83	5.32	3.95	
19	1.93	3.80	4.85	37.00	24.12	23.84	15.22	11.20	9.44	6.83	5.16	3.80	
20	2.12	3.32	3.50	24.68	24.68	26.92	15.22	11.68	9.00	6.66	4.70	3.80	
21	2.58	3.22	5.64	20.88	55.70	40.15	14.68	11.44	8.00	6.66	4.70	3.65	
22	3.04	3.13	5.80	18.50	56.25	24.96	13.12	11.68	8.00	6.66	4.40	3.50	
23	3.22	3.13	3.80	12.61	28.40	30.86	12.40	11.44	8.00	6.49	3.95	3.22	
24	3.50	3.13	3.04	10.16	41.28	26.92	16.84	11.20	7.40	7.00	3.50	3.22	
25	2.86	3.80	3.13	8.04	26.92	22.16	17.38	11.20	8.20	7.00	3.50	3.04	
26	5.96	3.41	5.32	10.76	22.72	23.84	12.88	11.20	8.20	7.00	3.41	3.13	
27	17.09	4.55	14.50	24.96	22.44	20.64	12.40	11.20	8.00	7.00	4.40	3.32	
28	10.56	2.95	14.73	32.18	20.64	18.97	12.16	11.20	8.00	7.00	4.85	4.70	
29	6.44	2.67	10.16	21.36	18.03	18.26	10.76	10.76	8.20	6.83		3.41	
30	5.00	3.65	6.28	32.18	19.92	18.03	10.76	10.76	8.40	6.49		3.13	
31		3.41		23.00	40.89		10.98		8.20	6.15		3.65	
Total	109.43	152.40	170.27	453.19	676.48	887.02	611.65	413.33	289.10	217.04	122.66	124.48	4227.05 CMSDAY
Mean	3.65	4.92	5.68	14.62	21.82	29.57	19.73	13.78	9.33	7.00	4.38	4.02	11.58 CMS
Max	17.09	9.57	14.73	37.00	56.25	66.06	44.15	23.80	11.68	8.60	6.15	5.96	66.06 CMS
Min	1.93	2.67	2.86	3.80	10.96	16.62	10.76	10.76	7.40	6.15	3.02	3.04	1.93 CMS
Runoff	9.455	13.167	14.711	39.156	58.448	76.639	52.847	35.712	24.978	18.752	10.598	10.755	365.217 MCM

Momentary Peak 134.40 CMS, at 4.22 M (A.D), at 22.00 Hours, on Aug 21, 1996
Runoff Yield 17.98 Liters/Second/Square KM, Momentary Peak Yield 208.696 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

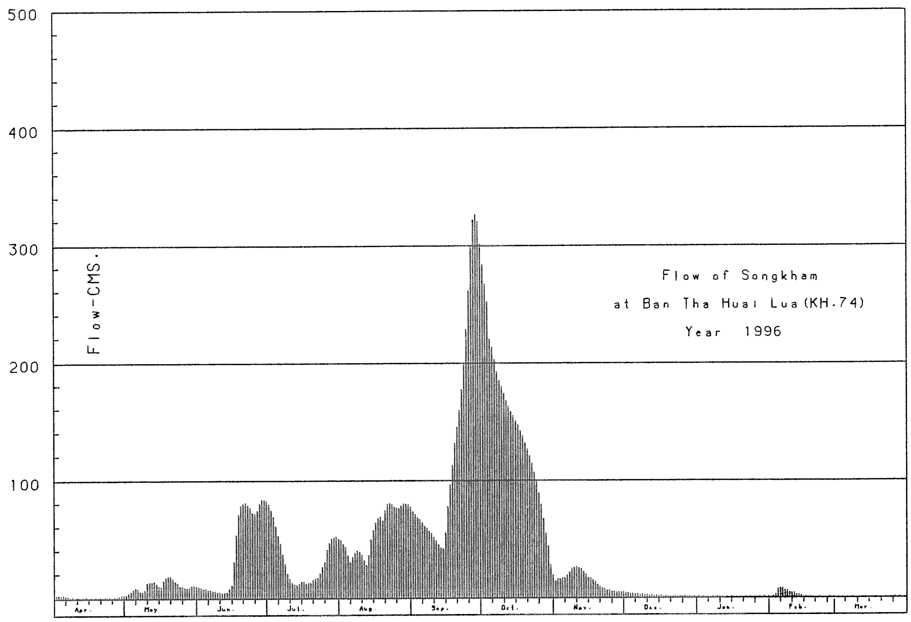
Songkram River at Ban Tha Huai Lua, Sakon Nakhon (Kh.74)

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.Oo, 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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The weir situated about 10 kilometers downstream from the gage site. Stage-discharge relation defined by 105 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.04	2.04	2.36	6.02	4.43	5.72	9.59	2.56	2.13	1.96	1.94	1.92	
2	2.03	2.13	2.31	5.78	4.25	5.57	9.48	2.62	2.10	1.95	1.96	1.91	
3	2.03	2.16	2.30	5.47	4.02	5.47	9.36	2.67	2.09	1.95	2.07	1.90	
4	2.04	2.27	2.27	5.10	3.76	5.36	9.23	2.70	2.08	1.95	2.24	1.90	
5	2.03	2.33	2.25	4.67	3.46	5.24	9.21	2.76	2.08	1.95	2.30	1.89	
6	1.99	2.27	2.23	4.25	3.66	5.10	9.16	2.87	2.07	1.95	2.28	1.89	
7	1.96	2.20	2.21	3.80	3.84	5.00	9.09	3.02	2.06	1.95	2.23	1.88	
8	1.95	2.15	2.18	3.38	3.90	4.88	9.03	3.16	2.06	1.95	2.19	1.88	
9	1.94	2.25	2.16	2.99	3.88	4.75	8.98	3.22	2.05	1.94	2.15	1.89	
10	1.93	2.48	2.14	2.67	3.75	4.58	8.92	3.24	2.04	1.95	2.13	1.89	
11	1.93	2.53	2.13	2.51	3.53	4.40	8.84	3.21	2.03	1.95	2.09	1.90	
12	1.93	2.53	2.12	2.44	3.34	4.21	8.76	3.15	2.03	1.94	2.06	1.90	
13	1.94	2.53	2.17	2.43	3.74	3.98	8.68	3.05	2.02	1.94	2.03	1.90	
14	1.93	2.48	2.27	2.46	4.49	3.97	8.59	2.91	2.02	1.94	2.00	1.91	
15	1.92	2.36	2.41	2.55	4.92	4.53	8.49	2.78	2.01	1.94	1.97	1.91	
16	1.92	2.35	3.49	2.53	5.22	5.40	8.39	2.68	2.01	1.94	1.95	1.91	
17	1.92	2.58	4.68	2.48	5.43	6.06	8.28	2.59	2.00	1.93	1.95	1.90	
18	1.92	2.76	5.59	2.48	5.46	6.66	8.17	2.52	1.98	1.93	1.94	1.90	
19	1.93	2.86	5.95	2.50	5.32	7.27	8.01	2.44	1.98	1.93	1.94	1.91	
20	1.93	2.84	6.05	2.57	5.74	7.75	7.84	2.35	1.98	1.93	1.93	1.91	
21	1.93	2.69	6.07	2.66	6.02	8.10	7.67	2.31	1.98	1.93	1.93	1.91	
22	1.93	2.55	5.99	2.77	6.07	8.46	7.44	2.27	1.98	1.93	1.93	1.90	
23	1.93	2.47	5.86	2.99	5.99	8.80	7.18	2.23	1.98	1.95	1.93	1.90	
24	1.92	2.39	5.67	3.23	5.91	9.14	6.87	2.20	1.97	1.96	1.92	1.90	
25	1.92	2.35	5.59	3.47	5.84	9.44	6.48	2.18	1.97	1.96	1.92	1.91	
26	1.93	2.34	5.76	3.93	5.86	9.67	6.00	2.15	1.97	1.96	1.92	1.91	
27	1.96	2.32	6.06	4.30	5.96	9.78	5.42	2.15	1.97	1.96	1.92	1.90	
28	2.00	2.31	6.19	4.49	6.03	9.80	4.75	2.14	1.96	1.96	1.92	1.89	
29	2.03	2.40	6.23	4.57	6.04	9.77	4.14	2.15	1.96	1.95		1.89	
30	2.04	2.39	6.14	4.60	6.00	9.68	3.33	2.14	1.96	1.94		1.89	
31		2.38		4.53	5.90		2.89		1.96	1.94		1.89	
Mean	1.96	2.41	3.96	3.57	4.90	6.62	7.69	2.61	2.02	1.95	2.03	1.90	
Max	2.04	2.86	6.23	6.02	6.07	9.80	9.59	3.24	2.13	1.96	2.30	1.92	9.80
Min	1.92	2.04	2.12	2.43	3.34	3.97	2.89	2.14	1.96	1.93	1.92	1.88	1.88

Annual Max Momentary Gage Height 9.80 M (A.D), at 6.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 M (A.D)
Left Bank Elevation 11.40 M (A.D)
Right Bank Elevation 11.36 M (A.D), Drainage Area 2145 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.90	2.90	10.10	80.40	49.64	74.40	284.40	15.00	4.93	1.60	1.40	1.20	
2	2.68	4.93	8.97	75.60	46.75	71.40	267.40	16.20	4.25	1.50	1.60	1.10	
3	2.68	5.60	8.75	69.40	43.70	69.40	252.60	16.70	4.03	1.50	3.58	1.00	
4	2.90	8.07	8.07	62.00	37.20	67.20	220.80	17.00	3.80	1.50	7.40	1.00	
5	2.68	9.42	7.63	53.86	31.20	64.80	213.60	17.60	3.80	1.50	8.75	0.90	
6	1.90	8.07	7.18	46.75	35.20	62.00	203.60	19.40	3.58	1.50	8.30	0.90	
7	1.60	6.50	6.73	38.00	39.00	60.00	192.80	22.40	3.35	1.50	7.18	0.80	
8	1.50	5.38	6.05	29.60	40.50	57.64	185.60	25.20	3.35	1.50	6.28	0.80	
9	1.40	7.63	5.60	21.80	40.00	55.30	180.20	26.40	3.13	1.40	5.38	0.90	
10	1.30	13.00	5.15	16.70	37.00	52.24	174.80	26.80	2.90	1.50	4.93	0.90	
11	1.30	14.25	4.93	13.75	32.60	49.15	168.80	26.20	2.68	1.50	4.03	1.00	
12	1.30	14.25	4.70	12.00	28.80	46.15	163.60	25.00	2.68	1.40	3.35	1.00	
13	1.40	14.25	5.83	11.75	36.80	42.90	159.20	23.00	2.45	1.40	2.68	1.00	
14	1.30	13.00	8.07	12.50	50.63	42.60	155.60	20.20	2.45	1.40	2.00	1.10	
15	1.20	10.10	11.25	14.75	58.40	56.25	151.60	17.80	2.23	1.40	1.70	1.10	
16	1.20	9.87	31.80	14.25	64.40	78.50	147.60	16.80	2.23	1.40	1.50	1.10	
17	1.20	15.50	54.04	13.00	68.60	96.65	143.20	15.75	2.00	1.30	1.50	1.00	
18	1.20	17.60	71.80	13.00	69.20	113.80	138.80	14.00	1.80	1.30	1.40	1.00	
19	1.30	19.20	79.00	13.50	66.40	132.10	132.85	12.00	1.80	1.30	1.40	1.10	
20	1.30	18.80	81.00	15.25	74.80	146.50	127.20	9.87	1.80	1.30	1.30	1.10	
21	1.30	16.90	81.40	16.60	80.40	160.00	122.10	8.97	1.80	1.30	1.30	1.10	
22	1.30	14.75	79.80	17.70	81.40	178.00	115.20	8.07	1.80	1.30	1.30	1.00	
23	1.30	12.75	77.20	21.80	79.80	200.00	107.86	7.18	1.80	1.50	1.30	1.00	
24	1.20	10.78	73.40	26.60	78.20	229.00	99.20	6.50	1.70	1.60	1.20	1.00	
25	1.20	9.87	71.80	31.40	76.80	262.20	90.05	6.05	1.70	1.60	1.20	1.10	
26	1.30	9.65	75.20	41.40	77.20	299.30	80.00	5.38	1.70	1.60	1.20	1.10	
27	1.60	9.20	81.20	47.50	79.20	322.60	68.40	5.38	1.70	1.60	1.20	1.00	
28	2.00	8.97	83.80	50.63	80.60	327.00	55.30	5.15	1.60	1.60	1.20	0.90	
29	2.68	11.00	84.60	52.06	80.80	320.40	45.10	5.38	1.60	1.50		0.90	
30	2.90	10.78	82.80	52.60	80.00	301.20	28.60	5.15	1.60	1.40		0.90	
31		10.55		51.34	78.00		19.80		1.60	1.40		0.90	
Total	51.02	343.52	1217.85	1037.49	1823.22	4038.68	4495.86	446.53	77.84	45.10	85.56	30.90	13693.57 CMSDAY
Mean	1.70	11.08	40.60	33.47	58.81	134.62	145.03	14.88	2.51	1.45	3.06	1.00	37.52 CMS
Max	2.90	19.20	84.60	80.40	81.40	327.00	284.40	26.80	4.93	1.60	8.75	1.20	327.00 CMS
Min	1.20	2.90	4.70	11.75	28.80	42.60	19.80	5.15	1.60	1.30	1.20	0.80	0.80 CMS
Runoff	4.408	29.680	105.222	89.639	157.526	348.942	388.442	38.580	6.725	3.897	7.392	2.670	1183.125 MCM

Momentary Peak 327.00 CMS, at 9.80 M (A.D), at 6.00 Hours, on Sep 28, 1996

Runoff Yield 17.49 Liters/Second/Square KM, Momentary Peak Yield 152.448 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

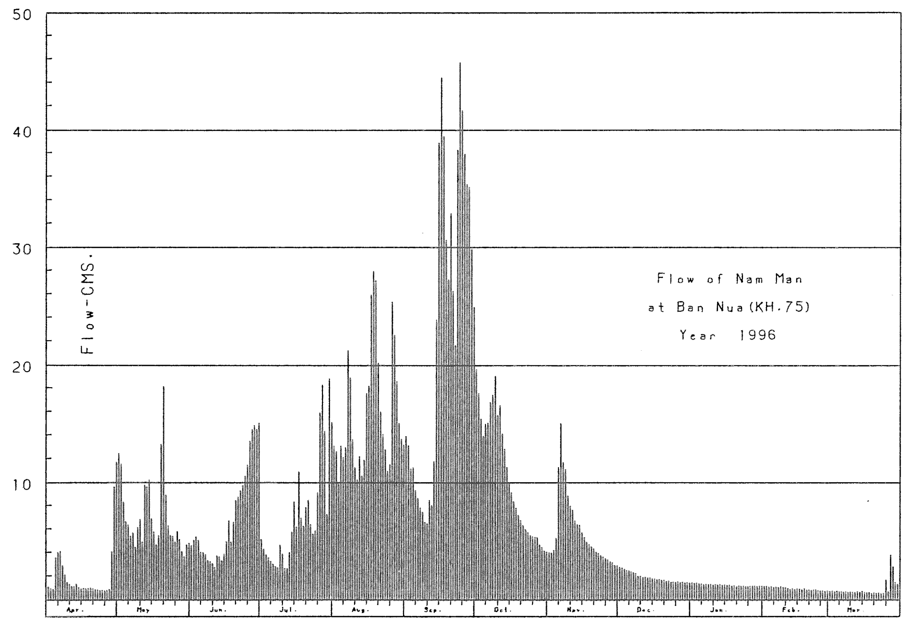
Nam Man at Ban Nua, Loei (Kh.75)

Location	Lat. 17°-16'-38" N., Long. 101°-09'-04" E., on left bank at the bridge of Nam Man, Amphoe Dan Sai, Loei.
Drainage Area	385 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+346.57 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+356.602 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	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 96 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	349.26	351.28	350.13	350.24	351.35	351.44	351.97	350.01	349.77	349.40	349.29	349.10	
2	349.19	351.18	350.23	350.07	351.30	351.36	351.81	350.01	349.75	349.39	349.28	349.10	
3	349.17	350.77	350.28	349.98	350.99	351.13	351.60	350.05	349.74	349.39	349.27	349.09	
4	349.92	350.53	350.23	349.92	351.35	351.15	351.45	350.26	349.71	349.38	349.27	349.09	
5	350.02	350.48	350.02	349.86	351.24	350.91	351.55	351.15	349.71	349.37	349.26	349.08	
6	350.03	350.29	350.02	349.82	351.34	350.82	351.56	351.56	349.69	349.35	349.25	349.07	
7	349.80	350.35	349.98	349.78	352.10	350.70	351.74	351.20	349.68	349.35	349.25	349.07	
8	349.63	350.11	349.88	349.75	351.92	350.65	351.80	351.13	349.66	349.35	349.27	349.07	
9	349.42	350.44	349.86	350.14	351.41	350.52	351.93	350.85	349.62	349.35	349.26	349.06	
10	349.34	350.56	349.83	349.99	351.15	350.51	351.63	350.72	349.61	349.34	349.25	349.06	
11	349.28	350.19	349.76	349.74	351.03	350.79	351.71	350.68	349.60	349.34	349.20	349.05	
12	349.26	350.98	349.96	349.75	351.25	350.73	351.47	350.54	349.59	349.34	349.19	349.06	
13	349.36	350.95	349.94	350.01	351.07	351.20	351.32	350.50	349.58	349.34	349.19	349.07	
14	349.23	351.03	349.88	350.37	351.22	352.31	351.15	350.48	349.57	349.33	349.18	349.06	
15	349.19	350.57	349.99	350.77	351.81	353.36	351.00	350.36	349.55	349.33	349.19	349.09	
16	349.20	350.36	350.20	350.45	351.86	353.69	350.88	350.27	349.53	349.33	349.18	349.04	
17	349.19	350.15	350.54	351.11	352.48	353.40	350.78	350.20	349.52	349.32	349.17	349.04	
18	349.19	350.30	350.20	350.57	352.63	352.81	350.69	350.15	349.51	349.31	349.20	349.03	
19	349.23	351.37	350.52	350.47	352.57	352.58	350.61	350.12	349.50	349.30	349.16	349.01	
20	349.19	351.86	350.79	350.70	352.02	352.96	350.54	350.08	349.49	349.29	349.15	349.02	
21	349.16	350.86	350.83	350.79	351.66	352.50	350.48	350.03	349.47	349.29	349.15	349.02	
22	349.14	350.47	350.91	350.49	351.46	352.14	350.41	350.00	349.45	349.30	349.14	349.01	
23	349.13	350.31	350.97	350.34	351.32	353.32	350.35	349.97	349.43	349.29	349.17	349.00	
24	349.12	350.29	351.07	350.38	351.11	353.76	350.31	349.94	349.43	349.28	349.12	348.99	
25	349.11	350.20	351.17	350.88	351.18	353.53	350.28	349.92	349.43	349.28	349.11	349.51	
26	349.11	350.38	351.40	351.65	352.43	353.30	350.27	349.89	349.43	349.28	349.11	349.08	
27	349.17	350.24	351.51	351.87	352.21	353.13	350.27	349.87	349.42	349.30	349.10	349.97	
28	350.02	350.04	351.54	351.49	351.89	353.11	350.15	349.84	349.42	349.29	349.10	349.78	
29	350.95	349.94	351.51	350.62	351.56	352.76	350.10	349.80	349.41	349.29		349.41	
30	351.20	350.15	351.56	351.91	351.42	352.40	350.05	349.79	349.41	349.29		349.36	
31		350.17		351.57	351.36		350.02		349.40	349.29		349.30	
Mean	349.47	350.54	350.49	350.50	351.60	352.10	350.96	350.31	349.55	349.33	349.20	349.15	
Max	351.20	351.86	351.56	351.91	352.63	353.76	351.97	351.56	349.77	349.40	349.29	349.97	353.76
Min	349.11	349.94	349.76	349.74	350.99	350.51	350.02	349.79	349.40	349.28	349.10	348.99	348.99

Annual Max Momentary Gage Height 354.92 M (MSL), at 22.00 Hours, on Sep 23, 1996
Zero Gage at Bottom Elevation 346.57 M (MSL), River Bed 348.08 M (MSL)
Left Bank Elevation 356.61 M (MSL)
Right Bank Elevation 356.62 M (MSL), Drainage Area 385 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	12.52	3.65	5.20	13.15	13.96	19.63	4.05	2.85	1.50	1.22	0.80	
2	0.98	11.62	3.90	4.35	12.70	13.24	17.63	4.05	2.75	1.48	1.20	0.80	
3	0.94	8.39	5.20	3.90	9.93	11.17	15.50	4.25	2.70	1.48	1.17	0.78	
4	3.60	6.71	5.65	3.60	13.15	11.35	14.05	5.30	2.55	1.45	1.17	0.78	
5	4.10	6.40	4.60	3.30	12.16	9.37	15.00	11.35	2.55	1.42	1.15	0.76	
6	4.15	5.45	5.85	3.10	13.06	8.74	15.10	15.10	2.45	1.37	1.12	0.74	
7	3.00	5.75	4.80	2.90	21.25	7.90	16.90	11.80	2.40	1.37	1.12	0.74	
8	2.15	4.55	4.30	2.75	19.00	7.55	17.50	11.17	2.30	1.37	1.17	0.74	
9	1.55	6.20	3.75	4.70	13.69	6.64	19.13	8.95	2.10	1.37	1.15	0.72	
10	1.35	6.92	3.65	3.95	11.35	6.57	15.80	8.04	2.05	1.35	1.12	0.72	
11	1.20	4.95	3.15	2.70	10.27	8.53	16.60	7.76	2.00	1.35	1.00	0.70	
12	1.15	9.86	6.30	2.75	12.25	8.11	14.23	6.78	1.97	1.35	0.98	0.72	
13	1.40	9.65	6.20	4.05	10.63	11.80	12.88	6.50	1.95	1.35	0.98	0.74	
14	1.07	10.27	4.70	5.85	11.98	23.88	11.35	6.40	1.93	1.32	0.96	0.72	
15	0.98	6.99	6.40	8.39	17.63	38.90	10.00	5.80	1.87	1.32	0.98	0.78	
16	1.00	5.80	7.27	6.25	18.25	44.53	9.16	5.35	1.82	1.32	0.96	0.68	
17	0.98	4.75	8.81	10.99	26.04	39.50	8.46	5.00	1.80	1.30	0.94	0.68	
18	0.98	5.50	7.06	6.99	28.02	30.65	7.83	4.75	1.78	1.27	1.00	0.66	
19	1.07	13.33	7.76	6.35	27.21	27.34	7.27	4.60	1.75	1.25	0.92	0.62	
20	0.98	18.25	8.60	7.90	20.25	32.90	6.78	4.40	1.72	1.22	0.90	0.64	
21	0.92	9.02	6.99	8.53	16.10	26.30	6.40	4.15	1.67	1.22	0.90	0.64	
22	0.88	6.35	6.99	6.45	14.14	21.75	6.05	4.00	1.63	1.25	0.88	0.62	
23	0.86	5.55	6.45	5.70	12.88	38.30	5.75	3.85	1.57	1.22	0.94	0.60	
24	0.84	5.45	6.30	5.90	10.99	45.75	5.55	3.70	1.57	1.20	0.84	0.58	
25	0.82	5.00	6.15	9.16	11.62	41.72	5.40	3.60	1.57	1.20	0.82	1.78	
26	0.82	5.90	7.20	16.00	25.39	38.00	5.35	3.45	1.57	1.20	0.82	0.76	
27	0.94	5.20	6.50	18.38	22.62	35.45	5.35	3.35	1.55	1.25	0.80	3.85	
28	4.10	4.20	5.65	14.41	18.63	35.15	4.75	3.20	1.55	1.22	0.80	2.90	
29	9.65	3.70	5.05	7.34	15.10	29.90	4.50	3.00	1.52	1.22		1.52	
30	11.80	4.75	5.75	18.88	13.78	25.00	4.25	2.95	1.52	1.22		1.40	
31		4.85		15.20	13.24		4.10		1.50	1.22		1.25	
Total	65.41	223.83	174.63	225.92	496.46	699.95	328.25	176.65	60.51	40.63	28.01	30.42	2550.67 CMSDAY
Mean	2.18	7.22	5.82	7.29	16.01	23.33	10.59	5.89	1.95	1.31	1.00	0.98	6.99 CMS
Max	11.80	18.25	8.81	18.88	28.02	45.75	19.63	15.10	2.85	1.50	1.22	3.85	45.75 CMS
Min	0.82	3.70	3.15	2.70	9.93	6.57	4.10	2.95	1.50	1.20	0.80	0.58	0.58 CMS
Runoff	5.651	19.339	15.088	19.519	42.894	60.476	28.361	15.263	5.228	3.510	2.420	2.628	220.378 MCM

Momentary Peak 68.16 CMS, at 354.92 M (MSL), at 22.00 Hours, on Sep 23, 1996

Runoff Yield 18.15 Liters/Second/Square KM, Momentary Peak Yield 177.039 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

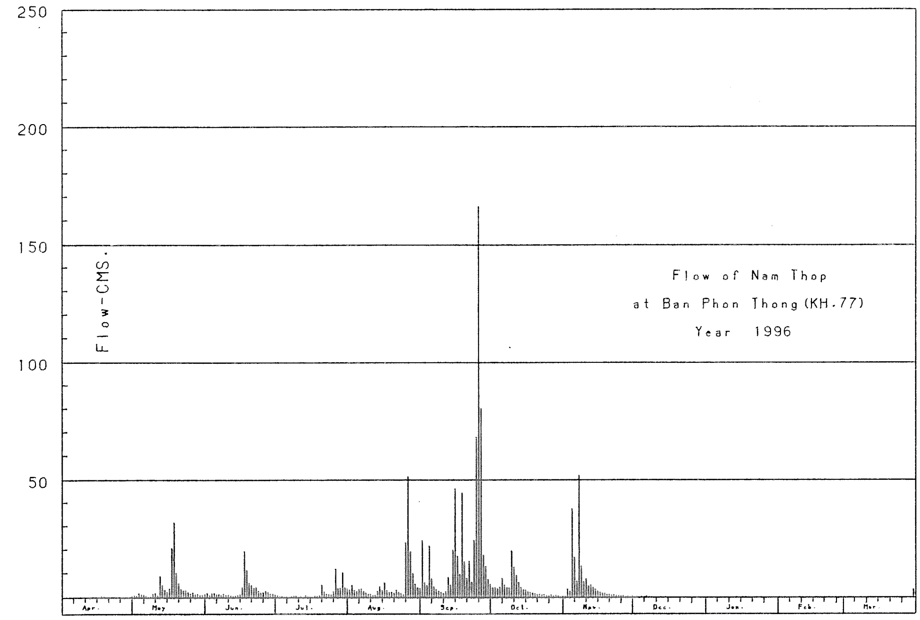
Nam Thop at Ban Phon Thong, Loei (Kh.77)

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	+257.40 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near the measuring line.
Elevation	+265.00 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	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 20 discharge measurements in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.78	258.03	258.19	258.02	258.36	259.48	258.48	257.99	257.94	257.78	257.75	257.71	
2	257.79	257.98	258.07	257.98	258.59	258.66	258.47	258.39	257.94	257.78	257.75	257.71	
3	257.79	258.17	258.16	257.94	258.34	258.57	258.43	258.30	257.92	257.79	257.74	257.71	
4	257.80	258.12	258.22	257.94	258.31	259.41	258.49	259.85	257.94	257.78	257.74	257.71	
5	257.83	258.06	258.12	257.91	258.41	258.80	258.80	259.25	257.96	257.78	257.75	257.71	
6	257.83	257.95	258.08	257.90	258.41	258.53	258.57	258.71	257.97	257.78	257.75	257.71	
7	257.83	257.94	258.07	257.92	258.30	258.38	258.48	260.17	257.93	257.78	257.75	257.71	
8	257.82	257.90	258.13	258.01	258.19	258.32	258.45	259.07	257.91	257.79	257.77	257.71	
9	257.80	258.16	258.08	257.96	258.14	258.24	259.34	258.69	257.91	257.76	257.75	257.70	
10	257.82	258.17	258.04	257.91	258.10	258.20	259.05	258.79	257.90	257.76	257.74	257.70	
11	257.83	258.03	257.99	257.92	258.05	258.28	258.89	258.55	257.89	257.76	257.71	257.71	
12	257.81	258.86	258.00	257.91	258.02	258.83	258.68	258.57	257.90	257.77	257.72	257.71	
13	257.81	258.56	257.99	258.03	258.32	258.57	258.48	258.48	257.89	257.77	257.73	257.71	
14	257.81	258.36	258.01	257.96	258.51	259.35	258.39	258.39	257.89	257.77	257.72	257.70	
15	257.80	258.24	258.11	257.92	258.35	260.05	258.34	258.30	257.88	257.77	257.72	257.70	
16	257.86	258.43	258.50	257.90	258.67	259.26	258.28	258.23	257.87	257.77	257.72	257.70	
17	257.97	259.38	259.33	257.96	258.33	258.91	258.23	258.20	257.87	257.77	257.69	257.70	
18	257.90	259.71	259.00	257.99	258.24	260.02	258.21	258.17	257.86	257.77	257.68	257.70	
19	257.84	258.93	258.65	257.98	258.23	259.16	258.15	258.13	257.86	257.77	257.72	257.70	
20	257.83	258.64	258.58	258.59	258.21	258.79	258.12	258.10	257.86	257.77	257.71	257.70	
21	257.83	258.43	258.43	258.27	258.36	259.18	258.11	258.08	257.85	257.77	257.72	257.70	
22	257.82	258.34	258.50	258.14	258.25	258.69	258.09	258.06	257.82	257.75	257.72	257.70	
23	257.82	258.33	258.30	258.08	258.15	259.49	258.08	258.04	257.81	257.75	257.71	257.70	
24	257.80	258.25	258.23	258.09	258.11	260.49	258.04	258.02	257.81	257.75	257.71	257.70	
25	257.79	258.13	258.22	258.27	259.45	261.85	258.03	258.01	257.80	257.75	257.71	257.69	
26	257.83	258.22	258.32	259.02	260.16	260.70	258.05	257.99	257.80	257.75	257.71	257.71	
27	257.82	258.12	258.25	258.45	259.33	259.28	258.02	257.97	257.80	257.75	257.71	257.89	
28	257.83	258.11	258.13	258.44	258.93	259.07	258.00	257.95	257.80	257.75	257.71	257.84	
29	257.86	258.06	258.16	258.95	258.61	258.77	257.99	257.95	257.80	257.75		257.80	
30	257.92	258.03	258.05	258.49	258.50	258.60	257.95	257.94	257.80	257.75		258.40	
31		258.15		258.41	258.43		257.95		257.78	257.75		258.10	
Mean	257.83	258.32	258.26	258.14	258.46	259.13	258.34	258.41	257.87	257.77	257.73	257.75	
Max	257.97	259.71	259.33	259.02	260.16	261.85	259.34	260.17	257.97	257.79	257.77	258.40	261.85
Min	257.78	257.90	257.99	257.90	258.02	258.20	257.95	257.94	257.78	257.75	257.68	257.69	257.68

Annual Max Momentary Gage Height 262.40 M (MSL), at 4.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 257.40 M (MSL), River Bed 256.76 M (MSL)
Left Bank Elevation 264.28 M (MSL)
Right Bank Elevation 264.38 M (MSL), Drainage Area 142 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	1.15	2.04	1.10	3.38	24.40	4.42	0.95	0.70	0.08	0.05	0.01	
2	0.09	0.90	1.35	0.90	5.59	6.42	4.33	3.62	0.70	0.08	0.05	0.01	
3	0.09	1.92	1.86	0.70	3.22	5.37	3.97	2.90	0.60	0.09	0.04	0.01	
4	0.10	1.62	2.26	0.70	2.98	22.30	4.51	38.00	0.70	0.08	0.04	0.01	
5	0.22	1.30	1.62	0.55	3.79	8.40	8.40	17.50	0.80	0.08	0.05	0.01	
6	0.22	0.75	1.40	0.50	3.79	4.93	5.37	7.05	0.85	0.08	0.05	0.01	
7	0.22	0.70	1.35	0.60	2.90	3.54	4.42	52.50	0.65	0.08	0.05	0.01	
8	0.18	0.50	1.68	1.05	2.04	3.06	4.15	13.40	0.55	0.09	0.07	0.01	
9	0.10	1.86	1.40	0.80	1.74	2.42	20.20	6.78	0.55	0.06	0.05	0.00	
10	0.18	1.92	1.20	0.55	1.50	2.10	13.00	8.25	0.50	0.06	0.04	0.00	
11	0.22	1.15	0.95	0.60	1.25	2.74	9.84	5.15	0.46	0.06	0.01	0.01	
12	0.14	9.36	1.00	0.55	1.10	8.88	6.66	5.37	0.50	0.07	0.02	0.01	
13	0.14	5.26	0.95	1.15	3.06	5.37	4.42	4.42	0.46	0.07	0.03	0.01	
14	0.14	3.38	1.05	0.80	4.71	20.50	3.62	3.62	0.46	0.07	0.02	0.00	
15	0.10	2.42	1.56	0.60	3.30	46.50	3.22	2.90	0.42	0.07	0.02	0.00	
16	0.34	3.97	4.60	0.50	6.54	17.80	2.74	2.34	0.38	0.07	0.02	0.00	
17	0.85	21.40	19.90	0.80	3.14	10.20	2.34	2.10	0.38	0.07	0.00	0.00	
18	0.50	32.40	12.00	0.95	2.42	45.00	2.18	1.92	0.34	0.07	0.00	0.00	
19	0.26	10.60	6.30	0.90	2.34	15.20	1.80	1.68	0.34	0.07	0.02	0.00	
20	0.22	6.18	5.48	5.59	2.18	8.25	1.62	1.50	0.34	0.07	0.01	0.00	
21	0.22	3.97	3.97	2.66	3.38	15.60	1.56	1.40	0.30	0.07	0.02	0.00	
22	0.18	3.22	4.60	1.74	2.50	6.78	1.45	1.30	0.18	0.05	0.02	0.00	
23	0.18	3.14	2.90	1.40	1.80	24.70	1.40	1.20	0.14	0.05	0.01	0.00	
24	0.10	2.50	2.34	1.45	1.56	68.50	1.20	1.10	0.14	0.05	0.01	0.00	
25	0.09	1.68	2.26	2.66	23.50	166.50	1.15	1.05	0.10	0.05	0.01	0.00	
26	0.22	2.26	3.06	12.40	52.00	81.00	1.25	0.95	0.10	0.05	0.01	0.01	
27	0.18	1.62	2.50	4.15	19.90	18.40	1.10	0.85	0.10	0.05	0.01	0.46	
28	0.22	1.56	1.68	4.06	10.60	13.40	1.00	0.75	0.10	0.05	0.01	0.26	
29	0.34	1.30	1.86	11.00	5.82	7.95	0.95	0.75	0.10	0.05		0.10	
30	0.60	1.15	1.25	4.51	4.60	5.70	0.75	0.70	0.10	0.05		3.70	
31		1.80		3.79	3.97		0.75		0.08	0.05		1.50	
Total	6.72	132.94	96.37	69.71	190.60	671.91	123.77	192.00	12.12	2.04	0.74	6.14	1505.06 CMSDAY
Mean	0.22	4.29	3.21	2.25	6.15	22.40	3.99	6.40	0.39	0.07	0.03	0.20	4.12 CMS
Max	0.85	32.40	19.90	12.40	52.00	166.50	20.20	52.50	0.85	0.09	0.07	3.70	166.50 CMS
Min	0.08	0.50	0.95	0.50	1.10	2.10	0.75	0.70	0.08	0.05	0.00	0.00	0.00 CMS
Runoff	0.581	11.486	8.326	6.023	16.468	58.053	10.694	16.589	1.047	0.176	0.064	0.530	130.037 MCM

Momentary Peak 217.00 CMS, at 262.40 M (MSL), at 4.00 Hours, on Sep 25, 1996

Runoff Yield 29.04 Liters/Second/Square KM, Momentary Peak Yield 1528.169 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

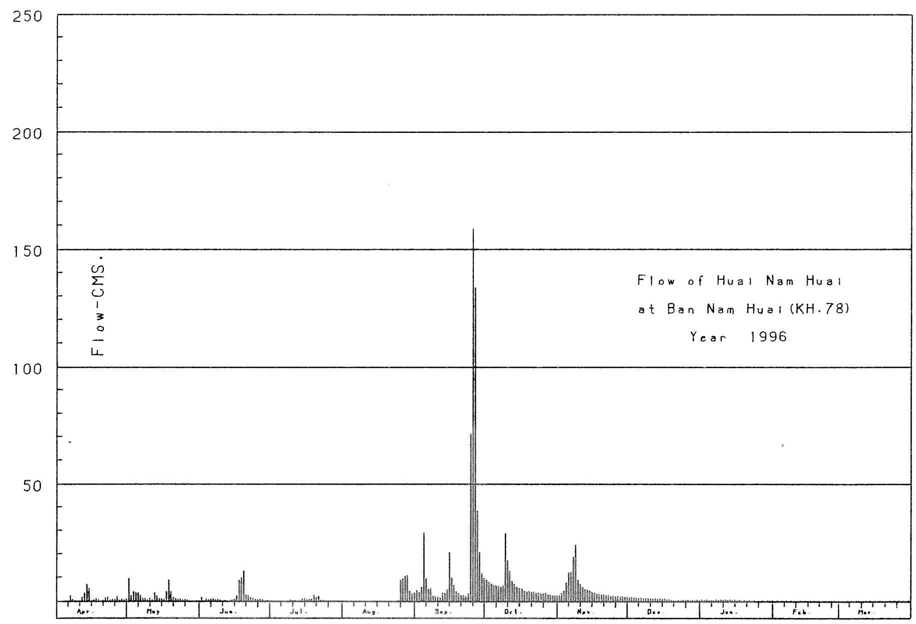
Huai Nam Huai at Ban Nam Huai, Loei (Kh.78)

Location	Lat. 17°-22′-58″ N., Long. 101°-42′-45″ E., on left bank at the bridge of Amphoe Wang Saphung-Amphoe Muang Highway, Amphoe Muang, Loei.
Drainage Area	869 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+246.22 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the footpath of the bridge.
Elevation	+256.495 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	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 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 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	247.00	248.54	247.50	247.16	247.15	247.96	248.49	247.62	247.49	247.30	247.23	247.19	
2	247.00	247.56	247.26	247.12	247.15	247.86	248.37	247.76	247.48	247.30	247.23	247.19	
3	247.00	247.92	247.34	247.11	247.15	248.12	248.31	247.97	247.47	247.30	247.23	247.19	
4	247.01	247.82	247.34	247.11	247.15	250.12	248.21	248.34	247.46	247.30	247.23	247.19	
5	247.02	247.78	247.35	247.10	247.14	248.56	248.22	248.84	247.44	247.30	247.22	247.19	
6	247.60	247.60	247.34	247.10	247.14	248.07	248.17	248.84	247.42	247.30	247.22	247.20	
7	247.29	247.41	247.33	247.10	247.14	248.05	248.17	249.41	247.41	247.31	247.22	247.20	
8	247.21	247.36	247.28	247.23	247.14	247.58	248.21	249.78	247.41	247.31	247.21	247.20	
9	247.10	247.32	247.26	247.26	247.13	247.51	250.12	248.51	247.41	247.31	247.21	247.20	
10	247.14	247.38	247.25	247.23	247.09	247.46	249.27	248.29	247.40	247.31	247.21	247.20	
11	247.44	247.31	247.23	247.19	247.08	247.45	248.87	248.15	247.39	247.31	247.21	247.22	
12	247.80	247.82	247.20	247.17	247.05	247.77	248.44	248.04	247.39	247.31	247.21	247.22	
13	248.29	247.54	247.19	247.16	247.05	247.79	248.27	248.04	247.39	247.30	247.20	247.22	
14	248.07	247.40	247.25	247.38	247.04	248.01	248.15	247.94	247.38	247.29	247.20	247.22	
15	247.26	247.31	247.33	247.38	247.08	249.56	248.08	247.88	247.38	247.28	247.20	247.22	
16	247.21	247.28	247.56	247.34	247.12	248.60	248.07	247.79	247.37	247.27	247.20	247.22	
17	247.40	247.91	248.49	247.29	247.14	248.23	247.92	247.77	247.34	247.27	247.20	247.22	
18	247.29	248.49	248.57	247.31	247.14	247.93	247.91	247.73	247.32	247.26	247.20	247.22	
19	247.20	247.86	248.90	247.67	247.15	247.75	247.90	247.69	247.30	247.25	247.20	247.22	
20	247.25	247.47	247.67	247.43	247.15	247.64	247.87	247.66	247.28	247.25	247.20	247.22	
21	247.44	247.41	247.61	247.56	247.14	247.61	247.87	247.64	247.26	247.24	247.19	247.22	
22	247.45	247.35	247.49	247.29	247.13	247.55	247.81	247.62	247.26	247.24	247.19	247.22	
23	247.29	247.32	247.37	247.21	247.12	247.72	247.79	247.58	247.26	247.24	247.19	247.22	
24	247.26	247.31	247.35	247.18	247.20	252.19	247.77	247.56	247.27	247.23	247.19	247.22	
25	247.33	247.29	247.34	247.17	248.50	255.06	247.77	247.55	247.27	247.23	247.19	247.22	
26	247.53	247.27	247.32	247.17	248.53	254.31	247.77	247.54	247.27	247.23	247.19	247.22	
27	247.27	247.22	247.27	247.17	248.69	250.68	247.70	247.54	247.28	247.23	247.19	247.22	
28	247.33	247.13	247.24	247.17	248.68	249.54	247.62	247.52	247.28	247.23	247.19	247.22	
29	247.31	247.15	247.22	247.17	247.96	248.80	247.62	247.51	247.28	247.23		247.22	
30	247.32	247.16	247.19	247.16	247.71	248.55	247.58	247.49	247.28	247.23		247.23	
31		247.16		247.16	247.84		247.57		247.28	247.23		247.25	
Mean	247.34	247.51	247.47	247.23	247.38	248.80	248.13	247.99	247.35	247.27	247.21	247.21	
Max	248.29	248.54	248.90	247.67	248.69	255.06	250.12	249.78	247.49	247.31	247.23	247.25	255.06
Min	247.00	247.13	247.19	247.10	247.04	247.45	247.57	247.49	247.26	247.23	247.19	247.19	247.00

Annual Max Momentary Gage Height 255.51 M (MSL), at 18.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 246.22 M (MSL), River Bed 246.89 M (MSL)
Left Bank Elevation 256.25 M (MSL)
Right Bank Elevation 256.24 M (MSL), Drainage Area 869 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	9.86	2.14	0.44	0.40	4.77	9.41	2.83	2.09	1.00	0.72	0.56	
2	0.05	2.49	0.84	0.28	0.40	4.20	8.33	3.63	2.03	1.00	0.72	0.56	
3	0.05	4.54	1.23	0.24	0.40	6.08	7.79	4.83	1.97	1.00	0.72	0.56	
4	0.06	3.97	1.23	0.24	0.40	29.30	6.89	8.06	1.91	1.00	0.72	0.56	
5	0.08	3.74	1.29	0.20	0.36	10.04	6.98	12.64	1.80	1.00	0.68	0.56	
6	2.71	2.71	1.23	0.20	0.36	5.63	6.53	12.64	1.69	1.00	0.68	0.60	
7	0.96	1.63	1.17	0.20	0.36	5.45	6.53	19.42	1.63	1.06	0.68	0.60	
8	0.64	1.34	0.92	0.72	0.36	2.60	6.89	24.20	1.63	1.06	0.64	0.60	
9	0.20	1.11	0.84	0.84	0.32	2.20	29.30	9.59	1.63	1.06	0.64	0.60	
10	0.36	1.46	0.80	0.72	0.18	1.91	17.74	7.61	1.57	1.06	0.64	0.60	
11	1.80	1.06	0.72	0.56	0.17	1.86	12.97	6.35	1.51	1.06	0.64	0.68	
12	3.86	3.97	0.60	0.48	0.13	3.69	8.96	5.36	1.51	1.06	0.64	0.68	
13	7.61	2.37	0.56	0.44	0.13	3.80	7.43	5.36	1.51	1.00	0.60	0.68	
14	5.63	1.57	0.80	1.46	0.11	5.09	6.35	4.66	1.46	0.96	0.60	0.68	
15	0.84	1.06	1.17	1.46	0.17	21.22	5.72	4.31	1.46	0.92	0.60	0.68	
16	0.64	0.92	2.49	1.23	0.28	10.40	5.63	3.80	1.40	0.88	0.60	0.68	
17	1.57	4.49	9.41	0.96	0.36	7.07	4.54	3.69	1.23	0.88	0.60	0.68	
18	0.96	9.41	10.13	1.06	0.36	4.60	4.49	3.46	1.11	0.84	0.60	0.68	
19	0.60	4.20	13.30	3.11	0.40	3.57	4.43	3.23	1.00	0.80	0.60	0.68	
20	0.80	1.97	3.11	1.74	0.40	2.94	4.26	3.06	0.92	0.80	0.60	0.68	
21	1.80	1.63	2.77	2.49	0.36	2.77	4.26	2.94	0.84	0.76	0.56	0.68	
22	1.86	1.29	2.09	0.96	0.32	2.43	3.91	2.83	0.84	0.76	0.56	0.68	
23	0.96	1.11	1.40	0.64	0.28	3.40	3.80	2.60	0.84	0.76	0.56	0.68	
24	0.84	1.06	1.29	0.52	0.60	71.75	3.69	2.49	0.88	0.72	0.56	0.68	
25	1.17	0.96	1.23	0.48	9.50	158.95	3.69	2.43	0.88	0.72	0.56	0.68	
26	2.31	0.88	1.11	0.48	9.77	134.14	3.69	2.37	0.88	0.72	0.56	0.68	
27	0.88	0.68	0.88	0.48	11.21	38.66	3.29	2.37	0.92	0.72	0.56	0.68	
28	1.17	0.32	0.76	0.48	11.12	20.98	2.83	2.26	0.92	0.72	0.56	0.68	
29	1.06	0.40	0.68	0.48	4.77	12.20	2.83	2.20	0.92	0.72		0.68	
30	1.11	0.44	0.56	0.44	3.34	9.95	2.60	2.09	0.92	0.72		0.72	
31		0.44		0.44	4.09		2.54		0.92	0.72		0.80	
Total	42.63	73.08	66.75	24.47	61.41	591.65	208.30	173.31	40.82	27.48	17.40	20.24	1347.54 CMSDAY
Mean	1.42	2.36	2.23	0.79	1.98	19.72	6.72	5.78	1.32	0.89	0.62	0.65	3.69 CMS
Max	7.61	9.86	13.30	3.11	11.21	158.95	29.30	24.20	2.09	1.06	0.72	0.80	158.95 CMS
Min	0.05	0.32	0.56	0.20	0.11	1.86	2.54	2.09	0.84	0.72	0.56	0.56	0.05 CMS
Runoff	3.683	6.314	5.767	2.114	5.306	51.119	17.997	14.974	3.527	2.374	1.503	1.749	116.427 MCM

Momentary Peak 173.85 CMS, at 255.51 M (MSL), at 18.00 Hours, on Sep 25, 1996

Runoff Yield 4.25 Liters/Second/Square KM, Momentary Peak Yield 200.058 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

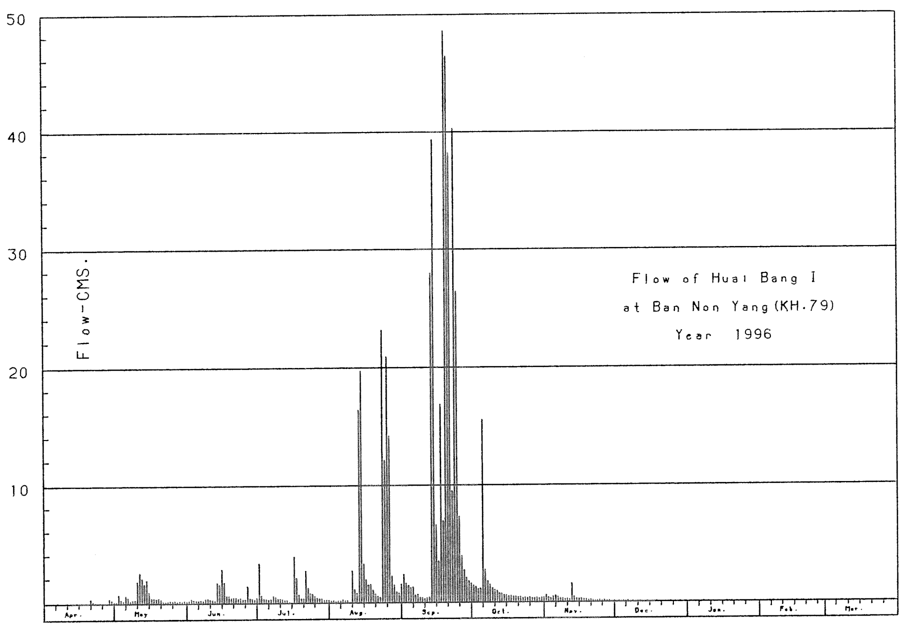
Huai Bang I at Ban Non Yang, Muk Dahan (Kh.79)

Location	Lat.16°28′49″ N., Long. 104°20′08″ E., on right bank at the bridge on highway, Ban Non Yang, Amphoe Nong Sung, Muk Dahan.
Drainage Area	110 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+186.13 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+195.802 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	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 51 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	186.25	186.33	186.35	187.05	186.35	186.92	186.73	186.54	186.30	186.26	186.25	186.24	
2	186.25	186.58	186.44	186.54	186.34	186.77	186.71	186.44	186.30	186.26	186.25	186.23	
3	186.25	186.39	186.38	186.44	186.33	186.74	186.66	186.43	186.30	186.26	186.25	186.23	
4	186.25	186.36	186.37	186.41	186.33	186.69	186.68	186.49	186.30	186.26	186.25	186.22	
5	186.25	186.56	186.37	186.41	186.36	186.71	187.89	186.53	186.30	186.26	186.25	186.22	
6	186.25	186.49	186.37	186.41	186.39	186.56	186.97	186.46	186.30	186.26	186.25	186.22	
7	186.25	186.36	186.37	186.54	186.36	186.57	186.81	186.43	186.29	186.26	186.25	186.22	
8	186.25	186.39	186.43	186.49	186.34	186.49	186.74	186.40	186.29	186.26	186.25	186.22	
9	186.25	186.41	186.46	186.44	186.32	186.46	186.69	186.39	186.29	186.26	186.25	186.22	
10	186.25	186.81	186.40	186.43	186.96	186.43	186.65	186.39	186.29	186.26	186.24	186.22	
11	186.25	186.94	186.38	186.40	186.67	186.45	186.64	186.38	186.29	186.26	186.24	186.22	
12	186.25	186.87	186.37	186.38	186.60	186.50	186.60	186.76	186.29	186.26	186.24	186.22	
13	186.25	186.77	186.79	186.36	187.93	188.40	186.58	186.47	186.29	186.25	186.24	186.22	
14	186.25	186.83	186.75	186.32	188.07	188.78	186.55	186.42	186.28	186.25	186.24	186.22	
15	186.25	186.63	186.99	186.29	187.04	187.37	186.53	186.41	186.28	186.25	186.24	186.22	
16	186.25	186.48	186.79	187.12	186.84	187.07	186.52	186.40	186.28	186.25	186.24	186.22	
17	186.25	186.46	186.55	186.87	186.75	187.95	186.52	186.39	186.28	186.25	186.24	186.22	
18	186.25	186.46	186.53	186.56	186.75	187.40	186.51	186.36	186.28	186.25	186.24	186.21	
19	186.25	186.46	186.48	186.46	186.66	189.06	186.49	186.35	186.27	186.25	186.24	186.21	
20	186.44	186.41	186.48	186.43	186.58	189.00	186.48	186.34	186.27	186.24	186.23	186.21	
21	186.31	186.34	186.48	186.96	186.52	188.74	186.47	186.33	186.27	186.24	186.23	186.21	
22	186.27	186.33	186.45	186.70	186.50	187.57	186.45	186.33	186.27	186.24	186.23	186.21	
23	186.26	186.34	186.46	186.60	188.21	188.81	186.45	186.33	186.27	186.24	186.22	186.21	
24	186.26	186.35	186.42	186.60	187.72	188.34	186.45	186.33	186.27	186.24	186.21	186.21	
25	186.25	186.35	186.40	186.52	188.12	187.42	186.45	186.32	186.26	186.24	186.21	186.21	
26	186.25	186.35	186.73	186.48	187.82	187.12	186.44	186.32	186.26	186.24	186.21	186.21	
27	186.25	186.34	186.47	186.45	186.90	186.97	186.44	186.32	186.26	186.24	186.22	186.21	
28	186.46	186.34	186.42	186.42	186.74	186.86	186.44	186.31	186.26	186.24	186.22	186.21	
29	186.37	186.34	186.41	186.38	186.63	186.81	186.43	186.30	186.26	186.24		186.21	
30	186.32	186.35	186.46	186.37	186.60	186.76	186.43	186.30	186.26	186.24		186.21	
31		186.35		186.36	186.75		186.44		186.26	186.24		186.21	
Mean	186.27	186.48	186.49	186.52	186.85	187.32	186.61	186.40	186.28	186.25	186.24	186.22	
Max	186.46	186.94	186.99	187.12	188.21	189.06	187.89	186.76	186.30	186.26	186.25	186.24	189.06
Min	186.25	186.33	186.35	186.29	186.32	186.43	186.43	186.30	186.26	186.24	186.21	186.21	186.21

Annual Max Momentary Gage Height 191.03 M (MSL), at 6.00 Hours, on Sep 19, 1996
Zero Gage at Bottom Elevation 186.13 M (MSL), River Bed 186.10 M (MSL)
Left Bank Elevation 195.56 M (MSL)
Right Bank Elevation 195.58 M (MSL), Drainage Area 110 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.16	0.20	3.40	0.20	2.44	1.45	0.62	0.10	0.06	0.05	0.04	
2	0.05	0.74	0.38	0.62	0.18	1.65	1.35	0.38	0.10	0.06	0.05	0.03	
3	0.05	0.28	0.26	0.38	0.16	1.50	1.10	0.36	0.10	0.06	0.05	0.03	
4	0.05	0.22	0.24	0.32	0.16	1.25	1.20	0.48	0.10	0.06	0.05	0.02	
5	0.05	0.68	0.24	0.32	0.22	1.35	15.60	0.59	0.10	0.06	0.05	0.02	
6	0.05	0.48	0.24	0.32	0.28	0.68	2.79	0.42	0.10	0.06	0.05	0.02	
7	0.05	0.22	0.24	0.62	0.22	0.71	1.85	0.36	0.09	0.06	0.05	0.02	
8	0.05	0.28	0.36	0.48	0.18	0.48	1.50	0.30	0.09	0.06	0.05	0.02	
9	0.05	0.32	0.42	0.38	0.14	0.42	1.25	0.28	0.09	0.06	0.05	0.02	
10	0.05	1.85	0.30	0.36	2.72	0.36	1.05	0.28	0.09	0.06	0.04	0.02	
11	0.05	2.58	0.26	0.30	1.15	0.40	1.00	0.26	0.09	0.06	0.04	0.02	
12	0.05	2.15	0.24	0.26	0.80	0.50	0.80	1.60	0.09	0.06	0.04	0.02	
13	0.05	1.65	1.75	0.22	16.46	28.00	0.74	0.44	0.09	0.05	0.04	0.02	
14	0.05	1.95	1.55	0.14	19.75	39.40	0.65	0.34	0.08	0.05	0.04	0.02	
15	0.05	0.95	2.93	0.09	3.32	6.61	0.59	0.32	0.08	0.05	0.04	0.02	
16	0.05	0.46	1.75	3.98	2.00	3.56	0.56	0.30	0.08	0.05	0.04	0.02	
17	0.05	0.42	0.65	2.15	1.55	16.90	0.56	0.28	0.08	0.05	0.04	0.02	
18	0.05	0.42	0.59	0.68	1.55	7.00	0.53	0.22	0.08	0.05	0.04	0.01	
19	0.05	0.42	0.46	0.42	1.10	48.60	0.48	0.20	0.07	0.05	0.04	0.01	
20	0.38	0.32	0.46	0.36	0.74	46.50	0.46	0.18	0.07	0.04	0.03	0.01	
21	0.12	0.18	0.46	2.72	0.56	38.20	0.44	0.16	0.07	0.04	0.03	0.01	
22	0.07	0.16	0.40	1.30	0.50	9.55	0.40	0.16	0.07	0.04	0.03	0.01	
23	0.06	0.18	0.42	0.80	23.25	40.30	0.40	0.16	0.07	0.04	0.02	0.01	
24	0.06	0.20	0.34	0.80	12.20	26.50	0.40	0.16	0.07	0.04	0.01	0.01	
25	0.05	0.20	0.30	0.56	21.00	7.30	0.40	0.14	0.06	0.04	0.01	0.01	
26	0.05	0.20	1.45	0.46	14.20	3.98	0.38	0.14	0.06	0.04	0.01	0.01	
27	0.05	0.18	0.44	0.40	2.30	2.79	0.38	0.14	0.06	0.04	0.02	0.01	
28	0.42	0.18	0.34	0.34	1.50	2.10	0.38	0.12	0.06	0.04	0.02	0.01	
29	0.24	0.18	0.32	0.26	0.95	1.85	0.36	0.10	0.06	0.04		0.01	
30	0.14	0.20	0.42	0.24	0.80	1.60	0.36	0.10	0.06	0.04		0.01	
31		0.20		0.22	1.55		0.38		0.06	0.04		0.01	
Total	2.59	18.61	18.41	23.90	131.69	342.48	39.79	9.59	2.47	1.55	1.03	0.52	592.63 CMSDAY
Mean	0.09	0.60	0.61	0.77	4.25	11.42	1.28	0.32	0.08	0.05	0.04	0.02	1.62 CMS
Max	0.42	2.58	2.93	3.98	23.25	48.60	15.60	1.60	0.10	0.06	0.05	0.04	48.60 CMS
Min	0.05	0.16	0.20	0.09	0.14	0.36	0.36	0.10	0.06	0.04	0.01	0.01	0.01 CMS
Runoff	0.224	1.608	1.591	2.065	11.378	29.590	3.438	0.829	0.213	0.134	0.089	0.045	51.203 MCM

Momentary Peak 156.25 CMS, at 191.03 M (MSL), at 6.00 Hours, on Sep 19, 1996
Runoff Yield 14.76 Liters/Second/Square KM, Momentary Peak Yield 1420.455 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

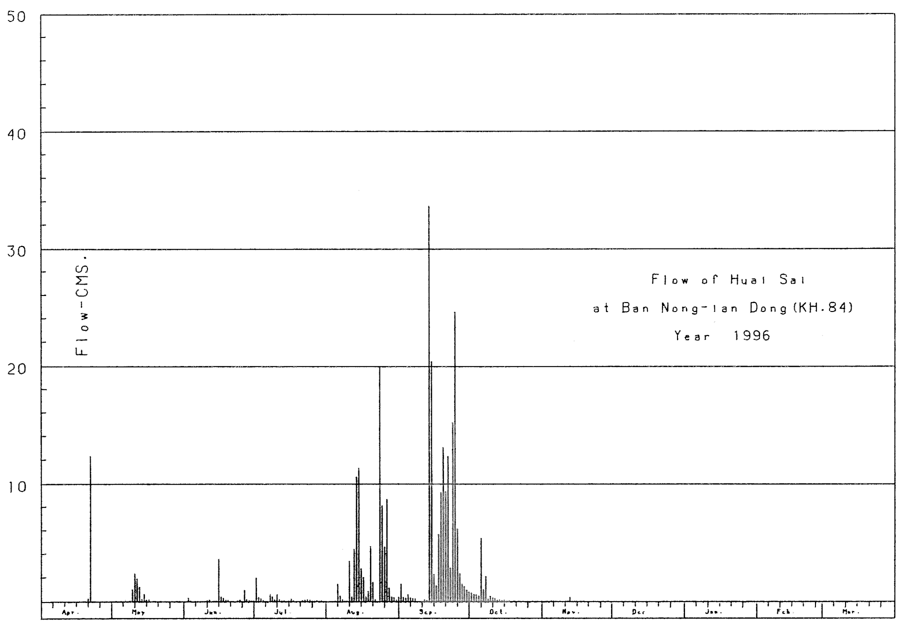
Huai Sai at Ban Nong-ian Dong, Muk Dahan (Kh.84)

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	+184.73 m.(M.S.L.)
Bench Mark	B.M.-Highways Department.
Location	On left bank downstream side at the footpath of the bridge.
Elevation	+190.766 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. Stage-discharge relation defined by 50 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	185.51	185.59	185.69	185.97	185.62	185.93	185.84	185.66	185.61	185.58	185.57	185.56	
2	185.51	185.66	185.76	185.79	185.62	185.78	185.83	185.67	185.61	185.58	185.58	185.55	
3	185.51	185.62	185.70	185.75	185.61	185.77	185.82	185.68	185.61	185.58	185.58	185.55	
4	185.57	185.65	185.64	185.72	185.65	185.82	185.81	185.71	185.61	185.58	185.57	185.55	
5	185.56	185.70	185.63	185.70	185.93	185.78	186.14	185.71	185.61	185.58	185.58	185.54	
6	185.56	185.72	185.63	185.68	185.81	185.75	185.88	185.68	185.61	185.58	185.60	185.54	
7	185.55	185.68	185.63	185.83	185.74	185.76	185.98	185.67	185.60	185.58	185.59	185.54	
8	185.54	185.68	185.63	185.79	185.69	185.67	185.75	185.66	185.60	185.58	185.59	185.54	
9	185.53	185.88	185.65	185.72	185.66	185.56	185.80	185.65	185.60	185.58	185.59	185.54	
10	185.53	186.00	185.72	185.83	186.05	185.49	185.78	185.65	185.60	185.58	185.58	185.54	
11	185.53	185.96	185.72	185.73	185.80	185.74	185.75	185.65	185.60	185.58	185.58	185.54	
12	185.53	185.91	185.70	185.71	186.10	185.71	185.73	185.79	185.60	185.58	185.57	185.55	
13	185.52	185.74	185.67	185.70	186.32	186.78	185.73	185.66	185.60	185.58	185.57	185.55	
14	185.52	185.83	185.68	185.68	186.34	186.55	185.72	185.65	185.60	185.57	185.57	185.55	
15	185.52	185.71	186.06	185.69	186.02	185.99	185.72	185.64	185.60	185.57	185.57	185.57	
16	185.52	185.73	185.80	185.75	185.97	185.92	185.71	185.64	185.60	185.57	185.57	185.58	
17	185.53	185.68	185.76	185.71	185.80	186.15	185.71	185.64	185.60	185.57	185.57	185.58	
18	185.55	185.68	185.73	185.69	185.86	186.28	185.70	185.63	185.59	185.57	185.56	185.56	
19	185.55	185.68	185.72	185.67	186.11	186.39	185.70	185.63	185.59	185.57	185.56	185.56	
20	185.75	185.68	185.69	185.67	185.94	186.28	185.69	185.63	185.59	185.57	185.56	185.55	
21	186.37	185.66	185.67	185.71	185.74	186.37	185.69	185.63	185.59	185.57	185.56	185.55	
22	185.64	185.64	185.66	185.73	185.69	186.02	185.69	185.63	185.59	185.57	185.56	185.55	
23	185.61	185.63	185.70	185.73	186.54	186.44	185.69	185.62	185.59	185.57	185.56	185.58	
24	185.59	185.63	185.72	185.73	186.24	186.63	185.69	185.62	185.59	185.57	185.56	185.59	
25	185.58	185.63	185.70	185.71	186.11	186.17	185.68	185.62	185.59	185.57	185.56	185.59	
26	185.57	185.63	185.88	185.71	186.26	186.00	185.68	185.62	185.59	185.57	185.56	185.59	
27	185.56	185.63	185.73	185.71	185.90	185.93	185.67	185.62	185.59	185.57	185.56	185.59	
28	185.55	185.66	185.72	185.71	185.80	185.91	185.66	185.62	185.59	185.57	185.56	185.58	
29	185.55	185.63	185.70	185.70	185.77	185.88	185.66	185.62	185.59	185.57		185.58	
30	185.60	185.63	185.69	185.67	185.73	185.85	185.66	185.61	185.59	185.57		185.57	
31		185.63		185.65	185.79		185.68		185.58	185.57		185.58	
Mean	185.58	185.70	185.71	185.73	185.91	186.01	185.75	185.65	185.60	185.57	185.57	185.56	
Max	186.37	186.00	186.06	185.97	186.54	186.78	186.14	185.79	185.61	185.58	185.60	185.59	186.78
Min	185.51	185.59	185.63	185.65	185.61	185.49	185.66	185.61	185.58	185.57	185.56	185.54	185.49

Annual Max Momentary Gage Height	187.15 M (MSL), at 19.00 Hours, on Sep 13, 1996
Zero Gage at Bottom Elevation	184.73 M (MSL), River Bed 183.19 M (MSL)
Left Bank Elevation	190.52 M (MSL)
Right Bank Elevation	190.50 M (MSL), Drainage Area 48 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.05	0.11	2.11	0.07	1.59	0.78	0.10	0.07	0.05	0.04	0.04	
2	0.01	0.10	0.35	0.46	0.07	0.42	0.71	0.10	0.07	0.05	0.05	0.03	
3	0.01	0.07	0.12	0.31	0.07	0.39	0.64	0.11	0.07	0.05	0.05	0.03	
4	0.04	0.09	0.08	0.20	0.09	0.64	0.57	0.16	0.07	0.05	0.04	0.03	
5	0.04	0.12	0.08	0.12	1.59	0.42	5.50	0.16	0.07	0.05	0.05	0.02	
6	0.04	0.20	0.08	0.11	0.57	0.31	1.06	0.11	0.07	0.05	0.06	0.02	
7	0.03	0.11	0.08	0.71	0.27	0.35	2.24	0.10	0.06	0.05	0.05	0.02	
8	0.02	0.11	0.08	0.46	0.11	0.10	0.31	0.10	0.06	0.05	0.05	0.02	
9	0.02	1.06	0.09	0.20	0.10	0.04	0.50	0.09	0.06	0.05	0.05	0.02	
10	0.02	2.50	0.20	0.71	3.50	0.00	0.42	0.09	0.06	0.05	0.05	0.02	
11	0.02	1.98	0.20	0.23	0.50	0.27	0.31	0.09	0.06	0.05	0.05	0.02	
12	0.02	1.33	0.12	0.16	4.50	0.16	0.23	0.46	0.06	0.05	0.04	0.03	
13	0.01	0.27	0.10	0.12	10.70	33.70	0.23	0.10	0.06	0.05	0.04	0.03	
14	0.01	0.71	0.11	0.11	11.40	20.50	0.20	0.09	0.06	0.04	0.04	0.03	
15	0.01	0.16	3.70	0.11	2.90	2.37	0.20	0.08	0.06	0.04	0.04	0.04	
16	0.01	0.23	0.50	0.31	2.11	1.46	0.16	0.08	0.06	0.04	0.04	0.05	
17	0.02	0.11	0.35	0.16	0.50	5.75	0.16	0.08	0.06	0.04	0.04	0.05	
18	0.03	0.11	0.23	0.11	0.92	9.40	0.12	0.08	0.05	0.04	0.04	0.04	
19	0.03	0.11	0.20	0.10	4.75	13.15	0.12	0.08	0.05	0.04	0.04	0.04	
20	0.31	0.11	0.11	0.10	1.72	9.40	0.11	0.08	0.05	0.04	0.04	0.03	
21	12.45	0.10	0.10	0.16	0.27	12.45	0.11	0.08	0.05	0.04	0.04	0.03	
22	0.08	0.08	0.10	0.23	0.11	2.90	0.11	0.08	0.05	0.04	0.04	0.03	
23	0.07	0.08	0.12	0.23	20.00	15.30	0.11	0.07	0.05	0.04	0.04	0.05	
24	0.05	0.08	0.20	0.23	8.20	24.65	0.11	0.07	0.05	0.04	0.04	0.05	
25	0.05	0.08	0.12	0.16	4.75	6.25	0.11	0.07	0.05	0.04	0.04	0.05	
26	0.04	0.08	1.06	0.16	8.80	2.50	0.11	0.07	0.05	0.04	0.04	0.05	
27	0.04	0.08	0.23	0.16	1.20	1.59	0.10	0.07	0.05	0.04	0.04	0.05	
28	0.03	0.10	0.20	0.16	0.50	1.33	0.10	0.07	0.05	0.04	0.04	0.05	
29	0.03	0.08	0.12	0.12	0.39	1.06	0.10	0.07	0.05	0.04		0.05	
30	0.06	0.08	0.11	0.10	0.23	0.85	0.10	0.07	0.05	0.04		0.04	
31		0.08		0.09	0.46		0.11		0.05	0.04		0.05	
Total	13.61	10.45	9.25	8.70	91.35	169.30	15.74	3.06	1.78	1.37	1.22	1.11	326.94 CMSDAY
Mean	0.45	0.34	0.31	0.28	2.95	5.64	0.51	0.10	0.06	0.04	0.04	0.04	0.90 CMS
Max	12.45	2.50	3.70	2.11	20.00	33.70	5.50	0.46	0.07	0.05	0.06	0.05	33.70 CMS
Min	0.01	0.05	0.08	0.09	0.07	0.00	0.10	0.07	0.05	0.04	0.04	0.02	0.00 CMS
Runoff	1.176	0.903	0.799	0.752	7.893	14.628	1.360	0.264	0.154	0.118	0.105	0.096	28.248 MCM

Momentary Peak 64.00 CMS, at 187.15 M (MSL), at 19.00 Hours, on Sep 13, 1996

Runoff Yield 18.66 Liters/Second/Square KM, Momentary Peak Yield 1333.333 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

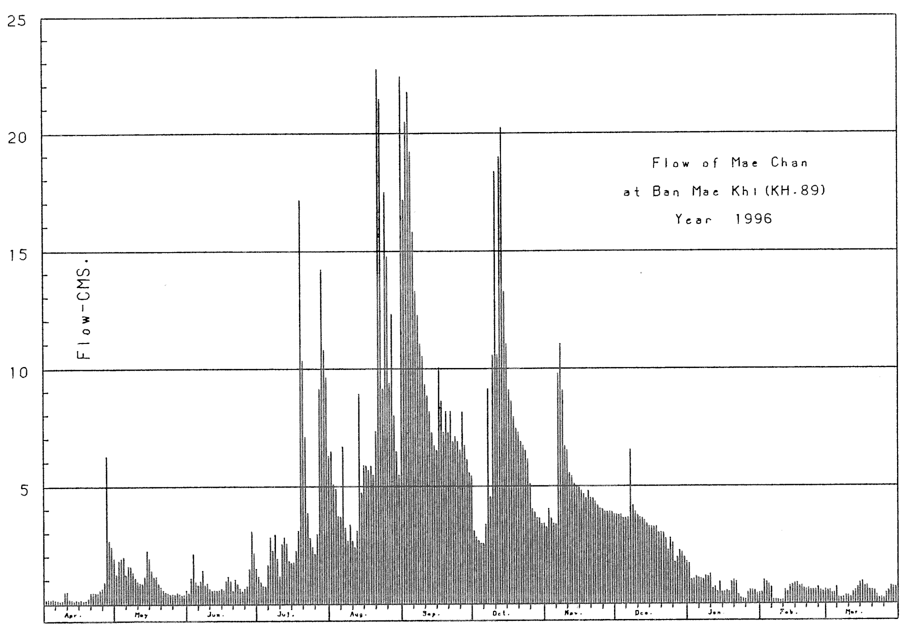
Nam Mae Chan at Ban Mae Khi, Chiang Rai (Kh.89)

Location	Lat. 20°-09′-20″ N., Long. 90°-51′-44″ E., on left bank at the bridge of Mae Chan - Mae Sai Highway, Amphoe Mae Chan, Chiang Rai.
Drainage Area	255 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Temporary.
Location	On left bank at the footpath of the bridge.
Elevation	+5.470 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 63 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.51	0.37	0.50	0.87	1.30	0.68	0.54	0.58	0.39	0.37	0.39	
2	0.27	0.58	0.49	0.46	0.80	1.41	0.66	0.60	0.58	0.48	0.47	0.39	
3	0.27	0.59	0.61	0.43	0.79	1.45	0.65	0.57	0.58	0.48	0.46	0.36	
4	0.27	0.60	0.46	0.43	0.72	1.27	0.64	0.55	0.57	0.50	0.44	0.36	
5	0.25	0.51	0.44	0.56	0.72	1.14	0.64	0.55	0.57	0.49	0.42	0.42	
6	0.25	0.55	0.47	0.66	0.88	1.04	0.70	0.90	0.57	0.48	0.25	0.30	
7	0.24	0.55	0.53	0.62	0.69	1.00	0.99	0.95	0.75	0.48	0.26	0.30	
8	0.24	0.52	0.44	0.67	0.65	0.95	0.77	0.87	0.61	0.50	0.24	0.30	
9	0.38	0.49	0.45	0.59	0.70	0.93	1.05	0.76	0.59	0.50	0.24	0.33	
10	0.38	0.46	0.41	0.50	0.65	0.88	1.34	0.75	0.58	0.51	0.24	0.32	
11	0.28	0.45	0.40	0.64	0.63	0.86	1.05	0.70	0.57	0.41	0.40	0.31	
12	0.25	0.45	0.40	0.66	0.68	0.83	1.36	0.69	0.57	0.42	0.38	0.37	
13	0.24	0.50	0.40	0.64	0.98	0.79	1.31	0.67	0.56	0.38	0.43	0.39	
14	0.25	0.62	0.40	0.58	0.78	0.76	1.04	0.66	0.55	0.46	0.44	0.42	
15	0.25	0.59	0.41	0.57	0.84	0.75	0.95	0.66	0.54	0.37	0.45	0.45	
16	0.25	0.53	0.40	0.57	0.84	0.91	0.87	0.65	0.54	0.37	0.45	0.46	
17	0.24	0.50	0.47	0.62	0.83	0.85	0.85	0.64	0.54	0.39	0.43	0.43	
18	0.24	0.50	0.50	0.68	0.84	0.79	0.82	0.63	0.54	0.37	0.43	0.43	
19	0.30	0.45	0.47	1.30	0.82	0.83	0.80	0.65	0.52	0.46	0.41	0.40	
20	0.37	0.42	0.40	1.04	0.91	0.79	0.79	0.63	0.52	0.47	0.40	0.39	
21	0.37	0.40	0.48	0.90	1.48	0.83	0.77	0.63	0.52	0.46	0.41	0.39	
22	0.37	0.38	0.45	0.73	1.44	0.77	0.76	0.62	0.50	0.34	0.40	0.33	
23	0.36	0.36	0.41	0.66	0.99	0.78	0.75	0.61	0.45	0.29	0.40	0.30	
24	0.40	0.35	0.39	0.63	1.31	0.77	0.73	0.60	0.50	0.28	0.40	0.30	
25	0.41	0.35	0.41	0.61	1.21	0.75	0.67	0.60	0.48	0.25	0.42	0.29	
26	0.46	0.35	0.43	0.67	1.00	0.83	0.60	0.59	0.40	0.37	0.39	0.36	
27	0.86	0.37	0.54	0.99	1.12	0.76	0.59	0.59	0.42	0.40	0.38	0.39	
28	0.65	0.35	0.68	1.19	0.94	0.73	0.57	0.59	0.45	0.39	0.40	0.43	
29	0.63	0.34	0.61	1.06	0.87	0.70	0.57	0.59	0.44	0.39		0.42	
30	0.59	0.34	0.54	1.01	0.82	0.69	0.55	0.58	0.42	0.35		0.42	
31		0.40		0.86	1.47		0.55		0.40	0.36		0.40	
Mean	0.35	0.46	0.46	0.71	0.91	0.90	0.81	0.65	0.53	0.41	0.39	0.37	
Max	0.86	0.62	0.68	1.30	1.48	1.45	1.36	0.95	0.75	0.51	0.47	0.46	1.48
Min	0.24	0.34	0.37	0.43	0.63	0.69	0.55	0.54	0.40	0.25	0.24	0.29	0.24

Annual Max Momentary Gage Height	2.10 M (A.D), at 18.00 Hours, on Oct 12, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed -0.28 M (A.D)
Left Bank Elevation	5.22 M (A.D)
Right Bank Elevation	5.22 M (A.D), Drainage Area 255 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	1.26	0.50	1.18	6.51	17.20	3.13	3.30	3.81	1.72	0.50	0.57	
2	0.21	1.86	1.12	0.95	5.10	20.52	2.85	4.06	3.81	1.06	1.01	0.57	
3	0.21	1.94	2.17	0.77	4.93	21.80	2.71	3.68	3.81	1.06	0.95	0.46	
4	0.21	2.03	0.95	0.77	3.74	19.22	2.58	3.43	3.68	1.18	0.83	0.46	
5	0.17	1.26	0.83	1.69	3.74	15.84	2.58	3.43	3.68	1.12	0.72	0.72	
6	0.17	1.61	1.01	2.85	6.72	13.30	3.40	9.80	3.68	1.06	0.17	0.26	
7	0.15	1.61	1.43	2.30	3.26	12.30	9.17	11.05	6.55	1.06	0.19	0.26	
8	0.15	1.35	0.83	2.99	2.71	11.05	4.59	9.11	4.21	1.18	0.15	0.26	
9	0.53	1.12	0.89	1.94	3.40	10.55	10.60	6.74	3.93	1.18	0.15	0.36	
10	0.53	0.95	0.66	1.18	2.71	9.34	18.40	6.55	3.81	1.26	0.15	0.33	
11	0.22	0.89	0.60	2.58	2.44	8.88	10.60	5.60	3.68	0.66	0.60	0.29	
12	0.17	0.89	0.60	2.85	3.13	8.19	19.00	5.45	3.68	0.72	0.53	0.50	
13	0.15	1.18	0.60	2.58	8.94	7.31	20.29	5.14	3.56	0.53	0.77	0.57	
14	0.17	2.30	0.60	1.86	4.76	6.74	13.30	4.98	3.43	0.95	0.83	0.72	
15	0.17	1.94	0.66	1.77	5.91	6.55	11.05	4.98	3.30	0.50	0.89	0.89	
16	0.17	1.43	0.60	1.77	5.91	10.05	9.11	4.83	3.30	0.50	0.89	0.95	
17	0.15	1.18	1.01	2.30	5.71	8.65	8.65	4.68	3.30	0.57	0.77	0.77	
18	0.15	1.18	1.18	3.13	5.91	7.31	7.96	4.52	3.30	0.50	0.77	0.77	
19	0.26	0.89	1.01	17.20	5.50	8.19	7.50	4.83	3.05	0.95	0.66	0.60	
20	0.50	0.72	0.60	10.36	7.35	7.31	7.31	4.52	3.05	1.01	0.60	0.57	
21	0.50	0.60	1.06	7.12	22.76	8.19	6.93	4.52	3.05	0.95	0.66	0.57	
22	0.50	0.53	0.89	3.91	21.48	6.93	6.74	4.37	2.80	0.40	0.60	0.36	
23	0.46	0.46	0.66	2.85	9.17	7.12	6.55	4.21	2.30	0.24	0.60	0.26	
24	0.60	0.43	0.57	2.44	17.50	6.93	6.17	4.06	2.80	0.22	0.60	0.26	
25	0.66	0.43	0.66	2.17	14.77	6.55	5.14	4.06	2.60	0.17	0.72	0.24	
26	0.95	0.43	0.77	2.99	9.40	8.19	4.06	3.93	1.80	0.50	0.57	0.46	
27	6.31	0.50	1.52	9.17	12.34	6.74	3.93	3.93	2.00	0.60	0.53	0.57	
28	2.71	0.43	3.13	14.23	8.03	6.17	3.68	3.93	2.30	0.57	0.60	0.77	
29	2.44	0.40	2.17	10.84	6.51	5.60	3.68	3.93	2.20	0.57		0.72	
30	1.94	0.40	1.52	9.64	5.50	5.45	3.43	3.81	2.00	0.43		0.72	
31		0.60		6.31	22.44		3.43		1.80	0.46		0.60	
Total	21.72	32.80	30.80	134.69	248.28	298.17	228.52	151.43	100.27	23.88	17.01	16.41	1303.98 CMSDAY
Mean	0.72	1.06	1.03	4.34	8.01	9.94	7.37	5.05	3.23	0.77	0.61	0.53	3.57 CMS
Max	6.31	2.30	3.13	17.20	22.76	21.80	20.29	11.05	6.55	1.72	1.01	0.95	22.76 CMS
Min	0.15	0.40	0.50	0.77	2.44	5.45	2.58	3.30	1.80	0.17	0.15	0.24	0.15 CMS
Runoff	1.877	2.834	2.661	11.637	21.451	25.762	19.744	13.084	8.663	2.063	1.470	1.418	112.664 MCM

Momentary Peak 45.00 CMS, at 2.10 M (A.D), at 18.00 Hours, on Oct 12, 1996
Runoff Yield 14.01 Liters/Second/Square KM, Momentary Peak Yield 176.471 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

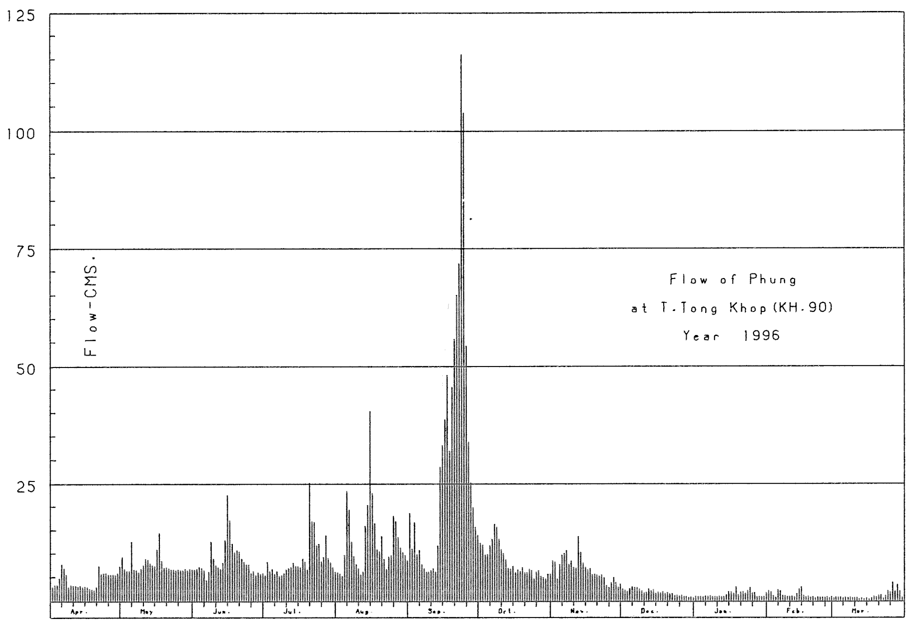
Lam Nam Phung at Ban Tong Khop , Sakhon Nakhon. (kh.90)

Location	Lat. 17°-04′-04″ N., Long. 104°-15′-32″ E., on right bank at the bridge on highway, Ban Tong Khop , Amphoe Khok Si Suphan , Sakhon Nakhon .
Drainage Area	848 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+158.50 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the footpath of the bridge.
Elevation	+167.456 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.34	159.72	159.59	159.51	159.55	160.18	159.87	159.69	159.32	159.17	159.28	159.15	
2	159.36	159.60	159.59	159.67	159.52	159.81	159.85	159.67	159.29	159.17	159.27	159.15	
3	159.37	159.56	159.62	159.56	159.50	160.10	159.75	159.46	159.28	159.16	159.18	159.16	
4	159.46	159.57	159.60	159.60	159.74	159.75	159.75	159.64	159.31	159.17	159.16	159.15	
5	159.65	159.89	159.58	159.53	160.38	159.80	159.85	159.75	159.35	159.17	159.31	159.15	
6	159.60	159.58	159.43	159.56	160.22	159.65	159.91	159.76	159.33	159.18	159.28	159.15	
7	159.52	159.58	159.55	159.50	159.89	159.60	160.08	159.79	159.34	159.18	159.20	159.15	
8	159.33	159.54	159.89	159.50	159.73	159.56	160.04	159.65	159.31	159.17	159.18	159.15	
9	159.37	159.60	159.71	159.54	159.65	159.55	159.92	159.68	159.29	159.16	159.18	159.15	
10	159.35	159.63	159.64	159.59	159.60	159.58	159.81	159.61	159.23	159.17	159.18	159.15	
11	159.35	159.70	159.61	159.60	159.51	159.60	159.76	159.61	159.26	159.17	159.17	159.14	
12	159.35	159.70	159.60	159.62	159.56	159.56	159.70	159.95	159.31	159.17	159.17	159.13	
13	159.35	159.66	159.66	159.66	160.05	159.84	159.61	159.78	159.29	159.16	159.22	159.13	
14	159.34	159.63	159.90	159.63	160.26	160.59	159.59	159.66	159.30	159.21	159.32	159.13	
15	159:34	159.63	160.35	159.62	160.99	160.74	159.62	159.62	159.24	159.26	159.34	159.13	
16	159.34	159.80	160.11	159.61	160.36	160.93	159.55	159.58	159.25	159.25	159.19	159.12	
17	159.31	159.98	159.87	159.71	160.08	161.24	159.58	159.61	159.25	159.24	159.17	159.13	
18	159.31	159.68	159.77	159.67	159.81	160.70	159.57	159.51	159.26	159.35	159.17	159.18	
19	159.28	159.61	159.80	159.59	159.78	161.16	159.61	159.53	159.24	159.20	159.16	159.15	
20	159.34	159.61	159.78	160.45	159.95	161.49	159.55	159.51	159.24	159.27	159.16	159.20	
21	159.63	159.60	159.71	160.10	159.70	161.77	159.54	159.50	159.23	159.26	159.15	159.20	
22	159.53	159.59	159.67	160.10	159.60	161.97	159.60	159.51	159.22	159.24	159.15	159.14	
23	159.53	159.58	159.65	159.85	159.73	163.20	159.57	159.48	159.20	159.28	159.16	159.18	
24	159.53	159.58	159.64	159.86	159.74	162.86	159.46	159.36	159.19	159.34	159.15	159.29	
25	159.52	159.58	159.54	159.68	160.16	161.45	159.56	159.34	159.19	159.25	159.16	159.25	
26	159.51	159.58	159.56	159.72	160.10	160.77	159.57	159.40	159.19	159.24	159.16	159.40	
27	159.52	159.58	159.51	159.96	159.94	160.45	159.50	159.48	159.18	159.17	159.15	159.28	
28	159.50	159.59	159.54	159.71	159.82	160.24	159.47	159.40	159.16	159.16	159.16	159.38	
29	159.54	159.58	159.53	159.67	159.78	160.04	159.46	159.34	159.15	159.17		159.27	
30	159.62	159.59	159.53	159.61	159.74	159.96	159.52	159.38	159.15	159.16		159.16	
31		159.58		159.55	159.69		159.52		159.15	159.25		159.19	
Mean	159.44	159.64	159.68	159.69	159.88	160.54	159.67	159.57	159.25	159.21	159.20	159.18	
Max	159.65	159.98	160.35	160.45	160.99	163.20	160.08	159.95	159.35	159.35	159.34	159.40	163.20
Min	159.28	159.54	159.43	159.50	159.50	159.55	159.46	159.34	159.15	159.16	159.15	159.12	159.12

Annual Max Momentary Gage Height 164.00 M (MSL), at 18.00 Hours, on Sep 23, 1996
Zero Gage at Bottom Elevation 158.50 M (MSL), River Bed 157.98 M (MSL)
Left Bank Elevation 167.36 M (MSL)
Right Bank Elevation 167.35 M (MSL), Drainage Area 848 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.10	9.40	6.85	5.65	6.25	18.76	12.40	8.80	2.80	1.10	2.28	0.90		
2	3.40	7.00	6.85	8.40	5.80	11.20	12.00	8.40	2.39	1.10	2.17	0.90		
3	3.55	6.40	7.40	6.40	5.50	17.00	10.00	4.90	2.28	1.00	1.20	1.00		
4	4.90	6.55	7.00	7.00	9.80	10.00	10.00	7.80	2.65	1.10	1.00	0.90		
5	8.00	12.80	6.70	5.95	23.50	11.00	12.00	10.00	3.25	1.10	2.65	0.90		
6	7.00	6.70	4.45	6.40	19.66	8.00	13.20	10.20	2.95	1.20	2.28	0.90		
7	5.80	6.70	6.25	5.50	12.80	7.00	16.60	10.80	3.10	1.20	1.40	0.90		
8	2.95	6.10	12.80	5.50	9.60	6.40	15.80	8.00	2.65	1.10	1.20	0.90		
9	3.55	7.00	9.20	6.10	8.00	6.25	13.40	8.60	2.39	1.00	1.20	0.90		
10	3.25	7.60	7.80	6.85	7.00	6.70	11.20	7.20	1.73	1.10	1.20	0.90		
11	3.25	9.00	7.20	7.00	5.65	7.00	10.20	7.20	2.06	1.10	1.10	0.80		
12	3.25	9.00	7.00	7.40	6.40	6.40	9.00	14.00	2.65	1.10	1.10	0.70		
13	3.25	8.20	8.20	8.20	16.00	11.80	7.20	10.60	2.39	1.00	1.62	0.70		
14	3.10	7.60	13.00	7.60	20.58	28.75	6.85	8.20	2.50	1.51	2.80	0.70		
15	3.10	7.60	22.75	7.40	40.70	33.20	7.40	7.40	1.84	2.06	3.10	0.70		
16	3.10	11.00	17.22	7.20	23.00	38.90	6.25	6.70	1.95	1.95	1.30	0.60		
17	2.65	14.60	12.40	9.20	16.60	48.20	6.70	7.20	1.95	1.84	1.10	0.70		
18	2.65	8.60	10.40	8.40	11.20	32.00	6.55	5.65	2.06	3.25	1.10	1.20		
19	2.28	7.20	11.00	6.85	10.60	45.80	7.20	5.95	1.84	1.40	1.00	0.90		
20	3.10	7.20	10.60	25.25	14.00	55.88	6.25	5.65	1.84	2.17	1.00	1.40		
21	7.60	7.00	9.20	17.00	9.00	65.18	6.10	5.50	1.73	2.06	0.90	1.40		
22	5.95	6.85	8.40	17.00	7.00	71.98	7.00	5.65	1.62	1.84	0.90	0.80		
23	5.95	6.70	8.00	12.00	9.60	116.40	6.55	5.20	1.40	2.28	1.00	1.20		
24	5.95	6.70	7.80	12.20	9.80	103.82	4.90	3.40	1.30	3.10	0.90	2.39		
25	5.80	6.70	6.10	8.60	18.32	54.60	6.40	3.10	1.30	1.95	1.00	1.95		
26	5.65	6.70	6.40	9.40	17.00	34.10	6.55	4.00	1.30	1.84	1.00	4.00		
27	5.80	6.70	5.65	14.20	13.80	25.25	5.50	5.20	1.20	1.10	0.90	2.28		
28	5.50	6.85	6.10	9.20	11.40	20.12	5.05	4.00	1.00	1.00	1.00	3.70		
29	6.10	6.70	5.95	8.40	10.60	15.80	4.90	3.10	0.90	1.10		2.17		
30	7.40	6.85	5.95	7.20	9.80	14.20	5.80	3.70	0.90	1.00		1.00		
31		6.70		6.25	8.80		5.80		0.90	1.95		1.30		
Total	136.93	240.70	264.62	279.70	397.76	931.69	264.75	206.10	60.82	47.60	39.40	39.69	2909.76	CMSDAY
Mean	4.56	7.76	8.82	9.02	12.83	31.06	8.54	6.87	1.96	1.54	1.41	1.28	7.97	CMS
Max	8.00	14.60	22.75	25.25	40.70	116.40	16.60	14.00	3.25	3.25	3.10	4.00	116.40	CMS
Min	2.28	6.10	4.45	5.50	5.50	6.25	4.90	3.10	0.90	1.00	0.90	0.60	0.60	CMS
Runoff	11.831	20.796	22.863	24.166	34.366	80.498	22.874	17.807	5.255	4.113	3.404	3.429	251.403	MCM

Momentary Peak 150.00 CMS, at 164.00 M (MSL), at 18.00 Hours, on Sep 23, 1996

Runoff Yield 9.40 Liters/Second/Square KM, Momentary Peak Yield 176.887 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

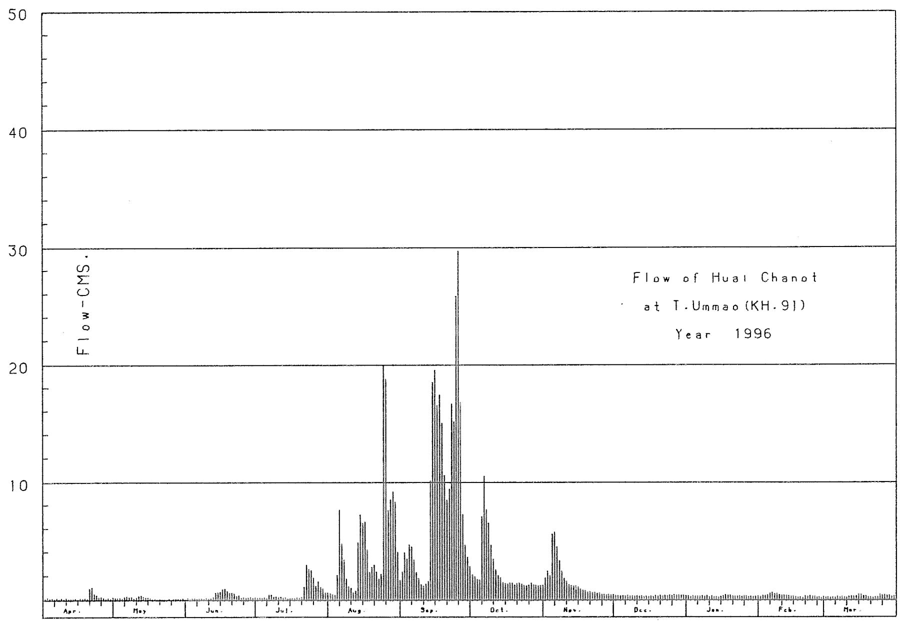
Huai Chanol at Ban Huai Chanol , Nakhon Phanom . (kh.91)

Location	Lat. 16°-47'-46" N., Long. 104°-39'-43" E., on left bank at the bridge on highway, Ban Huai Chanol , Amphoe That Phanom , Nakhon Phanom .
Drainage Area	167 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+149.160 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the footpath of the bridge.
Elevation	+159.387 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.99	150.03	149.99	150.02	150.22	150.76	150.71	150.64	150.13	150.10	150.09	150.06	
2	150.01	149.99	149.96	150.02	150.16	151.01	150.66	150.76	150.11	150.09	150.11	150.05	
3	149.99	150.03	149.96	150.02	150.15	150.94	150.61	150.69	150.11	150.10	150.12	150.05	
4	149.99	150.00	150.01	150.02	150.69	151.15	150.59	151.30	150.11	150.10	150.13	150.05	
5	149.98	150.07	149.97	150.02	151.66	151.12	151.55	151.34	150.11	150.09	150.23	150.05	
6	149.99	150.07	149.99	150.16	151.17	150.92	152.09	151.11	150.12	150.10	150.24	150.07	
7	149.99	150.06	149.96	150.14	150.92	150.75	151.66	150.92	150.11	150.11	150.21	150.07	
8	149.99	150.04	149.96	150.07	150.62	150.62	151.46	150.76	150.10	150.10	150.20	150.07	
9	149.98	150.00	150.00	150.06	150.43	150.50	151.15	150.63	150.10	150.11	150.17	150.07	
10	149.99	150.02	150.00	150.06	150.40	150.44	150.93	150.56	150.10	150.08	150.15	150.05	
11	149.98	150.11	149.96	150.06	150.23	150.50	150.79	150.50	150.10	150.09	150.12	150.07	
12	149.98	150.11	150.06	150.03	150.32	150.57	150.69	150.46	150.10	150.08	150.13	150.11	
13	149.98	150.05	150.23	150.03	151.18	152.03	150.63	150.46	150.08	150.06	150.10	150.08	
14	149.97	150.04	150.26	150.01	151.58	153.06	150.54	150.45	150.09	150.06	150.09	150.11	
15	149.96	150.01	150.29	150.01	151.46	153.18	150.51	150.43	150.09	150.07	150.09	150.16	
16	149.97	149.99	150.35	149.97	151.49	152.84	150.51	150.36	150.09	150.12	150.07	150.16	
17	149.99	149.96	150.38	150.01	151.07	152.95	150.52	150.34	150.09	150.15	150.06	150.12	
18	149.97	149.95	150.29	150.02	150.75	152.66	150.52	150.32	150.11	150.14	150.05	150.10	
19	149.98	149.94	150.25	150.02	150.82	152.09	150.49	150.28	150.10	150.13	150.04	150.07	
20	150.38	149.92	150.22	150.04	150.86	151.79	150.51	150.27	150.12	150.11	150.10	150.05	
21	150.40	149.95	150.20	150.42	150.75	151.93	150.52	150.26	150.11	150.08	150.10	150.04	
22	150.20	149.93	150.10	150.86	150.62	152.86	150.51	150.24	150.12	150.10	150.11	150.05	
23	150.12	149.92	150.11	150.79	150.71	152.68	150.46	150.23	150.12	150.11	150.10	150.08	
24	150.05	149.94	150.03	150.78	153.22	153.80	150.46	150.22	150.13	150.09	150.08	150.16	
25	150.05	149.88	150.03	150.63	153.09	154.18	150.47	150.18	150.13	150.12	150.06	150.14	
26	150.01	149.92	150.03	150.44	151.64	152.87	150.53	150.16	150.15	150.09	150.05	150.14	
27	149.98	149.99	150.04	150.56	151.80	151.59	150.49	150.16	150.14	150.08	150.04	150.13	
28	149.99	149.93	150.03	150.43	151.90	151.14	150.46	150.16	150.14	150.08	150.07	150.11	
29	149.98	149.97	150.02	150.36	151.76	150.96	150.46	150.16	150.14	150.09		150.09	
30	150.04	149.97	150.01	150.25	151.03	150.83	150.46	150.16	150.12	150.07		150.09	
31		149.94		150.23	150.58		150.46		150.12	150.09		150.62	
Mean	150.03	149.99	150.09	150.21	151.07	151.76	150.72	150.48	150.11	150.10	150.11	150.11	
Max	150.40	150.11	150.38	150.86	153.22	154.18	152.09	151.34	150.15	150.15	150.24	150.62	154.18
Min	149.96	149.88	149.96	149.97	150.15	150.44	150.46	150.16	150.08	150.06	150.04	150.04	149.88

Annual Max Momentary Gage Height 154.36 M (MSL), at 6.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 149.16 M (MSL), River Bed 149.10 M (MSL)
Left Bank Elevation 159.16 M (MSL)
Right Bank Elevation 159.17 M (MSL), Drainage Area 167 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.19	0.26	0.19	0.24	0.64	2.50	2.25	1.96	0.46	0.40	0.38	0.32	
2	0.22	0.19	0.16	0.24	0.52	4.05	2.04	2.50	0.42	0.38	0.42	0.30	
3	0.19	0.26	0.16	0.24	0.50	3.58	1.84	2.16	0.42	0.40	0.44	0.30	
4	0.19	0.20	0.22	0.24	2.16	4.75	1.76	5.60	0.42	0.40	0.46	0.30	
5	0.18	0.34	0.17	0.24	7.76	4.60	7.10	5.84	0.42	0.38	0.66	0.30	
6	0.19	0.34	0.19	0.52	4.85	3.44	10.63	4.55	0.44	0.40	0.68	0.34	
7	0.19	0.32	0.16	0.48	3.44	2.45	7.76	3.44	0.42	0.42	0.62	0.34	
8	0.19	0.28	0.16	0.34	1.88	1.88	6.56	2.50	0.40	0.40	0.60	0.34	
9	0.18	0.20	0.20	0.32	1.19	1.40	4.75	1.92	0.40	0.42	0.54	0.34	
10	0.19	0.24	0.20	0.32	1.10	1.22	3.51	1.64	0.40	0.36	0.50	0.30	
11	0.18	0.42	0.16	0.32	0.66	1.40	2.65	1.40	0.40	0.38	0.44	0.34	
12	0.18	0.42	0.32	0.26	0.86	1.68	2.16	1.28	0.40	0.36	0.46	0.42	
13	0.18	0.30	0.66	0.26	4.90	10.21	1.92	1.28	0.36	0.32	0.40	0.36	
14	0.17	0.28	0.72	0.22	7.28	18.54	1.56	1.25	0.38	0.32	0.38	0.42	
15	0.16	0.22	0.78	0.22	6.56	19.62	1.44	1.19	0.38	0.34	0.38	0.52	
16	0.17	0.19	0.95	0.17	6.74	16.56	1.44	0.98	0.38	0.44	0.34	0.52	
17	0.19	0.16	1.04	0.22	4.35	17.55	1.48	0.92	0.38	0.50	0.32	0.44	
18	0.17	0.15	0.78	0.24	2.45	15.08	1.48	0.86	0.42	0.48	0.30	0.40	
19	0.18	0.14	0.70	0.24	2.82	10.63	1.37	0.76	0.40	0.46	0.28	0.34	
20	1.04	0.12	0.64	0.28	3.06	8.54	1.44	0.74	0.44	0.42	0.40	0.30	
21	1.10	0.15	0.60	1.16	2.45	9.51	1.48	0.72	0.42	0.36	0.40	0.28	
22	0.60	0.13	0.40	3.06	1.88	16.74	1.44	0.68	0.44	0.40	0.42	0.30	
23	0.44	0.12	0.42	2.65	2.25	15.24	1.28	0.66	0.44	0.42	0.40	0.36	
24	0.30	0.14	0.26	2.60	20.00	25.87	1.28	0.64	0.46	0.38	0.36	0.52	
25	0.30	0.09	0.26	1.92	18.81	29.78	1.31	0.56	0.46	0.44	0.32	0.48	
26	0.22	0.12	0.26	1.22	7.64	16.83	1.52	0.52	0.50	0.38	0.30	0.48	
27	0.18	0.19	0.28	1.64	8.60	7.34	1.37	0.52	0.48	0.36	0.28	0.46	
28	0.19	0.13	0.26	1.19	9.30	4.70	1.28	0.52	0.48	0.36	0.34	0.42	
29	0.18	0.17	0.24	0.98	8.36	3.72	1.28	0.52	0.48	0.38		0.38	
30	0.28	0.17	0.22	0.70	4.15	2.88	1.28	0.52	0.44	0.34		0.38	
31		0.14		0.66	1.72		1.28		0.44	0.38		1.88	
Total	8.32	6.58	11.76	23.39	148.88	282.29	79.94	48.63	13.18	12.18	11.82	13.18	660.15 CMSDAY
Mean	0.28	0.21	0.39	0.75	4.80	9.41	2.58	1.62	0.43	0.39	0.42	0.43	1.81 CMS
Max	1.10	0.42	1.04	3.06	20.00	29.78	10.63	5.84	0.50	0.50	0.68	1.88	29.78 CMS
Min	0.16	0.09	0.16	0.17	0.50	1.22	1.28	0.52	0.36	0.32	0.28	0.28	0.09 CMS
Runoff	0.719	0.569	1.016	2.021	12.863	24.390	6.907	4.202	1.139	1.052	1.021	1.139	57.037 MCM

Momentary Peak 31.76 CMS, at 154.36 M (MSL), at 6.00 Hours, on Sep 25, 1996

Runoff Yield 10.83 Liters/Second/Square KM, Momentary Peak Yield 190.180 Liters/Second/Square KM

WATER YEAR 1996

KHONG RIVER BASIN

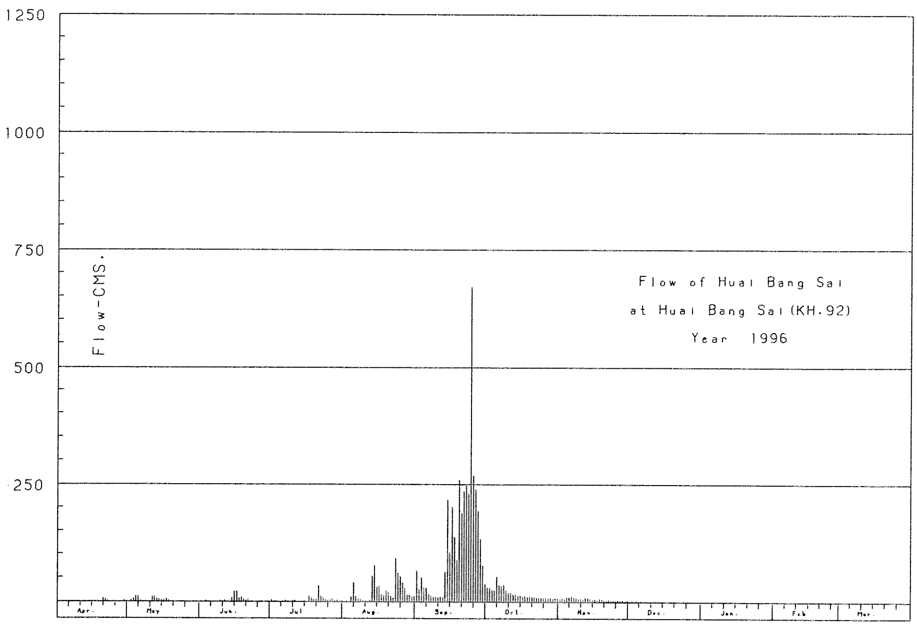
Huai Bang Sai at Ban Kan Luang Dong , Muk Dahan . (kh.92)

Location	Lat. 16°-44'-06" N., Long. 104°-31'-23" E., on left bank at the bridge on highway, Ban Kan Luang Dong , Amphoe Dong Luang , Muk Dahan .
Drainage Area	1,118 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+148.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the footpath of the bridge.
Elevation	+159.049 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.33	149.46	149.41	149.64	149.51	151.31	150.59	149.79	149.56	149.44	149.35	149.31	
2	149.35	149.57	149.50	149.61	149.50	150.49	150.54	149.81	149.56	149.44	149.35	149.31	
3	149.37	149.78	149.55	149.50	149.50	151.06	150.48	149.80	149.56	149.44	149.35	149.31	
4	149.35	149.99	149.52	149.44	149.91	150.59	150.42	149.90	149.55	149.44	149.34	149.30	
5	149.33	150.04	149.46	149.44	150.85	150.61	151.10	149.97	149.55	149.43	149.36	149.30	
6	149.32	149.64	149.40	149.42	149.99	150.23	150.75	150.05	149.54	149.43	149.35	149.30	
7	149.32	149.53	149.40	149.53	149.80	150.06	150.67	149.92	149.53	149.43	149.37	149.30	
8	149.32	149.45	149.40	149.59	149.68	150.00	150.74	149.82	149.52	149.43	149.36	149.30	
9	149.33	149.45	149.51	149.62	149.63	149.97	150.43	149.78	149.51	149.43	149.36	149.30	
10	149.33	149.51	149.50	149.58	149.60	149.92	150.33	149.75	149.50	149.43	149.35	149.30	
11	149.34	150.02	149.59	149.55	149.58	149.94	150.27	149.74	149.50	149.42	149.35	149.30	
12	149.33	149.95	149.48	149.46	149.59	149.95	150.21	149.85	149.50	149.42	149.35	149.31	
13	149.33	149.78	149.63	149.42	151.10	151.26	150.18	149.91	149.49	149.42	149.34	149.31	
14	149.33	149.64	149.87	149.54	151.49	153.14	150.12	149.76	149.49	149.41	149.34	149.32	
15	149.33	149.63	150.36	149.46	150.64	151.89	150.07	149.72	149.48	149.41	149.34	149.34	
16	149.33	149.55	150.41	149.41	150.67	153.00	150.05	149.70	149.48	149.41	149.34	149.33	
17	149.33	149.76	149.80	149.98	150.20	152.32	150.02	149.68	149.48	149.40	149.34	149.33	
18	149.33	149.58	149.96	149.89	150.05	151.67	150.01	149.76	149.48	149.40	149.33	149.32	
19	149.33	149.53	149.69	149.64	150.45	153.48	150.01	149.76	149.47	149.39	149.33	149.32	
20	149.83	149.48	149.65	149.65	150.28	152.89	149.99	149.65	149.47	149.39	149.33	149.31	
21	149.68	149.48	149.68	150.72	150.00	153.28	149.96	149.65	149.47	149.38	149.33	149.30	
22	149.50	149.42	149.55	150.08	149.89	153.38	149.92	149.64	149.47	149.36	149.32	149.30	
23	149.44	149.40	149.50	149.81	151.73	153.25	149.90	149.63	149.46	149.38	149.32	149.32	
24	149.38	149.40	149.48	149.72	151.23	156.18	149.90	149.61	149.46	149.37	149.32	149.33	
25	149.35	149.40	149.48	149.64	151.11	153.57	149.89	149.60	149.46	149.37	149.32	149.33	
26	149.35	149.40	149.49	149.68	150.84	153.32	149.88	149.60	149.45	149.36	149.32	149.34	
27	149.35	149.40	149.50	149.72	150.54	152.91	149.86	149.60	149.45	149.36	149.32	149.34	
28	149.37	149.40	149.50	149.62	150.18	152.26	149.84	149.59	149.44	149.36	149.31	149.34	
29	149.64	149.40	149.47	149.58	150.09	151.47	149.83	149.58	149.44	149.35		149.34	
30	149.51	149.40	149.45	149.58	150.02	150.78	149.80	149.57	149.44	149.35		149.33	
31		149.45		149.53	149.99		149.79		149.44	149.35		149.35	
Mean	149.39	149.58	149.61	149.65	150.25	151.81	150.18	149.74	149.49	149.40	149.34	149.32	
Max	149.83	150.04	150.41	150.72	151.73	156.18	151.10	150.05	149.56	149.44	149.37	149.35	156.18
Min	149.32	149.40	149.40	149.41	149.50	149.92	149.79	149.57	149.44	149.35	149.31	149.30	149.30

Annual Max Momentary Gage Height 156.45 M (MSL), at 12.00 Hours, on Sep 24, 1996
Zero Gage at Bottom Elevation 148.00 M (MSL), River Bed 145.89 M (MSL)
Left Bank Elevation 159.09 M (MSL)
Right Bank Elevation 159.10 M (MSL), Drainage Area 1118 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	1.90	1.15	4.80	2.65	66.60	30.60	7.80	3.40	1.60	0.75	0.55	
2	0.75	3.55	2.50	4.20	2.50	26.65	28.60	8.20	3.40	1.60	0.75	0.55	
3	0.85	7.60	3.25	2.50	2.50	53.00	26.30	8.00	3.40	1.60	0.75	0.55	
4	0.75	11.80	2.80	1.60	10.20	30.60	24.20	10.00	3.25	1.60	0.70	0.50	
5	0.65	12.80	1.90	1.60	42.50	31.40	55.00	11.40	3.25	1.45	0.80	0.50	
6	0.60	4.80	1.00	1.30	11.80	17.90	37.50	13.00	3.10	1.45	0.75	0.50	
7	0.60	2.95	1.00	2.95	8.00	13.20	33.80	10.40	2.95	1.45	0.85	0.50	
8	0.60	1.75	1.00	3.85	5.60	12.00	37.00	8.40	2.80	1.45	0.80	0.50	
9	0.65	1.75	2.65	4.40	4.60	11.40	24.55	7.60	2.65	1.45	0.80	0.50	
10	0.65	2.65	2.50	3.70	4.00	10.40	21.05	7.00	2.50	1.45	0.75	0.50	
11	0.70	12.40	3.85	3.25	3.70	10.80	19.10	6.80	2.50	1.30	0.75	0.50	
12	0.65	11.00	2.20	1.90	3.85	11.00	17.30	9.00	2.50	1.30	0.75	0.55	
13	0.65	7.60	4.60	1.30	55.00	63.60	16.40	10.20	2.35	1.30	0.70	0.55	
14	0.65	4.80	9.40	3.10	77.40	218.80	14.60	7.20	2.35	1.15	0.70	0.60	
15	0.65	4.60	22.10	1.90	32.60	105.30	13.40	6.40	2.20	1.15	0.70	0.70	
16	0.65	3.25	23.85	1.15	33.80	202.00	13.00	6.00	2.20	1.15	0.70	0.65	
17	0.65	7.20	8.00	11.60	17.00	139.60	12.40	5.60	2.20	1.00	0.70	0.65	
18	0.65	3.70	11.20	9.80	13.00	89.90	12.20	7.20	2.20	1.00	0.65	0.60	
19	0.65	2.95	5.80	4.80	25.25	259.60	12.20	7.20	2.05	0.95	0.65	0.60	
20	8.60	2.20	5.00	5.00	19.40	191.00	11.80	5.00	2.05	0.95	0.65	0.55	
21	5.60	2.20	5.60	36.00	12.00	235.60	11.20	5.00	2.05	0.90	0.65	0.50	
22	2.50	1.30	3.25	13.60	9.80	247.60	10.40	4.80	2.05	0.80	0.60	0.50	
23	1.60	1.00	2.50	8.20	94.10	232.00	10.00	4.60	1.90	0.90	0.60	0.60	
24	0.90	1.00	2.20	6.40	61.80	671.60	10.00	4.20	1.90	0.85	0.60	0.65	
25	0.75	1.00	2.20	4.80	55.50	270.40	9.80	4.00	1.90	0.85	0.60	0.65	
26	0.75	1.00	2.35	5.60	42.00	240.40	9.60	4.00	1.75	0.80	0.60	0.70	
27	0.75	1.00	2.50	6.40	28.60	193.00	9.20	4.00	1.75	0.80	0.60	0.70	
28	0.85	1.00	2.50	4.40	16.40	134.80	8.80	3.85	1.60	0.80	0.55	0.70	
29	4.80	1.00	2.05	3.70	13.80	76.20	8.60	3.70	1.60	0.75		0.70	
30	2.65	1.00	1.75	3.70	12.40	39.00	8.00	3.55	1.60	0.75		0.65	
31		1.75		2.95	11.80		7.80		1.60	0.75		0.75	
Total	42.40	124.50	142.65	170.45	733.55	3905.35	564.40	204.10	73.00	35.30	19.45	18.20	6033.35 CMSDAY
Mean	1.41	4.02	4.76	5.50	23.66	130.18	18.21	6.80	2.35	1.14	0.69	0.59	16.53 CMS
Max	8.60	12.80	23.85	36.00	94.10	671.60	55.00	13.00	3.40	1.60	0.85	0.75	671.60 CMS
Min	0.60	1.00	1.00	1.15	2.50	10.40	7.80	3.55	1.60	0.75	0.55	0.50	0.50 CMS
Runoff	3.663	10.757	12.325	14.727	63.379	337.422	48.764	17.634	6.307	3.050	1.680	1.572	521.281 MCM

Momentary Peak 720.00 CMS, at 156.45 M (MSL), at 12.00 Hours, on Sep 24, 1996

Runoff Yield 14.79 Liters/Second/Square KM, Momentary Peak Yield 644.007 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

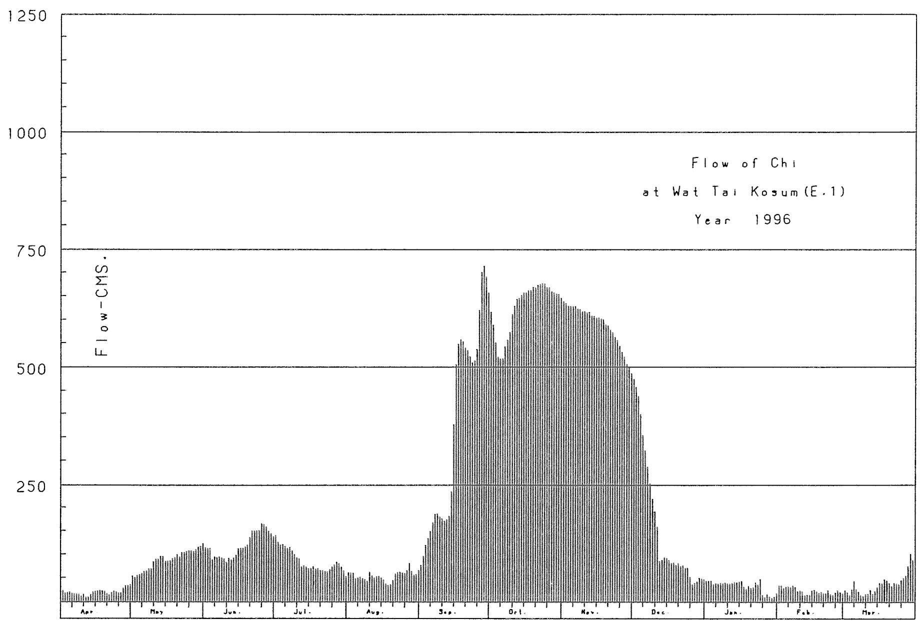
Chi River at Wat Tai Kosum, Maha Sarakham (E.1)

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	In the vicinity of Wat Tai Kosum.
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	Rather Unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.Flow regulated by Kui Chuak barrage about 20 kilometers upstream from the gage site. Stage-discharge relation defined by 13 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.24	137.99	139.06	139.50	138.16	138.43	144.72	144.93	143.37	137.73	137.52	137.27	
2	137.08	137.94	139.06	139.29	138.12	138.79	144.46	144.88	143.19	137.78	137.49	137.12	
3	137.14	138.01	139.05	139.16	138.14	139.15	144.13	144.84	143.01	137.74	137.40	137.01	
4	137.14	138.08	138.66	139.21	137.84	139.41	143.84	144.82	142.61	137.59	137.42	137.27	
5	137.10	138.13	138.74	139.12	137.92	139.63	143.78	144.83	142.18	137.59	137.47	137.76	
6	137.03	138.18	138.73	139.07	137.93	139.92	143.80	144.82	141.80	137.60	137.39	137.29	
7	137.07	138.22	138.74	139.08	137.90	140.16	144.04	144.78	141.43	137.62	137.53	137.19	
8	137.00	138.28	138.73	138.97	137.80	140.17	144.18	144.76	141.01	137.64	137.41	136.97	
9	136.93	138.31	138.67	138.83	137.75	140.09	144.32	144.73	140.62	137.64	137.22	136.94	
10	137.01	138.55	138.55	138.74	138.15	140.02	144.68	144.72	140.24	137.64	137.27	137.06	
11	136.84	138.65	138.69	138.67	138.03	139.96	144.83	144.71	139.79	137.64	137.17	137.05	
12	136.84	138.68	138.64	138.39	137.88	139.99	144.97	144.71	138.57	137.64	137.02	137.29	
13	136.99	138.78	138.70	138.40	138.00	140.12	144.98	144.65	138.65	137.65	136.99	137.04	
14	137.17	138.75	138.82	138.38	137.98	140.82	145.05	144.63	138.71	137.68	137.02	137.18	
15	137.16	138.59	139.03	138.29	137.92	142.39	145.08	144.61	138.72	137.68	137.23	137.42	
16	137.18	138.57	139.07	138.32	137.78	143.68	145.10	144.60	138.65	137.76	137.26	137.62	
17	137.26	138.62	139.04	138.37	137.61	144.09	145.12	144.59	138.53	137.42	137.21	137.64	
18	137.19	138.67	139.11	138.30	137.49	144.19	145.14	144.57	138.52	137.32	137.09	137.82	
19	137.21	138.74	139.16	138.30	137.57	144.14	145.19	144.48	138.45	137.46	137.19	137.79	
20	137.09	138.82	139.45	138.25	137.76	144.03	145.19	144.45	138.50	137.38	137.07	137.61	
21	136.96	138.76	139.64	138.21	138.11	143.97	145.23	144.38	138.41	137.38	137.10	137.49	
22	137.14	138.89	139.66	138.21	138.15	143.85	145.26	144.32	138.41	137.65	137.24	137.64	
23	137.17	138.92	139.64	138.17	138.18	143.70	145.26	144.24	138.34	137.56	137.06	137.59	
24	137.17	138.93	139.67	138.28	138.12	143.76	145.27	144.17	138.32	137.86	136.97	137.58	
25	137.07	138.98	139.89	138.39	138.14	143.99	145.20	144.07	137.98	137.02	137.15	137.81	
26	137.09	138.96	139.84	138.44	138.22	144.75	145.18	143.94	137.58	136.81	137.24	137.88	
27	137.36	138.96	139.79	138.57	138.52	145.49	145.12	143.82	137.62	137.05	137.16	138.04	
28	137.47	139.00	139.63	138.48	138.19	145.61	145.08	143.68	137.73	136.84	137.05	138.38	
29	137.51	139.11	139.58	138.38	138.06	145.39	145.07	143.61	137.89	136.81		138.87	
30	137.52	139.12	139.46	138.20	138.07	145.08	145.05	143.48	137.88	136.84		138.61	
31		139.24		137.97	138.25		144.98		137.81	137.07		138.44	
Mean	137.14	138.63	139.15	138.58	137.99	142.16	144.82	144.46	139.50	137.45	137.23	137.57	
Max	137.52	139.24	139.89	139.50	138.52	145.61	145.27	144.93	143.37	137.86	137.53	138.87	145.61
Min	136.84	137.94	138.55	137.97	137.49	138.43	143.78	143.48	137.58	136.81	136.97	136.94	136.81

Annual Max Momentary Gage Height 145.64 M (MSL), at 6.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 136.64 M (MSL), River Bed 133.04 M (MSL)
Left Bank Elevation 149.24 M (MSL)
Right Bank Elevation 149.17 M (MSL), Drainage Area 29788 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.6	55.6	115.6	142.0	64.3	79.1	619.2	642.3	477.0	45.2	36.8	26.8	
2	19.2	53.6	115.6	129.4	62.1	99.4	590.6	636.8	459.0	47.2	35.6	20.8	
3	21.6	56.5	115.0	121.6	63.2	121.0	554.3	632.4	441.0	45.6	32.0	16.4	
4	21.6	60.0	91.8	124.6	49.6	136.6	524.0	630.2	401.0	39.6	32.8	26.8	
5	20.0	62.6	96.4	119.2	52.8	151.1	518.0	631.3	358.2	39.6	34.8	46.4	
6	17.2	65.4	95.8	116.2	53.2	171.4	520.0	630.2	324.0	40.0	31.6	27.6	
7	18.8	67.6	96.4	116.8	52.0	188.2	544.4	625.8	290.7	40.8	37.2	23.6	
8	16.0	70.9	95.8	110.2	48.0	188.9	559.8	623.6	253.6	41.6	32.4	15.1	
9	13.9	72.5	92.4	101.8	46.0	183.3	575.2	620.3	222.0	41.6	24.8	14.2	
10	16.4	85.8	85.8	96.4	63.7	178.4	614.8	619.2	193.8	41.6	26.8	18.4	
11	11.2	91.2	93.5	92.4	57.5	174.2	631.3	618.1	162.3	41.6	22.8	18.0	
12	11.2	92.9	90.7	76.9	51.2	176.3	646.7	618.1	86.9	41.6	16.8	27.6	
13	15.7	98.8	94.0	77.5	56.0	185.4	647.8	611.5	91.2	42.0	15.7	23.2	
14	22.8	97.0	101.2	76.4	55.2	237.9	655.5	609.3	94.6	43.2	16.8	23.2	
15	22.4	87.9	113.8	71.4	52.8	379.0	658.8	607.1	95.2	43.2	25.2	32.8	
16	23.2	86.9	116.2	73.1	47.2	508.0	661.0	606.0	89.6	46.4	26.4	40.8	
17	26.4	89.6	114.4	75.8	40.4	549.9	663.2	604.9	84.6	32.8	24.4	41.6	
18	23.6	92.4	118.6	72.0	35.6	560.9	665.4	602.7	84.1	28.8	19.6	48.8	
19	24.4	96.4	121.6	72.0	38.8	555.4	670.9	592.8	80.2	34.4	23.6	47.6	
20	19.6	101.2	139.0	69.2	46.4	543.3	670.9	589.5	83.0	31.2	18.8	40.4	
21	14.8	97.6	151.8	67.1	61.5	537.0	675.3	581.8	78.1	31.2	20.0	35.6	
22	21.6	105.4	153.2	67.1	63.7	525.0	678.6	575.2	78.1	42.0	25.6	41.6	
23	22.8	107.2	151.8	64.8	65.4	510.0	678.6	566.4	74.2	38.4	18.4	39.6	
24	22.8	107.8	153.9	70.9	62.1	516.0	679.7	558.7	73.1	50.4	15.1	39.2	
25	18.8	110.8	169.3	76.9	63.2	539.0	672.0	547.7	55.2	16.8	22.0	48.4	
26	19.6	109.6	165.8	79.7	67.6	622.5	669.8	534.0	39.2	10.3	25.6	51.2	
27	30.4	109.6	162.3	86.9	84.1	703.9	663.2	522.0	40.8	18.0	22.4	58.0	
28	34.8	112.0	151.1	81.9	65.9	717.1	658.8	508.0	45.2	11.2	18.0	76.4	
29	36.4	118.6	147.6	76.4	59.0	692.9	657.7	501.0	51.6	10.3		104.2	
30	36.8	119.2	139.6	66.5	59.5	658.8	655.5	488.0	51.2	11.2		89.1	
31		126.4		54.8	69.2		647.8		48.4	18.8		79.7	
Total	649.6	2809.0	3650.0	2727.9	1757.2	11389.9	19528.8	17734.9	5007.1	1066.6	702.0	1243.1	68266.1 CMSDAY
Mean	21.7	90.6	121.7	88.0	56.7	379.7	630.0	591.2	161.5	34.4	25.1	40.1	187.0 CMS
Max	36.8	126.4	169.3	142.0	84.1	717.1	679.7	642.3	477.0	50.4	37.2	104.2	717.1 CMS
Min	11.2	53.6	85.8	54.8	35.6	79.1	518.0	488.0	39.2	10.3	15.1	14.2	10.3 CMS
Runoff	56.13	242.70	315.36	235.69	151.82	984.09	1687.29	1532.30	432.61	92.15	60.65	107.40	5898.19 MCM

Momentary Peak 720.60 CMS, at 145.64 M (MSL), at 6.00 Hours, on Sep 28, 1996

Runoff Yield 6.28 Liters/Second/Square KM, Momentary Peak Yield 24.191 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

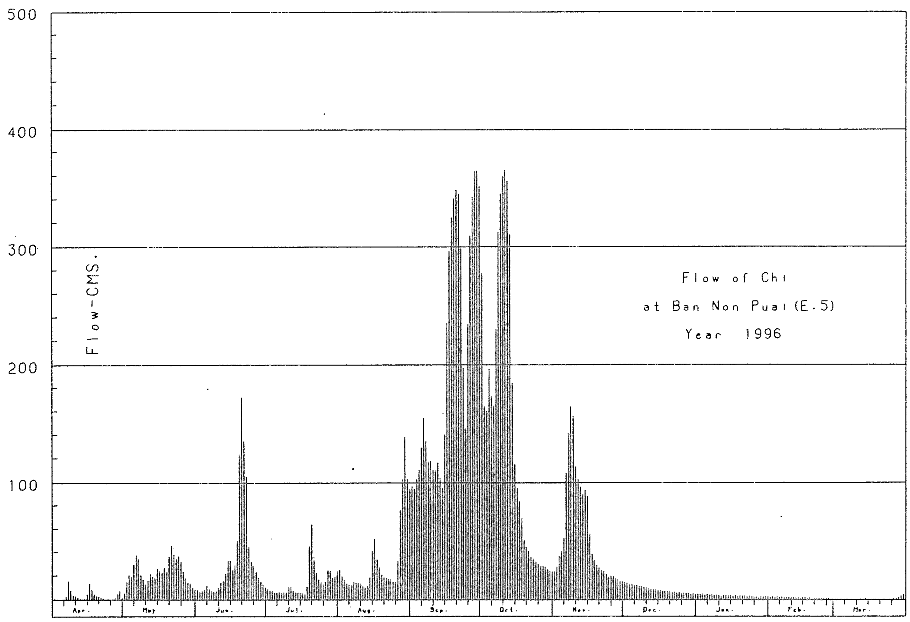
Chi River at Ban Non Puai, Chaiyaphum (E.5)

Location	Lat. 15°-46′-07″ N., Long. 101°-49′-03″ E., on left bank near Ban Non Puai about 30 meters downstream from Ban Tango, 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 automatic gage building.
Elevation	+197.540 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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.14	190.33	190.41	190.44	190.77	191.92	195.62	190.74	190.57	190.30	190.19	190.11	
2	190.08	190.56	190.37	190.42	190.67	191.85	193.68	190.80	190.55	190.30	190.19	190.10	
3	190.03	190.68	190.39	190.39	190.60	192.15	193.61	190.93	190.54	190.30	190.19	190.10	
4	190.02	190.66	190.44	190.36	190.55	192.36	194.31	190.97	190.53	190.29	190.19	190.10	
5	190.06	190.84	190.50	190.35	190.52	192.88	193.87	191.10	190.52	190.29	190.18	190.10	
6	190.23	190.94	190.44	190.35	190.52	193.49	193.69	192.28	190.51	190.28	190.18	190.10	
7	190.59	190.90	190.39	190.34	190.57	193.00	194.90	193.18	190.50	190.28	190.17	190.09	
8	190.40	190.69	190.38	190.35	190.56	192.58	196.11	193.68	190.49	190.27	190.17	190.08	
9	190.27	190.60	190.38	190.36	190.55	192.58	196.56	193.51	190.48	190.27	190.17	190.09	
10	190.20	190.52	190.47	190.49	190.55	192.37	196.75	192.46	190.46	190.26	190.16	190.08	
11	190.15	190.60	190.55	190.48	190.50	192.35	196.81	192.14	190.45	190.26	190.16	190.07	
12	190.13	190.71	190.59	190.39	190.46	192.55	196.69	191.91	190.44	190.26	190.16	190.09	
13	190.10	190.65	190.71	190.36	190.50	192.15	196.09	191.69	190.43	190.25	190.17	190.12	
14	190.09	190.64	190.88	190.34	190.64	191.88	194.10	191.84	190.42	190.24	190.16	190.11	
15	190.28	190.78	190.88	190.34	190.98	193.14	192.51	191.66	190.41	190.24	190.16	190.11	
16	190.55	190.74	190.77	190.33	191.09	194.99	191.87	191.13	190.41	190.24	190.16	190.10	
17	190.43	190.73	190.82	190.31	190.90	195.88	191.50	190.95	190.40	190.24	190.14	190.09	
18	190.30	190.79	191.08	190.49	190.80	196.29	191.23	190.88	190.39	190.23	190.14	190.08	
19	190.24	190.74	192.73	191.02	190.70	196.50	191.08	190.83	190.39	190.23	190.14	190.06	
20	190.20	190.92	193.85	191.20	190.64	196.60	191.01	190.79	190.38	190.23	190.14	190.05	
21	190.15	191.03	193.02	190.89	190.63	196.55	190.97	190.76	190.37	190.22	190.13	190.06	
22	190.12	190.94	192.22	190.72	190.62	195.92	190.92	190.74	190.36	190.22	190.12	190.05	
23	190.11	190.90	191.02	190.62	190.61	194.32	190.90	190.71	190.35	190.22	190.13	190.04	
24	190.10	190.93	190.87	190.56	190.58	193.28	190.87	190.65	190.35	190.22	190.13	190.04	
25	190.10	190.87	190.82	190.53	190.56	194.96	190.83	190.68	190.33	190.20	190.12	190.06	
26	190.11	190.74	190.74	190.57	190.88	196.07	190.82	190.66	190.33	190.17	190.11	190.11	
27	190.15	190.63	190.64	190.76	191.28	196.52	190.82	190.63	190.33	190.16	190.11	190.14	
28	190.33	190.56	190.58	190.74	192.12	196.80	190.80	190.61	190.32	190.20	190.11	190.15	
29	190.38	190.54	190.52	190.64	193.09	196.81	190.77	190.59	190.32	190.20		190.25	
30	190.12	190.47	190.48	190.65	192.14	196.63	190.74	190.57	190.31	190.20		190.29	
31		190.42		190.74	191.86		190.73		190.30	190.19		190.22	
Mean	190.21	190.71	190.93	190.53	190.89	194.18	192.94	191.34	190.42	190.24	190.15	190.10	
Max	190.59	191.03	193.85	191.20	193.09	196.81	196.81	193.68	190.57	190.30	190.19	190.29	196.81
Min	190.02	190.33	190.37	190.31	190.46	191.85	190.73	190.57	190.30	190.16	190.11	190.04	190.02

Annual Max Momentary Gage Height 196.83 M (MSL), at 18.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 186.07 M (MSL), River Bed 185.97 M (MSL)
Left Bank Elevation 199.72 M (MSL)
Right Bank Elevation 199.64 M (MSL), Drainage Area 4254 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.8	5.9	8.4	9.6	26.2	96.6	278.4	24.4	15.5	5.0	2.8	1.2	
2	0.9	15.0	7.1	8.8	20.5	94.5	164.6	28.0	14.5	5.0	2.8	1.0	
3	0.6	21.0	7.7	7.7	17.0	103.5	161.3	37.7	14.0	5.0	2.8	1.0	
4	0.6	20.0	9.6	6.8	14.5	110.6	196.6	41.3	13.5	4.8	2.8	1.0	
5	0.8	30.8	12.0	6.5	13.0	130.2	173.8	53.0	13.0	4.8	2.6	1.0	
6	3.6	38.6	9.6	6.5	13.0	155.6	165.1	107.8	12.5	4.6	2.6	1.0	
7	16.5	35.0	7.7	6.2	15.5	135.0	231.1	142.2	12.0	4.6	2.4	0.9	
8	8.0	21.5	7.4	6.5	15.0	118.3	312.7	164.6	11.6	4.4	2.4	0.9	
9	4.4	17.0	7.4	6.8	14.5	118.3	346.1	156.5	11.2	4.4	2.4	0.9	
10	3.0	13.0	10.8	11.6	14.5	110.9	360.7	114.1	10.4	4.2	2.2	0.9	
11	2.0	17.0	14.5	11.2	12.0	110.3	365.4	103.2	10.0	4.2	2.2	0.9	
12	1.6	22.6	16.5	7.7	10.4	117.2	356.1	96.3	9.6	4.2	2.2	0.9	
13	1.0	19.5	22.6	6.8	12.0	103.5	311.3	89.7	9.2	4.0	2.4	1.4	
14	0.9	19.0	33.6	6.2	19.0	95.4	185.0	94.2	8.8	3.8	2.2	1.2	
15	4.6	26.8	33.6	6.2	42.2	140.6	115.8	88.8	8.4	3.8	2.2	1.2	
16	14.5	24.4	26.2	5.9	52.1	236.4	95.1	56.6	8.4	3.8	2.2	1.0	
17	9.2	23.8	29.4	5.3	35.0	296.6	84.5	39.5	8.0	3.8	1.8	0.9	
18	5.0	27.4	51.2	11.6	28.0	325.7	69.5	33.6	7.7	3.6	1.8	0.9	
19	3.8	24.4	124.2	45.8	22.0	341.5	51.2	30.1	7.7	3.6	1.8	0.8	
20	3.0	36.8	172.8	65.0	19.0	349.2	44.9	27.4	7.4	3.6	1.8	0.8	
21	2.0	46.7	135.8	34.3	18.5	345.4	41.3	25.6	7.1	3.4	1.6	0.8	
22	1.4	38.6	105.7	23.2	18.0	299.4	36.8	24.4	6.8	3.4	1.4	0.8	
23	1.2	35.0	45.8	18.0	17.5	197.2	35.0	22.6	6.5	3.4	1.6	0.7	
24	1.0	37.7	32.9	15.0	16.0	146.2	32.9	19.5	6.5	3.4	1.6	0.7	
25	1.0	32.9	29.4	13.5	15.0	234.6	30.1	21.0	5.9	3.0	1.4	0.8	
26	1.2	24.4	24.4	15.5	33.6	309.9	29.4	20.0	5.9	2.4	1.2	1.2	
27	2.0	18.5	19.0	25.6	77.0	343.0	29.4	18.5	5.9	2.2	1.2	1.8	
28	5.9	15.0	16.0	24.4	102.6	364.6	28.0	17.5	5.6	3.0	1.2	2.0	
29	7.4	14.0	13.0	19.0	138.6	365.4	26.2	16.5	5.6	3.0		4.0	
30	1.4	10.8	11.2	19.5	103.2	351.5	24.4	15.5	5.3	3.0		4.8	
31		8.8		24.4	94.8		23.8		5.0	2.8		3.4	
Total	110.3	741.9	1045.5	481.1	1050.2	6247.1	4406.5	1730.1	279.5	118.2	57.6	40.8	16308.8 CMSDAY
Mean	3.7	23.9	34.9	15.5	33.9	208.2	142.1	57.7	9.0	3.8	2.1	1.3	44.7 CMS
Max	16.5	46.7	172.8	65.0	138.6	365.4	365.4	164.6	15.5	5.0	2.8	4.8	365.4 CMS
Min	0.6	5.9	7.1	5.3	10.4	94.5	23.8	15.5	5.0	2.2	1.2	0.7	0.6 CMS
Runoff	9.53	64.10	90.33	41.57	90.74	539.75	380.72	149.48	24.15	10.21	4.98	3.53	1409.08 MCM

Momentary Peak 366.91 CMS, at 196.83 M (MSL), at 18.00 Hours, on Sep 28, 1996

Runoff Yield 10.50 Liters/Second/Square KM, Momentary Peak Yield 86.251 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

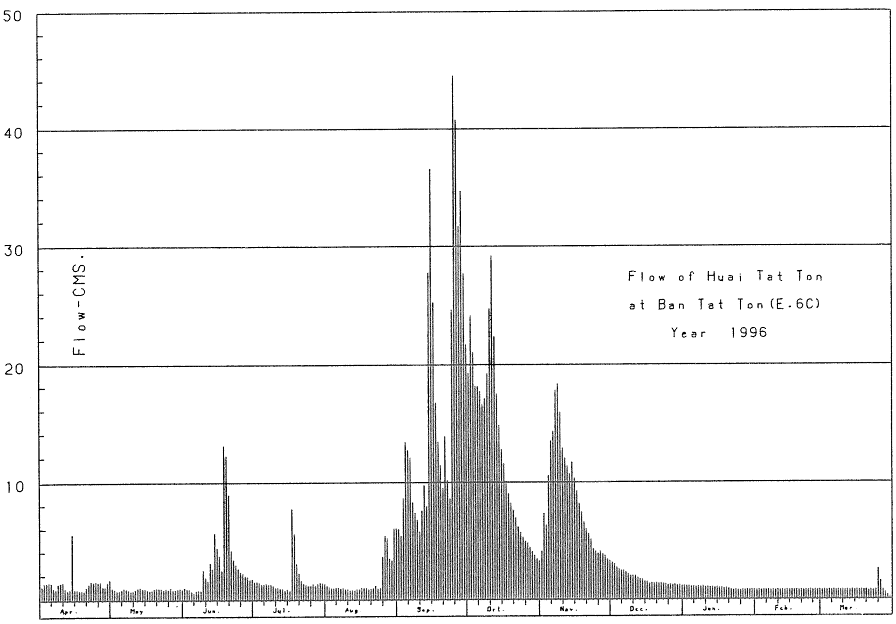
Huai Tat Ton at Ban Tat Ton, Chaiyaphum (E.6C)

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	About 2 meters from the Sling Pole.
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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.Lam Pa Thao Dam situated about 5 kilometers and the weir situated about 2 kilometers upstream from the gage site. Stage-discharge relation defined by 23 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.09	0.08	0.21	0.14	1.19	3.14	0.84	0.63	0.13	0.02	0.02	
2	0.18	0.04	0.06	0.23	0.10	1.09	3.61	1.41	0.59	0.13	0.02	0.02	
3	0.20	0.01	0.04	0.20	0.08	1.63	3.34	1.25	0.53	0.12	0.02	0.02	
4	0.20	-0.01	-0.01	0.17	0.07	2.36	3.02	1.93	0.48	0.12	0.02	0.02	
5	0.20	0.04	-0.07	0.16	0.10	2.27	3.02	2.38	0.46	0.11	0.02	0.02	
6	0.07	0.07	0.01	0.19	0.08	2.17	2.97	2.49	0.45	0.11	0.02	0.02	
7	0.05	0.06	0.01	0.15	0.07	1.58	2.82	2.98	0.43	0.11	0.02	0.02	
8	0.16	0.02	0.02	0.17	0.07	1.42	2.88	3.04	0.38	0.11	0.02	0.02	
9	0.20	0.00	0.46	0.13	0.05	1.33	3.14	2.73	0.35	0.11	0.02	0.02	
10	0.20	0.01	0.32	0.10	0.04	1.15	3.66	2.29	0.34	0.10	0.02	0.02	
11	0.06	0.03	0.23	0.08	0.02	1.45	3.95	2.17	0.34	0.10	0.02	0.02	
12	0.02	0.09	0.63	0.07	0.01	1.82	3.47	2.06	0.30	0.10	0.02	0.02	
13	0.03	0.09	0.49	0.05	0.02	1.52	2.94	1.96	0.28	0.09	0.02	0.02	
14	1.12	0.07	1.13	0.02	0.04	3.86	2.56	2.12	0.26	0.09	0.02	0.02	
15	0.04	0.05	0.90	0.04	0.05	4.38	2.27	1.91	0.23	0.09	0.02	0.02	
16	0.03	0.02	0.75	0.01	0.08	3.70	2.10	1.73	0.21	0.08	0.02	0.02	
17	0.02	0.02	0.47	1.48	0.09	2.84	1.86	1.56	0.18	0.08	0.02	0.02	
18	0.00	0.01	2.33	1.13	0.07	2.37	1.70	1.43	0.18	0.07	0.02	0.02	
19	0.01	0.07	2.20	0.60	0.05	2.07	1.56	1.30	0.19	0.07	0.02	0.02	
20	0.09	0.07	1.69	0.41	0.05	1.77	1.47	1.19	0.19	0.06	0.02	0.02	
21	0.17	0.08	0.85	0.24	0.08	2.43	1.35	1.13	0.19	0.02	0.02	0.01	
22	0.22	0.06	0.70	0.19	0.13	1.88	1.23	1.03	0.18	0.02	0.02	0.01	
23	0.22	0.04	0.58	0.15	0.07	1.63	1.14	0.88	0.18	0.02	0.02	0.01	
24	0.22	0.06	0.51	0.14	0.07	3.65	1.07	0.83	0.16	0.02	0.02	0.01	
25	0.22	0.05	0.44	0.14	0.75	4.76	1.01	0.80	0.15	0.02	0.02	0.49	
26	0.21	0.08	0.39	0.17	1.09	4.59	0.97	0.83	0.15	0.02	0.02	0.22	
27	0.12	0.03	0.35	0.14	1.05	4.11	0.91	0.79	0.15	0.02	0.02	0.02	
28	0.10	0.02	0.32	0.17	0.70	4.28	0.82	0.75	0.15	0.02	0.02	-0.06	
29	0.20	0.06	0.27	0.21	0.68	3.86	0.76	0.70	0.14	0.02		-0.13	
30	0.27	0.06	0.27	0.18	1.20	3.40	0.71	0.66	0.14	0.02		-0.18	
31		0.05		0.17	1.21		0.65		0.13	0.02		-0.18	
Mean	0.16	0.05	0.55	0.24	0.27	2.55	2.13	1.57	0.28	0.07	0.02	0.02	
Max	1.12	0.09	2.33	1.48	1.21	4.76	3.95	3.04	0.63	0.13	0.02	0.49	4.76
Min	0.00	-0.01	-0.07	0.01	0.01	1.09	0.65	0.66	0.13	0.02	0.02	-0.18	-0.18

Annual Max Momentary Gage Height 5.35 M (A.D), at 15.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.40 M (A.D)
Left Bank Elevation 7.10 M (A.D)
Right Bank Elevation 6.94 M (A.D), Drainage Area 300 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	1.07	1.04	1.54	1.26	6.05	19.26	4.20	3.22	1.22	0.86	0.86	
2	1.42	0.92	0.98	1.62	1.10	5.50	24.13	7.36	3.06	1.22	0.86	0.86	
3	1.50	0.83	0.92	1.50	1.04	8.68	21.10	6.40	2.82	1.18	0.86	0.86	
4	1.50	0.77	0.77	1.38	1.01	13.42	18.18	10.55	2.62	1.18	0.86	0.86	
5	1.50	0.92	0.59	1.34	1.10	12.79	18.18	13.56	2.54	1.14	0.86	0.86	
6	1.01	1.01	0.83	1.46	1.04	12.11	17.77	14.33	2.50	1.14	0.86	0.86	
7	0.95	0.98	0.83	1.30	1.01	8.38	16.65	17.85	2.42	1.14	0.86	0.86	
8	1.34	0.86	0.86	1.38	1.01	7.42	17.10	18.36	2.22	1.14	0.86	0.86	
9	1.50	0.80	2.54	1.22	0.95	6.88	19.26	16.01	2.10	1.14	0.86	0.86	
10	1.50	0.83	1.98	1.10	0.92	5.82	24.78	12.93	2.06	1.10	0.86	0.86	
11	0.98	0.89	1.62	1.04	0.86	7.60	29.20	12.11	2.06	1.10	0.86	0.86	
12	0.86	1.07	3.22	1.01	0.83	9.83	22.40	11.39	1.90	1.10	0.86	0.86	
13	0.89	1.07	2.66	0.95	0.86	8.02	17.55	10.74	1.82	1.07	0.86	0.86	
14	5.66	1.01	5.71	0.86	0.92	27.78	14.82	11.78	1.74	1.07	0.86	0.86	
15	0.92	0.95	4.50	0.92	0.95	36.62	12.79	10.42	1.62	1.07	0.86	0.86	
16	0.89	0.86	3.75	0.83	1.04	25.30	11.65	9.28	1.54	1.04	0.86	0.86	
17	0.86	0.86	2.58	7.78	1.07	16.80	10.09	8.26	1.42	1.04	0.86	0.86	
18	0.80	0.83	13.21	5.71	1.01	13.49	9.10	7.48	1.42	1.01	0.86	0.86	
19	0.83	1.01	12.30	3.10	0.95	11.46	8.26	6.70	1.46	1.01	0.86	0.86	
20	1.07	1.01	9.04	2.34	0.95	9.52	7.72	6.05	1.46	0.98	0.86	0.86	
21	1.38	1.04	4.25	1.66	1.04	13.91	7.00	5.71	1.46	0.86	0.86	0.83	
22	1.58	0.98	3.50	1.46	1.22	10.22	6.28	5.17	1.42	0.86	0.86	0.83	
23	1.58	0.92	3.02	1.30	1.01	8.68	5.77	4.40	1.42	0.86	0.86	0.83	
24	1.58	0.98	2.74	1.26	1.01	24.65	5.39	4.15	1.34	0.86	0.86	0.83	
25	1.58	0.95	2.46	1.26	3.75	44.52	5.05	4.00	1.30	0.86	0.86	2.66	
26	1.54	1.04	2.26	1.38	5.50	40.80	4.85	4.15	1.30	0.86	0.86	1.58	
27	1.18	0.89	2.10	1.26	5.27	31.76	4.55	3.95	1.30	0.86	0.86	0.86	
28	1.10	0.86	1.98	1.38	3.50	34.72	4.10	3.75	1.30	0.86	0.86	0.62	
29	1.50	0.98	1.78	1.54	3.42	27.78	3.80	3.50	1.26	0.86		0.41	
30	1.78	0.98	1.78	1.42	6.10	21.70	3.55	3.34	1.26	0.86		0.26	
31		0.95		1.38	6.16		3.30		1.22	0.86		0.26	
Total	41.96	29.12	95.80	53.68	57.86	512.21	393.63	257.88	56.58	31.55	24.08	27.17	1581.52 CMSDAY
Mean	1.40	0.94	3.19	1.73	1.87	17.07	12.70	8.60	1.83	1.02	0.86	0.88	4.33 CMS
Max	5.66	1.07	13.21	7.78	6.16	44.52	29.20	18.36	3.22	1.22	0.86	2.66	44.52 CMS
Min	0.80	0.77	0.59	0.83	0.83	5.50	3.30	3.34	1.22	0.86	0.86	0.26	0.26 CMS
Runoff	3.625	2.516	8.277	4.638	4.999	44.255	34.010	22.281	4.889	2.726	2.081	2.347	136.643 MCM

Momentary Peak 58.30 CMS, at 5.35 M (A.D), at 15.00 Hours, on Sep 25, 1996
Runoff Yield 14.44 Liters/Second/Square KM, Momentary Peak Yield 194.333 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

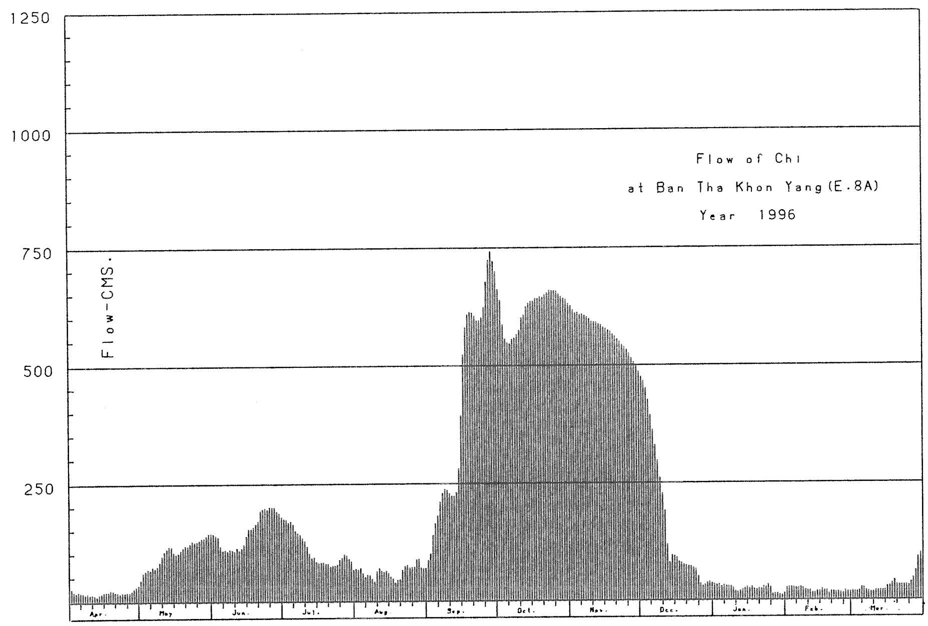
Chi River at Ban Din Dam, Maha Sarakham (E.8A)

Location	Lat. 16°-13′-51″ N., Long. 103°-16′-29″ E., on right bank at the bridge of Maha Sarakham-Kalasin Highway, Amphoe Muang, 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 fair. Flow regulated by Kui Chuak barrage above gage site. Stage-discharge relation defined by 14 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.51	134.78	136.37	136.82	135.16	135.48	142.76	142.60	141.21	134.65	134.48	134.29	
2	134.31	135.02	136.30	136.78	135.13	135.68	142.66	142.55	141.09	134.63	134.48	134.24	
3	134.29	135.10	136.27	136.71	135.20	136.31	142.37	142.52	140.91	134.63	134.48	134.26	
4	134.32	135.16	135.97	136.73	135.02	136.65	142.14	142.52	140.59	134.54	134.46	134.27	
5	134.30	135.15	135.84	136.65	134.88	136.90	142.05	142.50	140.19	134.58	134.46	134.49	
6	134.24	135.23	135.84	136.46	134.94	137.25	142.04	142.50	139.79	134.56	134.43	134.44	
7	134.21	135.21	135.81	136.37	134.94	137.50	142.12	142.49	139.38	134.52	134.51	134.32	
8	134.23	135.25	135.85	136.33	134.78	137.60	142.15	142.47	138.94	134.54	134.43	134.26	
9	134.18	135.42	135.85	136.22	134.69	137.58	142.21	142.45	138.46	134.43	134.37	134.23	
10	134.17	135.62	135.78	136.14	135.07	137.48	142.29	142.41	137.98	134.29	134.32	134.24	
11	134.16	135.80	135.93	135.98	135.20	137.43	142.46	142.41	137.46	134.21	134.30	134.29	
12	134.09	135.90	135.81	135.72	135.09	137.41	142.49	142.40	136.27	134.31	134.19	134.31	
13	134.18	135.96	135.92	135.56	135.04	137.52	142.59	142.38	135.61	134.35	134.17	134.31	
14	134.24	135.96	136.03	135.58	135.10	138.14	142.62	142.36	135.85	134.45	134.27	134.32	
15	134.27	135.75	136.31	135.43	135.00	139.43	142.64	142.33	135.86	134.48	134.24	134.31	
16	134.28	135.68	136.50	135.36	134.86	140.82	142.65	142.31	135.78	134.41	134.38	134.50	
17	134.31	135.74	136.51	135.41	134.81	141.41	142.67	142.29	135.64	134.52	134.31	134.57	
18	134.36	135.81	136.56	135.39	134.65	141.67	142.68	142.26	135.57	134.37	134.30	134.67	
19	134.36	135.93	136.66	135.37	134.74	141.73	142.69	142.22	135.51	134.37	134.16	134.83	
20	134.31	135.99	136.74	135.34	134.77	141.71	142.69	142.17	135.46	134.41	134.25	134.60	
21	134.25	135.97	137.05	135.27	135.11	141.64	142.71	142.13	135.46	134.41	134.27	134.59	
22	134.24	136.07	137.09	135.29	135.27	141.55	142.73	142.07	135.42	134.52	134.21	134.57	
23	134.26	136.12	137.10	135.27	135.29	141.54	142.75	142.01	135.37	134.51	134.25	134.60	
24	134.28	136.11	137.08	135.33	135.21	141.62	142.75	141.95	135.31	134.61	134.19	134.58	
25	134.26	136.10	137.13	135.48	135.20	141.84	142.75	141.89	135.01	134.49	134.17	134.57	
26	134.25	136.17	137.12	135.55	135.24	142.37	142.74	141.79	134.67	134.14	134.30	134.74	
27	134.35	136.22	137.14	135.69	135.50	142.82	142.72	141.69	134.58	134.13	134.26	134.90	
28	134.45	136.21	137.04	135.63	135.50	143.00	142.69	141.57	134.61	134.17	134.22	135.23	
29	134.48	136.30	136.96	135.53	135.22	142.98	142.68	141.49	134.74	134.08		135.78	
30	134.55	136.35	136.86	135.42	135.16	142.90	142.66	141.34	134.76	134.08		135.93	
31		136.36		135.15	135.17		142.62		134.72	134.14		135.69	
Mean	134.29	135.76	136.45	135.81	135.06	139.60	142.54	142.20	136.85	134.40	134.32	134.61	
Max	134.55	136.36	137.14	136.82	135.50	143.00	142.76	142.60	141.21	134.65	134.51	135.93	143.00
Min	134.09	134.78	135.78	135.15	134.65	135.48	142.04	141.34	134.58	134.08	134.16	134.23	134.08

Annual Max Momentary Gage Height 143.01 M (MSL), at 12.00 Hours, on Sep 29, 1996
Zero Gage at Bottom Elevation 133.21 M (MSL), River Bed 133.50 M (MSL)
Left Bank Elevation 147.95 M (MSL)
Right Bank Elevation 147.78 M (MSL), Drainage Area 30764 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.4	47.9	145.9	177.5	69.6	88.8	662.4	628.0	476.8	35.2	28.2	20.6	
2	21.4	61.2	141.0	174.6	67.8	100.8	640.0	618.5	467.2	34.3	28.2	18.6	
3	20.6	66.0	138.9	169.7	72.0	141.7	587.5	612.8	452.8	34.3	28.2	19.4	
4	21.8	69.6	118.2	171.1	61.2	165.5	558.4	612.8	427.2	30.6	27.4	19.8	
5	21.0	69.0	110.4	165.5	53.4	183.5	549.0	609.0	395.2	32.2	27.4	28.6	
6	18.6	73.8	110.4	152.2	56.7	211.0	548.0	609.0	363.2	31.4	26.2	26.6	
7	17.4	72.6	108.6	145.9	56.7	231.0	556.2	607.3	331.5	29.8	29.4	21.8	
8	18.2	75.0	111.0	143.1	47.9	239.0	559.5	603.9	298.5	30.6	26.2	19.4	
9	16.2	85.2	111.0	135.4	43.0	237.4	566.2	600.5	262.5	26.2	23.8	18.2	
10	15.8	97.2	106.8	129.8	64.2	229.4	575.8	593.7	228.6	20.6	21.8	18.6	
11	15.4	108.0	115.8	118.8	72.0	225.4	602.2	593.7	192.9	17.4	21.0	20.6	
12	12.6	114.0	108.6	103.2	65.4	223.8	607.3	592.0	119.2	21.4	16.6	21.4	
13	16.2	117.6	115.2	93.6	62.4	232.6	626.1	589.0	82.5	23.0	15.8	21.4	
14	19.0	117.6	122.1	94.8	66.0	282.2	632.0	586.0	95.8	27.0	19.8	21.8	
15	20.5	105.0	141.7	85.8	60.0	395.7	636.0	581.5	96.3	28.2	18.6	21.4	
16	21.0	100.8	155.0	81.6	52.3	524.0	638.0	578.5	91.9	25.4	24.2	29.0	
17	22.5	104.4	155.7	84.6	49.5	583.0	642.0	575.8	84.2	29.8	21.4	31.8	
18	25.0	108.6	159.2	83.4	40.7	609.0	644.0	572.2	80.5	23.8	21.0	36.1	
19	25.0	115.8	166.2	82.2	45.7	615.0	646.0	567.4	77.5	23.8	15.4	43.5	
20	22.5	119.4	171.8	80.4	47.4	613.0	646.0	561.7	75.0	25.4	19.0	33.0	
21	19.5	118.2	195.0	76.2	66.6	606.0	650.4	557.3	75.0	25.4	19.8	32.6	
22	19.0	124.9	198.2	77.4	76.2	597.0	655.2	551.0	73.0	29.8	17.4	31.8	
23	20.0	128.4	199.0	76.2	77.4	596.0	660.0	545.0	70.5	29.4	19.0	33.0	
24	21.0	127.7	197.4	79.8	72.6	604.0	660.0	539.5	67.5	33.4	16.6	32.2	
25	20.0	127.0	201.4	88.8	72.0	626.0	660.0	534.1	52.5	28.6	15.8	31.8	
26	19.5	131.9	200.6	93.0	74.4	679.0	657.6	525.1	36.1	14.6	21.0	39.3	
27	24.5	135.4	202.2	101.4	90.0	724.0	652.8	516.7	32.2	14.2	19.4	47.0	
28	29.8	134.7	194.2	97.8	90.0	743.0	646.0	506.5	33.4	15.8	17.8	63.5	
29	31.4	141.0	188.0	91.8	73.2	722.4	644.0	499.7	39.3	12.2		91.9	
30	35.3	144.5	180.5	85.2	69.6	700.0	640.0	487.2	40.2	12.2		100.1	
31		145.2		69.0	70.2		632.0		38.4	14.6		86.9	
Total	640.1	3287.6	4570.0	3409.8	1986.1	12729.2	19280.6	17155.4	5257.4	780.6	606.4	1081.7	70784.9 CMSDAY
Mean	21.3	106.1	152.3	110.0	64.1	424.3	622.0	571.8	169.6	25.2	21.7	34.9	193.9 CMS
Max	35.3	145.2	202.2	177.5	90.0	743.0	662.4	628.0	476.8	35.2	29.4	100.1	743.0 CMS
Min	12.6	47.9	106.8	69.0	40.7	88.8	548.0	487.2	32.2	12.2	15.4	18.2	12.2 CMS
Runoff	55.30	284.05	394.85	294.61	171.60	1099.80	1665.84	1482.23	454.24	67.44	52.39	93.46	6115.82 MCM

Momentary Peak 730.80 CMS, at 143.01 M (MSL), at 12.00 Hours, on Sep 29, 1996

Runoff Yield 6.30 Liters/Second/Square KM, Momentary Peak Yield 23.755 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

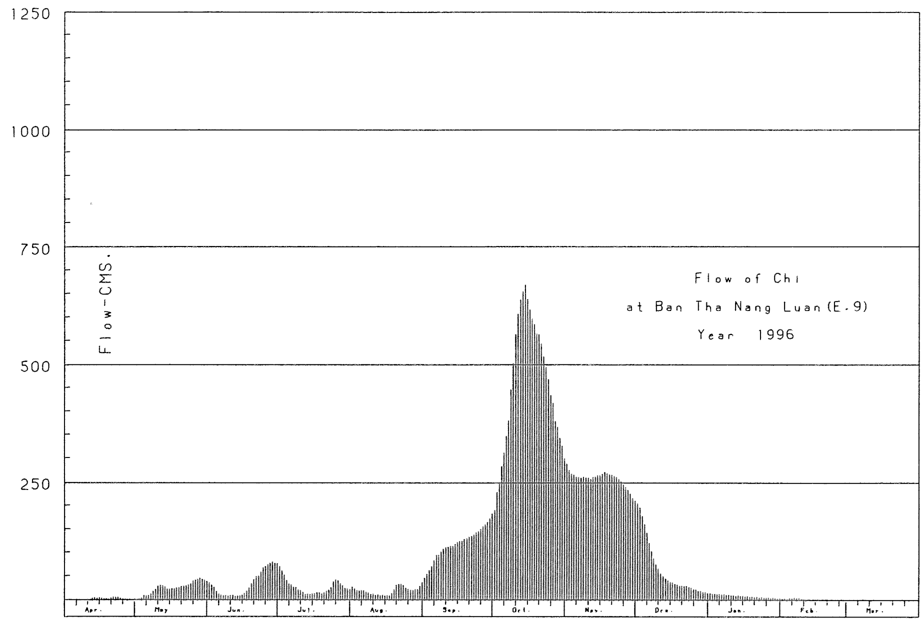
Chi River at Ban Chot, Khon Kaen (E.9)

Location	Lat. 16°05'49" N., Long. 102°34'23" E., on left bank about 80 meters downstream from the bridge on highway, Amphoe Manchakiri, Khon Kaen.
Drainage Area	11,020 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+151.11 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 25 meters from the top staff gage.
Elevation	+163.044 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1958 to date.
Rating Operation	
Period of Rating	1967 - 1973, 1986 - 1987, 1992 to date.
Rated by Float	-
Rated by Current Meter	1967 - 1980, 1983 - 1987, 1992 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 1996

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.09	152.64	155.32	156.90	154.76	155.85	160.74	161.56	160.96	153.87	152.81	152.43	
2	152.09	152.55	155.09	156.58	154.57	156.22	161.20	161.52	160.82	153.86	152.79	152.42	
3	152.07	152.99	154.71	156.15	154.28	156.62	161.38	161.50	160.50	153.81	152.77	152.41	
4	152.17	153.42	154.21	155.61	154.27	156.91	161.54	161.48	160.06	153.76	152.84	152.40	
5	152.18	153.38	153.70	155.23	154.31	157.44	161.62	161.46	159.51	153.76	152.95	152.39	
6	152.16	153.46	153.52	155.03	154.23	157.89	161.70	161.45	158.76	153.74	152.99	152.45	
7	152.14	153.80	153.43	154.79	154.08	157.87	161.77	161.45	158.19	153.69	152.96	152.55	
8	152.13	154.11	153.42	154.65	153.88	158.14	161.89	161.45	157.59	153.65	152.89	152.49	
9	152.14	154.46	153.41	154.40	153.75	158.31	161.96	161.45	157.11	153.59	152.80	152.42	
10	152.17	154.84	153.44	154.23	153.66	158.41	162.03	161.44	156.72	153.55	152.74	152.37	
11	152.27	155.07	153.50	154.01	153.62	158.49	162.07	161.43	156.33	153.45	152.61	152.35	
12	152.96	154.97	153.41	153.78	153.60	158.52	162.10	161.45	156.01	153.41	152.54	152.34	
13	152.97	154.73	153.31	153.72	153.54	158.56	162.11	161.46	155.81	153.39	152.50	152.32	
14	152.96	154.51	153.50	153.75	153.50	158.65	162.12	161.47	155.56	153.39	152.49	152.31	
15	152.95	154.41	153.61	153.83	153.45	158.83	162.10	161.48	155.44	153.39	152.49	152.29	
16	152.89	154.49	153.85	153.78	153.36	158.87	162.08	161.49	155.35	153.33	152.49	152.28	
17	152.84	154.55	154.24	154.02	153.39	158.93	162.06	161.51	155.24	153.29	152.49	152.26	
18	152.74	154.62	154.61	153.94	153.82	159.02	162.05	161.50	155.10	153.26	152.52	152.26	
19	152.72	154.72	155.25	153.85	154.44	159.10	162.03	161.49	154.99	153.19	152.54	152.26	
20	152.92	154.81	155.64	153.93	155.00	159.18	162.03	161.48	154.96	153.17	152.55	152.25	
21	153.09	154.92	155.96	154.10	155.21	159.27	162.01	161.47	154.93	153.16	152.55	152.24	
22	153.14	154.98	156.09	154.37	155.19	159.36	161.98	161.45	154.91	153.12	152.52	152.30	
23	153.02	155.06	156.46	154.74	154.93	159.48	161.95	161.43	154.79	153.09	152.49	152.34	
24	152.84	155.24	156.78	155.41	154.66	159.60	161.92	161.39	154.66	153.08	152.48	152.36	
25	152.78	155.50	156.91	155.63	154.41	159.71	161.87	161.35	154.52	153.06	152.47	152.39	
26	152.70	155.60	157.14	155.61	154.31	159.89	161.84	161.30	154.39	153.01	152.45	152.39	
27	152.59	155.73	157.24	155.26	154.32	160.05	161.77	161.26	154.28	152.99	152.44	152.43	
28	152.53	155.79	157.30	154.90	154.37	160.17	161.74	161.17	154.19	152.96	152.43	152.48	
29	152.45	155.73	157.24	154.64	154.46	160.38	161.69	161.09	154.10	152.90		152.51	
30	152.50	155.58	157.14	154.48	154.83	160.57	161.65	161.02	154.04	152.86		152.53	
31		155.52		154.49	155.35		161.59		153.93	152.85		152.54	
Mean	152.57	154.59	154.98	154.70	154.24	158.68	161.83	161.41	156.25	153.34	152.63	152.38	
Max	153.14	155.79	157.30	156.90	155.35	160.57	162.12	161.56	160.96	153.87	152.99	152.55	162.12
Min	152.07	152.55	153.31	153.72	153.36	155.85	160.74	161.02	153.93	152.85	152.43	152.24	152.07

Annual Max Momentary Gage Height 162.12 M (MSL), at 6.00 Hours, on Oct 14, 1996
Zero Gage at Bottom Elevation 151.11 M (MSL), River Bed 150.34 M (MSL)
Left Bank Elevation 166.80 M (MSL)
Right Bank Elevation 166.46 M (MSL), Drainage Area 11020 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.7	3.2	37.4	71.6	28.4	48.0	192.7	291.0	207.2	15.1	4.3	2.1	
2	0.7	2.8	33.3	63.9	25.6	55.6	229.0	277.0	197.4	15.0	4.2	2.1	
3	0.6	5.9	27.7	54.1	21.2	64.9	251.2	270.0	180.5	14.4	4.0	2.1	
4	0.9	10.2	20.2	43.2	21.1	71.8	284.0	266.8	162.1	13.9	4.6	2.0	
5	0.9	9.8	13.2	35.6	21.7	85.2	314.0	263.6	144.8	13.9	5.5	2.0	
6	0.9	10.6	11.2	32.5	20.5	97.0	350.0	262.0	122.0	13.6	5.9	2.2	
7	0.8	14.3	10.3	28.8	18.2	96.5	381.5	262.0	105.5	13.1	5.6	2.8	
8	0.8	18.7	10.2	26.7	15.3	104.1	449.0	262.0	89.1	12.6	4.9	2.5	
9	0.8	23.9	10.1	23.0	13.7	109.0	503.0	262.0	76.8	12.0	4.3	2.1	
10	0.9	29.6	10.4	20.5	12.8	111.9	566.5	260.4	67.3	11.6	3.8	1.8	
11	1.4	33.1	11.0	17.2	12.3	114.2	608.5	258.8	58.1	10.5	3.1	1.8	
12	5.6	31.6	10.1	14.1	12.1	115.1	640.0	262.0	51.2	10.1	2.7	1.7	
13	5.7	27.9	9.1	13.4	11.4	116.2	656.0	263.6	47.2	9.9	2.5	1.6	
14	5.6	24.6	11.0	13.7	11.0	118.8	672.0	265.2	42.2	9.9	2.5	1.6	
15	5.5	23.2	12.2	14.7	10.5	124.1	640.0	266.8	39.8	9.9	2.5	1.4	
16	4.9	24.4	14.9	14.1	9.6	125.2	619.0	268.4	38.0	9.3	2.5	1.4	
17	4.6	25.3	20.6	17.3	9.9	127.0	598.0	273.5	35.8	8.9	2.5	1.3	
18	3.8	26.3	26.2	16.1	14.5	129.6	587.5	270.0	33.5	8.6	2.6	1.3	
19	3.7	27.8	36.0	14.9	23.6	132.1	566.5	268.4	31.9	7.9	2.7	1.3	
20	5.2	29.2	43.8	15.9	32.0	134.6	566.5	266.8	31.4	7.7	2.8	1.3	
21	6.9	30.8	50.2	18.5	35.2	137.4	545.5	265.2	30.9	7.6	2.8	1.2	
22	7.4	31.7	52.8	22.6	34.9	140.2	519.0	262.0	30.7	7.2	2.6	1.5	
23	6.2	32.9	61.0	28.1	30.9	143.9	495.0	258.8	28.8	6.9	2.5	1.7	
24	4.6	35.8	68.7	39.2	26.9	147.6	471.0	252.6	26.9	6.8	2.4	1.8	
25	4.1	41.0	71.8	43.6	23.2	151.0	437.0	247.0	24.8	6.6	2.4	2.0	
26	3.5	43.0	77.5	43.2	21.7	156.6	419.0	240.0	22.9	6.1	2.2	2.0	
27	2.9	45.6	80.0	36.2	21.8	161.8	381.5	235.6	21.2	5.9	2.2	2.1	
28	2.7	46.8	81.6	30.5	22.6	166.0	368.0	226.0	19.9	5.6	2.1	2.4	
29	2.2	45.6	80.0	26.6	23.9	175.1	345.5	218.1	18.5	5.0		2.5	
30	2.5	42.6	77.5	24.2	29.5	183.7	327.5	211.8	17.6	4.7		2.7	
31		41.4		24.4	38.0		301.5		15.9	4.6		2.7	
Total	97.0	839.6	1080.0	888.4	654.0	3644.2	14285.4	7757.4	2019.9	294.9	92.7	59.0	31712.5 CMSDAY
Mean	3.2	27.1	36.0	28.7	21.1	121.5	460.8	258.6	65.2	9.5	3.3	1.9	86.9 CMS
Max	7.4	46.8	81.6	71.6	38.0	183.7	672.0	291.0	207.2	15.1	5.9	2.8	672.0 CMS
Min	0.6	2.8	9.1	13.4	9.6	48.0	192.7	211.8	15.9	4.6	2.1	1.2	0.6 CMS
Runoff	8.38	72.54	93.31	76.76	56.51	314.86	1234.26	670.24	174.52	25.48	8.01	5.10	2739.96 MCM

Momentary Peak 671.99 CMS, at 162.12 M (MSL), at 6.00 Hours, on Oct 14, 1996
Runoff Yield 7.88 Liters/Second/Square KM, Momentary Peak Yield 60.979 Liters/Second/Square KM

WATER YEAR 1996.

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 on highway, 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 abutment of the bridge.
Elevation	+154.907 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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Kui Chuak barrage about 15 kilometers. downstream from the gage site. Stage-discharge relation defined by 18 measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

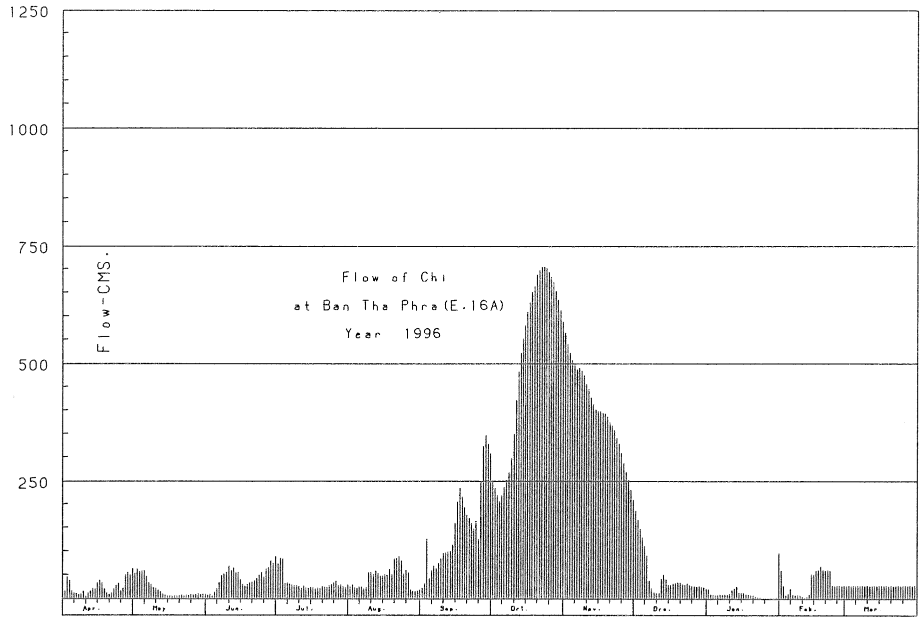
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	146.84	146.83	146.07	146.91	146.59	146.56	148.75	151.11	148.09	146.51	146.91	146.86	
2	146.89	146.87	146.11	146.93	146.66	146.68	148.58	150.95	147.86	146.18	146.86	146.86	
3	146.88	146.85	146.00	146.93	146.56	147.36	148.43	150.83	147.64	146.10	146.81	146.86	
4	146.84	146.85	146.31	146.70	146.56	146.78	148.31	150.74	147.40	146.06	146.82	146.86	
5	146.83	146.86	146.54	146.71	146.61	146.86	148.44	150.68	147.17	146.10	146.85	146.86	
6	146.83	146.80	146.71	146.67	146.58	146.90	148.60	150.60	146.94	146.10	146.81	146.86	
7	146.82	146.71	146.81	146.66	146.53	146.88	148.76	150.63	146.74	146.10	146.81	146.86	
8	146.82	146.65	146.83	146.62	146.56	146.91	148.90	150.59	146.53	146.10	146.81	146.86	
9	146.84	146.58	146.84	146.64	146.84	146.93	149.18	150.52	146.34	146.10	146.81	146.86	
10	146.80	146.53	146.90	146.60	146.84	146.96	149.62	150.41	146.24	146.16	146.77	146.86	
11	146.83	146.46	146.86	146.54	146.82	146.98	150.17	150.33	146.28	146.48	146.76	146.86	
12	146.84	146.40	146.88	146.63	146.86	146.99	150.58	150.21	146.77	146.53	146.76	146.86	
13	146.85	146.19	146.84	146.55	146.83	147.03	150.83	150.10	146.82	146.61	146.82	146.86	
14	146.85	146.02	146.84	146.56	146.81	147.19	151.03	150.03	146.76	146.29	146.90	146.86	
15	146.87	146.00	146.76	146.59	146.81	147.79	151.20	150.00	146.64	146.29	146.90	146.86	
16	146.88	145.95	146.66	146.56	146.82	148.29	151.37	149.99	146.64	146.23	146.91	146.86	
17	146.87	145.95	146.62	146.53	146.82	148.60	151.50	149.97	146.69	146.16	146.91	146.86	
18	146.85	145.98	146.65	146.54	146.87	148.41	151.62	149.95	146.69	146.09	146.92	146.86	
19	146.83	146.00	146.71	146.55	146.82	148.16	151.70	149.91	146.71	146.06	146.91	146.86	
20	146.82	145.97	146.71	146.60	146.93	147.98	151.83	149.81	146.70	145.99	146.91	146.86	
21	146.83	146.03	146.73	146.58	146.93	147.91	151.89	149.76	146.68	145.92	146.91	146.86	
22	146.85	146.01	146.78	146.59	146.94	147.78	151.92	149.69	146.66	145.79	146.91	146.86	
23	146.86	146.04	146.82	146.63	146.92	147.63	151.93	149.56	146.68	145.66	146.86	146.86	
24	146.87	146.03	146.84	146.67	146.83	147.83	151.91	149.44	146.65	145.39	146.86	146.86	
25	146.84	146.08	146.80	146.70	146.86	147.36	151.87	149.27	146.61	145.52	146.86	146.86	
26	146.85	146.11	146.87	146.73	146.84	148.72	151.81	149.09	146.61	145.66	146.86	146.86	
27	146.90	146.14	146.89	146.64	146.50	149.41	151.74	148.92	146.61	146.26	146.86	146.86	
28	146.84	146.16	146.92	146.65	146.41	149.61	151.64	148.75	146.61	146.46	146.86	146.86	
29	146.82	146.13	146.91	146.61	146.42	149.44	151.52	148.56	146.60	146.63		146.86	
30	146.88	146.14	146.94	146.56	146.42	149.26	151.40	148.33	146.57	146.76		146.86	
31		146.12		146.66	146.47		151.25		146.54	146.96		146.86	
Mean	146.85	146.30	146.71	146.65	146.72	147.71	150.59	149.96	146.79	146.17	146.85	146.86	
Max	146.90	146.87	146.94	146.93	146.94	149.61	151.93	151.11	148.09	146.96	146.92	146.86	151.93
Min	146.80	145.95	146.00	146.53	146.41	146.56	148.31	148.33	146.24	145.39	146.76	146.86	145.39

Annual Max Momentary Gage Height 151.93 M (MSL), at 6.00 Hours, on Oct 23, 1996

Zero Gage at Bottom Elevation 142.71 M (MSL), River Bed M (MSL)

Left Bank Elevation M (MSL)

Right Bank Elevation M (MSL), Drainage Area 13171 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.00	53.90	8.40	75.30	25.40	23.60	252.50	567.60	188.10	20.60	60.91	28.00	
2	46.00	63.10	9.20	85.90	30.80	32.40	235.00	542.00	168.10	10.60	28.00	28.00	
3	40.00	58.50	7.00	85.90	23.60	127.00	220.00	523.15	149.40	9.00	8.00	28.00	
4	17.00	58.50	13.75	34.00	23.60	44.40	208.00	509.20	130.00	8.20	10.00	28.00	
5	12.00	60.80	22.40	35.30	26.80	60.80	221.00	499.90	112.75	9.00	22.00	28.00	
6	12.00	47.00	35.30	31.60	25.40	70.00	237.00	487.50	91.20	9.00	8.00	28.00	
7	10.00	35.30	49.30	30.80	21.80	65.40	253.60	492.15	39.20	9.00	8.00	28.00	
8	10.00	30.00	53.90	27.60	23.60	75.30	269.00	485.95	21.80	9.00	8.00	28.00	
9	17.00	24.80	56.20	29.20	56.20	85.90	300.16	475.10	14.50	9.00	8.00	28.00	
10	6.00	21.80	70.00	26.00	56.20	97.20	350.60	458.50	12.00	10.20	4.20	28.00	
11	12.00	18.40	60.80	22.40	49.30	98.60	423.80	446.50	13.00	19.20	3.60	28.00	
12	17.00	16.00	65.40	28.40	58.50	99.30	484.40	429.40	43.10	21.80	3.60	28.00	
13	22.00	10.80	56.20	23.00	53.90	102.25	523.15	414.00	51.60	26.80	10.00	28.00	
14	22.00	7.40	56.20	23.60	49.30	114.25	554.80	404.20	41.80	13.25	52.00	28.00	
15	34.00	7.00	41.80	25.40	49.30	162.15	582.00	400.00	29.20	13.25	52.00	28.00	
16	40.00	6.25	30.80	23.60	51.60	206.10	609.90	398.70	29.20	11.75	60.91	28.00	
17	34.00	6.25	27.60	21.80	56.20	237.00	632.00	396.10	33.20	10.20	60.91	28.00	
18	22.00	6.70	30.00	22.40	63.10	218.00	652.40	393.50	33.20	8.80	69.80	28.00	
19	12.00	7.00	35.30	23.00	51.60	194.40	666.00	388.30	35.30	8.20	60.91	28.00	
20	10.00	6.55	35.30	26.00	85.90	178.30	689.40	375.30	34.00	6.85	60.91	28.00	
21	12.00	7.60	37.90	24.80	85.90	172.35	700.20	368.80	32.40	5.80	60.91	28.00	
22	22.00	7.20	44.40	25.40	96.50	161.30	705.60	359.70	30.80	3.85	60.91	28.00	
23	28.00	7.80	51.60	28.40	80.60	148.55	707.40	343.20	32.40	2.70	28.00	28.00	
24	34.00	7.60	56.20	31.60	75.30	165.55	703.80	329.28	30.00	0.00	28.00	28.00	
25	17.00	8.60	47.00	34.00	60.80	127.00	696.60	310.24	26.80	0.00	28.00	28.00	
26	22.00	9.20	63.10	37.90	56.20	249.20	685.80	290.08	26.80	0.00	28.00	28.00	
27	52.00	9.80	67.70	29.20	20.00	325.92	673.20	271.20	26.80	0.00	28.00	28.00	
28	56.20	10.20	80.60	30.00	16.40	349.30	655.80	252.50	26.80	0.00	28.00	28.00	
29	51.60	9.60	75.30	26.80	16.80	329.28	635.40	233.00	26.00	0.60		28.00	
30	65.40	9.80	91.20	23.60	16.80	309.12	615.00	210.00	24.20	3.60		28.00	
31		9.40		30.80	18.80		590.00		22.40	97.20		28.00	
Total	772.20	642.85	1379.85	1023.70	1426.20	4629.92	*******	*******	1576.05	357.45	889.57	868.00	41354.35 CMSDAY
Mean	25.74	20.74	45.99	33.02	46.01	154.33	507.53	401.84	50.84	11.53	31.77	28.00	113.30 CMS
Max	65.40	63.10	91.20	85.90	96.50	349.30	707.40	567.60	188.10	97.20	69.80	28.00	707.40 CMS
Min	6.00	6.25	7.00	21.80	16.40	23.60	208.00	210.00	12.00	0.00	3.60	28.00	0.00 CMS
Runoff	66.718	55.542	119.219	88.448	123.224	400.025	*******	*******	136.171	30.884	76.859	74.995	3573.016 MCM

Momentary Peak 707.40 CMS, at 151.93 M (MSL), at 6.00 Hours, on Oct 23, 1996

Runoff Yield 8.60 Liters/Second/Square KM, Momentary Peak Yield 53.709 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

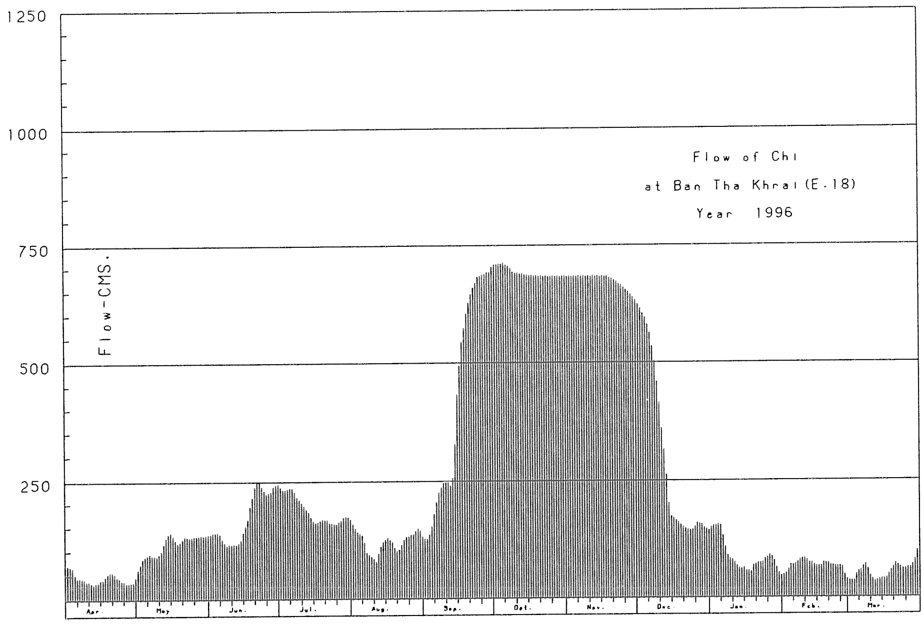
Chi River at Ban Tha Khrai, Roi Et (E.18)

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	+122.24 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.14	123.98	125.14	126.36	125.44	124.99	130.96	130.39	129.89	125.31	123.77	123.52	
2	124.11	124.19	125.16	126.31	125.30	125.00	130.98	130.40	129.81	125.36	123.80	123.49	
3	124.06	124.36	125.19	126.30	125.21	125.11	130.98	130.40	129.74	125.38	123.95	123.52	
4	123.83	124.45	125.19	126.33	125.15	125.37	130.98	130.41	129.66	125.39	124.10	123.75	
5	123.71	124.50	125.15	126.34	125.11	125.69	131.00	130.41	129.55	125.39	124.11	123.88	
6	123.69	124.53	125.00	126.35	124.88	126.00	130.97	130.43	129.40	125.07	124.13	123.90	
7	123.69	124.49	124.88	126.25	124.59	126.22	130.94	130.43	129.17	124.73	124.21	124.05	
8	123.64	124.47	124.81	126.13	124.50	126.36	130.91	130.43	128.89	124.47	124.28	124.11	
9	123.57	124.46	124.83	126.05	124.44	126.45	130.87	130.42	128.53	124.32	124.34	123.96	
10	123.54	124.52	124.83	125.99	124.35	126.48	130.84	130.41	128.12	124.31	124.34	123.72	
11	123.47	124.64	124.84	125.90	124.27	126.47	130.81	130.41	127.63	124.20	124.27	123.56	
12	123.43	124.86	124.84	125.82	124.54	126.40	130.78	130.44	127.18	124.09	124.20	123.49	
13	123.48	125.03	124.88	125.74	124.78	126.57	130.74	130.42	126.64	123.98	124.17	123.50	
14	123.52	125.15	124.98	125.62	124.89	127.31	130.70	130.41	125.95	123.98	124.11	123.56	
15	123.60	125.18	125.19	125.52	124.98	128.28	130.66	130.40	125.63	124.00	124.05	123.57	
16	123.64	125.09	125.39	125.48	125.02	128.83	130.62	130.39	125.57	123.91	124.05	123.57	
17	123.74	124.96	125.56	125.48	124.97	129.24	130.59	130.38	125.53	123.89	124.08	123.63	
18	123.86	124.88	125.90	125.54	124.89	129.50	130.56	130.35	125.47	123.87	124.18	123.76	
19	123.89	124.90	126.10	125.56	124.74	129.73	130.54	130.33	125.40	124.07	124.18	123.91	
20	123.91	125.00	126.38	125.56	124.62	129.92	130.50	130.31	125.33	124.14	124.16	124.01	
21	123.83	125.06	126.49	125.55	124.68	130.05	130.47	130.29	125.29	124.17	124.10	124.14	
22	123.74	125.07	126.50	125.48	124.81	130.17	130.45	130.26	125.24	124.19	124.07	124.09	
23	123.67	125.03	126.37	125.45	124.98	130.24	130.44	130.23	125.24	124.19	124.07	124.00	
24	123.59	125.06	126.29	125.45	125.05	130.38	130.43	130.20	125.24	124.34	124.05	123.96	
25	123.54	125.07	126.21	125.44	125.08	130.53	130.42	130.17	125.34	124.39	124.08	123.97	
26	123.49	125.09	126.22	125.49	125.12	130.66	130.41	130.13	125.44	124.45	124.02	123.99	
27	123.48	125.10	126.26	125.54	125.14	130.75	130.41	130.09	125.43	124.41	123.76	124.01	
28	123.48	125.10	126.37	125.60	125.22	130.83	130.40	130.05	125.39	124.25	123.56	124.09	
29	123.52	125.10	126.43	125.64	125.31	130.88	130.40	130.00	125.31	124.03		124.30	
30	123.71	125.10	126.43	125.61	125.23	130.92	130.39	129.95	125.25	123.81		124.59	
31		125.12		125.56	125.07		130.38		125.24	123.72		124.91	
Mean	123.69	124.82	125.59	125.79	124.91	128.18	130.66	130.31	126.82	124.38	124.08	123.89	
Max	124.14	125.18	126.50	126.36	125.44	130.92	131.00	130.44	129.89	125.39	124.34	124.91	131.00
Min	123.43	123.98	124.81	125.44	124.27	124.99	130.38	129.95	125.24	123.72	123.56	123.49	123.43

Annual Max Momentary Gage Height 131.01 M (MSL), at 6.00 Hours, on Oct 5, 1996
Zero Gage at Bottom Elevation 122.24 M (MSL), River Bed 120.07 M (MSL)
Left Bank Elevation 132.42 M (MSL)
Right Bank Elevation 132.65 M (MSL), Drainage Area 41594 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.4	62.8	138.1	237.7	159.7	127.3	709.2	684.9	625.9	150.3	50.2	37.0	
2	70.6	75.4	139.5	233.3	149.6	128.0	711.6	685.0	615.7	153.9	52.0	35.6	
3	67.6	85.6	141.7	232.4	143.1	135.9	711.6	685.0	606.7	155.4	61.0	37.0	
4	53.8	91.0	141.7	235.0	138.8	154.6	711.6	685.1	596.5	156.1	70.0	49.0	
5	46.6	94.0	138.8	235.9	135.9	180.0	714.0	685.1	582.4	156.1	70.6	56.8	
6	45.5	95.8	128.0	236.8	119.6	206.0	710.4	685.3	564.0	133.0	71.8	58.0	
7	45.5	93.4	119.6	228.0	99.4	225.4	706.8	685.3	536.4	109.1	76.6	67.0	
8	43.0	92.2	114.7	217.4	94.0	237.7	703.2	685.3	503.2	92.2	80.8	70.6	
9	39.5	91.6	116.1	210.4	90.4	245.6	694.1	685.2	461.5	83.2	84.4	61.6	
10	38.0	95.2	116.1	205.2	85.0	248.2	693.2	685.1	415.4	82.6	84.4	47.2	
11	34.8	102.8	116.8	197.6	80.2	247.4	692.3	685.1	362.0	76.0	80.2	39.0	
12	33.2	118.2	116.8	190.9	96.4	241.2	691.4	685.4	316.0	69.4	76.0	35.6	
13	35.2	130.2	119.6	184.2	112.6	256.6	690.2	685.2	263.3	62.8	74.2	36.0	
14	37.0	138.8	126.6	174.1	120.3	329.0	689.0	685.1	201.8	62.8	70.6	39.0	
15	41.0	141.0	141.7	165.7	126.6	433.4	688.2	685.0	174.9	64.0	67.0	39.5	
16	43.0	134.5	156.1	162.6	129.4	496.3	687.4	684.9	169.9	58.6	67.0	39.5	
17	48.4	125.2	169.0	162.6	125.9	544.8	686.9	684.9	166.5	57.4	68.8	42.5	
18	55.6	119.6	197.6	167.4	120.3	576.0	686.6	684.7	161.8	56.2	74.8	49.6	
19	57.4	121.0	214.8	169.0	109.8	605.4	686.4	682.2	156.8	68.2	74.8	58.6	
20	58.6	128.0	239.4	169.0	101.4	629.8	686.0	679.7	151.8	72.4	73.6	64.6	
21	53.8	132.3	249.1	168.2	105.6	646.4	685.7	677.1	148.9	74.2	70.0	72.4	
22	48.4	133.0	250.0	162.6	114.7	661.8	685.5	673.3	145.3	75.4	68.2	69.4	
23	44.5	130.2	238.6	160.4	126.6	670.7	685.4	669.4	145.3	75.4	68.2	64.0	
24	40.5	132.3	231.5	160.4	131.6	684.9	685.3	665.6	145.3	84.4	67.0	61.6	
25	38.0	133.0	224.5	159.7	133.8	686.3	685.2	661.8	152.5	87.4	68.8	62.2	
26	35.6	134.5	225.4	163.3	136.6	688.2	685.1	656.6	159.7	91.0	65.2	63.4	
27	35.2	135.2	228.9	167.4	138.1	690.5	685.1	651.5	159.0	88.6	49.6	64.6	
28	35.2	135.2	238.6	172.4	143.8	692.9	685.0	646.4	156.1	79.0	39.0	69.4	
29	37.0	135.2	243.8	175.8	150.3	694.4	685.0	640.0	150.3	65.8		82.0	
30	46.6	135.2	243.8	173.2	144.6	704.4	684.9	633.6	146.0	52.6		99.4	
31		136.6		169.0	133.0		684.9		145.3	47.2		121.7	
Total	1381.5	3609.0	5266.9	5847.6	3797.1	13069.1	21487.2	20268.8	9286.2	2740.7	1924.8	1793.8	90472.7 CMSDAY
Mean	46.0	116.4	175.6	188.6	122.5	435.6	693.1	675.6	299.6	88.4	68.7	57.9	247.9 CMS
Max	72.4	141.0	250.0	237.7	159.7	704.4	714.0	685.4	625.9	156.1	84.4	121.7	714.0 CMS
Min	33.2	62.8	114.7	159.7	80.2	127.3	684.9	633.6	145.3	47.2	39.0	35.6	33.2 CMS
Runoff	119.36	311.82	455.06	505.23	328.07	1129.17	1856.49	1751.22	802.33	236.80	166.30	154.98	7816.84 MCM

Momentary Peak 717.00 CMS, at 131.01 M (MSL), at 6.00 Hours, on Oct 5, 1996

Runoff Yield 5.96 Liters/Second/Square KM, Momentary Peak Yield 17.238 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

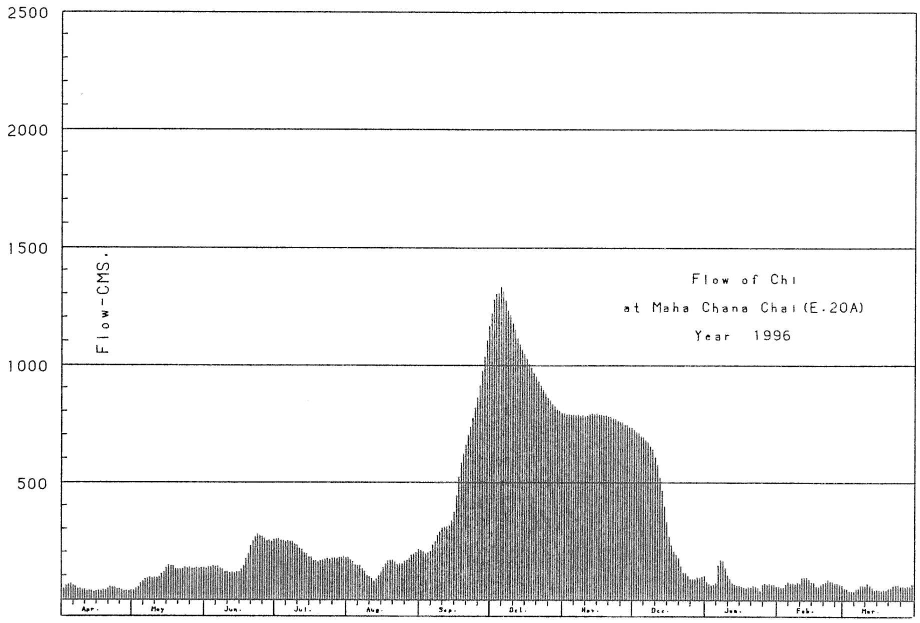
Chi River at Maha Chana Chai, Yasothon (E.20A)

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	5-time daily readings at 06.00, 09.00, 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 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 120 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	115.11	114.97	116.24	117.47	116.71	117.03	122.15	120.98	120.69	115.55	115.24	115.17	
2	115.25	115.06	116.26	117.46	116.64	116.95	122.24	120.97	120.65	115.38	115.21	115.06	
3	115.36	115.24	116.30	117.42	116.53	116.89	122.28	120.96	120.62	115.34	115.17	114.96	
4	115.38	115.41	116.32	117.38	116.41	116.90	122.28	120.97	120.57	115.33	115.41	114.89	
5	115.32	115.56	116.31	117.37	116.38	117.00	122.32	120.96	120.53	115.49	115.51	114.92	
6	115.19	115.65	116.29	117.37	116.33	117.22	122.29	120.96	120.48	116.36	115.48	115.04	
7	115.08	115.71	116.24	117.37	116.22	117.38	122.24	120.96	120.42	116.64	115.43	115.15	
8	115.04	115.73	116.15	117.34	116.05	117.59	122.17	120.95	120.34	116.57	115.43	115.28	
9	115.01	115.72	116.07	117.27	115.87	117.75	122.13	120.95	120.25	116.27	115.46	115.34	
10	114.97	115.72	116.03	117.19	115.76	117.85	122.07	120.94	120.08	115.91	115.46	115.31	
11	114.93	115.74	116.02	117.11	115.68	117.92	122.01	120.94	119.85	115.68	115.73	115.43	
12	114.98	115.80	116.01	117.04	115.58	117.90	121.94	120.98	119.53	115.50	115.79	115.34	
13	114.86	115.92	115.99	116.93	115.65	117.96	121.87	120.98	119.11	115.35	115.75	115.16	
14	114.84	116.06	116.02	116.87	115.87	118.11	121.83	120.98	118.62	115.32	115.69	115.02	
15	114.85	116.22	116.06	116.77	116.07	118.43	121.78	120.98	118.08	115.30	115.49	115.00	
16	114.89	116.35	116.16	116.71	116.24	118.94	121.73	120.97	117.57	115.28	115.46	114.99	
17	114.92	116.36	116.36	116.61	116.45	119.55	121.68	120.96	117.21	115.17	115.30	114.99	
18	114.95	116.30	116.65	116.56	116.56	119.91	121.63	120.96	116.99	115.19	115.20	114.99	
19	115.00	116.21	116.89	116.55	116.62	120.17	121.57	120.95	116.83	115.19	115.37	115.02	
20	115.10	116.15	117.18	116.57	116.59	120.36	121.52	120.94	116.73	115.22	115.43	115.09	
21	115.18	116.16	117.39	116.62	116.50	120.60	121.47	120.92	116.31	115.27	115.54	115.17	
22	115.18	116.21	117.56	116.66	116.43	120.74	121.41	120.91	116.05	115.28	115.63	115.28	
23	115.12	116.25	117.63	116.66	116.42	120.92	121.36	120.89	115.98	115.14	115.59	115.36	
24	115.07	116.25	117.60	116.65	116.48	121.08	121.30	120.87	115.87	114.97	115.53	115.33	
25	115.01	116.24	117.53	116.67	116.55	121.25	121.25	120.85	115.70	115.41	115.47	115.28	
26	114.96	116.23	117.46	116.69	116.62	121.42	121.20	120.83	115.65	115.42	115.44	115.24	
27	114.91	116.23	117.40	116.70	116.71	121.59	121.15	120.80	115.69	115.40	115.39	115.24	
28	114.88	116.23	117.38	116.71	116.80	121.76	121.10	120.78	115.75	115.41	115.31	115.25	
29	114.91	116.23	117.38	116.73	116.88	121.91	121.06	120.75	115.76	115.39		115.28	
30	114.93	116.23	117.42	116.75	116.91	122.04	121.02	120.73	115.78	115.34		115.36	
31		116.23		116.74	117.04		121.00		115.83	115.28		115.55	
Mean	115.04	115.95	116.68	116.93	116.37	119.17	121.71	120.92	118.05	115.50	115.46	115.18	
Max	115.38	116.36	117.63	117.47	117.04	122.04	122.32	120.98	120.69	116.64	115.79	115.55	122.32
Min	114.84	114.97	115.99	116.55	115.58	116.89	121.00	120.73	115.65	114.97	115.17	114.89	114.84

Annual Max Momentary Gage Height 122.32 M (MSL), at 9.00 Hours, on Oct 5, 1996
Zero Gage at Bottom Elevation 112.00 M (MSL), River Bed 112.88 M (MSL)
Left Bank Elevation 126.80 M (MSL)
Right Bank Elevation 126.83 M (MSL), Drainage Area 47818 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.6	42.9	137.6	262.7	181.0	214.3	1222.5	795.0	725.9	81.0	58.8	54.2	
2	59.5	47.8	139.4	261.6	174.0	205.5	1278.0	792.5	717.5	68.6	56.7	47.8	
3	67.2	58.8	143.0	257.2	163.7	199.0	1306.0	790.0	711.2	65.8	54.2	42.3	
4	68.6	70.7	144.8	252.8	152.9	200.0	1306.0	792.5	701.3	65.1	70.7	38.5	
5	64.4	81.8	143.9	251.7	150.2	211.0	1336.0	790.0	693.7	76.3	77.8	40.1	
6	55.4	89.0	142.1	251.7	145.7	235.2	1313.0	790.0	684.2	148.4	75.6	46.7	
7	48.9	93.8	137.6	251.7	135.8	252.8	1278.0	790.0	672.8	174.0	72.1	53.0	
8	46.7	95.4	129.5	248.4	121.0	275.9	1233.5	787.5	658.2	167.3	72.1	61.6	
9	45.1	94.6	122.6	240.7	106.6	294.0	1211.5	787.5	642.0	140.3	74.2	65.8	
10	42.9	94.6	119.4	231.9	97.8	306.0	1180.0	785.0	612.8	109.8	74.2	63.7	
11	40.7	96.2	118.6	223.1	91.4	314.4	1150.0	785.0	576.0	91.4	95.4	72.1	
12	43.4	101.0	117.8	215.4	83.4	312.0	1118.0	795.0	526.2	77.0	100.2	65.8	
13	36.8	110.6	116.2	203.3	89.0	319.2	1086.5	795.0	467.4	66.5	97.0	53.6	
14	35.7	121.8	118.6	197.0	106.6	337.8	1068.5	795.0	402.6	64.4	92.2	45.6	
15	36.2	135.8	121.8	187.0	122.6	377.9	1047.0	795.0	334.0	63.0	76.3	44.5	
16	38.5	147.5	130.4	181.0	137.6	444.4	1027.0	792.5	273.7	61.6	74.2	43.9	
17	40.1	148.4	148.4	171.0	156.5	529.0	1008.0	790.0	234.1	54.2	63.0	43.9	
18	41.7	143.0	175.0	166.4	166.4	585.6	990.5	790.0	209.9	55.4	56.0	43.9	
19	44.5	134.9	199.0	165.5	172.0	627.9	969.5	787.5	193.0	55.4	67.9	45.6	
20	50.0	129.5	230.8	167.3	169.1	661.8	952.0	785.0	183.0	57.4	72.1	49.4	
21	54.8	130.4	253.9	172.0	161.0	707.0	934.5	780.0	143.9	60.9	80.2	54.2	
22	54.8	134.9	272.6	176.0	154.7	736.8	913.5	777.5	121.0	61.6	87.4	61.6	
23	51.2	138.5	280.3	176.0	153.8	780.0	898.0	772.5	115.4	52.4	84.2	67.2	
24	48.4	138.5	277.0	175.0	159.2	820.0	880.0	767.5	106.6	42.9	79.4	65.1	
25	45.1	137.6	269.3	177.0	165.5	865.0	865.0	762.5	93.0	70.7	74.9	61.6	
26	42.3	136.7	261.6	179.0	172.0	917.0	850.0	757.5	89.0	71.4	72.8	58.8	
27	39.6	136.7	255.0	180.0	181.0	976.5	837.5	750.0	92.2	70.0	69.3	58.8	
28	37.9	136.7	252.8	181.0	190.0	1039.0	825.0	745.6	97.0	70.7	63.7	59.5	
29	39.6	136.7	252.8	183.0	198.0	1104.5	815.0	739.0	97.8	69.3		61.6	
30	40.7	136.7	257.2	185.0	201.1	1165.0	805.0	734.6	99.4	65.8		67.2	
31		136.7		184.0	215.4		800.0		103.4	61.6		81.0	
Total	1411.3	3538.2	5469.0	6355.4	4675.0	16014.5	32505.0	23396.7	11378.2	2440.2	2092.6	1718.6	110994.7 CMSDAY
Mean	47.0	114.1	182.3	205.0	150.8	533.8	1048.5	779.9	367.0	78.7	74.7	55.4	304.1 CMS
Max	68.6	148.4	280.3	262.7	215.4	1165.0	1336.0	795.0	725.9	174.0	100.2	81.0	1336.0 CMS
Min	35.7	42.9	116.2	165.5	83.4	199.0	800.0	734.6	89.0	42.9	54.2	38.5	35.7 CMS
Runoff	121.94	305.70	472.52	549.11	403.92	1383.65	2808.43	2021.47	983.08	210.83	180.80	148.49	9589.94 MCM

Momentary Peak 1336.00 CMS, at 122.32 M (MSL), at 9.00 Hours, on Oct 5, 1996

Runoff Yield 6.36 Liters/Second/Square KM, Momentary Peak Yield 27.939 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

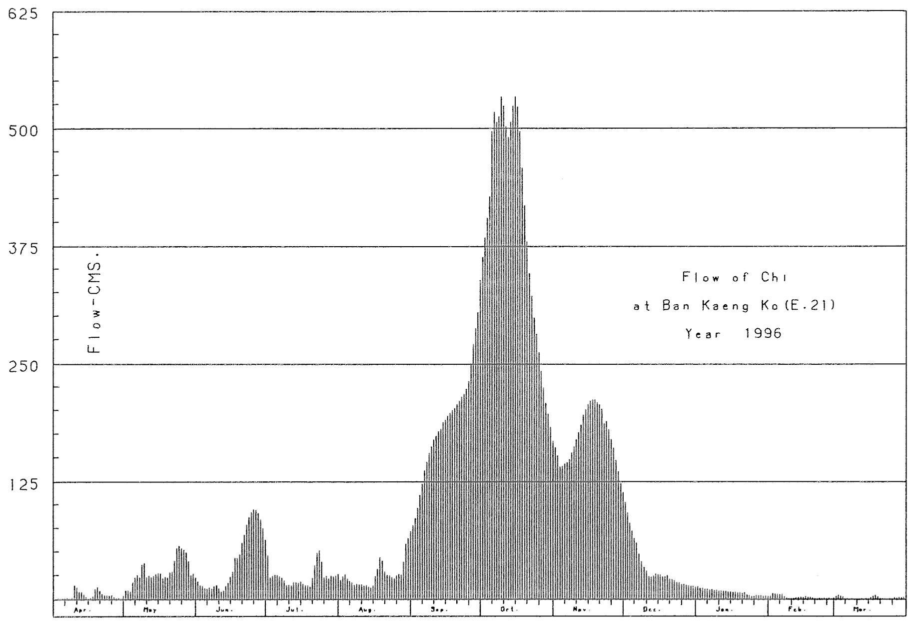
Chi River at Ban Kaeng Ko, Chaiyaphum (E.21)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.Stage-discharge relation defined by 25 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.29	1.75	1.98	2.53	2.02	3.49	8.67	6.08	4.35	1.85	1.51	1.51	
2	1.27	1.73	1.90	2.31	2.13	3.76	8.77	5.85	3.96	1.82	1.62	1.54	
3	1.26	1.71	1.86	2.26	2.17	4.15	8.86	5.55	3.59	1.81	1.62	1.51	
4	1.29	1.96	1.82	2.22	2.07	4.59	8.94	5.55	3.23	1.80	1.60	1.46	
5	1.33	2.10	1.80	2.16	2.00	5.01	9.12	5.64	2.94	1.78	1.60	1.36	
6	1.35	2.15	1.82	2.11	1.95	5.42	9.16	5.66	2.71	1.77	1.59	1.32	
7	1.35	2.31	1.80	2.09	1.90	5.70	9.14	5.77	2.56	1.76	1.49	1.28	
8	1.34	2.43	1.85	2.00	1.91	5.92	9.15	5.93	2.46	1.75	1.41	1.26	
9	1.89	2.45	1.90	1.89	1.91	6.10	9.19	6.10	2.41	1.74	1.38	1.26	
10	1.82	2.29	1.79	1.89	1.90	6.27	9.17	6.28	2.37	1.73	1.39	1.30	
11	1.67	2.15	1.68	1.88	1.88	6.39	9.13	6.46	2.32	1.72	1.40	1.32	
12	1.69	2.11	1.74	1.96	1.88	6.48	9.11	6.65	2.28	1.72	1.42	1.30	
13	1.60	2.13	1.86	1.97	1.85	6.55	9.14	6.86	2.24	1.70	1.44	1.31	
14	1.43	2.21	1.96	1.94	1.81	6.69	9.17	6.99	2.21	1.69	1.44	1.33	
15	1.32	2.20	2.12	1.99	1.88	6.77	9.19	7.10	2.18	1.68	1.45	1.33	
16	1.37	2.21	2.36	1.92	2.12	6.84	9.17	7.15	2.16	1.68	1.47	1.42	
17	1.49	2.30	2.50	1.89	2.39	6.91	9.12	7.18	2.12	1.67	1.46	1.52	
18	1.79	2.31	2.49	1.87	2.50	6.96	9.03	7.17	2.11	1.66	1.44	1.54	
19	1.83	2.31	2.55	1.85	2.47	7.02	8.91	7.13	2.16	1.65	1.42	1.47	
20	1.73	2.36	2.71	2.07	2.36	7.09	8.75	7.08	2.05	1.65	1.38	1.40	
21	1.60	2.36	3.08	2.42	2.24	7.16	8.58	6.99	2.05	1.65	1.38	1.34	
22	1.55	2.47	3.51	2.57	2.15	7.22	8.42	6.68	2.01	1.58	1.36	1.29	
23	1.52	2.63	3.80	2.60	2.09	7.28	8.26	6.72	1.97	1.52	1.36	1.25	
24	1.52	2.67	4.00	2.46	2.07	7.36	8.11	6.54	1.95	1.50	1.36	1.25	
25	1.53	2.63	4.07	2.28	2.14	7.51	7.91	6.30	1.92	1.51	1.36	1.33	
26	1.44	2.61	4.06	2.13	2.17	7.77	7.66	6.05	1.91	1.54	1.35	1.41	
27	1.36	2.58	3.96	2.07	2.22	8.00	7.38	5.75	1.90	1.55	1.35	1.41	
28	1.30	2.46	3.73	2.13	2.46	8.17	7.12	5.39	1.87	1.52	1.38	1.43	
29	1.30	2.33	3.33	2.26	2.69	8.30	6.88	5.03	1.87	1.50		1.42	
30	1.50	2.21	2.89	2.32	2.94	8.53	6.59	4.69	1.86	1.49		1.43	
31		2.11		2.19	3.21		6.24		1.85	1.48		1.50	
Mean	1.49	2.27	2.56	2.14	2.18	6.51	8.52	6.28	2.37	1.66	1.44	1.38	
Max	1.89	2.67	4.07	2.60	3.21	8.53	9.19	7.18	4.35	1.85	1.62	1.54	9.19
Min	1.26	1.71	1.68	1.85	1.81	3.49	6.24	4.69	1.85	1.48	1.35	1.25	1.25

Annual Max Momentary Gage Height 9.19 M (A.D), at 6.00 Hours, on Oct 9, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -2.05 M (A.D)
Left Bank Elevation 12.22 M (A.D)
Right Bank Elevation 12.24 M (A.D), Drainage Area 8912 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.4	10.5	19.2	47.1	20.8	79.6	364.0	162.2	104.0	14.0	4.2	4.2	
2	1.3	9.9	16.0	24.1	25.2	86.5	384.0	153.0	92.3	12.8	6.6	4.8	
3	1.3	9.3	14.4	25.0	26.8	98.0	405.6	141.8	82.1	12.4	6.6	4.2	
4	1.4	18.4	12.8	27.0	22.8	111.2	428.0	141.8	73.0	12.0	6.0	3.2	
5	1.7	24.0	12.0	26.4	20.0	123.8	496.8	144.9	65.6	11.4	6.0	1.8	
6	1.8	26.0	12.8	24.4	18.0	137.2	518.4	145.6	60.2	11.1	5.8	1.6	
7	1.8	24.1	12.0	23.6	16.0	147.0	507.6	149.8	49.2	10.8	3.8	1.4	
8	1.7	37.3	14.0	20.0	16.4	155.8	513.0	156.2	40.6	10.5	2.2	1.3	
9	15.6	39.5	16.0	15.6	16.4	163.0	534.6	163.0	35.1	10.2	1.9	1.3	
10	12.8	23.5	11.7	15.6	16.0	169.8	523.8	170.2	30.7	9.9	2.0	1.5	
11	8.1	26.0	8.4	15.2	15.2	174.6	502.2	177.7	25.2	9.6	2.0	1.6	
12	8.7	24.4	10.2	18.4	15.2	178.6	491.4	186.3	24.0	9.6	2.4	1.5	
13	6.0	25.2	14.4	18.8	14.0	181.8	507.6	196.0	26.0	9.0	2.8	1.5	
14	2.6	27.5	18.4	17.6	12.4	188.1	523.8	202.5	27.5	8.7	2.8	1.7	
15	1.6	28.0	24.8	19.6	15.2	191.6	534.6	208.0	27.2	8.4	3.0	1.7	
16	1.9	27.5	29.6	16.8	24.8	195.0	523.8	211.0	26.4	8.4	3.4	2.4	
17	3.8	23.0	45.0	15.6	32.9	198.5	496.8	212.8	24.8	8.1	3.2	4.4	
18	11.7	24.1	43.9	14.8	45.0	201.0	458.0	212.2	24.4	7.8	2.8	4.8	
19	13.2	24.1	48.5	14.0	41.7	204.0	419.0	209.8	26.4	7.5	2.4	3.4	
20	9.9	29.6	60.2	22.8	29.6	207.5	380.0	207.0	22.0	7.5	1.9	2.0	
21	6.0	29.6	69.1	36.2	26.0	211.6	346.8	202.5	22.0	7.5	1.9	1.7	
22	5.0	41.7	80.1	49.9	26.0	215.2	322.4	187.6	20.4	5.6	1.8	1.4	
23	4.4	54.4	87.5	52.0	23.6	218.8	299.8	189.4	18.8	4.4	1.8	1.3	
24	4.4	57.6	93.5	40.6	22.8	223.6	282.1	181.3	18.0	4.0	1.8	1.3	
25	4.6	54.4	95.6	24.0	25.6	232.7	262.9	171.0	16.8	4.2	1.8	1.7	
26	2.8	52.8	95.3	25.2	26.8	250.9	243.2	161.0	16.4	4.8	1.8	2.2	
27	1.8	50.6	92.3	22.8	27.0	271.0	224.8	149.0	16.0	5.0	1.8	2.2	
28	1.5	40.6	85.7	25.2	40.6	288.7	209.2	136.2	14.8	4.4	1.9	2.6	
29	1.5	26.3	75.5	25.0	59.2	305.0	197.0	124.4	14.8	4.0		2.4	
30	4.0	27.5	64.3	25.2	65.6	338.8	183.6	114.2	14.4	3.8		2.6	
31		24.4		27.6	72.5		168.6		14.0	3.6		4.0	
Total	144.3	941.8	1283.2	776.1	860.1	5748.9	12253.4	5168.4	1073.1	251.0	86.4	73.7	28660.4 CMSDAY
Mean	4.8	30.4	42.8	25.0	27.7	191.6	395.3	172.3	34.6	8.1	3.1	2.4	78.5 CMS
Max	15.6	57.6	95.6	52.0	72.5	338.8	534.6	212.8	104.0	14.0	6.6	4.8	534.6 CMS
Min	1.3	9.3	8.4	14.0	12.4	79.6	168.6	114.2	14.0	3.6	1.8	1.3	1.3 CMS
Runoff	12.47	81.37	110.87	67.06	74.31	496.71	1058.69	446.55	92.72	21.69	7.46	6.37	2476.26 MCM

Momentary Peak 534.60 CMS, at 9.19 M (A.D), at 6.00 Hours, on Oct 9, 1996

Runoff Yield 8.81 Liters/Second/Square KM, Momentary Peak Yield 59.987 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

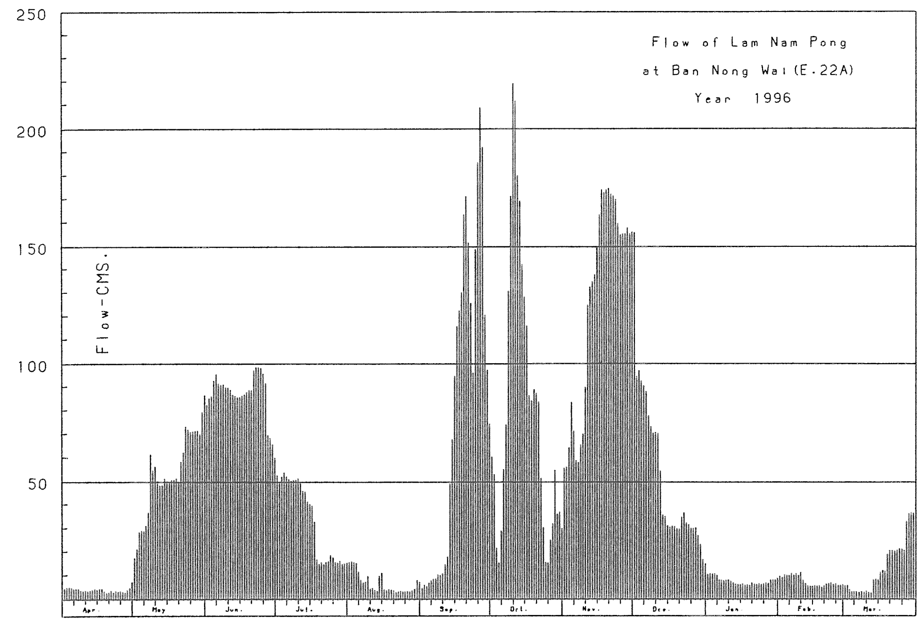
Lam Nam Phong at Ban Hin Kong Noi, Khon Kaen (E.22A)

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	Infront of automatic gage building.
Elevation	+162.808 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, 1982-1987, 1992 to date.
Rated by Float	-
Rated by Current Meter	1966-1976, 1982-1987, 1992 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Ubol Tatana Dam about 35 kilometers upstream from the gage site and the Nong Wai weir situated about 5 kilometers above gage site. Stage-discharge relation defined by 10 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.49	153.76	155.53	154.68	153.73	153.50	154.91	154.77	157.38	153.64	153.62	153.52	
2	153.50	153.82	155.61	154.60	153.74	153.53	154.69	154.78	155.86	153.64	153.61	153.53	
3	153.51	153.90	155.64	154.67	153.73	153.52	153.82	155.02	155.93	153.64	153.63	153.47	
4	153.50	153.91	155.81	154.71	153.73	153.55	153.73	155.57	155.81	153.64	153.63	153.44	
5	153.49	153.91	155.89	154.67	153.66	153.58	153.91	155.22	155.76	153.63	153.63	153.44	
6	153.48	153.98	155.78	154.63	153.58	153.59	154.75	154.86	155.69	153.59	153.64	153.43	
7	153.49	154.17	155.77	154.62	153.56	153.60	155.30	154.84	155.41	153.58	153.63	153.43	
8	153.45	154.94	155.77	154.62	153.56	153.63	156.78	155.05	155.27	153.58	153.64	153.43	
9	153.45	154.74	155.74	154.63	153.62	153.63	157.72	155.18	155.20	153.58	153.63	153.43	
10	153.45	154.79	155.73	154.64	153.49	153.64	158.79	155.74	155.20	153.59	153.65	153.44	
11	153.45	154.61	155.71	154.59	153.49	153.72	158.62	156.63	155.19	153.57	153.58	153.42	
12	153.46	154.55	155.66	154.47	153.46	153.77	157.92	156.82	154.74	153.56	153.55	153.42	
13	153.46	154.56	155.64	154.47	153.45	154.58	157.68	156.88	154.14	153.54	153.52	153.59	
14	153.49	154.64	155.63	154.32	153.62	155.12	157.06	156.95	154.11	153.54	153.52	153.59	
15	153.46	154.61	155.63	154.29	153.65	155.87	156.71	157.25	153.99	153.54	153.52	153.59	
16	153.48	154.59	155.64	154.26	153.47	156.40	156.41	157.55	153.96	153.54	153.52	153.65	
17	153.49	154.62	155.66	154.04	153.46	156.57	155.64	157.78	153.98	153.53	153.52	153.67	
18	153.44	154.63	155.68	153.75	153.47	156.76	155.59	157.76	153.97	153.53	153.52	153.66	
19	153.42	154.64	155.71	153.72	153.47	157.55	155.72	157.78	153.95	153.53	153.51	153.79	
20	153.43	154.61	155.70	153.73	153.45	157.72	155.67	157.80	153.93	153.55	153.52	153.81	
21	153.45	154.84	155.93	153.72	153.43	157.28	155.57	157.74	154.10	153.54	153.54	153.81	
22	153.43	154.96	155.97	153.73	153.44	156.65	154.65	157.73	154.17	153.54	153.55	153.81	
23	153.44	155.27	155.96	153.74	153.44	155.90	153.96	157.69	154.03	153.54	153.55	153.81	
24	153.44	155.24	155.96	153.78	153.44	157.22	153.73	157.46	153.99	153.54	153.54	153.82	
25	153.44	155.20	155.89	153.77	153.43	158.04	153.73	157.36	153.95	153.54	153.54	153.82	
26	153.43	155.21	155.79	153.73	153.44	158.56	153.86	157.36	153.94	153.55	153.53	153.81	
27	153.42	155.22	155.17	153.73	153.44	158.19	154.01	157.37	153.96	153.55	153.53	154.05	
28	153.46	155.22	155.13	153.74	153.45	156.52	154.74	157.42	153.88	153.59	153.53	154.16	
29	153.50	155.18	155.06	153.72	153.48	155.94	154.15	157.37	153.84	153.58		154.17	
30	153.56	155.45	154.89	153.72	153.58	155.30	154.17	157.38	153.75	153.59		154.16	
31		155.65		153.73	153.56		153.94		153.72	153.60		154.15	
Mean	153.47	154.69	155.66	154.17	153.53	155.45	155.42	156.64	154.61	153.57	153.57	153.69	
Max	153.56	155.65	155.97	154.71	153.74	158.56	158.79	157.80	157.38	153.64	153.65	154.17	158.79
Min	153.42	153.76	154.89	153.72	153.43	153.50	153.73	154.77	153.72	153.53	153.51	153.42	153.42

Annual Max Momentary Gage Height 158.82 M (MSL), at 17.00 Hours, on Oct 10, 1996
Zero Gage at Bottom Elevation 150.92 M (MSL), River Bed 150.85 M (MSL)
Left Bank Elevation 164.33 M (MSL)
Right Bank Elevation 163.80 M (MSL), Drainage Area 13183 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.75	17.60	82.55	52.80	15.80	5.00	60.85	55.95	156.10	11.00	10.00	5.80	
2	5.00	21.80	85.37	50.00	16.40	6.20	53.15	56.30	94.75	11.00	9.50	6.20	
3	5.40	29.00	86.50	52.45	15.80	5.80	21.80	64.70	97.37	11.00	10.50	4.25	
4	5.00	29.30	92.87	53.85	15.80	7.00	15.80	83.95	92.87	11.00	10.50	3.50	
5	4.75	29.30	95.87	52.45	12.00	8.20	29.30	71.70	91.00	10.50	10.50	3.50	
6	4.50	31.40	91.75	51.05	8.20	8.60	55.25	59.10	88.37	8.60	11.00	3.25	
7	4.75	37.10	91.38	50.70	7.40	9.00	74.50	58.40	78.35	8.20	10.50	3.25	
8	3.75	61.90	91.38	50.70	7.40	10.50	131.20	65.75	73.45	8.20	11.00	3.25	
9	3.75	54.90	90.25	51.05	10.00	10.50	171.40	70.30	71.00	8.20	10.50	3.25	
10	3.75	56.65	89.87	51.40	4.75	11.00	219.55	90.25	71.00	8.60	11.50	3.50	
11	3.75	50.35	89.13	49.70	4.75	15.20	211.90	125.20	70.65	7.80	8.20	3.00	
12	4.00	48.50	87.25	46.10	4.00	18.20	180.40	132.80	54.90	7.40	7.00	3.00	
13	4.00	48.80	86.50	46.10	3.75	49.40	169.60	135.20	36.20	6.60	5.80	8.60	
14	4.75	51.40	86.12	41.60	10.00	68.20	142.40	138.00	35.30	6.60	5.80	8.60	
15	4.00	50.35	86.12	40.70	11.50	95.12	128.40	150.25	31.70	6.60	5.80	8.60	
16	4.50	49.70	86.50	39.80	4.25	116.00	116.40	163.75	30.80	6.60	5.80	11.50	
17	4.75	50.70	87.25	33.20	4.00	122.80	86.50	174.10	31.40	6.20	5.80	12.50	
18	3.50	51.05	88.00	17.00	4.25	130.40	84.65	173.20	31.10	6.20	5.80	12.00	
19	3.00	51.40	89.13	15.20	4.25	163.75	89.50	174.10	30.50	6.20	5.40	19.40	
20	3.25	50.35	88.75	15.80	3.75	171.40	87.62	175.00	29.90	7.00	5.80	20.90	
21	3.75	58.40	97.37	15.20	3.25	151.60	83.95	172.30	35.00	6.60	6.60	20.90	
22	3.25	62.60	98.88	15.80	3.50	126.00	51.75	171.85	37.10	6.60	7.00	20.90	
23	3.50	73.45	98.50	16.40	3.50	96.25	30.80	170.05	32.90	6.60	7.00	20.90	
24	3.50	72.40	98.50	18.80	3.50	148.90	15.80	159.70	31.70	6.60	6.60	21.80	
25	3.50	71.00	95.87	18.20	3.25	185.80	15.80	155.20	30.50	6.60	6.60	21.80	
26	3.25	71.35	92.12	15.80	3.50	209.20	25.40	155.20	30.20	7.00	6.20	20.90	
27	3.00	71.70	69.95	15.80	3.50	192.55	32.30	155.65	30.80	7.00	6.20	33.50	
28	4.00	71.70	68.55	16.40	3.75	120.80	54.90	157.90	27.20	8.60	6.20	36.80	
29	5.00	70.30	66.10	15.20	4.50	97.75	36.50	155.65	23.60	8.20		37.10	
30	7.40	79.75	60.15	15.20	8.20	74.50	37.10	156.10	17.00	8.60		36.80	
31		86.87		15.80	7.40		30.20		15.20	9.00		36.50	
Total	125.05	1661.07	2618.53	1040.25	215.90	2435.62	2544.67	3827.60	1607.91	244.90	219.10	455.75	16996.35 CMSDAY
Mean	4.17	53.58	87.28	33.56	6.96	81.19	82.09	127.59	51.87	7.90	7.83	14.70	46.57 CMS
Max	7.40	86.87	98.88	53.85	16.40	209.20	219.55	175.00	156.10	11.00	11.50	37.10	219.55 CMS
Min	3.00	17.60	60.15	15.20	3.25	5.00	15.80	55.95	15.20	6.20	5.40	3.00	3.00 CMS
Runoff	10.804	143.516	226.241	89.878	18.654	210.438	219.860	330.705	138.923	21.159	18.930	39.377	1468.485 MCM

Momentary Peak 221.00 CMS, at 158.82 M (MSL), at 17.00 Hours, on Oct 10, 1996

Runoff Yield 3.53 Liters/Second/Square KM, Momentary Peak Yield 16.764 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

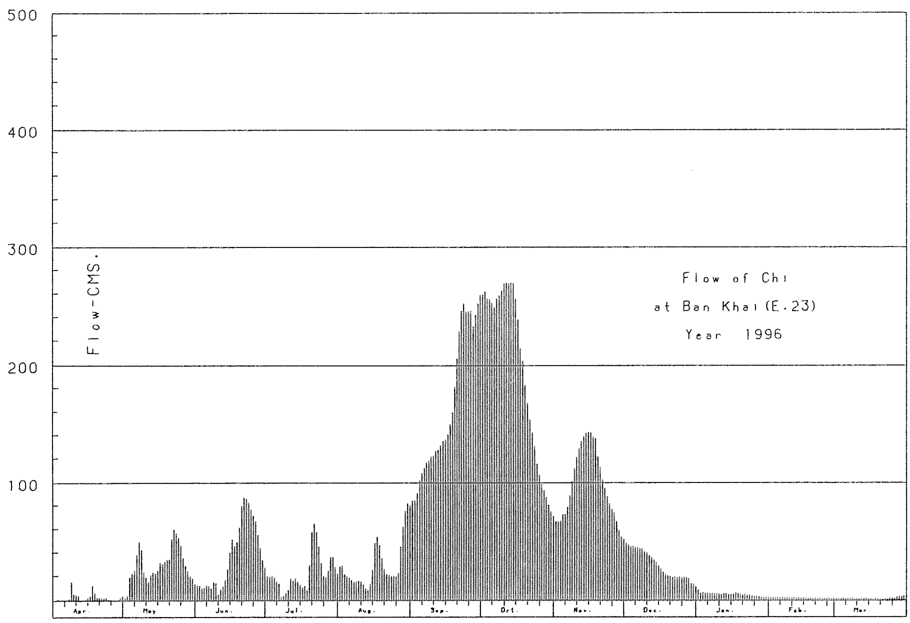
Chi River at Ban Khai, Chaiyaphum (E.23)

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	On left bank upstream side at the abutment of the bridge.
Elevation	+185.263 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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 26 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.16	177.47	177.68	177.79	178.32	180.82	182.67	180.19	179.37	177.63	177.50	177.40	
2	177.29	177.53	177.67	177.79	178.33	180.85	182.68	180.15	179.28	177.60	177.49	177.40	
3	177.29	177.76	177.65	177.80	177.92	181.04	182.66	180.20	179.24	177.60	177.49	177.40	
4	177.26	177.93	177.65	177.75	177.79	181.32	182.66	180.39	179.22	177.60	177.48	177.40	
5	177.20	178.13	177.68	177.71	177.75	181.43	182.65	180.43	179.20	177.59	177.48	177.41	
6	177.17	178.85	177.67	177.70	177.72	181.53	182.64	180.63	179.18	177.59	177.48	177.42	
7	177.36	179.41	177.65	177.50	177.71	181.61	182.66	181.00	179.15	177.59	177.48	177.44	
8	177.71	179.09	177.71	177.53	177.71	181.64	182.67	181.29	179.12	177.59	177.47	177.44	
9	177.56	178.03	177.70	177.59	177.72	181.69	182.68	181.52	179.04	177.58	177.49	177.39	
10	177.55	177.74	177.57	177.63	177.71	181.71	182.70	181.68	178.97	177.58	177.48	177.39	
11	177.54	177.71	177.63	177.73	177.69	181.76	182.70	181.80	178.85	177.58	177.48	177.41	
12	177.16	177.89	177.67	177.72	177.64	181.78	182.70	181.88	178.73	177.58	177.47	177.43	
13	177.05	178.00	177.72	177.73	177.63	181.83	182.70	181.94	178.64	177.57	177.47	177.44	
14	177.29	177.98	178.19	177.71	177.69	181.89	182.70	181.97	178.51	177.56	177.46	177.42	
15	177.44	178.10	179.00	177.68	178.12	181.90	182.66	181.98	178.35	177.56	177.45	177.41	
16	177.52	178.46	179.49	177.66	179.36	181.96	182.61	181.98	178.20	177.58	177.45	177.41	
17	177.68	178.44	179.23	177.67	179.61	182.05	182.51	181.93	178.05	177.59	177.44	177.38	
18	177.60	178.54	179.42	177.63	179.28	182.15	182.46	181.92	177.92	177.60	177.44	177.39	
19	177.50	178.64	179.97	178.36	178.73	182.32	182.33	181.70	177.86	177.57	177.43	177.40	
20	177.45	178.64	180.67	179.77	178.17	182.47	182.22	181.54	177.79	177.56	177.43	177.38	
21	177.43	179.50	180.94	180.11	177.94	182.57	182.09	181.33	177.77	177.57	177.42	177.36	
22	177.43	179.90	180.89	179.80	177.85	182.63	181.98	181.15	177.77	177.56	177.42	177.36	
23	177.42	179.72	180.80	179.21	177.81	182.65	181.82	180.98	177.76	177.55	177.42	177.37	
24	177.24	179.56	180.57	178.48	177.80	182.63	181.60	180.75	177.76	177.54	177.42	177.43	
25	177.06	179.25	180.38	177.82	177.81	182.63	181.41	180.60	177.75	177.53	177.43	177.41	
26	177.09	178.74	180.17	177.75	177.99	182.63	181.23	180.48	177.75	177.52	177.43	177.41	
27	177.11	178.35	179.69	178.11	179.20	182.59	181.11	180.19	177.74	177.52	177.43	177.51	
28	177.22	178.08	179.16	178.75	179.99	182.62	180.93	179.85	177.73	177.50	177.43	177.52	
29	177.47	177.81	178.63	178.78	180.52	182.65	180.71	179.61	177.70	177.50		177.52	
30	177.52	177.73	178.23	178.27	180.76	182.67	180.49	179.50	177.69	177.50		177.53	
31		177.69		177.93	180.68		180.34		177.67	177.50		177.53	
Mean	177.36	178.41	178.84	178.11	178.42	182.00	182.13	181.02	178.38	177.56	177.46	177.42	
Max	177.71	179.90	180.94	180.11	180.76	182.67	182.70	181.98	179.37	177.63	177.50	177.53	182.70
Min	177.05	177.47	177.57	177.50	177.63	180.82	180.34	179.50	177.67	177.50	177.42	177.36	177.05

Annual Max Momentary Gage Height 182.70 M (MSL), at 6.00 Hours, on Oct 10, 1996
Zero Gage at Bottom Elevation 174.00 M (MSL), River Bed 174.46 M (MSL)
Left Bank Elevation 185.03 M (MSL)
Right Bank Elevation 185.06 M (MSL), Drainage Area 6835 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	2.70	13.40	20.83	29.60	84.96	259.80	68.25	49.64	9.40	3.00	2.00	
2	0.97	4.20	12.60	20.83	29.78	85.80	263.20	67.25	47.66	7.00	2.90	2.00	
3	0.97	20.33	11.00	21.00	22.80	91.60	256.40	68.50	46.78	7.00	2.90	2.00	
4	0.88	22.95	11.00	20.17	20.83	103.00	256.40	73.25	46.34	7.00	2.80	2.00	
5	0.70	26.28	13.40	16.25	20.17	108.50	253.00	74.25	45.90	6.60	2.80	2.10	
6	0.64	38.88	12.60	15.00	17.50	113.50	249.60	79.64	45.46	6.60	2.80	2.20	
7	1.60	50.52	11.00	3.00	16.25	117.60	256.40	90.00	44.80	6.60	2.80	2.40	
8	16.25	43.48	16.25	4.20	16.25	119.40	259.80	101.60	44.14	6.60	2.70	2.40	
9	5.40	24.52	15.00	6.60	17.50	122.40	263.20	113.00	42.38	6.20	2.90	1.90	
10	5.00	20.00	5.80	9.40	16.25	123.70	270.00	121.80	40.98	6.20	2.80	1.90	
11	4.60	16.25	9.40	18.75	14.20	127.20	270.00	130.00	38.88	6.20	2.80	2.10	
12	0.62	22.35	12.60	17.50	10.20	128.60	270.00	135.60	36.77	6.20	2.70	2.30	
13	0.40	24.00	17.50	18.75	9.40	132.10	270.00	140.20	35.20	5.80	2.70	2.40	
14	0.97	23.70	27.33	16.25	14.20	136.30	270.00	142.60	32.92	5.40	2.60	2.20	
15	2.40	25.75	41.50	13.40	26.10	137.00	256.40	143.40	30.13	5.40	2.50	2.10	
16	3.80	32.05	52.28	11.80	49.42	141.80	239.40	143.40	27.50	6.20	2.50	2.10	
17	13.40	31.70	46.56	12.60	54.92	150.00	214.40	139.40	24.88	6.60	2.40	1.80	
18	7.00	33.45	50.74	9.40	47.66	160.50	204.40	138.60	22.80	7.00	2.40	1.90	
19	3.00	35.20	62.84	30.30	36.77	181.80	183.20	123.00	21.90	5.80	2.30	2.00	
20	2.50	35.20	80.76	58.44	26.97	206.30	168.60	114.00	20.83	5.40	2.30	1.80	
21	2.30	52.50	88.32	66.25	23.10	228.80	154.00	103.50	20.50	5.80	2.20	1.60	
22	2.30	61.30	86.92	59.10	21.75	246.20	143.40	96.00	20.50	5.40	2.20	1.60	
23	2.20	57.34	84.40	46.12	21.15	253.00	131.40	89.44	20.33	5.00	2.20	1.70	
24	0.82	53.82	77.96	32.40	21.00	246.20	117.00	83.00	20.33	4.60	2.20	2.30	
25	0.42	47.00	73.00	21.30	21.15	246.20	107.50	78.80	20.17	4.20	2.30	2.10	
26	0.48	36.95	67.75	20.17	23.85	246.20	99.20	75.50	20.17	3.80	2.30	2.10	
27	0.52	30.13	56.68	25.93	45.90	233.60	94.40	68.25	20.00	3.80	2.30	3.40	
28	0.76	25.40	45.02	37.13	63.28	242.80	88.04	60.20	18.75	3.00	2.30	3.80	
29	2.70	21.15	35.03	37.65	76.56	253.00	81.88	54.92	15.00	3.00		3.80	
30	3.80	18.75	28.02	28.73	83.28	259.80	75.75	52.50	14.20	3.00		4.20	
31		14.20		22.95	81.04		72.00		12.60	3.00		4.20	
Total	88.02	952.05	1166.66	742.20	978.83	5027.86	6098.77	2969.85	948.44	173.80	71.60	72.40	19290.48 CMSDAY
Mean	2.93	30.71	38.89	23.94	31.58	167.60	196.73	98.99	30.59	5.61	2.56	2.34	52.85 CMS
Max	16.25	61.30	88.32	66.25	83.28	259.80	270.00	143.40	49.64	9.40	3.00	4.20	270.00 CMS
Min	0.40	2.70	5.80	3.00	9.40	84.96	72.00	52.50	12.60	3.00	2.20	1.60	0.40 CMS
Runoff	7.605	82.257	100.799	64.126	84.571	434.407	526.934	256.595	81.945	15.016	6.186	6.255	1666.698 MCM

Momentary Peak 270.00 CMS, at 182.70 M (MSL), at 6.00 Hours, on Oct 10, 1996

Runoff Yield 7.73 Liters/Second/Square KM, Momentary Peak Yield 39.503 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

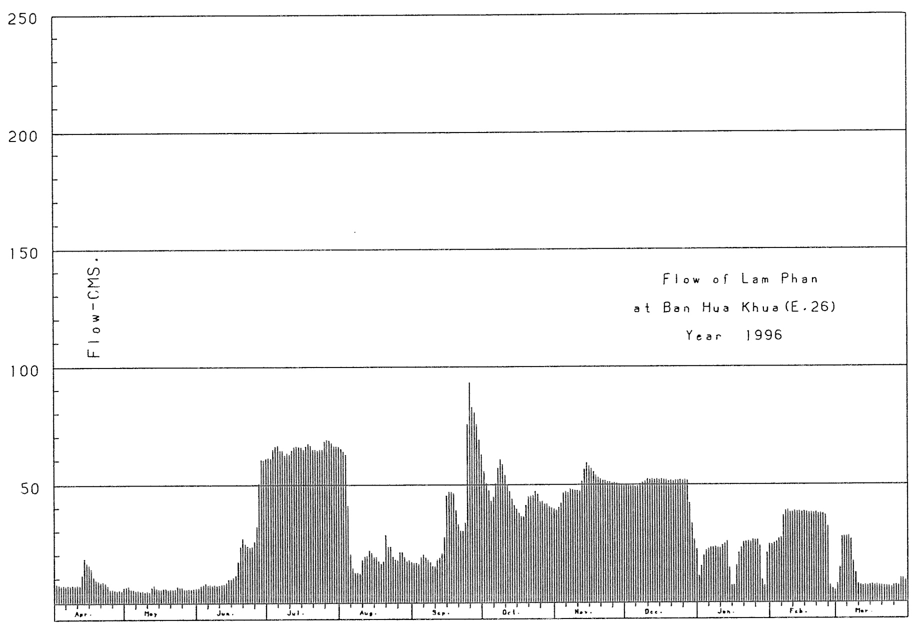
Lam Phan at Ban Hua Khua, Kalasin (E.26)

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	+134.63 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 7 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.81	134.73	134.70	136.84	136.96	135.24	136.68	136.15	136.50	134.97	135.63	134.79	
2	134.77	134.73	134.74	136.84	136.92	135.24	136.53	136.18	136.50	135.17	135.64	135.15	
3	134.76	134.66	134.79	136.94	136.89	135.23	136.43	136.25	136.49	135.41	135.68	135.75	
4	134.76	134.64	134.81	136.98	136.21	135.38	136.27	136.38	136.49	135.50	135.72	135.77	
5	134.76	134.62	134.78	137.00	135.44	135.42	136.34	136.42	136.48	135.55	135.75	135.77	
6	134.76	134.61	134.77	136.94	135.13	135.37	136.52	136.39	136.48	135.56	136.06	135.77	
7	134.76	134.60	134.77	136.93	135.04	135.31	136.72	136.45	136.52	135.58	136.14	135.71	
8	134.76	134.59	134.77	136.88	135.03	135.27	136.83	136.43	136.53	135.58	136.14	135.28	
9	134.76	134.58	134.76	136.90	135.03	135.17	136.76	136.43	136.56	135.57	136.12	135.02	
10	134.76	134.58	134.76	136.89	135.30	135.18	136.64	136.42	136.58	135.57	136.12	134.78	
11	134.77	134.58	134.79	136.93	135.39	135.32	136.51	136.42	136.58	135.61	136.13	134.76	
12	134.99	134.71	134.78	136.98	135.39	135.36	136.41	136.55	136.58	135.65	136.13	134.75	
13	135.34	134.75	134.84	136.98	135.52	135.44	136.31	136.71	136.58	135.68	136.12	134.75	
14	135.26	134.68	134.89	136.98	135.46	135.76	136.21	136.78	136.58	135.13	136.12	134.75	
15	135.20	134.64	134.91	136.97	135.38	136.35	136.16	136.75	136.58	134.76	136.12	134.75	
16	135.12	134.64	134.93	136.95	135.37	136.41	136.11	136.71	136.58	134.75	136.11	134.76	
17	134.96	134.68	134.99	136.98	135.29	136.41	136.05	136.68	136.58	135.20	136.11	134.76	
18	134.88	134.67	135.27	137.02	135.22	136.38	136.06	136.63	136.57	135.45	136.11	134.76	
19	134.87	134.65	135.60	136.99	135.29	136.15	136.21	136.61	136.56	135.58	136.11	134.75	
20	134.84	134.65	135.73	136.95	135.79	135.94	136.34	136.58	136.56	135.66	136.11	134.73	
21	134.84	134.64	135.65	136.94	135.60	135.85	136.34	136.57	136.56	135.68	136.10	134.74	
22	134.83	134.67	135.60	136.94	135.59	135.86	136.36	136.56	136.56	135.68	136.10	134.73	
23	134.74	134.72	135.59	136.94	135.39	135.97	136.41	136.55	136.57	135.68	136.10	134.71	
24	134.65	134.71	135.59	136.95	135.31	137.25	136.38	136.54	136.57	135.71	136.07	134.70	
25	134.64	134.69	135.69	137.05	135.31	137.72	136.27	136.53	136.57	135.71	135.92	134.74	
26	134.62	134.67	135.92	137.06	135.47	137.45	136.27	136.53	136.57	135.70	134.74	134.75	
27	134.62	134.66	136.52	137.06	135.49	137.40	136.24	136.53	136.57	135.61	134.66	134.75	
28	134.62	134.65	136.83	137.02	135.37	137.25	136.23	136.51	136.24	134.89	134.59	134.92	
29	134.62	134.65	136.81	136.99	135.29	137.07	136.20	136.50	135.96	134.73		134.90	
30	134.69	134.66	136.84	136.98	135.30	136.88	136.17	136.50	135.71	135.46		134.87	
31		134.67		136.98	135.27		136.16		135.53	135.63		134.86	
Mean	134.83	134.66	135.31	136.96	135.53	136.03	136.36	136.51	136.46	135.43	135.87	134.97	
Max	135.34	134.75	136.84	137.06	136.96	137.72	136.83	136.78	136.58	135.71	136.14	135.77	137.72
Min	134.62	134.58	134.70	136.84	135.03	135.17	136.05	136.15	135.53	134.73	134.59	134.70	134.58

Annual Max Momentary Gage Height 137.73 M (MSL), at 17.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 134.63 M (MSL), River Bed 132.63 M (MSL)
Left Bank Elevation 141.14 M (MSL)
Right Bank Elevation 140.40 M (MSL), Drainage Area 6585 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.20	6.95	6.50	61.40	65.60	16.80	55.80	39.50	50.00	11.40	24.75	7.85	
2	7.55	6.95	7.10	61.40	64.20	16.80	50.90	40.40	50.00	15.40	25.00	15.00	
3	7.40	5.90	7.85	64.90	63.15	16.60	47.90	42.50	49.70	20.20	26.00	27.75	
4	7.40	5.60	8.20	66.30	41.30	19.60	43.10	46.40	49.70	22.00	27.00	28.25	
5	7.40	5.30	7.70	67.00	20.80	20.40	45.20	47.60	49.40	23.00	27.75	28.25	
6	7.40	5.15	7.55	64.90	14.60	19.40	50.60	46.70	49.40	23.20	36.80	28.25	
7	7.40	5.00	7.55	64.55	12.80	18.20	57.20	48.50	50.60	23.60	39.20	26.75	
8	7.40	4.90	7.55	62.80	12.60	17.40	61.05	47.90	50.90	23.60	39.20	17.60	
9	7.40	4.80	7.40	63.50	12.60	15.40	58.60	47.90	51.80	23.40	38.60	12.40	
10	7.40	4.80	7.40	63.15	18.00	15.60	54.40	47.60	52.40	23.40	38.60	7.70	
11	7.55	4.80	7.85	64.55	19.80	18.40	50.30	47.60	52.40	24.25	38.90	7.40	
12	11.80	6.65	7.70	66.30	19.80	19.20	47.30	51.50	52.40	25.25	38.90	7.25	
13	18.80	7.25	8.80	66.30	22.40	20.80	44.30	56.85	52.40	26.00	38.60	7.25	
14	17.20	6.20	9.80	66.30	21.20	28.00	41.30	59.30	52.40	14.60	38.60	7.25	
15	16.00	5.60	10.20	65.95	19.60	45.50	39.80	58.25	52.40	7.40	38.60	7.25	
16	14.40	5.60	10.60	65.25	19.40	47.30	38.30	56.85	52.40	7.25	38.30	7.40	
17	11.20	6.20	11.80	66.30	17.80	47.30	36.50	55.80	52.40	16.00	38.30	7.40	
18	9.60	6.05	17.40	67.70	16.40	46.40	36.80	54.05	52.10	21.00	38.30	7.40	
19	9.40	5.75	24.00	66.65	17.80	39.50	41.30	53.35	51.80	23.60	38.30	7.25	
20	8.80	5.75	27.25	65.25	28.75	33.20	45.20	52.40	51.80	25.50	38.30	6.95	
21	8.80	5.60	25.25	64.90	24.00	30.50	45.20	52.10	51.80	26.00	38.00	7.10	
22	8.60	6.05	24.00	64.90	23.80	30.80	45.80	51.80	51.80	26.00	38.00	6.95	
23	7.10	6.80	23.80	64.90	19.80	34.10	47.30	51.50	52.10	26.00	38.00	6.65	
24	5.75	6.65	23.80	65.25	18.20	75.75	46.40	51.20	52.10	26.75	37.10	6.50	
25	5.60	6.35	26.25	68.75	18.20	93.80	43.10	50.90	52.10	26.75	32.60	7.10	
26	5.30	6.05	32.60	69.10	21.40	83.00	43.10	50.90	52.10	26.50	7.10	7.25	
27	5.30	5.90	50.60	69.10	21.80	81.00	42.20	50.90	52.10	24.25	5.90	7.25	
28	5.30	5.75	61.05	67.70	19.40	75.75	41.90	50.30	42.20	9.80	4.90	10.40	
29	5.30	5.75	60.35	66.65	17.80	69.45	41.00	50.00	33.80	6.95		10.00	
30	6.35	5.90	61.40	66.30	18.00	62.80	40.10	50.00	26.75	21.20		9.40	
31		6.05		66.30	17.40		39.80		22.60	24.75		9.20	
Total	263.10	182.05	599.30	2034.30	748.40	1158.75	1421.75	1510.55	1515.85	645.00	909.60	360.40	11349.05 CMSDAY
Mean	8.77	5.87	19.98	65.62	24.14	38.63	45.86	50.35	48.90	20.81	32.49	11.63	31.09 CMS
Max	18.80	7.25	61.40	69.10	65.60	93.80	61.05	59.30	52.40	26.75	39.20	28.25	93.80 CMS
Min	5.30	4.80	6.50	61.40	12.60	15.40	36.50	39.50	22.60	6.95	4.90	6.50	4.80 CMS
Runoff	22.732	15.729	51.780	175.764	64.662	100.116	122.839	130.512	130.969	55.728	78.589	31.139	980.558 MCM

Momentary Peak 94.20 CMS, at 137.73 M (MSL), at 17.00 Hours, on Sep 25, 1996

Runoff Yield 4.72 Liters/Second/Square KM, Momentary Peak Yield 14.305 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

Lam Nam Phong at Ban Pha Nok Khao, Loei (E.29)

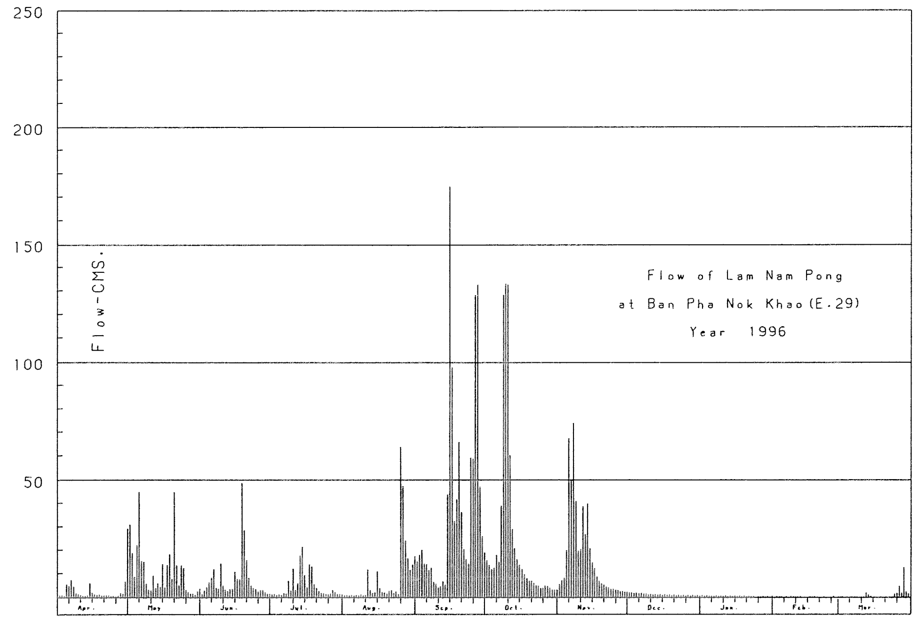
Location Lat. 16°-50′-45″ N., Long. 101°-56′-54″ E., on right bank in the vicinity of the forestry office about 400 meters from the bridge on highway, Ban Pha Nok Khao, Amphoe Phu Kradung, Loei.

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	Recordding.
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 80 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	226.01	228.76	226.12	226.09	226.03	227.43	227.48	226.60	226.21	225.97	225.87	225.83	
2	225.96	227.80	226.30	226.08	226.01	227.72	227.23	226.72	226.19	225.97	225.86	225.83	
3	225.94	226.83	226.47	226.06	226.01	227.96	227.04	226.81	226.18	225.97	225.86	225.83	
4	226.56	228.13	226.65	226.05	226.01	227.34	227.08	227.92	226.17	225.97	225.85	225.82	
5	226.52	229.66	226.82	226.05	226.01	227.29	227.75	230.89	226.16	225.96	225.85	225.80	
6	226.74	227.45	227.01	226.14	226.01	226.99	227.44	229.96	226.15	225.96	225.85	225.78	
7	226.49	227.44	226.44	226.11	226.01	227.12	229.27	231.23	226.14	225.96	225.86	225.81	
8	226.17	226.62	226.37	226.72	226.06	226.69	233.40	229.43	226.12	225.95	225.87	225.79	
9	226.07	226.34	227.35	226.33	226.02	226.60	233.51	227.89	226.10	225.95	225.85	225.78	
10	226.01	226.33	226.53	227.07	226.00	226.45	233.51	227.97	226.10	225.94	225.86	225.78	
11	225.97	226.86	226.34	226.33	227.00	226.48	230.54	229.26	226.09	225.93	225.87	225.77	
12	225.95	226.44	226.30	226.61	226.34	226.71	228.61	228.48	226.08	225.92	225.83	226.21	
13	225.95	226.61	226.36	227.72	226.15	226.55	228.00	229.34	226.07	225.92	225.82	226.00	
14	226.64	226.48	226.39	228.06	226.23	229.60	227.55	228.02	226.06	225.92	225.83	225.86	
15	226.21	227.28	226.95	226.87	226.97	234.40	227.25	227.41	226.05	225.91	225.83	225.81	
16	226.05	226.43	226.76	226.46	226.40	232.29	227.06	227.07	226.05	225.91	225.83	225.79	
17	226.07	227.24	226.77	227.28	226.24	228.84	226.90	226.85	226.05	225.91	225.83	225.77	
18	226.06	227.78	229.89	227.19	226.16	229.48	226.80	226.71	226.04	225.91	225.83	225.77	
19	226.02	226.77	228.58	226.57	226.14	230.81	226.73	226.63	226.03	225.91	225.82	225.77	
20	225.96	229.67	227.53	226.44	226.28	229.12	226.71	226.55	226.03	225.90	225.82	225.73	
21	226.03	227.26	226.80	226.27	226.34	227.99	226.63	226.49	226.02	225.90	225.83	225.76	
22	225.96	226.55	226.54	226.20	226.17	227.54	226.55	226.44	226.02	225.89	225.83	225.74	
23	225.93	227.22	226.41	226.14	226.24	227.33	226.50	226.40	226.01	225.89	225.83	225.83	
24	225.91	227.11	226.39	226.12	226.11	230.48	226.44	226.37	226.01	225.88	225.83	226.09	
25	225.89	226.35	226.27	226.10	230.72	230.47	226.44	226.35	226.00	225.88	225.83	226.18	
26	225.93	226.21	226.32	226.11	229.80	233.39	226.51	226.32	226.00	225.87	225.83	226.51	
27	226.19	226.15	226.34	226.34	228.28	233.50	226.51	226.29	226.00	225.87	225.83	226.18	
28	226.10	226.11	226.20	226.21	227.60	229.80	226.41	226.26	226.00	225.87	225.83	227.11	
29	226.71	226.07	226.14	226.12	226.99	228.39	226.36	226.25	225.99	225.87		226.25	
30	228.63	226.29	226.10	226.08	227.29	227.84	226.33	226.23	225.98	225.87		226.10	
31		226.38		226.06	227.66		226.33		225.98	225.87		226.17	
Mean	226.22	227.05	226.71	226.45	226.69	228.75	227.77	227.50	226.07	225.92	225.84	225.95	
Max	228.63	229.67	229.89	228.06	230.72	234.40	233.51	231.23	226.21	225.97	225.87	227.11	234.40
Min	225.89	226.07	226.10	226.05	226.00	226.45	226.33	226.23	225.98	225.87	225.82	225.73	225.73

Annual Max Momentary Gage Height 234.58 M (MSL), at 18.00 Hours, on Sep 15, 1996
Zero Gage at Bottom Elevation 225.00 M (MSL), River Bed 225.51 M (MSL)
Left Bank Elevation 236.83 M (MSL)
Right Bank Elevation 238.10 M (MSL), Drainage Area 945 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	31.40	1.74	1.55	1.25	15.44	15.84	6.00	2.37	1.01	0.71	0.59	
2	0.98	19.00	3.00	1.50	1.15	18.20	13.84	7.30	2.23	1.01	0.68	0.59	
3	0.92	8.95	4.70	1.40	1.15	20.60	12.32	8.65	2.16	1.01	0.68	0.59	
4	5.60	22.69	6.50	1.35	1.15	14.72	12.64	20.20	2.09	1.01	0.65	0.56	
5	5.20	45.05	8.80	1.35	1.15	14.32	18.50	67.80	2.02	0.98	0.65	0.50	
6	7.60	15.60	12.08	1.88	1.15	11.80	15.52	50.30	1.95	0.98	0.65	0.44	
7	4.90	15.52	4.40	1.67	1.15	12.96	39.05	74.60	1.88	0.98	0.68	0.53	
8	2.09	6.20	3.70	7.30	1.40	6.90	129.00	41.45	1.74	0.95	0.71	0.47	
9	1.45	3.40	14.80	3.30	1.20	6.00	133.40	19.90	1.60	0.95	0.65	0.44	
10	1.15	3.30	5.30	12.56	1.10	4.50	133.40	20.70	1.60	0.92	0.68	0.44	
11	1.01	9.40	3.40	3.30	12.00	4.80	60.80	38.90	1.55	0.89	0.71	0.41	
12	0.95	4.40	3.00	6.10	3.40	7.15	29.15	27.24	1.50	0.86	0.59	2.37	
13	0.95	6.10	3.60	18.20	1.95	5.50	21.00	40.10	1.45	0.86	0.56	1.10	
14	6.40	4.80	3.90	21.78	2.51	44.00	16.50	21.26	1.40	0.86	0.59	0.68	
15	2.37	14.24	11.00	9.55	11.40	175.00	14.00	15.28	1.35	0.83	0.59	0.53	
16	1.35	4.30	7.90	4.60	4.00	98.25	12.48	12.56	1.35	0.83	0.59	0.47	
17	1.45	13.92	8.05	14.24	2.58	32.60	10.00	9.25	1.35	0.83	0.59	0.41	
18	1.40	18.80	49.07	13.52	2.02	42.20	8.50	7.15	1.30	0.83	0.59	0.41	
19	1.20	8.05	28.70	5.70	1.88	66.20	7.45	6.30	1.25	0.83	0.56	0.41	
20	0.98	45.22	16.30	4.40	2.86	36.80	7.15	5.50	1.25	0.80	0.56	0.29	
21	1.25	14.08	8.50	2.79	3.40	20.90	6.30	4.90	1.20	0.80	0.59	0.38	
22	0.98	5.50	5.40	2.30	2.09	16.40	5.50	4.40	1.20	0.77	0.59	0.32	
23	0.89	13.76	4.10	1.88	2.58	14.64	5.00	4.00	1.15	0.77	0.59	0.59	
24	0.83	12.88	3.90	1.74	1.67	59.60	4.40	3.70	1.15	0.74	0.59	1.55	
25	0.77	3.50	2.79	1.60	64.40	59.40	4.40	3.50	1.10	0.74	0.59	2.16	
26	0.89	2.37	3.20	1.67	47.50	128.65	5.10	3.20	1.10	0.71	0.59	5.10	
27	2.23	1.95	3.40	3.40	24.64	133.00	5.10	2.93	1.10	0.71	0.59	2.16	
28	1.60	1.67	2.30	2.37	17.00	47.50	4.10	2.72	1.10	0.71	0.59	12.88	
29	7.15	1.45	1.88	1.74	11.80	26.07	3.60	2.65	1.07	0.71		2.65	
30	29.45	2.93	1.60	1.50	14.32	19.40	3.30	2.51	1.04	0.71		1.60	
31		3.80		1.40	17.60		3.30		1.04	0.71		2.09	
Total	95.14	364.23	237.01	157.64	263.45	1163.50	760.64	534.95	45.64	26.30	17.39	43.71	3709.60 CMSDAY
Mean	3.17	11.75	7.90	5.09	8.50	38.78	24.54	17.83	1.47	0.85	0.62	1.41	10.16 CMS
Max	29.45	45.22	49.07	21.78	64.40	175.00	133.40	74.60	2.37	1.01	0.71	12.88	175.00 CMS
Min	0.77	1.45	1.60	1.35	1.10	4.50	3.30	2.51	1.04	0.71	0.56	0.29	0.29 CMS
Runoff	8.220	31.469	20.478	13.620	22.762	100.526	65.719	46.220	3.943	2.272	1.502	3.777	320.509 MCM

Momentary Peak 187.00 CMS, at 234.58 M (MSL), at 18.00 Hours, on Sep 15, 1996

Runoff Yield 10.75 Liters/Second/Square KM, Momentary Peak Yield 197.884 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

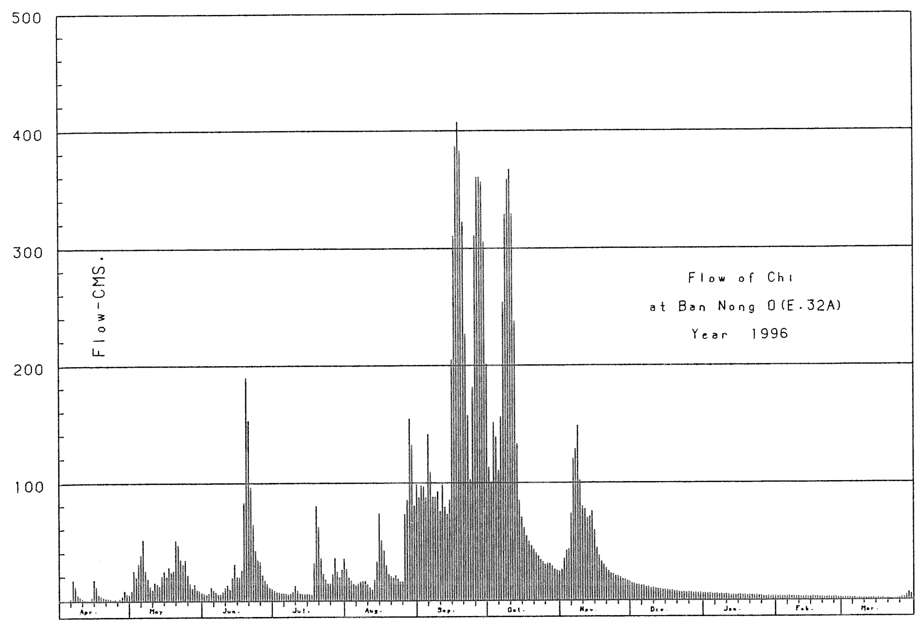
Chi River at Ban Nong O, Chaiyaphum (E.32A)

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	2,905 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	In the vicinity of sling pole.
Elevation	+210.661 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.53	199.21	199.02	199.20	200.18	202.90	203.71	200.15	199.57	199.01	198.79	198.67	
2	198.50	200.09	198.96	199.13	199.83	203.23	203.29	200.60	199.54	199.00	198.78	198.67	
3	198.51	199.85	199.02	199.09	199.68	203.22	204.69	200.96	199.52	198.99	198.78	198.67	
4	198.55	200.39	199.40	199.07	199.56	202.88	204.39	201.00	199.49	198.98	198.78	198.66	
5	198.64	200.78	199.24	199.04	199.49	204.45	203.62	202.36	199.47	198.97	198.77	198.66	
6	199.73	201.42	199.08	198.99	199.55	203.58	204.81	203.93	199.45	198.95	198.77	198.64	
7	199.42	200.09	198.97	198.96	199.64	202.91	206.80	204.13	199.41	198.93	198.77	198.63	
8	198.94	199.78	198.95	198.98	199.65	202.89	208.08	204.63	199.38	198.93	198.76	198.63	
9	198.75	199.43	199.13	199.16	199.67	203.08	208.53	203.37	199.34	198.92	198.75	198.63	
10	198.67	199.28	199.37	199.46	199.50	202.43	208.67	202.58	199.34	198.92	198.75	198.63	
11	198.62	199.58	199.48	199.19	199.38	203.25	208.08	202.49	199.33	198.91	198.75	198.63	
12	198.60	199.55	199.29	199.05	199.29	202.55	206.50	202.18	199.28	198.89	198.74	198.63	
13	198.58	199.43	199.82	198.98	199.70	202.33	204.24	202.26	199.26	198.88	198.75	198.64	
14	198.76	199.87	200.37	198.99	200.51	202.80	202.78	202.40	199.24	198.88	198.74	198.64	
15	199.73	200.09	199.84	199.01	202.36	205.89	202.22	201.77	199.22	198.88	198.74	198.63	
16	199.41	199.87	199.81	198.95	201.38	207.78	201.84	201.08	199.21	198.88	198.74	198.63	
17	198.97	200.23	200.13	198.93	200.97	208.95	201.56	200.73	199.20	198.87	198.74	198.63	
18	198.82	200.05	202.72	200.41	200.33	209.24	201.33	200.51	199.18	198.85	198.74	198.62	
19	198.75	200.08	205.58	202.61	199.97	208.89	201.17	200.34	199.16	198.85	198.73	198.60	
20	198.68	201.38	204.75	201.87	199.86	207.98	200.99	200.21	199.12	198.85	198.72	198.59	
21	198.65	201.21	203.19	200.65	199.81	206.30	200.84	200.10	199.12	198.85	198.72	198.59	
22	198.63	200.59	201.99	200.00	199.90	204.85	200.72	200.00	199.08	198.85	198.72	198.59	
23	198.62	200.37	200.95	199.71	199.77	203.40	200.58	199.94	199.07	198.84	198.72	198.59	
24	198.61	200.54	200.57	199.57	199.62	205.39	200.46	199.89	199.07	198.84	198.72	198.59	
25	198.61	199.94	200.47	199.54	199.64	207.79	200.38	199.85	199.07	198.80	198.71	198.64	
26	198.63	199.56	199.94	199.97	202.30	208.56	200.38	199.81	199.06	198.78	198.70	198.70	
27	198.84	199.36	199.70	200.66	202.82	208.57	200.42	199.75	199.03	198.78	198.69	198.71	
28	199.23	199.51	199.54	200.06	204.78	208.50	200.28	199.70	199.03	198.78	198.67	198.83	
29	198.97	199.27	199.39	199.85	204.21	207.69	200.17	199.67	199.03	198.77		199.06	
30	198.92	199.18	199.29	200.14	202.59	205.82	200.09	199.61	199.03	198.77		198.90	
31		199.10		200.60	203.26		200.06		199.02	198.78		198.79	
Mean	198.83	199.97	200.27	199.67	200.62	205.27	202.96	201.20	199.24	198.88	198.74	198.67	
Max	199.73	201.42	205.58	202.61	204.78	209.24	208.67	204.63	199.57	199.01	198.79	199.06	209.24
Min	198.50	199.10	198.95	198.93	199.29	202.33	200.06	199.61	199.02	198.77	198.67	198.59	198.50

Annual Max Momentary Gage Height 209.30 M (MSL), at 5.00 Hours, on Sep 18, 1996
Zero Gage at Bottom Elevation 198.00 M (MSL), River Bed 197.56 M (MSL)
Left Bank Elevation 210.78 M (MSL)
Right Bank Elevation 210.80 M (MSL), Drainage Area 2905 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.4	8.7	6.2	8.5	27.1	88.2	113.7	26.5	14.9	6.1	3.5	2.0	
2	0.0	25.3	5.5	7.6	20.1	97.8	99.7	35.5	14.3	6.0	3.4	2.0	
3	0.1	20.5	6.2	7.1	17.1	97.5	151.6	42.7	13.9	5.9	3.4	2.0	
4	0.6	31.3	11.5	6.8	14.7	87.7	139.6	43.5	13.3	5.8	3.4	1.9	
5	1.7	39.1	9.1	6.5	13.3	142.0	110.7	74.7	12.9	5.6	3.2	1.9	
6	18.1	52.2	7.0	5.9	14.5	109.3	156.4	121.3	12.5	5.4	3.2	1.7	
7	11.9	25.3	5.6	5.5	16.3	88.5	254.5	129.2	11.7	5.2	3.2	1.6	
8	5.3	19.1	5.4	5.8	16.5	88.0	329.7	149.2	11.2	5.2	3.1	1.6	
9	3.0	12.1	7.6	8.0	16.9	93.2	359.0	102.3	10.6	5.0	3.0	1.6	
10	2.0	9.7	11.1	12.7	13.5	76.4	368.1	80.2	10.6	5.0	3.0	1.6	
11	1.4	15.1	13.1	8.4	11.2	98.4	329.7	78.0	10.5	4.9	3.0	1.6	
12	1.2	14.5	9.8	6.6	9.8	79.5	238.0	70.2	9.7	4.7	2.9	1.6	
13	1.0	12.1	19.9	5.8	17.5	74.0	133.6	72.2	9.4	4.6	3.0	1.7	
14	3.1	20.9	30.9	5.9	33.7	85.7	85.2	75.7	9.1	4.6	2.9	1.7	
15	18.1	25.3	20.3	6.1	74.7	205.5	71.2	60.2	8.8	4.6	2.9	1.6	
16	11.7	20.9	19.7	5.4	51.3	310.8	61.8	45.1	8.7	4.6	2.9	1.6	
17	5.6	28.1	26.1	5.2	42.9	387.5	55.4	38.1	8.5	4.4	2.9	1.6	
18	3.8	24.5	83.7	31.7	30.1	408.4	50.2	33.7	8.2	4.2	2.9	1.4	
19	3.0	25.1	190.1	81.0	22.9	383.3	46.9	30.3	8.0	4.2	2.8	1.2	
20	2.2	51.3	154.0	62.5	20.7	323.2	43.3	27.7	7.5	4.2	2.6	1.1	
21	1.8	47.7	96.6	36.5	19.7	227.0	40.3	25.5	7.5	4.2	2.6	1.1	
22	1.6	35.3	65.5	23.5	21.5	158.0	37.9	23.5	7.0	4.2	2.6	1.1	
23	1.4	30.9	42.5	17.7	18.9	103.3	35.1	22.3	6.8	4.1	2.6	1.1	
24	1.3	34.3	34.9	14.9	15.9	181.5	32.7	21.3	6.8	4.1	2.6	1.1	
25	1.3	22.3	32.9	14.3	16.3	311.4	31.1	20.5	6.8	3.6	2.5	1.7	
26	1.6	14.7	22.3	22.9	73.2	360.9	31.1	19.7	6.7	3.4	2.4	2.4	
27	4.1	10.9	17.5	36.7	86.2	361.6	31.9	18.5	6.4	3.4	2.3	2.5	
28	8.9	13.7	14.3	24.7	155.2	357.0	29.1	17.5	6.4	3.4	2.0	4.0	
29	5.6	9.6	11.4	20.5	132.4	305.4	26.9	16.9	6.4	3.2		6.7	
30	5.0	8.2	9.8	26.3	80.4	202.0	25.3	15.7	6.4	3.2		4.8	
31		7.2		35.5	98.8		24.7		6.2	3.4		3.5	
Total	126.8	715.9	990.5	566.5	1203.3	5893.0	3544.4	1537.7	287.7	140.4	80.8	63.0	15150.0 CMSDAY
Mean	4.2	23.1	33.0	18.3	38.8	196.4	114.3	51.3	9.3	4.5	2.9	2.0	41.5 CMS
Max	18.1	52.2	190.1	81.0	155.2	408.4	368.1	149.2	14.9	6.1	3.5	6.7	408.4 CMS
Min	0.0	7.2	5.4	5.2	9.8	74.0	24.7	15.7	6.2	3.2	2.0	1.1	0.0 CMS
Runoff	10.96	61.85	85.58	48.95	103.97	509.16	306.24	132.86	24.86	12.13	6.98	5.44	1308.96 MCM

Momentary Peak 412.75 CMS, at 209.30 M (MSL), at 5.00 Hours, on Sep 18, 1996
Runoff Yield 14.29 Liters/Second/Square KM, Momentary Peak Yield 142.083 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

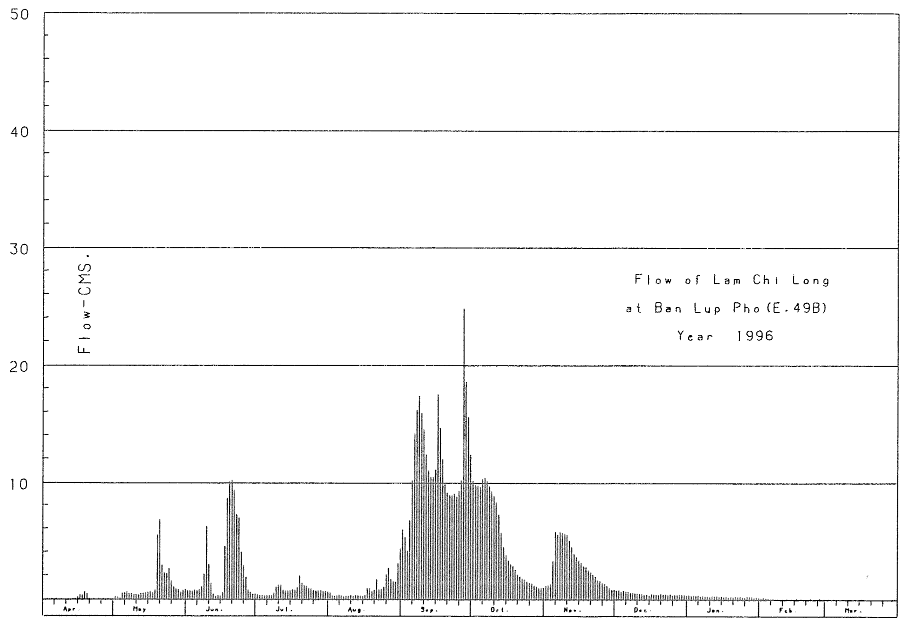
Lam Chi Long at Ban Lup Pho, Chaiyaphum (E.49B)

Location	Lat. 15°-47′-28″ N., Long. 101°-52′-20″ E., on right bank at the bridge on road, Ban Lup Pho, Amphoe Ban Khwao, Chaiyaphum.
Drainage Area	331 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+196.18 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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by the local weir about 1.8 kilometers downstream from the gage site. Stage-discharge relation defined by 18 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	197.00	197.05	197.16	197.08	197.12	197.58	198.02	197.22	197.17	197.08	197.02	196.90	
2	197.00	197.03	197.15	197.08	197.07	197.54	197.98	197.22	197.16	197.07	197.02	196.90	
3	197.00	197.02	197.15	197.07	197.05	197.46	197.97	197.23	197.15	197.07	197.02	196.90	
4	197.00	197.11	197.16	197.07	197.07	197.63	197.96	197.39	197.15	197.07	197.01	196.90	
5	197.00	197.12	197.16	197.07	197.08	198.03	198.04	197.57	197.15	197.07	197.01	196.89	
6	197.00	197.13	197.17	197.06	197.05	198.39	198.06	197.55	197.14	197.06	197.01	196.89	
7	197.00	197.11	197.21	197.07	197.05	198.51	198.02	197.57	197.13	197.06	197.00	196.88	
8	196.98	197.10	197.30	197.11	197.05	198.57	197.97	197.56	197.12	197.06	197.00	196.87	
9	196.92	197.09	197.60	197.21	197.06	198.50	197.91	197.56	197.12	197.05	197.00	196.88	
10	196.82	197.08	197.37	197.22	197.06	198.41	197.86	197.55	197.11	197.05	196.99	196.87	
11	196.81	197.08	197.23	197.22	197.06	198.25	197.76	197.52	197.11	197.06	196.99	196.83	
12	196.88	197.10	197.09	197.17	197.07	198.13	197.66	197.48	197.10	197.06	196.99	196.82	
13	196.98	197.11	197.05	197.15	197.07	198.06	197.56	197.44	197.09	197.05	196.98	196.82	
14	197.00	197.12	197.06	197.16	197.06	198.06	197.48	197.42	197.08	197.05	196.98	196.84	
15	197.04	197.12	197.06	197.16	197.06	198.13	197.43	197.40	197.08	197.05	196.98	196.86	
16	197.08	197.13	197.13	197.16	197.07	198.58	197.40	197.38	197.10	197.05	196.97	196.86	
17	197.08	197.12	197.48	197.17	197.20	198.42	197.37	197.36	197.10	197.05	196.97	196.86	
18	197.13	197.16	197.83	197.20	197.19	198.22	197.36	197.35	197.09	197.04	196.96	196.88	
19	197.11	197.55	198.01	197.29	197.15	197.99	197.33	197.33	197.09	197.04	196.96	196.86	
20	196.98	197.63	198.03	197.23	197.16	197.89	197.30	197.31	197.10	197.05	196.95	196.85	
21	196.97	197.36	197.92	197.22	197.26	197.87	197.28	197.30	197.10	197.05	196.95	196.84	
22	196.96	197.31	197.66	197.21	197.18	197.86	197.27	197.28	197.09	197.05	196.94	196.83	
23	196.95	197.30	197.64	197.20	197.18	197.88	197.26	197.26	197.09	197.04	196.94	196.82	
24	196.92	197.34	197.45	197.18	197.21	197.85	197.25	197.25	197.09	197.04	196.93	196.82	
25	196.91	197.25	197.36	197.16	197.30	197.92	197.24	197.24	197.08	197.04	196.93	196.82	
26	196.91	197.21	197.28	197.16	197.34	198.03	197.23	197.23	197.08	197.05	196.92	196.82	
27	196.91	197.19	197.17	197.16	197.26	198.88	197.22	197.22	197.09	197.05	196.92	196.81	
28	196.91	197.17	197.12	197.15	197.25	198.63	197.21	197.20	197.09	197.04	196.91	196.88	
29	196.90	197.13	197.10	197.15	197.24	198.48	197.20	197.18	197.09	197.03		196.93	
30	196.89	197.16	197.09	197.14	197.38	198.25	197.20	197.17	197.08	197.03		196.97	
31		197.17		197.14	197.47		197.20		197.08	197.03		197.01	
Mean	196.97	197.18	197.34	197.16	197.16	198.13	197.55	197.36	197.11	197.05	196.97	196.87	
Max	197.13	197.63	198.03	197.29	197.47	198.88	198.06	197.57	197.17	197.08	197.02	197.01	198.88
Min	196.81	197.02	197.05	197.06	197.05	197.46	197.20	197.17	197.08	197.03	196.91	196.81	196.81

Annual Max Momentary Gage Height 198.98 M (MSL), at 12.00 Hours, on Sep 27, 1996
Zero Gage at Bottom Elevation 196.18 M (MSL), River Bed 196.70 M (MSL)
Left Bank Elevation 200.26 M (MSL)
Right Bank Elevation 200.27 M (MSL), Drainage Area 331 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.30	0.80	0.42	0.60	6.00	10.16	1.24	0.85	0.42	0.18	0.10	
2	0.10	0.22	0.75	0.42	0.38	5.40	9.84	1.24	0.80	0.38	0.18	0.10	
3	0.10	0.18	0.75	0.38	0.30	4.24	9.76	1.36	0.75	0.38	0.18	0.10	
4	0.10	0.55	0.80	0.38	0.38	6.81	9.68	3.28	0.75	0.38	0.14	0.10	
5	0.10	0.60	0.80	0.38	0.42	10.24	10.32	5.85	0.75	0.38	0.14	0.09	
6	0.10	0.65	0.85	0.34	0.30	14.26	10.48	5.55	0.70	0.34	0.14	0.09	
7	0.10	0.55	1.12	0.38	0.30	16.20	10.16	5.85	0.65	0.34	0.10	0.08	
8	0.10	0.50	2.20	0.55	0.30	17.40	9.76	5.70	0.60	0.34	0.10	0.07	
9	0.10	0.46	6.30	1.12	0.34	16.00	9.28	5.70	0.60	0.30	0.10	0.08	
10	0.02	0.42	3.04	1.24	0.34	14.56	8.92	5.55	0.55	0.30	0.10	0.07	
11	0.01	0.42	1.36	1.24	0.34	12.40	8.30	5.10	0.55	0.34	0.10	0.03	
12	0.08	0.50	0.46	0.85	0.38	11.10	7.32	4.52	0.50	0.34	0.10	0.02	
13	0.10	0.55	0.30	0.75	0.38	10.48	5.70	3.96	0.46	0.30	0.10	0.02	
14	0.10	0.60	0.34	0.80	0.34	10.48	4.52	3.68	0.42	0.30	0.10	0.04	
15	0.26	0.60	0.34	0.80	0.34	11.10	3.82	3.40	0.42	0.30	0.10	0.06	
16	0.42	0.65	0.65	0.80	0.38	17.60	3.40	3.16	0.50	0.30	0.10	0.06	
17	0.42	0.60	4.52	0.85	1.00	14.72	3.04	2.92	0.50	0.30	0.10	0.06	
18	0.65	0.80	8.71	1.00	0.95	12.04	2.92	2.80	0.46	0.26	0.10	0.08	
19	0.55	5.55	10.08	2.08	0.75	9.92	2.56	2.56	0.46	0.26	0.10	0.06	
20	0.10	6.81	10.24	1.36	0.80	9.13	2.20	2.32	0.50	0.30	0.10	0.05	
21	0.10	2.92	9.36	1.24	1.72	8.99	1.96	2.20	0.50	0.30	0.10	0.04	
22	0.10	2.32	7.32	1.12	0.90	8.92	1.84	1.96	0.46	0.30	0.10	0.03	
23	0.10	2.20	6.98	1.00	0.90	9.06	1.72	1.72	0.46	0.26	0.10	0.02	
24	0.10	2.68	4.10	0.90	1.12	8.85	1.60	1.60	0.46	0.26	0.10	0.02	
25	0.10	1.60	2.92	0.80	2.20	9.36	1.48	1.48	0.42	0.26	0.10	0.02	
26	0.10	1.12	1.96	0.80	2.68	10.24	1.36	1.36	0.42	0.30	0.10	0.02	
27	0.10	0.95	0.85	0.80	1.72	24.92	1.24	1.24	0.46	0.30	0.10	0.01	
28	0.10	0.85	0.60	0.75	1.60	18.60	1.12	1.00	0.46	0.26	0.10	0.08	
29	0.10	0.65	0.50	0.75	1.48	15.68	1.00	0.90	0.46	0.22		0.10	
30	0.09	0.80	0.46	0.70	3.16	12.40	1.00	0.85	0.42	0.22		0.10	
31		0.85		0.70	4.38		1.00		0.42	0.22		0.14	
Total	4.60	38.45	89.46	25.70	31.18	357.10	157.46	90.05	16.71	9.46	3.16	1.94	825.27 CMSDAY
Mean	0.15	1.24	2.98	0.83	1.01	11.90	5.08	3.00	0.54	0.31	0.11	0.06	2.26 CMS
Max	0.65	6.81	10.24	2.08	4.38	24.92	10.48	5.85	0.85	0.42	0.18	0.14	24.92 CMS
Min	0.01	0.18	0.30	0.34	0.30	4.24	1.00	0.85	0.42	0.22	0.10	0.01	0.01 CMS
Runoff	0.397	3.322	7.729	2.220	2.694	30.853	13.605	7.780	1.444	0.817	0.273	0.168	71.303 MCM

Momentary Peak 28.30 CMS, at 198.98 M (MSL), at 12.00 Hours, on Sep 27, 1996

Runoff Yield 6.83 Liters/Second/Square KM, Momentary Peak Yield 85.498 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

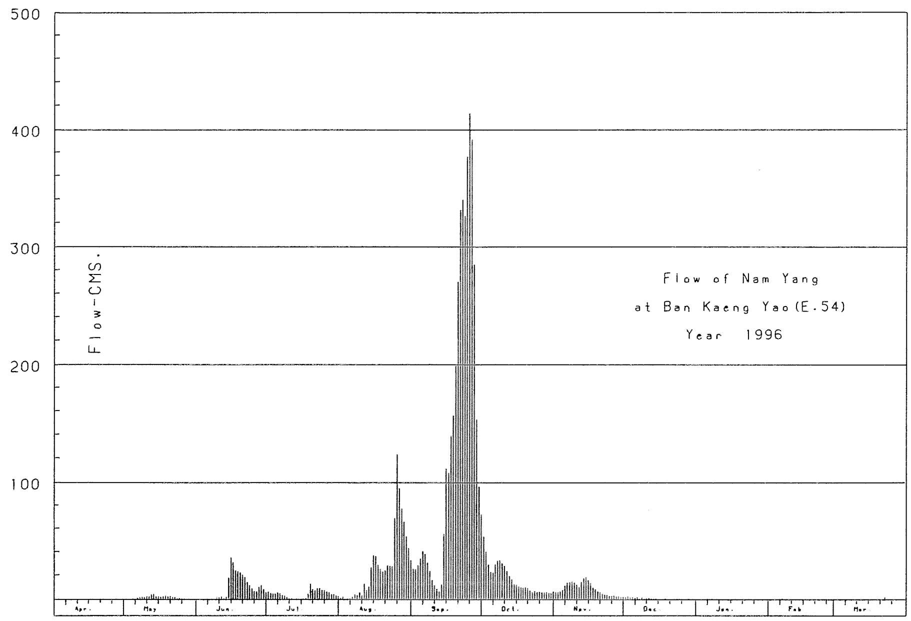
Nam Yang at Ban Kaeng Yao, Kalasin (E.54)

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	Water-stage recorder.
Zero Gage at Bottom	+138.34 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at abutment of the bridge.
Elevation	+149.988 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 - 1977, 1983 to date.
Rated by Float	-
Rated by Current Meter	1969 - 1977, 1983 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 60 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.13	139.14	139.07	139.46	139.05	140.28	141.11	139.66	139.39	139.20	139.21	139.18	
2	139.11	139.18	139.04	139.42	139.09	140.25	140.73	139.64	139.40	139.21	139.26	139.10	
3	139.09	139.23	139.04	139.36	139.00	140.38	140.40	139.70	139.37	139.20	139.20	139.07	
4	139.09	139.21	139.06	139.39	138.94	140.56	140.17	139.74	139.34	139.23	139.28	139.07	
5	139.08	139.21	139.17	139.45	138.99	140.76	140.17	139.90	139.35	139.20	139.24	139.05	
6	139.07	139.30	139.18	139.37	139.08	140.67	140.39	139.97	139.34	139.19	139.23	139.04	
7	139.05	139.38	139.16	139.26	139.34	140.46	140.51	140.00	139.32	139.18	139.22	139.04	
8	139.03	139.37	139.26	139.18	139.22	140.21	140.51	140.00	139.32	139.19	139.18	139.08	
9	139.03	139.38	139.39	139.06	139.45	139.91	140.46	139.98	139.31	139.19	139.15	139.07	
10	139.02	139.41	139.38	138.95	139.20	139.71	140.38	139.91	139.30	139.15	139.12	139.06	
11	139.02	139.44	139.40	138.96	139.78	139.59	140.27	139.86	139.30	139.15	139.14	139.04	
12	139.03	139.56	139.34	138.90	139.52	139.50	140.15	139.99	139.30	139.14	139.12	139.04	
13	139.03	139.56	139.37	138.90	139.68	139.76	140.05	140.09	139.27	139.15	139.10	139.04	
14	139.02	139.45	140.11	138.94	140.32	141.17	139.94	140.11	139.26	139.15	139.10	139.02	
15	139.02	139.41	140.60	138.92	140.66	142.45	139.91	140.05	139.24	139.15	139.10	139.00	
16	139.10	139.39	140.45	138.91	140.62	142.39	139.86	139.96	139.23	139.16	139.09	139.05	
17	139.12	139.42	140.23	138.97	140.39	143.00	139.85	139.84	139.22	139.19	139.07	139.08	
18	139.12	139.48	140.19	139.39	140.26	143.28	139.82	139.77	139.26	139.18	139.05	139.11	
19	139.11	139.44	140.17	139.78	140.20	143.99	139.85	139.70	139.24	139.19	139.03	139.06	
20	139.13	139.45	140.07	139.57	140.22	145.03	139.81	139.64	139.22	139.17	139.05	139.06	
21	139.12	139.40	139.99	139.52	140.36	145.83	139.72	139.59	139.16	139.15	139.07	139.06	
22	139.09	139.37	139.84	139.62	140.36	145.94	139.66	139.56	139.23	139.15	139.05	139.41	
23	139.08	139.32	139.71	139.61	140.33	145.77	139.69	139.53	139.21	139.16	139.04	139.14	
24	139.07	139.28	139.62	139.56	141.52	146.38	139.67	139.51	139.18	139.15	139.09	139.12	
25	139.07	139.24	139.49	139.53	142.70	146.82	139.65	139.47	139.20	139.13	139.11	139.09	
26	139.04	139.20	139.49	139.49	142.11	146.56	139.65	139.48	139.23	139.12	139.11	139.09	
27	139.03	139.24	139.67	139.43	141.73	145.22	139.65	139.44	139.21	139.18	139.10	139.12	
28	139.04	139.15	139.71	139.36	141.43	143.22	139.65	139.42	139.19	139.19	139.12	139.13	
29	139.04	139.10	139.59	139.30	141.12	142.15	139.62	139.40	139.15	139.15		139.11	
30	139.12	139.08	139.43	139.24	140.82	141.58	139.59	139.40	139.16	139.15		139.13	
31		139.08		139.13	140.51		139.67		139.16	139.18		139.15	
Mean	139.07	139.32	139.61	139.29	140.19	142.43	140.02	139.74	139.26	139.17	139.13	139.09	
Max	139.13	139.56	140.60	139.78	142.70	146.82	141.11	140.11	139.40	139.23	139.28	139.41	146.82
Min	139.02	139.08	139.04	138.90	138.94	139.50	139.59	139.40	139.15	139.12	139.03	139.00	138.90

Annual Max Momentary Gage Height 146.88 M (MSL), at 17.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 138.34 M (MSL), River Bed 138.10 M (MSL)
Left Bank Elevation 150.00 M (MSL)
Right Bank Elevation 149.96 M (MSL), Drainage Area 1511 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.33	0.35	0.18	6.20	1.50	26.40	53.85	6.20	1.90	0.50	0.55	0.45	
2	0.28	0.45	0.10	5.40	1.90	25.50	40.55	5.80	2.00	0.55	0.80	0.25	
3	0.22	0.65	0.10	4.60	1.00	29.40	30.00	7.00	1.70	0.50	0.50	0.18	
4	0.22	0.55	0.15	4.90	0.76	34.80	23.25	7.80	1.40	0.65	0.90	0.18	
5	0.20	0.55	0.43	6.00	0.96	41.60	23.25	12.00	1.50	0.50	0.70	0.13	
6	0.18	1.00	0.45	4.70	1.80	38.45	29.70	14.10	1.40	0.48	0.65	0.10	
7	0.13	1.80	0.40	3.60	4.40	31.80	33.30	15.00	1.20	0.45	0.60	0.10	
8	0.07	1.70	0.80	2.80	3.20	24.30	33.30	15.00	1.20	0.48	0.45	0.20	
9	0.07	1.80	1.90	1.60	6.00	16.75	31.10	14.40	1.10	0.48	0.37	0.18	
10	0.05	2.10	1.80	0.80	3.00	11.75	28.30	12.30	1.00	0.37	0.30	0.15	
11	0.05	2.40	2.00	0.84	13.50	8.80	24.45	10.80	1.00	0.37	0.35	0.10	
12	0.07	4.20	1.40	0.60	7.40	7.00	20.25	14.70	1.00	0.35	0.30	0.10	
13	0.07	4.20	1.70	0.60	11.00	13.00	16.75	18.15	0.85	0.37	0.25	0.10	
14	0.05	2.50	18.85	0.76	27.60	55.95	13.20	18.85	0.80	0.37	0.25	0.05	
15	0.05	2.10	36.00	0.68	38.10	111.50	12.30	16.75	0.70	0.37	0.25	0.00	
16	0.25	1.90	31.50	0.64	36.70	108.50	10.80	13.80	0.65	0.40	0.22	0.13	
17	0.30	2.20	24.90	0.88	29.70	140.00	10.50	10.20	0.60	0.48	0.18	0.20	
18	0.30	2.80	23.75	4.90	25.80	156.80	9.60	8.40	0.80	0.45	0.13	0.28	
19	0.28	2.40	23.25	13.50	24.00	199.40	10.50	7.00	0.70	0.48	0.07	0.15	
20	0.33	2.50	20.75	8.40	24.60	271.22	9.30	5.80	0.60	0.43	0.13	0.15	
21	0.30	2.00	18.75	7.40	28.80	331.74	7.40	4.80	0.40	0.37	0.18	0.15	
22	0.22	1.70	15.00	9.50	28.80	340.32	6.20	4.20	0.65	0.37	0.13	2.10	
23	0.20	1.20	11.75	9.25	27.90	327.06	6.80	3.60	0.55	0.40	0.10	0.35	
24	0.18	0.90	9.50	8.20	69.80	376.80	6.40	3.20	0.45	0.37	0.22	0.30	
25	0.18	0.70	6.80	7.60	124.25	414.20	6.00	2.70	0.50	0.33	0.28	0.22	
26	0.10	0.50	6.80	6.80	94.95	392.10	6.00	2.80	0.65	0.30	0.28	0.22	
27	0.07	0.70	10.75	5.60	78.20	285.28	6.00	2.40	0.55	0.45	0.25	0.30	
28	0.10	0.37	11.75	4.60	66.20	153.20	6.00	2.20	0.48	0.48	0.30	0.33	
29	0.10	0.25	8.80	4.00	54.20	96.75	5.40	2.00	0.37	0.37		0.28	
30	0.30	0.20	5.60	3.40	43.70	72.20	4.80	2.00	0.40	0.37		0.33	
31		0.20		2.30	33.30		6.40		0.40	0.45		0.37	
Total	5.25	46.87	295.91	141.05	913.02	4142.57	531.65	263.95	27.50	13.29	9.69	8.13	6398.88 CMSDAY
Mean	0.17	1.51	9.86	4.55	29.45	138.09	17.15	8.80	0.89	0.43	0.35	0.26	17.53 CMS
Max	0.33	4.20	36.00	13.50	124.25	414.20	53.85	18.85	2.00	0.65	0.90	2.10	414.20 CMS
Min	0.05	0.20	0.10	0.60	0.76	7.00	4.80	2.00	0.37	0.30	0.07	0.00	0.00 CMS
Runoff	0.454	4.050	25.567	12.187	78.885	357.918	45.935	22.805	2.376	1.148	0.837	0.702	552.863 MCM

Momentary Peak 419.30 CMS, at 146.88 M (MSL), at 17.00 Hours, on Sep 25, 1996
Runoff Yield 11.60 Liters/Second/Square KM, Momentary Peak Yield 277.498 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

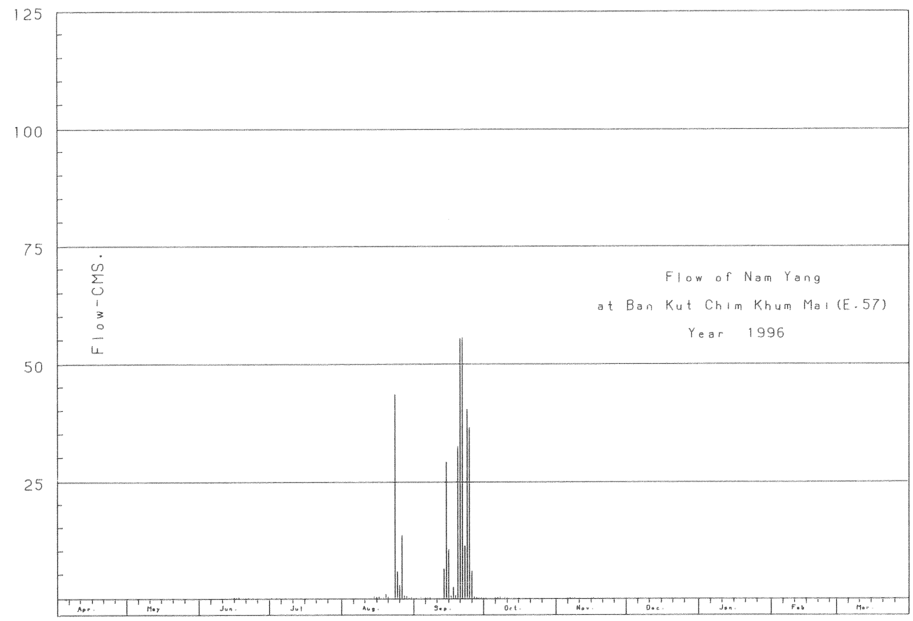
Nam Yang at Ban Kut Chim Khum Mai, Kalasin (E.57)

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	+170.10 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+177.855 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	1969-1971, 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 28 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	170.00	170.00	169.98	170.15	170.05	170.20	170.15	170.06	170.01	169.89	169.78	169.80	
2	170.00	170.00	169.98	170.18	170.04	170.25	170.12	170.06	170.00	169.89	169.78	169.80	
3	170.00	170.00	169.98	170.16	170.03	170.34	170.11	170.06	170.00	169.88	169.78	169.80	
4	170.00	170.00	169.99	170.13	170.06	170.29	170.10	170.12	169.99	169.88	169.78	169.80	
5	170.00	170.00	170.00	170.09	170.08	170.27	170.24	170.13	169.99	169.87	169.78	169.80	
6	170.00	170.00	170.01	170.08	170.08	170.27	170.34	170.17	169.98	169.86	169.78	169.80	
7	170.00	170.00	170.02	170.09	170.07	170.24	170.31	170.19	169.98	169.85	169.78	169.80	
8	170.00	170.00	170.02	170.08	170.07	170.20	170.29	170.18	169.98	169.84	169.78	169.80	
9	170.00	170.00	170.03	170.07	170.06	170.17	170.28	170.16	169.98	169.82	169.78	169.80	
10	170.00	170.00	170.03	170.06	170.06	170.13	170.25	170.15	169.98	169.81	169.78	169.80	
11	170.00	170.00	170.04	170.04	170.05	170.12	170.21	170.14	169.98	169.80	169.79	169.81	
12	170.00	170.00	170.04	170.03	170.05	170.26	170.18	170.17	169.98	169.79	169.79	169.82	
13	170.00	170.00	170.06	170.02	170.19	170.89	170.17	170.19	169.98	169.78	169.79	169.83	
14	170.00	170.00	170.21	170.01	170.45	171.61	170.16	170.17	169.98	169.78	169.79	169.84	
15	170.00	170.00	170.31	170.00	170.39	171.02	170.15	170.15	169.98	169.78	169.79	169.85	
16	170.00	170.00	170.32	169.99	170.35	170.65	170.14	170.13	169.98	169.78	169.79	169.86	
17	170.00	170.00	170.24	169.98	170.29	170.76	170.13	170.11	169.97	169.78	169.79	169.87	
18	170.00	170.00	170.18	169.97	170.22	170.65	170.12	170.07	169.97	169.78	169.79	169.88	
19	170.00	170.00	170.15	169.97	170.71	171.70	170.11	170.06	169.96	169.78	169.79	169.89	
20	170.00	170.00	170.19	169.97	170.36	172.22	170.10	170.05	169.96	169.78	169.79	169.90	
21	170.00	170.00	170.15	169.97	170.26	172.22	170.09	170.05	169.95	169.78	169.79	169.91	
22	170.00	170.00	170.14	169.97	170.22	171.05	170.08	170.05	169.95	169.78	169.79	169.92	
23	170.00	170.00	170.13	169.98	171.96	171.89	170.07	170.04	169.94	169.78	169.79	169.93	
24	170.00	170.00	170.12	170.00	170.87	171.80	170.07	170.04	169.94	169.78	169.79	169.94	
25	170.00	170.00	170.11	170.09	170.77	170.87	170.06	170.04	169.93	169.78	169.79	169.95	
26	170.00	170.00	170.15	170.08	171.12	170.46	170.06	170.03	169.93	169.78	169.79	169.96	
27	170.00	170.00	170.12	170.08	170.67	170.37	170.06	170.02	169.92	169.78	169.79	169.97	
28	170.00	170.00	170.10	170.07	170.46	170.25	170.06	170.01	169.91	169.78	169.79	169.98	
29	170.00	170.00	170.13	170.07	170.31	170.21	170.06	170.01	169.91	169.78		169.99	
30	170.00	170.00	170.11	170.07	170.23	170.18	170.06	170.01	169.90	169.78		170.00	
31		170.00		170.06	170.19		170.06		169.90	169.78		169.99	
Mean	170.00	170.00	170.10	170.05	170.35	170.72	170.14	170.09	169.96	169.81	169.79	169.87	
Max	170.00	170.00	170.32	170.18	171.96	172.22	170.34	170.19	170.01	169.89	169.79	170.00	172.22
Min	170.00	170.00	169.98	169.97	170.03	170.12	170.06	170.01	169.90	169.78	169.78	169.80	169.78

Annual Max Momentary Gage Height 173.10 M (MSL), at 19.00 Hours, on Sep 23, 1996
Zero Gage at Bottom Elevation 170.10 M (MSL), River Bed 169.63 M (MSL)
Left Bank Elevation 177.63 M (MSL)
Right Bank Elevation 177.63 M (MSL), Drainage Area 98 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.15	0.05	0.20	0.15	0.06	0.01	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.18	0.04	0.25	0.12	0.06	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.16	0.03	0.34	0.11	0.06	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.13	0.06	0.29	0.10	0.12	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.09	0.08	0.27	0.24	0.13	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.01	0.08	0.08	0.27	0.34	0.17	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.02	0.09	0.07	0.24	0.31	0.19	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.02	0.08	0.07	0.20	0.29	0.18	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.03	0.07	0.06	0.17	0.28	0.16	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.03	0.06	0.06	0.13	0.25	0.15	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.04	0.04	0.05	0.12	0.21	0.14	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.04	0.03	0.05	0.26	0.18	0.17	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.06	0.02	0.19	6.50	0.17	0.19	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.21	0.01	0.45	29.35	0.16	0.17	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.31	0.00	0.39	10.46	0.15	0.15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.32	0.00	0.35	0.65	0.14	0.13	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.24	0.00	0.29	2.53	0.13	0.11	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.18	0.00	0.22	0.65	0.12	0.07	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.15	0.00	1.01	32.50	0.11	0.06	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.19	0.00	0.36	55.60	0.10	0.05	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.15	0.00	0.26	55.60	0.09	0.05	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.14	0.00	0.22	11.38	0.08	0.05	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.13	0.00	43.70	40.55	0.07	0.04	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.12	0.00	5.88	36.50	0.07	0.04	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.11	0.09	2.84	5.88	0.06	0.04	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.15	0.08	13.51	0.46	0.06	0.03	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.12	0.08	0.67	0.37	0.06	0.02	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.10	0.07	0.46	0.25	0.06	0.01	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.13	0.07	0.31	0.21	0.06	0.01	0.00	0.00		0.00	
30	0.00	0.00	0.11	0.07	0.23	0.18	0.06	0.01	0.00	0.00		0.00	
31		0.00		0.06	0.19		0.06		0.00	0.00		0.00	
Total	0.00	0.00	3.11	1.71	72.23	292.36	4.39	2.82	0.01	0.00	0.00	0.00	376.63 CMSDAY
Mean	0.00	0.00	0.10	0.06	2.33	9.75	0.14	0.09	0.00	0.00	0.00	0.00	1.03 CMS
Max	0.00	0.00	0.32	0.18	43.70	55.60	0.34	0.19	0.01	0.00	0.00	0.00	55.60 CMS
Min	0.00	0.00	0.00	0.00	0.03	0.12	0.06	0.01	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.269	0.148	6.241	25.260	0.379	0.244	0.001	0.000	0.000	0.000	32.541 MCM

Momentary Peak 111.00 CMS, at 173.10 M (MSL), at 19.00 Hours, on Sep 23, 1996

Runoff Yield 10.53 Liters/Second/Square KM, Momentary Peak Yield 1132.653 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

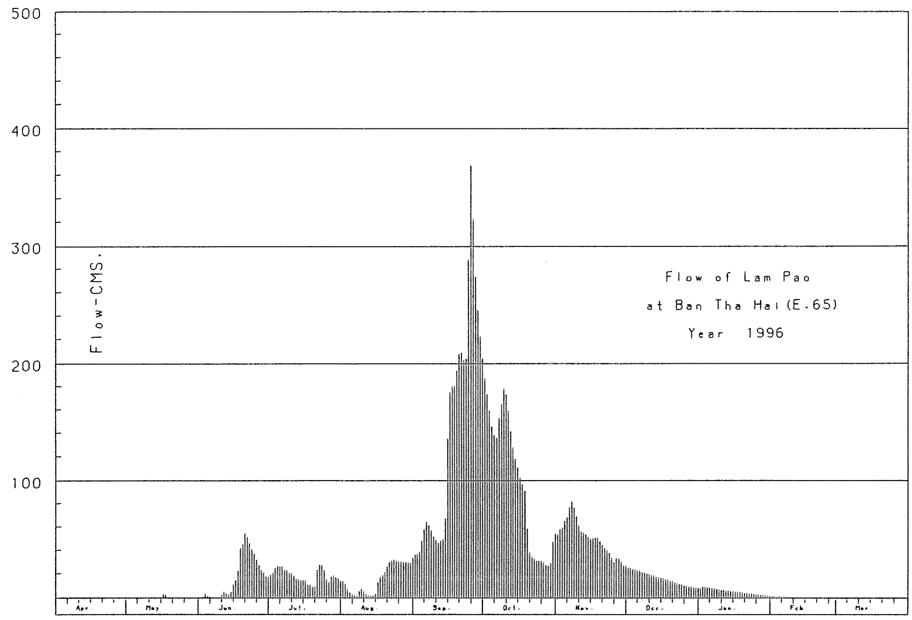
Lam Pao at Ban Tha Hai, Udon Thani (E.65)

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	+158.99 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+169.686 m.(M.S.L.)
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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Lam Pao Dam. Stage-discharge relation defined by 67 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.69	161.84	160.40	162.11	161.85	162.91	165.86	164.15	163.52	162.71	162.08	161.16	
2	161.68	161.93	160.66	162.22	161.74	162.92	165.75	164.21	163.49	162.80	162.06	161.11	
3	161.68	161.80	161.00	162.37	161.41	163.02	165.61	164.23	163.47	162.77	162.02	161.08	
4	161.67	161.72	160.81	162.47	161.14	163.33	165.46	164.29	163.45	162.76	162.01	161.03	
5	161.67	161.69	160.67	162.46	160.98	163.67	165.36	164.33	163.43	162.74	161.99	161.00	
6	161.68	161.64	160.56	162.43	160.84	163.86	165.34	164.41	163.42	162.71	161.97	160.95	
7	161.68	161.61	160.47	162.32	160.82	163.79	165.54	164.45	163.38	162.68	161.92	160.91	
8	161.68	161.65	160.43	162.30	161.26	163.63	165.67	164.41	163.35	162.66	161.90	160.89	
9	161.68	161.64	160.82	162.21	161.41	163.47	165.79	164.34	163.33	162.64	161.86	160.87	
10	161.67	161.61	160.98	162.17	161.22	163.35	165.75	164.25	163.30	162.61	161.82	160.84	
11	161.67	161.62	161.17	162.09	161.03	163.29	165.61	164.19	163.28	162.58	161.78	160.84	
12	161.69	161.78	161.10	161.99	160.88	163.33	165.41	164.17	163.26	162.56	161.75	160.85	
13	161.70	161.79	160.93	161.95	160.78	163.39	165.22	164.15	163.22	162.53	161.71	160.82	
14	161.70	161.71	161.20	161.93	160.79	163.94	165.07	164.11	163.19	162.51	161.67	160.86	
15	161.69	161.66	161.70	161.93	161.01	165.33	164.94	164.09	163.18	162.49	161.63	160.82	
16	161.69	162.24	161.90	161.88	161.83	165.76	164.79	164.09	163.15	162.48	161.61	160.73	
17	161.69	162.16	162.30	161.68	162.05	165.81	164.66	164.11	163.13	162.46	161.56	160.69	
18	161.74	161.69	163.11	161.64	162.13	165.81	164.55	164.10	163.09	162.43	161.52	160.69	
19	161.77	161.34	163.26	161.55	162.23	165.91	164.22	164.06	163.05	162.41	161.50	160.65	
20	161.77	161.39	163.54	161.54	162.46	165.99	163.86	164.00	163.02	162.38	161.43	160.63	
21	161.77	161.42	163.45	162.30	162.60	166.00	163.77	163.95	162.98	162.35	161.40	160.62	
22	161.77	161.31	163.26	162.52	162.68	165.96	163.73	163.91	162.94	162.32	161.34	160.61	
23	161.76	161.35	163.10	162.48	162.70	165.97	163.69	163.86	162.92	162.28	161.31	160.60	
24	161.72	161.10	162.92	162.32	162.67	166.28	163.68	163.75	162.88	162.28	161.28	160.59	
25	161.70	160.90	162.70	161.94	162.64	166.47	163.69	163.66	162.85	162.25	161.24	160.59	
26	161.74	160.74	162.51	161.81	162.62	166.37	163.64	163.74	162.82	162.22	161.21	160.60	
27	161.88	160.63	162.32	162.07	162.61	166.24	163.58	163.74	162.80	162.19	161.19	160.59	
28	161.80	160.55	162.20	162.10	162.61	166.15	163.55	163.66	162.77	162.18	161.17	160.60	
29	161.77	160.50	162.08	162.04	162.60	166.06	163.63	163.57	162.74	162.15		160.61	
30	161.80	160.45	162.05	161.97	162.58	165.97	164.04	163.55	162.73	162.12		160.60	
31		160.42		161.90	162.77		164.15		162.72	162.10		160.59	
Mean	161.72	161.42	161.79	162.09	161.84	164.80	164.70	164.05	163.12	162.46	161.64	160.77	
Max	161.88	162.24	163.54	162.52	162.77	166.47	165.86	164.45	163.52	162.80	162.08	161.16	166.47
Min	161.67	160.42	160.40	161.54	160.78	162.91	163.55	163.55	162.72	162.10	161.17	160.59	160.40

Annual Max Momentary Gage Height 166.48 M (MSL), at 12.00 Hours, on Sep 25, 1996
Zero Gage at Bottom Elevation 158.99 M (MSL), River Bed 159.37 M (MSL)
Left Bank Elevation 169.65 M (MSL)
Right Bank Elevation 169.41 M (MSL), Drainage Area 1949 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.58	0.00	19.48	14.25	37.48	187.80	54.75	26.60	8.65	1.90	0.00	
2	0.00	1.15	1.30	21.95	12.60	37.70	174.50	58.85	25.70	10.00	1.80	0.00	
3	0.00	0.30	3.50	25.32	7.65	40.00	160.00	60.55	25.10	9.55	1.60	0.00	
4	0.00	0.06	2.05	27.58	4.90	48.90	146.80	65.65	24.50	9.40	1.55	0.00	
5	0.00	0.00	1.35	27.35	3.30	59.10	138.80	69.35	23.90	9.10	1.45	0.00	
6	0.00	0.00	0.88	26.67	2.20	65.10	137.20	77.40	23.60	8.65	1.35	0.00	
7	0.00	0.00	0.61	24.20	2.10	62.70	153.60	83.00	22.50	8.20	1.10	0.00	
8	0.00	0.00	0.49	23.75	6.10	57.90	166.00	77.40	21.75	7.90	1.00	0.00	
9	0.00	0.00	2.10	21.73	7.65	53.10	178.90	70.30	21.25	7.60	0.72	0.00	
10	0.00	0.00	3.30	20.82	5.70	49.50	174.50	62.25	20.50	7.15	0.44	0.00	
11	0.00	0.00	5.20	19.02	3.80	47.70	160.00	57.35	20.00	6.80	0.24	0.00	
12	0.00	0.24	4.50	16.80	2.40	48.90	142.80	56.05	19.50	6.60	0.15	0.00	
13	0.00	0.27	2.80	16.00	1.90	50.70	128.40	54.75	18.50	6.30	0.03	0.00	
14	0.00	0.03	5.50	15.60	1.95	67.90	119.20	52.15	17.80	6.10	0.00	0.00	
15	0.00	0.00	12.00	15.60	3.60	136.40	111.40	50.90	17.60	5.90	0.00	0.00	
16	0.00	3.40	15.00	14.70	13.95	175.60	103.50	50.90	17.00	5.80	0.00	0.00	
17	0.00	2.60	23.75	11.70	18.13	181.30	97.20	52.15	16.60	5.60	0.00	0.00	
18	0.12	0.00	42.30	11.10	19.93	181.30	92.25	51.50	15.80	5.30	0.00	0.00	
19	0.21	0.00	46.80	9.75	22.17	194.70	59.70	49.10	15.00	5.10	0.00	0.00	
20	0.21	0.00	55.20	9.60	27.35	208.30	38.90	45.50	14.40	4.80	0.00	0.00	
21	0.21	0.00	52.50	23.75	30.50	210.00	35.30	43.00	13.60	4.50	0.00	0.00	
22	0.21	0.00	46.80	28.70	32.30	203.20	33.70	41.00	12.80	4.20	0.00	0.00	
23	0.18	0.00	42.00	27.80	32.75	204.90	32.15	38.90	12.40	3.80	0.00	0.00	
24	0.06	0.00	37.70	24.20	32.07	288.80	31.80	34.50	11.60	3.80	0.00	0.00	
25	0.00	0.00	32.75	15.80	31.40	369.30	32.15	31.10	11.00	3.50	0.00	0.00	
26	0.12	0.00	28.47	13.65	30.95	323.30	30.40	34.10	10.40	3.20	0.00	0.00	
27	0.86	0.00	24.20	18.58	30.73	274.40	28.40	34.10	10.00	2.90	0.00	0.00	
28	0.30	0.00	21.50	19.25	30.73	246.00	27.50	31.10	9.55	2.80	0.00	0.00	
29	0.21	0.00	18.80	17.90	30.50	223.20	30.05	28.10	9.10	2.50		0.00	
30	0.30	0.00	18.13	16.40	30.05	204.90	47.90	27.50	8.95	2.20		0.00	
31		0.00		15.00	34.33		54.75		8.80	2.00		0.00	
Total	2.99	8.63	551.48	599.75	527.94	4352.28	3055.55	1543.25	525.80	179.90	13.33	0.00	11360.90 CMSDAY
Mean	0.10	0.28	18.38	19.35	17.03	145.08	98.57	51.44	16.96	5.80	0.48	0.00	31.13 CMS
Max	0.86	3.40	55.20	28.70	34.33	369.30	187.80	83.00	26.60	10.00	1.90	0.00	369.30 CMS
Min	0.00	0.00	0.00	9.60	1.90	37.48	27.50	27.50	8.80	2.00	0.00	0.00	0.00 CMS
Runoff	0.258	0.746	47.648	51.818	45.614	376.037	263.999	133.337	45.429	15.543	1.152	0.000	981.582 MCM

Momentary Peak 374.20 CMS, at 166.48 M (MSL), at 12.00 Hours, on Sep 25, 1996

Runoff Yield 15.97 Liters/Second/Square KM, Momentary Peak Yield 191.996 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

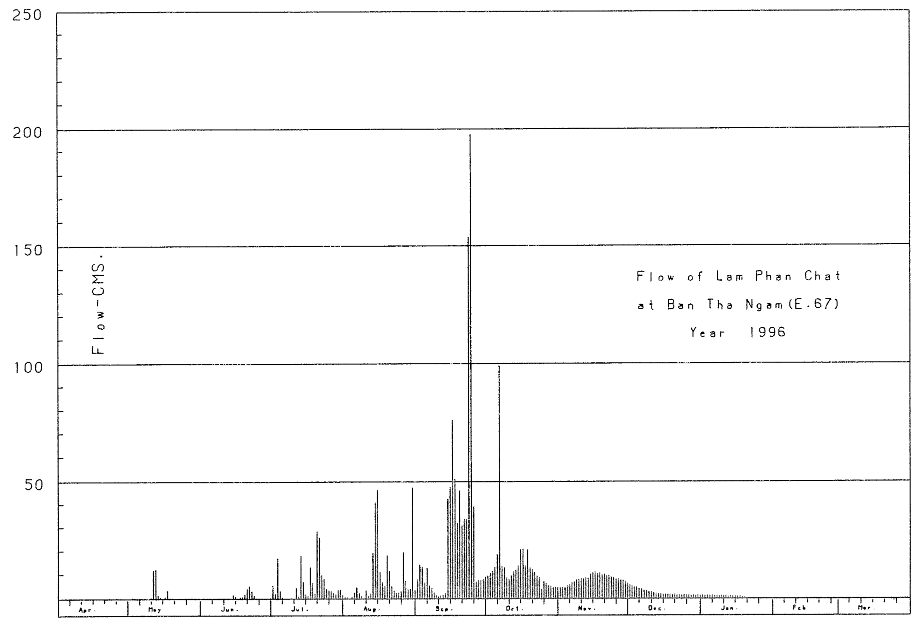
Lam Phan Chat at Ban Tha Ngam, Kalasin (E.67)

Location	Lat. 16°-57′-17″ N., Long. 103°-29′-40″ E., on left bank at the bridge on road, Ban Tha Ngam, Amphoe Wang Sam Mo, Kalasin.	
Drainage Area		420 sq.km.
Type of Gage		Water-stage recorder.
Zero Gage at Bottom		+158.87 m.(M.S.L.)
Bench Mark		B.M.-H.D.
Location		On left bank downstream side at the abutment of the bridge.
Elevation		+172.518 m.(M.S.L.)
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		Fairy stable.
Overbank Flow Conditions		No overbank flow.
General Description		Records fair. Flow effected by Lam Pao Dam. Stage-discharge relation defined by 94 discharge measurements made in 1996

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.76	159.82	159.66	160.38	160.02	160.50	162.15	162.65	162.71	162.01	161.24	160.28	
2	159.76	159.88	159.65	160.13	159.97	160.79	162.19	162.65	162.68	162.00	161.23	160.24	
3	159.73	159.98	159.72	160.90	159.93	160.74	162.23	162.65	162.66	161.97	161.20	160.19	
4	159.74	159.85	159.78	160.24	160.00	160.44	162.29	162.68	162.65	161.95	161.18	160.16	
5	159.80	159.86	159.76	160.01	160.16	160.72	162.45	162.71	162.63	161.92	161.15	160.12	
6	159.77	159.82	159.73	159.90	160.35	160.39	163.30	162.73	162.61	161.89	161.11	160.09	
7	159.76	159.79	159.70	159.83	160.17	160.32	162.90	162.75	162.58	161.85	161.09	160.04	
8	159.76	159.78	159.68	159.81	160.04	160.19	162.89	162.77	162.55	161.81	161.06	160.02	
9	159.75	159.76	159.78	159.82	159.95	160.10	162.80	162.78	162.53	161.79	161.02	160.00	
10	159.73	159.95	159.77	159.87	160.24	160.05	162.78	162.79	162.50	161.76	160.99	159.98	
11	159.73	160.67	159.74	160.31	160.04	160.05	162.82	162.79	162.48	161.73	160.95	159.96	
12	159.73	160.70	159.72	160.05	160.15	160.10	162.85	162.80	162.46	161.71	160.90	159.93	
13	159.72	160.10	159.86	160.94	160.98	160.16	162.87	162.80	162.43	161.68	160.87	159.91	
14	159.71	159.94	160.11	160.47	161.78	161.77	162.90	162.83	162.42	161.67	160.82	159.89	
15	159.71	159.86	160.01	160.13	161.93	161.97	162.91	162.85	162.38	161.64	160.78	159.87	
16	159.71	160.00	159.87	160.04	160.77	162.76	162.91	162.85	162.36	161.62	160.75	159.85	
17	159.70	160.25	159.94	160.74	160.46	162.08	162.90	162.84	162.34	161.60	160.71	159.83	
18	159.69	159.97	160.03	160.44	160.37	161.46	162.91	162.84	162.30	161.58	160.67	159.80	
19	159.68	159.88	160.11	160.16	160.95	161.92	162.89	162.83	162.28	161.56	160.62	159.79	
20	159.67	159.82	160.29	161.34	160.67	161.43	162.87	162.83	162.26	161.52	160.58	159.78	
21	159.68	159.79	160.38	161.25	160.38	161.51	162.85	162.82	162.23	161.50	160.54	159.77	
22	159.90	159.81	160.23	160.60	160.23	161.52	162.82	162.82	162.20	161.47	160.47	159.76	
23	159.83	159.75	160.07	160.51	160.18	164.39	162.80	162.81	162.18	161.47	160.44	159.73	
24	159.76	159.72	159.94	160.30	160.16	165.15	162.78	162.80	162.16	161.46	160.40	159.74	
25	159.74	159.69	159.87	160.26	160.23	162.79	162.75	162.79	162.13	161.42	160.37	159.74	
26	159.76	159.74	159.83	160.21	161.00	162.01	162.73	162.78	162.10	161.39	160.34	159.75	
27	159.70	159.73	159.78	160.19	160.47	161.97	162.70	162.77	162.07	161.37	160.32	159.77	
28	159.69	159.71	159.76	160.10	160.28	162.04	162.68	162.76	162.05	161.34	160.30	159.94	
29	159.69	159.69	159.87	160.27	160.28	162.07	162.65	162.75	162.05	161.33		159.84	
30	159.72	159.68	160.00	160.26	161.97	162.11	162.64	162.72	162.03	161.30		159.79	
31		159.67		160.11	160.76		162.64		162.02	161.27		159.81	
Mean	159.74	159.89	159.89	160.31	160.48	161.45	162.74	162.77	162.36	161.63	160.79	159.92	
Max	159.90	160.70	160.38	161.34	161.97	165.15	163.30	162.85	162.71	162.01	161.24	160.28	165.15
Min	159.67	159.67	159.65	159.81	159.93	160.05	162.15	162.65	162.02	161.27	160.30	159.73	159.65

Annual Max Momentary Gage Height 166.26 M (MSL), at 20.00 Hours, on Sep 23, 1996
Zero Gage at Bottom Elevation 158.87 M (MSL), River Bed 159.34 M (MSL)
Left Bank Elevation 171.10 M (MSL)
Right Bank Elevation 172.53 M (MSL), Drainage Area 420 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.34	0.16	5.70	1.00	8.20	10.00	5.00	6.30	1.61	0.28	0.02	
2	0.01	0.46	0.15	2.04	0.71	14.87	10.80	5.00	5.60	1.59	0.28	0.02	
3	0.01	0.74	0.22	17.50	0.59	13.72	11.90	5.00	5.20	1.57	0.26	0.02	
4	0.01	0.40	0.28	3.60	0.80	6.88	13.40	5.60	5.00	1.55	0.24	0.02	
5	0.01	0.42	0.26	0.90	2.52	13.26	19.00	6.30	4.60	1.52	0.23	0.01	
6	0.01	0.34	0.23	0.50	5.10	5.85	99.50	6.90	4.20	1.49	0.21	0.01	
7	0.01	0.29	0.20	0.36	2.64	4.80	14.00	7.50	3.80	1.45	0.20	0.01	
8	0.01	0.28	0.18	0.32	1.20	2.88	13.50	8.10	3.50	1.41	0.18	0.01	
9	0.01	0.26	0.28	0.34	0.65	1.80	9.00	8.40	3.30	1.39	0.16	0.01	
10	0.01	0.65	0.27	0.44	3.60	1.30	8.40	8.70	3.00	1.36	0.14	0.01	
11	0.01	12.11	0.24	4.65	1.20	1.30	10.00	8.70	2.80	1.33	0.12	0.01	
12	0.01	12.80	0.22	1.30	2.40	1.80	11.50	9.00	2.50	1.30	0.09	0.01	
13	0.01	1.80	0.42	18.50	19.50	2.52	12.50	9.00	2.30	1.28	0.07	0.01	
14	0.00	0.62	1.92	7.54	41.40	42.80	14.00	10.50	2.10	1.27	0.04	0.01	
15	0.00	0.42	0.90	2.16	46.40	47.60	21.20	11.50	1.98	1.24	0.03	0.01	
16	0.00	0.80	0.44	1.20	11.42	76.06	21.20	11.50	1.96	1.22	0.03	0.01	
17	0.00	3.75	0.62	13.72	7.32	51.30	14.00	11.00	1.93	1.20	0.02	0.01	
18	0.00	0.71	1.10	6.88	5.55	32.30	21.20	11.00	1.90	1.05	0.03	0.01	
19	0.00	0.46	1.92	2.52	18.75	46.10	13.50	10.50	1.88	0.81	0.03	0.01	
20	0.00	0.32	4.35	28.82	12.11	31.40	12.50	10.50	1.86	0.58	0.02	0.01	
21	0.00	0.29	5.70	26.35	5.70	33.80	11.50	10.00	1.83	0.43	0.02	0.01	
22	0.50	0.32	3.45	10.50	3.45	34.10	10.00	10.00	1.80	0.41	0.02	0.01	
23	0.36	0.25	1.50	8.43	2.76	153.90	9.00	9.50	1.78	0.41	0.02	0.01	
24	0.26	0.22	0.62	4.50	2.52	197.85	4.20	9.00	1.76	0.41	0.02	0.01	
25	0.24	0.19	0.44	3.90	3.45	39.20	7.50	8.70	1.73	0.38	0.02	0.01	
26	0.26	0.24	0.36	3.15	20.00	7.20	6.60	8.40	1.70	0.37	0.02	0.01	
27	0.20	0.23	0.28	2.88	7.54	8.20	6.00	8.10	1.67	0.36	0.02	0.01	
28	0.19	0.21	0.26	1.80	4.20	7.80	5.40	7.80	1.65	0.34	0.02	0.01	
29	0.19	0.19	0.44	4.05	4.20	8.40	5.00	7.50	1.65	0.33		0.01	
30	0.22	0.18	0.80	3.90	47.60	9.20	4.80	6.60	1.63	0.32		0.01	
31		0.17		1.92	3.90		4.80		1.62	0.30		0.01	
Total	2.55	40.46	28.21	190.37	290.18	906.39	435.90	255.30	84.53	30.28	2.82	0.35	2267.34 CMSDAY
Mean	0.09	1.31	0.94	6.14	9.36	30.21	14.06	8.51	2.73	0.98	0.10	0.01	6.21 CMS
Max	0.50	12.80	5.70	28.82	47.60	197.85	99.50	11.50	6.30	1.61	0.28	0.02	197.85 CMS
Min	0.00	0.17	0.15	0.32	0.59	1.30	4.20	5.00	1.62	0.30	0.02	0.01	0.00 CMS
Runoff	0.220	3.496	2.437	16.448	25.072	78.312	37.662	22.058	7.303	2.616	0.244	0.030	195.898 MCM

Momentary Peak 269.50 CMS, at 166.26 M (MSL), at 20.00 Hours, on Sep 23, 1996

Runoff Yield 14.79 Liters/Second/Square KM, Momentary Peak Yield 641.667 Liters/Second/Square KM

WATER YEAR 1996.

CHI RIVER BASIN

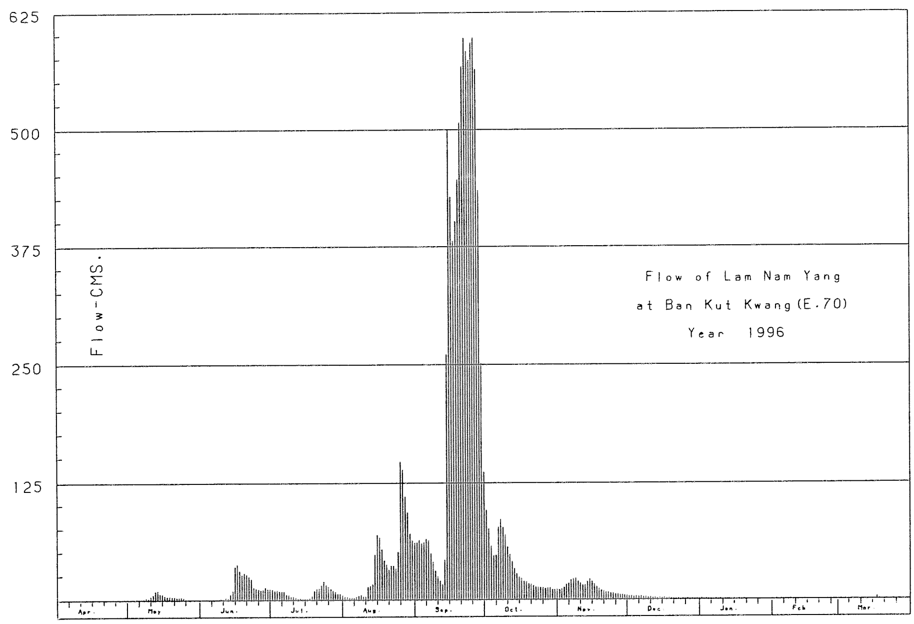
Lam Nam Yang at Ban Kut Kwang, Roi Et (E.70)

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	Staff gage.
Zero Gage at Bottom	+132.12 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+144.037 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	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 52 discharge measurements made in 1996

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	132.15	132.23	132.16	132.85	132.50	134.24	134.93	132.85	132.52	132.33	132.28	132.18	
2	132.15	132.23	132.17	132.82	132.46	134.28	134.52	132.85	132.51	132.33	132.29	132.19	
3	132.15	132.22	132.17	132.82	132.44	134.22	134.16	132.95	132.50	132.32	132.29	132.20	
4	132.15	132.27	132.17	132.80	132.41	134.23	133.92	133.04	132.50	132.32	132.29	132.21	
5	132.15	132.26	132.17	132.78	132.41	134.31	133.96	133.10	132.50	132.32	132.29	132.21	
6	132.15	132.26	132.19	132.75	132.46	134.27	134.55	133.20	132.49	132.31	132.29	132.21	
7	132.15	132.34	132.21	132.62	132.55	134.00	134.72	133.26	132.47	132.31	132.28	132.20	
8	132.15	132.38	132.26	132.56	132.57	133.76	134.56	133.27	132.46	132.31	132.28	132.20	
9	132.15	132.38	132.31	132.50	132.51	133.53	134.39	133.18	132.44	132.30	132.28	132.20	
10	132.15	132.48	132.32	132.46	132.47	133.33	134.14	133.10	132.43	132.30	132.27	132.19	
11	132.15	132.61	132.39	132.41	132.98	133.18	133.96	133.04	132.41	132.30	132.27	132.18	
12	132.15	132.80	132.40	132.37	132.99	133.07	133.79	133.02	132.40	132.30	132.27	132.18	
13	132.15	132.80	132.60	132.36	133.08	133.82	133.59	133.16	132.40	132.30	132.27	132.18	
14	132.14	132.66	132.83	132.34	133.96	137.27	133.44	133.24	132.40	132.29	132.26	132.19	
15	132.14	132.62	133.65	132.33	134.40	139.62	133.33	133.17	132.40	132.29	132.26	132.19	
16	132.14	132.54	133.70	132.34	134.33	138.99	133.26	133.06	132.39	132.29	132.26	132.18	
17	132.13	132.51	133.53	132.35	134.09	138.51	133.18	132.98	132.37	132.29	132.25	132.47	
18	132.13	132.49	133.39	132.53	133.82	138.73	133.14	132.88	132.36	132.28	132.25	132.30	
19	132.13	132.49	133.47	132.81	133.69	139.15	133.09	132.82	132.36	132.28	132.24	132.24	
20	132.13	132.46	133.40	132.87	133.57	139.68	133.05	132.78	132.35	132.28	132.24	132.23	
21	132.14	132.45	133.33	132.90	133.66	140.20	133.01	132.73	132.34	132.27	132.23	132.23	
22	132.14	132.45	133.26	133.04	133.68	140.47	132.97	132.70	132.33	132.27	132.23	132.22	
23	132.14	132.43	132.95	133.16	133.59	140.35	132.93	132.68	132.32	132.27	132.22	132.21	
24	132.14	132.39	132.88	133.05	134.04	140.26	132.94	132.66	132.33	132.27	132.21	132.25	
25	132.14	132.34	132.86	132.97	135.77	140.42	132.91	132.63	132.33	132.27	132.21	132.22	
26	132.14	132.27	132.85	132.90	135.63	140.47	132.91	132.61	132.33	132.27	132.20	132.21	
27	132.15	132.19	132.87	132.83	135.18	140.18	132.93	132.60	132.33	132.27	132.19	132.20	
28	132.15	132.22	132.93	132.73	134.87	139.05	132.91	132.58	132.33	132.27	132.18	132.20	
29	132.19	132.20	132.89	132.66	134.43	137.14	132.86	132.57	132.33	132.27		132.20	
30	132.24	132.18	132.86	132.62	134.27	135.60	132.83	132.53	132.33	132.27		132.21	
31		132.19		132.56	134.22		132.84		132.33	132.27		132.21	
Mean	132.15	132.40	132.77	132.68	133.58	136.88	133.54	132.91	132.40	132.29	132.25	132.22	
Max	132.24	132.80	133.70	133.16	135.77	140.47	134.93	133.27	132.52	132.33	132.29	132.47	140.47
Min	132.13	132.18	132.16	132.33	132.41	133.07	132.83	132.53	132.32	132.27	132.18	132.18	132.13

Annual Max Momentary Gage Height 140.51 M (MSL), at 18.00 Hours, on Sep 6, 1996
Zero Gage at Bottom Elevation 132.12 M (MSL), River Bed 139.38 M (MSL)
Left Bank Elevation 144.56 M (MSL)
Right Bank Elevation 144.10 M (MSL), Drainage Area 3168 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.80	0.38	11.25	4.00	62.00	96.50	11.25	4.40	1.80	1.30	0.44	
2	0.35	0.80	0.41	10.50	3.40	64.00	76.00	11.25	4.20	1.80	1.40	0.47	
3	0.35	0.70	0.41	10.50	3.10	61.00	58.00	13.75	4.00	1.70	1.40	0.50	
4	0.35	1.20	0.41	10.00	2.65	61.50	46.80	16.20	4.00	1.70	1.40	0.60	
5	0.35	1.10	0.41	9.60	2.65	65.50	48.40	18.00	4.00	1.70	1.40	0.60	
6	0.35	1.10	0.47	9.00	3.40	63.50	77.50	21.00	3.85	1.60	1.40	0.60	
7	0.35	1.90	0.60	6.40	5.00	50.00	86.00	22.80	3.55	1.60	1.30	0.50	
8	0.35	2.30	1.10	5.20	5.40	40.40	78.00	23.10	3.40	1.60	1.30	0.50	
9	0.35	2.30	1.60	4.00	4.20	31.55	69.50	20.40	3.10	1.50	1.30	0.50	
10	0.35	3.70	1.70	3.40	3.55	24.90	57.00	18.00	2.95	1.50	1.20	0.47	
11	0.35	6.20	2.40	2.65	14.50	20.40	48.40	16.20	2.65	1.50	1.20	0.44	
12	0.35	10.00	2.50	2.20	14.75	17.10	41.60	15.60	2.50	1.50	1.20	0.44	
13	0.35	10.00	6.00	2.10	17.40	42.80	33.65	19.80	2.50	1.50	1.20	0.44	
14	0.32	7.20	10.75	1.90	48.40	261.60	28.40	22.20	2.50	1.40	1.10	0.47	
15	0.32	6.40	36.00	1.80	70.00	500.30	24.90	20.10	2.50	1.40	1.10	0.47	
16	0.32	4.80	38.00	1.90	66.50	429.00	22.80	16.80	2.40	1.40	1.10	0.44	
17	0.29	4.20	31.55	2.00	54.50	381.00	20.40	14.50	2.20	1.40	1.00	3.55	
18	0.29	3.85	26.70	4.60	42.80	403.00	19.20	12.00	2.10	1.30	1.00	1.50	
19	0.29	3.85	29.45	10.25	37.60	446.50	17.70	10.50	2.10	1.30	0.90	0.90	
20	0.29	3.40	27.00	11.75	32.95	507.20	16.50	9.60	2.00	1.30	0.90	0.80	
21	0.32	3.25	24.90	12.50	36.40	567.00	15.30	8.60	1.90	1.20	0.80	0.80	
22	0.32	3.25	22.80	16.20	37.20	598.05	14.25	8.00	1.80	1.20	0.80	0.70	
23	0.32	2.95	13.75	19.80	33.65	584.25	13.25	7.60	1.70	1.20	0.70	0.60	
24	0.32	2.40	12.00	16.50	52.00	573.90	13.50	7.20	1.80	1.20	0.60	1.00	
25	0.32	1.90	11.50	14.25	148.05	592.30	12.75	6.60	1.80	1.20	0.60	0.70	
26	0.32	1.20	11.25	12.50	138.95	598.05	12.75	6.20	1.80	1.20	0.50	0.60	
27	0.35	0.47	11.75	10.75	110.80	564.70	13.25	6.00	1.80	1.20	0.47	0.50	
28	0.35	0.70	13.25	8.60	93.50	435.50	12.75	5.60	1.80	1.20	0.44	0.50	
29	0.47	0.50	12.25	7.20	71.50	251.20	11.50	5.40	1.80	1.20		0.50	
30	0.90	0.44	11.50	6.40	63.50	137.00	10.75	4.60	1.80	1.20		0.60	
31		0.47		5.20	61.00		11.00		1.80	1.20		0.60	
Total	10.66	93.33	362.79	250.90	1283.30	8435.20	1108.30	398.85	80.70	43.70	29.01	21.73	12118.47 CMSDAY
Mean	0.36	3.01	12.09	8.09	41.40	281.17	35.75	13.30	2.60	1.41	1.04	0.70	33.20 CMS
Max	0.90	10.00	38.00	19.80	148.05	598.05	96.50	23.10	4.40	1.80	1.40	3.55	598.05 CMS
Min	0.29	0.44	0.38	1.80	2.65	17.10	10.75	4.60	1.70	1.20	0.44	0.44	0.29 CMS
Runoff	0.921	8.064	31.345	21.678	110.877	728.801	95.757	34.461	6.972	3.776	2.506	1.877	1047.036 MCM

Momentary Peak 602.65 CMS, at 140.51 M (MSL), at 18.00 Hours, on Sep 6, 1996

Runoff Yield 10.48 Liters/Second/Square KM, Momentary Peak Yield 190.230 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

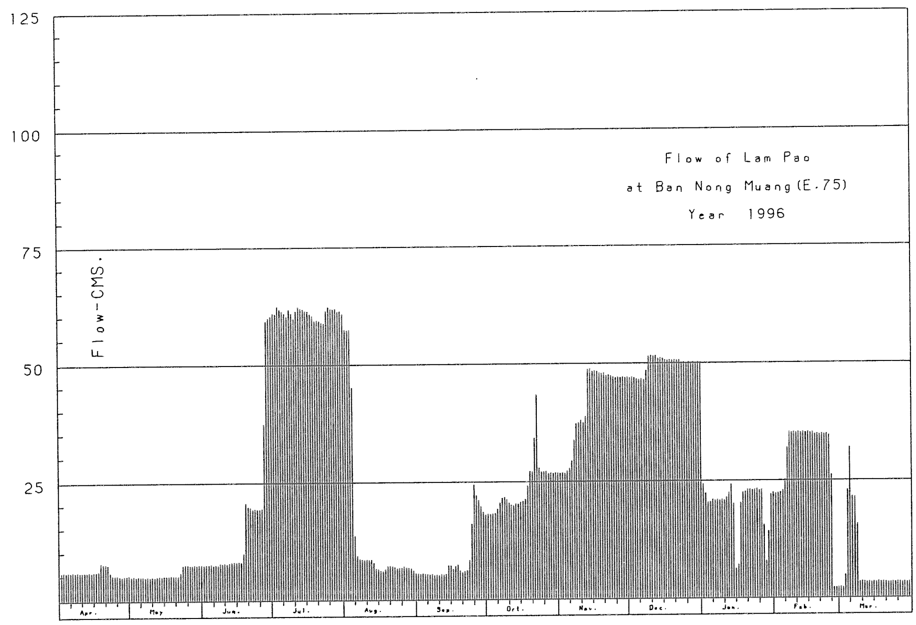
Lam Pao at Ban Nong Muang, Kalasin (E.75)

Location	Lat. 16°-34′-36″ N., Long. 103°-26′-32″ E., on left bank about 3 kilometers downstream from Lam Pao Damsite, 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 gage observer's house.
Elevation	+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. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 96 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	138.67	138.61	138.77	140.36	140.29	138.64	139.25	139.54	140.07	139.46	139.39	138.38	
2	138.67	138.61	138.77	140.36	140.29	138.64	139.25	139.54	140.07	139.40	139.40	138.38	
3	138.67	138.61	138.78	140.39	140.29	138.64	139.25	139.54	140.07	139.33	139.40	138.60	
4	138.67	138.61	138.78	140.38	140.03	138.64	139.26	139.55	140.06	139.34	139.42	139.42	
5	138.67	138.61	138.77	140.37	139.07	138.63	139.29	139.57	140.06	139.35	139.49	139.69	
6	138.67	138.60	138.77	140.36	138.87	138.63	139.34	139.61	140.06	139.35	139.69	139.37	
7	138.67	138.60	138.77	140.35	138.84	138.63	139.37	139.74	140.06	139.35	139.78	139.37	
8	138.67	138.60	138.79	140.38	138.83	138.62	139.38	139.83	140.10	139.35	139.78	139.15	
9	138.67	138.60	138.79	140.36	138.83	138.62	139.36	139.84	140.17	139.35	139.78	138.50	
10	138.66	138.60	138.79	140.34	138.83	138.62	139.34	139.85	140.17	139.35	139.78	138.50	
11	138.67	138.60	138.79	140.37	138.83	138.63	139.32	139.84	140.17	139.37	139.78	138.49	
12	138.67	138.61	138.79	140.39	138.83	138.63	139.32	139.87	140.17	139.40	139.78	138.49	
13	138.67	138.61	138.81	140.38	138.80	138.63	139.33	140.11	140.16	139.46	139.78	138.49	
14	138.67	138.61	138.81	140.38	138.71	138.76	139.33	140.11	140.16	139.32	139.78	138.49	
15	138.67	138.61	138.81	140.37	138.71	138.75	139.34	140.10	140.16	138.69	139.78	138.49	
16	138.67	138.61	138.81	140.37	138.68	138.71	139.35	140.10	140.15	138.74	139.78	138.49	
17	138.69	138.62	138.81	140.36	138.68	138.74	139.36	140.10	140.15	139.33	139.78	138.50	
18	138.80	138.62	138.90	140.35	138.70	138.77	139.46	140.09	140.15	139.40	139.77	138.50	
19	138.79	138.62	139.34	140.33	138.75	138.68	139.55	140.09	140.15	139.41	139.77	138.49	
20	138.79	138.61	139.32	140.33	138.75	138.66	139.55	140.09	140.15	139.42	139.77	138.49	
21	138.77	138.61	139.31	140.33	138.75	138.67	139.75	140.08	140.15	139.42	139.77	138.49	
22	138.67	138.67	139.30	140.32	138.73	138.69	139.99	140.08	140.15	139.42	139.77	138.49	
23	138.62	138.77	139.30	140.32	138.72	138.82	139.57	140.08	140.14	139.42	139.77	138.49	
24	138.62	138.77	139.30	140.37	138.72	139.17	139.55	140.07	140.14	139.43	139.76	138.49	
25	138.62	138.77	139.30	140.39	138.73	139.47	139.55	140.07	140.14	139.42	139.52	138.49	
26	138.61	138.77	139.30	140.38	138.74	139.39	139.55	140.07	140.14	139.42	138.38	138.49	
27	138.61	138.77	139.84	140.38	138.73	139.36	139.54	140.07	140.14	139.15	138.38	138.49	
28	138.61	138.77	140.33	140.38	138.72	139.31	139.54	140.07	140.14	138.80	138.37	138.49	
29	138.62	138.77	140.34	140.37	138.72	139.27	139.54	140.07	140.14	139.09		138.49	
30	138.62	138.77	140.35	140.37	138.68	139.24	139.54	140.07	140.14	139.39		138.49	
31		138.77		140.36	138.65		139.54		140.14	139.40		138.50	
Mean	138.67	138.66	139.12	140.36	138.95	138.82	139.44	139.93	140.13	139.31	139.55	138.63	
Max	138.80	138.77	140.35	140.39	140.29	139.47	139.99	140.11	140.17	139.46	139.78	139.69	140.39
Min	138.61	138.60	138.77	140.32	138.65	138.62	139.25	139.54	140.06	138.69	138.37	138.38	138.37

Annual Max Momentary Gage Height 140.41 M (MSL), at 18.00 Hours, on Jul 3, 1996
Zero Gage at Bottom Elevation 138.02 M (MSL), River Bed 137.51 M (MSL)
Left Bank Elevation 149.45 M (MSL)
Right Bank Elevation 148.58 M (MSL), Drainage Area 6054 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.05	5.15	7.55	61.00	57.50	5.60	18.25	26.90	47.15	24.30	22.20	2.30	
2	6.05	5.15	7.55	61.00	57.50	5.60	18.25	26.90	47.15	22.50	22.50	2.30	
3	6.05	5.15	7.70	62.50	57.50	5.60	18.25	26.90	47.15	20.40	22.50	5.00	
4	6.05	5.15	7.70	62.00	45.35	5.60	18.50	27.25	46.70	20.70	23.10	23.10	
5	6.05	5.15	7.55	61.50	13.75	5.45	19.25	27.95	46.70	21.00	25.20	32.15	
6	6.05	5.00	7.55	61.00	9.40	5.45	20.70	29.35	46.70	21.00	32.15	21.60	
7	6.05	5.00	7.55	60.50	8.80	5.45	21.60	33.90	46.70	21.00	35.30	21.60	
8	6.05	5.00	7.85	62.00	8.60	5.30	21.90	37.20	48.50	21.00	35.30	15.75	
9	6.05	5.00	7.85	61.00	8.60	5.30	21.30	37.60	51.65	21.00	35.30	3.50	
10	5.90	5.00	7.85	60.00	8.60	5.30	20.70	38.00	51.65	21.00	35.30	3.50	
11	6.05	5.00	7.85	61.50	8.60	5.45	20.10	37.60	51.65	21.60	35.30	3.40	
12	6.05	5.15	7.85	62.50	8.60	5.45	20.10	38.80	51.65	22.50	35.30	3.40	
13	6.05	5.15	8.20	62.00	8.00	5.45	20.40	48.95	51.20	24.30	35.30	3.40	
14	6.05	5.15	8.20	62.00	6.65	7.40	20.40	48.95	51.20	20.10	35.30	3.40	
15	6.05	5.15	8.20	61.50	6.65	7.25	20.70	48.50	51.20	6.35	35.30	3.40	
16	6.05	5.15	8.20	61.50	6.20	6.65	21.00	48.50	50.75	7.10	35.30	3.40	
17	6.35	5.30	8.20	61.00	6.20	7.10	21.30	48.50	50.75	20.40	35.30	3.50	
18	8.00	5.30	10.00	60.50	6.50	7.55	24.30	48.05	50.75	22.50	34.95	3.50	
19	7.85	5.30	20.70	59.50	7.25	6.20	27.25	48.05	50.75	22.80	34.95	3.40	
20	7.85	5.15	20.10	59.50	7.25	5.90	27.25	48.05	50.75	23.10	34.95	3.40	
21	7.55	5.15	19.80	59.50	7.25	6.05	34.25	47.60	50.75	23.10	34.95	3.40	
22	6.05	6.05	19.50	59.00	6.95	6.35	43.60	47.60	50.75	23.10	34.95	3.40	
23	5.30	7.55	19.50	59.00	6.80	8.40	27.95	47.60	50.30	23.10	34.95	3.40	
24	5.30	7.55	19.50	61.50	6.80	16.25	27.25	47.15	50.30	23.40	34.60	3.40	
25	5.30	7.55	19.50	62.50	6.95	24.60	27.25	47.15	50.30	23.10	26.20	3.40	
26	5.15	7.55	19.50	62.00	7.10	22.20	27.25	47.15	50.30	23.10	2.30	3.40	
27	5.15	7.55	37.60	62.00	6.95	21.30	26.90	47.15	50.30	15.75	2.30	3.40	
28	5.15	7.55	59.50	62.00	6.80	19.80	26.90	47.15	50.30	8.00	2.20	3.40	
29	5.30	7.55	60.00	61.50	6.80	18.75	26.90	47.15	50.30	14.25		3.40	
30	5.30	7.55	60.50	61.50	6.20	18.00	26.90	47.15	50.30	22.20		3.40	
31		7.55		61.00	5.75		26.90		50.30	22.50		3.50	
Total	182.25	181.70	519.10	1895.50	421.85	280.75	743.55	1248.75	1544.90	626.25	813.25	202.50	8660.35 CMSDAY
Mean	6.08	5.86	17.30	61.15	13.61	9.36	23.99	41.63	49.84	20.20	29.04	6.53	23.73 CMS
Max	8.00	7.55	60.50	62.50	57.50	24.60	43.60	48.95	51.65	24.30	35.30	32.15	62.50 CMS
Min	5.15	5.00	7.55	59.00	5.75	5.30	18.25	26.90	46.70	6.35	2.20	2.30	2.20 CMS
Runoff	15.746	15.699	44.850	163.771	36.448	24.257	64.243	107.892	133.479	54.108	70.265	17.496	748.254 MCM

Momentary Peak 63.50 CMS, at 140.41 M (MSL), at 18.00 Hours, on Jul 3, 1996

Runoff Yield 3.92 Liters/Second/Square KM, Momentary Peak Yield 10.489 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

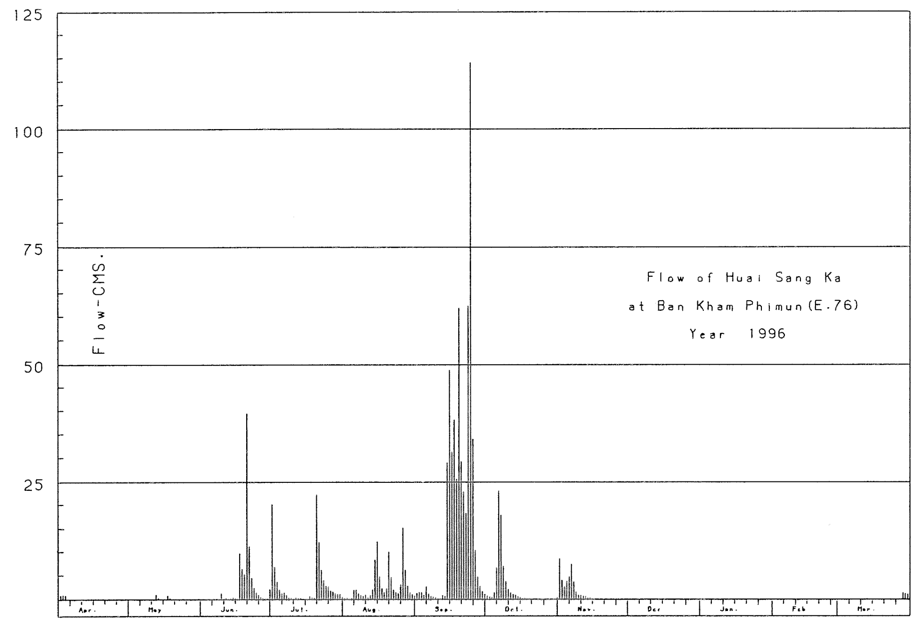
Huai Sang Ka at Ban Kham Phimun, Kalasin (E.76)

Location	Lat. 16°-55′-16″ N., Long. 103°-35′-30″ E., on left bank at the bridge on road near Ban Kham Phimun, Amphoe Kham Muang, Kalasin.
Drainage Area	163 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+175.28 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+183.680 m.(M.S.L..)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00,and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	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. Stage-discharge relation defined by 109 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.69	175.35	175.36	177.94	175.55	175.80	175.66	176.87	175.33	175.29	175.27	175.25	
2	175.69	175.35	175.44	176.66	175.54	175.81	175.64	176.27	175.33	175.29	175.27	175.25	
3	175.70	175.31	175.44	176.20	175.50	175.83	175.61	176.04	175.33	175.30	175.27	175.24	
4	175.43	175.30	175.37	175.94	175.57	175.69	175.80	176.22	175.33	175.30	175.28	175.24	
5	175.36	175.29	175.33	175.76	175.92	176.03	176.64	176.38	175.33	175.30	175.30	175.24	
6	175.32	175.29	175.32	175.80	175.91	175.76	178.15	176.74	175.34	175.30	175.30	175.25	
7	175.31	175.29	175.32	175.71	175.77	175.67	177.76	176.22	175.34	175.29	175.32	175.25	
8	175.29	175.37	175.30	175.59	175.67	175.61	176.67	175.83	175.34	175.29	175.30	175.25	
9	175.28	175.34	175.78	175.53	175.66	175.57	176.23	175.71	175.33	175.29	175.29	175.24	
10	175.26	175.30	175.51	175.51	175.70	175.52	175.95	175.68	175.33	175.29	175.28	175.24	
11	175.26	175.35	175.51	175.56	175.59	175.46	175.79	175.67	175.34	175.28	175.26	175.24	
12	175.25	175.72	175.46	175.54	175.69	175.68	175.74	175.64	175.34	175.27	175.25	175.24	
13	175.26	175.51	175.48	175.52	175.92	175.67	175.69	175.58	175.33	175.29	175.26	175.23	
14	175.27	175.44	175.61	175.48	176.85	178.58	175.65	175.54	175.33	175.29	175.26	175.23	
15	175.26	175.38	175.54	175.42	177.25	179.64	175.57	175.51	175.32	175.29	175.25	175.24	
16	175.26	175.40	175.49	175.39	176.38	178.74	175.53	175.48	175.31	175.29	175.26	175.24	
17	175.26	175.69	177.00	175.66	175.98	179.14	175.51	175.45	175.31	175.28	175.26	175.23	
18	175.25	175.50	176.59	175.55	175.80	178.35	175.53	175.43	175.31	175.28	175.26	175.23	
19	175.25	175.44	176.45	175.56	175.97	180.14	175.49	175.42	175.32	175.28	175.25	175.24	
20	175.33	175.40	179.22	178.08	177.02	178.60	175.49	175.40	175.32	175.28	175.25	175.24	
21	175.33	175.38	177.14	177.24	176.36	178.13	175.48	175.40	175.32	175.28	175.24	175.24	
22	175.30	175.32	176.36	176.58	175.93	177.79	175.46	175.39	175.31	175.28	175.24	175.24	
23	175.27	175.33	175.98	176.24	175.80	180.15	175.47	175.38	175.31	175.28	175.23	175.24	
24	175.26	175.33	175.83	176.06	175.78	181.58	175.47	175.37	175.30	175.27	175.23	175.24	
25	175.25	175.32	175.70	176.02	176.10	178.92	175.46	175.37	175.30	175.27	175.22	175.24	
26	175.30	175.32	175.60	175.90	177.54	177.05	175.46	175.36	175.30	175.27	175.23	175.23	
27	175.30	175.30	175.56	175.85	176.58	176.39	175.45	175.36	175.30	175.26	175.24	175.35	
28	175.28	175.28	175.51	175.75	176.07	176.04	175.46	175.35	175.30	175.26	175.25	175.81	
29	175.51	175.29	175.48	175.75	175.80	175.87	175.46	175.35	175.30	175.26		175.75	
30	175.46	175.30	175.95	175.72	175.74	175.72	175.52	175.34	175.29	175.26		175.75	
31		175.30		175.61	175.66		175.58		175.29	175.26		175.73	
Mean	175.34	175.37	175.85	175.97	176.02	177.16	175.82	175.69	175.32	175.28	175.26	175.31	
Max	175.70	175.72	179.22	178.08	177.54	181.58	178.15	176.87	175.34	175.30	175.32	175.81	181.58
Min	175.25	175.28	175.30	175.39	175.50	175.46	175.45	175.34	175.29	175.26	175.22	175.23	175.22

Annual Max Momentary Gage Height 182.03 M (MSL), at 24.00 Hours, on Sep 23, 1996
Zero Gage at Bottom Elevation 175.27 M (MSL), River Bed 175.20 M (MSL)
Left Bank Elevation 183.68 M (MSL)
Right Bank Elevation 183.66 M (MSL), Drainage Area 163 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.95	0.05	0.05	20.52	0.39	1.50	0.80	8.76	0.03	0.01	0.01	0.01	
2	0.95	0.05	0.16	7.08	0.37	1.55	0.70	4.22	0.03	0.01	0.01	0.01	
3	1.00	0.02	0.16	3.80	0.28	1.65	0.55	2.84	0.03	0.01	0.01	0.00	
4	0.14	0.01	0.06	2.24	0.43	0.95	1.50	3.92	0.03	0.01	0.01	0.00	
5	0.05	0.01	0.03	1.30	2.12	2.78	6.92	4.88	0.03	0.01	0.01	0.00	
6	0.02	0.01	0.02	1.50	2.06	1.30	23.25	7.72	0.04	0.01	0.01	0.01	
7	0.02	0.01	0.02	1.05	1.35	0.85	18.18	3.92	0.04	0.01	0.02	0.01	
8	0.01	0.06	0.01	0.48	0.85	0.55	7.16	1.65	0.04	0.01	0.01	0.01	
9	0.01	0.04	1.40	0.35	0.80	0.43	3.98	1.05	0.03	0.01	0.01	0.00	
10	0.01	0.01	0.30	0.30	1.00	0.32	2.30	0.90	0.03	0.01	0.01	0.00	
11	0.01	0.05	0.30	0.41	0.48	0.20	1.45	0.85	0.04	0.01	0.01	0.00	
12	0.01	1.10	0.20	0.37	0.95	0.90	1.20	0.70	0.04	0.01	0.01	0.00	
13	0.01	0.30	0.24	0.32	2.12	0.85	0.95	0.46	0.03	0.01	0.01	0.00	
14	0.01	0.16	0.55	0.24	8.60	29.20	0.75	0.37	0.03	0.01	0.01	0.00	
15	0.01	0.07	0.37	0.12	12.50	49.00	0.43	0.30	0.02	0.01	0.01	0.00	
16	0.01	0.08	0.26	0.07	4.88	31.60	0.35	0.24	0.02	0.01	0.01	0.00	
17	0.01	0.95	10.00	0.80	2.48	38.32	0.30	0.18	0.02	0.01	0.01	0.00	
18	0.01	0.28	6.52	0.39	1.50	25.85	0.35	0.14	0.02	0.01	0.01	0.00	
19	0.01	0.16	5.40	0.41	2.42	62.20	0.26	0.12	0.02	0.01	0.01	0.00	
20	0.03	0.08	39.80	22.34	10.20	29.50	0.26	0.08	0.02	0.01	0.01	0.00	
21	0.03	0.07	11.40	12.40	4.76	22.99	0.24	0.08	0.02	0.01	0.00	0.00	
22	0.01	0.02	4.76	6.44	2.18	18.57	0.20	0.07	0.02	0.01	0.00	0.00	
23	0.01	0.03	2.48	4.04	1.50	62.50	0.22	0.07	0.02	0.01	0.00	0.00	
24	0.01	0.03	1.65	2.96	1.40	114.30	0.22	0.06	0.01	0.01	0.00	0.00	
25	0.01	0.02	1.00	2.72	3.20	34.36	0.20	0.06	0.01	0.01	0.00	0.00	
26	0.01	0.02	0.50	2.00	15.48	10.50	0.20	0.05	0.01	0.01	0.00	0.00	
27	0.01	0.01	0.41	1.75	6.44	4.94	0.18	0.05	0.01	0.01	0.00	0.05	
28	0.01	0.01	0.30	1.25	3.02	2.84	0.20	0.05	0.01	0.01	0.01	1.55	
29	0.30	0.01	0.24	1.25	1.50	1.85	0.20	0.05	0.01	0.01		1.25	
30	0.20	0.01	2.30	1.10	1.20	1.10	0.32	0.04	0.01	0.01		1.25	
31		0.01		0.55	0.80		0.46		0.01	0.01		1.15	
Total	3.88	3.74	90.89	100.55	97.26	553.45	74.28	43.88	0.73	0.31	0.22	5.30	974.49 CMSDAY
Mean	0.13	0.12	3.03	3.24	3.14	18.45	2.40	1.46	0.02	0.01	0.01	0.17	2.67 CMS
Max	1.00	1.10	39.80	22.34	15.48	114.30	23.25	8.76	0.04	0.01	0.02	1.55	114.30 CMS
Min	0.01	0.01	0.01	0.07	0.28	0.20	0.18	0.04	0.01	0.01	0.00	0.00	0.00 CMS
Runoff	0.335	0.323	7.853	8.688	8.403	47.818	6.418	3.791	0.063	0.027	0.019	0.458	84.196 MCM

Momentary Peak 136.00 CMS, at 182.03 M (MSL), at 24.00 Hours, on Sep 23, 1996

Runoff Yield 16.38 Liters/Second/Square KM, Momentary Peak Yield 834.356 Liters/Second/Square KM

WATER YEAR 1996

CHI RIVER BASIN

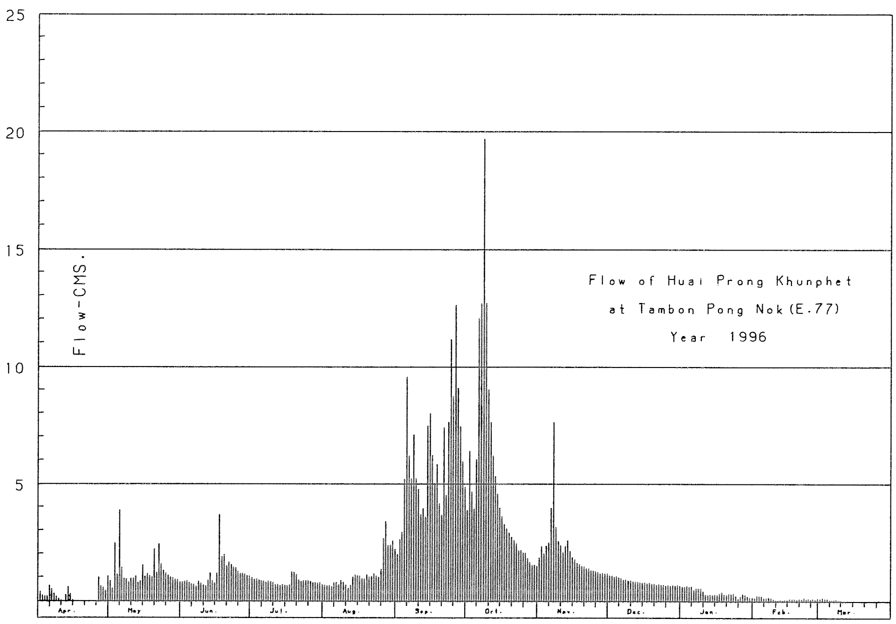
Huai Pong Khon Phet at Ban Thep Sila, Chai Yaphum. (E.77)

Location	Lat. 15°-49'-45" N., Long. 101°-30'-41" E., on right bank at the bridge on Chai Yaphum - Nakhon Sawan road between guidepost 119-120, Amphoe Thep Sathit, Chai Yaphum.
Drainage Area	83 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	+6.358 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1995 to date.
Rating Operation	
Period of Rating	1995 to date.
Rated by Float	-
Rated by Current Meter	1995 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.81	1.04	1.01	1.11	0.95	1.51	1.98	1.47	1.17	0.91	0.67	0.64	
2	0.74	0.88	1.04	1.09	0.95	1.67	2.27	1.59	1.15	0.93	0.72	0.66	
3	0.71	1.63	1.04	1.08	0.94	1.74	2.08	1.52	1.14	0.93	0.73	0.64	
4	0.72	1.19	1.02	1.07	0.93	2.14	1.99	1.60	1.14	0.93	0.71	0.60	
5	0.95	1.98	0.98	1.05	1.01	2.62	2.23	1.63	1.13	0.92	0.67	0.59	
6	0.86	1.32	0.96	1.03	1.00	2.25	2.90	2.00	1.10	0.86	0.65	0.59	
7	0.78	1.10	0.93	1.02	0.97	2.14	2.97	2.41	1.08	0.88	0.69	0.60	
8	0.70	1.08	1.03	1.03	1.05	2.35	3.42	1.80	1.07	0.89	0.66	0.59	
9	0.64	1.02	0.99	1.03	1.02	2.14	2.97	1.65	1.06	0.88	0.62	0.56	
10	0.49	1.09	0.95	1.00	0.95	2.09	2.56	1.60	1.05	0.83	0.58	0.49	
11	0.41	1.09	0.94	0.97	0.88	1.93	2.41	1.53	1.04	0.75	0.55	0.37	
12	0.75	1.15	1.07	0.96	0.96	2.00	2.25	1.59	1.03	0.75	0.55	0.37	
13	0.92	1.01	1.22	0.95	1.12	1.91	2.15	1.66	1.03	0.75	0.55	0.36	
14	0.76	1.03	1.04	0.96	1.18	2.39	2.07	1.54	1.01	0.75	0.55	0.36	
15	0.58	1.38	1.00	0.95	1.16	2.45	2.00	1.48	1.01	0.75	0.57	0.35	
16	0.49	1.15	1.20	0.93	1.14	2.25	1.91	1.45	1.01	0.75	0.61	0.38	
17	0.43	1.19	1.93	0.96	1.10	2.12	1.83	1.42	1.00	0.77	0.63	0.37	
18	0.40	1.16	1.48	1.23	1.08	2.21	1.78	1.40	1.00	0.81	0.61	0.37	
19	0.38	1.12	1.50	1.23	1.18	2.02	1.74	1.37	0.99	0.75	0.61	0.37	
20	0.36	1.56	1.37	1.17	1.12	1.93	1.69	1.35	0.98	0.75	0.61	0.39	
21	0.34	1.23	1.42	1.07	1.13	2.38	1.66	1.32	0.97	0.77	0.62	0.39	
22	0.33	1.62	1.40	1.04	1.21	2.06	1.62	1.31	0.97	0.77	0.66	0.39	
23	0.32	1.40	1.33	1.04	1.14	2.41	1.55	1.28	0.97	0.77	0.63	0.39	
24	0.31	1.27	1.33	1.05	1.13	2.80	1.55	1.26	0.96	0.73	0.63	0.47	
25	0.33	1.20	1.24	1.04	1.29	2.53	1.53	1.26	0.95	0.64	0.62	0.48	
26	1.13	1.16	1.21	1.03	1.68	2.96	1.52	1.23	0.95	0.71	0.61	0.49	
27	0.94	1.13	1.21	1.01	1.86	2.57	1.47	1.21	0.95	0.77	0.61	0.49	
28	0.89	1.10	1.18	1.00	1.60	2.39	1.42	1.21	0.95	0.74	0.64	0.50	
29	0.84	1.08	1.16	1.00	1.61	2.22	1.39	1.21	0.95	0.72		0.50	
30	1.14	1.06	1.14	1.00	1.65	2.10	1.38	1.20	0.95	0.68		0.51	
31		1.03		0.97	1.56		1.37		0.95	0.66		0.51	
Mean	0.65	1.21	1.18	1.03	1.18	2.21	1.99	1.48	1.02	0.79	0.63	0.48	
Max	1.14	1.98	1.93	1.23	1.86	2.96	3.42	2.41	1.17	0.93	0.73	0.66	3.42
Min	0.31	0.88	0.93	0.93	0.88	1.51	1.37	1.20	0.95	0.64	0.55	0.35	0.31

Annual Max Momentary Gage Height 3.84 M (A.D), at 22.00 Hours, on Oct 8, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.16 M (A.D)
Left Bank Elevation 8.48 M (A.D)
Right Bank Elevation 8.48 M (A.D), Drainage Area 83 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.88	0.82	1.02	0.70	2.04	3.92	1.88	1.14	0.62	0.17	0.14	
2	0.28	0.56	0.88	0.98	0.70	2.68	6.43	2.36	1.10	0.66	0.24	0.16	
3	0.22	2.52	0.88	0.96	0.68	2.96	4.72	2.08	1.08	0.66	0.26	0.14	
4	0.24	1.18	0.84	0.94	0.66	5.26	3.96	2.40	1.08	0.66	0.22	0.10	
5	0.70	3.92	0.76	0.90	0.82	9.58	6.07	2.52	1.06	0.64	0.17	0.09	
6	0.52	1.44	0.72	0.86	0.80	6.25	12.10	4.00	1.00	0.52	0.15	0.09	
7	0.36	1.00	0.66	0.84	0.74	5.26	12.73	7.69	0.96	0.56	0.19	0.10	
8	0.20	0.96	0.86	0.86	0.90	7.15	19.72	3.20	0.94	0.58	0.16	0.09	
9	0.14	0.84	0.78	0.86	0.84	5.26	12.73	2.60	0.92	0.56	0.12	0.08	
10	0.05	0.98	0.70	0.80	0.70	4.81	9.04	2.40	0.90	0.46	0.09	0.05	
11	0.02	0.98	0.68	0.74	0.56	3.72	7.69	2.12	0.88	0.30	0.08	0.01	
12	0.30	1.10	0.94	0.72	0.72	4.00	6.25	2.36	0.86	0.30	0.08	0.01	
13	0.64	0.82	1.24	0.70	1.04	3.64	5.35	2.64	0.86	0.30	0.08	0.01	
14	0.32	0.86	0.88	0.72	1.16	7.51	4.63	2.16	0.82	0.30	0.08	0.01	
15	0.09	1.56	0.80	0.70	1.12	8.05	4.00	1.92	0.82	0.30	0.09	0.01	
16	0.05	1.10	1.20	0.66	1.08	6.25	3.64	1.80	0.82	0.30	0.11	0.02	
17	0.03	1.18	3.72	0.72	1.00	5.08	3.32	1.68	0.80	0.34	0.13	0.01	
18	0.02	1.12	1.92	1.26	0.96	5.89	3.12	1.60	0.80	0.42	0.11	0.01	
19	0.02	1.04	2.00	1.26	1.16	4.18	2.96	1.54	0.78	0.30	0.11	0.01	
20	0.01	2.24	1.54	1.14	1.04	3.72	2.76	1.50	0.76	0.30	0.11	0.02	
21	0.01	1.26	1.68	0.94	1.06	7.42	2.64	1.44	0.74	0.34	0.12	0.02	
22	0.01	2.48	1.60	0.88	1.22	4.54	2.48	1.42	0.74	0.34	0.16	0.02	
23	0.00	1.60	1.46	0.88	1.08	7.69	2.20	1.36	0.74	0.34	0.13	0.02	
24	0.00	1.34	1.46	0.90	1.06	11.20	2.20	1.32	0.72	0.26	0.13	0.04	
25	0.01	1.20	1.28	0.88	1.38	8.77	2.12	1.32	0.70	0.14	0.12	0.04	
26	1.06	1.12	1.22	0.86	2.72	12.64	2.08	1.26	0.70	0.22	0.11	0.05	
27	0.68	1.06	1.22	0.82	3.44	9.13	1.88	1.22	0.70	0.34	0.11	0.05	
28	0.58	1.00	1.16	0.80	2.40	7.51	1.68	1.22	0.70	0.28	0.14	0.05	
29	0.48	0.96	1.12	0.80	2.44	5.98	1.58	1.22	0.70	0.24		0.05	
30	1.08	0.92	1.08	0.80	2.60	4.90	1.56	1.20	0.70	0.18		0.05	
31		0.86		0.74	2.24		1.54		0.70	0.16		0.05	
Total	8.54	40.08	36.10	26.94	39.02	183.07	157.10	63.43	26.22	11.92	3.77	1.60	597.79 CMSDAY
Mean	0.28	1.29	1.20	0.87	1.26	6.10	5.07	2.11	0.85	0.38	0.13	0.05	1.64 CMS
Max	1.08	3.92	3.72	1.26	3.44	12.64	19.72	7.69	1.14	0.66	0.26	0.16	19.72 CMS
Min	0.00	0.56	0.66	0.66	0.56	2.04	1.54	1.20	0.70	0.14	0.08	0.01	0.00 CMS
Runoff	0.738	3.463	3.119	2.328	3.371	15.817	13.573	5.480	2.265	1.030	0.326	0.138	51.649 MCM

Momentary Peak 26.44 CMS, at 3.84 M (A.D), at 22.00 Hours, on Oct 8, 1996
Runoff Yield 19.73 Liters/Second/Square KM, Momentary Peak Yield 318.554 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

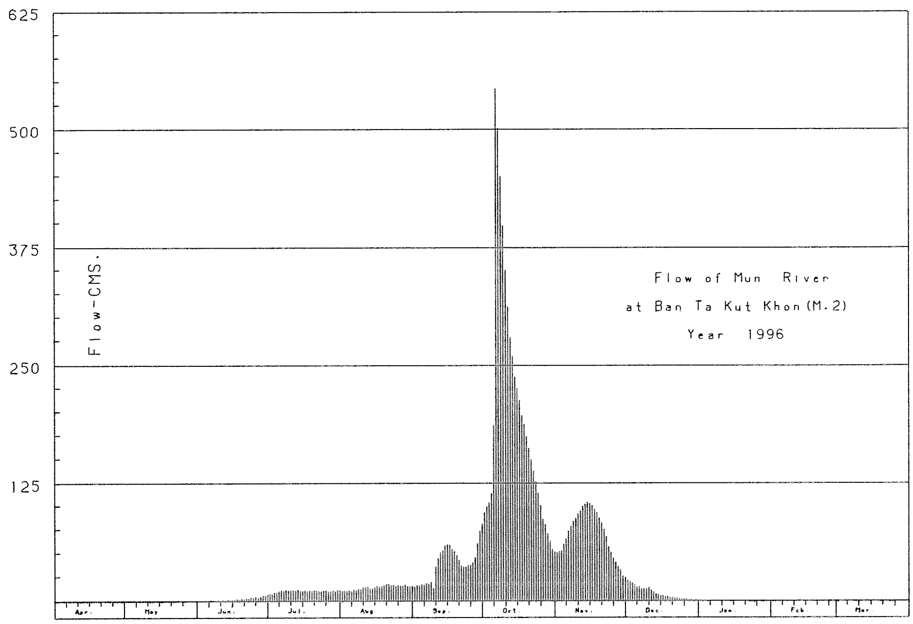
Mun River at Ban Ta Kut Khon, Nakhon Ratchasima (M.2)

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	Overbank flow starts at elevation +163.55 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by the rubber weir during Apr.1-Jul.5, Dec.15-Mar.31,97 discharge estimated by recession equation. Stage-discharge relation defined by 32 measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	162.03	161.90	162.11	161.57	162.18	162.48	164.76	163.33	161.79	162.20	162.09	162.09	
2	162.04	161.90	162.11	161.79	162.14	162.52	164.91	163.35	161.65	162.20	162.08	162.08	
3	162.08	161.90	162.10	162.04	162.18	162.56	165.00	163.42	161.57	162.19	162.07	162.08	
4	162.13	161.90	162.09	162.20	162.17	162.59	165.17	163.65	161.44	162.19	162.06	162.08	
5	162.17	161.95	162.09	162.15	162.15	162.62	165.96	163.85	161.29	162.18	162.05	162.08	
6	162.18	162.01	162.10	162.16	162.21	162.66	166.99	164.10	161.31	162.17	162.05	162.08	
7	162.16	162.06	162.11	162.17	162.23	162.68	166.93	164.31	161.17	162.17	162.05	162.09	
8	162.11	162.11	162.13	162.18	162.26	162.75	166.85	164.45	161.11	162.17	162.08	162.10	
9	162.11	162.13	162.13	162.18	162.28	162.35	166.74	164.59	161.16	162.17	162.07	162.09	
10	162.11	162.11	162.16	162.19	162.37	162.53	166.62	164.70	161.22	162.18	162.07	162.09	
11	162.11	162.10	162.18	162.19	162.44	163.02	166.50	164.81	161.09	162.13	162.06	162.09	
12	162.11	162.10	162.22	162.21	162.42	163.31	166.39	164.91	160.90	162.12	162.05	162.09	
13	162.11	162.10	162.27	162.21	162.36	163.44	166.31	164.97	160.79	162.12	162.06	162.08	
14	162.11	162.10	162.38	162.20	162.32	163.60	166.22	165.00	160.73	162.12	162.06	162.08	
15	162.10	162.10	162.47	162.19	162.43	163.65	166.16	164.99	160.68	162.12	162.13	162.07	
16	162.09	162.10	162.51	162.18	162.48	163.61	166.10	164.93	161.02	162.12	162.13	162.07	
17	162.08	162.10	162.51	162.17	162.45	163.49	166.02	164.86	161.94	162.11	162.13	162.07	
18	162.07	162.10	162.50	162.16	162.44	163.36	165.96	164.75	162.24	162.10	162.13	162.07	
19	162.06	162.10	162.52	162.19	162.59	163.18	165.88	164.60	162.24	162.10	162.12	162.08	
20	162.05	162.11	162.10	162.17	162.60	162.89	165.78	164.41	162.21	162.10	162.11	162.08	
21	162.03	162.12	161.76	162.16	162.62	162.64	165.68	164.20	162.20	162.10	162.10	162.08	
22	161.99	162.17	161.19	162.16	162.58	162.55	165.53	163.92	162.20	162.10	162.09	162.09	
23	161.96	162.18	160.99	162.15	162.55	162.57	165.38	163.57	162.19	162.10	162.08	162.11	
24	161.95	162.19	160.78	162.15	162.53	162.62	165.18	163.32	162.16	162.10	162.07	162.12	
25	161.94	162.19	160.62	162.14	162.53	162.67	164.95	163.04	162.16	162.10	162.05	162.13	
26	161.92	162.20	160.64	162.15	162.55	162.78	164.67	162.79	162.14	162.10	162.05	162.13	
27	161.91	162.20	160.55	162.14	162.56	163.08	164.34	162.58	162.13	162.10	162.07	162.12	
28	161.90	162.18	160.34	162.14	162.58	163.69	164.04	162.40	162.12	162.10	162.08	162.09	
29	161.89	162.17	160.52	162.14	162.51	164.11	163.76	162.07	162.13	162.10		162.07	
30	161.89	162.16	160.81	162.18	162.45	164.37	163.48	161.95	162.17	162.09		162.07	
31		162.14		162.19	162.46		163.33		162.20	162.09		162.08	
Mean	162.05	162.09	161.77	162.14	162.41	163.01	165.54	163.93	161.66	162.13	162.08	162.09	
Max	162.18	162.20	162.52	162.21	162.62	164.37	166.99	165.00	162.24	162.20	162.13	162.13	166.99
Min	161.89	161.90	160.34	161.57	162.14	162.35	163.33	161.95	160.68	162.09	162.05	162.07	160.34

Annual Max Momentary Gage Height 166.97 M (MSL), at 12.00 Hours, on Oct 6, 1996
Zero Gage at Bottom Elevation 157.85 M (MSL), River Bed 158.93 M (MSL)
Left Bank Elevation 165.62 M (MSL)
Right Bank Elevation 163.54 M (MSL), Drainage Area 4800 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.4	7.3	11.2	15.7	94.6	52.1	22.8	1.2	0.1	0.0	
2	0.0	0.0	0.5	8.0	10.6	16.3	100.5	52.5	20.7	1.1	0.1	0.0	
3	0.0	0.0	0.5	8.8	11.2	16.9	105.0	54.0	19.6	1.0	0.1	0.0	
4	0.0	0.0	0.6	9.7	11.0	17.3	114.2	60.5	17.6	0.9	0.1	0.0	
5	0.0	0.0	0.6	10.7	10.7	17.8	187.6	66.5	15.3	0.8	0.0	0.0	
6	0.0	0.0	0.7	10.9	11.7	18.4	543.9	74.0	15.6	0.8	0.0	0.0	
7	0.0	0.0	0.7	11.0	11.9	18.7	501.3	80.3	13.5	0.7	0.0	0.0	
8	0.0	0.0	0.8	11.2	12.4	19.7	451.0	84.5	12.7	0.6	0.0	0.0	
9	0.0	0.1	0.9	11.2	12.7	13.8	397.9	88.7	13.4	0.6	0.0	0.0	
10	0.0	0.1	1.0	11.3	14.0	36.1	351.6	92.5	14.3	0.5	0.0	0.0	
11	0.0	0.1	1.1	11.3	15.1	45.9	312.0	96.4	12.3	0.5	0.0	0.0	
12	0.0	0.1	1.2	11.7	14.8	51.7	280.4	100.5	9.5	0.4	0.0	0.0	
13	0.0	0.1	1.3	11.7	13.9	54.5	259.6	103.5	7.8	0.4	0.0	0.0	
14	0.0	0.1	1.4	11.5	13.3	59.0	238.6	105.0	6.9	0.4	0.0	0.0	
15	0.0	0.1	1.6	11.3	14.9	60.5	225.6	104.5	6.2	0.3	0.0	0.0	
16	0.0	0.1	1.7	11.2	15.7	59.3	213.0	101.5	5.6	0.3	0.0	0.0	
17	0.0	0.1	1.9	11.0	15.2	55.8	197.8	98.4	5.1	0.3	0.0	0.0	
18	0.0	0.1	2.1	10.9	15.1	52.7	187.6	94.2	4.7	0.2	0.0	0.0	
19	0.0	0.1	2.3	11.3	17.3	49.1	175.4	89.0	4.2	0.2	0.0	0.0	
20	0.0	0.1	2.6	11.0	17.5	43.3	162.6	83.3	3.8	0.2	0.0	0.0	
21	0.0	0.2	2.8	10.9	17.8	38.3	151.2	77.0	3.5	0.2	0.0	0.0	
22	0.0	0.2	3.1	10.9	17.2	36.5	138.4	68.6	3.2	0.2	0.0	0.0	
23	0.0	0.2	3.4	10.7	16.7	36.9	127.6	58.1	2.9	0.2	0.0	0.0	
24	0.0	0.2	3.7	10.7	16.4	37.9	114.8	51.9	2.6	0.1	0.0	0.0	
25	0.0	0.2	4.1	10.6	16.4	38.9	102.5	46.3	2.4	0.1	0.0	0.0	
26	0.0	0.2	4.5	10.7	16.7	41.1	87.5	41.3	2.2	0.1	0.0	0.0	
27	0.0	0.3	5.0	10.6	16.9	47.1	81.2	37.1	2.0	0.1	0.0	0.0	
28	0.0	0.3	5.5	10.6	17.2	61.7	72.2	33.5	1.8	0.1	0.0	0.0	
29	0.0	0.3	6.0	10.6	16.1	74.3	63.8	27.1	1.6	0.1		0.0	
30	0.0	0.3	6.6	11.2	15.2	82.1	55.5	25.2	1.5	0.1		0.0	
31		0.4		11.3	15.4		52.1		1.3	0.1		0.0	
Total	0.0	4.0	68.6	331.8	452.2	1217.3	6147.0	2148.0	256.6	12.8	0.4	0.0	10638.7 CMSDAY
Mean	0.0	0.1	2.3	10.7	14.6	40.6	198.3	71.6	8.3	0.4	0.0	0.0	29.1 CMS
Max	0.0	0.4	6.6	11.7	17.8	82.1	543.9	105.0	22.8	1.2	0.1	0.0	543.9 CMS
Min	0.0	0.0	0.4	7.3	10.6	13.8	52.1	25.2	1.3	0.1	0.0	0.0	0.0 CMS
Runoff	0.00	0.35	5.93	28.67	39.07	105.17	531.10	185.59	22.17	1.11	0.03	0.00	919.18 MCM

Momentary Peak 529.70 CMS, at 166.97 M (MSL), at 12.00 Hours, on Oct 6, 1996
Runoff Yield 6.07 Liters/Second/Square KM, Momentary Peak Yield 110.354 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

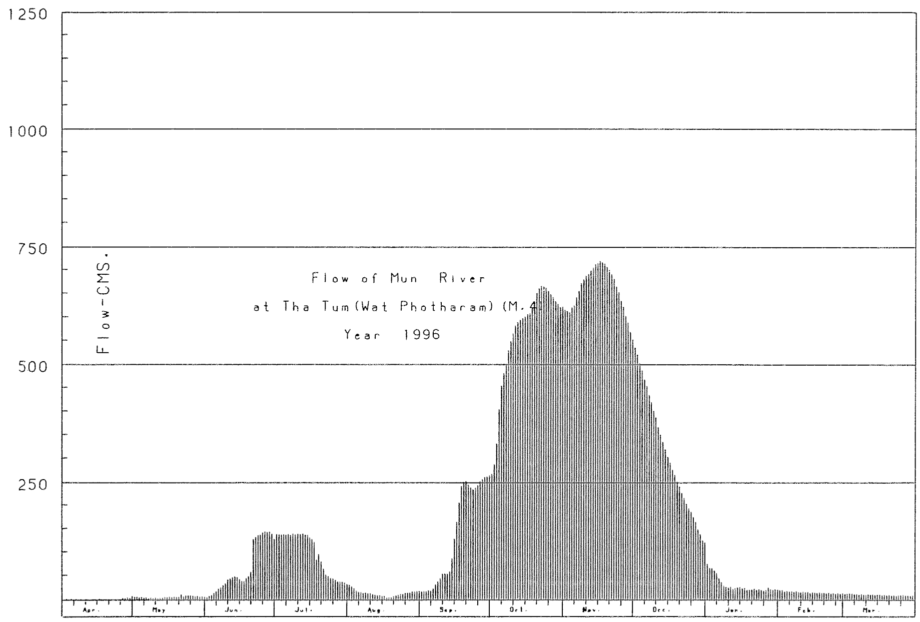
Mun River at Wat Photharam, Surin (M.4)

Location	Lat. 15°19'30" N, Long. 103°40'59" E., on right bank about 500 meters from the bridge, Amphoe Tha Tum, Surin.
Drainage Area	34,654 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+117.00 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On right bank about 5.00 meters from the top staff gage.
Elevation	+126.927 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	1937 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +123.29 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by the dredger sand about 300 meters downstream from the gage site. Stage-discharge relation defined by 80 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.76	118.10	118.07	120.15	118.80	118.47	121.88	124.36	123.89	119.42	118.55	118.31	
2	117.75	118.07	118.13	120.14	118.75	118.45	122.06	124.34	123.79	119.35	118.53	118.30	
3	117.76	118.05	118.24	120.16	118.63	118.47	122.46	124.33	123.68	119.33	118.47	118.34	
4	117.76	118.02	118.35	120.14	118.52	118.50	123.01	124.38	123.57	119.29	118.47	118.31	
5	117.76	117.98	118.47	120.15	118.44	118.51	123.36	124.41	123.45	119.21	118.47	118.30	
6	117.75	117.96	118.60	120.15	118.39	118.59	123.53	124.50	123.35	119.06	118.46	118.28	
7	117.74	117.93	118.69	120.14	118.36	118.83	123.67	124.58	123.23	118.92	118.46	118.27	
8	117.74	117.91	118.77	120.17	118.35	118.93	123.84	124.66	123.12	118.78	118.45	118.27	
9	117.73	117.91	118.88	120.16	118.34	119.05	123.97	124.71	123.00	118.70	118.44	118.27	
10	117.72	117.91	119.00	120.16	118.32	119.17	124.07	124.74	122.89	118.69	118.43	118.26	
11	117.72	117.91	119.05	120.17	118.29	119.20	124.16	124.77	122.74	118.70	118.44	118.25	
12	117.70	117.93	119.07	120.17	118.23	119.18	124.21	124.80	122.61	118.60	118.44	118.26	
13	117.72	117.97	119.12	120.15	118.21	119.26	124.23	124.84	122.49	118.63	118.41	118.25	
14	117.75	118.01	119.08	120.12	118.19	119.51	124.26	124.87	122.35	118.69	118.37	118.24	
15	117.80	118.04	119.03	120.04	118.16	119.99	124.27	124.89	122.22	118.69	118.38	118.24	
16	117.81	118.05	118.95	119.94	118.12	120.59	124.30	124.91	122.10	118.65	118.37	118.24	
17	117.77	118.06	118.96	119.87	118.01	121.18	124.32	124.90	121.97	118.63	118.38	118.23	
18	117.75	118.06	119.04	119.50	117.96	121.58	124.38	124.88	121.85	118.56	118.38	118.23	
19	117.72	118.06	119.12	119.58	118.03	121.70	124.46	124.85	121.71	118.54	118.38	118.22	
20	117.71	118.05	119.24	119.46	118.12	121.70	124.55	124.81	121.58	118.59	118.36	118.21	
21	117.70	118.28	119.98	119.33	118.19	121.63	124.61	124.77	121.44	118.60	118.35	118.21	
22	117.69	118.12	120.06	119.17	118.24	121.55	124.63	124.71	121.30	118.57	118.37	118.20	
23	117.69	118.17	120.11	119.11	118.27	121.52	124.63	124.63	121.16	118.57	118.35	118.19	
24	117.67	118.20	120.15	119.06	118.30	121.54	124.61	124.56	121.01	118.56	118.34	118.19	
25	117.70	118.17	120.22	119.03	118.33	121.62	124.58	124.47	120.92	118.52	118.33	118.23	
26	117.86	118.15	120.26	118.99	118.35	121.70	124.54	124.39	120.75	118.53	118.33	118.22	
27	117.91	118.14	120.26	118.95	118.39	121.76	124.50	124.29	120.58	118.69	118.33	118.21	
28	117.95	118.14	120.24	118.93	118.44	121.79	124.46	124.20	120.34	118.57	118.32	118.18	
29	117.95	118.10	120.18	118.94	118.47	121.82	124.42	124.09	120.13	118.57		118.18	
30	118.12	118.08	119.98	118.89	118.47	121.83	124.39	123.99	119.92	118.57		118.18	
31		118.06		118.85	118.47		124.39		119.81	118.56		118.19	
Mean	117.77	118.05	119.24	119.67	118.33	120.25	124.02	124.59	122.03	118.75	118.41	118.24	
Max	118.12	118.28	120.26	120.17	118.80	121.83	124.63	124.91	123.89	119.42	118.55	118.34	124.91
Min	117.67	117.91	118.07	118.85	117.96	118.45	121.88	123.99	119.81	118.52	118.32	118.18	117.67

Annual Max Momentary Gage Height 124.91 M (MSL), at 6.00 Hours, on Nov 16, 1996
Zero Gage at Bottom Elevation 117.00 M (MSL), River Bed 115.72 M (MSL)
Left Bank Elevation 123.28 M (MSL)
Right Bank Elevation 125.88 M (MSL), Drainage Area 34654 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.4	7.7	7.2	140.3	32.5	19.3	270.0	617.8	538.4	77.4	22.2	14.1	
2	2.3	7.2	8.6	139.7	30.3	18.6	288.6	614.2	522.4	70.0	21.4	13.8	
3	2.4	6.9	11.9	140.8	25.3	19.3	334.2	612.4	505.0	68.0	19.3	15.1	
4	2.4	6.3	15.4	139.7	21.1	20.3	405.4	621.4	488.5	64.2	19.3	14.1	
5	2.4	5.7	19.3	140.3	18.3	20.7	457.0	626.8	470.5	57.8	19.3	13.8	
6	2.3	5.4	24.1	140.3	16.7	23.7	482.5	643.0	455.5	47.6	19.0	13.2	
7	2.1	5.0	27.8	139.7	15.7	33.8	503.5	658.2	437.5	38.3	19.0	12.9	
8	2.1	4.7	31.2	141.3	15.4	39.0	530.4	673.4	421.0	31.6	18.6	12.9	
9	2.0	4.7	36.1	140.8	15.1	46.9	551.2	682.9	404.0	28.2	18.3	12.9	
10	1.8	4.7	43.6	140.8	14.4	55.0	567.9	688.6	388.7	27.8	18.0	12.6	
11	1.8	4.7	46.9	141.3	13.5	57.0	583.2	694.3	369.2	28.2	18.3	12.3	
12	1.5	5.0	48.2	141.3	11.6	55.6	591.7	700.0	352.3	24.1	18.3	12.6	
13	1.8	5.6	51.6	140.3	11.0	61.8	595.1	707.6	337.8	25.3	17.3	12.3	
14	2.3	6.2	48.9	138.6	10.4	88.3	600.2	713.3	321.0	27.8	16.0	11.9	
15	3.0	6.7	45.6	134.2	9.5	131.4	601.9	717.1	306.2	27.8	16.4	11.9	
16	3.1	6.9	40.3	128.7	8.3	166.3	607.0	720.9	293.0	26.2	16.0	11.9	
17	2.5	7.0	41.0	124.9	6.2	208.4	610.6	719.0	279.0	25.3	16.4	11.6	
18	2.3	7.0	46.2	87.0	5.4	242.2	621.4	715.2	267.0	22.6	16.4	11.6	
19	1.8	7.0	51.6	97.4	6.5	253.0	635.8	709.5	253.9	21.8	16.4	11.3	
20	1.7	6.9	60.2	82.2	8.3	253.0	652.5	701.9	242.2	23.7	15.7	11.0	
21	1.5	13.2	130.9	68.0	10.4	246.7	663.9	694.3	229.6	24.1	15.4	11.0	
22	1.4	8.3	135.3	55.0	11.9	239.5	667.7	682.9	218.0	23.0	16.0	10.7	
23	1.4	9.8	138.0	50.9	12.9	236.8	667.7	667.7	206.8	23.0	15.4	10.4	
24	1.0	10.7	140.3	47.6	13.8	238.6	663.9	654.4	195.7	22.6	15.1	10.4	
25	1.5	9.8	144.1	45.6	14.8	245.8	658.2	637.6	189.4	21.1	14.8	11.6	
26	3.9	9.2	146.3	42.9	15.4	253.0	650.6	623.2	177.5	21.4	14.8	11.3	
27	4.7	8.9	146.3	40.3	16.7	258.4	643.0	605.3	165.7	27.8	14.8	11.0	
28	5.2	8.9	145.2	39.0	18.3	261.1	635.8	590.0	150.9	23.0	14.4	10.1	
29	5.2	7.7	141.9	39.6	19.3	264.0	628.6	571.3	139.1	23.0		10.1	
30	8.3	7.4	130.9	36.5	19.3	265.0	623.2	554.4	127.6	23.0		10.1	
31		7.0		34.7	19.3		623.2		121.5	22.6		10.4	
Total	78.1	222.2	2104.9	3119.7	467.6	4322.5	17615.9	19818.6	9574.9	1018.3	482.3	370.9	59195.9 CMSDAY
Mean	2.6	7.2	70.2	100.6	15.1	144.1	568.3	660.6	308.9	32.8	17.2	12.0	162.2 CMS
Max	8.3	13.2	146.3	141.3	32.5	265.0	667.7	720.9	538.4	77.4	22.2	15.1	720.9 CMS
Min	1.0	4.7	7.2	34.7	5.4	18.6	270.0	554.4	121.5	21.1	14.4	10.1	1.0 CMS
Runoff	6.75	19.20	181.86	269.54	40.40	373.46	1522.01	1712.33	827.27	87.98	41.67	32.05	5114.53 MCM

Momentary Peak 720.90 CMS, at 124.91 M (MSL), at 6.00 Hours, on Nov 16, 1996
Runoff Yield 4.68 Liters/Second/Square KM, Momentary Peak Yield 20.803 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

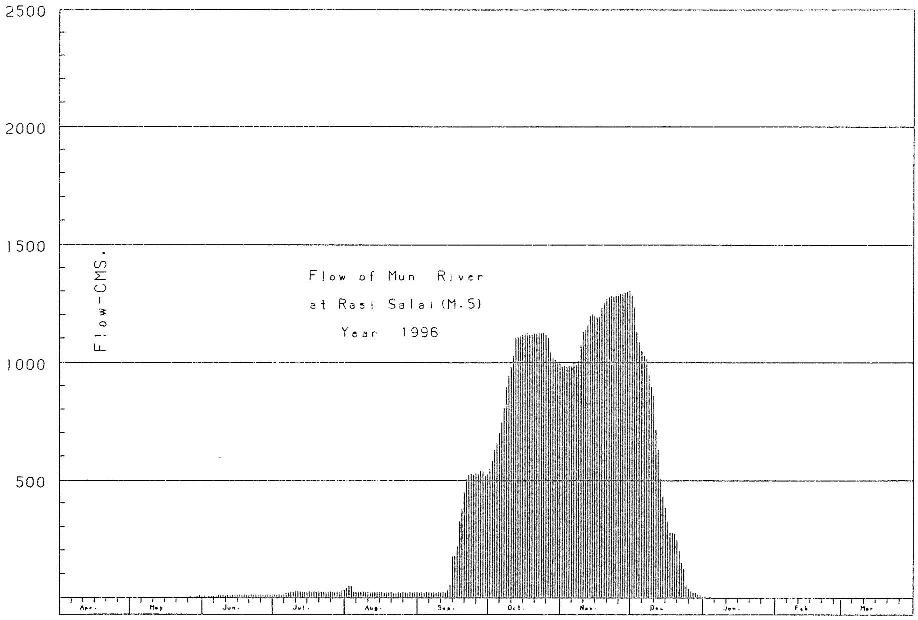
Mun River at Rasi Salai, Si Sa Ket (M.5)

Location	Lat. 15°-20'-16" N., Long. 104°-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.-H.D.
Location	On left bank downstream at the footpath of the bridge.
Elevation	+124.814 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	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 with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +119.30 m.(M.S.L.) and is included.
General Description	Records fair. Flow effected by the weir about 10 kilometers above gage site. Stage-discharge relation defined by 42 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.10	110.06	110.87	111.09	111.84	111.39	116.08	118.25	119.52	110.78	110.07	110.17	
2	110.11	110.05	110.80	111.09	111.98	111.39	116.30	118.25	119.30	110.69	110.13	110.15	
3	110.14	110.05	110.83	111.10	112.01	111.44	116.52	118.24	118.88	110.63	110.15	110.14	
4	110.14	110.04	110.87	111.13	111.58	111.48	116.69	118.24	118.68	110.55	110.09	110.11	
5	110.13	110.04	110.90	111.17	111.50	111.48	116.88	118.25	118.54	110.40	110.53	110.06	
6	110.13	110.05	110.93	111.23	111.49	111.48	117.13	118.30	118.44	110.18	110.14	110.14	
7	110.14	110.05	110.96	111.36	111.49	111.45	117.41	118.28	118.40	110.16	110.20	110.10	
8	110.13	110.08	110.97	111.49	111.48	111.46	117.85	118.34	118.07	110.18	110.20	110.08	
9	110.14	110.09	110.99	111.54	111.48	111.44	118.06	118.65	117.86	110.19	110.21	110.06	
10	110.14	110.11	110.99	111.59	111.45	111.45	118.24	118.86	117.67	110.12	110.21	110.05	
11	110.15	110.12	111.01	111.58	111.45	111.45	118.44	118.90	116.96	110.13	110.24	110.06	
12	110.15	110.13	111.02	111.59	111.46	111.49	118.76	118.99	116.53	110.17	110.36	110.08	
13	110.16	110.14	111.02	111.50	111.49	111.65	118.78	119.16	115.85	110.15	110.39	110.13	
14	110.16	110.11	111.02	111.50	111.47	112.09	118.78	119.17	115.38	110.17	110.39	110.14	
15	110.13	110.13	111.03	111.52	111.47	113.35	118.81	119.16	115.07	110.16	110.35	110.14	
16	110.13	110.14	111.03	111.51	111.44	113.40	118.84	119.12	114.63	110.15	110.24	110.15	
17	110.14	110.14	111.04	111.51	111.43	113.76	118.84	119.13	114.29	110.16	110.16	110.16	
18	110.13	110.15	111.04	111.50	111.41	114.65	118.82	119.28	114.27	110.14	110.10	110.16	
19	110.13	110.14	111.05	111.51	111.44	115.00	118.81	119.38	114.27	110.13	110.12	110.16	
20	110.13	110.15	111.05	111.50	111.42	115.51	118.83	119.44	114.03	110.13	110.13	110.15	
21	110.14	110.15	111.05	111.49	111.41	115.82	118.84	119.49	113.63	110.16	110.08	110.15	
22	110.13	110.15	111.06	111.49	111.40	115.95	118.84	119.50	113.09	110.14	110.09	110.14	
23	110.13	110.19	111.06	111.49	111.40	115.97	118.85	119.50	112.87	110.09	110.07	110.14	
24	110.13	110.32	111.06	111.50	111.40	115.95	118.85	119.50	112.07	110.10	110.09	110.16	
25	110.14	110.46	111.06	111.50	111.40	115.98	118.82	119.51	111.82	110.08	110.09	110.14	
26	110.14	110.55	111.07	111.50	111.39	115.95	118.77	119.54	111.58	110.08	110.12	110.15	
27	110.13	110.68	111.07	111.49	111.40	116.05	118.50	119.54	111.50	110.11	110.15	110.15	
28	110.16	110.80	111.08	111.48	111.45	116.02	118.42	119.56	111.34	110.10	110.16	110.14	
29	110.16	110.87	111.08	111.50	111.45	115.93	118.36	119.58	111.25	110.14		110.15	
30	110.18	110.89	111.08	111.60	111.43	115.94	118.31	119.59	111.03	110.19		110.15	
31		110.90		111.72	111.41		118.34		110.87	110.18		110.15	
Mean	110.14	110.26	111.00	111.44	111.49	113.55	118.19	119.02	115.09	110.22	110.19	110.13	
Max	110.18	110.90	111.08	111.72	112.01	116.05	118.85	119.59	119.52	110.78	110.53	110.17	119.59
Min	110.10	110.04	110.80	111.09	111.39	111.39	116.08	118.24	110.87	110.08	110.07	110.05	110.04

Annual Max Momentary Gage Height 119.59 M (MSL), at 6.00 Hours, on Nov 30, 1996
Zero Gage at Bottom Elevation 110.00 M (MSL), River Bed 109.09 M (MSL)
Left Bank Elevation 121.39 M (MSL)
Right Bank Elevation 119.29 M (MSL), Drainage Area 44275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.0	0.6	9.4	13.8	42.4	22.7	549.6	987.0	1288.8	7.8	0.7	1.7		
2	1.1	0.5	8.0	13.8	50.8	22.7	588.0	987.0	1236.0	6.9	1.3	1.5		
3	1.4	0.5	8.6	14.0	52.8	24.2	629.8	984.8	1135.2	6.3	1.5	1.4		
4	1.4	0.4	9.4	14.9	29.2	25.4	663.0	984.8	1087.2	5.5	0.9	1.1		
5	1.3	0.4	10.0	16.1	26.0	25.4	701.0	987.0	1053.6	4.0	5.3	0.6		
6	1.3	0.5	10.6	17.9	25.7	25.4	751.0	998.0	1029.6	1.8	1.4	1.4		
7	1.4	0.5	11.2	21.8	25.7	24.5	808.1	993.6	1020.0	1.6	2.0	1.0		
8	1.3	0.8	11.4	25.7	25.4	24.8	900.5	1006.8	947.4	1.8	2.0	0.8		
9	1.4	0.9	11.8	27.6	25.4	24.2	945.2	1080.0	902.6	1.9	2.1	0.6		
10	1.4	1.1	11.8	29.6	24.5	24.5	984.8	1130.4	862.7	1.2	2.1	0.5		
11	1.5	1.2	12.2	29.2	24.5	24.5	1029.6	1140.0	717.0	1.3	2.4	0.6		
12	1.5	1.3	12.4	29.6	24.8	25.7	1106.4	1161.6	631.7	1.7	3.6	0.8		
13	1.6	1.4	12.4	26.0	25.7	32.5	1111.2	1202.4	510.5	1.5	3.9	1.3		
14	1.6	1.1	12.4	26.0	25.1	59.2	1111.2	1204.8	433.0	1.7	3.9	1.4		
15	1.3	1.3	12.6	26.8	25.1	176.0	1118.4	1202.4	387.8	1.6	3.5	1.4		
16	1.3	1.4	12.6	26.4	24.2	181.0	1125.6	1192.8	326.2	1.5	2.4	1.5		
17	1.4	1.4	12.8	26.4	23.9	218.6	1125.6	1195.2	281.7	1.6	1.6	1.6		
18	1.3	1.5	12.8	26.0	23.3	329.0	1120.8	1231.2	279.1	1.4	1.0	1.6		
19	1.3	1.4	13.0	26.4	24.2	378.0	1118.4	1255.2	279.1	1.3	1.2	1.6		
20	1.3	1.5	13.0	26.0	23.6	453.6	1123.2	1269.6	249.6	1.3	1.3	1.5		
21	1.4	1.5	13.0	25.7	23.3	505.4	1125.6	1281.6	204.6	1.6	0.8	1.5		
22	1.3	1.5	13.2	25.7	23.0	527.5	1125.6	1284.0	150.0	1.4	0.9	1.4		
23	1.3	1.9	13.2	25.7	23.0	530.9	1128.0	1284.0	128.0	0.9	0.7	1.4		
24	1.3	3.2	13.2	26.0	23.0	527.5	1128.0	1284.0	57.6	1.0	0.9	1.6		
25	1.4	4.6	13.2	26.0	23.0	532.6	1120.8	1286.4	41.2	0.8	0.9	1.4		
26	1.4	5.5	13.4	26.0	22.7	527.5	1108.8	1293.6	29.2	0.8	1.2	1.5		
27	1.3	6.8	13.4	25.7	23.0	544.5	1044.0	1293.6	26.0	1.1	1.5	1.5		
28	1.6	8.0	13.6	25.4	24.5	539.4	1024.8	1298.4	21.2	1.0	1.6	1.4		
29	1.6	9.4	13.6	26.0	24.5	524.1	1011.2	1303.2	18.5	1.4		1.5		
30	1.8	9.8	13.6	30.0	23.9	525.8	1000.2	1305.6	12.6	1.9		1.5		
31		10.0		36.0	23.3		1006.8		9.4	1.8		1.5		
Total	41.5	81.9	361.8	762.2	829.5	7407.1	30435.2	35109.0	15357.1	67.4	52.6	40.1	90545.4	CMSDAY
Mean	1.4	2.6	12.1	24.6	26.8	246.9	981.8	1170.3	495.4	2.2	1.9	1.3	248.1	CMS
Max	1.8	10.0	13.6	36.0	52.8	544.5	1128.0	1305.6	1288.8	7.8	5.3	1.7	1305.6	CMS
Min	1.0	0.4	8.0	13.8	22.7	22.7	549.6	984.8	9.4	0.8	0.7	0.5	0.4	CMS
Runoff	3.59	7.08	31.26	65.85	71.67	639.97	2629.60	3033.42	1326.85	5.82	4.54	3.46	7823.12	MCM

Momentary Peak 1305.60 CMS, at 119.59 M (MSL), at 6.00 Hours, on Nov 30, 1996
Runoff Yield 5.60 Liters/Second/Square KM, Momentary Peak Yield 29.488 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

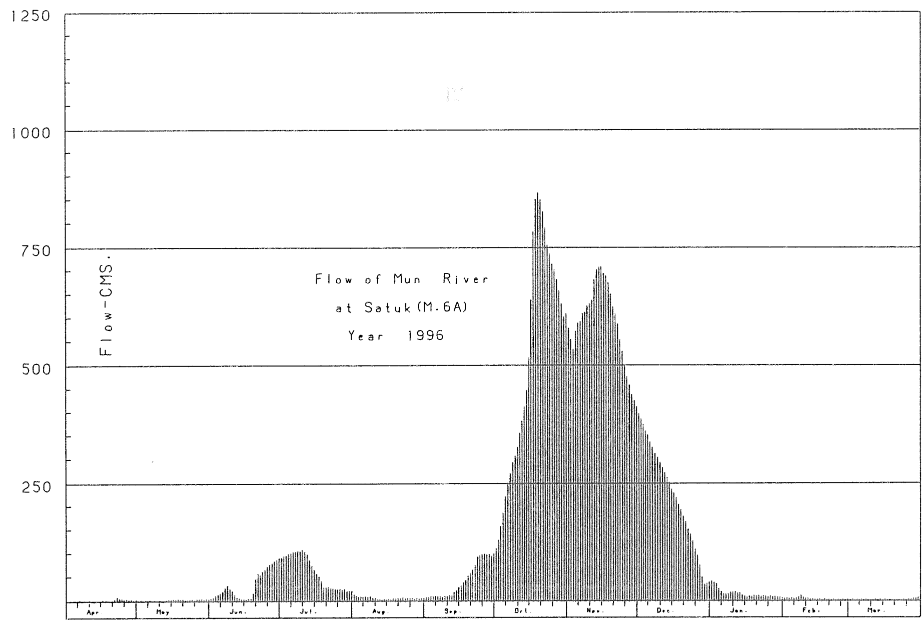
Mun River at Satuk, Buri Ram (M.6A)

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.-H.D.
Location	On right bank at the footpath of the bridge.
Elevation	+133.558 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +130.16 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.47	124.60	124.89	126.89	125.33	125.05	127.16	129.92	129.39	126.05	124.93	124.65	
2	124.47	124.59	125.04	126.93	125.14	125.07	127.39	129.87	129.34	126.02	124.92	124.65	
3	124.47	124.57	125.15	126.96	125.10	125.10	127.71	129.83	129.28	125.91	124.92	124.65	
4	124.47	124.55	125.30	126.99	125.08	125.14	128.00	129.91	129.22	125.72	124.92	124.65	
5	124.49	124.53	125.39	127.03	125.10	125.15	128.29	129.94	129.17	125.47	124.92	124.65	
6	124.48	124.53	125.46	127.05	125.11	125.15	128.53	129.95	129.10	125.34	124.93	124.65	
7	124.48	124.52	125.75	127.07	125.11	125.12	128.67	129.98	129.03	125.30	125.10	124.65	
8	124.48	124.51	125.84	127.08	125.10	125.07	128.84	129.99	128.96	125.35	125.16	124.65	
9	124.48	124.51	125.69	127.10	125.03	125.13	128.92	130.01	128.90	125.43	125.05	124.65	
10	124.48	124.51	125.49	127.11	124.95	125.18	129.04	130.02	128.84	125.46	124.95	124.65	
11	124.48	124.50	125.27	127.08	124.86	125.20	129.19	130.03	128.76	125.45	124.89	124.65	
12	124.47	124.49	125.07	126.98	124.80	125.23	129.32	130.10	128.69	125.40	124.82	124.64	
13	124.46	124.63	124.92	126.82	124.75	125.41	129.45	130.13	128.61	125.36	124.78	124.64	
14	124.47	124.68	124.82	126.63	124.73	125.59	129.59	130.14	128.54	125.26	124.75	124.62	
15	124.49	124.70	124.79	126.51	124.72	125.75	129.79	130.14	128.45	125.12	124.74	124.62	
16	124.48	124.72	124.76	126.38	124.74	125.86	130.03	130.12	128.36	125.08	124.73	124.62	
17	124.48	124.75	124.81	126.25	124.79	125.98	130.25	130.11	128.27	125.09	124.73	124.61	
18	124.48	124.78	124.92	126.09	124.84	126.12	130.34	130.09	128.16	125.12	124.73	124.61	
19	124.48	124.77	125.40	125.73	124.89	126.27	130.36	130.05	128.05	125.16	124.71	124.61	
20	124.47	124.75	126.13	125.80	124.93	126.41	130.34	130.01	127.93	125.18	124.71	124.60	
21	124.81	124.65	126.39	125.76	124.96	126.50	130.31	129.98	127.80	125.18	124.71	124.60	
22	125.05	124.67	126.34	125.74	124.99	126.67	130.26	129.94	127.65	125.16	124.71	124.60	
23	124.95	124.68	126.42	125.70	124.98	126.90	130.21	129.87	127.52	125.15	124.71	124.60	
24	124.85	124.68	126.52	125.68	124.98	126.97	130.18	129.82	127.36	125.15	124.71	124.62	
25	124.77	124.70	126.61	125.68	125.01	127.00	130.15	129.75	127.15	125.13	124.71	124.62	
26	124.74	124.75	126.67	125.66	124.94	127.00	130.13	129.69	126.95	125.12	124.70	124.66	
27	124.69	124.82	126.73	125.65	124.88	126.99	130.10	129.63	126.67	125.10	124.69	124.73	
28	124.66	124.78	126.78	125.64	124.90	126.98	130.06	129.55	126.21	125.08	124.67	124.87	
29	124.64	124.74	126.84	125.56	124.93	126.95	130.02	129.51	125.92	125.05		124.92	
30	124.62	124.80	126.86	125.54	124.94	127.01	129.97	129.45	125.93	125.02		124.91	
31		124.89		125.53	124.98		129.98		126.02	124.96		124.89	
Mean	124.58	124.66	125.70	126.34	124.95	125.93	129.44	129.92	128.07	125.30	124.82	124.67	
Max	125.05	124.89	126.86	127.11	125.33	127.01	130.36	130.14	129.39	126.05	125.16	124.92	130.36
Min	124.46	124.49	124.76	125.53	124.72	125.05	127.16	129.45	125.92	124.96	124.67	124.60	124.46

Annual Max Momentary Gage Height 130.36 M (MSL), at 6.00 Hours, on Oct 19, 1996
Zero Gage at Bottom Elevation 124.00 M (MSL), River Bed 121.07 M (MSL)
Left Bank Elevation 130.15 M (MSL)
Right Bank Elevation 132.99 M (MSL), Drainage Area 28275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.7	3.0	5.9	93.3	15.9	9.0	112.8	580.0	398.9	42.8	6.6	3.5	
2	1.7	2.9	8.8	96.1	11.0	9.4	131.6	555.6	388.4	41.4	6.4	3.5	
3	1.7	2.7	11.3	98.2	10.0	10.0	160.0	536.4	375.8	36.5	6.4	3.5	
4	1.7	2.5	15.0	100.3	9.6	11.0	189.0	575.0	363.2	28.3	6.4	3.5	
5	1.9	2.3	17.7	103.1	10.0	11.3	222.8	590.0	353.3	20.1	6.4	3.5	
6	1.8	2.3	19.8	104.5	10.3	11.3	252.9	595.0	340.0	16.2	6.6	3.5	
7	1.8	2.2	29.5	105.9	10.3	10.5	271.8	610.0	327.4	15.0	10.0	3.5	
8	1.8	2.1	33.3	106.6	10.0	9.4	296.7	615.0	315.6	16.5	11.5	3.5	
9	1.8	2.1	27.2	108.0	8.6	10.7	309.2	626.4	306.0	18.9	9.0	3.5	
10	1.8	2.1	20.7	108.8	7.0	12.0	329.2	632.8	296.7	19.8	7.0	3.5	
11	1.8	2.0	14.2	106.6	5.6	12.5	357.1	639.2	284.7	19.5	5.9	3.5	
12	1.7	1.9	9.4	99.6	5.0	13.3	384.2	684.0	274.6	18.0	5.2	3.4	
13	1.6	3.3	6.4	88.4	4.5	18.3	413.0	703.8	263.4	16.8	4.8	3.4	
14	1.7	3.8	5.2	75.1	4.3	23.7	449.3	710.4	254.2	14.0	4.5	3.2	
15	1.9	4.0	4.9	67.6	4.2	29.5	517.8	710.4	242.7	10.5	4.4	3.2	
16	1.8	4.2	4.6	59.8	4.4	34.2	639.2	697.2	231.5	9.6	4.3	3.2	
17	1.8	4.5	5.1	52.5	4.9	39.6	785.0	690.6	220.4	9.8	4.3	3.1	
18	1.8	4.8	6.4	44.5	5.4	46.0	852.0	677.6	207.2	10.5	4.3	3.1	
19	1.8	4.7	18.0	28.7	5.9	53.5	868.0	652.0	194.5	11.5	4.1	3.1	
20	1.7	4.5	46.5	31.5	6.6	61.6	852.0	626.4	182.0	12.0	4.1	3.0	
21	5.1	3.5	60.4	29.9	7.2	67.0	828.0	610.0	169.0	12.0	4.1	3.0	
22	9.0	3.7	57.4	29.1	7.8	77.9	792.0	590.0	154.5	11.5	4.1	3.0	
23	7.0	3.8	62.2	27.5	7.6	94.0	757.0	555.6	142.8	11.3	4.1	3.0	
24	5.5	3.8	68.2	26.8	7.6	98.9	736.8	531.6	129.1	11.3	4.1	3.2	
25	4.7	4.0	73.7	26.8	8.2	101.0	717.0	501.0	112.0	10.7	4.1	3.2	
26	4.4	4.5	77.9	26.1	6.8	101.0	703.8	477.2	97.5	10.5	4.0	3.6	
27	3.9	5.2	82.1	25.8	5.8	100.3	684.0	460.4	77.9	10.0	3.9	4.3	
28	3.6	4.8	85.6	25.4	6.0	99.6	658.4	438.5	50.5	9.6	3.7	5.7	
29	3.4	4.4	89.8	22.8	6.6	97.5	632.8	427.7	36.9	9.0		6.4	
30	3.2	5.0	91.2	22.2	6.8	101.7	605.0	413.0	37.3	8.4		6.2	
31		5.9		21.9	7.6		610.0		41.4	7.2		5.9	
Total	85.1	110.5	1058.4	1963.4	231.5	1375.7	16118.4	17712.8	6869.4	499.2	154.3	114.7	46293.4 CMSDAY
Mean	2.8	3.6	35.3	63.3	7.5	45.9	519.9	590.4	221.6	16.1	5.5	3.7	126.8 CMS
Max	9.0	5.9	91.2	108.8	15.9	101.7	868.0	710.4	398.9	42.8	11.5	6.4	868.0 CMS
Min	1.6	1.9	4.6	21.9	4.2	9.0	112.8	413.0	36.9	7.2	3.7	3.0	1.6 CMS
Runoff	7.35	9.55	91.45	169.64	20.00	118.86	1392.63	1530.39	593.52	43.13	13.33	9.91	3999.75 MCM

Momentary Peak 868.00 CMS, at 130.36 M (MSL), at 6.00 Hours, on Oct 19, 1996
Runoff Yield 4.49 Liters/Second/Square KM, Momentary Peak Yield 30.698 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

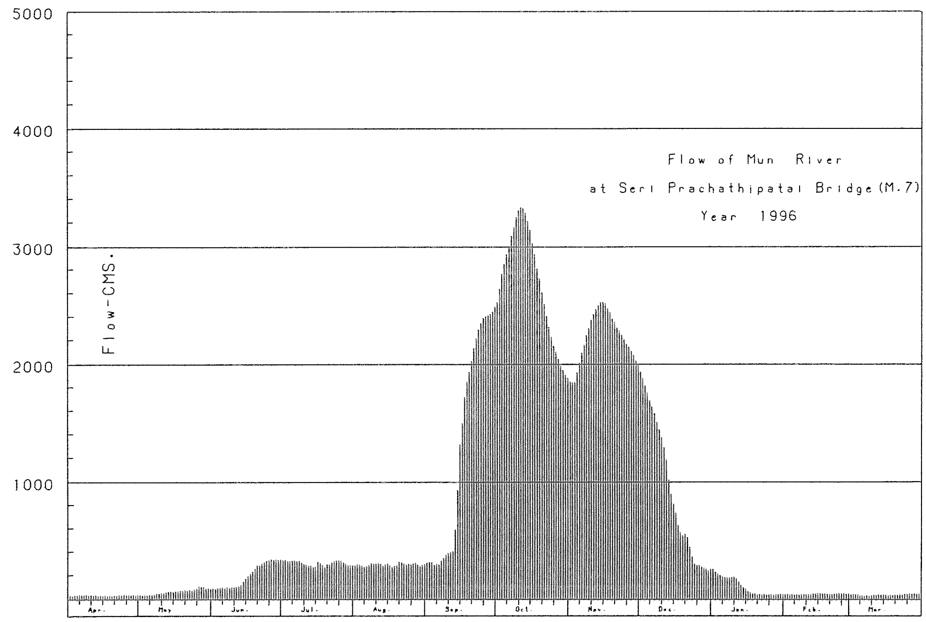
Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)

Location	Lat. 15°-13′-17″ N., Long. 104°-51′-39″ E., on left bank at Seri Prachathipatai Bridge, 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	+117.645 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	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.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The old bridge s abutment situated above gage site. Stage-discharge relation defined by 60 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.63	106.70	107.16	108.24	108.09	108.15	112.19	111.22	111.35	107.96	106.77	106.79	
2	106.66	106.68	107.16	108.23	108.12	108.19	112.35	111.20	111.26	107.88	106.77	106.78	
3	106.66	106.68	107.18	108.22	108.12	108.17	112.51	111.21	111.17	107.80	106.76	106.77	
4	106.69	106.68	107.22	108.20	108.07	108.11	112.63	111.33	111.07	107.76	106.75	106.74	
5	106.71	106.69	107.21	108.23	108.04	108.12	112.73	111.47	110.97	107.70	106.75	106.70	
6	106.73	106.73	107.20	108.22	108.04	108.12	112.82	111.59	110.88	107.70	106.75	106.67	
7	106.73	106.77	107.21	108.22	108.10	108.21	112.91	111.70	110.79	107.68	106.75	106.65	
8	106.72	106.80	107.22	108.21	108.13	108.30	113.00	111.81	110.66	107.68	106.76	106.65	
9	106.71	106.83	107.23	108.17	108.14	108.38	113.09	111.90	110.56	107.68	106.79	106.66	
10	106.70	106.86	107.25	108.14	108.13	108.43	113.16	111.99	110.44	107.71	106.78	106.69	
11	106.69	106.88	107.25	108.10	108.16	108.44	113.18	112.06	110.31	107.64	106.77	106.71	
12	106.68	106.93	107.30	108.08	108.12	108.47	113.18	112.11	110.12	107.53	106.78	106.73	
13	106.65	107.00	107.36	108.07	108.08	108.90	113.13	112.16	109.81	107.36	106.81	106.74	
14	106.65	106.98	107.53	108.04	108.10	109.63	113.06	112.19	109.56	107.25	106.83	106.75	
15	106.65	106.98	107.62	108.03	108.15	110.34	112.97	112.20	109.40	107.16	106.85	106.73	
16	106.64	106.99	107.71	108.18	108.08	110.65	112.85	112.18	109.22	107.03	106.85	106.71	
17	106.64	107.01	107.81	108.17	108.03	111.01	112.73	112.13	109.00	106.93	106.84	106.70	
18	106.64	107.03	107.86	108.09	108.05	111.22	112.58	112.08	108.85	106.85	106.82	106.69	
19	106.64	107.05	107.98	108.03	108.09	111.34	112.46	112.01	108.80	106.83	106.81	106.70	
20	106.65	107.06	108.08	108.11	108.18	111.49	112.31	111.97	108.82	106.77	106.78	106.71	
21	106.67	107.06	108.09	108.12	108.18	111.65	112.17	111.91	108.77	106.76	106.77	106.72	
22	106.69	107.07	108.13	108.16	108.13	111.78	112.04	111.87	108.56	106.75	106.79	106.73	
23	106.70	107.07	108.19	108.22	108.12	111.88	111.91	111.82	108.35	106.75	106.82	106.74	
24	106.70	107.09	108.21	108.22	108.12	111.96	111.80	111.76	108.13	106.75	106.84	106.77	
25	106.70	107.19	108.24	108.24	108.12	112.02	111.69	111.71	108.10	106.75	106.85	106.81	
26	106.70	107.28	108.25	108.21	108.13	112.03	111.60	111.67	108.09	106.75	106.84	106.83	
27	106.70	107.27	108.25	108.17	108.17	112.05	111.52	111.62	108.05	106.73	106.82	106.83	
28	106.69	107.23	108.25	108.12	108.09	112.06	111.42	111.56	108.00	106.75	106.80	106.82	
29	106.69	107.17	108.25	108.09	108.06	112.09	111.37	111.49	107.98	106.77		106.81	
30	106.70	107.16	108.25	108.07	108.09	112.14	111.30	111.43	107.90	106.78		106.81	
31		107.16		108.07	108.13		111.26		107.97	106.78		106.85	
Mean	106.68	106.97	107.69	108.15	108.11	110.11	112.38	111.78	109.45	107.20	106.80	106.74	
Max	106.73	107.28	108.25	108.24	108.18	112.14	113.18	112.20	111.35	107.96	106.85	106.85	113.18
Min	106.63	106.68	107.16	108.03	108.03	108.11	111.26	111.20	107.90	106.73	106.75	106.65	106.63

Annual Max Momentary Gage Height 113.18 M (MSL), at 6.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation 105.00 M (MSL), River Bed 100.73 M (MSL)
Left Bank Elevation 116.68 M (MSL)
Right Bank Elevation 116.84 M (MSL), Drainage Area 106673 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.0	40.0	94.0	337.0	292.5	310.0	2527.5	1858.0	1942.5	260.0	47.0	49.0	
2	36.0	38.0	94.0	334.0	301.0	322.0	2647.5	1845.0	1884.0	240.0	47.0	48.0	
3	36.0	38.0	97.0	331.0	301.0	316.0	2767.5	1851.5	1825.5	220.0	46.0	47.0	
4	39.0	38.0	103.0	325.0	287.5	298.0	2857.5	1929.5	1760.5	210.0	45.0	44.0	
5	41.0	39.0	101.5	334.0	280.0	301.0	2934.0	2020.5	1697.0	195.0	45.0	40.0	
6	43.0	43.0	100.0	331.0	280.0	301.0	3008.0	2098.5	1643.0	195.0	45.0	37.0	
7	43.0	47.0	101.5	331.0	295.0	328.0	3089.0	2170.0	1589.0	190.0	45.0	35.0	
8	42.0	50.0	103.0	328.0	304.0	355.0	3170.0	2247.0	1511.0	190.0	46.0	35.0	
9	41.0	53.0	104.5	316.0	307.0	379.0	3251.0	2310.0	1451.0	190.0	49.0	36.0	
10	40.0	56.0	107.5	307.0	304.0	397.0	3314.0	2377.5	1379.0	197.5	48.0	39.0	
11	39.0	58.0	107.5	295.0	313.0	401.0	3332.0	2430.0	1301.0	180.0	47.0	41.0	
12	38.0	63.0	115.0	290.0	301.0	413.0	3332.0	2467.5	1191.0	156.0	48.0	43.0	
13	35.0	70.0	124.0	287.5	290.0	595.0	3287.0	2505.0	1025.0	124.0	51.0	44.0	
14	35.0	68.0	156.0	280.0	295.0	935.0	3224.0	2527.5	900.0	107.5	53.0	45.0	
15	35.0	68.0	175.0	277.5	310.0	1319.0	3143.0	2535.0	820.0	94.0	55.0	43.0	
16	34.0	69.0	197.5	319.0	290.0	1505.0	3035.0	2520.0	739.0	74.5	55.0	41.0	
17	34.0	71.5	222.5	316.0	277.5	1721.5	2934.0	2482.5	640.0	63.0	54.0	40.0	
18	34.0	74.5	235.0	292.5	282.5	1858.0	2820.0	2445.0	572.5	55.0	52.0	39.0	
19	34.0	77.5	265.0	277.5	292.5	1936.0	2730.0	2392.5	550.0	53.0	51.0	40.0	
20	35.0	79.0	290.0	298.0	319.0	2033.5	2617.5	2362.5	559.0	47.0	48.0	41.0	
21	37.0	79.0	292.5	301.0	319.0	2137.5	2512.5	2317.5	536.5	46.0	47.0	42.0	
22	39.0	80.5	304.0	313.0	304.0	2226.0	2415.0	2289.0	449.0	45.0	49.0	43.0	
23	40.0	80.5	322.0	331.0	301.0	2296.0	2317.5	2254.0	370.0	45.0	52.0	44.0	
24	40.0	83.5	328.0	331.0	301.0	2355.0	2240.0	2212.0	304.0	45.0	54.0	47.0	
25	40.0	98.5	337.0	337.0	301.0	2400.0	2163.5	2177.0	295.0	45.0	55.0	51.0	
26	40.0	112.0	340.0	328.0	304.0	2407.5	2105.0	2150.5	292.5	45.0	54.0	53.0	
27	40.0	110.5	340.0	316.0	316.0	2422.5	2053.0	2118.0	282.5	43.0	52.0	53.0	
28	39.0	104.5	340.0	301.0	292.5	2430.0	1988.0	2079.0	270.0	45.0	50.0	52.0	
29	39.0	95.5	340.0	292.5	285.0	2452.5	1955.5	2033.5	265.0	47.0		51.0	
30	40.0	94.0	340.0	287.5	292.5	2490.0	1910.0	1994.5	245.0	48.0		51.0	
31		94.0		287.5	304.0		1884.0		262.5	48.0		55.0	
Total	1141.0	2173.0	6177.0	9632.5	9242.5	39641.0	83564.5	67000.0	28552.0	3543.5	1390.0	1369.0	253426.0 CMSDAY
Mean	38.0	70.1	205.9	310.7	298.1	1321.4	2695.6	2233.3	921.0	114.3	49.6	44.2	694.3 CMS
Max	43.0	112.0	340.0	337.0	319.0	2490.0	3332.0	2535.0	1942.5	260.0	55.0	55.0	3332.0 CMS
Min	33.0	38.0	94.0	277.5	277.5	298.0	1884.0	1845.0	245.0	43.0	45.0	35.0	33.0 CMS
Runoff	98.58	187.75	533.69	832.25	798.55	3424.98	7219.97	5788.80	2466.89	306.16	120.10	118.28	21896.01 MCM

Momentary Peak 3332.00 CMS, at 113.18 M (MSL), at 6.00 Hours, on Oct 11, 1996
Runoff Yield 6.51 Liters/Second/Square KM, Momentary Peak Yield 31.236 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

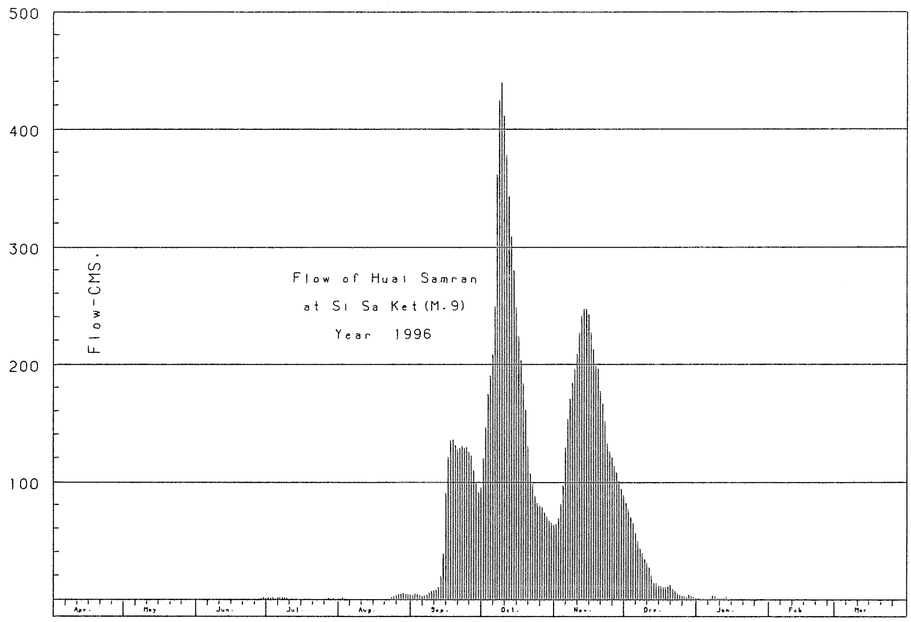
Huai Samran at Muang, Si Sa Ket (M.9)

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 top staff gage.
Elevation	+122.055 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1954, 1972 - 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	Overbank flow starts at elevation + 118.56 m.(M.S.L.) and is included.
General Description	Records fair. Flow effected by Mun River about 20 kilometers downstream. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.22	109.20	109.18	109.83	109.71	110.38	117.12	115.44	116.06	109.75	109.43	109.24	
2	109.21	109.20	109.18	109.84	109.80	110.57	117.76	115.63	115.88	109.73	109.39	109.23	
3	109.23	109.20	109.19	109.87	109.72	110.53	118.39	116.01	115.65	109.70	109.44	109.25	
4	109.24	109.21	109.19	109.77	109.64	110.28	118.72	116.51	115.48	109.69	109.41	109.25	
5	109.23	109.21	109.18	109.84	109.51	110.17	119.09	117.33	115.21	109.70	109.46	109.24	
6	109.22	109.20	109.19	109.85	109.29	110.18	119.82	117.93	114.96	109.80	109.43	109.26	
7	109.21	109.19	109.19	109.84	109.29	110.49	121.08	118.29	114.70	110.24	109.50	109.35	
8	109.21	109.19	109.18	109.82	109.25	110.79	121.46	118.60	114.49	110.28	109.56	109.36	
9	109.22	109.19	109.21	109.76	109.29	111.22	121.53	118.82	114.23	109.84	109.54	109.38	
10	109.22	109.20	109.24	109.66	109.31	111.30	121.40	119.10	114.01	109.67	109.52	109.35	
11	109.22	109.19	109.19	109.63	109.47	111.49	121.20	119.44	113.68	109.64	109.51	109.32	
12	109.22	109.20	109.18	109.58	109.42	111.80	120.93	119.68	112.98	109.88	109.51	109.25	
13	109.21	109.19	109.19	109.55	109.21	112.94	120.59	119.78	112.37	110.06	109.52	109.24	
14	109.21	109.19	109.21	109.49	109.32	114.47	120.25	119.79	112.33	109.57	109.39	109.22	
15	109.21	109.18	109.20	109.48	109.38	116.33	119.80	119.71	112.16	109.54	109.35	109.23	
16	109.20	109.17	109.19	109.53	109.38	117.13	119.39	119.45	112.05	109.56	109.47	109.24	
17	109.20	109.18	109.18	109.51	109.37	117.49	118.99	119.18	111.89	109.56	109.34	109.25	
18	109.20	109.18	109.19	109.49	109.32	117.51	118.58	118.89	111.85	109.53	109.28	109.25	
19	109.21	109.18	109.21	109.47	109.22	117.39	118.10	118.85	112.09	109.51	109.26	109.23	
20	109.25	109.37	109.20	109.45	109.21	117.29	117.36	118.44	112.18	109.52	109.43	109.24	
21	109.23	109.25	109.23	109.46	109.20	117.33	116.80	118.22	111.66	109.50	109.45	109.24	
22	109.20	109.20	109.23	109.48	109.29	117.36	116.54	117.89	111.23	109.49	109.80	109.23	
23	109.20	109.55	109.44	109.50	110.03	117.34	116.25	117.44	110.84	109.48	109.40	109.23	
24	109.20	109.54	109.45	109.52	110.14	117.34	116.04	117.26	110.41	109.47	109.27	109.22	
25	109.20	109.59	109.53	109.65	110.33	117.25	115.98	117.14	110.24	109.45	109.27	109.22	
26	109.19	109.23	109.58	109.69	110.57	117.16	115.92	116.94	110.10	109.44	109.21	109.22	
27	109.19	109.19	109.62	109.68	110.65	116.86	115.79	116.81	110.02	109.42	109.18	109.23	
28	109.19	109.18	109.78	109.70	110.71	116.55	115.66	116.61	110.38	109.42	109.19	109.27	
29	109.25	109.19	109.85	109.64	110.64	116.35	115.56	116.43	110.31	109.40		109.25	
30	109.20	109.18	109.84	109.52	110.49	116.45	115.48	116.27	109.92	109.40		109.23	
31		109.18		109.52	110.45		115.44		109.85	109.43		109.25	
Mean	109.21	109.24	109.31	109.63	109.70	114.32	118.29	117.93	112.56	109.63	109.41	109.26	
Max	109.25	109.59	109.85	109.87	110.71	117.51	121.53	119.79	116.06	110.28	109.80	109.38	121.53
Min	109.19	109.17	109.18	109.45	109.20	110.17	115.44	115.44	109.85	109.40	109.18	109.22	109.17

Annual Max Momentary Gage Height 121.57 M (MSL), at 17.00 Hours, on Oct 8, 1996
Zero Gage at Bottom Elevation 109.00 M (MSL), River Bed 109.06 M (MSL)
Left Bank Elevation 118.55 M (MSL)
Right Bank Elevation 121.01 M (MSL), Drainage Area 3026 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.40	0.38	2.02	1.54	4.22	120.80	64.20	82.80	1.70	0.63	0.44	
2	0.41	0.40	0.38	2.06	1.90	4.98	146.40	69.90	77.40	1.62	0.59	0.43	
3	0.43	0.40	0.39	2.18	1.58	4.82	175.21	81.30	70.50	1.50	0.64	0.45	
4	0.44	0.41	0.39	1.78	1.26	3.82	190.50	97.35	65.40	1.46	0.61	0.45	
5	0.43	0.41	0.38	2.06	0.74	3.38	209.00	129.20	57.30	1.50	0.66	0.44	
6	0.42	0.40	0.39	2.10	0.49	3.42	249.90	153.99	50.00	1.90	0.63	0.46	
7	0.41	0.39	0.39	2.06	0.49	4.66	361.60	170.59	44.00	3.66	0.70	0.55	
8	0.41	0.39	0.38	1.98	0.45	5.86	424.60	184.89	39.80	3.82	0.94	0.56	
9	0.42	0.39	0.41	1.74	0.49	7.60	440.20	195.50	34.95	2.06	0.86	0.58	
10	0.42	0.40	0.44	1.34	0.51	8.00	412.00	209.50	31.65	1.38	0.78	0.55	
11	0.42	0.39	0.39	1.22	0.67	8.95	378.00	226.90	27.80	1.26	0.74	0.52	
12	0.42	0.40	0.38	1.02	0.62	10.50	343.60	241.30	20.80	2.22	0.74	0.45	
13	0.41	0.39	0.39	0.90	0.41	20.40	309.05	247.30	14.70	2.94	0.78	0.44	
14	0.41	0.39	0.41	0.69	0.52	39.40	280.50	247.90	14.30	0.98	0.59	0.42	
15	0.41	0.38	0.40	0.68	0.58	91.05	248.50	243.10	12.60	0.86	0.55	0.43	
16	0.40	0.37	0.39	0.82	0.58	121.20	224.00	227.50	11.75	0.94	0.67	0.44	
17	0.40	0.38	0.38	0.74	0.57	135.60	204.00	213.50	10.95	0.94	0.54	0.45	
18	0.40	0.38	0.39	0.69	0.52	136.40	183.97	199.00	10.75	0.82	0.48	0.45	
19	0.41	0.38	0.41	0.67	0.42	131.60	161.83	197.00	11.95	0.74	0.46	0.43	
20	0.45	0.57	0.40	0.65	0.41	127.60	130.40	177.51	12.80	0.78	0.63	0.44	
21	0.43	0.45	0.43	0.66	0.40	129.20	108.00	167.37	9.80	0.70	0.65	0.44	
22	0.40	0.40	0.43	0.68	0.49	130.40	98.40	152.15	7.65	0.69	1.90	0.43	
23	0.40	0.90	0.64	0.70	2.82	129.60	88.50	133.60	6.06	0.68	0.60	0.43	
24	0.40	0.86	0.65	0.78	3.26	129.60	82.20	126.40	4.34	0.67	0.47	0.42	
25	0.40	1.06	0.82	1.30	4.02	126.00	80.40	121.60	3.66	0.65	0.47	0.42	
26	0.39	0.43	1.02	1.46	4.98	122.40	78.60	113.60	3.10	0.64	0.41	0.42	
27	0.39	0.39	1.18	1.42	5.30	110.40	74.70	108.40	2.78	0.62	0.38	0.43	
28	0.39	0.38	1.82	1.50	5.54	98.75	70.80	100.85	4.22	0.62	0.39	0.47	
29	0.45	0.39	2.10	1.26	5.26	91.75	67.80	94.55	3.94	0.60		0.45	
30	0.40	0.38	2.06	0.78	4.66	95.25	65.40	89.10	2.38	0.60		0.43	
31		0.38		0.78	4.50		64.20		2.10	0.63		0.45	
Total	12.39	14.04	19.02	38.72	55.98	2036.81	6073.06	4785.05	752.23	40.18	18.49	14.17	13860.14 CMSDAY
Mean	0.41	0.45	0.63	1.25	1.81	67.89	195.91	159.50	24.27	1.30	0.66	0.46	37.97 CMS
Max	0.45	1.06	2.10	2.18	5.54	136.40	440.20	247.90	82.80	3.82	1.90	0.58	440.20 CMS
Min	0.39	0.37	0.38	0.65	0.40	3.38	64.20	64.20	2.10	0.60	0.38	0.42	0.37 CMS
Runoff	1.070	1.213	1.643	3.345	4.837	175.980	524.712	413.428	64.993	3.472	1.598	1.224	1197.516 MCM

Momentary Peak 449.80 CMS, at 121.57 M (MSL), at 17.00 Hours, on Oct 8, 1996

Runoff Yield 12.55 Liters/Second/Square KM, Momentary Peak Yield 148.645 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

Lam Chi at Ban Lam Chi, Surin (M.26)

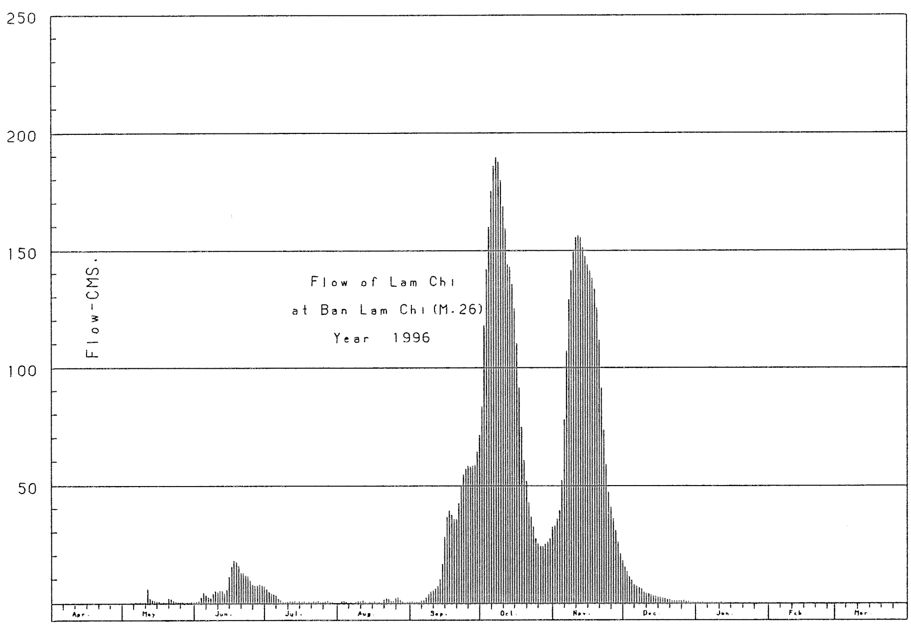
Location Lat. 14°54'03" N., Long. 103°24'21" E., on left bank at railway bridge, Ban Lam Chi, Amphoe Muang, Surin.

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +135.08 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by the local weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 69 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	127.51	127.53	127.76	128.72	127.64	127.78	134.07	131.13	129.68	127.74	127.54	127.45	
2	127.52	127.51	127.80	128.58	127.75	127.74	135.24	131.36	129.49	127.73	127.55	127.46	
3	127.52	127.53	128.16	128.45	127.84	127.74	135.88	131.65	129.32	127.73	127.48	127.46	
4	127.53	127.56	128.50	128.42	127.75	127.74	136.29	132.49	129.16	127.71	127.46	127.46	
5	127.53	127.55	128.34	128.29	127.62	127.84	136.60	133.85	129.00	127.70	127.46	127.46	
6	127.54	127.66	128.12	128.06	127.65	127.92	136.81	134.91	128.92	127.70	127.46	127.46	
7	127.54	127.67	128.07	127.88	127.61	128.10	136.88	135.56	128.87	127.69	127.45	127.46	
8	127.49	127.66	128.48	127.77	127.68	128.43	136.84	135.87	128.76	127.67	127.46	127.46	
9	127.47	127.66	128.60	127.80	127.84	128.58	136.69	136.08	128.58	127.67	127.48	127.46	
10	127.47	127.66	128.57	127.77	127.79	128.67	136.47	136.20	128.47	127.67	127.46	127.57	
11	127.48	128.75	128.65	127.78	127.91	128.75	136.28	136.22	128.49	127.70	127.46	127.60	
12	127.50	128.05	128.64	127.81	127.72	128.93	135.93	136.20	128.37	127.62	127.46	127.51	
13	127.51	127.89	128.44	127.81	127.65	129.18	135.90	136.11	128.29	127.58	127.46	127.46	
14	127.51	127.84	128.71	127.76	127.67	129.78	135.72	136.01	128.25	127.63	127.46	127.56	
15	127.49	127.79	129.28	127.77	127.71	130.72	135.45	135.93	128.19	127.69	127.45	127.57	
16	127.48	127.74	129.69	127.78	127.76	131.44	135.01	135.86	128.15	127.64	127.45	127.58	
17	127.49	127.68	129.88	127.77	127.69	131.63	134.38	135.78	128.13	127.60	127.45	127.56	
18	127.46	127.68	129.84	127.72	127.66	131.51	133.70	135.67	128.06	127.62	127.44	127.53	
19	127.45	127.71	129.70	127.72	127.70	131.34	132.99	135.46	127.97	127.55	127.44	127.48	
20	127.45	128.06	129.47	127.73	127.92	131.37	132.48	135.07	127.97	127.55	127.44	127.50	
21	127.45	128.02	129.43	127.75	128.08	131.83	131.86	134.39	127.90	127.55	127.44	127.57	
22	127.44	127.86	129.35	127.80	127.98	132.33	131.45	133.65	127.85	127.55	127.45	127.55	
23	127.43	127.74	129.31	127.81	127.86	132.64	131.08	132.90	127.89	127.54	127.45	127.50	
24	127.43	127.72	129.16	127.74	127.81	132.80	130.69	132.17	127.86	127.59	127.45	127.50	
25	127.43	127.72	129.00	127.74	128.08	132.86	130.48	131.75	127.89	127.56	127.44	127.51	
26	127.47	127.68	128.92	127.82	128.13	132.85	130.41	131.38	127.88	127.49	127.44	127.53	
27	127.48	127.64	128.95	127.83	127.94	132.86	130.40	130.97	127.84	127.47	127.44	127.57	
28	127.46	127.68	128.97	127.76	127.72	132.89	130.47	130.55	127.82	127.46	127.44	127.55	
29	127.47	127.70	128.95	127.68	127.68	133.17	130.56	130.15	127.74	127.45		127.49	
30	127.54	127.74	128.88	127.66	127.67	133.53	130.66	129.89	127.74	127.46		127.46	
31		127.76		127.65	127.77		131.07		127.73	127.47		127.46	
Mean	127.48	127.76	128.85	127.89	127.78	130.43	133.83	133.84	128.33	127.61	127.46	127.51	
Max	127.54	128.75	129.88	128.72	128.13	133.53	136.88	136.22	129.68	127.74	127.55	127.60	136.88
Min	127.43	127.51	127.76	127.65	127.61	127.74	130.40	129.89	127.73	127.45	127.44	127.45	127.43

Annual Max Momentary Gage Height 136.89 M (MSL), at 17.00 Hours, on Oct 7, 1996
Zero Gage at Bottom Elevation 127.00 M (MSL), River Bed 127.11 M (MSL)
Left Bank Elevation 136.20 M (MSL)
Right Bank Elevation 135.07 M (MSL), Drainage Area 2927 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.26	0.88	6.04	0.52	0.94	83.75	33.16	15.76	0.82	0.28	0.10	
2	0.24	0.22	1.00	5.06	0.85	0.82	117.90	35.92	13.59	0.79	0.30	0.12	
3	0.24	0.26	2.80	4.25	1.20	0.82	142.20	39.75	11.72	0.79	0.16	0.12	
4	0.26	0.32	4.50	4.10	0.85	0.82	160.00	52.35	9.96	0.73	0.12	0.12	
5	0.26	0.30	3.70	3.45	0.46	1.20	175.50	78.25	8.30	0.70	0.12	0.12	
6	0.28	0.58	2.60	2.30	0.55	1.60	186.05	107.30	7.50	0.70	0.12	0.12	
7	0.28	0.61	2.35	1.40	0.43	2.50	189.90	129.40	7.09	0.67	0.10	0.12	
8	0.18	0.58	4.40	0.91	0.64	4.15	187.70	141.80	6.32	0.61	0.12	0.12	
9	0.14	0.58	5.20	1.00	1.20	5.06	180.00	150.20	5.06	0.61	0.16	0.12	
10	0.14	0.58	4.99	0.91	0.97	5.69	169.00	155.50	4.35	0.61	0.12	0.34	
11	0.16	6.25	5.55	0.94	1.55	6.25	159.50	156.50	4.45	0.70	0.12	0.40	
12	0.20	2.25	5.48	1.05	0.76	7.60	144.20	155.50	3.85	0.46	0.12	0.22	
13	0.22	1.45	4.20	1.05	0.55	10.18	143.00	151.45	3.45	0.36	0.12	0.12	
14	0.22	1.20	5.97	0.88	0.61	16.96	135.80	147.40	3.25	0.49	0.12	0.32	
15	0.18	0.97	11.28	0.91	0.73	28.24	125.25	144.20	2.95	0.67	0.10	0.34	
16	0.16	0.82	15.88	0.94	0.88	36.92	110.30	141.40	2.75	0.52	0.10	0.36	
17	0.18	0.64	18.16	0.91	0.67	39.45	91.50	138.20	2.65	0.40	0.10	0.32	
18	0.12	0.64	17.68	0.76	0.58	37.83	75.00	133.80	2.30	0.46	0.08	0.26	
19	0.10	0.73	16.00	0.76	0.70	35.68	60.81	125.60	1.85	0.30	0.08	0.16	
20	0.10	2.30	13.37	0.79	1.60	36.04	52.20	112.10	1.85	0.30	0.08	0.20	
21	0.10	2.10	12.93	0.85	2.40	42.45	42.90	91.75	1.50	0.30	0.08	0.34	
22	0.08	1.30	12.05	1.00	1.90	49.95	37.05	74.00	1.25	0.30	0.10	0.30	
23	0.06	0.82	11.61	1.05	1.30	54.68	32.56	59.10	1.45	0.28	0.10	0.20	
24	0.06	0.76	9.96	0.82	1.05	57.40	27.88	47.55	1.30	0.38	0.10	0.20	
25	0.06	0.76	8.30	0.82	2.40	58.42	25.36	41.25	1.45	0.32	0.08	0.22	
26	0.14	0.64	7.50	1.10	2.65	58.25	24.52	36.16	1.40	0.18	0.08	0.26	
27	0.16	0.52	7.80	1.15	1.70	58.42	24.40	31.24	1.20	0.14	0.08	0.34	
28	0.12	0.64	8.00	0.88	0.76	58.93	25.24	26.20	1.10	0.12	0.08	0.30	
29	0.14	0.70	7.80	0.64	0.64	64.40	26.32	21.40	0.82	0.10		0.18	
30	0.28	0.82	7.16	0.58	0.61	71.60	27.52	18.28	0.82	0.12		0.12	
31		0.88		0.55	0.91		32.44		0.79	0.14		0.12	
Total	5.08	31.48	239.10	47.85	32.62	853.25	3015.75	2776.71	132.08	14.07	3.32	6.68	7157.99 CMSDAY
Mean	0.17	1.02	7.97	1.54	1.05	28.44	97.28	92.56	4.26	0.45	0.12	0.22	19.61 CMS
Max	0.28	6.25	18.16	6.04	2.65	71.60	189.90	156.50	15.76	0.82	0.30	0.40	189.90 CMS
Min	0.06	0.22	0.88	0.55	0.43	0.82	24.40	18.28	0.79	0.10	0.08	0.10	0.06 CMS
Runoff	0.439	2.720	20.658	4.134	2.818	73.721	260.561	239.908	11.412	1.216	0.287	0.577	618.450 MCM

Momentary Peak 190.45 CMS, at 136.89 M (MSL), at 17.00 Hours, on Oct 7, 1996
Runoff Yield 6.70 Liters/Second/Square KM, Momentary Peak Yield 65.067 Liters/Second/Square KM

WATER YEAR 1996

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 Huai Thap Than, 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 left bank at the footpath of the bridge.
Elevation	+11.591 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	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	Fairly stable with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +7.49 m.(A.D.), records are channel flow only.
General Description	Records fair. Flow effected by the local weir about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

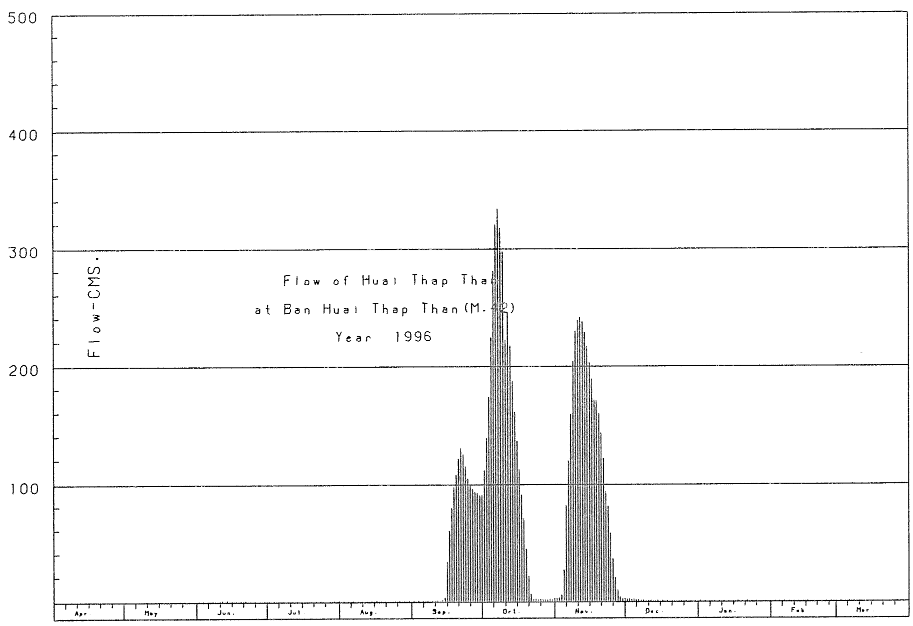
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.73	3.00	3.31	3.32	3.36	3.40	8.13	3.70	3.61	3.36	3.32	3.31	
2	2.71	3.02	3.30	3.32	3.34	3.41	8.52	3.74	3.60	3.36	3.32	3.31	
3	2.70	3.02	3.38	3.36	3.34	3.41	8.90	4.02	3.58	3.36	3.32	3.31	
4	2.68	3.02	3.36	3.33	3.34	3.42	9.36	5.30	3.58	3.35	3.32	3.31	
5	2.65	3.03	3.35	3.32	3.36	3.41	9.79	7.45	3.54	3.35	3.32	3.31	
6	2.64	3.03	3.35	3.32	3.36	3.42	10.05	8.26	3.50	3.35	3.32	3.31	
7	2.63	3.04	3.41	3.32	3.34	3.41	10.14	8.75	3.50	3.35	3.32	3.32	
8	2.63	3.03	3.34	3.32	3.34	3.41	10.03	9.18	3.47	3.35	3.35	3.35	
9	2.63	3.06	3.33	3.32	3.34	3.41	9.90	9.40	3.45	3.33	3.39	3.36	
10	2.60	3.13	3.39	3.32	3.33	3.40	9.34	9.48	3.45	3.33	3.38	3.33	
11	2.59	3.14	3.45	3.32	3.33	3.45	9.53	9.50	3.45	3.33	3.35	3.32	
12	2.58	3.15	3.44	3.32	3.33	3.45	9.30	9.47	3.43	3.33	3.34	3.31	
13	3.09	3.18	3.43	3.31	3.33	3.51	9.03	9.39	3.42	3.33	3.34	3.30	
14	3.14	3.20	3.42	3.31	3.35	3.78	8.77	9.29	3.42	3.33	3.34	3.30	
15	3.22	3.20	3.41	3.30	3.34	5.62	8.49	9.17	3.42	3.33	3.33	3.32	
16	3.24	3.19	3.41	3.30	3.34	6.74	8.14	9.04	3.42	3.33	3.32	3.31	
17	3.24	3.19	3.38	3.33	3.34	7.39	7.71	8.88	3.41	3.34	3.32	3.31	
18	3.23	3.18	3.41	3.33	3.33	7.87	7.11	8.87	3.41	3.34	3.32	3.31	
19	2.95	3.21	3.41	3.36	3.36	8.07	6.09	8.76	3.40	3.34	3.31	3.30	
20	2.97	3.24	3.41	3.36	3.36	8.28	5.01	8.57	3.39	3.34	3.31	3.30	
21	2.97	3.32	3.38	3.40	3.36	8.41	4.04	8.29	3.38	3.34	3.31	3.30	
22	2.96	3.31	3.37	3.39	3.36	8.34	3.62	7.77	3.38	3.33	3.31	3.30	
23	2.96	3.30	3.38	3.38	3.36	8.19	3.60	7.43	3.38	3.33	3.31	3.29	
24	2.95	3.30	3.37	3.38	3.35	8.02	3.58	6.65	3.37	3.33	3.31	3.28	
25	2.94	3.29	3.35	3.38	3.37	7.90	3.59	5.73	3.36	3.33	3.31	3.34	
26	2.94	3.28	3.35	3.38	3.37	7.84	3.57	4.93	3.36	3.33	3.31	3.34	
27	2.94	3.27	3.35	3.37	3.36	7.77	3.57	4.30	3.36	3.33	3.31	3.30	
28	2.94	3.27	3.35	3.37	3.36	7.74	3.56	3.79	3.36	3.32	3.31	3.30	
29	2.94	3.26	3.34	3.37	3.36	7.70	3.59	3.66	3.38	3.32		3.30	
30	2.98	3.31	3.33	3.37	3.38	7.69	3.58	3.65	3.38	3.32		3.30	
31		3.31		3.36	3.36		3.69		3.37	3.32		3.32	
Mean	2.88	3.18	3.38	3.34	3.35	5.73	6.88	7.21	3.44	3.34	3.33	3.31	
Max	3.24	3.32	3.45	3.40	3.38	8.41	10.14	9.50	3.61	3.36	3.39	3.36	10.14
Min	2.58	3.00	3.30	3.30	3.33	3.40	3.56	3.65	3.36	3.32	3.31	3.28	2.58

Annual Max Momentary Gage Height 10.18 M (A.D), at 9.00 Hours, on Oct 7, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.29 M (A.D)

Left Bank Elevation 7.48 M (A.D)

Right Bank Elevation 8.24 M (A.D), Drainage Area 1794 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.6	0.7	0.8	1.0	111.8	3.0	2.3	0.8	0.7	0.6	
2	0.0	0.0	0.6	0.7	0.8	1.0	139.6	3.4	2.2	0.8	0.7	0.6	
3	0.0	0.0	0.9	0.8	0.8	1.0	174.0	6.2	2.0	0.8	0.7	0.6	
4	0.0	0.0	0.8	0.7	0.8	1.1	225.2	27.4	2.0	0.8	0.7	0.6	
5	0.0	0.0	0.8	0.7	0.8	1.0	281.6	82.4	1.7	0.8	0.7	0.6	
6	0.0	0.0	0.8	0.7	0.8	1.1	320.5	120.2	1.4	0.8	0.7	0.6	
7	0.0	0.0	1.0	0.7	0.8	1.0	334.4	159.5	1.4	0.8	0.7	0.7	
8	0.0	0.0	0.8	0.7	0.8	1.0	317.5	204.8	1.3	0.8	0.8	0.8	
9	0.0	0.0	0.7	0.7	0.8	1.0	298.0	230.0	1.2	0.7	1.0	0.8	
10	0.0	0.1	1.0	0.7	0.7	1.0	222.8	239.6	1.2	0.7	0.9	0.7	
11	0.0	0.1	1.2	0.7	0.7	1.2	245.9	242.0	1.2	0.7	0.8	0.7	
12	0.0	0.1	1.2	0.7	0.7	1.2	218.0	238.4	1.1	0.7	0.8	0.6	
13	0.0	0.2	1.1	0.6	0.7	1.5	188.3	228.8	1.1	0.7	0.8	0.6	
14	0.1	0.2	1.1	0.6	0.8	3.8	161.3	216.9	1.1	0.7	0.8	0.6	
15	0.3	0.2	1.0	0.6	0.8	34.4	137.2	203.7	1.1	0.7	0.7	0.7	
16	0.4	0.2	1.0	0.6	0.8	60.4	112.4	189.4	1.1	0.7	0.7	0.6	
17	0.4	0.2	0.9	0.7	0.8	80.4	91.4	172.0	1.0	0.8	0.7	0.6	
18	0.3	0.2	1.0	0.7	0.7	97.6	70.8	171.0	1.0	0.8	0.7	0.6	
19	0.0	0.2	1.0	0.8	0.8	108.2	45.2	160.4	1.0	0.8	0.6	0.6	
20	0.0	0.4	1.0	0.8	0.8	121.6	21.8	143.6	1.0	0.8	0.6	0.6	
21	0.0	0.7	0.9	1.0	0.8	130.8	6.4	122.3	0.9	0.8	0.6	0.6	
22	0.0	0.6	0.9	1.0	0.8	125.8	2.4	93.7	0.9	0.7	0.6	0.6	
23	0.0	0.6	0.9	0.9	0.8	115.4	2.2	81.7	0.9	0.7	0.6	0.6	
24	0.0	0.6	0.9	0.9	0.8	105.2	2.0	58.2	0.9	0.7	0.6	0.5	
25	0.0	0.6	0.8	0.9	0.9	98.8	2.1	36.9	0.8	0.7	0.6	0.8	
26	0.0	0.5	0.8	0.9	0.9	96.4	2.0	20.3	0.8	0.7	0.6	0.8	
27	0.0	0.5	0.8	0.9	0.8	93.7	2.0	10.2	0.8	0.7	0.6	0.6	
28	0.0	0.5	0.8	0.9	0.8	92.5	1.9	3.9	0.8	0.7	0.6	0.6	
29	0.0	0.4	0.8	0.9	0.8	91.0	2.1	2.7	0.9	0.7		0.6	
30	0.0	0.6	0.7	0.9	0.9	90.7	2.0	2.6	0.9	0.7		0.6	
31		0.6		0.8	0.8		2.9		0.9	0.7		0.7	
Total	1.5	8.3	26.8	23.9	24.6	1560.8	3745.7	3475.2	36.9	23.0	19.6	19.8	8966.1 CMSDAY
Mean	0.1	0.3	0.9	0.8	0.8	52.0	120.8	115.8	1.2	0.7	0.7	0.6	24.6 CMS
Max	0.4	0.7	1.2	1.0	0.9	130.8	334.4	242.0	2.3	0.8	1.0	0.8	334.4 CMS
Min	0.0	0.0	0.6	0.6	0.7	1.0	1.9	2.6	0.8	0.7	0.6	0.5	0.0 CMS
Runoff	0.13	0.72	2.32	2.06	2.13	134.85	323.63	300.26	3.19	1.99	1.69	1.71	774.67 MCM

Momentary Peak 340.80 CMS, at 10.18 M (A.D), at 9.00 Hours, on Oct 7, 1996
Runoff Yield 13.69 Liters/Second/Square KM, Momentary Peak Yield 189.967 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

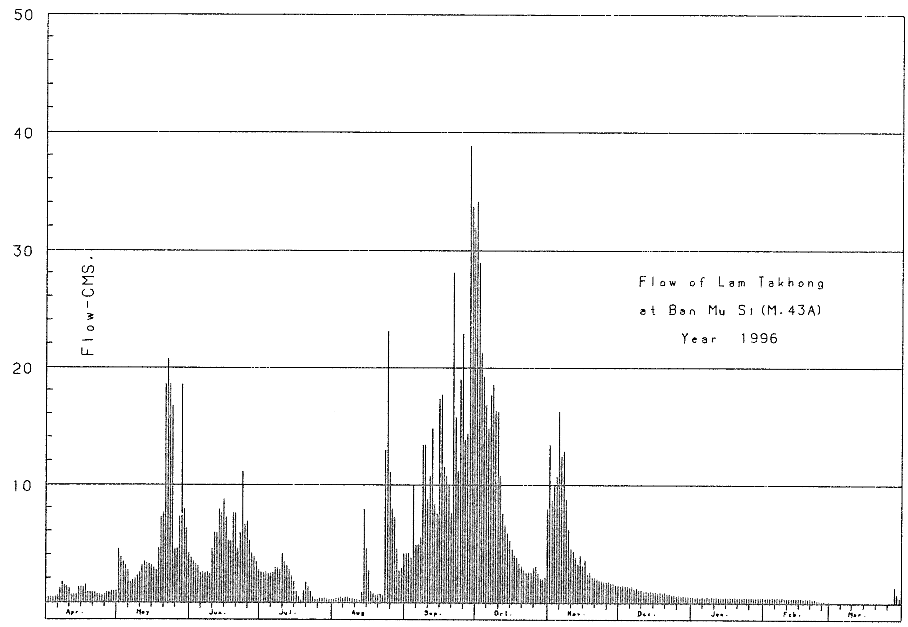
Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima (M.43A)

Location	Lat. 14°-30'-43" N., Long. 101°-22'-49" E., on left bank about 2 kilometers downstream from M.43, Amphoe Pak Chong, Nakhon Ratchasima.
Drainage Area	237 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 footpath of the bridge.
Elevation	+6.135 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	1989 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Rather unstable with variable water slope and some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.40	0.00	-0.04	-0.12	-0.46	-0.02	0.94	0.23	-0.24	-0.40	-0.41	-0.55	
2	-0.40	-0.04	-0.06	-0.12	-0.44	-0.02	0.80	0.12	-0.24	-0.40	-0.41	-0.57	
3	-0.40	-0.06	-0.07	-0.12	-0.42	-0.04	0.52	0.15	-0.24	-0.40	-0.41	-0.58	
4	-0.40	-0.08	-0.08	-0.13	-0.40	0.15	0.43	0.17	-0.25	-0.40	-0.41	-0.60	
5	-0.37	-0.10	-0.12	-0.13	-0.43	0.01	0.30	0.29	-0.25	-0.40	-0.41	-0.60	
6	-0.27	-0.20	-0.12	-0.12	-0.40	0.01	0.26	0.21	-0.25	-0.40	-0.41	-0.60	
7	-0.20	-0.19	-0.12	-0.09	-0.40	0.03	0.35	0.22	-0.27	-0.40	-0.41	-0.60	
8	-0.24	-0.17	-0.12	-0.09	-0.42	0.23	0.40	0.12	-0.27	-0.40	-0.41	-0.60	
9	-0.25	-0.15	-0.13	-0.10	-0.45	0.23	0.29	0.05	-0.28	-0.40	-0.42	-0.60	
10	-0.27	-0.12	0.00	-0.02	-0.46	0.12	0.29	0.00	-0.29	-0.40	-0.42	-0.58	
11	-0.36	-0.08	0.04	-0.06	-0.47	0.17	0.17	-0.01	-0.30	-0.40	-0.43	-0.58	
12	-0.36	-0.06	0.04	-0.08	-0.48	0.26	0.09	-0.04	-0.30	-0.41	-0.43	-0.59	
13	-0.36	-0.07	0.10	-0.10	-0.32	0.11	0.06	-0.07	-0.30	-0.41	-0.43	-0.60	
14	-0.26	-0.07	0.09	-0.15	0.10	0.09	0.04	-0.03	-0.30	-0.41	-0.43	-0.60	
15	-0.26	-0.08	0.12	-0.20	0.00	0.33	0.02	-0.08	-0.31	-0.41	-0.43	-0.60	
16	-0.26	-0.09	0.08	-0.30	-0.10	0.35	0.00	-0.05	-0.31	-0.41	-0.43	-0.60	
17	-0.23	-0.10	0.02	-0.40	-0.30	0.19	-0.03	-0.13	-0.32	-0.41	-0.44	-0.60	
18	-0.32	0.00	0.02	-0.48	-0.34	0.17	-0.04	-0.12	-0.32	-0.41	-0.44	-0.60	
19	-0.32	0.08	0.09	-0.30	-0.36	0.15	-0.07	-0.16	-0.33	-0.41	-0.44	-0.60	
20	-0.32	0.09	0.09	-0.20	-0.36	0.09	-0.08	-0.16	-0.32	-0.41	-0.44	-0.60	
21	-0.33	0.40	0.00	-0.25	-0.34	0.77	-0.10	-0.17	-0.33	-0.41	-0.46	-0.60	
22	-0.35	0.50	0.04	-0.30	-0.36	0.28	-0.12	-0.19	-0.34	-0.41	-0.46	-0.60	
23	-0.36	0.40	0.18	-0.40	0.22	0.18	-0.12	-0.19	-0.36	-0.41	-0.48	-0.60	
24	-0.36	0.30	0.06	-0.46	0.60	0.42	-0.12	-0.20	-0.36	-0.41	-0.48	-0.60	
25	-0.36	0.00	0.07	-0.46	0.18	0.59	-0.09	-0.20	-0.37	-0.41	-0.50	-0.60	
26	-0.32	0.00	0.02	-0.44	0.10	0.24	-0.08	-0.20	-0.37	-0.41	-0.52	-0.60	
27	-0.32	0.08	-0.02	-0.42	0.08	0.25	-0.13	-0.21	-0.38	-0.41	-0.52	-0.54	
28	-0.30	0.40	-0.04	-0.43	0.00	1.06	-0.17	-0.22	-0.38	-0.41	-0.54	-0.25	
29	-0.30	0.10	-0.06	-0.45	-0.10	0.93	-0.18	-0.23	-0.38	-0.41		-0.35	
30	-0.30	0.05	-0.10	-0.46	-0.09	0.88	-0.16	-0.24	-0.39	-0.41		-0.40	
31		-0.02		-0.48	-0.02		0.10		-0.39	-0.41		-0.25	
Mean	-0.32	0.02	0.00	-0.25	-0.21	0.27	0.12	-0.04	-0.31	-0.41	-0.44	-0.56	
Max	-0.20	0.50	0.18	-0.02	0.60	1.06	0.94	0.29	-0.24	-0.40	-0.41	-0.25	1.06
Min	-0.40	-0.20	-0.13	-0.48	-0.48	-0.04	-0.18	-0.24	-0.39	-0.41	-0.54	-0.60	-0.60

Annual Max Momentary Gage Height 1.88 M (A.D), at 9.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.13 M (A.D)
Left Bank Elevation 3.83 M (A.D)
Right Bank Elevation 3.01 M (A.D), Drainage Area 237 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	4.60	3.88	2.60	0.32	4.24	34.12	13.44	1.48	0.50	0.47	0.10	
2	0.50	3.88	3.52	2.60	0.38	4.24	29.00	8.80	1.48	0.50	0.47	0.06	
3	0.50	3.52	3.34	2.60	0.44	3.88	21.28	10.00	1.48	0.50	0.47	0.04	
4	0.50	3.16	3.16	2.50	0.50	10.00	19.26	10.80	1.40	0.50	0.47	0.00	
5	0.65	2.80	2.60	2.50	0.41	4.94	16.80	16.32	1.40	0.50	0.47	0.00	
6	1.24	1.80	2.60	2.60	0.50	4.94	14.88	12.48	1.40	0.50	0.47	0.00	
7	1.80	1.90	2.60	2.98	0.50	5.62	17.70	12.96	1.24	0.50	0.47	0.00	
8	1.48	2.10	2.60	2.98	0.44	13.44	18.60	8.80	1.24	0.50	0.47	0.00	
9	1.40	2.30	2.50	2.80	0.35	13.44	16.32	6.30	1.16	0.50	0.44	0.00	
10	1.24	2.60	4.60	4.24	0.32	8.80	16.32	4.60	1.08	0.50	0.44	0.04	
11	0.70	3.16	5.96	3.52	0.29	10.80	10.80	4.42	1.00	0.50	0.41	0.04	
12	0.70	3.52	5.96	3.16	0.26	14.88	7.66	3.88	1.00	0.47	0.41	0.02	
13	0.70	3.34	8.00	2.80	0.90	8.40	6.64	3.34	1.00	0.47	0.41	0.00	
14	1.32	3.34	7.66	2.30	8.00	7.66	5.96	4.06	1.00	0.47	0.41	0.00	
15	1.32	3.16	8.80	1.80	4.60	17.34	5.28	3.16	0.95	0.47	0.41	0.00	
16	1.32	2.98	7.32	1.00	2.80	17.70	4.60	3.70	0.95	0.47	0.41	0.00	
17	1.56	2.80	5.28	0.50	1.00	11.60	4.06	2.50	0.90	0.47	0.38	0.00	
18	0.90	4.60	5.28	0.26	0.80	10.80	3.88	2.60	0.90	0.47	0.38	0.00	
19	0.90	7.32	7.66	1.00	0.70	10.00	3.34	2.20	0.85	0.47	0.38	0.00	
20	0.90	7.66	7.66	1.80	0.70	7.66	3.16	2.20	0.90	0.47	0.38	0.00	
21	0.85	18.60	4.60	1.40	0.80	28.10	2.80	2.10	0.85	0.47	0.32	0.00	
22	0.75	20.80	5.96	1.00	0.70	15.84	2.60	1.90	0.80	0.47	0.32	0.00	
23	0.70	18.60	11.20	0.50	12.96	11.20	2.60	1.90	0.70	0.47	0.26	0.00	
24	0.70	16.80	6.64	0.32	23.20	19.04	2.60	1.80	0.70	0.47	0.26	0.00	
25	0.70	4.60	6.98	0.32	11.20	22.96	2.98	1.80	0.65	0.47	0.20	0.00	
26	0.90	4.60	5.28	0.38	8.00	13.92	3.16	1.80	0.65	0.47	0.16	0.00	
27	0.90	7.32	4.24	0.44	7.32	14.40	2.50	1.72	0.60	0.47	0.16	0.12	
28	1.00	18.60	3.88	0.41	4.60	38.92	2.10	1.64	0.60	0.47	0.12	1.40	
29	1.00	8.00	3.52	0.35	2.80	33.74	2.00	1.56	0.60	0.47		0.75	
30	1.00	6.30	2.80	0.32	2.98	31.88	2.20	1.48	0.55	0.47		0.50	
31		4.24		0.26	4.24		8.00		0.55	0.47		1.40	
Total	28.63	199.00	156.08	52.24	103.01	420.38	293.20	154.26	30.06	14.90	10.42	4.47	1466.65 CMSDAY
Mean	0.95	6.42	5.20	1.69	3.32	14.01	9.46	5.14	0.97	0.48	0.37	0.14	4.02 CMS
Max	1.80	20.80	11.20	4.24	23.20	38.92	34.12	16.32	1.48	0.50	0.47	1.40	38.92 CMS
Min	0.50	1.80	2.50	0.26	0.26	3.88	2.00	1.48	0.55	0.47	0.12	0.00	0.00 CMS
Runoff	2.474	17.194	13.485	4.514	8.900	36.321	25.332	13.328	2.597	1.287	0.900	0.386	126.719 MCM

Momentary Peak 100.56 CMS, at 1.88 M (A.D), at 9.00 Hours, on Sep 28, 1996

Runoff Yield 16.95 Liters/Second/Square KM, Momentary Peak Yield 424.304 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

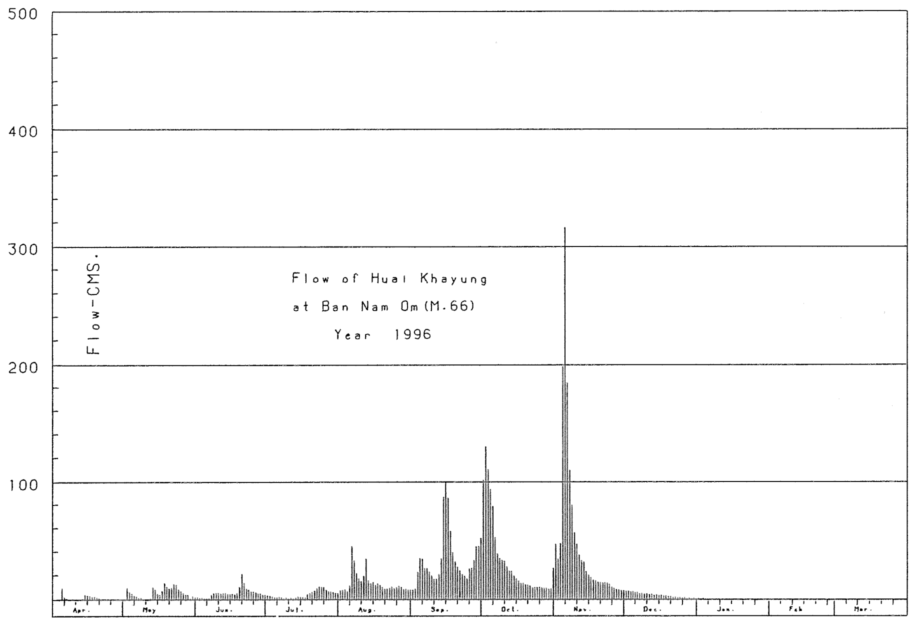
Huai Khayung at Ban Nam Om, Si Sa Ket (M.66)

Location	Lat. 14°-38′-23″ N., Long. 104°-29′-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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 5.53 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 62 discharge discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.56	-0.55	-0.29	-0.19	0.12	0.11	3.57	1.79	0.08	-0.37	-0.57	-0.60	
2	-0.56	0.23	-0.30	-0.18	0.11	0.21	4.30	1.32	0.07	-0.37	-0.57	-0.60	
3	-0.52	0.03	-0.32	-0.26	0.14	0.88	3.81	1.79	0.05	-0.37	-0.57	-0.60	
4	0.23	-0.08	-0.33	-0.26	0.07	1.33	3.34	5.30	0.04	-0.38	-0.57	-0.61	
5	-0.26	-0.18	-0.35	-0.27	0.36	1.33	2.87	6.23	0.02	-0.39	-0.57	-0.60	
6	-0.39	-0.25	-0.33	-0.28	1.73	0.99	1.96	5.14	-0.01	-0.40	-0.56	-0.60	
7	-0.45	-0.31	-0.15	-0.30	1.25	1.01	1.50	3.80	-0.05	-0.41	-0.56	-0.60	
8	-0.45	-0.35	-0.08	-0.32	0.85	0.87	1.32	2.89	-0.07	-0.42	-0.56	-0.60	
9	-0.48	-0.38	-0.03	-0.34	0.64	0.75	1.28	2.12	-0.08	-0.43	-0.56	-0.60	
10	-0.50	-0.41	-0.05	-0.33	0.53	0.62	1.23	1.78	-0.09	-0.44	-0.56	-0.60	
11	-0.51	-0.44	-0.06	-0.33	0.75	0.63	1.06	1.46	-0.10	-0.46	-0.55	-0.59	
12	-0.48	-0.34	-0.06	-0.35	1.34	0.80	0.92	1.25	-0.12	-0.48	-0.55	-0.59	
13	-0.38	0.28	-0.05	-0.34	0.57	1.34	0.89	1.22	-0.15	-0.52	-0.54	-0.59	
14	-0.13	0.15	-0.07	-0.23	0.47	3.12	0.74	0.89	-0.15	-0.52	-0.54	-0.59	
15	-0.20	-0.08	-0.09	-0.25	0.50	3.50	0.63	0.78	-0.16	-0.55	-0.55	-0.59	
16	-0.22	-0.16	-0.11	-0.30	0.40	3.11	0.54	0.68	-0.17	-0.53	-0.55	-0.59	
17	-0.24	0.08	-0.10	-0.27	0.44	2.16	0.47	0.61	-0.18	-0.54	-0.55	-0.58	
18	-0.26	0.48	-0.07	-0.13	0.39	1.52	0.45	0.57	-0.20	-0.54	-0.56	-0.58	
19	-0.28	0.29	0.30	-0.05	0.28	1.23	0.41	0.53	-0.21	-0.54	-0.56	-0.58	
20	-0.34	0.20	0.82	0.00	0.21	1.03	0.37	0.49	-0.24	-0.54	-0.56	-0.58	
21	-0.41	0.25	0.46	0.07	0.18	0.91	0.33	0.49	-0.27	-0.54	-0.57	-0.59	
22	-0.47	0.44	0.21	0.23	0.26	0.80	0.26	0.49	-0.28	-0.45	-0.57	-0.59	
23	-0.51	0.38	0.12	0.29	0.29	0.72	0.26	0.49	-0.29	-0.42	-0.57	-0.60	
24	-0.56	0.16	0.06	0.30	0.24	0.65	0.27	0.42	-0.30	-0.50	-0.57	-0.60	
25	-0.58	0.04	0.02	0.27	0.29	0.99	0.27	0.30	-0.31	-0.54	-0.58	-0.60	
26	-0.60	-0.05	0.02	0.16	0.34	0.99	0.26	0.21	-0.32	-0.56	-0.58	-0.61	
27	-0.62	-0.11	-0.05	0.07	0.27	1.28	0.24	0.18	-0.33	-0.56	-0.59	-0.61	
28	-0.64	-0.17	-0.09	0.02	0.19	1.70	0.22	0.14	-0.34	-0.56	-0.60	-0.61	
29	-0.64	-0.36	-0.13	0.02	0.19	1.73	0.19	0.12	-0.35	-0.57		-0.62	
30	-0.60	-0.24	-0.15	-0.07	0.16	1.94	0.19	0.09	-0.36	-0.57		-0.63	
31		-0.26		-0.08	0.12		0.99		-0.37	-0.57		-0.63	
Mean	-0.42	-0.06	-0.04	-0.12	0.44	1.27	1.13	1.45	-0.17	-0.49	-0.56	-0.60	
Max	0.23	0.48	0.82	0.30	1.73	3.50	4.30	6.23	0.08	-0.37	-0.54	-0.58	6.23
Min	-0.64	-0.55	-0.35	-0.35	0.07	0.11	0.19	0.09	-0.37	-0.57	-0.60	-0.63	-0.64

Annual Max Momentary Gage Height 6.35 M (A.D), at 7.00 Hours, on Nov 5, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.74 M (A.D)
Left Bank Elevation 5.52 M (A.D)
Right Bank Elevation 6.95 M (A.D), Drainage Area 586 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.15	3.65	8.30	8.15	101.95	47.71	7.70	1.30	0.00	0.00		
2	0.00	10.01	2.00	3.80	8.15	9.67	131.00	35.00	7.55	1.30	0.00	0.00		
3	0.00	6.95	1.80	2.60	8.60	24.00	111.40	47.71	7.25	1.30	0.00	0.00		
4	10.01	5.30	1.70	2.60	7.55	35.25	94.20	199.00	7.10	1.20	0.00	0.00		
5	2.60	3.80	1.50	2.45	12.28	35.25	80.10	317.10	6.80	1.10	0.00	0.00		
6	1.10	2.75	1.70	2.30	45.97	26.75	52.80	184.60	6.35	1.00	0.00	0.00		
7	0.50	1.90	4.25	2.00	33.25	27.25	39.50	111.00	5.75	0.90	0.00	0.00		
8	0.50	1.50	5.30	1.80	23.25	23.75	35.00	80.70	5.45	0.80	0.00	0.00		
9	0.20	1.20	6.05	1.60	18.00	20.75	34.00	57.60	5.30	0.70	0.00	0.00		
10	0.00	0.90	5.75	1.70	15.60	17.50	32.75	47.42	5.15	0.60	0.00	0.00		
11	0.00	0.60	5.60	1.70	20.75	17.75	28.50	38.50	5.00	0.40	0.00	0.00		
12	0.20	1.60	5.60	1.50	35.50	22.00	25.00	33.25	4.70	0.20	0.00	0.00		
13	1.20	10.86	5.75	1.60	16.40	35.50	24.25	32.50	4.25	0.00	0.00	0.00		
14	4.55	8.75	5.45	3.05	14.40	87.60	20.50	24.25	4.25	0.00	0.00	0.00		
15	3.50	5.30	5.15	2.75	15.00	99.50	17.75	21.50	4.10	0.00	0.00	0.00		
16	3.20	4.10	4.85	2.00	13.00	87.30	15.80	19.00	3.95	0.00	0.00	0.00		
17	2.90	7.70	5.00	2.45	13.80	58.80	14.40	17.25	3.80	0.00	0.00	0.00		
18	2.60	14.60	5.45	4.55	12.82	40.06	14.00	16.40	3.50	0.00	0.00	0.00		
19	2.30	11.03	11.20	5.75	10.86	32.75	13.20	15.60	3.35	0.00	0.00	0.00		
20	1.60	9.50	22.50	6.50	9.67	27.75	12.46	14.80	2.90	0.00	0.00	0.00		
21	0.90	10.35	14.20	7.55	9.20	24.75	11.74	14.80	2.45	0.00	0.00	0.00		
22	0.30	13.80	9.67	10.01	10.52	22.00	10.52	14.80	2.30	0.50	0.00	0.00		
23	0.00	12.64	8.30	11.03	11.03	20.00	10.52	14.80	2.15	0.80	0.00	0.00		
24	0.00	8.90	7.40	11.20	10.18	18.25	10.69	13.40	2.00	0.00	0.00	0.00		
25	0.00	7.10	6.80	10.69	11.03	26.75	10.69	11.20	1.90	0.00	0.00	0.00		
26	0.00	5.75	6.80	8.90	11.92	26.75	10.52	9.67	1.80	0.00	0.00	0.00		
27	0.00	4.85	5.75	7.55	10.69	34.00	10.18	9.20	1.70	0.00	0.00	0.00		
28	0.00	3.95	5.15	6.80	9.35	45.10	9.84	8.60	1.60	0.00	0.00	0.00		
29	0.00	1.40	4.55	6.80	9.35	45.97	9.35	8.30	1.50	0.00		0.00		
30	0.00	2.90	4.25	5.45	8.90	52.20	9.35	7.85	1.40	0.00		0.00		
31		2.60		5.30	8.30		26.75		1.30	0.00		0.00		
Total	38.16	182.59	181.62	147.63	453.62	1053.10	1028.71	1473.51	124.30	12.10	0.00	0.00	4695.34	CMSDAY
Mean	1.27	5.89	6.05	4.76	14.63	35.10	33.18	49.12	4.01	0.39	0.00	0.00	12.86	CMS
Max	10.01	14.60	22.50	11.20	45.97	99.50	131.00	317.10	7.70	1.30	0.00	0.00	317.10	CMS
Min	0.00	0.00	1.50	1.50	7.55	8.15	9.35	7.85	1.30	0.00	0.00	0.00	0.00	CMS
Runoff	3.297	15.776	15.692	12.755	39.193	90.988	88.881	127.311	10.740	1.045	0.000	0.000	405.677	MCM

Momentary Peak 338.00 CMS, at 6.35 M (A.D), at 7.00 Hours, on Nov 5, 1996
Runoff Yield 21.95 Liters/Second/Square KM, Momentary Peak Yield 576.792 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

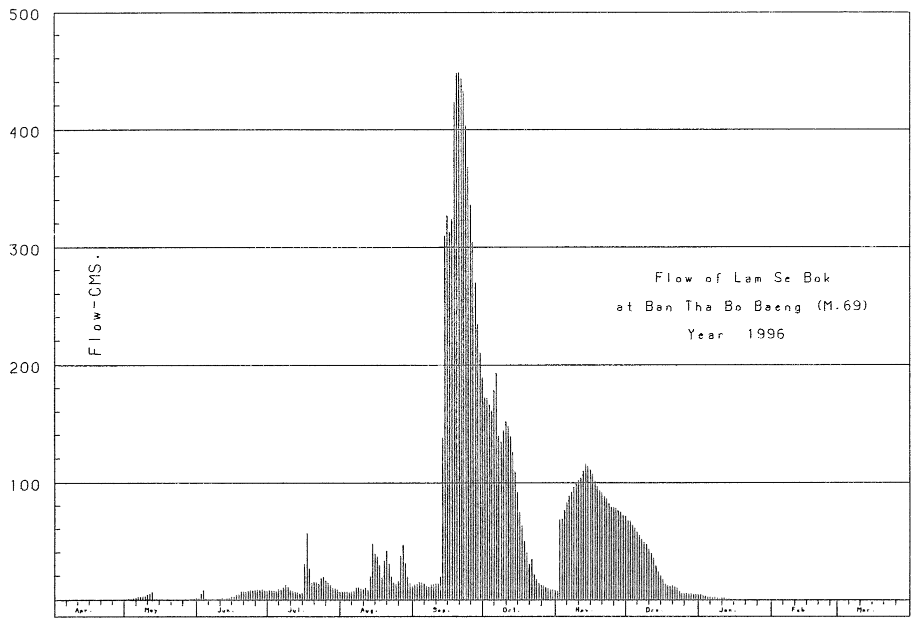
Lam Se Bok at Ban Tha Bo Baeng, Ubon Ratchathani (M.69)

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	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Department of Energy Development and Promotion s weir about 11 kilometers downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	1.37	1.57	2.11	2.05	2.38	6.01	4.01	4.01	1.90	0.82	0.95	
2	0.36	1.40	1.93	2.12	2.07	2.38	6.00	4.01	3.99	1.85	0.83	0.96	
3	0.36	1.47	2.14	2.10	2.05	2.49	5.92	4.04	3.91	1.78	0.83	0.98	
4	0.36	1.54	1.49	2.09	2.03	2.45	5.83	4.21	3.84	1.73	0.83	0.99	
5	0.35	1.58	1.33	2.17	2.05	2.41	6.12	4.37	3.77	1.68	0.82	1.00	
6	0.35	1.65	1.24	2.15	2.10	2.30	6.34	4.47	3.68	1.67	0.82	1.00	
7	0.35	1.69	1.18	2.23	2.23	2.29	6.28	4.55	3.61	1.65	0.82	1.00	
8	0.35	1.72	1.24	2.35	2.25	2.36	6.24	4.62	3.53	1.63	0.83	1.00	
9	0.35	1.78	1.35	2.27	2.19	2.39	6.32	4.69	3.50	1.62	0.83	1.00	
10	0.35	1.86	1.43	2.13	2.17	2.40	6.39	4.74	3.39	1.63	0.83	1.00	
11	0.35	1.93	1.48	2.08	2.22	2.42	6.35	4.79	3.31	1.56	0.83	1.00	
12	0.35	2.05	1.46	2.06	2.14	2.66	6.28	4.90	3.20	1.49	0.82	0.99	
13	0.35	1.38	1.44	2.02	2.68	5.44	6.15	5.03	2.99	1.36	0.82	0.99	
14	0.35	1.38	1.55	1.96	3.51	7.84	5.99	4.98	2.81	1.22	0.82	0.98	
15	0.35	1.36	1.70	1.98	3.29	8.03	5.81	4.93	2.71	1.16	0.82	1.01	
16	0.34	1.21	1.73	3.02	3.23	7.87	5.62	4.85	2.59	1.04	0.83	1.08	
17	0.34	1.21	1.84	3.74	3.01	7.99	5.45	4.74	2.41	0.95	0.85	1.07	
18	0.34	1.18	1.93	2.91	2.64	9.05	5.26	4.64	2.33	0.87	0.85	1.05	
19	0.33	1.10	2.05	2.42	3.12	9.29	5.09	4.58	2.31	0.82	0.86	1.04	
20	0.36	1.06	2.08	2.49	3.36	9.30	4.89	4.53	2.33	0.79	0.86	1.04	
21	0.40	1.08	2.04	2.46	3.05	9.25	4.99	4.48	2.30	0.77	0.86	1.02	
22	0.39	1.08	2.11	2.40	2.67	9.14	4.68	4.43	2.23	0.77	0.86	1.02	
23	0.38	1.09	2.12	2.61	2.46	8.85	4.57	4.36	2.10	0.79	0.86	1.02	
24	0.38	1.07	2.12	2.67	2.37	8.48	4.50	4.28	1.96	0.81	0.87	1.01	
25	0.38	1.07	2.14	2.54	2.53	8.13	4.42	4.29	1.98	0.82	0.88	1.01	
26	0.37	1.19	2.13	2.43	3.24	7.77	4.35	4.26	1.97	0.82	0.90	1.00	
27	0.37	1.21	2.14	2.35	3.49	7.36	4.28	4.22	1.96	0.82	0.91	0.99	
28	0.37	1.25	2.15	2.21	3.04	6.91	4.20	4.18	1.95	0.82	0.93	0.98	
29	0.85	1.35	2.11	2.20	2.67	6.59	4.14	4.12	1.93	0.82		0.98	
30	1.25	1.44	2.08	2.14	2.41	6.28	4.08	4.09	1.91	0.82		0.98	
31		1.49		2.06	2.28		4.04		1.92	0.82		1.07	
Mean	0.40	1.39	1.78	2.34	2.60	5.75	5.37	4.48	2.79	1.20	0.85	1.01	
Max	1.25	2.05	2.15	3.74	3.51	9.30	6.39	5.03	4.01	1.90	0.93	1.08	9.30
Min	0.33	1.06	1.18	1.96	2.03	2.29	4.04	4.01	1.91	0.77	0.82	0.95	0.33

Annual Max Momentary Gage Height 9.32 M (A.D), at 24.00 Hours, on Dep 19, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.32 M (A.D)
Left Bank Elevation 9.37 M (A.D)
Right Bank Elevation 9.97 M (A.D), Drainage Area 2132 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.11	2.05	8.20	7.15	13.60	172.60	7.99	68.40	4.80	0.12	0.25	
2	0.00	1.20	5.25	8.40	7.49	13.60	172.00	68.40	67.60	4.30	0.13	0.26	
3	0.00	1.55	8.80	8.00	7.15	15.80	167.20	69.60	64.40	3.62	0.13	0.28	
4	0.00	1.90	1.65	7.83	6.81	15.00	161.80	76.40	61.60	3.17	0.13	0.29	
5	0.00	2.10	0.99	9.40	7.15	14.20	179.20	83.50	58.80	2.76	0.12	0.30	
6	0.00	2.55	0.78	9.00	8.00	12.00	193.80	88.50	55.20	2.69	0.12	0.30	
7	0.00	2.83	0.66	10.60	10.60	11.80	139.80	92.50	52.40	2.55	0.12	0.30	
8	0.00	3.08	0.78	13.00	11.00	13.20	135.40	96.00	49.20	2.41	0.13	0.30	
9	0.00	3.62	1.05	11.40	9.80	13.80	144.40	99.50	48.00	2.34	0.13	0.30	
10	0.00	4.40	1.35	8.60	9.40	14.00	152.80	102.00	43.60	2.41	0.13	0.30	
11	0.00	5.25	1.60	7.66	10.40	14.40	148.00	104.50	40.40	2.00	0.13	0.30	
12	0.00	7.15	1.50	7.32	8.80	19.80	139.80	110.00	36.00	1.65	0.12	0.29	
13	0.00	1.14	1.40	6.64	20.40	138.40	126.00	116.50	29.70	1.08	0.12	0.29	
14	0.00	1.14	1.95	5.70	48.40	310.60	110.00	114.00	24.30	0.74	0.12	0.28	
15	0.00	1.08	2.90	6.00	39.60	327.70	92.00	111.50	21.30	0.62	0.12	0.32	
16	0.00	0.72	3.17	30.60	37.20	313.30	75.60	107.50	17.80	0.38	0.13	0.46	
17	0.00	0.72	4.20	57.60	30.30	324.10	63.50	102.00	14.20	0.25	0.15	0.44	
18	0.00	0.66	5.25	27.30	19.20	424.00	50.60	97.00	12.60	0.17	0.15	0.40	
19	0.00	0.50	7.15	14.40	33.60	448.00	40.50	94.00	12.20	0.12	0.16	0.38	
20	0.00	0.42	7.66	15.80	42.40	449.00	30.60	91.50	12.60	0.09	0.16	0.38	
21	0.00	0.46	6.98	15.20	31.50	444.00	35.50	89.00	12.00	0.07	0.16	0.34	
22	0.00	0.46	8.20	14.00	20.10	433.00	22.20	86.50	10.60	0.07	0.16	0.34	
23	0.00	0.48	8.40	18.30	15.20	404.00	17.80	83.00	8.00	0.09	0.16	0.34	
24	0.00	0.44	8.40	20.10	13.40	368.20	15.00	79.20	5.70	0.11	0.17	0.32	
25	0.00	0.44	8.80	16.80	16.60	336.70	13.40	79.60	6.00	0.12	0.18	0.32	
26	0.00	0.68	8.60	14.60	37.60	304.30	12.25	78.40	5.85	0.12	0.20	0.30	
27	0.00	0.72	8.80	13.00	47.60	270.80	11.20	76.80	5.70	0.12	0.21	0.29	
28	0.00	0.80	9.00	10.20	31.20	234.80	10.00	75.20	5.55	0.12	0.23	0.28	
29	0.15	1.05	8.20	10.00	20.10	211.30	9.28	72.80	5.25	0.12		0.28	
30	0.80	1.40	7.66	8.80	14.20	189.60	8.62	71.60	4.95	0.12		0.28	
31		1.65		7.32	11.60		8.26		5.10	0.12		0.44	
Total	0.95	51.70	143.18	421.77	633.95	6103.00	2659.11	2624.99	865.00	39.33	4.09	9.95	13557.02 CMSDAY
Mean	0.03	1.67	4.77	13.61	20.45	203.43	85.78	87.50	27.90	1.27	0.15	0.32	37.14 CMS
Max	0.80	7.15	9.00	57.60	48.40	449.00	193.80	116.50	68.40	4.80	0.23	0.46	449.00 CMS
Min	0.00	0.42	0.66	5.70	6.81	11.80	8.26	7.99	4.95	0.07	0.12	0.25	0.00 CMS
Runoff	0.082	4.467	12.371	36.441	54.773	527.299	229.747	226.799	74.736	3.398	0.353	0.860	1171.327 MCM

Momentary Peak 451.00 CMS, at 9.32 M (A.D), at 24.00 Hours, on Dep 19, 1996

Runoff Yield 17.42 Liters/Second/Square KM, Momentary Peak Yield 211.538 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

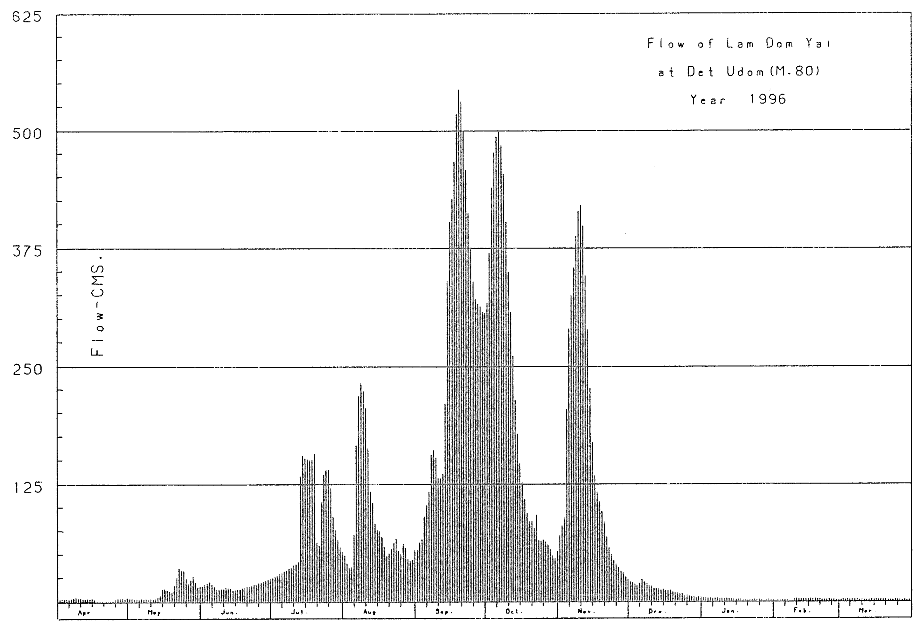
Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)

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	+117.26 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	Rather unstable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation + 123.82 m.(M.S.L.) and is included.
General Description	Records fair. Flow effected by the rubber weir during Jun.15-Jul.12,96. discharge estimated by recession equation. Stage-discharge relation defined by 49 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.47	121.49	121.67	118.97	119.62	119.75	124.83	120.10	119.00	121.51	121.42	121.44	
2	121.47	121.47	121.68	118.92	119.42	119.91	125.60	120.31	118.96	121.50	121.42	121.45	
3	121.47	121.47	121.70	118.88	119.33	120.00	126.37	120.51	118.94	121.50	121.43	121.45	
4	121.47	121.46	121.71	118.84	119.33	120.52	126.68	122.80	119.62	121.49	121.44	121.45	
5	121.47	121.46	121.69	118.80	120.11	120.78	126.80	124.37	121.61	121.49	121.44	121.45	
6	121.48	121.47	121.66	118.77	122.05	121.06	126.83	124.97	121.73	121.49	121.41	121.44	
7	121.51	121.47	121.62	118.77	123.09	121.84	126.74	125.40	121.71	121.48	121.36	121.45	
8	121.51	121.47	121.63	118.75	123.36	121.93	126.49	125.82	121.69	121.48	121.41	121.45	
9	121.50	121.47	121.63	118.77	123.18	121.79	126.00	126.12	121.67	121.48	121.46	121.44	
10	121.49	121.47	121.64	118.78	122.84	121.34	125.33	126.18	121.66	121.48	121.47	121.44	
11	121.49	121.47	121.65	118.77	121.97	121.35	124.66	125.95	121.64	121.48	121.47	121.44	
12	121.48	121.48	121.65	119.46	121.07	121.43	123.89	125.27	121.64	121.48	121.47	121.44	
13	121.48	121.51	121.64	121.39	120.82	122.93	123.01	124.35	121.63	121.47	121.47	121.44	
14	121.48	121.54	121.62	121.82	120.38	125.19	122.28	123.26	121.62	121.46	121.47	121.44	
15	121.48	121.63	121.62	121.77	120.23	126.00	121.67	122.11	121.62	121.45	121.47	121.45	
16	121.44	121.63	121.67	121.74	120.19	126.25	121.24	121.39	121.61	121.45	121.47	121.45	
17	121.37	121.62	121.70	121.73	120.06	126.60	120.90	121.06	121.61	121.44	121.47	121.45	
18	121.28	121.60	121.79	121.74	119.80	126.96	120.59	120.84	121.61	121.43	121.47	121.46	
19	121.19	121.60	121.83	121.88	119.61	127.11	120.43	120.64	121.60	121.43	121.47	121.45	
20	120.86	121.67	121.88	119.92	119.66	127.04	120.42	120.40	121.58	121.43	121.46	121.45	
21	120.97	121.75	121.22	119.86	119.77	126.84	120.25	120.06	121.58	121.44	121.45	121.44	
22	121.10	121.83	119.58	120.86	119.92	126.53	120.57	119.80	121.57	121.44	121.45	121.44	
23	121.19	121.81	119.38	121.42	120.00	126.10	119.98	119.64	121.56	121.44	121.45	121.44	
24	121.33	121.81	119.31	121.52	119.73	125.68	119.95	119.50	121.54	121.44	121.46	121.44	
25	121.46	121.74	119.27	121.52	119.64	125.18	119.99	119.40	121.54	121.44	121.45	121.44	
26	121.49	121.70	119.28	121.13	119.89	124.89	119.93	119.32	121.53	121.44	121.44	121.43	
27	121.49	121.73	119.44	120.53	119.80	124.80	119.87	119.24	121.52	121.42	121.44	121.43	
28	121.49	121.76	119.47	120.21	119.54	124.75	119.75	119.19	121.51	121.43	121.44	121.43	
29	121.48	121.71	119.20	119.98	119.48	124.67	119.61	119.11	121.51	121.44		121.43	
30	121.50	121.65	119.05	119.80	119.52	124.64	119.53	119.04	121.51	121.44		121.42	
31		121.66		119.70	119.73		119.71		121.51	121.43		121.43	
Mean	121.40	121.60	120.96	120.16	120.42	123.80	122.58	121.87	121.28	121.46	121.45	121.44	
Max	121.51	121.83	121.88	121.88	123.36	127.11	126.83	126.18	121.73	121.51	121.47	121.46	127.11
Min	120.86	121.46	119.05	118.75	119.33	119.75	119.53	119.04	118.94	121.42	121.36	121.42	118.75

Annual Max Momentary Gage Height 127.11 M (MSL), at 24.00 Hours, on Sep 19, 1996
Zero Gage at Bottom Elevation 117.26 M (MSL), River Bed 117.32 M (MSL)
Left Bank Elevation 130.67 M (MSL)
Right Bank Elevation 123.81 M (MSL), Drainage Area 3363 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.10	3.70	17.30	26.15	49.90	55.75	317.80	71.50	22.00	4.70	1.60	2.20	
2	3.10	3.10	18.20	27.34	40.90	62.95	370.00	80.95	20.20	4.00	1.60	2.50	
3	3.10	3.10	20.00	28.59	36.85	67.00	440.00	90.00	19.30	4.00	1.90	2.50	
4	3.10	2.80	21.20	29.89	36.85	90.50	476.60	204.50	16.70	3.70	2.20	2.50	
5	3.10	2.80	19.10	31.25	71.95	103.50	494.00	290.20	20.00	3.70	2.20	2.50	
6	3.40	3.10	16.40	32.68	167.00	117.50	498.50	326.20	23.60	3.70	1.30	2.20	
7	4.70	3.10	12.80	34.17	219.00	156.50	485.00	355.00	21.20	3.40	0.60	2.50	
8	4.70	3.10	13.70	35.72	232.50	161.00	453.80	387.80	19.10	3.40	1.30	2.50	
9	4.00	3.10	13.70	37.35	223.50	154.00	404.00	415.00	17.30	3.40	2.80	2.20	
10	3.70	3.10	14.60	39.06	206.50	131.50	350.10	421.00	16.40	3.40	3.10	2.20	
11	3.70	3.10	15.50	40.84	163.00	132.00	307.60	399.50	14.60	3.40	3.10	2.20	
12	3.40	3.40	15.50	42.70	118.00	136.00	261.45	345.90	14.60	3.40	3.10	2.20	
13	3.40	4.70	14.60	134.00	105.50	211.00	215.00	289.00	13.70	3.10	3.10	2.20	
14	3.40	6.80	12.80	155.50	84.10	340.30	178.50	227.50	12.80	2.80	3.10	2.20	
15	3.40	13.70	12.80	153.00	77.35	404.00	148.00	170.00	12.80	2.50	3.10	2.50	
16	2.20	13.70	13.39	151.50	75.55	428.00	126.50	134.00	11.90	2.50	3.10	2.50	
17	0.70	12.80	14.01	151.00	69.70	467.00	109.50	117.50	11.90	2.20	3.10	2.50	
18	0.00	11.00	14.64	151.50	58.00	518.00	94.00	106.50	11.90	1.90	3.10	2.80	
19	0.00	11.00	15.31	158.50	49.45	543.80	86.35	96.50	11.00	1.90	3.10	2.50	
20	0.00	17.30	16.01	63.40	51.70	531.20	85.90	85.00	9.60	1.90	2.80	2.50	
21	0.00	26.00	16.74	60.70	56.65	500.00	78.25	69.70	9.60	2.20	2.50	2.20	
22	0.00	36.50	17.50	107.50	63.40	458.60	93.00	58.00	8.90	2.20	2.50	2.20	
23	0.00	33.50	18.30	135.50	67.00	413.00	66.10	50.80	8.20	2.20	2.50	2.20	
24	0.30	33.50	19.14	140.50	54.85	376.40	64.75	44.50	6.80	2.20	2.80	2.20	
25	2.80	24.80	20.01	140.50	50.80	339.60	66.55	40.00	6.80	2.20	2.50	2.20	
26	3.70	20.00	20.92	121.00	62.05	321.40	63.85	36.40	6.10	2.20	2.20	1.90	
27	3.70	23.60	21.88	91.00	58.00	316.00	61.15	32.80	5.40	1.60	2.20	1.90	
28	3.70	27.20	22.87	76.45	46.30	313.00	55.75	30.55	4.70	1.90	2.20	1.90	
29	3.40	21.20	23.92	66.10	43.60	308.20	49.45	26.95	4.70	2.20		1.90	
30	4.00	15.50	25.01	58.00	45.40	306.40	45.85	23.80	4.70	2.20		1.60	
31		16.40		53.50	54.85		53.95		4.70	1.90		1.90	
Total	77.80	406.70	517.85	2574.89	2740.20	8464.10	6601.25	5027.05	391.20	86.00	68.70	70.00	27025.74 CMSDAY
Mean	2.59	13.12	17.26	83.06	88.39	282.14	212.94	167.57	12.62	2.77	2.45	2.26	74.04 CMS
Max	4.70	36.50	25.01	158.50	232.50	543.80	498.50	421.00	23.60	4.70	3.10	2.80	543.80 CMS
Min	0.00	2.80	12.80	26.15	36.85	55.75	45.85	23.80	4.70	1.60	0.60	1.60	0.00 CMS
Runoff	6.722	35.139	44.742	222.471	236.753	731.298	570.348	434.337	33.800	7.430	5.936	6.048	2335.024 MCM

Momentary Peak 543.80 CMS, at 127.11 M (MSL), at 24.00 Hours, on Sep 19, 1996

Runoff Yield 22.02 Liters/Second/Square KM, Momentary Peak Yield 161.701 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

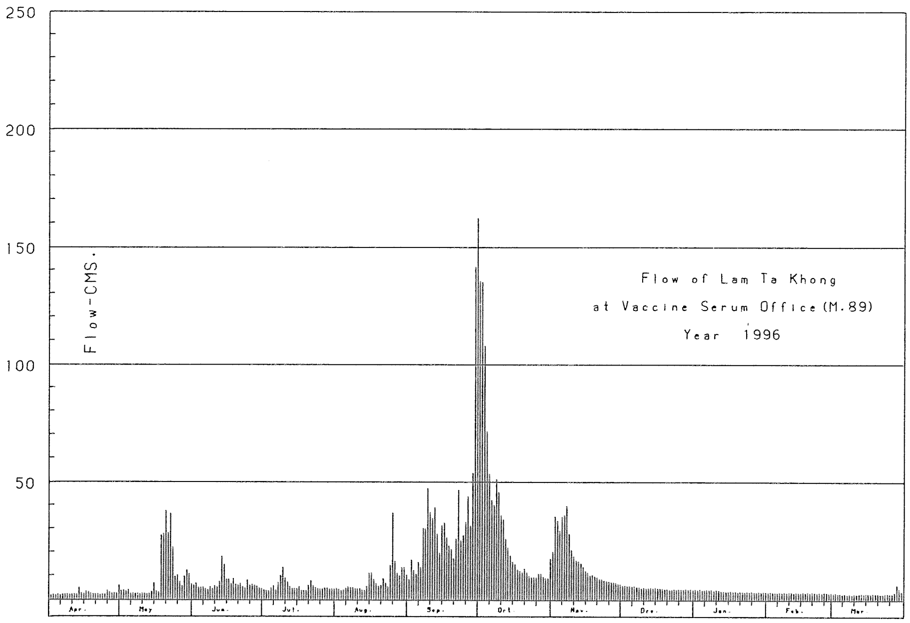
Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)

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	665 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	+8.909 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	1970 to date.
Rating Operation	
Period of Rating	1971 to date.
Rated by Float	-
Rated by Current Meter	1971 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Lam Takhong Dam Reservior. Stage-discharge relation defined by 48 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.14	1.30	1.42	1.32	1.35	1.55	5.71	2.07	1.42	1.33	1.25	1.22	
2	1.15	1.30	1.45	1.30	1.32	1.93	5.70	2.66	1.41	1.33	1.25	1.21	
3	1.14	1.29	1.37	1.30	1.31	1.73	4.99	2.60	1.41	1.33	1.25	1.20	
4	1.16	1.31	1.36	1.35	1.31	1.66	3.93	2.42	1.40	1.32	1.24	1.19	
5	1.15	1.20	1.38	1.41	1.36	1.89	3.32	2.65	1.40	1.32	1.24	1.18	
6	1.16	1.21	1.34	1.32	1.38	1.79	2.94	2.69	1.39	1.32	1.24	1.18	
7	1.18	1.20	1.33	1.47	1.37	2.47	2.86	2.84	1.38	1.32	1.24	1.17	
8	1.18	1.20	1.38	1.63	1.36	2.45	3.25	2.37	1.37	1.32	1.24	1.17	
9	1.17	1.19	1.35	1.79	1.35	3.12	3.06	2.10	1.36	1.31	1.24	1.16	
10	1.16	1.20	1.40	1.56	1.34	2.73	2.68	1.98	1.36	1.31	1.24	1.17	
11	1.17	1.22	1.37	1.49	1.35	2.63	2.62	1.92	1.36	1.31	1.24	1.18	
12	1.17	1.19	1.50	1.38	1.31	2.81	2.29	1.90	1.36	1.30	1.24	1.20	
13	1.37	1.19	1.98	1.35	1.31	2.37	2.13	1.87	1.36	1.28	1.24	1.20	
14	1.21	1.28	1.85	1.34	1.39	2.04	2.00	1.80	1.36	1.28	1.24	1.19	
15	1.20	1.47	1.55	1.35	1.68	2.51	1.89	1.73	1.36	1.28	1.24	1.19	
16	1.26	1.28	1.54	1.38	1.68	2.56	1.85	1.68	1.35	1.28	1.24	1.19	
17	1.26	1.24	1.45	1.31	1.55	2.31	1.76	1.63	1.35	1.28	1.24	1.19	
18	1.19	2.35	1.55	1.30	1.45	2.16	1.72	1.63	1.34	1.26	1.24	1.20	
19	1.19	2.37	1.43	1.31	1.40	2.11	1.70	1.61	1.34	1.26	1.24	1.19	
20	1.18	2.76	1.42	1.41	1.41	1.95	1.77	1.58	1.33	1.26	1.24	1.18	
21	1.17	2.39	1.45	1.52	1.56	2.28	1.70	1.56	1.33	1.26	1.24	1.18	
22	1.16	2.72	1.39	1.41	1.47	3.10	1.62	1.55	1.33	1.26	1.23	1.18	
23	1.16	2.14	1.35	1.36	1.38	2.25	1.59	1.51	1.33	1.26	1.23	1.19	
24	1.16	1.61	1.53	1.35	1.84	2.35	1.58	1.51	1.33	1.26	1.23	1.21	
25	1.30	1.63	1.42	1.33	2.73	2.57	1.59	1.49	1.33	1.26	1.23	1.17	
26	1.23	1.49	1.43	1.33	1.90	3.00	1.67	1.48	1.33	1.26	1.23	1.17	
27	1.22	1.41	1.42	1.36	1.68	2.51	1.66	1.48	1.33	1.25	1.22	1.25	
28	1.21	1.61	1.39	1.35	1.61	3.34	1.60	1.46	1.33	1.25	1.22	1.43	
29	1.22	1.74	1.36	1.34	1.80	5.87	1.56	1.45	1.33	1.25		1.34	
30	1.42	1.66	1.34	1.34	1.79	6.39	1.57	1.43	1.33	1.25		1.29	
31		1.43		1.33	1.63		1.94		1.33	1.25		1.26	
Mean	1.20	1.57	1.45	1.39	1.53	2.61	2.46	1.89	1.36	1.28	1.24	1.21	
Max	1.42	2.76	1.98	1.79	2.73	6.39	5.71	2.84	1.42	1.33	1.25	1.43	6.39
Min	1.14	1.19	1.33	1.30	1.31	1.55	1.56	1.43	1.33	1.25	1.22	1.16	1.14

Annual Max Momentary Gage Height 6.84 M (A.D), at 24.00 Hours, on Sep 30, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.08 M (A.D)
Left Bank Elevation 8.22 M (A.D)
Right Bank Elevation 8.14 M (A.D), Drainage Area 665 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	4.00	6.40	4.40	5.00	9.00	135.40	20.75	6.40	4.60	3.40	3.04	
2	2.30	4.00	7.00	4.00	4.40	17.25	135.00	35.50	6.20	4.60	3.40	2.92	
3	2.20	3.88	5.40	4.00	4.20	12.60	108.15	34.00	6.20	4.60	3.40	2.80	
4	2.40	4.20	5.20	5.00	4.20	11.20	71.90	29.50	6.00	4.40	3.28	2.70	
5	2.30	2.80	5.60	6.20	5.20	16.25	53.60	35.25	6.00	4.40	3.28	2.60	
6	2.40	2.92	4.80	4.40	5.60	13.80	42.50	36.25	5.80	4.40	3.28	2.60	
7	2.60	2.80	4.60	7.40	5.40	30.75	40.50	40.00	5.60	4.40	3.28	2.50	
8	2.60	2.80	5.60	10.60	5.20	30.25	51.50	28.25	5.40	4.40	3.28	2.50	
9	2.50	2.70	5.00	13.80	5.00	47.60	45.80	21.50	5.20	4.20	3.28	2.40	
10	2.40	2.80	6.00	9.20	4.80	37.25	36.00	18.50	5.20	4.20	3.28	2.50	
11	2.50	3.04	5.40	7.80	5.00	34.75	34.50	17.00	5.20	4.20	3.28	2.60	
12	2.50	2.70	8.00	5.60	4.20	39.25	26.25	16.50	5.20	4.00	3.28	2.80	
13	5.40	2.70	18.50	5.00	4.20	28.25	22.25	15.75	5.20	3.76	3.28	2.80	
14	2.92	3.76	15.25	4.80	5.80	20.00	19.00	14.00	5.20	3.76	3.28	2.70	
15	2.80	7.40	9.00	5.00	11.60	31.75	16.25	12.60	5.20	3.76	3.28	2.70	
16	3.52	3.76	8.80	5.60	11.60	33.00	15.25	11.60	5.00	3.76	3.28	2.70	
17	3.52	3.28	7.00	4.20	9.00	26.75	13.20	10.60	5.00	3.76	3.28	2.70	
18	2.70	27.75	9.00	4.00	7.00	23.00	12.40	10.60	4.80	3.52	3.28	2.80	
19	2.70	28.25	6.60	4.20	6.00	21.75	12.00	10.20	4.80	3.52	3.28	2.70	
20	2.60	38.00	6.40	6.20	6.20	17.75	13.40	9.60	4.60	3.52	3.28	2.60	
21	2.50	28.75	7.00	8.40	9.20	26.00	12.00	9.20	4.60	3.52	3.28	2.60	
22	2.40	37.00	5.80	6.20	7.40	47.00	10.40	9.00	4.60	3.52	3.16	2.60	
23	2.40	22.50	5.00	5.20	5.60	25.25	9.80	8.20	4.60	3.52	3.16	2.70	
24	2.40	10.20	8.60	5.00	15.00	27.75	9.60	8.20	4.60	3.52	3.16	2.92	
25	4.00	10.60	6.40	4.60	37.25	33.25	9.80	7.80	4.60	3.52	3.16	2.50	
26	3.16	7.80	6.60	4.60	16.50	44.00	11.40	7.60	4.60	3.52	3.16	2.50	
27	3.04	6.20	6.40	5.20	11.60	31.75	11.20	7.60	4.60	3.40	3.04	3.40	
28	2.92	10.20	5.80	5.00	10.20	54.20	10.00	7.20	4.60	3.40	3.04	6.60	
29	3.04	12.80	5.20	4.80	14.00	141.80	9.20	7.00	4.60	3.40		4.80	
30	6.40	11.20	4.80	4.80	13.80	162.60	9.40	6.60	4.60	3.40		3.88	
31		6.60		4.60	10.60		17.50		4.60	3.40		3.52	
Total	87.32	317.39	211.15	179.80	270.75	1095.80	1025.15	506.35	158.80	119.88	91.12	91.68	4155.19 CMSDAY
Mean	2.91	10.24	7.04	5.80	8.73	36.53	33.07	16.88	5.12	3.87	3.25	2.96	11.38 CMS
Max	6.40	38.00	18.50	13.80	37.25	162.60	135.40	40.00	6.40	4.60	3.40	6.60	162.60 CMS
Min	2.20	2.70	4.60	4.00	4.20	9.00	9.20	6.60	4.60	3.40	3.04	2.40	2.20 CMS
Runoff	7.544	27.422	18.243	15.535	23.393	94.677	88.573	43.749	13.720	10.358	7.873	7.921	359.0[illegible] MCM

Momentary Peak 182.80 CMS, at 6.84 M (A.D), at 24.00 Hours, on Sep 30, 1996
Runoff Yield 17.12 Liters/Second/Square KM, Momentary Peak Yield 274.887 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

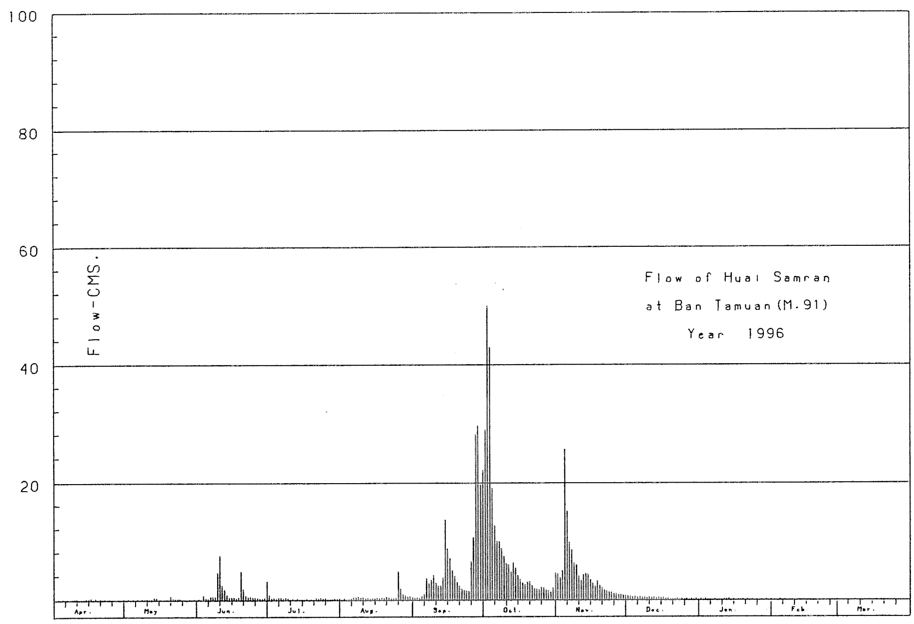
Huai Samran at Ban Tamuan, Si Sa Ket (M.91)

Location	Lat. 14°-29′-48″ N., Long. 104°-03′-29″ E., on right bank about 15 kilometers from the highway at Ban Tamuan, 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 left bank downstream at the abutment of the bridge.
Elevation	+8.861 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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 5.36 m.(A.D.), records are channel flow only.
General Description	Records good. Huai Samran reservoir situated about 5 kilometers upstream and the local weir situated about 800 meters downstream from the gage site. Stage-discharge relation defined by 83 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	1.22	1.22	1.44	1.24	1.30	4.27	2.03	1.42	1.25	1.19	1.19	
2	1.20	1.22	1.22	1.33	1.26	1.31	5.25	1.94	1.40	1.25	1.15	1.17	
3	1.19	1.22	1.42	1.30	1.26	1.32	4.99	2.10	1.39	1.25	1.17	1.17	
4	1.19	1.21	1.33	1.30	1.27	1.38	3.53	4.04	1.39	1.24	1.23	1.16	
5	1.19	1.20	1.28	1.34	1.29	1.48	2.95	3.20	1.38	1.25	1.22	1.16	
6	1.18	1.20	1.39	1.30	1.33	1.92	2.68	2.66	1.38	1.23	1.21	1.17	
7	1.18	1.21	1.39	1.31	1.36	1.80	2.68	2.54	1.36	1.23	1.19	1.18	
8	1.21	1.21	1.39	1.30	1.37	1.88	2.56	2.27	1.35	1.23	1.18	1.19	
9	1.22	1.23	2.07	1.28	1.35	2.00	2.42	2.24	1.35	1.23	1.17	1.20	
10	1.21	1.22	2.44	1.26	1.33	1.81	2.27	1.98	1.35	1.23	1.16	1.18	
11	1.21	1.22	1.72	1.26	1.31	1.71	2.23	1.88	1.35	1.23	1.15	1.15	
12	1.21	1.25	1.62	1.25	1.30	1.73	2.09	2.01	1.35	1.28	1.19	1.12	
13	1.23	1.35	1.45	1.25	1.29	1.93	2.27	2.05	1.34	1.24	1.19	1.09	
14	1.23	1.27	1.37	1.24	1.28	3.05	2.16	2.03	1.34	1.23	1.19	1.07	
15	1.27	1.21	1.36	1.23	1.30	2.55	2.00	1.90	1.34	1.23	1.19	1.06	
16	1.28	1.16	1.33	1.22	1.31	2.38	1.89	1.79	1.33	1.23	1.17	1.06	
17	1.25	1.12	1.32	1.23	1.30	2.12	1.80	1.72	1.30	1.23	1.16	1.05	
18	1.26	1.08	1.34	1.23	1.29	1.97	1.74	1.85	1.27	1.23	1.15	1.06	
19	1.24	1.06	2.10	1.19	1.33	1.83	1.83	1.74	1.27	1.23	1.14	1.08	
20	1.23	1.40	1.62	1.22	1.35	1.71	1.83	1.67	1.27	1.23	1.13	1.09	
21	1.22	1.30	1.44	1.29	1.32	1.62	1.73	1.61	1.27	1.23	1.13	1.09	
22	1.21	1.28	1.38	1.29	1.30	1.60	1.64	1.57	1.27	1.23	1.13	1.10	
23	1.20	1.25	1.36	1.29	1.30	1.56	1.61	1.55	1.26	1.22	1.14	1.10	
24	1.20	1.23	1.35	1.29	1.28	1.57	1.61	1.53	1.26	1.21	1.15	1.11	
25	1.19	1.16	1.31	1.28	2.10	2.31	1.66	1.51	1.26	1.21	1.16	1.12	
26	1.19	1.14	1.30	1.26	1.63	2.74	1.65	1.48	1.25	1.21	1.17	1.12	
27	1.19	1.15	1.30	1.25	1.48	4.22	1.61	1.46	1.25	1.21	1.18	1.15	
28	1.19	1.19	1.30	1.25	1.42	4.31	1.57	1.44	1.25	1.23	1.20	1.14	
29	1.20	1.20	1.29	1.24	1.40	3.58	1.54	1.44	1.25	1.23		1.12	
30	1.21	1.21	1.86	1.27	1.38	3.76	1.65	1.43	1.25	1.23		1.11	
31		1.22		1.26	1.36		2.06		1.25	1.20		1.10	
Mean	1.21	1.21	1.48	1.27	1.36	2.15	2.32	1.96	1.31	1.23	1.17	1.12	
Max	1.28	1.40	2.44	1.44	2.10	4.31	5.25	4.04	1.42	1.28	1.23	1.20	5.25
Min	1.18	1.06	1.22	1.19	1.24	1.30	1.54	1.43	1.25	1.20	1.13	1.05	1.05

Annual Max Momentary Gage Height 6.01 M (A.D), at 18.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.45 M (A.D)
Left Bank Elevation 5.35 M (A.D)
Right Bank Elevation 6.20 M (A.D), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.24	0.24	0.90	0.28	0.40	29.05	4.51	0.80	0.30	0.18	0.18	
2	0.20	0.24	0.24	0.49	0.32	0.43	50.05	3.88	0.70	0.30	0.10	0.14	
3	0.18	0.24	0.80	0.40	0.32	0.46	43.07	5.00	0.67	0.30	0.14	0.14	
4	0.18	0.22	0.49	0.40	0.34	0.64	19.09	25.76	0.67	0.28	0.26	0.12	
5	0.18	0.20	0.36	0.52	0.38	1.10	12.80	15.30	0.64	0.30	0.24	0.12	
6	0.16	0.20	0.67	0.40	0.49	3.74	10.10	9.90	0.64	0.26	0.22	0.14	
7	0.16	0.22	0.67	0.43	0.58	3.00	10.10	8.70	0.58	0.26	0.18	0.16	
8	0.22	0.22	0.67	0.40	0.61	3.48	8.90	6.36	0.55	0.26	0.16	0.18	
9	0.24	0.26	4.79	0.36	0.55	4.30	7.58	6.12	0.55	0.26	0.14	0.20	
10	0.22	0.24	7.76	0.32	0.49	3.06	6.36	4.16	0.55	0.26	0.12	0.16	
11	0.22	0.24	2.52	0.32	0.43	2.46	6.04	3.48	0.55	0.26	0.10	0.10	
12	0.22	0.30	1.92	0.30	0.40	2.58	4.93	4.37	0.55	0.36	0.18	0.04	
13	0.26	0.55	0.95	0.30	0.38	3.81	6.36	4.65	0.52	0.28	0.18	0.00	
14	0.26	0.34	0.61	0.28	0.36	13.80	5.48	4.51	0.52	0.26	0.18	0.00	
15	0.34	0.22	0.58	0.26	0.40	8.80	4.30	3.60	0.52	0.26	0.18	0.00	
16	0.36	0.12	0.49	0.24	0.43	7.24	3.54	2.94	0.49	0.26	0.14	0.00	
17	0.30	0.04	0.46	0.26	0.40	5.16	3.00	2.52	0.40	0.26	0.12	0.00	
18	0.32	0.00	0.52	0.26	0.38	4.09	2.64	3.30	0.34	0.26	0.10	0.00	
19	0.28	0.00	5.00	0.18	0.49	3.18	3.18	2.64	0.34	0.26	0.08	0.00	
20	0.26	0.70	1.92	0.24	0.55	2.46	3.18	2.22	0.34	0.26	0.06	0.00	
21	0.24	0.40	0.90	0.38	0.46	1.92	2.58	1.86	0.34	0.26	0.06	0.00	
22	0.22	0.36	0.64	0.38	0.40	1.80	2.04	1.62	0.34	0.26	0.06	0.00	
23	0.20	0.30	0.58	0.38	0.40	1.56	1.86	1.50	0.32	0.24	0.08	0.00	
24	0.20	0.26	0.55	0.38	0.36	1.62	1.86	1.38	0.32	0.22	0.10	0.02	
25	0.18	0.12	0.43	0.36	5.00	6.68	2.16	1.26	0.32	0.22	0.12	0.04	
26	0.18	0.08	0.40	0.32	1.98	10.70	2.10	1.10	0.30	0.22	0.14	0.04	
27	0.18	0.10	0.40	0.30	1.10	28.30	1.86	1.00	0.30	0.22	0.16	0.10	
28	0.18	0.18	0.40	0.30	0.80	29.65	1.62	0.90	0.30	0.26	0.20	0.08	
29	0.20	0.20	0.38	0.28	0.70	19.74	1.44	0.90	0.30	0.26		0.04	
30	0.22	0.22	3.36	0.34	0.64	22.08	2.10	0.85	0.30	0.26		0.02	
31		0.24		0.32	0.58		4.72		0.30	0.20		0.00	
Total	6.76	7.25	39.70	11.00	21.00	198.24	264.09	136.29	14.36	8.12	3.98	2.02	712.81 CMSDAY
Mean	0.23	0.23	1.32	0.35	0.68	6.61	8.52	4.54	0.46	0.26	0.14	0.07	1.95 CMS
Max	0.36	0.70	7.76	0.90	5.00	29.65	50.05	25.76	0.80	0.36	0.26	0.20	50.05 CMS
Min	0.16	0.00	0.24	0.18	0.28	0.40	1.44	0.85	0.30	0.20	0.06	0.00	0.00 CMS
Runoff	0.584	0.626	3.430	0.950	1.814	17.128	22.817	11.775	1.241	0.702	0.344	0.175	61.587 MCM

Momentary Peak 75.00 CMS, at 6.01 M (A.D), at 18.00 Hours, on Oct 2, 1996

Runoff Yield 15.26 Liters/Second/Square KM, Momentary Peak Yield 585.938 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

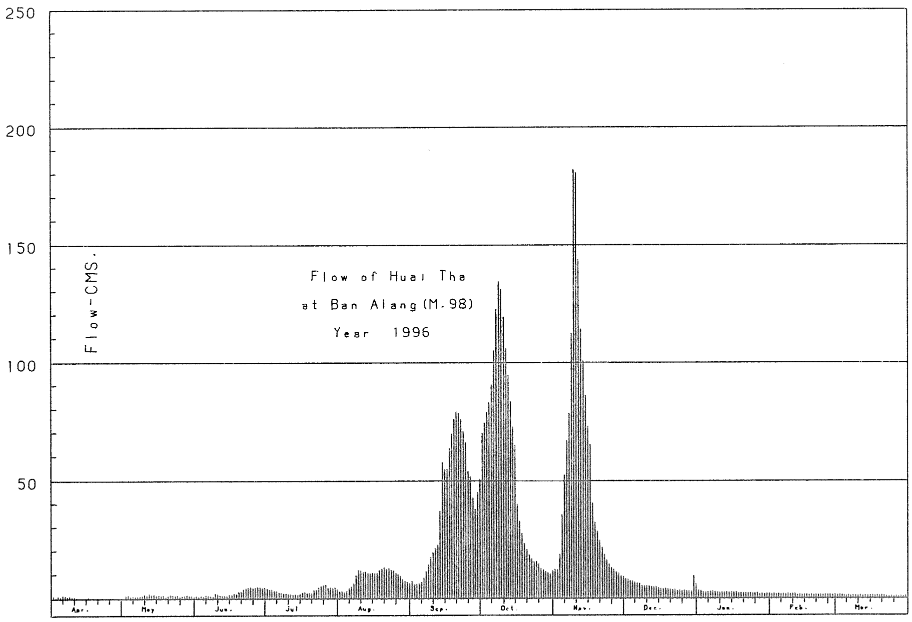
Huai Tha at Ban Alang, Si Sa Ket (M.98)

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, Amphoe Muang, Si Sa Ket.
Drainage Area	1,092 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 right bank at the footpath of the bridge.
Elevation	+8.568 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	1979 - 1981, 1987 to date.
Rated by Float	-
Rated by Current Meter	1979 - 1981, 1987 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the weirs about 100 meters upstream and downstream from the gage site. Stage-discharge relation defined by 51 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.93	2.91	2.93	3.02	2.99	3.10	4.35	3.22	3.13	3.00	2.96	2.95	
2	2.92	2.94	2.93	3.01	2.99	3.07	4.57	3.22	3.12	3.00	2.96	2.95	
3	2.93	2.94	2.93	3.01	2.98	3.07	4.79	3.35	3.11	2.98	2.96	2.95	
4	2.93	2.93	2.93	3.00	2.99	3.08	4.96	3.64	3.10	2.98	2.96	2.94	
5	2.94	2.93	2.94	2.99	3.03	3.09	5.29	3.86	3.09	2.98	2.96	2.94	
6	2.94	2.93	2.94	2.98	3.04	3.14	5.76	4.15	3.08	2.99	2.96	2.94	
7	2.93	2.93	2.93	2.97	3.08	3.20	6.17	4.77	3.08	2.99	2.96	2.94	
8	2.93	2.93	2.93	2.97	3.16	3.27	6.36	5.96	3.05	2.99	2.96	2.94	
9	2.93	2.94	2.96	2.96	3.22	3.33	6.31	6.79	3.05	2.98	2.96	2.94	
10	2.92	2.95	2.96	2.96	3.21	3.37	6.12	6.78	3.05	2.98	2.96	2.94	
11	2.92	2.94	2.94	2.95	3.20	3.40	5.80	6.48	3.05	2.98	2.96	2.94	
12	2.91	2.96	2.94	2.95	3.20	3.43	5.43	6.01	3.04	2.98	2.95	2.94	
13	2.91	2.95	2.93	2.95	3.19	3.66	4.99	5.64	3.04	2.98	2.95	2.94	
14	2.91	2.95	2.94	2.95	3.18	3.92	4.49	5.10	3.04	2.98	2.95	2.94	
15	2.92	2.94	2.95	2.95	3.19	3.89	4.01	4.50	3.03	2.98	2.95	2.94	
16	2.92	2.94	2.95	2.98	3.18	3.89	3.70	4.04	3.02	2.98	2.95	2.94	
17	2.92	2.94	2.96	2.98	3.19	3.99	3.60	3.71	3.02	2.98	2.95	2.94	
18	2.91	2.94	2.96	2.97	3.21	4.32	3.51	3.59	3.02	2.97	2.95	2.94	
19	2.91	2.93	2.98	2.97	3.23	4.66	3.44	3.53	3.02	2.97	2.95	2.94	
20	2.91	2.93	2.99	2.97	3.24	4.79	3.39	3.46	3.01	2.97	2.95	2.94	
21	2.91	2.95	3.01	3.00	3.23	4.76	3.35	3.41	3.01	2.97	2.95	2.94	
22	2.91	2.94	3.03	3.01	3.23	4.66	3.32	3.35	3.01	2.97	2.95	2.93	
23	2.90	2.94	3.03	3.03	3.22	4.39	3.29	3.31	3.00	2.97	2.95	2.93	
24	2.90	2.94	3.04	3.05	3.21	4.08	3.30	3.27	3.00	2.97	2.95	2.93	
25	2.89	2.93	3.03	3.06	3.19	3.88	3.27	3.24	3.00	2.97	2.95	2.93	
26	2.89	2.93	3.03	3.06	3.17	3.85	3.23	3.22	3.00	2.97	2.95	2.93	
27	2.89	2.94	3.04	3.03	3.16	3.74	3.22	3.20	3.00	2.96	2.95	2.93	
28	2.88	2.94	3.03	3.03	3.12	3.67	3.20	3.18	2.99	2.96	2.95	2.93	
29	2.89	2.94	3.03	3.03	3.11	3.77	3.19	3.16	2.99	2.96		2.93	
30	2.91	2.93	3.03	3.03	3.09	3.84	3.17	3.15	3.16	2.96		2.93	
31		2.93		3.01	3.08		3.21		3.07	2.96		2.95	
Mean	2.91	2.94	2.97	2.99	3.15	3.74	4.28	4.14	3.04	2.98	2.95	2.94	
Max	2.94	2.96	3.04	3.06	3.24	4.79	6.36	6.79	3.16	3.00	2.96	2.95	6.79
Min	2.88	2.91	2.93	2.95	2.98	3.07	3.17	3.15	2.99	2.96	2.95	2.93	2.88

Annual Max Momentary Gage Height	6.88 M (A.D), at 1.00 Hours, on Nov 10, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed -0.11 M (A.D)
Left Bank Elevation	6.98 M (A.D)
Right Bank Elevation	7.10 M (A.D), Drainage Area 1092 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	0.35	1.05	4.28	3.15	7.40	70.45	12.40	8.63	3.50	2.10	1.75	
2	0.00	1.40	1.05	3.89	3.15	6.23	74.60	12.40	8.22	3.50	2.10	1.75	
3	1.05	1.40	1.05	3.89	2.80	6.23	79.28	18.70	7.81	2.80	2.10	1.75	
4	1.05	1.05	1.05	3.50	3.15	6.62	83.08	35.80	7.40	2.80	2.10	1.40	
5	1.40	1.05	1.40	3.15	4.67	7.01	90.95	52.60	7.01	2.80	2.10	1.40	
6	1.40	1.05	1.40	2.80	5.06	9.04	105.10	67.25	6.62	3.15	2.10	1.40	
7	1.05	1.05	1.05	2.45	6.62	11.50	122.76	78.84	6.62	3.15	2.10	1.40	
8	1.05	1.05	1.05	2.45	9.86	14.65	134.70	112.54	5.45	3.15	2.10	1.40	
9	1.05	1.40	2.10	2.10	12.40	17.62	131.20	182.36	5.45	2.80	2.10	1.40	
10	0.70	1.75	2.10	2.10	11.95	19.78	119.86	180.72	5.45	2.80	2.10	1.40	
11	0.70	1.40	1.40	1.75	11.50	21.40	106.50	143.82	5.45	2.80	2.10	1.40	
12	0.35	2.10	1.40	1.75	11.50	23.08	94.74	114.56	5.06	2.80	1.75	1.40	
13	0.35	1.75	1.05	1.75	11.09	37.20	83.77	101.08	5.06	2.80	1.75	1.40	
14	0.35	1.75	1.40	1.75	10.68	57.80	73.01	86.30	5.06	2.80	1.75	1.40	
15	0.70	1.40	1.75	1.75	11.09	55.15	65.15	73.20	4.67	2.80	1.75	1.40	
16	0.70	1.40	1.75	2.80	10.68	55.15	40.00	65.60	4.28	2.80	1.75	1.40	
17	0.70	1.40	2.10	2.80	11.09	64.10	33.00	40.75	4.28	2.80	1.75	1.40	
18	0.35	1.40	2.10	2.45	11.95	69.94	27.60	32.40	4.28	2.45	1.75	1.40	
19	0.35	1.05	2.80	2.45	12.85	76.46	23.64	28.80	4.28	2.45	1.75	1.40	
20	0.35	1.05	3.15	2.45	13.30	79.28	20.86	24.76	3.89	2.45	1.75	1.40	
21	0.35	1.75	3.89	3.50	12.85	78.62	18.70	21.96	3.89	2.45	1.75	1.40	
22	0.35	1.40	4.67	3.89	12.85	76.46	17.08	18.70	3.89	2.45	1.75	1.05	
23	0.00	1.40	4.67	4.67	12.40	71.13	15.55	16.54	3.50	2.45	1.75	1.05	
24	0.00	1.40	5.06	5.45	11.95	66.20	16.00	14.65	3.50	2.45	1.75	1.05	
25	0.00	1.05	4.67	5.84	11.09	54.30	14.65	13.30	3.50	2.45	1.75	1.05	
26	0.00	1.05	4.67	5.84	10.27	51.75	12.85	12.40	3.50	2.45	1.75	1.05	
27	0.00	1.40	5.06	4.67	9.86	43.00	12.40	11.50	3.50	2.10	1.75	1.05	
28	0.00	1.40	4.67	4.67	8.22	37.90	11.50	10.68	3.15	2.10	1.75	1.05	
29	0.00	1.40	4.67	4.67	7.81	45.25	11.09	9.86	3.15	2.10		1.05	
30	0.35	1.05	4.67	4.67	7.01	50.90	10.27	9.45	9.86	2.10		1.05	
31		1.05		3.89	6.62		11.95		6.23	2.10		1.75	
Total	15.75	40.60	78.90	104.07	289.47	1221.15	1732.29	1603.92	162.64	82.60	52.85	41.65	5425.89 CMSDAY
Mean	0.53	1.31	2.63	3.36	9.34	40.71	55.88	53.46	5.25	2.66	1.89	1.34	14.87 CMS
Max	1.40	2.10	5.06	5.84	13.30	79.28	134.70	182.36	9.86	3.50	2.10	1.75	182.36 CMS
Min	0.00	0.35	1.05	1.75	2.80	6.23	10.27	9.45	3.15	2.10	1.75	1.05	0.00 CMS
Runoff	1.361	3.508	6.817	8.992	25.010	105.507	149.670	138.579	14.052	7.137	4.566	3.599	468.797 MCM

Momentary Peak 201.20 CMS, at 6.88 M (A.D), at 1.00 Hours, on Nov 10, 1996

Runoff Yield 13.61 Liters/Second/Square KM, Momentary Peak Yield 184.249 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

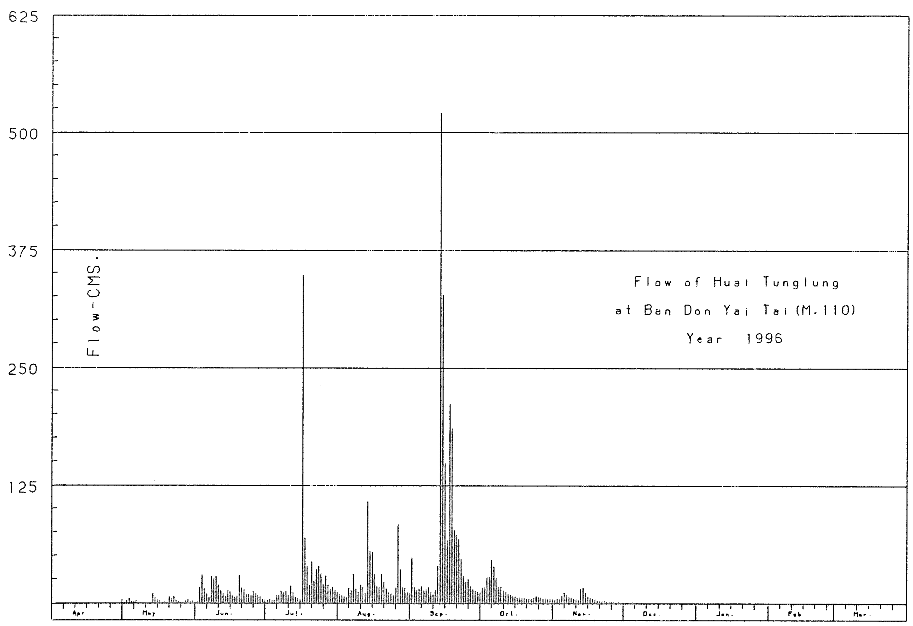
Huai Tunglung at Ban Don Yai Tai, Ubon Ratchathani (M.110)

Location	Lat. 15°-26′-33″ N., Long. 105°-18′-31″ E., on left bank at the bridge on Trakan Phutphon - Khong Chiam Highway, Amphoe Si Muang Mai, Ubon Ratchathani.
Drainage Area	556 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 footpath of the bridge.
Elevation	+10.400 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	1982 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.36 m.(A.D.), records are channel flow only.
General Description	Records very good. Stream gaging began on Apr.16,96. Stage-discharge relation defined by 109 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	0.18	0.20	0.29	0.54	1.49	0.86	0.32	0.18	0.08	0.02	-0.04	
2	*******	0.25	0.89	0.31	0.52	0.90	0.89	0.33	0.17	0.08	0.02	-0.04	
3	*******	0.38	1.21	0.28	0.44	0.74	1.16	0.34	0.16	0.06	0.04	-0.04	
4	*******	0.22	0.83	0.27	0.41	0.83	1.17	0.48	0.16	0.09	0.02	-0.05	
5	*******	0.20	0.58	0.50	0.83	0.93	1.45	0.66	0.16	0.07	0.05	-0.05	
6	*******	0.25	0.40	0.51	0.73	0.74	1.35	0.55	0.16	0.06	0.03	-0.05	
7	*******	0.05	1.18	0.72	1.22	0.77	1.15	0.46	0.15	0.07	0.03	-0.05	
8	*******	0.10	1.14	0.64	0.83	0.90	0.91	0.40	0.14	0.07	0.03	-0.06	
9	*******	0.09	1.18	0.71	0.65	0.65	0.91	0.35	0.14	0.07	0.02	-0.06	
10	*******	0.12	0.99	0.50	1.01	0.56	0.76	0.32	0.15	0.06	0.02	-0.06	
11	*******	0.21	0.74	0.98	0.87	0.74	0.66	0.32	0.13	0.07	0.01	-0.06	
12	*******	0.13	0.57	0.61	0.63	1.35	0.58	0.80	0.13	0.05	0.01	-0.06	
13	*******	0.60	0.46	0.42	2.19	4.50	0.52	0.89	0.13	0.05	0.00	-0.06	
14	*******	0.39	0.74	0.36	1.60	3.79	0.48	0.63	0.13	0.05	-0.01	-0.07	
15	*******	0.30	0.69	0.30	1.59	2.58	0.45	0.47	0.13	0.06	-0.01	-0.07	
16	-0.05	0.25	0.51	3.88	1.21	1.74	0.42	0.39	0.12	0.05	-0.01	0.00	
17	-0.06	0.20	0.43	1.78	0.94	3.06	0.40	0.36	0.11	0.05	-0.01	0.00	
18	-0.06	0.16	0.47	1.34	0.87	2.87	0.39	0.32	0.11	0.05	-0.01	0.02	
19	-0.07	0.14	1.20	0.98	1.22	1.88	0.37	0.29	0.11	0.05	-0.01	0.00	
20	-0.04	0.45	0.85	1.43	1.07	1.81	0.35	0.26	0.11	0.05	-0.01	-0.01	
21	0.01	0.34	0.77	1.10	0.85	1.76	0.35	0.26	0.10	0.05	-0.02	-0.03	
22	0.02	0.47	0.57	1.29	0.67	1.48	0.34	0.25	0.10	0.05	-0.03	-0.04	
23	0.13	0.26	0.55	1.36	0.58	1.19	0.38	0.24	0.09	0.03	-0.03	-0.04	
24	0.06	0.21	0.52	1.22	0.52	1.07	0.48	0.23	0.09	0.06	-0.02	-0.04	
25	0.03	0.18	0.69	1.02	0.88	1.14	0.45	0.23	0.09	0.06	-0.02	-0.05	
26	0.02	0.17	0.62	1.19	1.94	0.94	0.40	0.22	0.10	0.05	-0.02	-0.06	
27	-0.01	0.24	0.49	0.99	1.30	0.80	0.36	0.20	0.09	0.04	-0.03	-0.05	
28	-0.02	0.30	0.42	0.80	0.89	0.70	0.35	0.19	0.09	0.04	-0.04	-0.06	
29	0.03	0.23	0.33	0.89	0.85	0.67	0.34	0.19	0.09	0.03		-0.07	
30	0.30	0.23	0.28	0.77	0.65	0.63	0.33	0.19	0.09	0.03		-0.09	
31		0.17		0.64	0.58		0.32		0.07	0.03		-0.05	
Mean	*******	0.24	0.68	0.91	0.94	1.44	0.62	0.37	0.12	0.06	0.00	-0.04	
Max	0.30	0.60	1.21	3.88	2.19	4.50	1.45	0.89	0.18	0.09	0.05	0.02	4.50
Min	*******	0.05	0.20	0.27	0.41	0.56	0.32	0.19	0.07	0.03	-0.04	-0.09	*******

Annual Max Momentary Gage Height 4.95 M (A.D), at 18.00 Hours, on Sep 13, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.03 M (A.D)
Left Bank Elevation 4.35 M (A.D)
Right Bank Elevation 5.04 M (A.D), Drainage Area 556 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	1.80	2.00	4.03	9.65	48.96	16.85	4.70	1.80	0.88	0.52	0.32	
2	*******	3.13	17.52	4.48	9.20	17.75	17.52	4.93	1.70	0.88	0.52	0.32	
3	*******	6.05	31.04	3.80	7.40	14.15	27.84	5.15	1.60	0.76	0.64	0.32	
4	*******	2.45	16.18	3.58	6.73	16.18	28.48	8.30	1.60	0.94	0.52	0.30	
5	*******	2.00	10.55	8.75	16.18	18.43	46.40	12.35	1.60	0.82	0.70	0.30	
6	*******	3.13	6.50	8.98	13.93	14.15	40.00	9.88	1.60	0.76	0.58	0.30	
7	*******	0.70	29.12	13.70	31.68	14.82	27.20	7.85	1.50	0.82	0.58	0.30	
8	*******	1.00	26.56	11.90	16.18	17.75	17.98	6.50	1.40	0.82	0.58	0.28	
9	*******	0.94	29.12	13.47	12.13	12.13	17.98	5.38	1.40	0.82	0.52	0.28	
10	*******	1.20	19.77	8.75	20.40	10.10	14.60	4.70	1.50	0.76	0.52	0.28	
11	*******	2.23	14.15	19.55	17.07	14.15	12.35	4.70	1.30	0.82	0.46	0.28	
12	*******	1.30	10.32	11.23	11.68	40.00	10.55	15.50	1.30	0.70	0.46	0.28	
13	*******	11.00	7.85	6.95	109.00	522.00	9.20	17.52	1.30	0.70	0.40	0.28	
14	*******	6.27	14.15	5.60	56.00	328.20	8.30	11.68	1.30	0.70	0.38	0.26	
15	*******	4.25	13.03	4.25	55.36	149.60	7.62	8.08	1.30	0.76	0.38	0.26	
16	0.30	3.13	8.98	349.20	31.04	67.20	6.95	6.27	1.20	0.70	0.38	0.40	
17	0.28	2.00	7.18	70.40	18.65	212.40	6.50	5.60	1.10	0.70	0.38	0.40	
18	0.28	1.60	8.08	39.36	17.07	185.80	6.27	4.70	1.10	0.70	0.38	0.52	
19	0.26	1.40	30.40	19.55	31.68	78.40	5.83	4.03	1.10	0.70	0.38	0.40	
20	0.32	7.62	16.63	45.12	22.80	72.80	5.38	3.35	1.10	0.70	0.38	0.38	
21	0.46	5.15	14.82	24.00	16.63	68.80	5.38	3.35	1.00	0.70	0.36	0.34	
22	0.52	8.08	10.32	36.16	12.58	48.32	5.15	3.13	1.00	0.70	0.34	0.32	
23	1.30	3.35	9.88	40.64	10.55	29.76	6.05	2.90	0.94	0.58	0.34	0.32	
24	0.76	2.23	9.20	31.68	9.20	22.80	8.30	2.68	0.94	0.76	0.36	0.32	
25	0.58	1.80	13.03	20.80	17.30	26.56	7.62	2.68	0.94	0.76	0.36	0.30	
26	0.52	1.70	11.45	29.76	84.00	18.65	6.50	2.45	1.00	0.70	0.36	0.28	
27	0.38	2.90	8.53	19.77	36.80	15.50	5.60	2.00	0.94	0.64	0.34	0.30	
28	0.36	4.25	6.95	15.50	17.52	13.25	5.38	1.90	0.94	0.64	0.32	0.28	
29	0.58	2.68	4.93	17.52	16.63	12.58	5.15	1.90	0.94	0.58		0.26	
30	4.25	2.68	3.80	14.82	12.13	11.68	4.93	1.90	0.94	0.58		0.22	
31		1.70		11.90	10.55		4.70		0.82	0.58		0.30	
Total	*******	99.72	412.04	915.20	757.72	2122.87	398.56	176.06	38.20	22.66	12.44	9.70	******** CMSDAY
Mean	*******	3.22	13.73	29.52	24.44	70.76	12.86	5.87	1.23	0.73	0.44	0.31	******** CMS
Max	4.25	11.00	31.04	349.20	109.00	522.00	46.40	17.52	1.80	0.94	0.70	0.52	522.00 CMS
Min	*******	0.70	2.00	3.58	6.73	10.10	4.70	1.90	0.82	0.58	0.32	0.22	******** CMS
Runoff	*******	8.616	35.600	79.073	65.467	183.416	34.436	15.212	3.300	1.958	1.075	0.838	******** MCM

Momentary Peak 723.00 CMS, at 4.95 M (A.D), at 18.00 Hours, on Sep 13, 1996

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 1300.360 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

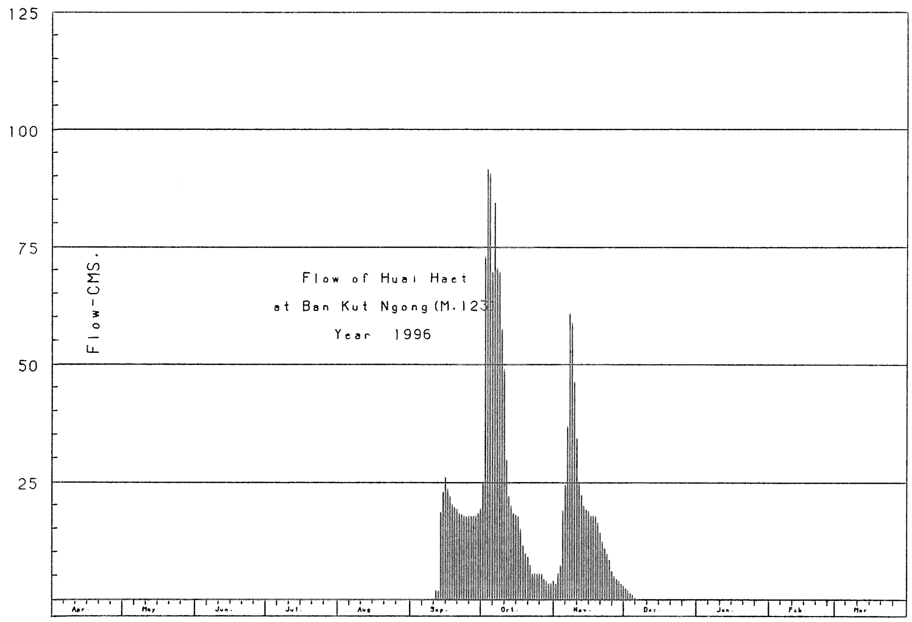
Huai Haet at Ban Kut Ngong, Si Sa Ket (M.123)

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.-Highways Dept.
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 0f 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 effect.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.29 m.(A.D.), records are channel only.
General Description	Records fair. Flow effected by the weir about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 12 discharge made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.47	3.47	3.84	3.86	3.85	3.83	4.72	3.97	3.95	3.85	3.86	3.84	
2	3.47	3.47	3.85	3.85	3.85	3.83	5.55	4.01	3.94	3.85	3.86	3.84	
3	3.47	3.46	3.86	3.84	3.84	3.83	5.75	4.04	3.93	3.85	3.86	3.84	
4	3.47	3.47	3.85	3.84	3.84	3.83	5.74	4.40	3.92	3.83	3.86	3.84	
5	3.47	3.47	3.85	3.84	3.87	3.83	5.51	4.70	3.91	3.83	3.86	3.80	
6	3.47	3.48	3.85	3.84	3.85	3.83	5.68	5.00	3.90	3.83	3.86	3.80	
7	3.47	3.49	3.83	3.84	3.85	3.85	5.52	5.40	3.90	3.83	3.85	3.80	
8	3.47	3.50	3.83	3.84	3.85	3.84	5.51	5.37	3.88	3.83	3.85	3.79	
9	3.38	3.51	3.83	3.84	3.84	3.84	5.35	5.19	3.86	3.82	3.85	3.79	
10	3.36	3.52	3.84	3.83	3.84	3.85	5.23	4.95	3.87	3.82	3.85	3.79	
11	3.36	3.52	3.84	3.83	3.84	3.94	4.85	4.72	3.88	3.81	3.85	3.79	
12	3.36	3.58	3.84	3.83	3.85	3.94	4.62	4.63	3.88	3.81	3.85	3.79	
13	3.36	3.88	3.83	3.84	3.85	4.37	4.50	4.50	3.88	3.81	3.85	3.79	
14	3.36	3.85	3.85	3.84	3.86	4.65	4.35	4.44	3.89	3.81	3.85	3.79	
15	3.36	3.85	3.86	3.84	3.85	4.75	4.30	4.39	3.89	3.81	3.85	3.80	
16	3.36	3.84	3.86	3.84	3.86	4.67	4.24	4.30	3.88	3.81	3.85	3.80	
17	3.36	3.83	3.87	3.83	3.86	4.62	4.16	4.25	3.88	3.80	3.85	3.80	
18	3.36	3.83	3.86	3.83	3.86	4.52	4.11	4.22	3.88	3.80	3.85	3.80	
19	3.35	3.83	3.86	3.84	3.85	4.48	4.08	4.18	3.88	3.80	3.85	3.80	
20	3.35	3.83	3.85	3.85	3.85	4.43	4.07	4.15	3.88	3.80	3.85	3.80	
21	3.35	3.83	3.85	3.86	3.85	4.34	4.04	4.12	3.88	3.80	3.85	3.80	
22	3.35	3.83	3.84	3.86	3.85	4.33	4.01	4.10	3.87	3.80	3.85	3.80	
23	3.35	3.83	3.85	3.86	3.85	4.23	4.01	4.08	3.87	3.80	3.85	3.80	
24	3.35	3.84	3.85	3.85	3.84	4.20	4.01	4.06	3.86	3.80	3.85	3.80	
25	3.35	3.84	3.85	3.85	3.85	4.20	4.01	4.02	3.86	3.80	3.85	3.80	
26	3.35	3.83	3.85	3.85	3.86	4.25	4.01	4.00	3.86	3.80	3.85	3.80	
27	3.35	3.83	3.85	3.85	3.87	4.25	3.99	3.99	3.86	3.79	3.85	3.80	
28	3.35	3.83	3.84	3.86	3.87	4.25	3.98	3.98	3.85	3.79	3.84	3.80	
29	3.35	3.83	3.86	3.87	3.83	4.35	3.97	3.97	3.85	3.79		3.80	
30	3.35	3.83	3.86	3.87	3.83	4.44	3.97	3.96	3.85	3.79		3.80	
31		3.84		3.87	3.83		3.98		3.85	3.79		3.80	
Mean	3.39	3.70	3.85	3.85	3.85	4.19	4.57	4.37	3.88	3.81	3.85	3.80	
Max	3.47	3.88	3.87	3.87	3.87	4.75	5.75	5.40	3.95	3.85	3.86	3.84	5.75
Min	3.35	3.46	3.83	3.83	3.83	3.83	3.97	3.96	3.85	3.79	3.84	3.79	3.35

Annual Max Momentary Gage Height 5.75 M (A.D), at 6.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.37 M (A.D)
Left Bank Elevation 5.65 M (A.D)
Right Bank Elevation 4.28 M (A.D), Drainage Area 387 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

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	25.16	3.50	2.50	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	73.00	5.60	2.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	91.75	7.40	1.50	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	90.70	19.00	1.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	69.80	24.50	0.50	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	84.60	37.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	70.60	61.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	69.80	58.90	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	57.50	46.50	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	49.10	34.50	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	2.00	29.90	25.16	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	2.00	22.10	22.40	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	18.70	20.00	20.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	23.00	18.50	19.40	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	26.15	18.00	18.90	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	23.60	17.88	18.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	22.10	15.08	17.90	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	20.30	11.68	17.84	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	19.80	9.80	16.44	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	19.30	9.20	14.40	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	18.40	7.40	12.36	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	18.30	5.60	11.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	17.86	5.60	9.80	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	17.80	5.60	8.60	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	17.80	5.60	6.20	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	17.90	5.60	5.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	17.90	4.50	4.50	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	17.90	4.00	4.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	18.50	3.50	3.50	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.00	19.40	3.50	3.00	0.00	0.00		0.00	
31		0.00		0.00	0.00		4.00		0.00	0.00		0.00	
Total	0.00	0.00	0.00	0.00	0.00	358.71	909.05	556.30	7.50	0.00	0.00	0.00	1831.56 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	11.96	29.32	18.54	0.24	0.00	0.00	0.00	5.02 CMS
Max	0.00	0.00	0.00	0.00	0.00	26.15	91.75	61.00	2.50	0.00	0.00	0.00	91.75 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	3.50	3.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.000	0.000	0.000	30.993	78.542	48.064	0.648	0.000	0.000	0.000	158.247 MCM

Momentary Peak 91.75 CMS, at 5.75 M (A.D), at 6.00 Hours, on Oct 3, 1996

Runoff Yield 12.97 Liters/Second/Square KM, Momentary Peak Yield 237.080 Liters/Second/Square KM

WATER YEAR 1996

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, 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 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 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.

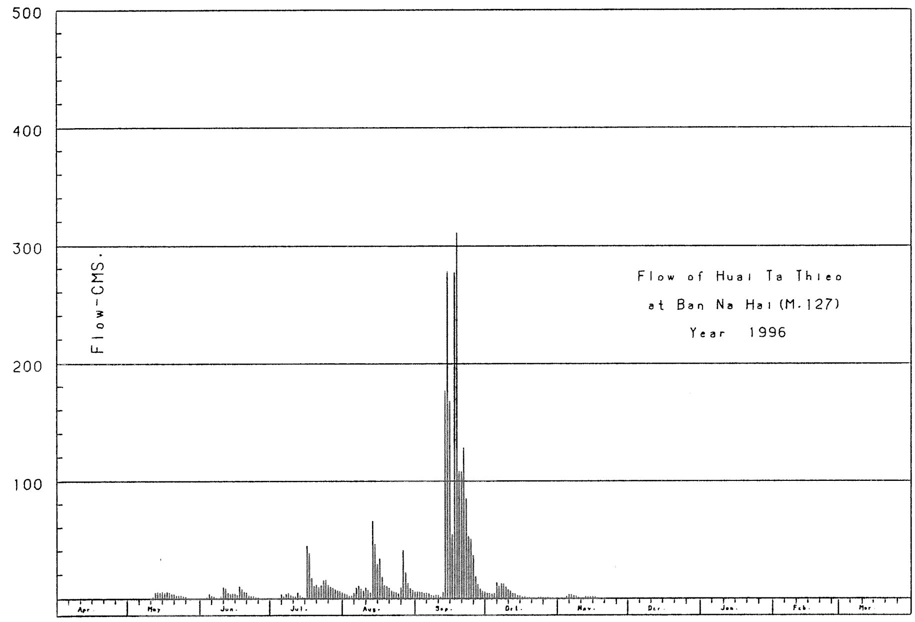
Overbank Flow Conditions Overbank flow starts at elevation + 6.54 m.(A.D.), records are channel flow only.

General Description Records good. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.96	1.20	1.45	1.36	1.73	1.80	1.76	1.49	1.33	1.26	1.23	1.19	
2	0.96	1.20	1.44	1.36	1.68	1.81	1.73	1.47	1.32	1.26	1.23	1.19	
3	0.95	1.20	1.52	1.35	1.63	1.77	1.72	1.49	1.31	1.26	1.25	1.18	
4	0.94	1.18	1.73	1.35	1.62	1.76	1.72	1.60	1.30	1.28	1.25	1.18	
5	0.94	1.18	1.64	1.70	1.75	1.75	2.08	1.70	1.30	1.27	1.25	1.17	
6	0.94	1.17	1.58	1.57	1.94	1.74	1.99	1.68	1.29	1.27	1.25	1.16	
7	0.93	1.16	1.52	1.72	2.01	1.65	2.06	1.66	1.30	1.26	1.25	1.15	
8	0.93	1.21	1.46	1.74	1.92	1.65	2.04	1.62	1.30	1.26	1.26	1.15	
9	0.93	1.21	1.61	1.66	1.86	1.68	1.99	1.57	1.29	1.25	1.25	1.15	
10	0.92	1.36	1.97	1.59	1.96	1.65	1.91	1.52	1.30	1.25	1.25	1.15	
11	0.92	1.58	1.93	1.58	1.86	1.59	1.83	1.51	1.30	1.24	1.27	1.15	
12	0.91	1.78	1.77	1.78	1.78	1.80	1.75	1.59	1.30	1.24	1.28	1.14	
13	0.91	1.78	1.70	1.64	2.96	4.83	1.71	1.60	1.34	1.24	1.28	1.14	
14	0.90	1.77	1.75	1.57	2.55	6.28	1.66	1.57	1.30	1.24	1.27	1.14	
15	0.89	1.79	1.73	1.50	2.32	4.71	1.63	1.61	1.29	1.27	1.26	1.13	
16	0.89	1.76	1.65	2.53	2.36	2.72	1.60	1.57	1.28	1.27	1.26	1.12	
17	0.88	1.80	2.00	2.39	2.18	6.27	1.59	1.52	1.28	1.27	1.25	1.12	
18	0.87	1.76	1.90	2.16	2.01	6.72	1.57	1.43	1.27	1.26	1.24	1.11	
19	0.87	1.72	1.81	2.00	2.00	3.73	1.54	1.40	1.26	1.26	1.24	1.11	
20	0.94	1.69	1.76	2.02	1.94	3.73	1.49	1.37	1.26	1.25	1.24	1.11	
21	1.05	1.66	1.66	1.95	1.86	4.06	1.47	1.36	1.25	1.24	1.23	1.10	
22	1.04	1.65	1.63	2.02	1.80	3.34	1.46	1.32	1.24	1.24	1.22	1.10	
23	1.04	1.64	1.60	2.12	1.76	2.69	1.54	1.30	1.25	1.24	1.21	1.09	
24	1.03	1.62	1.55	2.12	1.74	2.64	1.59	1.29	1.26	1.24	1.21	1.08	
25	1.02	1.57	1.52	2.02	1.96	2.38	1.55	1.31	1.26	1.24	1.20	1.07	
26	1.01	1.40	1.50	1.98	2.43	2.19	1.54	1.30	1.26	1.24	1.20	1.07	
27	1.00	1.33	1.50	1.95	2.24	2.03	1.54	1.30	1.25	1.24	1.20	1.07	
28	1.04	1.35	1.46	1.88	2.05	1.93	1.53	1.30	1.25	1.24	1.20	1.07	
29	1.13	1.38	1.41	1.86	1.94	1.85	1.50	1.30	1.25	1.24		1.06	
30	1.20	1.45	1.36	1.81	1.86	1.79	1.50	1.31	1.26	1.24		1.05	
31		1.51		1.76	1.81		1.50		1.27	1.24		1.14	
Mean	0.96	1.49	1.64	1.81	1.98	2.82	1.68	1.47	1.28	1.25	1.24	1.12	
Max	1.20	1.80	2.00	2.53	2.96	6.72	2.08	1.70	1.34	1.28	1.28	1.19	6.72
Min	0.87	1.16	1.36	1.35	1.62	1.59	1.46	1.29	1.24	1.24	1.20	1.05	0.87

Annual Max Momentary Gage Height 7.69 M (A.D), at 18.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.79 M (A.D)
Left Bank Elevation 6.53 M (A.D)
Right Bank Elevation 6.63 M (A.D), Drainage Area 414 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.80	0.48	4.60	6.00	5.20	0.96	0.39	0.18	0.09	0.00	
2	0.00	0.00	0.76	0.48	3.60	6.20	4.60	0.88	0.36	0.18	0.09	0.00	
3	0.00	0.00	1.20	0.45	2.60	5.40	4.40	0.96	0.33	0.18	0.15	0.00	
4	0.00	0.00	4.60	0.45	2.40	5.20	4.40	2.00	0.30	0.24	0.15	0.00	
5	0.00	0.00	2.80	4.00	5.00	5.00	14.20	4.00	0.30	0.21	0.15	0.00	
6	0.00	0.00	1.80	1.70	9.20	4.80	10.70	3.60	0.27	0.21	0.15	0.00	
7	0.00	0.00	1.20	4.40	11.40	3.00	13.40	3.20	0.30	0.18	0.15	0.00	
8	0.00	0.03	0.84	4.80	8.60	3.00	12.60	2.40	0.30	0.18	0.18	0.00	
9	0.00	0.03	2.20	3.20	7.20	3.60	10.70	1.70	0.27	0.15	0.15	0.00	
10	0.00	0.48	10.10	1.90	9.80	3.00	8.30	1.20	0.30	0.15	0.15	0.00	
11	0.00	1.80	8.90	1.80	7.20	1.90	6.60	1.10	0.30	0.12	0.21	0.00	
12	0.00	5.60	5.40	5.60	5.60	6.00	5.00	1.90	0.30	0.12	0.24	0.00	
13	0.00	5.60	4.00	2.80	67.00	177.10	4.20	2.00	0.42	0.12	0.24	0.00	
14	0.00	5.40	5.00	1.70	46.50	278.60	3.20	1.70	0.30	0.12	0.21	0.00	
15	0.00	5.80	4.60	1.00	29.60	168.70	2.60	2.20	0.27	0.21	0.18	0.00	
16	0.00	5.20	3.00	45.50	34.80	55.00	2.00	1.70	0.24	0.21	0.18	0.00	
17	0.00	6.00	11.00	38.70	19.00	277.90	1.90	1.20	0.24	0.21	0.15	0.00	
18	0.00	5.20	8.00	18.00	11.40	311.60	1.70	0.72	0.21	0.18	0.12	0.00	
19	0.00	4.40	6.20	11.00	11.00	108.80	1.40	0.60	0.18	0.18	0.12	0.00	
20	0.00	3.80	5.20	11.80	9.20	108.80	0.96	0.51	0.18	0.15	0.12	0.00	
21	0.00	3.20	3.20	9.50	7.20	128.60	0.88	0.48	0.15	0.12	0.09	0.00	
22	0.00	3.00	2.60	11.80	6.00	86.00	0.84	0.36	0.12	0.12	0.06	0.00	
23	0.00	2.80	2.00	16.00	5.20	53.50	1.40	0.30	0.15	0.12	0.03	0.00	
24	0.00	2.40	1.50	16.00	4.80	51.00	1.90	0.27	0.18	0.12	0.03	0.00	
25	0.00	1.70	1.20	11.80	9.80	37.40	1.50	0.33	0.18	0.12	0.00	0.00	
26	0.00	0.60	1.00	10.40	41.20	19.50	1.40	0.30	0.18	0.12	0.00	0.00	
27	0.00	0.39	1.00	9.50	22.80	12.20	1.40	0.30	0.15	0.12	0.00	0.00	
28	0.00	0.45	0.84	7.60	13.00	8.90	1.30	0.30	0.15	0.12	0.00	0.00	
29	0.00	0.54	0.64	7.20	9.20	7.00	1.00	0.30	0.15	0.12		0.00	
30	0.00	0.80	0.48	6.20	7.20	5.80	1.00	0.33	0.18	0.12		0.00	
31		1.10		5.20	6.20		1.00		0.21	0.12		0.00	
Total	0.00	66.32	102.06	270.96	438.30	1949.50	131.68	37.80	7.56	4.80	3.39	0.00	3012.37 CMSDAY
Mean	0.00	2.14	3.40	8.74	14.14	64.98	4.25	1.26	0.24	0.15	0.12	0.00	8.25 CMS
Max	0.00	6.00	11.00	45.50	67.00	311.60	14.20	4.00	0.42	0.24	0.24	0.00	311.60 CMS
Min	0.00	0.00	0.48	0.45	2.40	1.90	0.84	0.27	0.12	0.12	0.00	0.00	0.00 CMS
Runoff	0.000	5.730	8.818	23.411	37.869	168.437	11.377	3.266	0.653	0.415	0.293	0.000	260.269 MCM

Momentary Peak 390.10 CMS, at 7.69 M (A.D), at 18.00 Hours, on Sep 17, 1996

Runoff Yield 19.93 Liters/Second/Square KM, Momentary Peak Yield 942.271 Liters/Second/Square KM

WATER YEAR 1996

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, 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 Fairly stable.

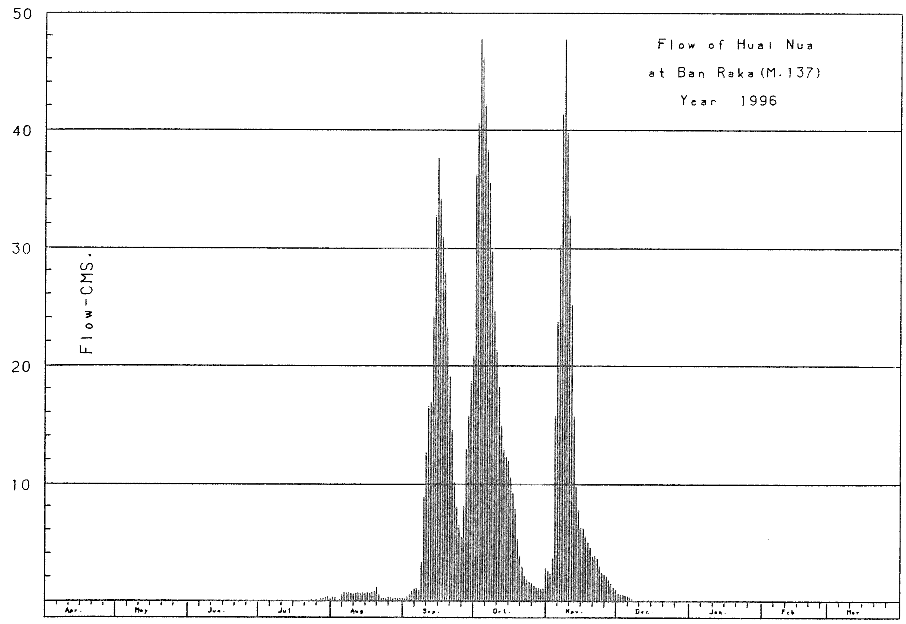
Overbank Flow Conditions Overbank flow starts at elevation +1.51 m.(A.D.) and is included.

General Description Records fair. Flow effected by the weir about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.72	1.00	0.90	1.23	1.22	2.25	1.39	1.26	1.20	1.05	0.87	
2	0.72	0.72	0.99	0.88	1.23	1.23	2.31	1.37	1.25	1.20	1.04	0.86	
3	0.72	0.72	0.97	0.86	1.20	1.25	2.40	1.45	1.25	1.20	1.02	0.85	
4	0.72	0.72	0.95	0.85	1.21	1.27	2.38	1.86	1.24	1.20	1.02	0.85	
5	0.72	0.72	0.94	0.84	1.25	1.29	2.33	2.04	1.24	1.20	1.02	0.84	
6	0.72	0.72	0.93	0.83	1.26	1.29	2.28	2.16	1.23	1.20	1.01	0.84	
7	0.72	0.72	0.93	0.82	1.26	1.28	2.24	2.32	1.22	1.19	1.01	0.84	
8	0.72	0.72	0.93	0.80	1.26	1.43	2.15	2.40	1.21	1.19	1.00	0.83	
9	0.72	0.72	0.93	0.78	1.26	1.67	2.06	2.30	1.21	1.18	0.99	0.83	
10	0.72	0.72	0.93	0.76	1.25	1.78	1.99	2.20	1.21	1.18	0.99	0.82	
11	0.72	0.72	0.93	0.72	1.26	1.88	1.92	2.07	1.21	1.18	0.98	0.81	
12	0.72	0.72	0.93	0.71	1.26	1.89	1.84	1.86	1.21	1.17	0.98	0.80	
13	0.72	0.72	0.93	0.70	1.26	2.05	1.79	1.70	1.21	1.17	0.97	0.79	
14	0.72	0.72	0.93	0.70	1.26	2.20	1.77	1.63	1.21	1.17	0.96	0.78	
15	0.72	0.72	0.93	0.72	1.26	2.27	1.76	1.57	1.21	1.16	0.95	0.77	
16	0.72	0.72	0.93	0.76	1.26	2.22	1.72	1.57	1.21	1.16	0.95	0.76	
17	0.72	0.72	0.93	0.83	1.26	2.17	1.68	1.54	1.21	1.16	0.94	0.75	
18	0.72	0.72	0.93	0.86	1.26	2.12	1.63	1.52	1.21	1.15	0.94	0.75	
19	0.72	0.72	0.93	0.94	1.27	2.03	1.53	1.50	1.20	1.15	0.93	0.74	
20	0.72	0.11	0.93	1.02	1.30	1.94	1.46	1.46	1.20	1.15	0.93	0.74	
21	0.72	0.31	0.92	1.12	1.25	1.83	1.41	1.46	1.20	1.14	0.92	0.73	
22	0.72	0.44	0.92	1.21	1.22	1.71	1.36	1.45	1.20	1.14	0.92	0.72	
23	0.72	0.55	0.92	1.21	1.22	1.64	1.34	1.41	1.19	1.14	0.91	0.73	
24	0.72	0.77	0.92	1.21	1.22	1.58	1.33	1.38	1.19	1.13	0.90	0.73	
25	0.72	0.87	0.92	1.21	1.23	1.54	1.32	1.37	1.18	1.12	0.90	0.73	
26	0.72	0.94	0.92	1.21	1.23	1.64	1.31	1.36	1.18	1.11	0.89	0.72	
27	0.72	0.95	0.92	1.22	1.22	1.79	1.30	1.34	1.17	1.10	0.89	0.72	
28	0.72	0.98	0.92	1.22	1.22	1.86	1.29	1.32	1.17	1.09	0.88	0.72	
29	0.72	1.06	0.92	1.23	1.22	1.93	1.29	1.30	1.15	1.08		0.71	
30	0.72	1.06	0.92	1.23	1.22	1.98	1.29	1.28	1.15	1.07		0.72	
31		1.06		1.22	1.22		1.40		1.15	1.06		0.72	
Mean	0.72	0.73	0.93	0.95	1.24	1.73	1.75	1.65	1.20	1.15	0.96	0.78	
Max	0.72	1.06	1.00	1.23	1.30	2.27	2.40	2.40	1.26	1.20	1.05	0.87	2.40
Min	0.72	0.11	0.92	0.70	1.20	1.22	1.29	1.28	1.15	1.06	0.88	0.71	0.11

Annual Max Momentary Gage Height 2.44 M (A.D), at 18.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.72 M (A.D)
Left Bank Elevation 1.50 M (A.D)
Right Bank Elevation 2.45 M (A.D), Drainage Area 397 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.36	0.24	36.30	2.64	0.72	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.36	0.36	40.60	2.32	0.60	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.60	47.80	3.70	0.60	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.12	0.84	46.20	15.80	0.48	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.60	1.08	42.20	23.76	0.48	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.72	1.08	38.40	30.36	0.36	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.72	0.96	35.60	41.40	0.24	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.72	3.34	29.75	47.80	0.12	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.72	8.96	24.74	39.80	0.12	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.60	12.68	21.36	32.80	0.12	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.72	16.60	18.28	25.23	0.12	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.72	17.00	15.00	15.80	0.12	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.72	24.25	13.04	9.80	0.12	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.72	32.80	12.32	7.84	0.12	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.72	37.70	11.96	6.28	0.12	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.72	34.20	10.52	6.28	0.12	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.72	30.97	9.24	5.56	0.12	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.72	27.92	7.84	5.08	0.12	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.84	23.27	5.32	4.60	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	1.20	19.16	3.88	3.88	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.60	14.60	2.98	3.88	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.12	0.24	10.16	2.16	3.70	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.12	0.24	8.12	1.84	2.98	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.12	0.24	6.52	1.68	2.48	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.12	0.36	5.56	1.52	2.32	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.12	0.36	8.12	1.36	2.16	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.24	0.24	13.04	1.20	1.84	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.24	0.24	15.80	1.08	1.52	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.36	0.24	18.72	1.08	1.20	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.36	0.24	20.92	1.08	0.96	0.00	0.00		0.00	
31		0.00		0.24	0.24		2.80		0.00	0.00		0.00	
Total	0.00	0.00	0.00	2.04	15.96	415.57	489.13	353.77	4.80	0.00	0.00	0.00	1281.27 CMSDAY
Mean	0.00	0.00	0.00	0.07	0.51	13.85	15.78	11.79	0.15	0.00	0.00	0.00	3.51 CMS
Max	0.00	0.00	0.00	0.36	1.20	37.70	47.80	47.80	0.72	0.00	0.00	0.00	47.80 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.24	1.08	0.96	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.000	0.176	1.379	35.905	42.261	30.566	0.415	0.000	0.000	0.000	110.702 MCM

Momentary Peak 51.08 CMS, at 2.44 M (A.D), at 18.00 Hours, on Oct 3, 1996

Runoff Yield 8.84 Liters/Second/Square KM, Momentary Peak Yield 128.665 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

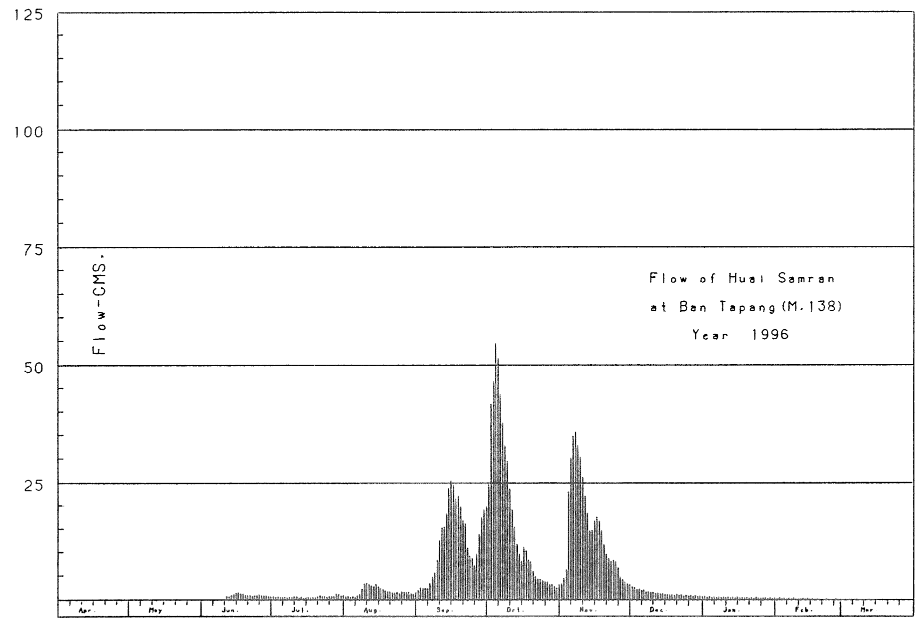
Huai Samran at Ban Tapang, Si Sa Ket (M.138)

Location	Lat. 14°-46'-54" N., Long. 104°-07'-32" E., on right bank at the bridge on road, Ban Tapang, 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	5-time daily readings at 06.00, 09.00, 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 +2.30 m.(A.D.) and is included.
General Description	Records good. Flow effected by the weir about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.41	1.31	1.67	2.20	2.23	2.47	3.00	2.58	2.54	2.22	2.03	1.82	
2	1.40	1.30	1.66	2.21	2.21	2.51	3.19	2.64	2.52	2.21	2.03	1.81	
3	1.39	1.33	1.66	2.19	2.20	2.51	3.24	2.72	2.49	2.20	2.02	1.80	
4	1.37	1.32	1.66	2.17	2.18	2.50	3.32	2.98	2.48	2.19	2.02	1.79	
5	1.39	1.32	1.65	2.16	2.18	2.51	3.29	3.07	2.47	2.18	2.01	1.78	
6	1.38	1.33	1.65	2.15	2.26	2.58	3.21	3.12	2.46	2.18	2.01	1.78	
7	1.38	1.33	1.64	2.14	2.35	2.66	3.15	3.13	2.43	2.18	2.00	1.77	
8	1.37	1.32	1.64	2.15	2.48	2.70	3.10	3.10	2.42	2.18	2.01	1.76	
9	1.36	1.36	1.68	2.17	2.58	2.77	3.06	3.07	2.42	2.17	1.99	1.75	
10	1.35	1.36	1.96	2.17	2.58	2.84	2.99	3.02	2.40	2.17	1.98	1.75	
11	1.34	1.37	2.22	2.15	2.57	2.88	2.93	2.97	2.39	2.17	1.97	1.74	
12	1.34	1.38	2.24	2.14	2.54	2.88	2.88	2.92	2.38	2.16	1.97	1.73	
13	1.34	1.38	2.27	2.13	2.54	2.92	2.83	2.87	2.37	2.15	1.95	1.72	
14	1.34	1.43	2.35	2.11	2.56	2.99	2.80	2.87	2.36	2.14	1.94	1.71	
15	1.38	1.42	2.39	2.12	2.54	3.01	2.76	2.90	2.35	2.14	1.93	1.71	
16	1.38	1.42	2.38	2.11	2.50	3.00	2.82	2.91	2.33	2.13	1.92	1.73	
17	1.37	1.44	2.37	2.13	2.49	2.96	2.81	2.90	2.33	2.13	1.91	1.72	
18	1.37	1.45	2.34	2.12	2.44	2.97	2.77	2.87	2.33	2.12	1.91	1.71	
19	1.36	1.46	2.31	2.14	2.43	2.94	2.76	2.83	2.32	2.12	1.90	1.71	
20	1.35	1.48	2.28	2.20	2.42	2.90	2.71	2.80	2.33	2.11	1.89	1.70	
21	1.35	1.57	2.28	2.25	2.40	2.89	2.66	2.78	2.32	2.11	1.87	1.68	
22	1.34	1.60	2.26	2.23	2.39	2.82	2.64	2.76	2.31	2.10	1.87	1.67	
23	1.33	1.64	2.26	2.21	2.38	2.79	2.63	2.77	2.30	2.10	1.86	1.67	
24	1.32	1.66	2.31	2.20	2.37	2.78	2.62	2.76	2.29	2.09	1.85	1.67	
25	1.32	1.67	2.32	2.19	2.41	2.74	2.61	2.73	2.28	2.08	1.85	1.66	
26	1.31	1.67	2.31	2.17	2.41	2.80	2.60	2.66	2.28	2.08	1.84	1.65	
27	1.30	1.67	2.29	2.25	2.41	2.86	2.57	2.63	2.27	2.07	1.83	1.64	
28	1.29	1.66	2.27	2.36	2.41	2.91	2.56	2.60	2.26	2.06	1.83	1.63	
29	1.29	1.66	2.25	2.33	2.37	2.93	2.54	2.58	2.26	2.05		1.63	
30	1.30	1.65	2.21	2.29	2.33	2.94	2.51	2.56	2.26	2.04		1.62	
31		1.67		2.25	2.38		2.56		2.23	2.04		1.63	
Mean	1.35	1.47	2.09	2.19	2.40	2.80	2.84	2.84	2.36	2.13	1.94	1.71	
Max	1.41	1.67	2.39	2.36	2.58	3.01	3.32	3.13	2.54	2.22	2.03	1.82	3.32
Min	1.29	1.30	1.64	2.11	2.18	2.47	2.51	2.56	2.23	2.04	1.83	1.62	1.29

Annual Max Momentary Gage Height 3.38 M (A.D), at 6.00 Hours, on Oct 4, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.81 M (A.D)
Left Bank Elevation 2.29 M (A.D)
Right Bank Elevation 2.35 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.02	0.13	0.70	0.79	2.16	24.60	3.52	2.96	0.76	0.43	0.22	
2	0.04	0.02	0.13	0.73	0.73	2.54	41.82	4.60	2.68	0.73	0.43	0.21	
3	0.04	0.03	0.13	0.68	0.70	2.54	46.72	6.60	2.32	0.70	0.42	0.20	
4	0.03	0.02	0.13	0.64	0.66	2.40	54.68	23.08	2.24	0.68	0.42	0.20	
5	0.04	0.02	0.12	0.62	0.66	2.54	51.62	30.48	2.16	0.66	0.41	0.19	
6	0.04	0.03	0.12	0.60	0.88	3.52	43.78	34.96	2.08	0.66	0.41	0.19	
7	0.04	0.03	0.12	0.58	1.30	5.00	37.90	35.94	1.84	0.66	0.40	0.19	
8	0.03	0.02	0.12	0.60	2.24	5.80	33.00	33.00	1.76	0.66	0.41	0.18	
9	0.03	0.03	0.14	0.64	3.52	8.60	29.64	30.48	1.76	0.64	0.39	0.18	
10	0.03	0.03	0.36	0.64	3.52	12.68	23.84	26.28	1.60	0.64	0.38	0.18	
11	0.03	0.03	0.76	0.60	3.38	15.56	19.28	22.32	1.54	0.64	0.37	0.17	
12	0.03	0.04	0.82	0.58	2.96	15.56	15.56	18.52	1.48	0.62	0.37	0.17	
13	0.03	0.04	0.91	0.56	2.96	18.52	11.96	14.84	1.42	0.60	0.35	0.16	
14	0.03	0.05	1.30	0.52	3.24	23.84	9.80	14.84	1.36	0.58	0.34	0.16	
15	0.04	0.04	1.54	0.54	2.96	25.44	8.20	17.00	1.30	0.58	0.33	0.16	
16	0.04	0.04	1.48	0.52	2.40	24.60	11.24	17.76	1.18	0.56	0.32	0.17	
17	0.03	0.05	1.42	0.56	2.32	21.56	10.52	17.00	1.18	0.56	0.31	0.16	
18	0.03	0.05	1.24	0.54	1.92	22.32	8.60	14.84	1.18	0.54	0.31	0.16	
19	0.03	0.05	1.06	0.58	1.84	20.04	8.20	11.96	1.12	0.54	0.30	0.16	
20	0.03	0.06	0.94	0.70	1.76	17.00	6.20	9.80	1.18	0.52	0.29	0.15	
21	0.03	0.09	0.94	0.85	1.60	16.28	5.00	9.00	1.12	0.52	0.27	0.14	
22	0.03	0.10	0.88	0.79	1.54	11.24	4.60	8.20	1.06	0.50	0.27	0.13	
23	0.03	0.12	0.88	0.73	1.48	9.40	4.40	8.60	1.00	0.50	0.26	0.13	
24	0.02	0.13	1.06	0.70	1.42	9.00	4.20	8.20	0.97	0.49	0.25	0.13	
25	0.02	0.13	1.12	0.68	1.68	7.40	4.00	7.00	0.94	0.48	0.25	0.13	
26	0.02	0.13	1.06	0.64	1.68	9.80	3.80	5.00	0.94	0.48	0.24	0.12	
27	0.02	0.13	0.97	0.85	1.68	14.12	3.38	4.40	0.91	0.47	0.23	0.12	
28	0.02	0.13	0.91	1.36	1.68	17.76	3.24	3.80	0.88	0.46	0.23	0.12	
29	0.02	0.13	0.85	1.18	1.42	19.28	2.96	3.52	0.88	0.45		0.12	
30	0.02	0.12	0.73	0.97	1.18	20.04	2.54	3.24	0.88	0.44		0.11	
31		0.13		0.85	1.48		3.24		0.79	0.44		0.12	
Total	0.91	2.04	22.37	21.73	57.58	386.54	538.52	448.78	44.71	17.76	9.39	4.93	1555.26 CMSDAY
Mean	0.03	0.07	0.75	0.70	1.86	12.88	17.37	14.96	1.44	0.57	0.34	0.16	4.26 CMS
Max	0.04	0.13	1.54	1.36	3.52	25.44	54.68	35.94	2.96	0.76	0.43	0.22	54.68 CMS
Min	0.02	0.02	0.12	0.52	0.66	2.16	2.54	3.24	0.79	0.44	0.23	0.11	0.02 CMS
Runoff	0.079	0.176	1.933	1.877	4.975	33.397	46.528	38.775	3.863	1.534	0.811	0.426	134.374 MCM

Momentary Peak 60.92 CMS, at 3.38 M (A.D), at 6.00 Hours, on Oct 4, 1996

Runoff Yield 4.10 Liters/Second/Square KM, Momentary Peak Yield 58.690 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

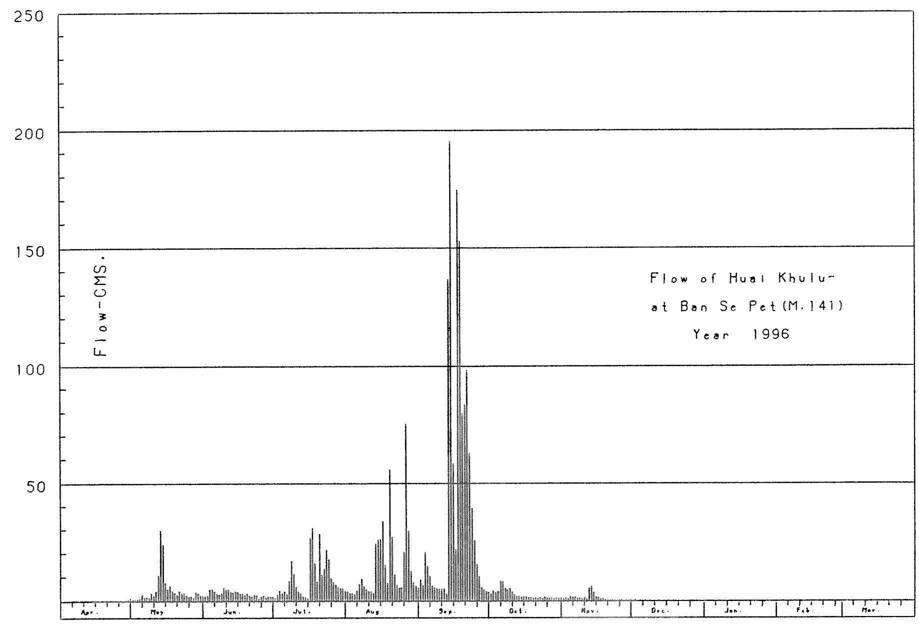
Khlong Nong Mon at Ban Se Pet, Ubon Ratchathani (M.141A)

Location	Lat. 15°-32′-24″ N., Long. 104°-58′-46″ E., on left bank at the bridge on highway about 700 meters from M.141, 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.-H.D.
Location	On left bank downstream at the footpath of the bridge.
Elevation	+8.063 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	1994 to date.
Rating Operation	
Period of Rating	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +5.97 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 51 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.32	1.76	1.89	1.81	2.10	2.52	2.59	2.12	1.88	1.75	1.70	1.66	
2	1.32	1.74	1.96	2.01	2.07	2.39	2.68	2.11	1.88	1.75	1.73	1.66	
3	1.32	1.76	2.19	2.15	2.04	2.91	2.64	2.11	1.88	1.74	1.72	1.66	
4	1.32	1.89	2.24	2.06	2.02	2.74	2.65	2.28	1.87	1.73	1.71	1.65	
5	1.32	1.99	2.11	2.10	2.15	2.60	3.06	2.30	1.87	1.73	1.70	1.65	
6	1.32	1.88	2.04	2.03	2.40	2.37	3.04	2.24	1.87	1.72	1.71	1.65	
7	1.32	1.85	1.97	2.49	2.55	2.28	2.83	2.18	1.87	1.71	1.79	1.65	
8	1.32	1.86	2.07	2.80	2.35	2.26	2.72	2.15	1.86	1.81	1.75	1.65	
9	1.32	2.04	2.27	2.63	2.19	2.23	2.82	2.10	1.86	1.79	1.73	1.65	
10	1.32	1.96	2.21	2.30	2.14	2.23	2.68	2.09	1.86	1.75	1.76	1.66	
11	1.70	2.11	2.20	2.13	2.12	2.26	2.50	2.07	1.86	1.72	1.75	1.66	
12	1.66	2.61	2.12	2.03	2.06	2.57	2.40	2.79	1.85	1.71	1.73	1.66	
13	1.66	3.15	2.06	1.92	3.01	5.57	2.36	2.90	1.85	1.70	1.72	1.66	
14	1.67	3.01	2.14	1.87	3.06	5.99	2.31	2.61	1.83	1.74	1.72	1.65	
15	1.66	2.44	2.09	1.84	3.06	4.63	2.28	2.31	1.84	1.75	1.72	1.65	
16	1.66	2.21	2.05	3.08	3.24	3.68	2.26	2.17	1.84	1.75	1.71	1.71	
17	1.65	2.36	2.03	3.17	2.75	5.86	2.25	2.10	1.83	1.76	1.70	1.67	
18	1.65	2.16	1.99	2.78	2.44	5.71	2.22	2.05	1.83	1.76	1.69	1.69	
19	1.64	2.05	2.02	2.47	3.63	4.96	2.19	1.99	1.83	1.75	1.68	1.66	
20	1.67	2.00	1.97	3.12	3.08	5.01	2.18	1.95	1.82	1.75	1.67	1.66	
21	1.67	2.13	1.89	2.61	2.62	5.19	2.17	1.94	1.82	1.75	1.66	1.65	
22	1.67	2.05	2.00	2.70	2.38	4.70	2.17	1.92	1.82	1.74	1.65	1.65	
23	1.66	2.06	1.95	2.94	2.29	4.22	2.17	1.91	1.82	1.75	1.66	1.65	
24	1.66	1.98	1.83	2.83	2.26	3.84	2.20	1.90	1.81	1.75	1.66	1.65	
25	1.65	1.92	1.93	2.56	2.92	3.44	2.19	1.90	1.81	1.74	1.66	1.65	
26	1.64	1.90	1.93	2.46	3.88	3.16	2.17	1.89	1.81	1.73	1.66	1.65	
27	1.63	1.87	1.90	2.41	3.15	2.86	2.15	1.89	1.81	1.74	1.66	1.65	
28	1.63	2.12	1.87	2.30	2.67	2.74	2.13	1.89	1.81	1.74	1.66	1.65	
29	1.76	2.02	1.92	2.28	2.45	2.69	2.13	1.89	1.80	1.73		1.65	
30	1.81	1.96	1.86	2.24	2.36	2.63	2.13	1.88	1.78	1.72		1.65	
31		1.94		2.16	2.27		2.13		1.76	1.71		1.79	
Mean	1.55	2.09	2.02	2.40	2.57	3.54	2.40	2.12	1.84	1.74	1.70	1.66	
Max	1.81	3.15	2.27	3.17	3.88	5.99	3.06	2.90	1.88	1.81	1.79	1.79	5.99
Min	1.32	1.74	1.83	1.81	2.02	2.23	2.13	1.88	1.76	1.70	1.65	1.65	1.32

Annual Max Momentary Gage Height 6.70 M (A.D), at 18.00 Hours, on Sep 17, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 5.99 M (A.D)
Right Bank Elevation 5.96 M (A.D), Drainage Area 382 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.00	1.92	1.28	4.00	9.16	3.44	1.36	0.64	0.30	0.20	0.16	
2	0.00	0.90	2.60	3.10	3.70	7.08	4.30	1.33	0.64	0.30	0.26	0.16	
3	0.00	1.00	4.90	4.50	3.40	20.85	3.90	1.33	0.64	0.28	0.24	0.16	
4	0.00	1.92	5.40	3.60	3.20	15.20	4.00	1.92	0.61	0.26	0.22	0.15	
5	0.00	2.90	4.10	4.00	4.50	11.00	8.82	2.00	0.61	0.26	0.20	0.15	
6	0.00	1.84	3.40	3.30	7.20	6.84	8.48	1.76	0.61	0.24	0.22	0.15	
7	0.00	1.60	2.70	8.55	9.85	5.80	5.80	1.54	0.61	0.22	0.38	0.15	
8	0.00	1.68	3.70	17.00	6.60	5.60	4.70	1.45	0.58	0.43	0.30	0.15	
9	0.00	3.40	5.70	11.90	4.90	5.30	5.70	1.30	0.58	0.38	0.26	0.15	
10	0.00	2.60	5.10	6.00	4.40	5.30	4.30	1.27	0.58	0.30	0.32	0.16	
11	0.70	4.10	5.00	4.30	4.20	5.60	2.90	1.21	0.58	0.24	0.30	0.16	
12	0.50	11.30	4.20	3.30	3.60	3.32	2.40	5.40	0.55	0.22	0.26	0.16	
13	0.50	30.25	3.60	2.20	24.40	136.70	2.24	6.50	0.55	0.20	0.24	0.16	
14	0.55	24.40	4.40	1.76	26.40	195.40	2.04	3.60	0.49	0.28	0.24	0.15	
15	0.50	7.80	3.90	1.52	26.40	58.80	1.92	2.04	0.52	0.30	0.24	0.15	
16	0.50	5.10	3.50	27.20	34.30	22.00	1.84	1.51	0.52	0.30	0.22	0.22	
17	0.45	6.72	3.30	31.15	15.50	175.00	1.80	1.30	0.49	0.32	0.20	0.17	
18	0.45	4.60	2.90	16.40	7.80	153.40	1.68	1.15	0.49	0.32	0.19	0.19	
19	0.40	3.50	3.20	8.25	56.25	79.80	1.57	0.97	0.49	0.30	0.18	0.16	
20	0.55	3.00	2.70	28.90	27.20	83.80	1.54	0.85	0.46	0.30	0.17	0.16	
21	0.55	4.30	1.92	11.30	11.60	98.20	1.51	0.82	0.46	0.30	0.16	0.15	
22	0.55	3.50	3.00	14.00	6.96	63.00	1.51	0.76	0.46	0.28	0.15	0.15	
23	0.50	3.60	2.50	21.90	5.90	39.80	1.51	0.73	0.46	0.30	0.16	0.15	
24	0.50	2.80	1.44	18.05	5.60	26.20	1.60	0.70	0.43	0.30	0.16	0.15	
25	0.45	2.20	2.30	10.08	21.20	16.00	1.57	0.70	0.43	0.28	0.16	0.15	
26	0.40	2.00	2.30	8.10	75.40	10.52	1.51	0.67	0.43	0.26	0.16	0.15	
27	0.35	1.76	2.00	7.35	30.25	6.10	1.45	0.67	0.43	0.28	0.16	0.15	
28	0.35	4.20	1.76	6.00	13.10	4.90	1.39	0.67	0.43	0.28	0.16	0.15	
29	1.00	3.20	2.20	5.80	7.95	4.40	1.39	0.67	0.40	0.26		0.15	
30	1.28	2.60	1.68	5.40	6.72	3.80	1.39	0.64	0.36	0.24		0.15	
31		2.40		4.60	5.70		1.39		0.32	0.22		0.38	
Total	11.03	152.17	97.32	300.79	468.18	1278.87	89.59	46.82	15.85	8.75	6.11	5.10	2480.58 CMSDAY
Mean	0.37	4.91	3.24	9.70	15.10	42.63	2.89	1.56	0.51	0.28	0.22	0.16	6.80 CMS
Max	1.28	30.25	5.70	31.15	75.40	195.40	8.82	6.50	0.64	0.43	0.38	0.38	195.40 CMS
Min	0.00	0.90	1.44	1.28	3.20	3.32	1.39	0.64	0.32	0.20	0.15	0.15	0.00 CMS
Runoff	0.953	13.147	8.408	25.988	40.451	110.494	7.741	4.045	1.369	0.756	0.528	0.441	214.322 MCM

Momentary Peak 351.00 CMS, at 6.70 M (A.D), at 18.00 Hours, on Sep 17, 1996

Runoff Yield 17.79 Liters/Second/Square KM, Momentary Peak Yield 918.848 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

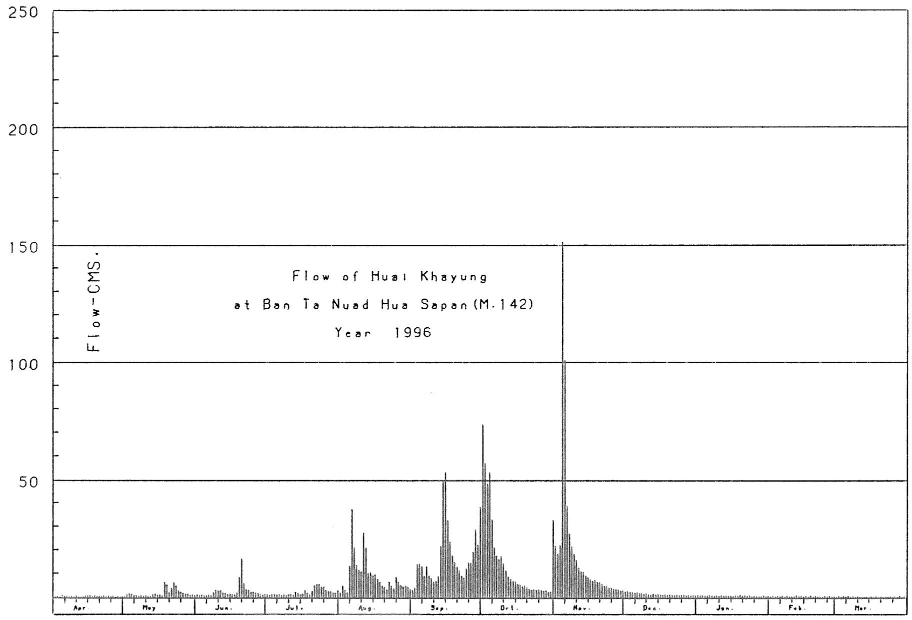
Huai Khayung at Ban Ta Nuad Hua Saphan, Si Sa Ket (M.142)

Location	Lat. 14°30′32″ N., Long. 104°37′28″ E.,on left bank at the bridge on road, Ban Ta Nuad Hua Saphan, Amphoe Kantharalak, Si Sa Ket.
Drainage Area	241 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 downstream side at the abutment of the bridge.
Elevation	+10.184 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	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 6.81 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 62 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.42	0.55	0.63	0.81	0.98	5.60	2.69	0.90	0.53	0.42	0.39	
2	0.34	0.62	0.55	0.59	1.18	1.06	4.86	2.32	0.87	0.52	0.41	0.39	
3	0.36	0.76	0.53	0.62	0.95	2.00	4.44	2.74	0.86	0.51	0.41	0.38	
4	0.55	0.63	0.51	0.71	0.83	1.99	4.67	8.19	0.83	0.51	0.41	0.37	
5	0.46	0.54	0.52	0.62	1.93	1.92	3.56	6.53	0.80	0.51	0.41	0.37	
6	0.45	0.50	0.54	0.62	3.86	1.59	2.63	3.93	0.80	0.51	0.41	0.36	
7	0.42	0.48	0.55	0.58	2.60	1.90	2.24	3.16	0.78	0.50	0.41	0.36	
8	0.40	0.44	0.84	0.58	1.95	1.61	2.16	2.66	0.75	0.50	0.44	0.36	
9	0.40	0.48	0.96	0.57	1.80	1.48	2.24	2.32	0.74	0.50	0.43	0.36	
10	0.40	0.45	0.94	0.57	1.71	1.31	2.01	2.12	0.73	0.49	0.43	0.36	
11	0.39	0.44	0.90	0.59	3.17	1.37	1.77	1.86	0.71	0.49	0.43	0.36	
12	0.38	0.44	0.82	0.62	2.62	1.56	1.57	1.75	0.64	0.49	0.43	0.35	
13	0.40	0.71	0.73	0.82	1.65	2.71	1.44	1.71	0.66	0.49	0.43	0.35	
14	0.49	0.63	0.71	0.78	1.71	4.50	1.37	1.60	0.68	0.48	0.42	0.35	
15	0.53	0.60	0.70	0.69	1.61	4.68	1.33	1.53	0.66	0.48	0.42	0.35	
16	0.48	0.54	0.70	0.63	1.62	3.54	1.25	1.43	0.65	0.48	0.42	0.36	
17	0.44	0.52	0.66	0.97	1.46	2.87	1.19	1.38	0.63	0.48	0.41	0.36	
18	0.44	1.33	0.77	0.75	1.30	2.28	1.14	1.40	0.64	0.48	0.41	0.35	
19	0.44	1.17	1.54	0.66	1.17	2.05	1.16	1.34	0.62	0.48	0.41	0.35	
20	0.44	0.82	2.18	0.86	1.08	1.90	1.09	1.29	0.62	0.48	0.41	0.35	
21	0.44	1.06	1.26	1.18	1.01	1.76	1.04	1.23	0.61	0.49	0.40	0.36	
22	0.43	1.30	1.03	1.25	1.34	1.60	1.00	1.17	0.59	0.49	0.40	0.36	
23	0.42	1.14	0.95	1.20	1.15	1.49	0.99	1.14	0.59	0.48	0.40	0.36	
24	0.39	0.95	0.87	1.13	1.05	1.84	1.00	1.08	0.58	0.45	0.40	0.36	
25	0.39	0.79	0.82	1.10	1.53	2.04	0.99	1.07	0.57	0.45	0.40	0.35	
26	0.37	0.75	0.77	0.96	1.31	2.02	0.99	1.03	0.56	0.44	0.40	0.35	
27	0.36	0.72	0.76	0.91	1.20	2.38	0.95	1.02	0.55	0.44	0.39	0.35	
28	0.36	0.65	0.70	0.86	1.09	3.26	0.93	0.99	0.54	0.44	0.39	0.35	
29	0.36	0.60	0.65	0.80	1.17	2.73	0.87	0.95	0.54	0.43		0.35	
30	0.40	0.57	0.64	0.76	1.08	3.90	0.85	0.92	0.53	0.43		0.35	
31		0.56		0.93	1.00		3.55		0.53	0.43		0.35	
Mean	0.42	0.70	0.82	0.79	1.55	2.21	1.96	2.09	0.67	0.48	0.41	0.36	
Max	0.55	1.33	2.18	1.25	3.86	4.68	5.60	8.19	0.90	0.53	0.44	0.39	8.19
Min	0.34	0.42	0.51	0.57	0.81	0.98	0.85	0.92	0.53	0.43	0.39	0.35	0.34

Annual Max Momentary Gage Height 8.57 M (A.D), at 6.00 Hours, on Nov 4, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.15 M (A.D)
Left Bank Elevation 6.80 M (A.D)
Right Bank Elevation 7.53 M (A.D), Drainage Area 241 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.80	1.15	1.39	2.26	3.36	74.00	22.02	2.80	1.09	0.80	0.72	
2	0.60	1.36	1.15	1.27	5.30	4.10	57.20	18.80	2.62	1.06	0.78	0.72	
3	0.65	1.96	1.09	1.36	3.15	14.50	48.80	22.50	2.56	1.03	0.78	0.70	
4	1.15	1.39	1.03	1.66	2.38	14.38	53.40	151.20	2.38	1.03	0.78	0.68	
5	0.90	1.12	1.06	1.36	13.63	13.50	33.40	101.40	2.20	1.03	0.78	0.68	
6	0.88	1.00	1.12	1.36	37.90	9.40	21.54	39.01	2.20	1.03	0.78	0.65	
7	0.80	0.95	1.15	1.24	21.30	13.25	17.63	27.40	2.08	1.00	0.78	0.65	
8	0.75	0.85	2.44	1.24	13.88	9.63	16.53	21.78	1.90	1.00	0.85	0.65	
9	0.75	0.95	3.22	1.21	12.00	8.30	17.63	18.80	1.84	1.00	0.83	0.65	
10	0.75	0.88	3.08	1.21	10.88	6.60	14.63	16.01	1.78	0.98	0.83	0.65	
11	0.72	0.85	2.80	1.27	27.55	7.20	11.63	12.75	1.66	0.98	0.83	0.65	
12	0.70	0.85	2.32	1.36	21.46	9.10	9.20	11.38	1.42	0.98	0.83	0.63	
13	0.75	1.66	1.78	2.32	10.13	22.20	7.90	10.88	1.48	0.98	0.83	0.63	
14	0.98	1.39	1.66	2.08	10.88	50.00	7.20	9.50	1.54	0.95	0.80	0.63	
15	1.09	1.30	1.60	1.57	9.63	53.60	6.80	8.80	1.48	0.95	0.80	0.63	
16	0.95	1.12	1.60	1.39	9.75	33.10	6.00	7.80	1.45	0.95	0.80	0.65	
17	0.85	1.06	1.48	3.29	8.10	23.80	5.40	7.30	1.39	0.95	0.78	0.65	
18	0.85	6.80	2.02	1.90	6.50	18.21	4.90	7.50	1.42	0.95	0.78	0.63	
19	0.85	5.20	8.90	1.48	5.20	15.13	5.10	6.90	1.36	0.95	0.78	0.63	
20	0.85	2.32	16.79	2.56	4.30	13.25	4.40	6.40	1.36	0.95	0.78	0.63	
21	0.85	4.10	6.10	5.30	3.60	11.50	3.90	5.80	1.33	0.98	0.75	0.65	
22	0.83	6.50	3.80	6.00	6.90	9.50	3.50	5.20	1.27	0.98	0.75	0.65	
23	0.80	4.90	3.15	5.50	5.00	8.40	3.43	4.90	1.27	0.95	0.75	0.65	
24	0.72	3.15	2.62	4.80	4.00	12.50	3.50	4.30	1.24	0.88	0.75	0.65	
25	0.72	2.14	2.32	4.50	8.80	15.00	3.43	4.20	1.21	0.88	0.75	0.63	
26	0.68	1.90	2.02	3.22	6.60	14.75	3.43	3.80	1.18	0.85	0.75	0.63	
27	0.65	1.72	1.96	2.87	5.50	19.70	3.15	3.70	1.15	0.85	0.72	0.63	
28	0.65	1.45	1.60	2.56	4.40	28.90	3.01	3.43	1.12	0.85	0.72	0.63	
29	0.65	1.30	1.45	2.20	5.20	22.40	2.62	3.15	1.12	0.83		0.63	
30	0.75	1.21	1.42	1.96	4.30	38.50	2.50	2.94	1.09	0.83		0.63	
31		1.18		3.01	3.50		33.25		1.09	0.83		0.63	
Total	23.72	63.36	83.88	74.44	293.98	523.76	489.01	569.55	49.99	29.55	21.94	20.12	2243.30 CMSDAY
Mean	0.79	2.04	2.80	2.40	9.48	17.46	15.77	18.99	1.61	0.95	0.78	0.65	6.15 CMS
Max	1.15	6.80	16.79	6.00	37.90	53.60	74.00	151.20	2.80	1.09	0.85	0.72	151.20 CMS
Min	0.60	0.80	1.03	1.21	2.26	3.36	2.50	2.94	1.09	0.83	0.72	0.63	0.60 CMS
Runoff	2.049	5.474	7.247	6.432	25.400	45.253	42.250	49.209	4.319	2.553	1.896	1.738	193.821 MCM

Momentary Peak 162.60 CMS, at 8.57 M (A.D), at 6.00 Hours, on Nov 4, 1996
Runoff Yield 25.50 Liters/Second/Square KM, Momentary Peak Yield 674.689 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

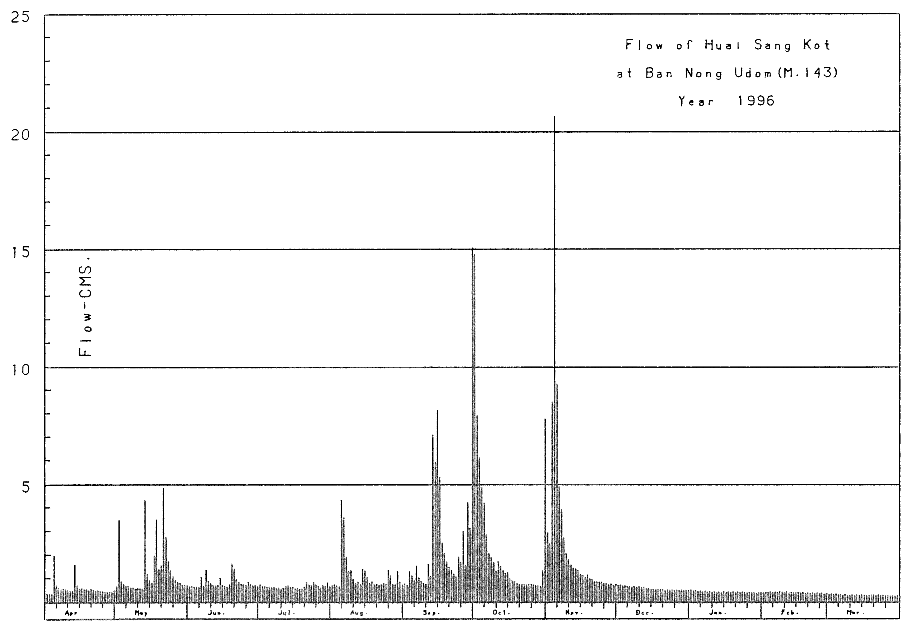
Huai Sang Kot at Ban Nong Udom, Si Sa Ket (M.143)

Location	Lat. 14°-29′-03″ N., Long. 104°-39′-50″ E., on left bank at the bridge on road, Ban Nong Udom, Amphoe Kantharalak, Si Sa Ket.
Drainage Area	46 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 upstream at the abutment of the bridge.
Elevation	+6.460 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	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.20 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 53 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	1.10	1.10	1.16	1.11	1.20	3.80	2.10	1.16	0.93	0.83	0.78	
2	0.77	2.23	1.09	1.12	1.18	1.15	3.01	1.98	1.14	0.92	0.83	0.78	
3	0.77	1.26	1.08	1.10	1.11	1.46	2.73	3.09	1.13	0.91	0.85	0.77	
4	1.80	1.20	1.08	1.08	1.09	1.38	2.52	4.35	1.12	0.90	0.85	0.77	
5	1.16	1.13	1.06	1.07	2.43	1.26	2.41	3.19	1.12	0.89	0.85	0.76	
6	1.03	1.09	1.34	1.06	2.25	1.58	2.07	2.52	1.10	0.89	0.84	0.75	
7	0.98	1.05	1.12	1.04	1.78	1.34	1.85	2.34	1.09	0.89	0.86	0.74	
8	0.99	1.02	1.51	1.04	1.46	1.25	1.76	2.04	1.09	0.88	0.87	0.73	
9	0.98	1.00	1.25	1.02	1.50	1.21	1.67	1.85	1.08	0.88	0.87	0.73	
10	0.95	0.98	1.22	1.01	1.29	1.19	1.48	1.72	1.08	0.87	0.86	0.73	
11	0.91	0.98	1.14	1.01	1.23	1.63	1.67	1.62	1.07	0.87	0.85	0.73	
12	0.90	1.00	1.14	1.13	1.24	1.37	1.57	1.54	1.05	0.87	0.84	0.73	
13	1.61	2.43	1.12	1.12	1.20	2.89	1.50	1.53	1.03	0.86	0.84	0.73	
14	1.13	1.41	1.33	1.07	1.51	2.70	1.42	1.48	1.00	0.86	0.84	0.73	
15	1.01	1.28	1.15	1.04	1.49	3.04	1.45	1.41	0.98	0.86	0.84	0.73	
16	1.00	1.23	1.11	1.01	1.33	2.59	1.31	1.38	0.98	0.85	0.84	0.72	
17	0.98	1.81	1.08	1.00	1.23	1.99	1.27	1.35	0.97	0.85	0.83	0.71	
18	0.95	2.23	1.17	0.99	1.24	1.85	1.25	1.39	0.97	0.85	0.83	0.71	
19	0.93	1.52	1.64	0.98	1.19	1.68	1.22	1.32	0.97	0.85	0.83	0.73	
20	0.99	1.59	1.52	1.09	1.16	1.55	1.20	1.29	0.96	0.85	0.82	0.73	
21	0.93	2.51	1.30	1.23	1.16	1.49	1.20	1.26	0.95	0.86	0.82	0.72	
22	0.91	2.05	1.24	1.18	1.16	1.42	1.18	1.24	0.95	0.85	0.82	0.72	
23	0.90	1.70	1.21	1.15	1.22	1.35	1.17	1.25	0.95	0.85	0.81	0.71	
24	0.89	1.48	1.19	1.24	1.18	1.78	1.19	1.24	0.95	0.85	0.81	0.72	
25	0.86	1.36	1.16	1.15	1.50	1.66	1.20	1.22	0.95	0.85	0.80	0.72	
26	0.86	1.29	1.24	1.13	1.37	2.11	1.16	1.20	0.94	0.84	0.80	0.70	
27	0.86	1.24	1.19	1.02	1.20	1.60	1.15	1.20	0.94	0.84	0.79	0.70	
28	0.85	1.20	1.14	1.15	1.16	2.42	1.13	1.18	0.93	0.83	0.78	0.70	
29	0.85	1.17	1.12	1.09	1.47	2.14	1.11	1.17	0.93	0.83		0.70	
30	0.90	1.15	1.10	1.22	1.24	3.83	1.49	1.17	0.93	0.83		0.70	
31		1.13		1.10	1.18		2.99		0.93	0.83		0.70	
Mean	0.98	1.41	1.20	1.09	1.35	1.80	1.68	1.72	1.01	0.86	0.83	0.73	
Max	1.80	2.51	1.64	1.24	2.43	3.83	3.80	4.35	1.16	0.93	0.87	0.78	4.35
Min	0.77	0.98	1.06	0.98	1.09	1.15	1.11	1.17	0.93	0.83	0.78	0.70	0.70

Annual Max Momentary Gage Height 4.65 M (A.D), at 6.00 Hours, on Nov 4, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.46 M (A.D)
Left Bank Elevation 5.47 M (A.D)
Right Bank Elevation 4.19 M (A.D), Drainage Area 46 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.70	0.70	0.76	0.71	0.80	14.80	3.00	0.76	0.53	0.43	0.38	
2	0.37	3.52	0.69	0.72	0.78	0.75	7.97	2.52	0.74	0.52	0.43	0.38	
3	0.37	0.92	0.68	0.70	0.71	1.32	6.18	8.53	0.73	0.51	0.45	0.37	
4	2.00	0.80	0.68	0.68	0.69	1.16	4.92	20.70	0.72	0.50	0.45	0.37	
5	0.76	0.73	0.66	0.67	4.38	0.92	4.26	9.32	0.72	0.49	0.45	0.36	
6	0.63	0.69	1.08	0.66	3.60	1.56	2.88	4.92	0.70	0.49	0.44	0.35	
7	0.58	0.65	0.72	0.64	1.96	1.08	2.10	3.96	0.69	0.49	0.46	0.34	
8	0.59	0.62	1.42	0.64	1.32	0.90	1.92	2.76	0.69	0.48	0.47	0.33	
9	0.58	0.60	0.90	0.62	1.40	0.82	1.74	2.10	0.68	0.48	0.47	0.33	
10	0.55	0.58	0.84	0.61	0.98	0.79	1.36	1.84	0.68	0.47	0.46	0.33	
11	0.51	0.58	0.74	0.61	0.86	1.66	1.74	1.64	0.67	0.47	0.45	0.33	
12	0.50	0.60	0.74	0.73	0.88	1.14	1.54	1.48	0.65	0.47	0.44	0.33	
13	1.62	4.38	0.72	0.72	0.80	7.14	1.40	1.46	0.63	0.46	0.44	0.33	
14	0.73	1.22	1.06	0.67	1.42	6.00	1.24	1.36	0.60	0.46	0.44	0.33	
15	0.61	0.96	0.75	0.64	1.38	8.18	1.30	1.22	0.58	0.46	0.44	0.33	
16	0.60	0.86	0.71	0.61	1.06	5.34	1.02	1.16	0.58	0.45	0.44	0.32	
17	0.58	2.02	0.68	0.60	0.86	2.56	0.94	1.10	0.57	0.45	0.43	0.31	
18	0.55	3.52	0.77	0.59	0.88	2.10	0.90	1.18	0.57	0.45	0.43	0.31	
19	0.53	1.44	1.68	0.58	0.79	1.76	0.84	1.04	0.57	0.45	0.43	0.33	
20	0.59	1.58	1.44	0.69	0.76	1.50	0.80	0.98	0.56	0.45	0.42	0.33	
21	0.53	4.86	1.00	0.86	0.76	1.38	0.80	0.92	0.55	0.46	0.42	0.32	
22	0.51	2.80	0.88	0.78	0.76	1.24	0.78	0.88	0.55	0.45	0.42	0.32	
23	0.50	1.80	0.82	0.75	0.84	1.10	0.77	0.90	0.55	0.45	0.41	0.31	
24	0.49	1.36	0.79	0.88	0.78	1.96	0.79	0.88	0.55	0.45	0.41	0.32	
25	0.46	1.12	0.76	0.75	1.40	1.72	0.80	0.84	0.55	0.45	0.40	0.32	
26	0.46	0.98	0.88	0.73	1.14	3.04	0.76	0.80	0.54	0.44	0.40	0.30	
27	0.46	0.88	0.79	0.62	0.80	1.60	0.75	0.80	0.54	0.44	0.39	0.30	
28	0.45	0.80	0.74	0.75	0.76	4.32	0.73	0.78	0.53	0.43	0.38	0.30	
29	0.45	0.77	0.72	0.69	1.34	3.16	0.71	0.77	0.53	0.43		0.30	
30	0.50	0.75	0.70	0.84	0.88	15.10	1.38	0.77	0.53	0.43		0.30	
31		0.73		0.70	0.78		7.83		0.53	0.43		0.30	
Total	18.43	43.82	25.74	21.49	36.46	82.10	75.95	80.61	19.04	14.39	12.10	10.18	440.31 CMSDAY
Mean	0.61	1.41	0.86	0.69	1.18	2.74	2.45	2.69	0.61	0.46	0.43	0.33	1.21 CMS
Max	2.00	4.86	1.68	0.88	4.38	15.10	14.80	20.70	0.76	0.53	0.47	0.38	20.70 CMS
Min	0.37	0.58	0.66	0.58	0.69	0.75	0.71	0.77	0.53	0.43	0.38	0.30	0.30 CMS
Runoff	1.592	3.786	2.224	1.857	3.150	7.093	6.562	6.965	1.645	1.243	1.045	0.880	38.043 MCM

Momentary Peak 24.30 CMS, at 4.65 M (A.D), at 6.00 Hours, on Nov 4, 1996
Runoff Yield 26.22 Liters/Second/Square KM, Momentary Peak Yield 528.261 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

Huai Tha at Ban Non Tum Tha Won, Si Sa Ket (M.144)

Location	Lat. 14°-30′-44″ N., Long. 104°-27′-28″ E., on left bank at the bridge on road, Ban Non Tum Tha Won, Amphoe Khun Han, Si Sa Ket.
Drainage Area	124 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 footpath of the bridge.
Elevation	+20.000 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	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 48 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

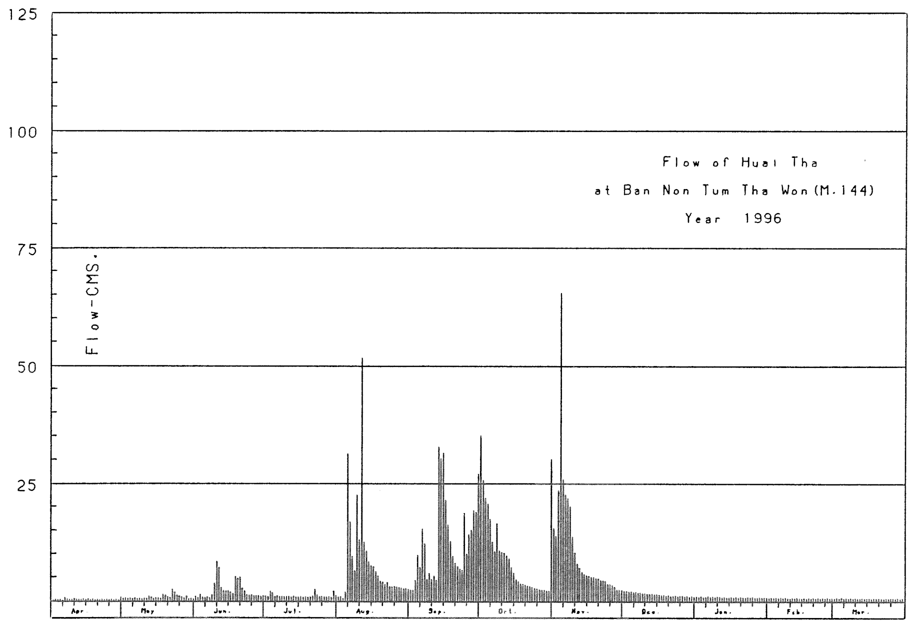
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	1.00	1.17	1.19	1.14	1.66	5.67	3.37	1.59	1.16	1.05	1.01	
2	0.84	0.99	1.07	1.18	1.12	1.62	4.67	3.24	1.56	1.16	1.05	1.01	
3	0.84	0.98	1.31	1.58	1.00	2.16	4.12	4.34	1.54	1.16	1.05	1.00	
4	0.83	0.97	1.14	1.42	1.52	2.88	3.93	7.54	1.52	1.15	1.04	1.00	
5	0.83	0.96	1.09	1.20	5.31	2.59	3.51	4.68	1.50	1.15	1.04	1.00	
6	1.10	0.96	1.08	1.19	3.47	3.36	3.15	4.23	1.48	1.15	1.04	1.00	
7	0.90	0.96	1.06	1.18	2.85	3.13	2.97	4.10	1.46	1.14	1.03	1.00	
8	0.90	0.95	1.25	1.17	2.48	2.20	3.43	3.83	1.44	1.14	1.03	1.00	
9	0.89	0.95	2.02	1.16	4.21	2.39	2.99	3.23	1.42	1.13	1.03	0.99	
10	0.89	0.95	2.75	1.16	3.18	2.18	2.94	2.93	1.40	1.13	1.03	0.99	
11	0.89	1.00	2.56	1.15	6.81	2.31	2.92	2.70	1.39	1.13	1.03	0.99	
12	0.89	1.22	1.78	1.15	3.15	2.14	2.88	2.56	1.37	1.12	1.03	0.99	
13	0.89	1.04	1.62	1.15	2.98	5.46	2.81	2.45	1.35	1.12	1.03	0.99	
14	0.88	1.01	1.54	1.14	2.73	5.20	2.57	2.37	1.34	1.11	1.03	0.98	
15	0.88	1.01	1.61	1.14	2.64	5.33	2.41	2.33	1.32	1.11	1.02	0.98	
16	0.88	1.00	1.47	1.13	2.59	4.07	2.18	2.29	1.30	1.10	1.02	0.98	
17	0.87	1.00	1.40	1.13	2.46	3.42	2.08	2.27	1.28	1.10	1.02	0.98	
18	0.87	1.35	2.29	1.12	2.30	3.17	2.00	2.25	1.26	1.09	1.02	0.98	
19	0.87	1.21	2.20	1.12	2.12	2.86	1.97	2.23	1.25	1.09	1.02	0.98	
20	0.86	1.14	2.27	1.11	2.04	2.69	1.95	2.19	1.24	1.09	1.02	0.98	
21	0.86	1.09	1.73	1.24	1.94	2.62	1.89	2.17	1.23	1.08	1.02	0.97	
22	0.86	1.71	1.60	1.71	2.06	2.54	1.86	2.14	1.23	1.08	1.02	0.97	
23	0.86	1.46	1.29	1.28	1.86	2.49	1.80	2.09	1.22	1.08	1.01	0.97	
24	0.86	1.31	1.28	1.19	1.81	3.58	1.76	1.98	1.22	1.08	1.01	0.97	
25	0.85	1.16	1.26	1.18	1.88	2.92	1.71	1.95	1.21	1.07	1.01	0.97	
26	0.85	1.08	1.25	1.16	1.83	3.27	1.70	1.89	1.20	1.07	1.01	0.97	
27	0.85	1.04	1.24	1.14	1.81	3.35	1.66	1.84	1.20	1.07	1.01	0.97	
28	0.85	1.15	1.22	1.12	1.75	3.65	1.63	1.67	1.19	1.06	1.01	0.97	
29	0.85	0.97	1.21	1.12	1.74	3.61	1.60	1.65	1.18	1.06		0.96	
30	1.10	0.95	1.20	1.59	1.72	4.82	1.56	1.62	1.18	1.06		0.96	
31		0.94		1.23	1.70		5.19		1.17	1.05		0.96	
Mean	0.88	1.08	1.53	1.22	2.46	3.12	2.69	2.80	1.33	1.11	1.03	0.98	
Max	1.10	1.71	2.75	1.71	6.81	5.46	5.67	7.54	1.59	1.16	1.05	1.01	7.54
Min	0.83	0.94	1.06	1.11	1.00	1.62	1.56	1.62	1.17	1.05	1.01	0.96	0.83

Annual Max Momentary Gage Height 7.90 M (A.D), at 9.00 Hours, on Nov 4, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.61 M (A.D)

Left Bank Elevation 11.63 M (A.D)

Right Bank Elevation 11.72 M (A.D), Drainage Area 124 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.70	1.04	1.08	0.98	2.48	35.27	15.58	2.27	1.02	0.80	0.72	
2	0.38	0.68	0.84	1.06	0.94	2.36	25.96	13.82	2.18	1.02	0.80	0.72	
3	0.38	0.66	1.43	2.24	0.70	4.60	22.04	23.58	2.12	1.02	0.80	0.70	
4	0.36	0.64	0.98	1.76	2.06	9.82	20.88	65.60	2.06	1.00	0.78	0.70	
5	0.36	0.62	0.88	1.10	31.50	7.33	17.66	26.04	2.00	1.00	0.78	0.70	
6	0.90	0.62	0.86	1.08	17.05	15.44	12.65	22.81	1.94	1.00	0.78	0.70	
7	0.50	0.62	0.82	1.06	9.55	12.39	10.70	21.90	1.88	0.98	0.76	0.70	
8	0.50	0.60	1.25	1.04	6.56	4.80	16.45	20.28	1.82	0.98	0.76	0.70	
9	0.48	0.60	3.90	1.02	22.67	5.94	10.90	13.69	1.76	0.96	0.76	0.68	
10	0.48	0.60	8.65	1.02	13.04	4.70	10.40	10.30	1.70	0.96	0.76	0.68	
11	0.48	0.70	7.12	1.00	51.87	5.46	10.20	8.20	1.67	0.96	0.76	0.68	
12	0.48	1.16	2.92	1.00	12.65	4.50	9.82	7.12	1.61	0.94	0.76	0.68	
13	0.48	0.78	2.36	1.00	10.80	33.00	9.19	6.35	1.55	0.94	0.76	0.68	
14	0.46	0.72	2.12	0.98	8.47	30.40	7.19	5.82	1.52	0.92	0.76	0.66	
15	0.46	0.72	2.33	0.98	7.72	31.70	6.07	5.58	1.46	0.92	0.74	0.66	
16	0.46	0.70	1.91	0.96	7.33	21.72	4.70	5.34	1.40	0.90	0.74	0.66	
17	0.44	0.70	1.70	0.96	6.42	16.30	4.20	5.22	1.34	0.90	0.74	0.66	
18	0.44	1.55	5.34	0.94	5.40	12.91	3.80	5.10	1.28	0.88	0.74	0.66	
19	0.44	1.13	4.80	0.94	4.40	9.64	3.68	4.98	1.25	0.88	0.74	0.66	
20	0.42	0.98	5.22	0.92	4.00	8.12	3.60	4.75	1.22	0.88	0.74	0.66	
21	0.42	0.88	2.72	1.22	3.56	7.56	3.36	4.65	1.19	0.86	0.74	0.64	
22	0.42	2.64	2.30	2.64	4.10	6.98	3.24	4.50	1.19	0.86	0.74	0.64	
23	0.42	1.88	1.37	1.34	3.24	6.63	3.00	4.25	1.16	0.86	0.72	0.64	
24	0.42	1.43	1.34	1.08	3.04	18.78	2.84	3.72	1.16	0.86	0.72	0.64	
25	0.40	1.02	1.28	1.06	3.32	10.20	2.64	3.60	1.13	0.84	0.72	0.64	
26	0.40	0.86	1.25	1.02	3.12	14.21	2.60	3.36	1.10	0.84	0.72	0.64	
27	0.40	0.78	1.22	0.98	3.04	15.30	2.48	3.16	1.10	0.84	0.72	0.64	
28	0.40	1.00	1.16	0.94	2.80	19.35	2.39	2.51	1.08	0.82	0.72	0.64	
29	0.40	0.64	1.13	0.94	2.76	19.15	2.30	2.45	1.06	0.82		0.62	
30	0.90	0.60	1.10	2.27	2.68	27.16	2.18	2.36	1.06	0.82		0.62	
31		0.58		1.19	2.60		30.31		1.04	0.80		0.62	
Total	13.86	27.79	71.34	36.82	258.37	388.93	302.70	326.62	46.30	28.28	21.06	20.64	1542.71 CMSDAY
Mean	0.46	0.90	2.38	1.19	8.33	12.96	9.76	10.89	1.49	0.91	0.75	0.67	4.23 CMS
Max	0.90	2.64	8.65	2.64	51.87	33.00	35.27	65.60	2.27	1.02	0.80	0.72	65.60 CMS
Min	0.36	0.58	0.82	0.92	0.70	2.36	2.18	2.36	1.04	0.80	0.72	0.62	0.36 CMS
Runoff	1.198	2.401	6.164	3.181	22.323	33.604	26.153	28.220	4.000	2.443	1.820	1.783	133.290 MCM

Momentary Peak 73.40 CMS, at 7.90 M (A.D), at 9.00 Hours, on Nov 4, 1996

Runoff Yield 34.09 Liters/Second/Square KM, Momentary Peak Yield 591.935 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

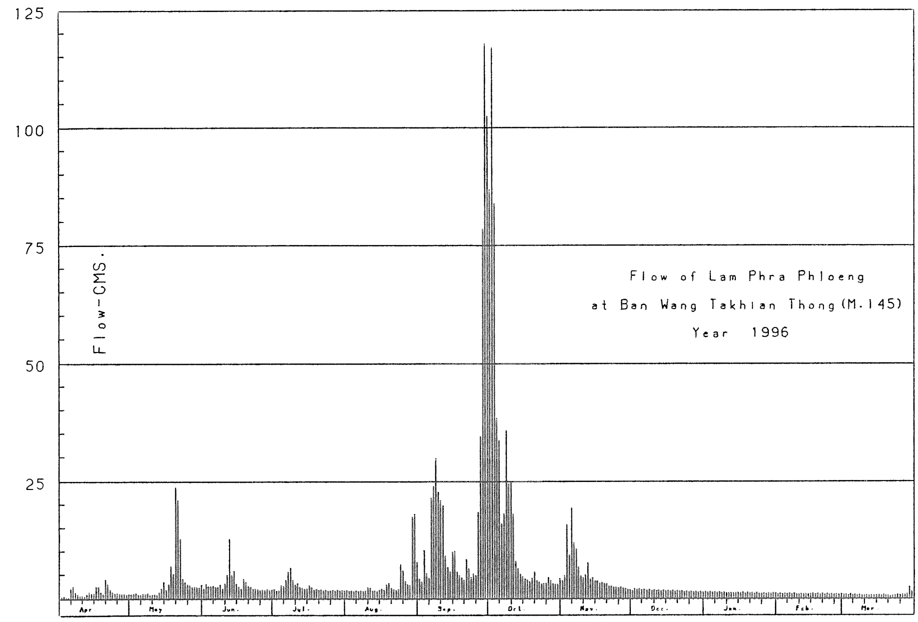
Lam Phra Phloeng at Ban Wang Takhian Thong, Nakhon Ratchasima (M.145)

Location	Lat. 14°-29'-28" N., Long. 101°-41'-13" E., on right bank at Ban Wang Takhian Thong, Amphoe Pak Chong, Nakhon Ratchasima.
Drainage Area	333 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 12 meters from the top staff gage.
Elevation	+7.980 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	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 81 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.10	-0.02	0.26	0.21	0.17	0.69	4.19	0.60	0.18	0.11	0.04	0.00	
2	-0.11	0.05	0.47	0.17	0.16	0.54	4.66	0.80	0.24	0.11	0.04	0.00	
3	-0.13	0.03	0.33	0.15	0.15	1.40	4.14	1.75	0.23	0.11	0.04	0.00	
4	-0.15	0.00	0.36	0.39	0.15	0.90	2.92	1.30	0.22	0.10	0.04	0.00	
5	0.26	0.00	0.35	0.37	0.15	0.71	2.71	1.97	0.22	0.10	0.04	0.00	
6	0.34	0.02	0.33	0.63	0.15	2.10	1.77	1.50	0.21	0.10	0.04	-0.01	
7	0.10	0.03	0.30	0.93	0.15	2.23	1.90	1.42	0.20	0.09	0.04	-0.01	
8	0.00	0.03	0.41	1.03	0.15	2.52	2.82	1.03	0.20	0.09	0.04	-0.02	
9	-0.05	-0.01	0.27	0.62	0.15	2.17	2.25	0.81	0.19	0.09	0.03	-0.02	
10	-0.06	-0.03	0.49	0.44	0.31	2.06	2.27	0.71	0.19	0.08	0.03	-0.02	
11	-0.08	-0.02	0.84	0.46	0.26	2.00	1.89	0.83	0.18	0.08	0.03	-0.03	
12	0.02	-0.01	1.56	0.33	0.18	1.27	1.17	1.13	0.18	0.08	0.03	-0.03	
13	0.10	0.11	0.83	0.27	0.15	1.04	1.00	0.67	0.17	0.08	0.02	-0.03	
14	0.05	0.24	0.95	0.25	0.15	0.93	0.88	0.70	0.17	0.08	0.02	-0.03	
15	0.04	0.51	0.45	0.24	0.17	1.36	0.75	0.60	0.16	0.08	0.02	-0.04	
16	0.30	0.21	0.31	0.41	0.22	1.37	0.65	0.55	0.16	0.08	0.03	-0.04	
17	0.34	0.45	0.25	0.29	0.21	0.94	0.60	0.50	0.16	0.08	0.03	-0.02	
18	0.07	1.05	0.68	0.22	0.44	0.81	0.57	0.49	0.16	0.07	0.03	-0.02	
19	0.02	0.86	0.52	0.21	0.49	0.73	0.69	0.48	0.15	0.07	0.03	-0.03	
20	0.65	2.22	0.38	0.21	0.29	0.60	0.94	0.44	0.15	0.07	0.03	-0.04	
21	0.44	2.06	0.30	0.20	0.21	1.20	0.61	0.37	0.15	0.07	0.02	-0.05	
22	0.22	1.56	0.26	0.19	0.20	1.01	0.51	0.34	0.14	0.06	0.02	-0.05	
23	0.09	0.69	0.24	0.18	0.21	0.73	0.47	0.33	0.13	0.06	0.02	-0.02	
24	0.05	0.51	0.23	0.18	1.09	0.88	0.46	0.31	0.13	0.06	0.02	-0.01	
25	0.04	0.45	0.20	0.18	0.96	0.82	0.50	0.31	0.13	0.06	0.02	0.00	
26	0.02	0.37	0.19	0.18	0.59	1.91	0.74	0.30	0.12	0.05	0.01	0.00	
27	0.03	0.32	0.19	0.18	0.45	2.76	0.59	0.29	0.12	0.05	0.01	0.00	
28	0.01	0.32	0.22	0.18	0.38	4.04	0.48	0.24	0.12	0.05	0.01	0.02	
29	0.00	0.32	0.19	0.18	1.86	4.67	0.44	0.23	0.11	0.05		0.34	
30	-0.01	0.28	0.18	0.18	1.89	4.45	0.44	0.20	0.11	0.05		0.11	
31		0.40		0.18	1.14		0.68		0.11	0.05		0.07	
Mean	0.08	0.42	0.42	0.32	0.43	1.63	1.44	0.71	0.16	0.08	0.03	0.00	
Max	0.65	2.22	1.56	1.03	1.89	4.67	4.66	1.97	0.24	0.11	0.04	0.34	4.67
Min	-0.15	-0.03	0.18	0.15	0.15	0.54	0.44	0.20	0.11	0.05	0.01	-0.05	-0.15

Annual Max Momentary Gage Height 5.58 M (A.D), at 15.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.44 M (A.D)
Left Bank Elevation 7.75 M (A.D)
Right Bank Elevation 7.76 M (A.D), Drainage Area 333 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.90	2.30	2.05	1.85	4.45	86.95	4.00	1.90	1.55	1.20	1.00	
2	0.45	1.25	3.35	1.85	1.80	3.70	117.20	5.00	2.20	1.55	1.20	1.00	
3	0.35	1.15	2.65	1.75	1.75	10.50	84.20	15.80	2.15	1.55	1.20	1.00	
4	0.25	1.00	2.80	2.95	1.75	5.50	38.50	9.50	2.10	1.50	1.20	1.00	
5	2.30	1.00	2.75	2.85	1.75	4.55	33.70	19.49	2.10	1.50	1.20	1.00	
6	2.70	1.10	2.65	4.15	1.75	21.70	16.12	12.00	2.05	1.50	1.20	0.95	
7	1.50	1.15	2.50	5.80	1.75	24.10	18.30	10.80	2.00	1.45	1.20	0.95	
8	1.00	1.15	3.05	6.80	1.75	29.90	36.00	6.80	2.00	1.45	1.20	0.90	
9	0.75	0.95	2.35	4.10	1.75	22.96	24.50	5.05	1.95	1.45	1.15	0.90	
10	0.70	0.85	3.45	3.20	2.55	21.02	24.90	4.55	1.95	1.40	1.15	0.90	
11	0.60	0.90	5.20	3.30	2.30	20.00	18.13	5.15	1.90	1.40	1.15	0.85	
12	1.10	0.95	12.90	2.65	1.90	9.20	8.20	7.80	1.90	1.40	1.15	0.85	
13	1.50	1.55	5.15	2.35	1.75	6.90	6.50	4.35	1.85	1.40	1.10	0.85	
14	1.25	2.20	6.00	2.25	1.75	5.80	5.40	4.50	1.85	1.40	1.10	0.85	
15	1.20	3.55	3.25	2.20	1.85	10.10	4.75	4.00	1.80	1.40	1.10	0.80	
16	2.50	2.05	2.55	3.05	2.10	10.20	4.25	3.75	1.80	1.40	1.15	0.80	
17	2.70	3.25	2.25	2.45	2.05	5.90	4.00	3.50	1.80	1.40	1.15	0.90	
18	1.35	7.00	4.40	2.10	3.20	5.05	3.85	3.45	1.80	1.35	1.15	0.90	
19	1.10	5.30	3.60	2.05	3.45	4.65	4.45	3.40	1.75	1.35	1.15	0.85	
20	4.25	23.90	2.90	2.05	2.45	4.00	5.90	3.20	1.75	1.35	1.15	0.80	
21	3.20	21.02	2.50	2.00	2.05	8.50	4.05	2.85	1.75	1.35	1.10	0.75	
22	2.10	12.90	2.30	1.95	2.00	6.60	3.55	2.70	1.70	1.30	1.10	0.75	
23	1.45	4.45	2.20	1.90	2.05	4.65	3.35	2.65	1.65	1.30	1.10	0.90	
24	1.25	3.55	2.15	1.90	7.40	5.40	3.30	2.55	1.65	1.30	1.10	0.95	
25	1.20	3.25	2.00	1.90	6.10	5.10	3.50	2.55	1.65	1.30	1.10	1.00	
26	1.10	2.85	1.95	1.90	3.95	18.47	4.70	2.50	1.60	1.25	1.05	1.00	
27	1.15	2.60	1.95	1.90	3.25	34.70	3.95	2.45	1.60	1.25	1.05	1.00	
28	1.05	2.60	2.10	1.90	2.90	78.70	3.40	2.20	1.60	1.25	1.05	1.10	
29	1.00	2.60	1.95	1.90	17.62	117.90	3.20	2.15	1.55	1.25		2.70	
30	0.95	2.40	1.90	1.90	18.13	102.75	3.20	2.00	1.55	1.25		1.55	
31		3.00		1.90	7.90		4.40		1.55	1.25		1.35	
Total	42.50	122.37	97.05	81.00	114.60	612.95	586.40	160.69	56.45	42.80	31.90	31.10	1979.81 CMSDAY
Mean	1.42	3.95	3.23	2.61	3.70	20.43	18.92	5.36	1.82	1.38	1.14	1.00	5.42 CMS
Max	4.25	23.90	12.90	6.80	18.13	117.90	117.20	19.49	2.20	1.55	1.20	2.70	117.90 CMS
Min	0.25	0.85	1.90	1.75	1.75	3.70	3.20	2.00	1.55	1.25	1.05	0.75	0.25 CMS
Runoff	3.672	10.573	8.385	6.998	9.901	52.959	50.665	13.884	4.877	3.698	2.756	2.687	171.056 MCM

Momentary Peak 233.40 CMS, at 5.58 M (A.D), at 15.00 Hours, on Oct 2, 1996
Runoff Yield 16.29 Liters/Second/Square KM, Momentary Peak Yield 700.901 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

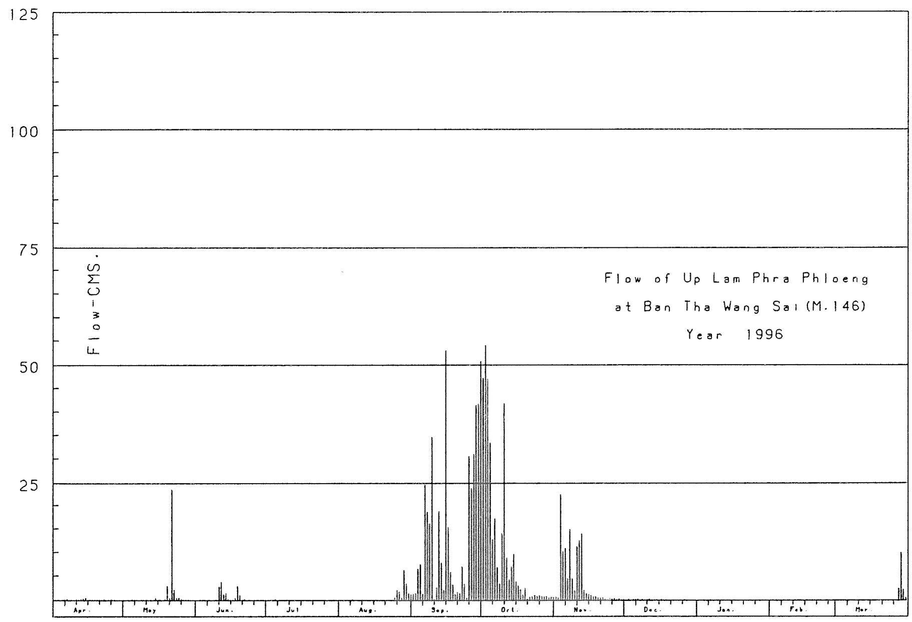
Lam Phra Phloeng at Ban Tha Wang Sai, Nakhon Ratchasima (M.146)

Location	Lat. 14°-25′-01″ N., Long. 101°-40′-43″ E., on left bank at the bridge on road, Ban Tha Wang Sai, King Amphoe Wang Nam Khieo, Nakhon Ratchasima.
Drainage Area	82 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	+4.410 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	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +3.37 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.37	1.15	1.11	1.12	1.09	1.89	4.20	1.74	1.42	1.20	1.06	1.00	
2	1.29	1.15	1.09	1.11	1.08	1.94	4.38	1.55	1.41	1.20	1.06	1.00	
3	1.27	1.15	1.08	1.09	1.07	2.59	4.19	3.40	1.40	1.19	1.06	1.00	
4	1.28	1.14	1.17	1.12	1.06	2.66	3.80	2.82	1.40	1.19	1.05	1.00	
5	1.39	1.21	1.12	1.14	1.06	1.92	2.96	2.87	1.40	1.18	1.05	0.99	
6	1.48	1.12	1.12	1.14	1.05	3.48	3.18	2.41	1.38	1.18	1.05	0.99	
7	1.35	1.07	1.10	1.11	1.05	3.25	2.62	3.07	1.38	1.18	1.05	0.99	
8	1.29	1.06	1.10	1.11	1.04	3.13	2.30	2.42	1.37	1.17	1.05	0.98	
9	1.35	1.06	1.14	1.27	1.04	3.84	3.03	2.06	1.37	1.16	1.05	0.98	
10	1.37	1.06	2.20	1.34	1.17	1.23	4.05	2.89	1.36	1.15	1.04	0.98	
11	1.37	1.05	2.33	1.20	1.17	2.15	2.74	2.95	1.36	1.15	1.04	0.98	
12	1.45	1.05	1.89	1.14	1.12	3.25	2.40	3.03	1.35	1.14	1.04	0.97	
13	1.54	1.25	1.92	1.13	1.12	2.68	2.63	2.05	1.35	1.13	1.04	0.97	
14	1.54	1.61	1.49	1.13	1.16	2.08	2.79	1.94	1.34	1.13	1.04	0.97	
15	1.40	1.30	1.33	1.10	1.16	4.35	2.34	1.86	1.33	1.13	1.10	0.96	
16	1.34	1.32	1.26	1.09	1.13	3.10	2.23	1.81	1.34	1.12	1.08	0.96	
17	1.38	1.22	1.61	1.08	1.13	2.53	2.08	1.75	1.32	1.11	1.06	0.95	
18	1.33	1.41	2.22	1.07	1.12	2.27	1.85	1.73	1.29	1.10	1.04	0.95	
19	1.38	2.23	1.81	1.06	1.11	1.90	2.15	1.66	1.28	1.10	1.04	0.95	
20	1.35	1.57	1.41	1.08	1.11	1.98	1.35	1.64	1.28	1.10	1.03	0.94	
21	1.34	3.44	1.30	1.10	1.13	1.93	1.72	1.61	1.27	1.09	1.03	0.93	
22	1.34	2.08	1.26	1.10	1.05	2.63	1.76	1.45	1.27	1.09	1.03	0.94	
23	1.18	1.63	1.22	1.09	1.02	2.28	1.80	1.40	1.26	1.09	1.02	0.95	
24	1.14	1.55	1.20	1.08	1.68	1.64	1.78	1.54	1.25	1.08	1.01	0.97	
25	1.13	1.46	1.19	1.07	2.07	3.70	1.78	1.52	1.24	1.08	1.01	0.97	
26	1.10	1.36	1.20	1.07	1.98	3.45	1.77	1.49	1.24	1.07	1.01	0.97	
27	1.10	1.31	1.25	1.10	1.64	3.72	1.75	1.47	1.23	1.07	1.01	2.14	
28	1.11	1.32	1.19	1.11	2.58	4.04	1.74	1.45	1.23	1.07	1.01	2.82	
29	1.12	1.19	1.16	1.10	2.29	4.05	1.68	1.44	1.22	1.07		2.09	
30	1.12	1.15	1.14	1.08	1.94	4.29	1.67	1.43	1.22	1.06		1.70	
31		1.12		1.08	1.84		1.65		1.21	1.06		1.50	
Mean	1.31	1.38	1.39	1.12	1.33	2.80	2.46	2.02	1.32	1.12	1.04	1.14	
Max	1.54	3.44	2.33	1.34	2.58	4.35	4.38	3.40	1.42	1.20	1.10	2.82	4.38
Min	1.10	1.05	1.08	1.06	1.02	1.23	1.35	1.40	1.21	1.06	1.01	0.93	0.93

Annual Max Momentary Gage Height 4.50 M (A.D), at 16.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.35 M (A.D)
Left Bank Elevation 3.51 M (A.D)
Right Bank Elevation 3.36 M (A.D), Drainage Area 82 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.03	0.02	0.03	0.02	1.26	47.40	0.74	0.22	0.05	0.01	0.00	
2	0.10	0.03	0.02	0.02	0.02	1.46	54.30	0.37	0.21	0.05	0.01	0.00	
3	0.09	0.03	0.02	0.02	0.01	6.58	47.03	22.60	0.20	0.05	0.01	0.00	
4	0.09	0.03	0.04	0.03	0.01	7.66	33.60	10.24	0.20	0.05	0.01	0.00	
5	0.19	0.06	0.03	0.03	0.01	1.38	12.80	11.09	0.20	0.04	0.01	0.00	
6	0.28	0.03	0.03	0.03	0.01	24.68	17.28	4.51	0.18	0.04	0.01	0.00	
7	0.15	0.01	0.02	0.02	0.01	18.90	7.02	15.00	0.18	0.04	0.01	0.00	
8	0.10	0.01	0.02	0.02	0.01	16.23	3.50	4.62	0.17	0.04	0.01	0.00	
9	0.15	0.01	0.03	0.09	0.01	34.84	14.20	2.06	0.17	0.04	0.01	0.00	
10	0.17	0.01	2.90	0.14	0.04	0.07	41.85	11.43	0.16	0.03	0.01	0.00	
11	0.17	0.01	3.77	0.05	0.04	2.60	8.94	12.60	0.16	0.03	0.01	0.00	
12	0.25	0.01	1.26	0.03	0.03	18.90	4.40	14.20	0.15	0.03	0.01	0.00	
13	0.36	0.08	1.38	0.03	0.03	7.98	7.18	2.00	0.15	0.03	0.01	0.00	
14	0.36	0.47	0.29	0.03	0.04	2.18	9.74	1.46	0.14	0.03	0.01	0.00	
15	0.20	0.10	0.13	0.02	0.04	53.10	3.86	1.16	0.13	0.03	0.02	0.00	
16	0.14	0.12	0.08	0.02	0.03	15.60	3.08	0.98	0.14	0.03	0.02	0.00	
17	0.18	0.06	0.47	0.02	0.03	5.86	2.18	0.77	0.12	0.02	0.01	0.00	
18	0.13	0.21	3.02	0.01	0.03	3.32	1.13	0.71	0.10	0.02	0.01	0.00	
19	0.18	3.08	0.98	0.01	0.02	1.30	2.60	0.54	0.09	0.02	0.01	0.00	
20	0.15	0.41	0.21	0.02	0.02	1.62	0.15	0.51	0.09	0.02	0.01	0.00	
21	0.14	23.64	0.10	0.02	0.03	1.42	0.67	0.47	0.09	0.02	0.01	0.00	
22	0.14	2.18	0.08	0.02	0.01	7.18	0.81	0.25	0.09	0.02	0.01	0.00	
23	0.04	0.49	0.06	0.02	0.00	3.38	0.95	0.20	0.08	0.02	0.00	0.00	
24	0.03	0.37	0.05	0.02	0.57	0.51	0.88	0.36	0.08	0.02	0.00	0.00	
25	0.03	0.26	0.05	0.01	2.12	30.60	0.88	0.33	0.07	0.02	0.00	0.00	
26	0.02	0.16	0.05	0.01	1.62	23.90	0.84	0.29	0.07	0.01	0.00	0.00	
27	0.02	0.11	0.08	0.02	0.51	31.20	0.77	0.27	0.07	0.01	0.00	2.54	
28	0.02	0.12	0.05	0.02	6.46	41.48	0.74	0.25	0.07	0.01	0.00	10.24	
29	0.03	0.05	0.04	0.02	3.44	41.85	0.57	0.24	0.06	0.01		2.24	
30	0.03	0.03	0.03	0.02	1.46	50.73	0.55	0.23	0.06	0.01		0.60	
31		0.03		0.02	1.09		0.52		0.06	0.01		0.30	
Total	4.11	32.24	15.31	0.87	17.77	457.77	330.42	120.48	3.96	0.85	0.24	15.92	999.94 CMSDAY
Mean	0.14	1.04	0.51	0.03	0.57	15.26	10.66	4.02	0.13	0.03	0.01	0.51	2.74 CMS
Max	0.36	23.64	3.77	0.14	6.46	53.10	54.30	22.60	0.22	0.05	0.02	10.24	54.30 CMS
Min	0.02	0.01	0.02	0.01	0.00	0.07	0.15	0.20	0.06	0.01	0.00	0.00	0.00 CMS
Runoff	0.355	2.786	1.323	0.075	1.535	39.551	28.548	10.409	0.342	0.073	0.021	1.375	86.395 MCM

Momentary Peak 59.30 CMS, at 4.50 M (A.D), at 16.00 Hours, on Oct 2, 1996

Runoff Yield 33.41 Liters/Second/Square KM, Momentary Peak Yield 723.171 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

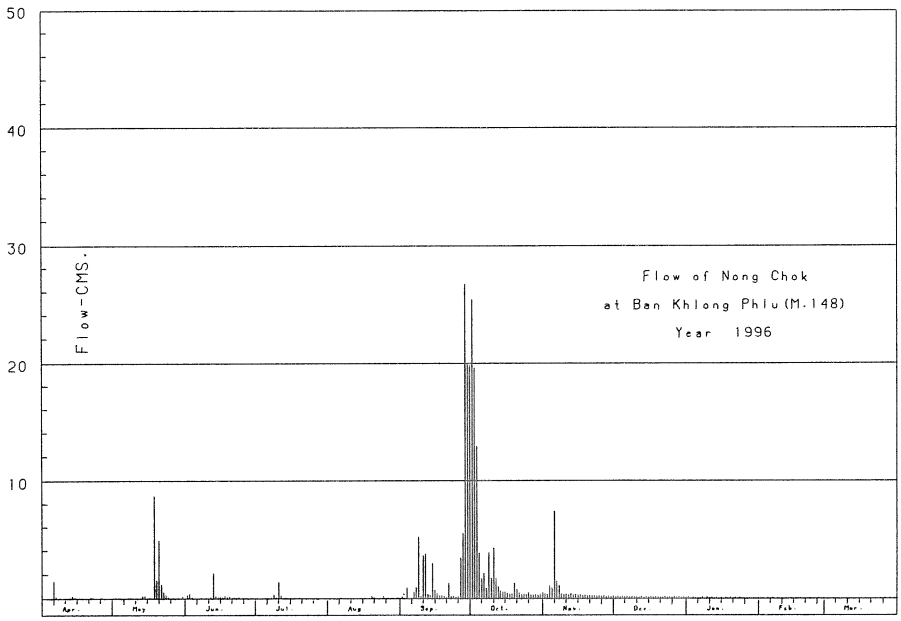
Huai Chok at Ban Khlong Phlu, Nakhon Ratchasima (M.148)

Location	Lat. 14°-28′-52″ N., Long. 101°-39′-32″ E., on left bank at the bridge on road, Ban Khlong Phlu, Amphoe Pak Chong, Nakhon Ratchasima.
Drainage Area	48 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 8.00 meters from the top staff gage.
Elevation	+4.893 m.(A.D.)
Gage Reading Frequency	5-times daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.46 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.74	1.10	0.76	0.80	0.95	4.46	1.20	1.01	0.96	0.91	0.90	
2	0.69	0.74	1.19	0.75	0.79	0.92	4.07	1.19	1.01	0.95	0.91	0.89	
3	0.68	0.74	0.92	0.77	0.79	1.46	3.49	1.50	1.00	0.95	0.91	0.89	
4	0.67	0.74	0.89	0.80	0.79	0.89	2.21	1.44	1.00	0.95	0.92	0.89	
5	1.64	0.74	0.88	0.78	0.79	0.85	1.71	2.84	1.00	0.95	0.92	0.89	
6	0.99	0.74	0.86	0.88	0.79	1.30	1.81	1.63	1.00	0.95	0.91	0.89	
7	0.89	0.89	0.85	0.93	0.78	1.44	1.44	1.52	1.00	0.95	0.91	0.89	
8	0.86	0.87	0.87	1.18	0.78	2.50	2.22	1.21	1.00	0.94	0.91	0.88	
9	0.79	0.79	0.87	0.89	0.78	1.00	1.72	1.20	1.00	0.94	0.90	0.88	
10	0.75	0.77	0.89	1.62	0.77	2.17	2.31	1.17	1.00	0.94	0.90	0.88	
11	0.74	0.77	0.98	1.06	0.83	2.20	1.70	1.17	1.00	0.94	0.90	0.88	
12	0.89	0.78	1.83	0.92	0.80	1.21	1.48	1.21	1.00	0.94	0.90	0.88	
13	1.04	1.05	1.01	0.90	0.78	1.08	1.32	1.18	0.99	0.94	0.90	0.88	
14	0.86	1.00	0.98	0.90	0.78	2.04	1.29	1.17	0.99	0.94	0.90	0.88	
15	0.81	0.88	0.97	0.89	0.78	1.38	1.27	1.15	0.99	0.93	0.91	0.88	
16	0.80	0.85	0.97	0.88	0.79	1.21	1.23	1.13	0.99	0.93	0.91	0.87	
17	0.79	0.83	1.02	0.87	0.78	1.09	1.21	1.11	0.99	0.93	0.92	0.87	
18	0.78	3.01	0.97	0.85	0.78	1.05	1.19	1.10	0.99	0.93	0.92	0.87	
19	0.78	1.65	0.96	0.84	1.04	0.99	1.57	1.09	0.99	0.93	0.92	0.87	
20	0.84	2.43	0.95	0.83	0.86	0.96	1.41	1.08	0.99	0.93	0.91	0.87	
21	0.96	1.55	0.94	0.82	0.82	1.58	1.24	1.08	0.99	0.93	0.91	0.87	
22	0.84	1.29	0.92	0.81	0.81	1.03	1.20	1.06	0.98	0.92	0.91	0.87	
23	0.78	1.09	0.90	0.81	0.80	0.98	1.18	1.06	0.98	0.92	0.91	0.87	
24	0.76	0.93	0.88	0.82	1.03	0.97	1.19	1.05	0.98	0.92	0.91	0.87	
25	0.76	0.90	0.86	0.82	0.84	0.97	1.26	1.05	0.98	0.92	0.90	0.87	
26	0.75	0.88	0.83	0.82	0.81	2.14	1.16	1.04	0.98	0.92	0.90	0.87	
27	0.75	0.86	0.80	0.81	0.80	2.55	1.15	1.03	0.97	0.91	0.90	0.88	
28	0.74	0.86	0.78	0.81	0.80	4.53	1.14	1.02	0.97	0.91	0.90	0.90	
29	0.74	0.85	0.77	0.80	0.80	4.10	1.14	1.02	0.97	0.91		0.90	
30	0.74	0.98	0.76	0.80	0.93	4.09	1.20	1.01	0.96	0.91		0.89	
31		0.83		0.80	0.86		1.28		0.96	0.91		0.89	
Mean	0.83	1.03	0.95	0.88	0.82	1.65	1.69	1.22	0.99	0.93	0.91	0.88	
Max	1.64	3.01	1.83	1.62	1.04	4.53	4.46	2.84	1.01	0.96	0.92	0.90	4.53
Min	0.67	0.74	0.76	0.75	0.77	0.85	1.14	1.01	0.96	0.91	0.90	0.87	0.67

Annual Max Momentary Gage Height 5.00 M (A.D), at 18.00 Hours, on Sep 29, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.31 M (A.D)
Left Bank Elevation 4.45 M (A.D)
Right Bank Elevation 4.60 M (A.D), Drainage Area 48 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.02	0.30	0.03	0.05	0.15	25.48	0.40	0.21	0.16	0.11	0.10	
2	0.00	0.02	0.39	0.03	0.05	0.12	19.61	0.39	0.21	0.15	0.11	0.10	
3	0.00	0.02	0.12	0.04	0.05	0.98	13.01	1.10	0.20	0.15	0.11	0.10	
4	0.00	0.02	0.10	0.05	0.05	0.10	3.85	0.92	0.20	0.15	0.12	0.10	
5	1.52	0.02	0.09	0.04	0.05	0.08	1.74	7.48	0.20	0.15	0.12	0.10	
6	0.19	0.02	0.08	0.09	0.05	0.60	2.14	1.49	0.20	0.15	0.11	0.10	
7	0.10	0.10	0.08	0.13	0.04	0.92	0.92	1.16	0.20	0.15	0.11	0.10	
8	0.08	0.09	0.09	0.38	0.04	5.30	3.90	0.42	0.20	0.14	0.11	0.09	
9	0.05	0.05	0.09	0.10	0.04	0.20	1.78	0.40	0.20	0.14	0.10	0.09	
10	0.03	0.04	0.10	1.46	0.04	3.65	4.35	0.37	0.20	0.14	0.10	0.09	
11	0.02	0.04	0.18	0.26	0.07	3.80	1.70	0.37	0.20	0.14	0.10	0.09	
12	0.10	0.04	2.22	0.12	0.05	0.42	1.04	0.42	0.20	0.14	0.10	0.09	
13	0.24	0.25	0.21	0.10	0.04	0.28	0.64	0.38	0.19	0.14	0.10	0.09	
14	0.08	0.20	0.18	0.10	0.04	3.06	0.58	0.37	0.19	0.14	0.10	0.09	
15	0.06	0.09	0.17	0.10	0.04	0.76	0.54	0.35	0.19	0.13	0.11	0.09	
16	0.05	0.08	0.17	0.09	0.05	0.42	0.46	0.33	0.19	0.13	0.11	0.09	
17	0.05	0.07	0.22	0.09	0.04	0.29	0.42	0.31	0.19	0.13	0.12	0.09	
18	0.04	8.78	0.17	0.08	0.04	0.25	0.39	0.30	0.19	0.13	0.12	0.09	
19	0.04	1.55	0.16	0.07	0.24	0.19	1.31	0.29	0.19	0.13	0.12	0.09	
20	0.07	4.95	0.15	0.07	0.08	0.16	0.83	0.28	0.19	0.13	0.11	0.09	
21	0.16	1.25	0.14	0.06	0.06	1.34	0.48	0.28	0.19	0.13	0.11	0.09	
22	0.07	0.58	0.12	0.06	0.06	0.23	0.40	0.26	0.18	0.12	0.11	0.09	
23	0.04	0.29	0.10	0.06	0.05	0.18	0.38	0.26	0.18	0.12	0.11	0.09	
24	0.03	0.13	0.09	0.06	0.23	0.17	0.39	0.25	0.18	0.12	0.11	0.09	
25	0.03	0.10	0.08	0.06	0.07	0.17	0.52	0.25	0.18	0.12	0.10	0.09	
26	0.03	0.09	0.07	0.06	0.06	3.50	0.36	0.24	0.18	0.12	0.10	0.09	
27	0.03	0.08	0.05	0.06	0.05	5.60	0.35	0.23	0.17	0.11	0.10	0.09	
28	0.02	0.08	0.04	0.06	0.05	26.74	0.34	0.22	0.17	0.11	0.10	0.10	
29	0.02	0.08	0.04	0.05	0.05	20.00	0.34	0.22	0.17	0.11		0.10	
30	0.02	0.18	0.03	0.05	0.13	19.87	0.40	0.21	0.16	0.11		0.10	
31		0.07		0.05	0.08		0.56		0.16	0.11		0.10	
Total	3.17	19.38	6.03	4.06	2.04	99.53	89.21	19.95	5.86	4.10	3.03	2.90	259.26 CMSDAY
Mean	0.11	0.63	0.20	0.13	0.07	3.32	2.88	0.66	0.19	0.13	0.11	0.09	0.71 CMS
Max	1.52	8.78	2.22	1.46	0.24	26.74	25.48	7.48	0.21	0.16	0.12	0.10	26.74 CMS
Min	0.00	0.02	0.03	0.03	0.04	0.08	0.34	0.21	0.16	0.11	0.10	0.09	0.00 CMS
Runoff	0.274	1.674	0.521	0.351	0.176	8.599	7.708	1.724	0.506	0.354	0.262	0.251	22.400 MCM

Momentary Peak 37.80 CMS, at 5.00 M (A.D), at 18.00 Hours, on Sep 29, 1996
Runoff Yield 14.80 Liters/Second/Square KM, Momentary Peak Yield 787.500 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

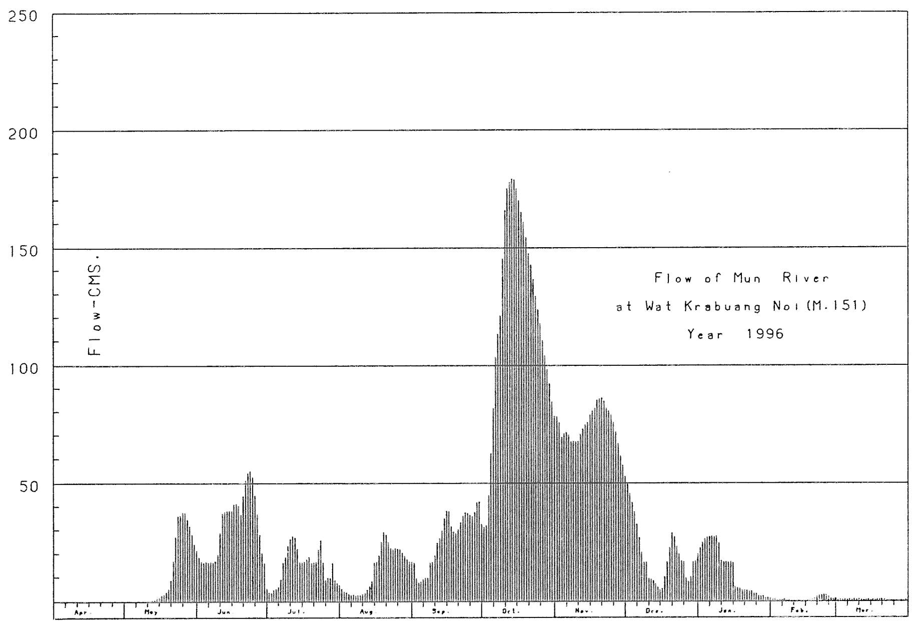
Mun River at Ban Chabok, Nakhon Ratchasima (M.151)

Location	Lat. 15°-13′-03″ N., Long. 102°-28′-08″ E., on right bank at the bridge on Nakhon Ratchasima - Phimai Highway, Amphoe Phimai, Nakhon Ratchasima.
Drainage Area	11,872 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+149.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 35 meters from the measuring line.
Elevation	+153.190 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	1994 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation + 152.82 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Flow effected by Phimai Barrage. Stage-discharge relation defined by 24 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.34	149.12	152.15	151.22	151.48	151.94	152.44	153.25	152.80	152.25	150.34	150.22	
2	149.30	149.13	152.08	151.22	151.33	151.86	152.46	153.21	152.72	152.30	150.26	150.21	
3	149.25	149.14	151.99	151.41	151.22	151.74	152.71	153.12	152.65	152.34	150.21	150.19	
4	149.27	149.17	151.97	151.50	151.10	151.76	153.01	153.14	152.57	152.35	150.05	150.19	
5	149.25	149.18	152.00	151.59	151.02	151.84	153.30	153.15	152.47	152.36	150.01	150.19	
6	149.23	149.21	152.02	151.82	150.99	151.87	153.57	153.13	152.35	152.36	149.96	150.20	
7	149.21	149.23	152.05	152.01	150.95	151.88	153.69	153.09	152.20	152.36	149.89	150.25	
8	149.18	149.30	152.09	152.15	150.93	151.94	153.78	153.09	152.02	152.36	149.84	150.29	
9	149.15	149.33	152.18	152.27	150.97	151.99	154.05	153.09	151.96	152.30	149.80	150.29	
10	149.13	149.46	152.39	152.33	151.05	152.17	154.28	153.09	151.86	152.11	149.74	150.27	
11	149.11	149.70	152.56	152.36	151.20	152.29	154.37	153.14	151.83	152.08	149.67	150.25	
12	149.09	150.06	152.57	152.35	151.40	152.34	154.40	153.17	151.80	152.04	149.64	150.20	
13	149.13	150.25	152.58	152.23	151.64	152.41	154.41	153.20	151.69	152.01	149.56	150.18	
14	149.13	150.46	152.58	152.09	151.78	152.52	154.41	153.21	151.58	151.99	149.52	150.15	
15	149.13	150.69	152.58	152.03	151.97	152.58	154.37	153.26	151.39	151.93	149.49	150.14	
16	149.13	150.86	152.63	152.08	152.03	152.57	154.32	153.28	151.47	151.58	149.68	150.15	
17	149.13	151.06	152.64	152.13	152.17	152.45	154.27	153.30	151.90	151.55	149.95	150.16	
18	149.13	151.21	152.62	152.15	152.31	152.40	154.22	153.34	152.09	151.49	150.27	150.21	
19	149.12	151.48	152.55	151.94	152.40	152.39	154.15	153.35	152.25	151.43	150.55	150.26	
20	149.12	151.80	152.70	151.92	152.38	152.42	154.07	153.35	152.39	151.39	150.76	150.32	
21	149.11	152.11	152.82	152.05	152.30	152.48	154.02	153.34	152.36	151.36	150.90	150.32	
22	149.11	152.36	152.88	152.23	152.24	152.54	153.95	153.30	152.26	151.34	150.97	150.14	
23	149.10	152.54	152.89	152.32	152.23	152.56	153.87	153.28	152.18	151.27	151.02	149.91	
24	149.10	152.54	152.85	152.06	152.24	152.56	153.81	153.26	152.11	151.15	150.96	149.71	
25	149.10	152.57	152.71	151.83	152.24	152.54	153.74	153.21	151.98	151.04	150.77	149.56	
26	149.09	152.56	152.55	151.87	152.23	152.53	153.66	153.15	151.86	150.95	150.55	149.69	
27	149.09	152.51	152.38	151.89	152.20	152.57	153.58	153.08	151.78	150.86	150.36	149.82	
28	149.09	152.45	152.19	151.91	152.16	152.65	153.50	153.00	151.90	150.75	150.26	149.89	
29	149.09	152.38	151.93	151.82	152.13	152.65	153.43	152.93	152.01	150.65		149.97	
30	149.10	152.28	151.54	151.74	152.07	152.47	153.33	152.85	152.11	150.55		150.04	
31		152.22		151.66	152.03		153.25		152.18	150.43		150.09	
Mean	149.15	150.85	152.39	151.94	151.75	152.30	153.76	153.18	152.09	151.64	150.18	150.11	
Max	149.34	152.57	152.89	152.36	152.40	152.65	154.41	153.35	152.80	152.36	151.02	150.32	154.41
Min	149.09	149.12	151.54	151.22	150.93	151.74	152.44	152.85	151.39	150.43	149.49	149.56	149.09

Annual Max Momentary Gage Height 154.42 M (MSL), at 6.00 Hours, on Oct 13, 1996
Zero Gage at Bottom Elevation 149.00 M (MSL), River Bed 148.57 M (MSL)
Left Bank Elevation 153.31 M (MSL)
Right Bank Elevation 152.81 M (MSL), Drainage Area 11872 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.0	18.8	3.7	5.3	16.5	31.4	78.5	50.0	22.9	1.0	0.8	
2	0.1	0.0	16.8	3.7	4.3	9.7	32.4	75.7	45.8	25.0	0.9	0.8	
3	0.1	0.0	16.6	4.8	3.7	7.9	45.2	69.7	42.1	26.8	0.8	0.8	
4	0.1	0.0	16.6	5.4	3.2	8.2	62.5	71.0	38.0	27.2	0.7	0.8	
5	0.1	0.0	16.6	6.1	2.9	9.4	82.0	71.7	32.9	27.6	0.6	0.8	
6	0.1	0.1	16.7	9.0	2.8	9.9	103.6	70.4	27.2	27.6	0.6	0.8	
7	0.1	0.1	16.7	16.6	2.6	10.1	113.2	67.7	20.8	27.6	0.5	0.8	
8	0.0	0.1	16.8	18.8	2.5	16.5	121.2	67.7	16.7	27.6	0.4	0.9	
9	0.0	0.1	20.0	23.7	2.7	16.6	145.5	67.7	16.5	25.0	0.4	0.9	
10	0.0	0.2	29.0	26.3	3.0	19.6	166.2	67.7	9.7	17.2	0.3	0.9	
11	0.0	0.3	37.5	27.6	3.6	24.6	175.0	71.0	9.2	16.8	0.3	0.8	
12	0.0	0.7	38.0	27.2	4.7	26.8	178.0	73.0	8.7	16.7	0.3	0.8	
13	0.0	0.8	38.5	22.1	6.7	29.9	179.1	75.0	7.3	16.6	0.2	0.8	
14	0.0	1.2	38.5	16.8	8.4	35.4	179.1	75.7	6.0	16.6	0.2	0.7	
15	0.0	1.8	38.5	16.7	16.6	38.5	175.0	79.2	4.6	16.5	0.2	0.7	
16	0.0	2.3	41.1	16.8	16.7	38.0	170.0	80.6	5.2	6.0	0.3	0.7	
17	0.0	3.0	41.6	18.0	19.6	31.9	165.3	82.0	10.4	5.8	0.5	0.8	
18	0.0	3.7	40.5	18.8	25.4	29.4	160.8	85.2	16.8	5.3	0.9	0.8	
19	0.0	5.3	37.0	16.5	29.4	29.0	154.5	86.0	22.9	4.9	1.4	0.9	
20	0.0	8.7	44.7	16.5	28.5	30.4	147.3	86.0	29.0	4.6	2.0	0.9	
21	0.0	17.2	51.2	16.7	25.0	33.4	142.8	85.2	27.6	4.5	2.4	0.9	
22	0.0	27.6	54.6	22.1	22.5	36.4	136.5	82.0	23.3	4.3	2.7	0.7	
23	0.0	36.4	55.2	25.9	22.1	37.5	129.3	80.6	20.0	4.0	2.9	0.5	
24	0.0	36.4	52.9	16.7	22.5	37.5	123.9	79.2	17.2	3.4	2.6	0.3	
25	0.0	38.0	45.2	9.2	22.5	36.4	117.6	75.7	16.6	3.0	2.0	0.2	
26	0.0	37.5	37.0	9.9	22.1	35.9	110.8	71.7	9.7	2.6	1.4	0.3	
27	0.0	34.9	28.5	10.2	20.8	38.0	104.4	67.1	8.4	2.3	1.0	0.4	
28	0.0	31.9	20.4	16.5	19.2	42.1	98.0	61.8	10.4	2.0	0.9	0.5	
29	0.0	28.5	16.5	9.0	18.0	42.1	92.4	57.6	16.6	1.6		0.6	
30	0.0	24.2	5.7	7.9	16.7	32.9	84.4	52.9	17.2	1.4		0.6	
31		21.6		6.9	16.7		78.5		20.0	1.2		0.7	
Total	0.7	362.6	947.7	466.1	420.7	810.5	3805.9	2215.3	606.8	394.6	28.4	21.9	10081.2 CMSDAY
Mean	0.0	11.7	31.6	15.0	13.6	27.0	122.8	73.8	19.6	12.7	1.0	0.7	27.6 CMS
Max	0.1	38.0	55.2	27.6	29.4	42.1	179.1	86.0	50.0	27.6	2.9	0.9	179.1 CMS
Min	0.0	0.0	5.7	3.7	2.5	7.9	31.4	52.9	4.6	1.2	0.2	0.2	0.0 CMS
Runoff	0.06	31.33	81.88	40.27	36.35	70.03	328.83	191.40	52.43	34.09	2.45	1.89	871.02 MCM

Momentary Peak 180.20 CMS, at 154.42 M (MSL), at 6.00 Hours, on Oct 13, 1996

Runoff Yield 2.33 Liters/Second/Square KM, Momentary Peak Yield 15.179 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

Huai Bon at Ban Phon Thong, Ubon Ratchathani (M.152)

Location Lat. 14°-27′-53″ N., Long. 105°-06′-19″ E., on left bank at the bridge on road, Ban Phon Thong, Amphoe Nam Yuen, Ubon Ratchathani.

Drainage Area 212 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 footpath of the bridge.

Elevation +9.719 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 1996 to date.

Rating Operation

Period of Rating 1996 to date.

Rated by Float -

Rated by Current Meter 1996 to date.

Stability of Channel Regimes Fairly stable.

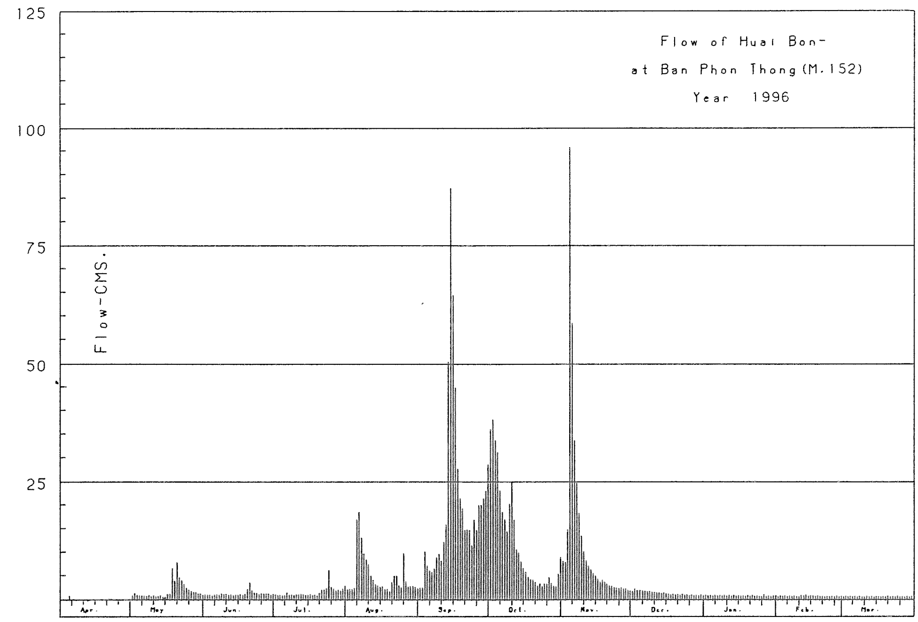
Overbank Flow Conditions No overbank flow.

General Description Records good. Stage-discharge relation defined by 78 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	1.21	1.26	1.25	1.58	1.63	4.06	2.13	1.51	1.21	1.12	1.09	
2	0.55	1.35	1.29	1.25	1.58	1.65	4.20	2.12	1.59	1.21	1.12	1.09	
3	0.60	1.26	1.24	1.21	1.59	2.27	3.91	2.54	1.55	1.20	1.15	1.09	
4	1.18	1.21	1.22	1.23	1.62	2.06	3.73	6.57	1.52	1.20	1.15	1.09	
5	0.79	1.17	1.26	1.27	2.66	1.99	3.09	5.23	1.53	1.19	1.15	1.09	
6	0.69	1.15	1.27	1.40	2.73	1.95	2.73	3.91	1.50	1.19	1.13	1.09	
7	0.65	1.15	1.26	1.27	2.45	2.02	2.66	3.23	1.50	1.19	1.13	1.09	
8	0.64	1.14	1.33	1.21	2.23	2.18	2.52	2.72	1.49	1.18	1.13	1.08	
9	0.61	1.12	1.31	1.25	2.16	2.24	2.85	2.47	1.46	1.18	1.14	1.08	
10	0.60	1.13	1.31	1.22	2.08	2.13	3.26	2.27	1.44	1.18	1.13	1.08	
11	0.58	1.12	1.28	1.27	1.90	2.40	2.65	2.15	1.44	1.18	1.15	1.08	
12	0.58	1.12	1.26	1.34	1.82	2.60	2.30	2.06	1.40	1.17	1.21	1.08	
13	0.59	1.14	1.24	1.28	1.74	4.85	2.25	2.01	1.40	1.17	1.18	1.08	
14	0.64	1.05	1.23	1.26	1.70	6.30	2.13	1.94	1.39	1.17	1.16	1.07	
15	0.72	0.93	1.28	1.27	1.67	5.47	2.02	1.90	1.39	1.17	1.15	1.07	
16	0.68	1.24	1.25	1.25	1.66	4.57	1.96	1.84	1.32	1.16	1.14	1.06	
17	0.65	1.35	1.26	1.24	1.58	3.48	1.88	1.79	1.30	1.16	1.13	1.07	
18	0.62	2.02	1.27	1.21	1.57	2.96	1.82	1.82	1.30	1.16	1.16	1.08	
19	0.60	1.81	1.59	1.20	1.50	2.77	1.83	1.79	1.30	1.16	1.12	1.08	
20	0.68	2.12	1.78	1.36	1.77	2.54	1.77	1.74	1.28	1.16	1.10	1.08	
21	0.90	1.86	1.51	1.55	1.88	2.54	1.71	1.71	1.29	1.15	1.10	1.07	
22	0.76	1.82	1.42	1.56	1.90	2.53	1.73	1.69	1.29	1.15	1.09	1.07	
23	0.71	1.73	1.35	1.60	1.71	2.35	1.70	1.66	1.27	1.15	1.10	1.07	
24	0.67	1.64	1.32	2.00	1.63	2.65	1.74	1.63	1.25	1.14	1.10	1.07	
25	0.64	1.54	1.32	1.68	2.25	2.54	1.75	1.63	1.24	1.14	1.10	1.07	
26	0.72	1.48	1.38	1.60	1.79	2.82	1.87	1.64	1.23	1.26	1.10	1.06	
27	0.72	1.46	1.38	1.53	1.68	2.81	1.75	1.61	1.23	1.14	1.10	1.06	
28	0.67	1.41	1.31	1.55	1.68	2.96	1.70	1.60	1.23	1.13	1.10	1.06	
29	0.63	1.37	1.28	1.53	1.70	3.08	1.66	1.55	1.23	1.13		1.06	
30	0.72	1.32	1.27	1.60	1.65	3.54	1.93	1.50	1.22	1.13		1.07	
31		1.28		1.69	1.62		2.19		1.21	1.13		1.08	
Mean	0.68	1.38	1.32	1.39	1.84	2.86	2.37	2.28	1.36	1.17	1.13	1.08	
Max	1.18	2.12	1.78	2.00	2.73	6.30	4.20	6.57	1.59	1.26	1.21	1.09	6.57
Min	0.55	0.93	1.22	1.20	1.50	1.63	1.66	1.50	1.21	1.13	1.09	1.06	0.55

Annual Max Momentary Gage Height 6.72 M (A.D), at 12.00 Hours, on Nov 4, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.60 M (A.D)
Left Bank Elevation 8.50 M (A.D)
Right Bank Elevation 7.10 M (A.D), Drainage Area 212 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.02	1.12	1.10	2.30	2.58	36.20	8.22	1.95	1.02	0.84	0.78		
2	0.00	1.35	1.18	1.10	2.30	2.70	38.40	8.08	2.35	1.02	0.84	0.78		
3	0.00	1.12	1.08	1.02	2.35	10.32	33.95	14.92	2.15	1.00	0.90	0.78		
4	0.96	1.02	1.04	1.06	2.52	7.24	31.32	95.84	2.00	1.00	0.90	0.78		
5	0.19	0.94	1.12	1.14	17.20	6.28	23.18	58.72	2.05	0.98	0.90	0.78		
6	0.09	0.90	1.14	1.50	18.60	5.80	18.60	33.95	1.90	0.98	0.86	0.78		
7	0.05	0.90	1.12	1.14	13.30	6.68	17.20	24.86	1.90	0.98	0.86	0.78		
8	0.04	0.88	1.29	1.02	9.68	8.92	14.56	18.40	1.86	0.96	0.86	0.76		
9	0.01	0.84	1.23	1.10	8.64	9.84	20.50	13.66	1.74	0.96	0.88	0.76		
10	0.00	0.86	1.23	1.04	7.52	8.22	25.22	10.32	1.66	0.96	0.86	0.76		
11	0.00	0.84	1.16	1.14	5.20	12.40	17.00	8.50	1.66	0.96	0.90	0.76		
12	0.00	0.84	1.12	1.32	4.24	16.00	10.80	7.24	1.50	0.94	1.02	0.76		
13	0.00	0.88	1.08	1.16	3.40	50.40	10.00	6.54	1.50	0.94	0.96	0.76		
14	0.04	0.70	1.06	1.12	3.00	87.40	8.22	5.68	1.47	0.94	0.92	0.74		
15	0.12	0.46	1.16	1.14	2.82	64.65	6.68	5.20	1.47	0.94	0.90	0.74		
16	0.08	1.08	1.10	1.10	2.76	45.03	5.92	4.48	1.26	0.92	0.88	0.72		
17	0.05	1.35	1.12	1.08	2.30	27.94	4.96	3.90	1.20	0.92	0.86	0.74		
18	0.02	6.68	1.14	1.02	2.25	21.66	4.24	4.24	1.20	0.92	0.92	0.76		
19	0.00	4.12	2.35	1.00	1.90	19.40	4.36	3.90	1.20	0.92	0.84	0.76		
20	0.08	8.08	3.80	1.38	3.70	14.92	3.70	3.40	1.16	0.92	0.80	0.76		
21	0.40	4.72	1.95	2.15	4.96	14.92	3.10	3.10	1.18	0.90	0.80	0.74		
22	0.16	4.24	1.58	2.20	5.20	14.74	3.30	2.94	1.18	0.90	0.78	0.74		
23	0.11	3.30	1.35	2.40	3.10	11.60	3.00	2.76	1.14	0.90	0.80	0.74		
24	0.07	2.64	1.26	6.40	2.58	17.00	3.40	2.58	1.10	0.88	0.80	0.74		
25	0.04	2.10	1.26	2.88	10.00	14.92	3.50	2.58	1.08	0.88	0.80	0.74		
26	0.12	1.82	1.44	2.40	3.90	20.20	4.84	2.64	1.06	1.12	0.80	0.72		
27	0.12	1.74	1.44	2.05	2.88	20.10	3.50	2.46	1.06	0.88	0.80	0.72		
28	0.07	1.54	1.23	2.15	2.88	21.66	3.00	2.40	1.06	0.86	0.80	0.72		
29	0.03	1.41	1.16	2.05	3.00	23.06	2.76	2.15	1.06	0.86		0.72		
30	0.12	1.26	1.14	2.40	2.70	28.72	5.56	1.90	1.04	0.86		0.74		
31		1.16		2.94	2.52		9.06		1.02	0.86		0.76		
Total	2.97	60.79	40.45	52.70	159.70	615.30	380.03	365.56	45.16	29.08	24.08	23.32	1799.14	CMSDAY
Mean	0.10	1.96	1.35	1.70	5.15	20.51	12.26	12.19	1.46	0.94	0.86	0.75	4.93	CMS
Max	0.96	8.08	3.80	6.40	18.60	87.40	38.40	95.84	2.35	1.12	1.02	0.78	95.84	CMS
Min	0.00	0.46	1.04	1.00	1.90	2.58	2.76	1.90	1.02	0.86	0.78	0.72	0.00	CMS
Runoff	0.257	5.252	3.495	4.553	13.798	53.162	32.835	31.584	3.902	2.513	2.081	2.015	155.446	MCM

Momentary Peak 100.64 CMS, at 6.72 M (A.D), at 12.00 Hours, on Nov 4, 1996

Runoff Yield 23.25 Liters/Second/Square KM, Momentary Peak Yield 474.717 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

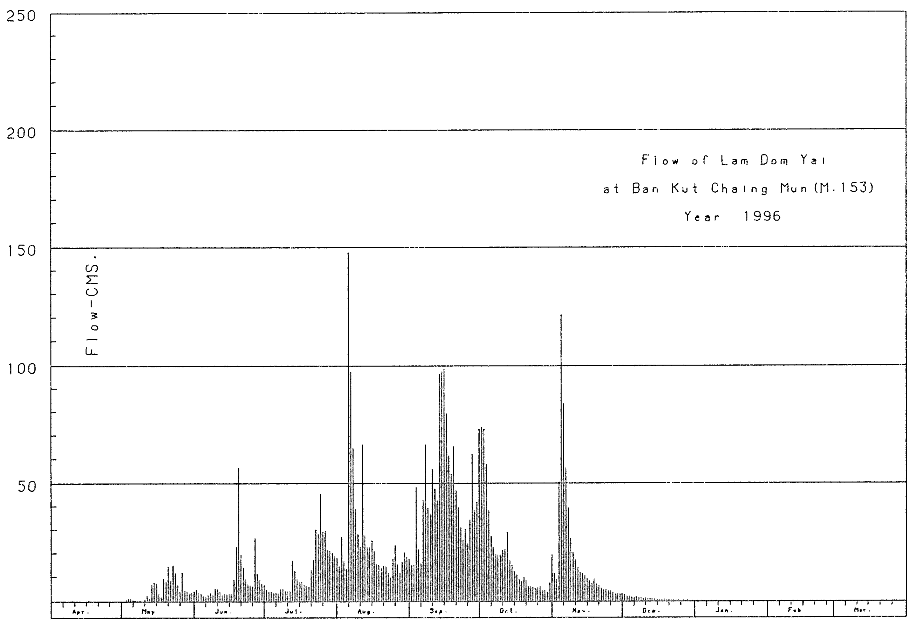
Lam Dom Yai at Ban Kut Chiang Mun, Ubon Ratchathani (M.153)

Location	Lat. 14°-26′-49″ N., Long. 105°-07′-31″ E., on right bank at the bridge on road, Ban Kut Chiang Mun, Amphoe Nam Yuen, Ubon Ratchathani.
Drainage Area	369 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 downstream at the footpath of the bridge.
Elevation	+11.183 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 73 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.82	1.51	1.49	2.13	2.16	4.47	1.96	1.31	0.93	0.80	0.75	
2	0.22	1.03	1.40	1.44	2.69	2.14	4.40	1.79	1.28	0.93	0.79	0.73	
3	0.24	1.14	1.37	1.43	2.22	3.40	3.65	3.47	1.25	0.92	0.79	0.73	
4	0.29	1.09	1.25	1.40	2.06	2.47	3.09	6.73	1.24	0.92	0.79	0.75	
5	0.22	1.03	1.23	1.41	7.36	2.18	2.70	5.07	1.20	0.91	0.80	0.75	
6	0.21	0.93	1.34	1.36	5.79	3.22	2.50	3.62	1.20	0.90	0.79	0.73	
7	0.21	0.95	1.38	1.53	3.87	4.00	2.37	3.13	1.20	0.90	0.79	0.73	
8	0.21	0.85	1.32	1.50	3.11	3.12	2.35	2.65	1.18	0.89	0.80	0.72	
9	0.21	0.83	1.53	1.46	2.73	3.05	2.36	2.41	1.15	0.89	0.79	0.72	
10	0.22	1.00	1.54	1.44	2.50	3.60	2.44	2.25	1.15	0.88	0.78	0.72	
11	0.23	1.30	1.42	1.46	4.01	3.38	2.46	2.10	1.14	0.87	0.79	0.73	
12	0.25	1.13	1.32	2.24	2.70	3.22	2.76	1.96	1.16	0.87	0.79	0.71	
13	0.23	1.65	1.34	2.02	2.51	5.74	2.25	1.96	1.10	0.86	0.79	0.70	
14	0.26	1.70	1.35	1.80	2.50	5.77	2.13	1.89	1.09	0.86	0.79	0.74	
15	0.27	1.70	1.38	1.75	2.63	5.83	2.00	1.82	1.09	0.85	0.80	0.71	
16	0.27	1.37	1.34	1.73	2.42	4.83	1.90	1.75	1.07	0.85	0.79	0.72	
17	0.38	1.23	1.80	1.64	2.17	3.75	1.80	1.70	1.06	0.84	0.78	0.71	
18	0.33	1.81	2.52	1.59	2.14	3.55	1.73	1.80	1.05	0.85	0.78	0.72	
19	0.28	1.75	3.63	1.59	2.08	3.93	1.86	1.67	1.05	0.84	0.77	0.72	
20	0.34	2.11	2.36	2.04	2.12	3.36	1.76	1.60	1.03	0.83	0.77	0.72	
21	0.36	1.76	2.10	2.25	2.12	3.14	1.61	1.56	1.02	0.83	0.77	0.74	
22	0.31	2.15	1.79	2.79	1.96	2.84	1.60	1.50	1.01	0.83	0.76	0.74	
23	0.28	1.97	1.67	2.74	1.84	2.62	1.55	1.49	1.00	0.83	0.76	0.70	
24	0.26	1.62	1.62	3.32	2.28	2.80	1.55	1.47	0.99	0.83	0.81	0.70	
25	0.26	1.45	1.59	2.76	2.53	2.57	1.55	1.45	0.98	0.82	0.77	0.73	
26	0.25	1.97	2.67	2.78	2.15	2.95	1.59	1.42	0.97	0.81	0.75	0.69	
27	0.25	1.49	1.95	2.46	1.96	3.77	1.49	1.38	0.96	0.81	0.75	0.69	
28	0.24	1.44	1.77	2.43	2.20	3.10	1.46	1.35	0.95	0.81	0.76	0.71	
29	0.25	1.40	1.69	2.40	2.41	3.20	1.43	1.37	0.94	0.80		0.70	
30	0.26	1.40	1.62	2.32	2.31	4.40	1.71	1.33	0.94	0.80		0.69	
31		1.44		2.31	2.28		2.35		0.93	0.80		0.70	
Mean	0.26	1.40	1.69	1.96	2.70	3.47	2.22	2.19	1.09	0.86	0.78	0.72	
Max	0.38	2.15	3.63	3.32	7.36	5.83	4.47	6.73	1.31	0.93	0.81	0.75	7.36
Min	0.20	0.82	1.23	1.36	1.84	2.14	1.43	1.33	0.93	0.80	0.75	0.69	0.20

Annual Max Momentary Gage Height	7.52 M (A.D), at 15.00 Hours, on Aug 5, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed 0.65 M (A.D)
Left Bank Elevation	9.74 M (A.D)
Right Bank Elevation	9.63 M (A.D), Drainage Area 369 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.04	5.14	4.86	15.20	15.80	74.12	12.08	2.70	0.32	0.00	0.00	
2	0.00	0.72	3.60	4.16	27.74	15.40	73.00	9.24	2.40	0.32	0.00	0.00	
3	0.00	1.24	3.30	4.02	17.00	48.70	58.00	51.01	2.10	0.28	0.00	0.00	
4	0.00	0.96	2.10	3.60	13.88	22.34	38.70	121.42	2.00	0.28	0.00	0.00	
5	0.00	0.72	1.90	3.74	148.24	16.20	28.00	84.26	1.60	0.24	0.00	0.00	
6	0.00	0.32	3.00	3.20	97.80	42.84	23.00	56.80	1.60	0.20	0.00	0.00	
7	0.00	0.40	3.40	5.42	64.98	66.80	20.14	39.96	1.60	0.20	0.00	0.00	
8	0.00	0.10	2.80	5.00	39.32	39.64	19.70	26.70	1.48	0.18	0.00	0.00	
9	0.00	0.06	5.42	4.44	28.78	37.50	19.92	21.02	1.30	0.18	0.00	0.00	
10	0.00	0.60	5.56	4.16	23.00	56.00	21.68	17.60	1.30	0.16	0.00	0.00	
11	0.00	2.60	3.88	4.44	66.95	48.04	22.12	14.60	1.24	0.14	0.00	0.00	
12	0.00	1.18	2.80	17.40	28.00	42.84	29.56	12.08	1.36	0.14	0.00	0.00	
13	0.00	7.10	3.00	13.16	23.24	96.80	17.60	12.08	1.00	0.12	0.00	0.00	
14	0.00	7.80	3.10	9.40	23.00	97.40	15.20	10.84	0.96	0.12	0.00	0.00	
15	0.00	7.80	3.40	8.60	26.18	98.60	12.80	9.72	0.96	0.10	0.00	0.00	
16	0.00	3.30	3.00	8.28	21.24	80.01	11.00	8.60	0.88	0.10	0.00	0.00	
17	0.00	1.90	9.40	6.96	16.00	62.00	9.40	7.80	0.84	0.08	0.00	0.00	
18	0.00	9.56	23.48	6.26	15.40	54.00	8.28	9.40	0.80	0.10	0.00	0.00	
19	0.00	8.60	57.20	6.26	14.24	65.82	10.36	7.38	0.80	0.08	0.00	0.00	
20	0.00	14.80	19.92	13.52	15.00	47.38	8.76	6.40	0.72	0.06	0.00	0.00	
21	0.00	8.76	14.60	17.60	15.00	40.28	6.54	5.84	0.68	0.06	0.00	0.00	
22	0.00	15.60	9.24	30.34	12.08	31.64	6.40	5.00	0.64	0.06	0.00	0.00	
23	0.00	12.26	7.38	29.04	10.04	25.92	5.70	4.86	0.60	0.06	0.00	0.00	
24	0.00	6.68	6.68	46.06	18.20	30.60	5.70	4.58	0.56	0.06	0.02	0.00	
25	0.00	4.30	6.26	29.56	23.72	24.68	5.70	4.30	0.52	0.04	0.00	0.00	
26	0.00	12.26	27.22	30.08	15.60	34.60	6.26	3.88	0.48	0.02	0.00	0.00	
27	0.00	4.86	11.90	22.12	12.08	62.80	4.86	3.40	0.44	0.02	0.00	0.00	
28	0.00	4.16	8.92	21.46	16.60	39.00	4.44	3.10	0.40	0.02	0.00	0.00	
29	0.00	3.60	7.66	20.80	21.02	42.20	4.02	3.30	0.36	0.00		0.00	
30	0.00	3.60	6.68	19.04	18.82	73.00	7.96	2.90	0.36	0.00		0.00	
31		4.16		18.82	18.20		19.70		0.32	0.00		0.00	
Total	0.00	150.04	271.94	421.80	906.55	1458.83	598.62	580.15	33.00	3.74	0.02	0.00	4424.69 CMSDAY
Mean	0.00	4.84	9.06	13.61	29.24	48.63	19.31	19.34	1.06	0.12	0.00	0.00	12.12 CMS
Max	0.00	15.60	57.20	46.06	148.24	98.60	74.12	121.42	2.70	0.32	0.02	0.00	148.24 CMS
Min	0.00	0.04	1.90	3.20	10.04	15.40	4.02	2.90	0.32	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	12.963	23.496	36.444	78.326	126.043	51.721	50.125	2.851	0.323	0.002	0.000	382.293 MCM

Momentary Peak 158.68 CMS, at 7.52 M (A.D), at 15.00 Hours, on Aug 5, 1996
Runoff Yield 32.85 Liters/Second/Square KM, Momentary Peak Yield 430.027 Liters/Second/Square KM

WATER YEAR 1996

MUN RIVER BASIN

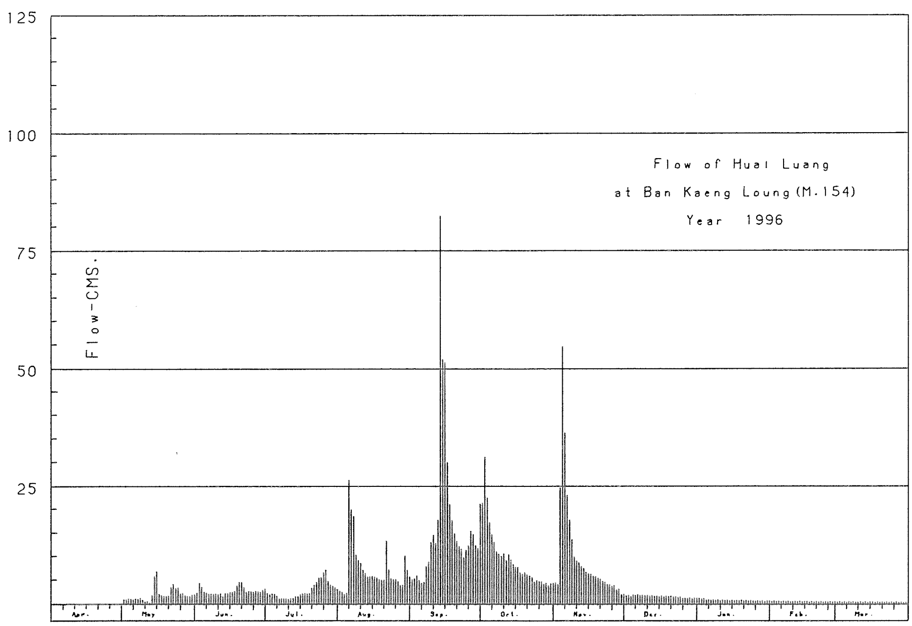
Huai Luang at Ban Kaeng Rueng, Ubon Ratchathani (M.154)

Location	Lat. 14°-27′-06″ N., Long. 105°-11′-25″ E., on left bank at the bridge on road, Ban Kaeng Rueng, Amphoe Na Chaluai, Ubon Ratchathani.
Drainage Area	209 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 footpath of the bridge.
Elevation	+10.124 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +6.61 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 82 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	1.11	1.49	1.48	1.56	1.96	3.74	1.86	1.40	1.23	1.05	1.00	
2	0.38	1.15	1.86	1.44	1.54	2.00	4.52	1.82	1.39	1.22	1.05	1.00	
3	0.39	1.17	1.70	1.43	1.42	2.08	3.85	4.03	1.36	1.22	1.05	0.99	
4	0.40	1.19	1.55	1.46	1.51	1.95	3.37	5.78	1.40	1.14	1.04	0.99	
5	0.41	1.15	1.49	1.33	4.16	1.86	3.11	4.89	1.42	1.14	1.04	0.99	
6	0.41	1.17	1.46	1.22	3.61	1.87	2.94	3.89	1.41	1.13	1.04	0.99	
7	0.40	1.19	1.44	1.20	3.49	2.36	2.74	3.42	1.42	1.13	1.04	0.99	
8	0.39	1.22	1.45	1.22	2.66	2.47	2.67	2.99	1.40	1.13	1.04	0.98	
9	0.38	1.12	1.44	1.19	2.51	2.94	2.63	2.62	1.40	1.13	1.03	0.98	
10	0.38	0.91	1.44	1.20	2.43	3.09	2.68	2.50	1.39	1.12	1.03	0.98	
11	0.39	0.97	1.45	1.21	2.26	2.90	2.52	2.47	1.38	1.12	1.03	0.98	
12	0.39	0.88	1.32	1.24	2.15	3.41	2.67	2.35	1.37	1.12	1.03	0.98	
13	0.39	1.38	1.47	1.31	2.06	6.50	2.52	2.32	1.36	1.11	1.03	0.98	
14	0.40	2.07	1.49	1.34	2.05	5.68	2.42	2.19	1.35	1.11	1.02	0.97	
15	0.41	2.20	1.51	1.41	2.07	5.65	2.33	2.16	1.34	1.11	1.02	0.97	
16	0.40	1.44	1.54	1.49	2.04	4.45	2.33	2.13	1.36	1.11	1.02	0.97	
17	0.43	1.39	1.56	1.48	2.03	3.72	2.18	2.09	1.35	1.10	1.02	0.97	
18	0.46	1.33	1.77	1.46	1.96	3.40	2.12	2.06	1.35	1.10	1.02	0.97	
19	0.48	1.34	1.87	1.47	1.96	3.13	2.19	2.03	1.35	1.10	1.01	0.96	
20	0.51	1.34	1.89	1.69	1.95	2.96	2.11	1.98	1.34	1.09	1.01	0.96	
21	0.54	1.71	1.69	1.77	2.97	2.86	2.07	1.93	1.32	1.09	1.01	0.96	
22	0.54	1.81	1.54	1.89	2.27	2.79	2.04	1.89	1.32	1.08	1.01	0.96	
23	0.45	1.68	1.55	2.01	1.99	2.60	1.90	1.82	1.31	1.08	1.01	0.95	
24	0.45	1.68	1.56	2.04	1.98	2.76	1.93	1.80	1.30	1.08	1.01	0.95	
25	0.35	1.48	1.55	2.19	1.96	2.87	1.92	1.76	1.26	1.07	1.01	0.95	
26	0.36	1.48	1.56	2.25	1.90	3.17	1.90	1.77	1.23	1.07	1.00	0.95	
27	0.41	1.39	1.56	1.92	1.78	3.10	1.83	1.63	1.26	1.06	1.00	0.94	
28	0.46	1.32	1.52	1.78	1.77	2.88	1.85	1.64	1.25	1.06	1.00	0.93	
29	0.50	1.34	1.61	1.76	2.64	2.80	1.77	1.44	1.23	1.05		0.92	
30	0.55	1.39	1.64	1.68	2.24	3.73	1.83	1.44	1.24	1.05		0.91	
31		1.43		1.65	2.06		1.86		1.26	1.05		0.91	
Mean	0.43	1.37	1.57	1.56	2.23	3.13	2.47	2.42	1.34	1.11	1.02	0.97	
Max	0.55	2.20	1.89	2.25	4.16	6.50	4.52	5.78	1.42	1.23	1.05	1.00	6.50
Min	0.35	0.88	1.32	1.19	1.42	1.86	1.77	1.44	1.23	1.05	1.00	0.91	0.35

Annual Max Momentary Gage Height 6.80 M (A.D), at 15.00 Hours, on Sep 13, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.72 M (A.D)
Left Bank Elevation 7.10 M (A.D)
Right Bank Elevation 6.60 M (A.D), Drainage Area 209 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.93	2.36	2.32	2.76	5.22	21.54	4.56	2.00	1.32	0.75	0.60	
2	0.00	1.05	4.56	2.16	2.64	5.50	31.28	4.32	1.96	1.28	0.75	0.60	
3	0.00	1.11	3.60	2.12	2.08	6.06	22.75	24.76	1.84	1.28	0.75	0.58	
4	0.00	1.17	2.70	2.24	2.46	5.15	17.50	54.92	2.00	1.02	0.72	0.58	
5	0.00	1.05	2.36	1.72	26.32	4.56	14.90	36.55	2.08	1.02	0.72	0.58	
6	0.00	1.11	2.24	1.28	20.11	4.62	13.20	23.19	2.04	0.99	0.72	0.58	
7	0.00	1.17	2.16	1.20	18.79	8.08	11.26	18.02	2.08	0.99	0.72	0.58	
8	0.00	1.28	2.20	1.28	10.54	8.96	10.63	13.70	2.00	0.99	0.72	0.56	
9	0.00	0.96	2.16	1.17	9.28	13.20	10.27	10.18	2.00	0.99	0.69	0.56	
10	0.00	0.42	2.16	1.20	8.64	14.70	10.72	9.20	1.96	0.96	0.69	0.56	
11	0.00	0.54	2.20	1.24	7.32	12.80	9.36	8.96	1.92	0.96	0.69	0.56	
12	0.00	0.36	1.68	1.36	6.55	17.91	10.63	8.00	1.88	0.96	0.69	0.56	
13	0.00	1.92	2.28	1.64	5.92	82.60	9.36	7.76	1.84	0.93	0.69	0.56	
14	0.00	5.99	2.36	1.76	5.85	52.12	8.56	6.83	1.80	0.93	0.66	0.54	
15	0.00	6.90	2.46	2.04	5.99	51.40	7.84	6.62	1.76	0.93	0.66	0.54	
16	0.00	2.16	2.64	2.36	5.78	30.30	7.84	6.41	1.84	0.93	0.66	0.54	
17	0.00	1.96	2.76	2.32	5.71	21.32	6.76	6.13	1.80	0.90	0.66	0.54	
18	0.00	1.72	4.02	2.24	5.22	17.80	6.34	5.92	1.80	0.90	0.66	0.54	
19	0.00	1.76	4.62	2.28	5.22	15.10	6.83	5.71	1.80	0.90	0.63	0.52	
20	0.00	1.76	4.74	3.54	5.15	13.40	6.27	5.36	1.76	0.87	0.63	0.52	
21	0.00	3.66	3.54	4.02	13.50	12.40	5.99	5.01	1.68	0.87	0.63	0.52	
22	0.00	4.26	2.64	4.74	7.39	11.71	5.78	4.74	1.68	0.84	0.63	0.52	
23	0.00	3.48	2.70	5.57	5.43	10.00	4.80	4.32	1.64	0.84	0.63	0.50	
24	0.00	3.48	2.76	5.78	5.36	11.44	5.01	4.20	1.60	0.84	0.63	0.50	
25	0.00	2.32	2.70	6.83	5.22	12.50	4.94	3.96	1.44	0.81	0.63	0.50	
26	0.00	2.32	2.76	7.25	4.80	15.50	4.80	4.02	1.32	0.81	0.60	0.50	
27	0.00	1.96	2.76	4.94	4.08	14.80	4.38	3.18	1.44	0.78	0.60	0.48	
28	0.00	1.68	2.52	4.08	4.02	12.60	4.50	3.24	1.40	0.78	0.60	0.46	
29	0.00	1.76	3.06	3.96	10.36	11.80	4.02	2.16	1.32	0.75		0.44	
30	0.00	1.96	3.24	3.48	7.18	21.43	4.38	2.16	1.36	0.75		0.42	
31		2.12		3.30	5.92		4.56		1.44	0.75		0.42	
Total	0.00	64.32	84.94	91.42	235.59	524.98	297.00	304.09	54.48	28.87	18.81	16.46	1720.96 CMSDAY
Mean	0.00	2.07	2.83	2.95	7.60	17.50	9.58	10.14	1.76	0.93	0.67	0.53	4.71 CMS
Max	0.00	6.90	4.74	7.25	26.32	82.60	31.28	54.92	2.08	1.32	0.75	0.60	82.60 CMS
Min	0.00	0.36	1.68	1.17	2.08	4.56	4.02	2.16	1.32	0.75	0.60	0.42	0.00 CMS
Runoff	0.000	5.557	7.339	7.899	20.355	45.358	25.661	26.273	4.707	2.494	1.625	1.422	148.691 MCM

Momentary Peak 101.00 CMS, at 6.80 M (A.D), at 15.00 Hours, on Sep 13, 1996

Runoff Yield 22.56 Liters/Second/Square KM, Momentary Peak Yield 483.254 Liters/Second/Square KM

WATER YEAR 1996

TONLE SAP BASIN

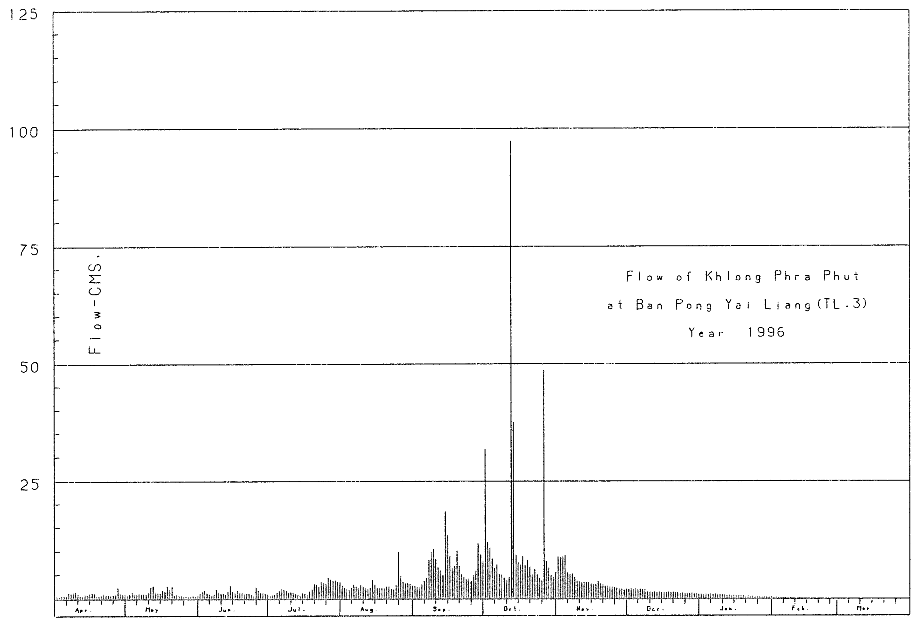
Khlong Phra Phut at Ban Pong Yai Liang, Chanthaburi (TL.3)

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	+190.67 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 6 meters from the top staff gage.
Elevation	+195.973 m.(M.S.L.)
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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir during Jan.14-Mar.31,97 discharge estimated by recession equation. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.02	191.04	191.07	191.04	191.22	191.22	192.25	191.56	191.16	191.06	191.17	191.15	
2	191.01	191.06	191.12	191.04	191.19	191.19	191.70	191.55	191.16	191.06	191.17	191.15	
3	191.03	191.09	191.14	191.06	191.16	191.19	191.64	191.56	191.16	191.06	191.17	191.18	
4	191.03	191.07	191.09	191.09	191.15	191.24	191.54	191.57	191.16	191.06	191.20	191.22	
5	191.04	191.06	191.06	191.13	191.18	191.31	191.45	191.41	191.15	191.06	191.19	191.22	
6	191.08	191.07	191.05	191.16	191.25	191.34	191.48	191.39	191.15	191.06	191.19	191.22	
7	191.08	191.07	191.06	191.15	191.20	191.53	191.39	191.40	191.15	191.06	191.19	191.20	
8	191.09	191.06	191.16	191.13	191.19	191.60	191.38	191.35	191.14	191.06	191.19	191.20	
9	191.11	191.06	191.10	191.10	191.23	191.63	191.35	191.31	191.11	191.05	191.20	191.14	
10	191.06	191.09	191.08	191.11	191.21	191.54	191.32	191.30	191.10	191.05	191.20	191.14	
11	191.03	191.18	191.07	191.09	191.18	191.46	191.35	191.28	191.10	191.04	191.21	191.14	
12	191.03	191.22	191.06	191.07	191.16	191.43	193.24	191.28	191.10	191.04	191.22	191.14	
13	191.05	191.11	191.11	191.05	191.18	191.38	192.38	191.29	191.10	191.04	191.25	191.16	
14	191.05	191.08	191.22	191.04	191.32	191.92	191.58	191.28	191.10	191.04	191.28	191.16	
15	191.07	191.08	191.11	191.08	191.24	191.75	191.50	191.26	191.10	191.06	191.26	191.16	
16	191.08	191.13	191.09	191.07	191.18	191.56	191.48	191.24	191.10	191.06	191.26	191.16	
17	191.08	191.12	191.13	191.05	191.18	191.45	191.56	191.25	191.10	191.06	191.26	191.16	
18	191.03	191.22	191.10	191.11	191.18	191.47	191.48	191.30	191.10	191.07	191.26	191.16	
19	191.03	191.14	191.09	191.16	191.18	191.62	191.53	191.26	191.10	191.08	191.18	191.16	
20	191.04	191.21	191.07	191.25	191.21	191.47	191.46	191.24	191.10	191.08	191.18	191.16	
21	191.07	191.05	191.07	191.24	191.20	191.40	191.38	191.22	191.10	191.08	191.17	191.15	
22	191.05	191.06	191.08	191.20	191.16	191.35	191.44	191.21	191.10	191.08	191.14	191.15	
23	191.04	191.05	191.05	191.30	191.15	191.33	191.39	191.20	191.08	191.08	191.14	191.15	
24	191.04	191.03	191.03	191.27	191.24	191.33	191.34	191.19	191.08	191.08	191.14	191.15	
25	191.04	191.03	191.20	191.26	191.61	191.31	191.31	191.19	191.08	191.08	191.14	191.16	
26	191.05	191.02	191.13	191.35	191.37	191.38	192.58	191.17	191.08	191.08	191.14	191.16	
27	191.19	191.02	191.09	191.32	191.30	191.42	191.52	191.16	191.08	191.10	191.14	191.16	
28	191.07	191.02	191.08	191.31	191.27	191.68	191.45	191.15	191.08	191.20	191.15	191.16	
29	191.06	191.04	191.08	191.31	191.27	191.58	191.38	191.14	191.07	191.16		191.18	
30	191.05	191.02	191.06	191.30	191.25	191.51	191.35	191.15	191.07	191.17		191.18	
31		191.04		191.28	191.22		191.41		191.06	191.17		191.18	
Mean	191.06	191.08	191.10	191.17	191.23	191.45	191.60	191.30	191.11	191.08	191.19	191.17	
Max	191.19	191.22	191.22	191.35	191.61	191.92	193.24	191.57	191.16	191.20	191.28	191.22	193.24
Min	191.01	191.02	191.03	191.04	191.15	191.19	191.31	191.14	191.06	191.04	191.14	191.14	191.01

Annual Max Momentary Gage Height 193.57 M (MSL), at 6.00 Hours, on Oct 12, 1996
Zero Gage at Bottom Elevation 190.67 M (MSL), River Bed 190.74 M (MSL)
Left Bank Elevation 196.58 M (MSL)
Right Bank Elevation 196.57 M (MSL), Drainage Area 79 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.627	0.853	1.193	0.853	2.893	2.893	32.000	9.073	2.213	1.080	0.440	0.160	
2	0.513	1.080	1.760	0.853	2.553	2.553	12.200	8.850	2.213	1.080	0.430	0.150	
3	0.740	1.420	1.987	1.080	2.213	2.553	10.860	9.073	2.213	1.080	0.410	0.150	
4	0.740	1.193	1.420	1.420	2.100	3.120	8.627	9.297	2.213	1.080	0.390	0.140	
5	0.853	1.080	1.080	1.873	2.440	3.970	6.617	5.724	2.100	1.080	0.380	0.140	
6	1.307	1.193	0.967	2.213	3.233	4.480	7.287	5.330	2.100	1.080	0.370	0.130	
7	1.307	1.193	1.080	2.100	2.667	8.403	5.330	5.500	2.100	1.080	0.350	0.130	
8	1.420	1.080	2.213	1.873	2.553	9.967	5.160	4.650	1.987	1.080	0.340	0.120	
9	1.647	1.080	1.533	1.533	3.007	10.637	4.650	3.970	1.647	0.967	0.330	0.120	
10	1.080	1.420	1.307	1.647	2.780	8.627	4.140	3.800	1.533	0.967	0.320	0.110	
11	0.740	2.440	1.193	1.420	2.440	6.840	4.650	3.573	1.533	0.853	0.310	0.110	
12	0.740	2.893	1.080	1.193	2.213	6.170	97.500	3.573	1.533	0.853	0.290	0.110	
13	0.967	1.647	1.647	0.967	2.440	5.160	37.634	3.687	1.533	0.853	0.280	0.100	
14	0.967	1.307	2.893	0.853	4.140	18.900	9.520	3.573	1.533	0.853	0.270	0.100	
15	1.193	1.307	1.647	1.307	3.120	13.700	7.733	3.347	1.533	0.820	0.260	0.090	
16	1.307	1.873	1.420	1.193	2.440	9.073	7.287	3.120	1.533	0.790	0.250	0.090	
17	1.307	1.760	1.873	0.967	2.440	6.617	9.073	3.233	1.533	0.760	0.250	0.090	
18	0.740	2.893	1.533	1.647	2.440	7.063	7.287	3.800	1.533	0.740	0.240	0.080	
19	0.740	1.987	1.420	2.213	2.440	10.413	8.403	3.347	1.533	0.710	0.230	0.080	
20	0.853	2.780	1.193	3.233	2.780	7.063	6.840	3.120	1.533	0.680	0.220	0.080	
21	1.193	0.967	1.193	3.120	2.667	5.500	5.160	2.893	1.533	0.660	0.210	0.080	
22	0.967	1.080	1.307	2.667	2.213	4.650	6.394	2.780	1.533	0.640	0.200	0.070	
23	0.853	0.967	0.967	3.800	2.100	4.310	5.330	2.667	1.307	0.610	0.200	0.070	
24	0.853	0.740	0.740	3.460	3.120	4.310	4.480	2.553	1.307	0.590	0.190	0.070	
25	0.853	0.740	2.667	3.347	10.190	3.970	3.970	2.553	1.307	0.570	0.180	0.070	
26	0.967	0.627	1.873	4.650	4.990	5.160	48.700	2.327	1.307	0.550	0.180	0.060	
27	2.553	0.627	1.420	4.140	3.800	5.947	8.180	2.213	1.307	0.530	0.170	0.060	
28	1.193	0.627	1.307	3.970	3.460	11.753	6.617	2.100	1.307	0.510	0.160	0.060	
29	1.080	0.853	1.307	3.970	3.460	9.520	5.160	1.987	1.193	0.490		0.060	
30	0.967	0.627	1.080	3.800	3.233	7.957	4.650	2.100	1.193	0.470		0.050	
31		0.853		3.573	2.893		5.724		1.080	0.460		0.050	
Total	31.267	41.187	44.300	70.935	95.458	211.279	397.163	123.813	50.023	24.566	7.850	2.980	1100.821 CMSDAY
Mean	1.042	1.329	1.477	2.288	3.079	7.043	12.812	4.127	1.614	0.792	0.280	0.096	3.016 CMS
Max	2.553	2.893	2.893	4.650	10.190	18.900	97.500	9.297	2.213	1.080	0.440	0.160	97.500 CMS
Min	0.513	0.627	0.740	0.853	2.100	2.553	3.970	1.987	1.080	0.460	0.160	0.050	0.050 CMS
Runoff	2.701	3.559	3.828	6.129	8.248	18.255	34.315	10.697	4.322	2.123	0.678	0.257	95.111 MCM

Momentary Peak 128.15 CMS, at 193.57 M (MSL), at 6.00 Hours, on Oct 12, 1996

Runoff Yield 38.18 Liters/Second/Square KM, Momentary Peak Yield 1622.152 Liters/Second/Square KM

WATER YEAR 1996

TONLE SAP BASIN

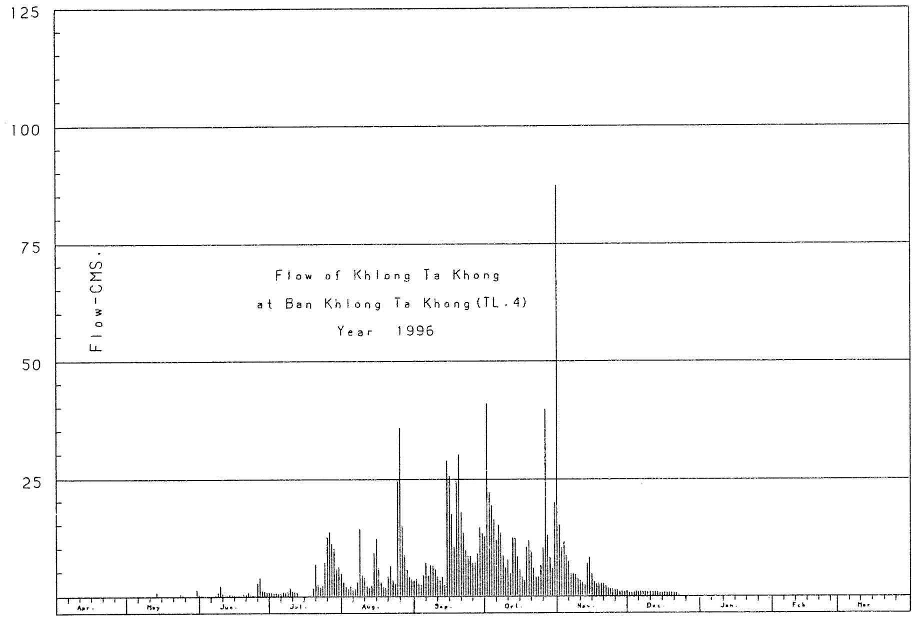
Khlong Ta Khong at Ban Khlong Ta Khong, Chanthaburi (TL.4)

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 Khlong Ta Khong, Amphoe Pong Nam Ron, Chanthaburi.
Drainage Area	96 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+176.80 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from the top staff gage.
Elevation	+186.762 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	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. Flow effected by the local weir during Dec.27,96-Mar.31,97 discharge estimated by recession equation. Stage-discharge relation defined by 8 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.15	176.99	177.53	177.72	178.16	178.24	180.27	179.13	177.76	177.72	177.78	177.50	
2	177.14	177.00	177.51	177.71	178.00	178.12	179.49	178.82	177.72	177.72	177.72	177.54	
3	177.13	177.14	177.51	177.70	177.92	178.07	179.35	178.91	177.77	177.72	177.58	177.58	
4	177.12	177.14	177.48	177.69	178.00	178.34	179.19	178.72	177.80	177.72	177.39	177.59	
5	177.10	177.13	177.46	177.70	177.86	178.60	178.93	178.63	177.80	177.72	177.25	177.74	
6	177.06	177.13	177.45	177.74	177.89	178.34	179.13	178.38	177.80	177.72	177.23	177.72	
7	177.05	177.14	177.55	177.72	178.16	178.55	179.02	178.40	177.80	177.80	177.24	177.45	
8	177.05	177.14	177.75	177.77	179.08	178.54	178.73	178.36	177.78	177.80	177.49	177.17	
9	177.06	177.13	178.03	177.95	178.36	178.48	178.50	178.26	177.78	177.80	177.86	177.17	
10	177.06	177.13	177.64	177.79	178.27	178.31	178.65	178.20	177.78	177.80	177.93	177.17	
11	177.06	177.15	177.60	177.76	178.03	178.20	178.40	178.14	177.78	177.80	177.91	177.17	
12	177.04	177.31	177.57	177.74	177.93	178.31	178.96	178.09	177.78	177.80	177.90	177.17	
13	177.02	177.75	177.60	177.48	178.05	178.07	178.95	178.58	177.78	177.80	177.86	177.34	
14	177.02	177.46	177.61	177.46	178.75	179.79	178.71	178.70	177.71	177.80	177.72	177.47	
15	177.02	177.36	177.56	177.45	178.95	179.66	178.46	178.39	177.73	177.80	177.60	177.41	
16	176.99	177.34	177.53	177.44	178.50	179.25	178.30	178.17	177.74	177.80	177.58	177.34	
17	176.96	177.40	177.52	177.47	178.16	178.84	178.21	178.11	177.74	177.80	177.61	177.29	
18	176.96	177.40	177.55	177.60	177.99	179.61	178.83	178.12	177.74	177.80	177.53	177.24	
19	176.92	177.39	177.63	177.94	177.97	179.85	178.93	178.12	177.74	177.80	177.51	177.23	
20	176.89	177.34	177.65	178.57	178.31	179.28	178.78	178.11	177.71	177.80	177.50	177.23	
21	176.88	177.35	177.75	178.07	178.54	179.02	178.49	178.05	177.74	177.80	177.56	177.23	
22	176.87	177.45	177.59	177.96	178.20	178.79	178.30	177.94	177.65	177.80	177.59	177.19	
23	176.86	177.63	177.52	178.05	178.12	178.71	178.29	177.93	177.52	177.80	177.58	177.15	
24	176.84	177.52	177.50	178.59	179.61	178.71	178.55	177.90	177.52	177.80	177.55	177.15	
25	176.85	177.51	178.12	178.96	180.08	178.59	178.82	177.88	177.51	177.80	177.51	177.16	
26	176.85	177.49	178.29	179.04	179.12	178.59	180.23	177.86	177.50	177.80	177.50	177.16	
27	177.01	177.48	177.84	178.88	178.73	178.75	178.99	177.82	177.47	177.80	177.50	177.17	
28	177.03	177.48	177.78	178.81	178.46	179.10	178.70	177.80	177.58	177.80	177.50	177.17	
29	177.03	177.50	177.75	178.48	178.31	179.01	178.48	177.80	177.72	177.80		177.17	
30	177.03	177.88	177.73	178.51	178.22	178.98	179.38	177.82	177.72	177.80		177.17	
31		177.58		178.39	178.21		181.70		177.72	177.80		177.17	
Mean	177.00	177.35	177.65	178.00	178.39	178.76	178.96	178.24	177.71	177.78	177.59	177.30	
Max	177.15	177.88	178.29	179.04	180.08	179.85	181.70	179.13	177.80	177.80	177.93	177.74	181.70
Min	176.84	176.99	177.45	177.44	177.86	178.07	178.21	177.80	177.47	177.72	177.23	177.15	176.84

Annual Max Momentary Gage Height 182.71 M (MSL), at 7.00 Hours, on Oct 31, 1996
Zero Gage at Bottom Elevation 176.80 M (MSL), River Bed 175.6C M (MSL)
Left Bank Elevation 186.17 M (MSL)
Right Bank Elevation 185.87 M (MSL), Drainage Area 96 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.260	0.820	3.150	3.750	41.037	15.310	0.960	0.110	0.020	0.010	
2	0.000	0.000	0.220	0.785	2.100	2.850	22.155	10.320	0.820	0.100	0.020	0.010	
3	0.000	0.000	0.220	0.750	1.700	2.520	19.425	11.760	0.995	0.100	0.020	0.010	
4	0.000	0.000	0.160	0.715	2.100	4.520	16.330	8.720	1.100	0.100	0.020	0.010	
5	0.000	0.000	0.120	0.750	1.400	7.267	12.080	7.607	1.100	0.090	0.020	0.010	
6	0.000	0.000	0.100	0.890	1.550	4.520	15.310	4.840	1.100	0.090	0.020	0.010	
7	0.000	0.000	0.300	0.820	3.150	6.700	13.520	5.000	1.100	0.080	0.020	0.000	
8	0.000	0.000	0.925	0.995	14.480	6.587	8.880	4.680	1.030	0.080	0.020	0.000	
9	0.000	0.000	2.280	1.850	4.680	5.907	6.133	3.900	1.030	0.070	0.020	0.000	
10	0.000	0.000	0.540	1.065	3.975	4.280	7.833	3.450	1.030	0.070	0.020	0.000	
11	0.000	0.000	0.400	0.960	2.280	3.450	5.000	3.000	1.030	0.070	0.020	0.000	
12	0.000	0.000	0.340	0.890	1.750	4.280	12.560	2.640	1.030	0.060	0.010	0.000	
13	0.000	0.925	0.400	0.160	2.400	2.520	12.400	7.040	1.030	0.060	0.010	0.000	
14	0.000	0.120	0.435	0.120	9.200	28.860	8.560	8.400	0.785	0.060	0.010	0.000	
15	0.000	0.000	0.320	0.100	12.400	25.740	5.680	4.920	0.855	0.060	0.010	0.000	
16	0.000	0.000	0.260	0.080	6.133	17.475	4.200	3.225	0.890	0.050	0.010	0.000	
17	0.000	0.000	0.240	0.140	3.150	10.640	3.525	2.775	0.890	0.050	0.010	0.000	
18	0.000	0.000	0.300	0.400	2.050	24.540	10.480	2.850	0.890	0.050	0.010	0.000	
19	0.000	0.000	0.505	1.800	1.950	30.300	12.080	2.850	0.890	0.050	0.010	0.000	
20	0.000	0.000	0.575	6.927	4.280	18.060	9.680	2.775	0.785	0.040	0.010	0.000	
21	0.000	0.000	0.925	2.520	6.587	13.520	6.020	2.400	0.890	0.040	0.010	0.000	
22	0.000	0.100	0.380	1.900	3.450	9.840	4.200	1.800	0.575	0.040	0.010	0.000	
23	0.000	0.505	0.240	2.400	2.850	8.560	4.125	1.750	0.240	0.040	0.010	0.000	
24	0.000	0.240	0.200	7.153	24.540	8.560	6.700	1.600	0.240	0.040	0.010	0.000	
25	0.000	0.220	2.850	12.560	35.980	7.153	10.320	1.500	0.220	0.030	0.010	0.000	
26	0.000	0.180	4.125	13.840	15.140	7.153	39.930	1.400	0.200	0.030	0.010	0.000	
27	0.000	0.160	1.300	11.280	8.880	9.200	13.040	1.200	0.140	0.030	0.010	0.000	
28	0.000	0.160	1.030	10.160	5.680	14.800	8.400	1.100	0.130	0.030	0.010	0.000	
29	0.000	0.200	0.925	5.907	4.280	13.360	5.907	1.100	0.130	0.030		0.000	
30	0.000	1.500	0.855	6.247	3.600	12.880	20.010	1.200	0.120	0.030		0.000	
31		0.360		4.920	3.525		87.333		0.120	0.030		0.000	
Total	0.000	4.670	21.730	99.904	198.390	319.792	452.853	131.112	22.345	1.810	0.390	0.060	1253.056 CMSDAY
Mean	0.000	0.151	0.724	3.223	6.400	10.660	14.608	4.370	0.721	0.058	0.014	0.002	3.433 CMS
Max	0.000	1.500	4.125	13.840	35.980	30.300	87.333	15.310	1.100	0.110	0.020	0.010	87.333 CMS
Min	0.000	0.000	0.100	0.080	1.400	2.520	3.525	1.100	0.120	0.030	0.010	0.000	0.000 CMS
Runoff	0.000	0.403	1.877	8.632	17.141	27.630	39.127	11.328	1.931	0.156	0.034	0.005	108.264 MCM

Momentary Peak 130.50 CMS, at 182.71 M (MSL), at 7.00 Hours, on Oct 31, 1996

Runoff Yield 35.76 Liters/Second/Square KM, Momentary Peak Yield 1359.375 Liters/Second/Square KM

WATER YEAR 1996

TONLE SAP BASIN

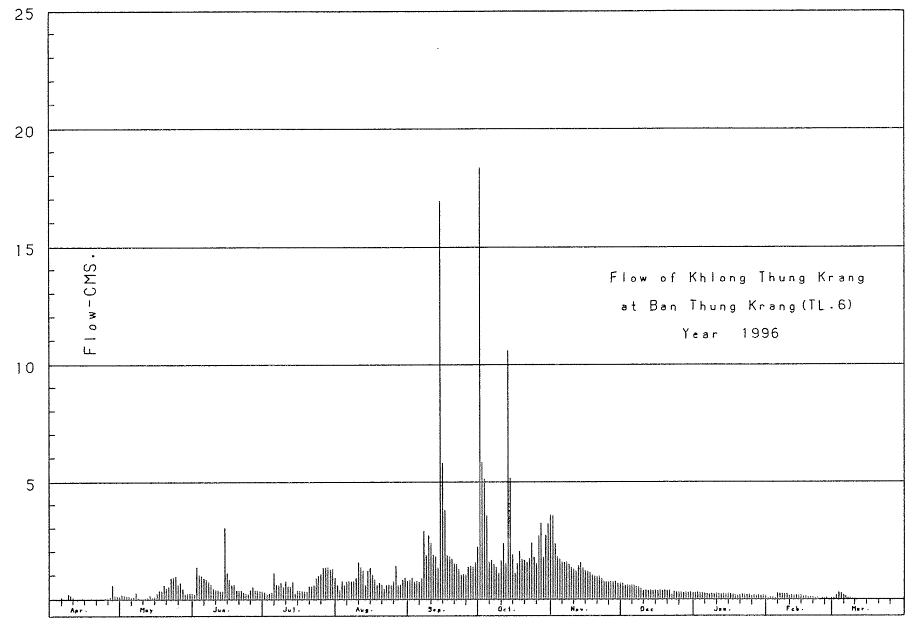
Khlong Thung Krang at Ban Thung Krang, Chanthaburi (TL.6)

Location	Lat. 13°-01′-36″ N., Long. 102°-16′-21″ E., on right bank at the bridge of Chanthaburi-Sa Kaeo Highway, Ban Thung Krang, Amphoe Pong Nam Ron, Chanthaburi.
Drainage Area	42 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+183.10 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 20 meters from the top staff gage.
Elevation	+187.655 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. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.83	183.93	183.95	183.97	184.03	184.06	184.81	184.30	184.04	183.97	183.90	183.90	
2	183.84	183.92	184.13	183.95	184.00	184.07	184.40	184.23	184.03	183.97	183.90	183.93	
3	183.83	183.92	184.09	183.95	184.05	184.05	184.37	184.19	184.03	183.97	183.91	183.98	
4	183.71	183.91	184.08	183.97	184.03	184.05	184.30	184.18	184.03	183.96	183.90	183.96	
5	183.90	183.90	184.07	184.10	184.05	184.05	184.16	184.16	184.03	183.96	183.96	183.94	
6	183.83	183.90	184.06	184.03	184.05	184.07	184.17	184.16	184.03	183.95	183.96	183.92	
7	183.84	183.97	184.05	184.03	184.05	184.26	184.15	184.16	184.02	183.95	183.95	183.90	
8	183.95	183.86	184.03	184.04	184.05	184.20	184.13	184.15	184.02	183.95	183.95	183.89	
9	183.92	183.81	184.01	184.02	184.07	184.25	184.10	184.13	184.01	183.95	183.95	183.88	
10	183.90	183.82	184.00	184.05	184.16	184.23	184.17	184.12	184.00	183.96	183.93	183.86	
11	183.85	183.88	184.00	184.02	184.13	184.20	184.23	184.11	184.00	183.95	183.93	183.85	
12	183.85	183.90	183.99	184.02	184.11	184.19	184.15	184.14	184.00	183.95	183.93	183.85	
13	183.85	183.93	183.98	184.05	184.03	184.13	184.59	184.16	184.00	183.95	183.93	183.85	
14	183.85	183.87	184.27	183.96	184.11	184.77	184.37	184.13	184.00	183.95	183.93	183.84	
15	183.85	183.91	184.10	184.00	184.13	184.40	184.20	184.11	184.00	183.95	183.93	183.80	
16	183.75	183.96	184.06	183.99	184.09	184.31	184.10	184.11	184.00	183.95	183.92	183.85	
17	183.85	183.99	184.03	183.99	184.06	184.20	184.15	184.10	184.00	183.95	183.92	183.82	
18	183.85	183.99	184.03	183.98	184.03	184.19	184.21	184.09	184.00	183.93	183.91	183.82	
19	183.85	184.03	184.00	183.98	184.04	184.18	184.18	184.08	184.00	183.93	183.90	183.83	
20	183.85	184.01	183.99	184.02	184.03	184.15	184.17	184.08	184.00	183.93	183.91	183.83	
21	183.85	184.02	183.99	184.02	184.01	184.15	184.16	184.08	184.00	183.95	183.90	183.77	
22	183.85	184.07	183.97	184.03	184.03	184.12	184.18	184.07	183.95	183.94	183.90	183.70	
23	183.85	184.07	183.95	184.07	184.03	184.09	184.23	184.05	183.98	183.94	183.87	183.70	
24	183.85	184.08	183.95	184.08	184.03	184.09	184.19	184.05	183.98	183.94	183.88	183.70	
25	183.87	184.03	184.00	184.09	184.05	184.09	184.15	184.05	183.98	183.93	183.88	183.73	
26	183.90	184.04	184.02	184.13	184.14	184.13	184.25	184.05	183.97	183.93	183.88	183.74	
27	184.03	184.01	184.00	184.13	184.03	184.14	184.28	184.05	183.97	183.93	183.87	183.77	
28	183.92	183.95	183.99	184.13	184.03	184.13	184.19	184.05	183.97	183.93	183.87	183.82	
29	183.92	183.95	183.99	184.12	184.06	184.16	184.25	184.04	183.97	183.93		183.70	
30	183.91	183.96	183.98	184.12	184.07	184.22	184.28	184.04	183.97	183.93		183.74	
31		183.95		184.07	184.05		184.30		183.96	183.93		183.78	
Mean	183.86	183.95	184.03	184.04	184.06	184.18	184.24	184.11	184.00	183.95	183.91	183.83	
Max	184.03	184.08	184.27	184.13	184.16	184.77	184.81	184.30	184.04	183.97	183.96	183.98	184.81
Min	183.71	183.81	183.95	183.95	184.00	184.05	184.10	184.04	183.95	183.93	183.87	183.70	183.70

Annual Max Momentary Gage Height 184.90 M (MSL), at 18.00 Hours, on Sep 14, 1996
Zero Gage at Bottom Elevation 183.10 M (MSL), River Bed 182.63 M (MSL)
Left Bank Elevation 187.42 M (MSL)
Right Bank Elevation 187.40 M (MSL), Drainage Area 42 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.030	0.190	0.250	0.310	0.625	0.850	18.390	3.600	0.700	0.310	0.100	0.100	
2	0.040	0.160	1.375	0.250	0.400	0.925	5.850	2.410	0.625	0.310	0.100	0.190	
3	0.030	0.160	1.075	0.250	0.775	0.775	5.175	1.825	0.625	0.310	0.130	0.340	
4	0.000	0.130	1.000	0.310	0.625	0.775	3.600	1.750	0.625	0.280	0.100	0.280	
5	0.100	0.100	0.925	1.150	0.775	0.775	1.600	1.600	0.625	0.280	0.280	0.220	
6	0.030	0.100	0.850	0.625	0.775	0.925	1.675	1.600	0.625	0.250	0.280	0.160	
7	0.040	0.310	0.775	0.625	0.775	2.920	1.525	1.600	0.550	0.250	0.250	0.100	
8	0.250	0.060	0.625	0.700	0.775	1.900	1.375	1.525	0.550	0.250	0.250	0.090	
9	0.160	0.010	0.475	0.550	0.925	2.750	1.150	1.375	0.475	0.250	0.250	0.080	
10	0.100	0.020	0.400	0.775	1.600	2.410	1.675	1.300	0.400	0.280	0.190	0.060	
11	0.050	0.080	0.400	0.550	1.375	1.900	2.410	1.225	0.400	0.250	0.190	0.050	
12	0.050	0.100	0.370	0.550	1.225	1.825	1.525	1.450	0.400	0.250	0.190	0.050	
13	0.050	0.190	0.340	0.775	0.625	1.375	10.620	1.600	0.400	0.250	0.190	0.050	
14	0.050	0.070	3.090	0.280	1.225	16.935	5.175	1.375	0.400	0.250	0.190	0.040	
15	0.050	0.130	1.150	0.400	1.375	5.850	1.900	1.225	0.400	0.250	0.190	0.000	
16	0.000	0.280	0.850	0.370	1.075	3.825	1.150	1.225	0.400	0.250	0.160	0.050	
17	0.050	0.370	0.625	0.370	0.850	1.900	1.525	1.150	0.400	0.250	0.160	0.020	
18	0.050	0.370	0.625	0.340	0.625	1.825	2.070	1.075	0.400	0.190	0.130	0.020	
19	0.050	0.625	0.400	0.340	0.700	1.750	1.750	1.000	0.400	0.190	0.100	0.030	
20	0.050	0.475	0.370	0.550	0.625	1.525	1.675	1.000	0.400	0.190	0.130	0.030	
21	0.050	0.550	0.370	0.550	0.475	1.525	1.600	1.000	0.400	0.250	0.100	0.000	
22	0.050	0.925	0.310	0.625	0.625	1.300	1.750	0.925	0.250	0.220	0.100	0.000	
23	0.050	0.925	0.250	0.925	0.625	1.075	2.410	0.775	0.340	0.220	0.070	0.000	
24	0.050	1.000	0.250	1.000	0.625	1.075	1.825	0.775	0.340	0.220	0.080	0.000	
25	0.070	0.625	0.400	1.075	0.775	1.075	1.525	0.775	0.340	0.190	0.080	0.000	
26	0.100	0.700	0.550	1.375	1.450	1.375	2.750	0.775	0.310	0.190	0.080	0.000	
27	0.625	0.475	0.400	1.375	0.625	1.450	3.260	0.775	0.310	0.190	0.070	0.000	
28	0.160	0.250	0.370	1.375	0.625	1.375	1.825	0.775	0.310	0.190	0.070	0.020	
29	0.160	0.250	0.370	1.300	0.850	1.600	2.750	0.700	0.310	0.190		0.000	
30	0.130	0.280	0.340	1.300	0.925	2.240	3.260	0.700	0.310	0.190		0.000	
31		0.250		0.925	0.775		3.600		0.280	0.190		0.000	
Total	2.675	10.160	19.580	21.895	26.125	67.805	98.370	38.885	13.300	7.330	4.210	1.980	312.315 CMSDAY
Mean	0.089	0.328	0.653	0.706	0.843	2.260	3.173	1.296	0.429	0.236	0.150	0.064	0.856 CMS
Max	0.625	1.000	3.090	1.375	1.600	16.935	18.390	3.600	0.700	0.310	0.280	0.340	18.390 CMS
Min	0.000	0.010	0.250	0.250	0.400	0.775	1.150	0.700	0.250	0.190	0.070	0.000	0.000 CMS
Runoff	0.231	0.878	1.692	1.892	2.257	5.858	8.499	3.360	1.149	0.633	0.364	0.171	26.984 MCM

Momentary Peak 21.90 CMS, at 184.90 M (MSL), at 18.00 Hours, on Sep 14, 1996

Runoff Yield 20.37 Liters/Second/Square KM, Momentary Peak Yield 521.429 Liters/Second/Square KM

WATER YEAR 1996

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 5-time daily readings at 06.00, 09.00, 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: 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 86 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

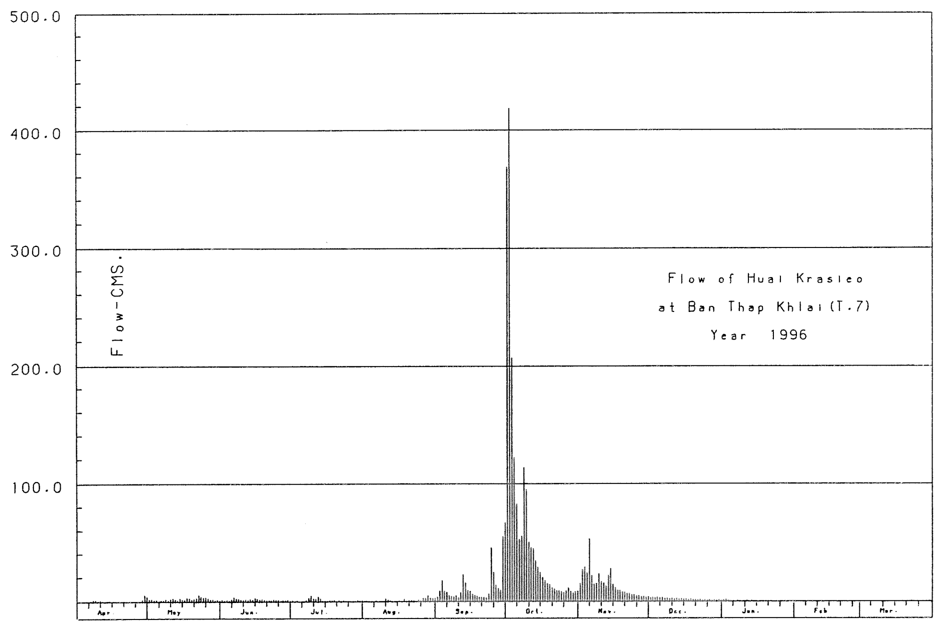
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.06	0.22	0.12	0.03	-0.01	0.43	4.63	1.08	0.36	0.06	-0.08	-0.21	
2	-0.08	0.18	0.09	0.01	-0.03	0.75	4.84	1.46	0.35	0.18	-0.09	-0.20	
3	-0.09	0.12	0.07	0.01	-0.05	1.17	3.86	1.53	0.35	0.04	-0.09	-0.21	
4	-0.06	0.07	0.08	-0.04	-0.06	0.74	3.28	1.38	0.37	0.04	-0.10	-0.14	
5	-0.05	0.03	0.20	-0.04	-0.06	0.73	2.81	2.22	0.35	0.03	-0.11	-0.10	
6	-0.04	0.00	0.35	-0.04	-0.07	0.53	2.21	1.29	0.34	0.03	-0.11	-0.14	
7	0.13	0.10	0.25	0.07	-0.03	0.43	2.26	1.06	0.27	0.02	-0.12	-0.15	
8	0.06	0.15	0.20	0.34	-0.04	0.44	3.21	1.06	0.25	0.02	-0.13	-0.16	
9	0.05	0.11	0.15	0.49	-0.03	0.49	2.99	1.36	0.25	0.02	-0.13	-0.17	
10	0.02	0.17	0.15	0.28	0.22	0.37	2.15	1.12	0.24	0.01	-0.13	-0.18	
11	0.00	0.31	0.15	0.20	0.15	0.67	2.01	1.09	0.23	0.01	-0.13	-0.21	
12	-0.01	0.16	0.15	0.47	0.03	1.32	2.00	0.97	0.22	-0.01	-0.14	-0.22	
13	-0.02	0.09	0.18	0.23	-0.01	1.10	1.70	1.32	0.20	-0.01	-0.15	-0.22	
14	-0.03	0.30	0.17	0.06	-0.03	0.78	1.52	1.49	0.20	-0.01	-0.16	-0.21	
15	-0.04	0.12	0.34	0.04	-0.04	0.74	1.38	1.05	0.19	-0.02	-0.16	-0.21	
16	-0.05	0.10	0.20	0.03	-0.05	0.61	1.26	0.91	0.18	-0.03	-0.12	-0.21	
17	-0.07	0.37	0.18	0.02	-0.06	0.54	1.15	0.82	0.16	-0.03	-0.15	-0.18	
18	-0.05	0.25	0.16	0.08	0.18	0.45	1.08	0.78	0.16	-0.03	-0.15	-0.18	
19	-0.05	0.17	0.13	0.06	0.01	0.41	1.02	0.73	0.16	-0.03	-0.16	-0.14	
20	-0.08	0.18	0.11	0.03	-0.03	0.35	0.93	0.69	0.13	-0.04	-0.15	-0.43	
21	-0.09	0.33	0.09	0.00	0.10	0.35	0.85	0.65	0.13	-0.03	-0.15	-0.40	
22	-0.10	0.56	0.09	-0.02	0.05	0.34	0.80	0.62	0.12	-0.03	-0.16	-0.40	
23	-0.10	0.41	0.13	-0.03	0.00	0.62	0.77	0.59	0.11	-0.05	-0.17	-0.39	
24	-0.10	0.37	0.13	-0.04	0.06	2.02	0.75	0.55	0.10	-0.12	-0.19	-0.39	
25	-0.09	0.35	0.09	-0.04	0.05	1.41	0.71	0.51	0.10	-0.08	-0.22	-0.39	
26	-0.17	0.27	0.09	-0.05	0.27	1.00	0.76	0.47	0.09	-0.07	-0.22	-0.40	
27	-0.16	0.18	0.09	-0.02	0.30	0.90	0.92	0.45	0.09	-0.09	-0.19	-0.36	
28	0.15	0.14	0.08	0.00	0.49	0.79	0.73	0.43	0.08	-0.08	-0.21	-0.34	
29	0.56	0.11	0.06	0.02	0.34	2.25	0.67	0.41	0.08	-0.06		-0.35	
30	0.39	0.10	0.06	0.02	0.21	2.52	0.72	0.39	0.08	-0.04		-0.35	
31		0.09		0.02	0.24		0.74		0.07	-0.04		-0.36	
Mean	-0.01	0.20	0.14	0.07	0.07	0.84	1.76	0.95	0.19	-0.01	-0.15	-0.26	
Max	0.56	0.56	0.35	0.49	0.49	2.52	4.84	2.22	0.37	0.18	-0.08	-0.10	4.84
Min	-0.17	0.00	0.06	-0.05	-0.07	0.34	0.67	0.39	0.07	-0.12	-0.22	-0.43	-0.43

Annual Max Momentary Gage Height 5.50 M (A.D), at 21.00 Hours, on Oct 1, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.46 M (A.D)

Left Bank Elevation 4.37 M (A.D)

Right Bank Elevation 3.95 M (A.D), Drainage Area 607 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	2.57	1.76	1.22	1.00	4.46	368.70	16.06	3.76	1.38	0.61	0.00	
2	0.61	2.24	1.55	1.11	0.89	9.05	419.35	27.41	3.68	2.24	0.56	0.00	
3	0.56	1.76	1.44	1.11	0.78	18.63	207.66	29.55	3.68	1.27	0.56	0.00	
4	0.72	1.44	1.49	0.83	0.72	8.88	122.72	24.95	3.85	1.27	0.50	0.30	
5	0.78	1.22	2.40	0.83	0.72	8.71	83.10	54.06	3.68	1.22	0.45	0.50	
6	0.83	1.05	3.68	0.83	0.67	5.72	53.63	22.20	3.59	1.22	0.45	0.30	
7	1.84	1.60	2.83	1.44	0.89	4.46	55.78	15.52	3.00	1.16	0.40	0.25	
8	1.38	2.00	2.40	3.59	0.83	4.58	114.74	15.52	2.83	1.16	0.35	0.20	
9	1.33	1.68	2.00	5.18	0.89	5.18	95.07	24.34	2.83	1.16	0.35	0.15	
10	1.16	2.16	2.00	3.08	2.57	3.85	51.30	17.18	2.74	1.11	0.35	0.10	
11	1.05	3.34	2.00	2.40	2.00	7.75	45.98	16.33	2.66	1.11	0.35	0.00	
12	1.00	2.08	2.00	4.94	1.22	23.11	45.60	13.27	2.57	1.00	0.30	0.00	
13	0.94	1.55	2.24	2.66	1.00	16.60	35.07	23.11	2.40	1.00	0.25	0.00	
14	0.89	3.25	2.16	1.38	0.89	9.56	29.25	28.33	2.40	1.00	0.20	0.00	
15	0.83	1.76	3.59	1.27	0.83	8.88	24.95	15.25	2.32	0.94	0.20	0.00	
16	0.78	1.60	2.40	1.22	0.78	6.85	21.30	12.01	2.24	0.89	0.40	0.00	
17	0.67	3.85	2.24	1.16	0.72	5.86	18.05	10.28	2.08	0.89	0.25	0.10	
18	0.78	2.83	2.08	1.49	2.24	4.70	16.06	9.56	2.08	0.89	0.25	0.10	
19	0.78	2.16	1.84	1.38	1.11	4.22	14.44	8.71	2.08	0.89	0.20	0.30	
20	0.61	2.24	1.68	1.22	0.89	3.68	12.43	8.05	1.84	0.83	0.25	0.00	
21	0.56	3.51	1.55	1.05	1.60	3.68	10.85	7.45	1.84	0.89	0.25	0.00	
22	0.50	6.14	1.55	0.94	1.33	3.59	9.90	7.00	1.76	0.89	0.20	0.00	
23	0.50	4.22	1.84	0.89	1.05	7.00	9.39	6.56	1.68	0.78	0.15	0.00	
24	0.50	3.85	1.84	0.83	1.38	46.36	9.05	6.00	1.60	0.40	0.05	0.00	
25	0.56	3.68	1.55	0.83	1.33	25.87	8.37	5.44	1.60	0.61	0.00	0.00	
26	0.15	3.00	1.55	0.78	3.00	13.90	9.22	4.94	1.55	0.67	0.00	0.00	
27	0.20	2.24	1.55	0.94	3.25	11.80	12.22	4.70	1.55	0.56	0.05	0.00	
28	2.00	1.92	1.49	1.05	5.18	9.73	8.71	4.46	1.49	0.61	0.00	0.00	
29	6.14	1.68	1.38	1.16	3.59	55.35	7.75	4.22	1.49	0.72		0.00	
30	4.01	1.60	1.38	1.16	2.49	67.82	8.54	4.01	1.49	0.83		0.00	
31		1.55		1.16	2.74		8.88		1.44	0.83		0.00	
Total	33.38	75.77	59.46	49.13	48.58	409.83	1938.06	446.47	73.80	30.42	7.93	2.30	3175.13 CMSDAY
Mean	1.11	2.44	1.98	1.58	1.57	13.66	62.52	14.88	2.38	0.98	0.28	0.07	8.70 CMS
Max	6.14	6.14	3.68	5.18	5.18	67.82	419.35	54.06	3.85	2.24	0.61	0.50	419.35 CMS
Min	0.15	1.05	1.38	0.78	0.67	3.59	7.75	4.01	1.44	0.40	0.00	0.00	0.00 CMS
Runoff	2.884	6.547	5.137	4.245	4.197	35.409	167.448	38.575	6.376	2.628	0.685	0.199	274.331 MCM

Momentary Peak 587.25 CMS, at 5.50 M (A.D), at 21.00 Hours, on Oct 1, 1996
Runoff Yield 14.33 Liters/Second/Square KM, Momentary Peak Yield 967.463 Liters/Second/Square KM

WATER YEAR 1996

NAKHON NAYOK RIVER BASIN

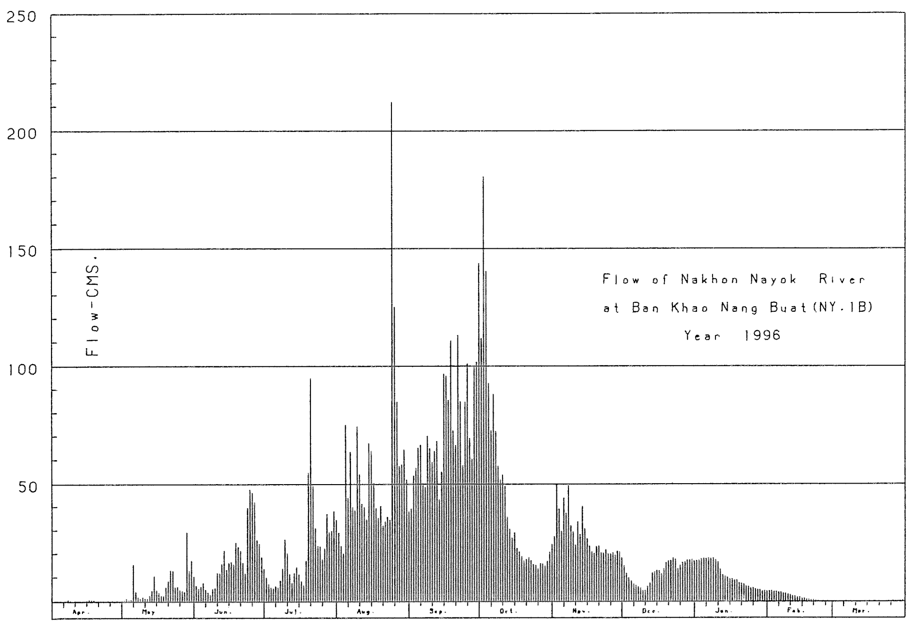
Nakhon Nayok River at Khao Nang Buat, Nakhon Nayok (Ny.1B)

Location	Lat. 14°-14′-45″ N., Long. 101°-12′-38″ E., on right bank about 700 meters upstream from NY.1, Amphoe Muang, Nakhon Nayok.
Drainage Area	519 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 right bank about 200 meters from the staff gage.
Elevation	+8.758 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1973 - 1980, 1991 to date.
Rated by Float	-
Rated by Current Meter	1973 - 1980, 1991 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 8.81 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	3.46	4.02	4.21	4.90	5.19	6.62	4.85	4.42	4.50	3.84	3.37	
2	3.29	3.52	3.90	4.06	4.72	5.50	7.67	5.42	4.29	4.51	3.83	3.37	
3	3.28	3.47	3.99	3.96	4.61	5.56	7.08	5.18	4.19	4.53	3.82	3.36	
4	3.28	3.45	4.09	3.91	5.93	5.73	6.28	4.92	4.14	4.54	3.80	3.36	
5	3.28	4.45	3.88	4.01	5.31	5.76	5.88	5.31	4.07	4.54	3.79	3.36	
6	3.35	3.80	3.76	3.94	5.70	5.43	6.19	5.13	4.01	4.54	3.77	3.36	
7	3.49	3.58	3.70	4.15	5.20	5.40	5.87	5.41	3.98	4.54	3.75	3.36	
8	3.40	3.54	3.89	4.38	5.17	5.83	5.58	4.99	3.92	4.54	3.73	3.36	
9	3.35	3.58	3.94	4.82	5.91	5.73	5.46	4.91	3.85	4.52	3.72	3.36	
10	3.37	3.54	4.29	4.61	5.51	5.61	5.50	4.74	3.84	4.48	3.68	3.35	
11	3.38	3.52	4.29	4.27	5.24	5.70	5.41	5.03	3.98	4.36	3.65	3.35	
12	3.34	3.67	4.45	4.11	5.20	5.79	5.09	4.88	4.10	4.26	3.62	3.36	
13	3.38	3.83	4.66	4.29	5.06	5.29	4.94	5.22	4.30	4.22	3.60	3.37	
14	3.38	4.23	4.35	4.41	5.77	5.53	4.84	4.95	4.31	4.21	3.58	3.37	
15	3.44	3.87	4.47	4.27	5.71	6.36	4.90	4.83	4.35	4.18	3.55	3.37	
16	3.46	3.75	4.48	4.13	5.43	6.34	4.69	4.72	4.33	4.17	3.53	3.37	
17	3.47	3.66	4.45	4.04	5.19	6.14	4.63	4.64	4.28	4.16	3.51	3.36	
18	3.42	3.63	4.77	4.51	5.08	6.60	4.57	4.61	4.37	4.15	3.50	3.36	
19	3.42	3.97	4.71	5.52	5.22	5.88	4.50	4.72	4.48	4.11	3.48	3.36	
20	3.40	4.13	4.65	6.32	4.98	5.75	4.52	4.72	4.50	4.08	3.47	3.36	
21	3.40	4.34	4.47	5.41	5.03	6.64	4.55	4.62	4.51	4.05	3.44	3.36	
22	3.40	4.34	4.29	4.96	5.09	6.13	4.51	4.62	4.55	4.02	3.41	3.36	
23	3.37	3.97	5.20	4.72	5.05	5.58	4.45	4.67	4.52	3.98	3.41	3.36	
24	3.37	3.97	5.38	4.72	8.08	6.12	4.43	4.60	4.38	3.94	3.40	3.37	
25	3.40	3.87	5.35	4.53	6.84	6.44	4.38	4.60	4.43	3.93	3.40	3.37	
26	3.39	3.82	5.26	4.68	6.12	5.81	4.46	4.62	4.47	3.91	3.39	3.41	
27	3.35	3.80	4.81	5.12	5.58	5.64	4.46	4.59	4.49	3.88	3.38	3.39	
28	3.39	4.91	4.75	4.91	5.59	6.42	4.42	4.65	4.51	3.86	3.38	3.39	
29	3.41	4.33	4.56	4.92	5.72	6.45	4.50	4.63	4.52	3.83		3.43	
30	3.44	4.51	4.37	5.16	5.46	7.13	4.63	4.55	4.52	3.83		3.43	
31		4.22		5.05	5.15		4.75		4.50	3.81		3.47	
Mean	3.38	3.89	4.44	4.58	5.47	5.92	5.15	4.84	4.29	4.20	3.59	3.37	
Max	3.49	4.91	5.38	6.32	8.08	7.13	7.67	5.42	4.55	4.54	3.84	3.47	8.08
Min	3.28	3.45	3.70	3.91	4.61	5.19	4.38	4.55	3.84	3.81	3.38	3.35	3.28

Annual Max Momentary Gage Height 9.00 M (MSL), at 10.00 Hours, on Aug 24, 1996
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 2.76 M (MSL)
Left Bank Elevation 9.77 M (MSL)
Right Bank Elevation 8.80 M (MSL), Drainage Area 519 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.76	6.88	10.42	29.40	39.84	112.20	27.75	15.16	17.40	4.68	0.34	
2	0.18	1.20	5.40	7.44	23.78	54.00	180.46	50.00	12.18	17.69	4.56	0.34	
3	0.16	0.82	6.48	6.12	20.59	57.00	140.64	39.48	9.98	18.27	4.44	0.32	
4	0.16	0.70	7.86	5.52	75.50	65.50	93.00	30.12	8.88	18.56	4.20	0.32	
5	0.16	16.00	5.16	6.74	44.50	67.00	73.00	44.50	7.58	18.56	4.09	0.32	
6	0.30	4.20	3.76	5.88	64.00	50.50	88.50	37.68	6.74	18.56	3.87	0.32	
7	0.94	1.80	3.10	9.10	40.20	49.00	72.50	49.50	6.36	18.56	3.65	0.32	
8	0.40	1.40	5.28	14.16	39.12	70.50	58.00	32.64	5.64	18.56	3.43	0.32	
9	0.30	1.80	5.88	26.76	74.50	65.50	52.00	29.76	4.80	17.98	3.32	0.32	
10	0.34	1.40	12.18	20.59	54.50	59.50	54.00	24.36	4.68	16.84	2.88	0.30	
11	0.36	1.20	12.18	11.74	41.72	64.00	49.50	34.08	6.36	13.72	2.55	0.30	
12	0.28	2.77	16.00	8.22	40.20	68.50	36.24	28.74	8.00	11.52	2.22	0.32	
13	0.36	4.56	22.04	12.18	35.16	43.62	30.84	40.96	12.40	10.64	2.00	0.34	
14	0.36	10.86	13.50	14.88	67.50	55.50	27.42	31.20	12.62	10.42	1.80	0.34	
15	0.64	5.04	16.56	11.74	64.50	97.12	29.40	27.09	13.50	9.76	1.50	0.34	
16	0.76	3.65	16.84	8.66	50.50	96.08	22.91	23.78	13.06	9.54	1.30	0.34	
17	0.82	2.66	16.00	7.16	39.84	86.00	21.17	21.46	11.96	9.32	1.10	0.32	
18	0.52	2.33	25.23	17.69	35.88	111.00	19.43	20.59	13.94	9.10	1.00	0.32	
19	0.52	6.24	23.49	55.00	40.96	73.00	17.40	23.78	16.84	8.22	0.88	0.32	
20	0.40	8.66	21.75	95.04	32.28	66.50	17.98	23.78	17.40	7.72	0.82	0.32	
21	0.40	13.28	16.56	49.50	34.08	113.40	18.85	20.88	17.69	7.30	0.64	0.32	
22	0.40	13.28	12.18	31.56	36.24	85.50	17.69	20.88	18.85	6.88	0.46	0.32	
23	0.34	6.24	40.20	23.78	34.80	58.00	16.00	22.33	17.98	6.36	0.46	0.32	
24	0.34	6.24	48.00	23.78	212.44	85.00	15.44	20.30	14.16	5.88	0.40	0.34	
25	0.40	5.04	46.50	18.27	125.52	101.52	14.16	20.30	15.44	5.76	0.40	0.34	
26	0.38	4.44	42.48	22.62	85.00	69.50	16.28	20.88	16.56	5.52	0.38	0.46	
27	0.30	4.20	26.43	37.32	58.00	61.00	16.28	20.01	17.12	5.16	0.36	0.38	
28	0.38	29.76	24.65	29.76	58.50	100.36	15.16	21.75	17.69	4.92	0.36	0.38	
29	0.46	13.06	19.14	30.12	65.00	102.10	17.40	21.17	17.98	4.56		0.58	
30	0.64	17.69	13.94	38.76	52.00	143.79	21.17	18.85	17.98	4.56		0.58	
31		10.64		34.80	38.40		24.65		17.40	4.32		0.82	
Total	12.20	201.92	535.65	695.31	1714.61	2259.83	1389.67	848.60	396.93	342.16	57.75	11.32	8465.95 CMSDAY
Mean	0.41	6.51	17.86	22.43	55.31	75.33	44.83	28.29	12.80	11.04	2.06	0.37	23.19 CMS
Max	0.94	29.76	48.00	95.04	212.44	143.79	180.46	50.00	18.85	18.56	4.68	0.82	212.44 CMS
Min	0.16	0.70	3.10	5.52	20.59	39.84	14.16	18.85	4.68	4.32	0.36	0.30	0.16 CMS
Runoff	1.054	17.446	46.280	60.075	148.142	195.249	120.068	73.319	34.295	29.563	4.990	0.978	731.458 MCM

Momentary Peak 292.00 CMS, at 9.00 M (MSL), at 10.00 Hours, on Aug 24, 1996

Runoff Yield 44.69 Liters/Second/Square KM, Momentary Peak Yield 562.620 Liters/Second/Square KM

WATER YEAR 1996

NAKHON NAYOK RIVER BASIN

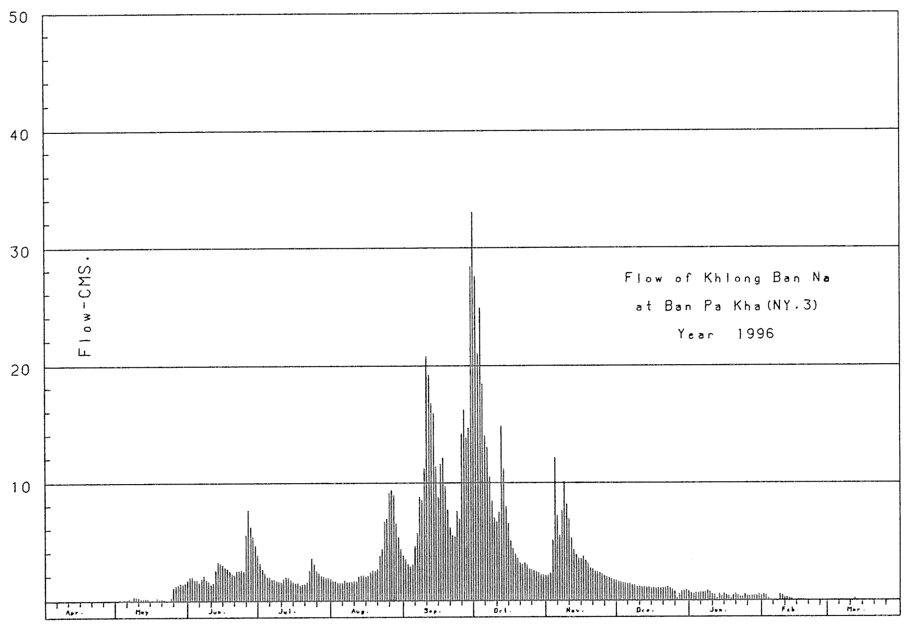
Khlong Ban Na at Ban Pa Kha, Nakhon Nayok (Ny.3)

Location	Lat. 14°-17′-07″ N., Long. 101°-04′-26″ E., on left bank near Wat Ban Pa Kha, 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	+6.367 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, 1988 to date.
Rated by Float	-
Rated by Current Meter	1977 - 1978, 1980, 1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.57	0.62	1.35	1.71	1.25	1.80	4.16	1.39	1.22	0.88	0.85	0.57	
2	0.57	0.67	1.34	1.58	1.22	1.70	3.73	1.46	1.20	0.87	0.81	0.53	
3	0.57	0.67	1.27	1.45	1.20	1.63	3.99	2.18	1.19	0.88	0.72	0.54	
4	0.57	0.67	1.25	1.36	1.17	1.69	3.55	3.00	1.16	0.90	0.65	0.55	
5	0.57	0.67	1.20	1.34	1.19	2.07	3.18	2.49	1.17	0.90	0.64	0.54	
6	0.57	0.67	1.31	1.29	1.24	2.30	3.09	2.25	1.15	0.91	0.62	0.53	
7	0.57	0.67	1.37	1.27	1.21	2.66	2.84	2.54	1.13	0.91	0.61	0.52	
8	0.57	0.77	1.28	1.25	1.20	2.63	2.63	2.79	1.11	0.97	0.83	0.53	
9	0.55	0.74	1.21	1.21	1.22	2.91	2.47	2.60	1.08	0.92	0.82	0.53	
10	0.50	0.72	1.14	1.21	1.22	3.71	2.44	2.46	1.07	0.86	0.75	0.54	
11	0.50	0.70	1.17	1.28	1.23	3.61	2.52	2.22	1.06	0.82	0.72	0.61	
12	0.50	0.70	1.54	1.35	1.35	3.42	3.26	2.01	1.06	0.73	0.73	0.70	
13	0.57	0.70	1.75	1.32	1.40	3.35	2.90	1.92	1.05	0.87	0.67	0.66	
14	0.60	0.68	1.70	1.27	1.39	2.92	2.58	1.82	1.05	0.77	0.64	0.61	
15	0.60	0.65	1.67	1.20	1.37	2.66	2.42	1.83	1.04	0.86	0.64	0.60	
16	0.63	0.65	1.62	1.18	1.37	2.94	2.17	1.87	1.03	0.83	0.65	0.60	
17	0.63	0.65	1.57	1.17	1.49	3.00	2.03	1.79	1.03	0.79	0.68	0.60	
18	0.60	0.71	1.52	1.12	1.53	2.75	1.93	1.71	1.03	0.72	0.66	0.56	
19	0.61	0.68	1.43	1.13	1.53	2.55	1.83	1.61	1.03	0.80	0.65	0.57	
20	0.63	0.68	1.41	1.16	1.56	2.38	1.73	1.57	1.03	0.87	0.65	0.57	
21	0.60	0.67	1.50	1.19	1.89	2.25	1.68	1.52	1.05	0.80	0.61	0.56	
22	0.59	0.65	1.53	1.54	2.02	2.24	1.73	1.49	1.06	0.77	0.60	0.55	
23	0.58	0.64	1.54	1.82	2.44	2.53	1.66	1.48	1.04	0.75	0.60	0.56	
24	0.58	0.74	1.51	1.70	2.46	2.46	1.59	1.43	0.99	0.85	0.57	0.57	
25	0.61	1.03	2.27	1.53	2.70	3.20	1.55	1.39	0.94	0.80	0.57	0.59	
26	0.63	1.10	2.54	1.45	2.72	3.38	1.52	1.34	0.72	0.76	0.59	0.60	
27	0.62	1.13	2.39	1.39	2.68	3.17	1.50	1.34	0.86	0.80	0.54	0.61	
28	0.61	1.15	2.23	1.35	2.42	3.24	1.46	1.29	0.93	0.79	0.57	0.67	
29	0.62	1.15	2.09	1.33	2.23	4.22	1.42	1.27	0.96	0.80		0.68	
30	0.62	1.16	1.89	1.31	2.02	4.50	1.40	1.24	0.96	0.83		0.64	
31		1.24		1.29	1.90		1.39		0.95	0.79		0.62	
Mean	0.58	0.78	1.59	1.35	1.67	2.80	2.33	1.84	1.04	0.83	0.67	0.58	
Max	0.63	1.24	2.54	1.82	2.72	4.50	4.16	3.00	1.22	0.97	0.85	0.70	4.50
Min	0.50	0.62	1.14	1.12	1.17	1.63	1.39	1.24	0.72	0.72	0.54	0.52	0.50

Annual Max Momentary Gage Height 4.57 M (A.D), at 6.00 Hours, on Sep 30, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.42 M (A.D)
Left Bank Elevation 7.29 M (A.D)
Right Bank Elevation 7.30 M (A.D), Drainage Area 203 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.040	2.050	3.203	1.750	3.533	27.553	2.170	1.660	0.650	0.575	0.000	
2	0.000	0.140	2.020	2.740	1.660	3.167	21.050	2.380	1.600	0.625	0.475	0.000	
3	0.000	0.140	1.810	2.350	1.600	2.910	24.950	5.200	1.570	0.650	0.250	0.000	
4	0.000	0.140	1.750	2.080	1.510	3.130	18.400	12.200	1.480	0.700	0.100	0.000	
5	0.000	0.140	1.600	2.020	1.570	4.650	14.000	7.240	1.510	0.700	0.080	0.000	
6	0.000	0.140	1.930	1.870	1.720	5.800	13.100	5.550	1.450	0.730	0.040	0.000	
7	0.000	0.140	2.110	1.810	1.630	8.827	10.600	7.707	1.390	0.730	0.020	0.000	
8	0.000	0.375	1.840	1.750	1.600	8.547	8.547	10.100	1.330	0.910	0.525	0.000	
9	0.000	0.300	1.630	1.630	1.660	11.300	7.053	8.267	1.240	0.760	0.500	0.000	
10	0.000	0.250	1.420	1.630	1.660	20.750	6.773	6.960	1.210	0.600	0.325	0.000	
11	0.000	0.200	1.510	1.840	1.690	19.250	7.520	5.400	1.180	0.500	0.250	0.020	
12	0.000	0.200	2.620	2.050	2.050	16.767	14.900	4.350	1.180	0.275	0.275	0.200	
13	0.000	0.200	3.350	1.960	2.200	15.950	11.200	3.980	1.150	0.625	0.140	0.120	
14	0.000	0.160	3.167	1.810	2.170	11.400	8.080	3.607	1.150	0.375	0.080	0.020	
15	0.000	0.100	3.057	1.600	2.110	8.827	6.587	3.643	1.120	0.600	0.080	0.000	
16	0.060	0.100	2.873	1.540	2.110	11.600	5.150	3.790	1.090	0.525	0.100	0.000	
17	0.060	0.100	2.710	1.510	2.470	12.200	4.450	3.497	1.090	0.425	0.160	0.000	
18	0.000	0.225	2.560	1.360	2.590	9.700	4.020	3.203	1.090	0.250	0.120	0.000	
19	0.020	0.160	2.290	1.390	2.590	7.800	3.643	2.837	1.090	0.450	0.100	0.000	
20	0.060	0.160	2.230	1.480	2.680	6.280	3.277	2.710	1.090	0.625	0.100	0.000	
21	0.000	0.140	2.500	1.570	3.863	5.550	3.093	2.560	1.150	0.450	0.020	0.000	
22	0.000	0.100	2.590	2.620	4.400	5.500	3.277	2.470	1.180	0.375	0.000	0.000	
23	0.000	0.080	2.620	3.607	6.773	7.613	3.020	2.440	1.120	0.325	0.000	0.000	
24	0.000	0.300	2.530	3.167	6.960	6.960	2.770	2.290	0.970	0.575	0.000	0.000	
25	0.020	1.090	5.650	2.590	9.200	14.200	2.650	2.170	0.820	0.450	0.000	0.000	
26	0.060	1.300	7.707	2.350	9.400	16.300	2.560	2.020	0.250	0.350	0.000	0.000	
27	0.040	1.390	6.340	2.170	9.013	13.900	2.500	2.020	0.600	0.450	0.000	0.020	
28	0.020	1.450	5.450	2.050	6.587	14.667	2.380	1.870	0.790	0.425	0.000	0.140	
29	0.040	1.450	4.750	1.990	5.450	28.473	2.260	1.810	0.880	0.450		0.160	
30	0.040	1.480	3.863	1.930	4.400	33.000	2.200	1.720	0.880	0.525		0.080	
31		1.720		1.870	3.900		2.170		0.850	0.425		0.040	
Total	0.420	13.910	88.527	63.537	108.966	338.551	249.733	126.161	35.160	16.505	4.315	0.800	1046.585 CMSDAY
Mean	0.014	0.449	2.951	2.050	3.515	11.285	8.056	4.205	1.134	0.532	0.154	0.026	2.867 CMS
Max	0.060	1.720	7.707	3.607	9.400	33.000	27.553	12.200	1.660	0.910	0.575	0.200	33.000 CMS
Min	0.000	0.040	1.420	1.360	1.510	2.910	2.170	1.720	0.250	0.250	0.000	0.000	0.000 CMS
Runoff	0.036	1.202	7.649	5.490	9.415	29.251	21.577	10.900	3.038	1.426	0.373	0.069	90.425 MCM

Momentary Peak 34.26 CMS, at 4.57 M (A.D), at 6.00 Hours, on Sep 30, 1996
Runoff Yield 14.12 Liters/Second/Square KM, Momentary Peak Yield 168.768 Liters/Second/Square KM

WATER YEAR 1996

NAKHON NAYOK RIVER BASIN

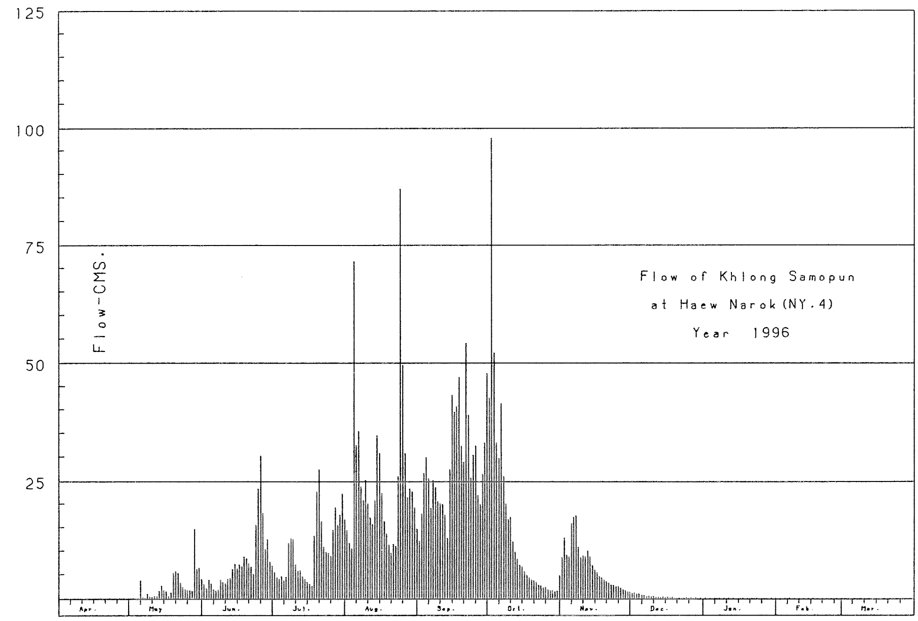
Khlong Samo Pun at Haew Narok, Prachin Buri (Ny.4)

Location	Lat. 14°-17'-23" N., Long. 101°-24'-16" E., on left bank at the bridge of Prachin Buri-Khao Yai Highway, Amphoe Muang, Prachin Buri.
Drainage Area	128 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+376.10 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+382.580 m.(M.S.L.)
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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 56 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.30	376.48	376.90	377.04	377.35	377.29	377.93	377.18	376.77	376.51	376.45	376.38	
2	376.30	376.46	376.85	377.00	377.28	377.44	378.65	377.31	376.76	376.51	376.45	376.37	
3	376.29	376.45	376.97	376.97	377.24	377.63	378.08	377.20	376.75	376.51	376.45	376.35	
4	376.29	376.46	376.91	377.01	378.35	377.70	377.76	377.18	376.74	376.51	376.44	376.35	
5	376.28	376.96	376.83	376.96	377.75	377.61	377.70	377.39	376.73	376.51	376.43	376.34	
6	376.28	376.68	376.80	377.00	377.81	377.47	377.91	377.42	376.71	376.50	376.42	376.34	
7	376.27	376.60	376.83	377.28	377.57	377.60	377.62	377.43	376.70	376.50	376.41	376.34	
8	376.27	376.74	376.96	377.31	377.51	377.57	377.49	377.25	376.68	376.50	376.40	376.33	
9	376.26	376.67	376.93	377.30	377.60	377.50	377.41	377.18	376.68	376.49	376.40	376.33	
10	376.26	376.61	376.92	377.11	377.49	377.49	377.42	377.19	376.67	376.49	376.40	376.33	
11	376.25	376.69	376.97	377.06	377.42	377.49	377.29	377.18	376.66	376.48	376.40	376.32	
12	376.25	376.68	376.99	377.06	377.38	377.43	377.22	377.23	376.65	376.47	376.40	376.32	
13	376.27	376.81	377.07	377.01	377.51	377.31	377.16	377.18	376.64	376.46	376.40	376.32	
14	376.29	376.89	377.12	376.97	377.79	377.65	377.11	377.11	376.63	376.46	376.40	376.31	
15	376.36	376.81	377.08	376.94	377.72	377.94	377.09	377.07	376.62	376.45	376.40	376.31	
16	376.38	376.79	377.11	376.91	377.54	377.88	377.05	377.04	376.61	376.45	376.39	376.31	
17	376.40	376.70	377.10	376.89	377.40	377.90	377.02	377.01	376.61	376.45	376.39	376.30	
18	376.40	376.78	377.18	377.32	377.33	378.00	376.99	376.99	376.61	376.45	376.39	376.30	
19	376.41	377.04	377.17	377.55	377.27	377.75	376.97	376.97	376.61	376.45	376.39	376.30	
20	376.41	377.05	377.12	377.65	377.21	377.68	376.95	376.94	376.60	376.45	376.38	376.29	
21	376.41	377.04	377.09	377.40	377.27	378.11	376.93	376.92	376.59	376.45	376.38	376.29	
22	376.42	376.93	377.03	377.25	377.26	377.87	376.90	376.90	376.58	376.45	376.38	376.29	
23	376.40	376.86	377.38	377.22	377.62	377.61	376.88	376.89	376.57	376.45	376.38	376.29	
24	376.41	376.83	377.56	377.21	378.53	377.71	376.86	376.88	376.57	376.45	376.38	376.29	
25	376.42	376.81	377.71	377.19	378.04	377.75	376.86	376.87	376.56	376.45	376.37	376.28	
26	376.43	376.81	377.44	377.35	377.72	377.53	376.83	376.85	376.55	376.45	376.36	376.28	
27	376.43	376.81	377.24	377.47	377.52	377.49	376.82	376.83	376.54	376.45	376.36	376.30	
28	376.43	377.36	377.30	377.38	377.56	377.63	376.81	376.81	376.53	376.45	376.38	376.32	
29	376.43	377.07	377.14	377.43	377.55	377.76	376.80	376.80	376.52	376.45		376.34	
30	376.45	377.08	377.10	377.54	377.47	378.01	376.80	376.78	376.52	376.45		376.36	
31		376.98		377.41	377.36		377.02		376.51	376.45		376.35	
Mean	376.35	376.80	377.09	377.20	377.56	377.66	377.24	377.07	376.63	376.47	376.40	376.32	
Max	376.45	377.36	377.71	377.65	378.53	378.11	378.65	377.43	376.77	376.51	376.45	376.38	378.65
Min	376.25	376.45	376.80	376.89	377.21	377.29	376.80	376.78	376.51	376.45	376.36	376.28	376.25

Annual Max Momentary Gage Height 379.28 M (MSL), at 8.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 376.10 M (MSL), River Bed 375.70 M (MSL)
Left Bank Elevation 383.00 M (MSL)
Right Bank Elevation 384.01 M (MSL), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.18	3.00	5.56	14.60	12.28	42.72	8.92	1.30	0.21	0.15	0.08	
2	0.00	0.16	2.30	4.60	11.96	18.20	97.90	13.00	1.20	0.21	0.15	0.07	
3	0.00	0.15	4.12	4.12	10.68	26.64	52.32	9.40	1.10	0.21	0.15	0.05	
4	0.00	0.16	3.16	4.84	71.80	30.00	33.12	8.92	1.00	0.21	0.14	0.05	
5	0.00	3.96	2.02	3.96	32.60	25.68	30.00	16.20	0.90	0.21	0.13	0.04	
6	0.00	0.54	1.60	4.60	35.76	19.40	41.44	17.40	0.70	0.20	0.12	0.04	
7	0.00	0.30	2.02	11.96	23.82	25.20	26.16	17.80	0.60	0.20	0.11	0.04	
8	0.00	1.00	3.96	13.00	21.06	23.82	20.20	11.00	0.54	0.20	0.10	0.03	
9	0.00	0.51	3.48	12.60	25.20	20.60	17.00	8.92	0.54	0.19	0.10	0.03	
10	0.00	0.33	3.32	7.24	20.20	20.20	17.40	9.16	0.51	0.19	0.10	0.03	
11	0.00	0.57	4.12	6.04	17.40	20.20	12.28	8.92	0.48	0.18	0.10	0.02	
12	0.00	0.54	4.44	6.04	15.80	17.80	10.04	10.36	0.45	0.17	0.10	0.02	
13	0.00	1.74	6.28	4.84	21.06	13.00	8.44	8.92	0.42	0.16	0.10	0.02	
14	0.00	2.86	7.48	4.12	34.68	27.60	7.24	7.24	0.39	0.16	0.10	0.01	
15	0.06	1.74	6.52	3.64	31.04	43.36	6.76	6.28	0.36	0.15	0.10	0.01	
16	0.08	1.50	7.24	3.16	22.44	39.68	5.80	5.56	0.33	0.15	0.09	0.01	
17	0.10	0.60	7.00	2.86	16.60	40.80	5.08	4.84	0.33	0.15	0.09	0.00	
18	0.10	1.40	8.92	13.40	13.80	47.20	4.44	4.44	0.33	0.15	0.09	0.00	
19	0.11	5.56	8.68	22.90	11.64	32.60	4.12	4.12	0.33	0.15	0.09	0.00	
20	0.11	5.80	7.48	27.60	9.72	29.04	3.80	3.64	0.30	0.15	0.08	0.00	
21	0.11	5.56	6.76	16.60	11.64	54.28	3.48	3.32	0.29	0.15	0.08	0.00	
22	0.12	3.48	5.32	11.00	11.32	39.12	3.00	3.00	0.28	0.15	0.08	0.00	
23	0.10	2.44	15.80	10.04	26.16	25.68	2.72	2.86	0.27	0.15	0.08	0.00	
24	0.11	2.02	23.36	9.72	87.04	30.52	2.44	2.72	0.27	0.15	0.08	0.00	
25	0.12	1.74	30.52	9.16	49.76	32.60	2.44	2.58	0.26	0.15	0.07	0.00	
26	0.13	1.74	18.20	14.60	31.04	21.98	2.02	2.30	0.25	0.15	0.06	0.00	
27	0.13	1.74	10.68	19.40	21.52	20.20	1.88	2.02	0.24	0.15	0.06	0.00	
28	0.13	15.00	12.60	15.80	23.36	26.64	1.74	1.74	0.23	0.15	0.08	0.02	
29	0.13	6.28	7.96	17.80	22.90	33.12	1.60	1.60	0.22	0.15		0.04	
30	0.15	6.52	7.00	22.44	19.40	47.84	1.60	1.40	0.22	0.15		0.06	
31		4.28		17.00	15.00		5.08		0.21	0.15		0.05	
Total	1.79	80.40	235.34	330.64	781.00	865.28	474.26	208.58	14.85	5.25	2.78	0.72	3000.89 CMSDAY
Mean	0.06	2.59	7.84	10.67	25.19	28.84	15.30	6.95	0.48	0.17	0.10	0.02	8.22 CMS
Max	0.15	15.00	30.52	27.60	87.04	54.28	97.90	17.80	1.30	0.21	0.15	0.08	97.90 CMS
Min	0.00	0.15	1.60	2.86	9.72	12.28	1.60	1.40	0.21	0.15	0.06	0.00	0.00 CMS
Runoff	0.155	6.947	20.333	28.567	67.478	74.760	40.976	18.021	1.283	0.454	0.240	0.062	259.277 MCM

Momentary Peak 170.92 CMS, at 379.28 M (MSL), at 8.00 Hours, on Oct 2, 1996
Runoff Yield 64.23 Liters/Second/Square KM, Momentary Peak Yield 1335.313 Liters/Second/Square KM

WATER YEAR 1996

NAKHON NAYOK RIVER BASIN

Khlong Ban Na at Ban Cha Om, Saraburi (Ny.6)

Location — Lat. 14°-24′-34″ N., Long. 101°-07′-30″ E., on right bank at the bridge of Ban Cha Om-Ban Kariang Kho Ma road, Tambon Cha Om, Amphoe Kaeng Khoi, Saraburi.

Drainage Area — 116 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 50 meters from the top staff gage.
- Elevation — +4.405 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 — 1988 to date.

Rating Operation

- Period of Rating — 1988 to date.
- Rated by Float — -
- Rated by Current Meter — 1988 to date.

Stability of Channel Regimes — Fairly stable.

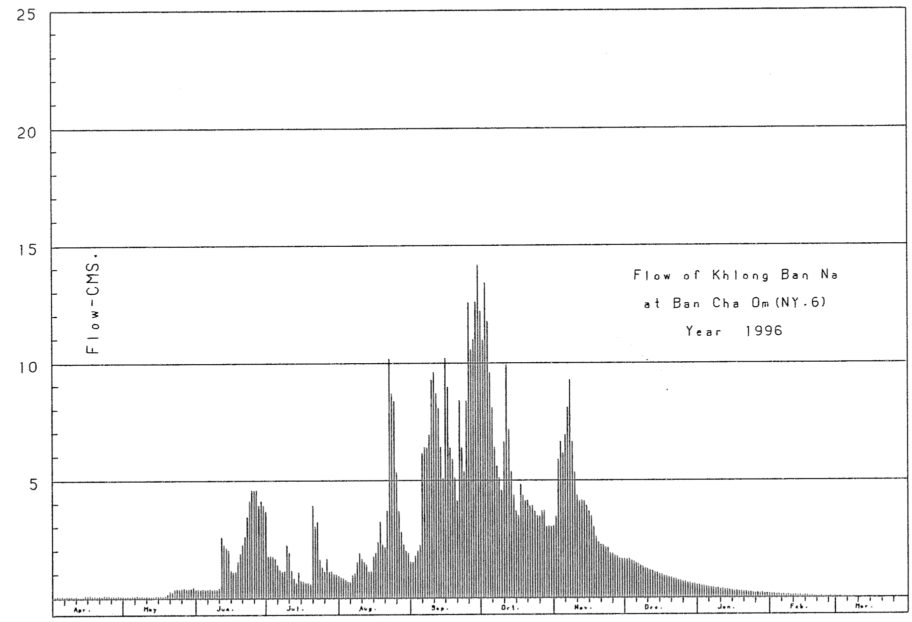
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Flow effected by the local weir during Dec.1,96-Mar.31,97 discharge estimated by recession equation. Stage-discharge relation defined by 25 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.09	1.09	1.39	1.65	1.54	1.63	2.02	1.75	1.64	1.57	1.53	1.48	
2	1.09	1.09	1.39	1.65	1.53	1.65	2.08	1.85	1.64	1.57	1.53	1.48	
3	1.09	1.09	1.40	1.65	1.52	1.67	2.04	1.88	1.62	1.57	1.50	1.46	
4	1.09	1.09	1.39	1.64	1.50	1.69	1.98	1.86	1.62	1.57	1.50	1.46	
5	1.09	1.10	1.39	1.62	1.50	1.86	1.93	1.89	1.62	1.57	1.50	1.46	
6	1.09	1.10	1.39	1.60	1.56	1.87	1.87	1.93	1.60	1.57	1.50	1.46	
7	1.09	1.10	1.38	1.59	1.57	1.87	1.84	1.97	1.65	1.57	1.50	1.45	
8	1.08	1.09	1.38	1.59	1.63	1.89	1.82	1.88	1.65	1.57	1.50	1.45	
9	1.08	1.09	1.39	1.69	1.66	1.97	1.80	1.83	1.65	1.57	1.50	1.44	
10	1.08	1.09	1.41	1.66	1.64	1.98	1.88	1.79	1.64	1.57	1.49	1.44	
11	1.08	1.09	1.71	1.60	1.63	1.95	1.99	1.78	1.64	1.57	1.48	1.44	
12	1.08	1.09	1.69	1.53	1.62	1.93	1.90	1.78	1.63	1.57	1.48	1.44	
13	1.08	1.09	1.68	1.49	1.59	1.87	1.83	1.78	1.63	1.57	1.48	1.44	
14	1.12	1.09	1.67	1.58	1.59	1.82	1.79	1.77	1.63	1.57	1.48	1.44	
15	1.13	1.09	1.60	1.51	1.65	2.00	1.76	1.76	1.62	1.55	1.48	1.44	
16	1.13	1.10	1.58	1.50	1.66	1.96	1.75	1.75	1.62	1.55	1.48	1.44	
17	1.11	1.10	1.59	1.49	1.70	1.87	1.81	1.73	1.62	1.50	1.48	1.44	
18	1.10	1.10	1.63	1.48	1.74	1.85	1.79	1.71	1.62	1.48	1.48	1.44	
19	1.10	1.20	1.66	1.47	1.69	1.82	1.78	1.70	1.62	1.48	1.48	1.44	
20	1.10	1.30	1.69	1.77	1.68	1.78	1.78	1.69	1.62	1.48	1.48	1.44	
21	1.10	1.28	1.71	1.73	1.76	1.94	1.77	1.69	1.62	1.48	1.48	1.44	
22	1.12	1.40	1.75	1.74	2.00	1.87	1.77	1.68	1.62	1.48	1.48	1.44	
23	1.12	1.40	1.78	1.64	1.95	1.83	1.76	1.68	1.62	1.48	1.48	1.44	
24	1.11	1.40	1.80	1.61	1.94	1.94	1.75	1.66	1.62	1.48	1.48	1.44	
25	1.11	1.40	1.80	1.59	1.83	2.06	1.75	1.66	1.62	1.48	1.48	1.45	
26	1.10	1.41	1.80	1.64	1.76	2.01	1.76	1.65	1.62	1.48	1.48	1.45	
27	1.10	1.40	1.77	1.59	1.72	2.02	1.76	1.65	1.62	1.48	1.48	1.45	
28	1.10	1.40	1.78	1.59	1.69	2.06	1.73	1.64	1.60	1.48	1.48	1.41	
29	1.09	1.41	1.77	1.57	1.67	2.10	1.73	1.64	1.60	1.52		1.40	
30	1.09	1.42	1.76	1.56	1.66	2.05	1.73	1.64	1.57	1.53		1.40	
31		1.40		1.55	1.63		1.73		1.57	1.53		1.40	
Mean	1.10	1.21	1.60	1.60	1.67	1.89	1.83	1.76	1.62	1.53	1.49	1.44	
Max	1.13	1.42	1.80	1.77	2.00	2.10	2.08	1.97	1.65	1.57	1.53	1.48	2.10
Min	1.08	1.09	1.38	1.47	1.50	1.63	1.73	1.64	1.57	1.48	1.48	1.40	1.08

Annual Max Momentary Gage Height 2.10 M (A.D), at 6.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.61 M (A.D)
Left Bank Elevation 5.18 M (A.D)
Right Bank Elevation 5.17 M (A.D), Drainage Area 116 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.090	0.090	0.390	1.800	0.900	1.560	11.000	3.500	1.680	0.560	0.180	0.060	
2	0.090	0.090	0.390	1.800	0.850	1.800	13.400	5.900	1.680	0.540	0.170	0.060	
3	0.090	0.090	0.400	1.800	0.800	2.040	11.800	6.680	1.620	0.520	0.170	0.060	
4	0.090	0.090	0.390	1.680	0.700	2.280	9.600	6.160	1.560	0.500	0.160	0.060	
5	0.090	0.100	0.390	1.440	0.700	6.160	8.100	6.940	1.510	0.480	0.150	0.060	
6	0.090	0.100	0.390	1.200	1.000	6.420	6.420	8.100	1.450	0.470	0.150	0.050	
7	0.090	0.100	0.380	1.150	1.050	6.420	5.640	9.300	1.400	0.450	0.140	0.050	
8	0.080	0.090	0.380	1.150	1.560	6.940	5.120	6.680	1.350	0.430	0.140	0.050	
9	0.080	0.090	0.390	2.280	1.920	9.300	4.600	5.380	1.300	0.420	0.130	0.050	
10	0.080	0.090	0.430	1.920	1.680	9.600	6.680	4.380	1.250	0.400	0.130	0.050	
11	0.080	0.090	2.620	1.200	1.560	8.700	9.900	4.160	1.210	0.390	0.120	0.040	
12	0.080	0.090	2.280	0.850	1.440	8.100	7.200	4.160	1.160	0.370	0.120	0.040	
13	0.080	0.090	2.160	0.670	1.150	6.420	5.380	4.160	1.120	0.360	0.120	0.040	
14	0.120	0.090	2.040	1.100	1.150	5.120	4.380	3.940	1.080	0.350	0.110	0.040	
15	0.130	0.090	1.200	0.750	1.800	10.200	3.720	3.720	1.040	0.330	0.110	0.040	
16	0.130	0.100	1.100	0.700	1.920	9.000	3.500	3.500	1.010	0.320	0.100	0.040	
17	0.110	0.100	1.150	0.670	2.400	6.420	4.860	3.060	0.970	0.310	0.100	0.040	
18	0.100	0.100	1.560	0.640	3.280	5.900	4.380	2.620	0.930	0.300	0.100	0.030	
19	0.100	0.200	1.920	0.610	2.280	5.120	4.160	2.400	0.900	0.290	0.090	0.030	
20	0.100	0.300	2.280	3.940	2.160	4.160	4.160	2.280	0.870	0.280	0.090	0.030	
21	0.100	0.280	2.620	3.060	3.720	8.400	3.940	2.280	0.840	0.270	0.080	0.030	
22	0.120	0.400	3.500	3.280	10.200	6.420	3.940	2.160	0.810	0.260	0.080	0.030	
23	0.120	0.400	4.160	1.680	8.700	5.380	3.720	2.160	0.780	0.250	0.080	0.030	
24	0.110	0.400	4.600	1.320	8.400	8.400	3.500	1.920	0.750	0.240	0.080	0.030	
25	0.110	0.400	4.600	1.150	5.380	12.600	3.500	1.920	0.720	0.230	0.070	0.030	
26	0.100	0.430	4.600	1.680	3.720	10.600	3.720	1.800	0.700	0.220	0.070	0.030	
27	0.100	0.400	3.940	1.150	2.840	11.000	3.720	1.800	0.670	0.220	0.070	0.020	
28	0.100	0.400	4.160	1.150	2.280	12.600	3.060	1.680	0.650	0.210	0.070	0.020	
29	0.090	0.430	3.940	1.050	2.040	14.200	3.060	1.680	0.620	0.200		0.020	
30	0.090	0.460	3.720	1.000	1.920	12.200	3.060	1.680	0.600	0.190		0.020	
31		0.400		0.950	1.560		3.060		0.580	0.190		0.020	
Total	2.940	6.580	62.080	44.820	81.060	223.460	172.280	116.100	32.810	10.550	3.180	1.200	757.060 CMSDAY
Mean	0.098	0.212	2.069	1.446	2.615	7.449	5.557	3.870	1.058	0.340	0.114	0.039	2.074 CMS
Max	0.130	0.460	4.600	3.940	10.200	14.200	13.400	9.300	1.680	0.560	0.180	0.060	14.200 CMS
Min	0.080	0.090	0.380	0.610	0.700	1.560	3.060	1.680	0.580	0.190	0.070	0.020	0.020 CMS
Runoff	0.254	0.569	5.364	3.872	7.004	19.307	14.885	10.031	2.835	0.912	0.275	0.104	65.410 MCM

Momentary Peak 14.20 CMS, at 2.10 M (A.D), at 6.00 Hours, on Oct 2, 1996
Runoff Yield 17.88 Liters/Second/Square KM, Momentary Peak Yield 122.414 Liters/Second/Square KM

WATER YEAR 1996

LOPBURI RIVER BASIN

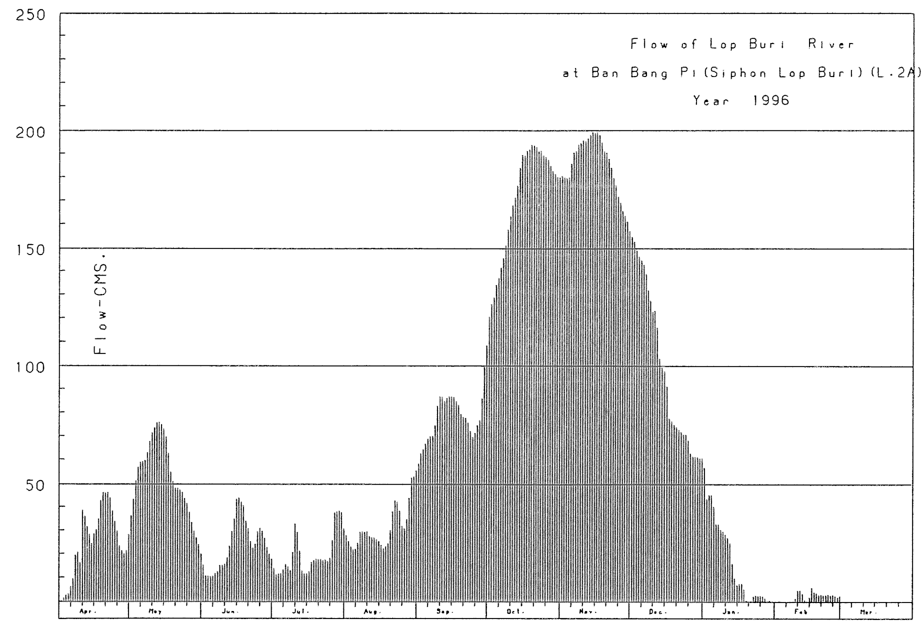
Lop Buri River at Siphon Lop Buri, Lop Buri (L.2A)

Location	Lat. 14°-47'-37" N., Long., 100°-36'-34" E., on left bank about 100 meters downstream from Wat Pho Ngam (L.2), Amphoe Muang, Lop Buri.
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	On left bank near the top staff gage.
Elevation	+10.978 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	1962-1986, 1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Mani Chonlakhan Regulator. Stage-discharge relation defined by 47 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.13	4.15	3.27	3.22	3.84	4.88	6.49	7.48	7.14	4.83	2.01	0.06	
2	2.29	4.38	3.04	3.06	3.73	5.00	6.60	7.47	7.11	4.38	2.01	0.19	
3	2.40	4.65	3.02	3.10	3.64	5.06	6.67	7.47	7.06	4.45	2.01	0.20	
4	2.49	4.83	3.02	3.10	3.58	5.12	6.78	7.47	7.02	4.44	2.00	0.06	
5	2.76	4.90	3.04	3.19	3.60	5.19	6.85	7.54	7.00	4.28	2.02	0.04	
6	2.96	4.90	3.10	3.30	3.70	5.21	6.94	7.59	6.96	4.02	1.84	0.04	
7	3.49	4.92	3.15	3.24	3.89	5.22	7.01	7.60	6.89	4.01	1.78	0.03	
8	3.54	5.02	3.27	3.17	3.89	5.35	7.09	7.63	6.73	3.93	1.85	0.02	
9	3.34	5.15	3.28	3.53	3.89	5.57	7.18	7.64	6.64	3.89	2.26	0.02	
10	4.22	5.25	3.30	4.03	3.89	5.68	7.26	7.65	6.53	3.84	2.62	0.02	
11	4.14	5.32	3.42	3.88	3.82	5.67	7.32	7.65	6.54	3.79	2.61	0.09	
12	3.98	5.38	3.65	3.57	3.79	5.63	7.37	7.66	6.39	3.69	2.50	0.08	
13	3.84	5.38	3.89	3.15	3.80	5.66	7.43	7.68	6.08	3.31	2.18	0.03	
14	3.69	5.36	4.10	3.10	3.76	5.68	7.52	7.69	5.98	2.96	2.03	0.02	
15	3.85	5.30	4.39	3.09	3.74	5.68	7.58	7.69	5.94	2.79	2.32	0.01	
16	3.93	5.21	4.40	3.15	3.66	5.67	7.58	7.69	5.79	2.81	2.70	0.01	
17	4.10	5.00	4.35	3.33	3.61	5.63	7.60	7.68	5.43	2.83	2.56	0.02	
18	4.37	4.77	4.29	3.38	3.64	5.58	7.61	7.64	5.39	2.64	2.49	0.08	
19	4.48	4.63	4.07	3.40	3.70	5.48	7.63	7.60	5.36	2.10	2.45	0.17	
20	4.48	4.55	3.94	3.40	3.91	5.44	7.63	7.59	5.32	2.00	2.42	0.08	
21	4.48	4.54	3.72	3.39	4.20	5.43	7.62	7.56	5.29	2.09	2.42	0.07	
22	4.41	4.52	3.62	3.38	4.37	5.38	7.60	7.52	5.27	2.36	2.43	0.05	
23	4.21	4.48	3.68	3.38	4.34	5.28	7.60	7.47	5.24	2.38	2.43	0.03	
24	4.06	4.40	3.90	3.36	4.22	5.20	7.58	7.43	5.23	2.38	2.42	0.02	
25	3.90	4.32	3.95	3.42	3.98	5.25	7.57	7.37	5.16	2.36	2.41	0.02	
26	3.65	4.19	3.90	3.75	3.95	5.34	7.56	7.34	5.01	2.34	2.36	0.06	
27	3.57	4.05	3.79	4.19	4.10	5.41	7.53	7.29	4.97	2.26	2.32	0.05	
28	3.50	3.90	3.63	4.20	4.40	5.66	7.50	7.26	4.96	2.08	2.35	0.03	
29	3.57	3.80	3.50	4.22	4.69	6.00	7.49	7.23	4.96	2.10		0.02	
30	3.84	3.67	3.40	4.19	4.70	6.21	7.47	7.17	4.94	2.10		0.02	
31		3.51		3.94	4.78		7.47		4.94	2.01		0.02	
Mean	3.66	4.66	3.64	3.48	3.96	5.45	7.33	7.52	5.91	3.08	2.28	0.05	
Max	4.48	5.38	4.40	4.22	4.78	6.21	7.63	7.69	7.14	4.83	2.70	0.20	7.69
Min	2.13	3.51	3.02	3.06	3.58	4.88	6.49	7.17	4.94	2.00	1.78	0.01	0.01

Annual Max Momentary Gage Height 7.63 M (MSL), at 6.00 Hours, on Oct 19, 1996
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 0.98 M (MSL)
Left Bank Elevation 11.69 M (MSL)
Right Bank Elevation 6.73 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	36.75	15.45	14.41	28.42	58.84	121.10	180.93	154.93	57.19	0.03	0.00	
2	1.72	43.48	11.06	11.37	25.65	62.90	126.12	180.07	152.73	43.48	0.03	0.00	
3	2.65	51.60	10.75	12.00	23.46	64.97	129.31	180.07	149.20	45.53	0.03	0.00	
4	3.42	57.19	10.75	12.00	22.04	67.04	134.33	180.07	146.40	45.24	0.00	0.00	
5	6.70	59.50	11.06	13.80	22.50	69.46	137.52	186.13	145.00	40.55	0.06	0.00	
6	9.81	59.50	12.00	16.07	24.90	70.16	141.88	190.47	142.92	33.06	0.00	0.00	
7	19.99	60.18	13.00	14.83	29.70	70.51	145.70	191.33	139.34	32.78	0.00	0.00	
8	21.12	63.59	15.45	13.40	29.70	75.12	151.30	193.93	132.05	30.72	0.00	0.00	
9	16.89	68.08	15.65	20.89	29.70	83.11	157.87	194.80	127.94	29.70	1.48	0.00	
10	38.79	71.58	16.07	33.34	29.70	87.24	163.73	195.67	122.93	28.42	4.84	0.00	
11	36.46	74.06	18.55	29.44	27.91	86.86	168.13	195.67	123.38	27.15	4.72	0.00	
12	31.99	76.19	23.70	21.81	27.15	85.34	171.80	196.53	116.55	24.66	3.50	0.00	
13	28.42	76.19	29.70	13.00	27.40	86.48	176.60	198.27	103.34	16.27	0.86	0.00	
14	24.66	75.48	35.30	12.00	26.40	87.24	184.40	199.13	99.29	9.81	0.09	0.00	
15	28.67	73.35	43.77	11.84	25.90	87.24	189.60	199.13	97.67	7.15	1.97	0.00	
16	30.72	70.16	44.07	13.00	23.94	86.86	189.60	199.13	91.60	7.46	5.80	0.00	
17	35.30	62.90	42.60	16.69	22.74	85.34	191.33	198.27	77.99	7.77	4.16	0.00	
18	43.19	55.28	40.84	17.72	23.46	83.47	192.20	194.80	76.54	5.08	3.42	0.00	
19	46.41	50.99	34.46	18.13	24.90	79.82	193.93	191.33	75.48	0.30	3.08	0.00	
20	46.41	48.53	30.97	18.13	30.21	78.36	193.93	190.47	74.06	0.00	2.82	0.00	
21	46.41	48.23	25.40	17.93	38.20	77.99	193.07	187.87	73.00	0.27	2.82	0.00	
22	44.36	47.61	22.98	17.72	43.19	76.19	191.33	184.40	72.29	2.31	2.91	0.00	
23	38.49	46.41	24.42	17.72	42.31	72.64	191.33	180.07	71.22	2.48	2.91	0.00	
24	34.18	44.07	29.95	17.31	38.79	69.80	189.60	176.60	70.87	2.48	2.82	0.00	
25	29.95	41.72	31.23	18.55	31.99	71.58	188.73	171.80	68.42	2.31	2.74	0.00	
26	23.70	37.91	29.95	26.15	31.23	74.77	187.87	169.60	63.25	2.14	2.31	0.00	
27	21.81	33.90	27.15	37.91	35.30	77.26	185.27	165.93	61.88	1.48	1.97	0.00	
28	20.20	29.95	23.22	38.20	44.07	86.48	182.67	163.73	61.54	0.24	2.22	0.00	
29	21.81	27.40	20.20	38.79	52.83	100.10	181.80	161.53	61.54	0.30		0.00	
30	28.42	24.18	18.13	37.91	53.13	108.63	180.07	157.13	60.86	0.30		0.00	
31		20.43		30.97	55.59		180.07		60.86	0.03		0.00	
Total	783.16	1636.39	727.83	633.03	992.41	2371.80	5312.19	5554.86	3075.07	506.66	57.59	0.00	21650.99 CMSDAY
Mean	26.11	52.79	24.26	20.42	32.01	79.06	171.36	185.16	99.20	16.34	2.06	0.00	59.32 CMS
Max	46.41	76.19	44.07	38.79	55.59	108.63	193.93	199.13	154.93	57.19	5.80	0.00	199.13 CMS
Min	0.51	20.43	10.75	11.37	22.04	58.84	121.10	157.13	60.86	0.00	0.00	0.00	0.00 CMS
Runoff	67.665	141.384	62.885	54.694	85.744	204.924	458.973	479.940	265.686	43.775	4.976	0.000	1870.646 MCM

Momentary Peak 193.93 CMS, at 7.63 M (MSL), at 6.00 Hours, on Oct 19, 1996
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

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 Phra Prong and Lam Hanuman, Amphoe Kabin Buri, Prachin Buri.

Drainage Area — 7,502 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(M.S.L.)

Bench Mark — B.M.-H.D.

- Location — On left bank about 5 meters from the top staff gage.
- Elevation — +11.410 m. (M.S.L.)

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

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

Period of Available Gage Records — 1941 to date.

Rating Operation

- Period of Rating — 1941-1943, 1945, 1964 to date.
- Rated by Float — -
- Rated by Current Meter — 1941-1943, 1945, 1964 to date.

Stability of Channel Regimes — Fairly stable.

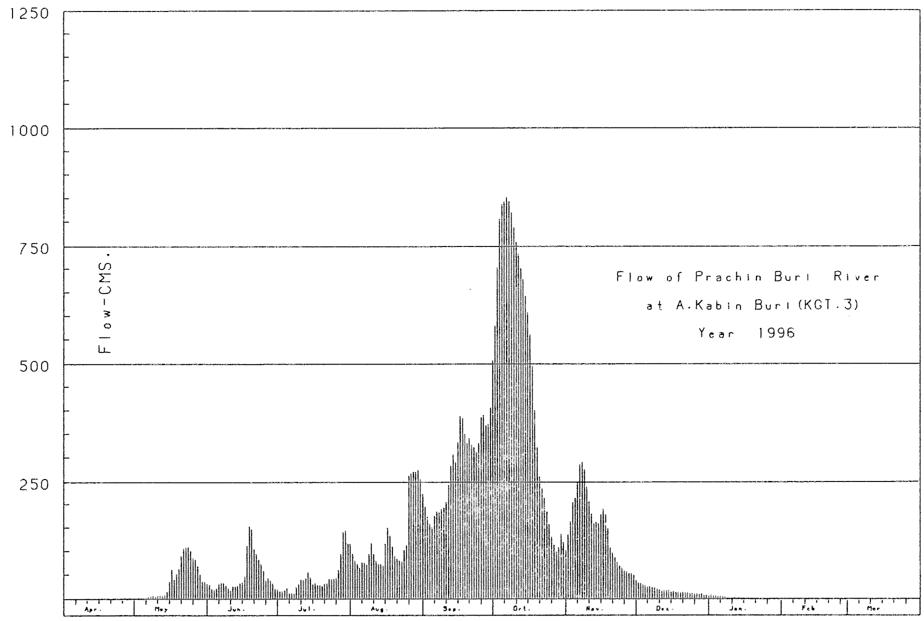
Overbank Flow Conditions — Overbank flow starts at elevation +9.47 m.(M.S.L.),records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 23 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.41	1.65	1.24	3.27	5.07	9.33	4.05	1.79	0.82	0.33	0.25	
2	0.24	0.43	1.43	1.15	2.91	4.69	10.08	4.53	1.74	0.80	0.34	0.22	
3	0.24	0.47	1.29	1.32	2.77	4.45	10.65	5.20	1.68	0.74	0.35	0.20	
4	0.24	0.47	1.47	1.43	2.54	4.31	10.82	5.38	1.63	0.74	0.34	0.20	
5	0.24	0.48	1.68	1.04	2.87	4.75	10.84	5.90	1.57	0.72	0.32	0.19	
6	0.24	0.54	1.79	1.00	2.80	4.88	10.89	6.46	1.57	0.72	0.31	0.18	
7	0.24	0.68	1.75	1.02	2.75	4.87	10.85	6.55	1.53	0.58	0.33	0.17	
8	0.24	0.74	1.66	1.48	3.26	4.96	10.73	6.33	1.46	0.53	0.32	0.16	
9	0.23	0.68	1.42	1.73	3.77	5.03	10.56	5.75	1.41	0.54	0.32	0.15	
10	0.23	0.70	1.31	1.96	3.29	5.21	10.39	5.25	1.30	0.50	0.35	0.15	
11	0.23	0.73	1.57	1.91	2.92	5.84	10.24	4.79	1.24	0.47	0.33	0.14	
12	0.26	0.74	1.59	2.03	2.76	6.43	10.08	4.47	1.23	0.46	0.29	0.14	
13	0.28	0.80	1.59	2.30	2.74	6.76	9.93	4.50	1.30	0.49	0.29	0.14	
14	0.28	1.18	1.76	2.04	2.70	6.54	9.72	4.46	1.28	0.47	0.28	0.14	
15	0.26	1.79	1.77	1.72	3.73	7.13	9.49	4.77	1.16	0.44	0.28	0.14	
16	0.25	2.45	2.13	1.75	4.30	7.82	9.20	4.98	1.14	0.43	0.28	0.14	
17	0.25	1.96	3.65	1.68	4.03	7.79	8.72	4.80	1.12	0.42	0.27	0.13	
18	0.25	2.26	4.38	1.64	3.64	7.34	7.93	4.27	1.10	0.41	0.24	0.13	
19	0.25	2.48	4.24	1.63	3.16	7.11	6.98	3.59	1.09	0.39	0.23	0.13	
20	0.27	3.19	3.53	1.69	3.04	7.23	6.08	3.32	1.11	0.37	0.23	0.12	
21	0.29	3.52	3.29	1.77	2.92	7.04	5.71	3.12	1.07	0.37	0.23	0.12	
22	0.34	3.61	3.02	1.97	2.90	6.99	5.35	2.84	1.05	0.36	0.31	0.12	
23	0.36	3.59	2.74	1.98	3.45	6.86	4.89	2.68	1.03	0.35	0.30	0.11	
24	0.37	3.46	2.42	1.97	3.69	7.09	4.41	2.54	0.99	0.35	0.30	0.11	
25	0.39	3.08	1.92	2.05	6.14	7.81	3.99	2.42	0.98	0.35	0.30	0.10	
26	0.42	2.96	2.01	2.46	6.18	7.84	3.70	2.34	0.96	0.34	0.30	0.10	
27	0.43	2.68	1.93	3.25	6.26	7.59	3.40	2.29	0.93	0.41	0.28	0.10	
28	0.44	2.20	1.72	4.16	6.23	7.61	3.57	2.25	0.93	0.45	0.25	0.12	
29	0.40	1.86	1.42	4.19	6.31	7.99	4.09	2.20	0.85	0.41		0.12	
30	0.40	1.81	1.33	3.75	6.00	8.80	3.77	1.89	0.80	0.39		0.12	
31		1.75		3.71	5.50		3.46		0.78	0.34		0.12	
Mean	0.29	1.73	2.12	2.03	3.83	6.46	7.74	4.13	1.22	0.49	0.30	0.14	
Max	0.44	3.61	4.38	4.19	6.31	8.80	10.89	6.55	1.79	0.82	0.35	0.25	10.89
Min	0.23	0.41	1.29	1.00	2.54	4.31	3.40	1.89	0.78	0.34	0.23	0.10	0.10

Annual Max Momentary Gage Height 10.90 M (MSL), at 6.00 Hours, on Oct 6, 1996
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed -1.33 M (MSL)
Left Bank Elevation 9.85 M (MSL)
Right Bank Elevation 9.46 M (MSL), Drainage Area 7502 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	1.9	29.8	17.7	96.3	198.2	582.8	137.0	35.5	8.0	0.9	0.2	
2	0.2	2.2	22.8	15.5	81.4	175.4	704.4	165.8	33.4	7.6	1.0	0.1	
3	0.2	2.8	19.0	19.8	75.7	161.0	807.5	206.0	31.0	6.6	1.1	0.0	
4	0.2	2.8	24.0	22.8	66.2	152.6	840.0	216.8	29.0	6.6	1.0	0.0	
5	0.2	2.9	31.0	13.0	79.8	179.0	844.0	248.8	26.9	6.3	0.8	0.0	
6	0.2	3.8	35.5	12.1	76.9	186.8	854.0	286.7	26.9	6.3	0.6	0.0	
7	0.2	5.7	33.8	12.6	74.9	186.2	846.0	293.2	25.7	4.3	0.9	0.0	
8	0.2	6.6	30.2	24.2	95.9	191.6	822.7	277.6	23.7	3.6	0.8	0.0	
9	0.1	5.7	22.6	33.0	120.3	195.8	790.8	239.3	22.3	3.8	0.8	0.0	
10	0.1	6.0	19.5	42.5	97.2	206.6	760.2	209.0	19.2	3.2	1.1	0.0	
11	0.1	6.5	26.9	40.4	81.8	245.0	733.2	181.4	17.7	2.8	0.9	0.0	
12	0.3	6.6	27.5	45.3	75.3	284.6	704.4	162.2	17.5	2.6	0.4	0.0	
13	0.4	7.6	27.5	56.4	74.4	308.3	678.8	164.0	19.2	3.1	0.4	0.0	
14	0.4	16.2	34.3	45.7	72.8	292.5	645.2	161.6	18.7	2.8	0.4	0.0	
15	0.3	35.5	34.7	32.6	117.9	335.0	608.4	180.2	15.8	2.4	0.4	0.0	
16	0.2	62.6	49.4	33.8	152.0	389.7	562.0	192.8	15.3	2.2	0.4	0.0	
17	0.2	42.5	113.6	31.0	135.8	386.8	496.6	182.0	14.9	2.1	0.4	0.0	
18	0.2	54.8	156.8	29.4	113.1	351.1	401.6	150.2	14.4	1.9	0.2	0.0	
19	0.2	63.8	148.4	29.0	91.7	333.5	324.2	110.5	14.2	1.7	0.1	0.0	
20	0.4	93.0	107.6	31.4	86.7	342.4	260.6	98.4	14.6	1.4	0.1	0.0	
21	0.4	107.2	97.2	34.7	81.8	328.5	236.8	90.0	13.7	1.4	0.1	0.0	
22	1.0	111.5	85.9	42.9	81.0	324.9	215.0	78.5	13.2	1.3	0.6	0.0	
23	1.3	110.5	74.4	43.3	104.0	315.5	187.4	72.0	12.8	1.1	0.5	0.0	
24	1.4	104.4	61.3	42.9	115.7	332.1	158.6	66.2	11.9	1.1	0.5	0.0	
25	1.7	88.4	40.8	46.1	264.7	388.6	133.4	61.3	11.6	1.1	0.5	0.0	
26	2.1	83.5	44.5	63.0	267.4	391.8	116.2	58.0	11.2	1.0	0.5	0.0	
27	2.2	72.0	41.2	95.5	272.9	370.9	101.8	56.0	10.5	1.9	0.4	0.0	
28	2.4	52.3	32.6	143.6	270.8	372.5	109.6	54.3	10.5	2.5	0.2	0.0	
29	1.8	38.4	22.6	145.4	276.3	408.8	139.4	52.3	8.7	1.9		0.0	
30	1.8	36.3	20.0	119.1	255.2	507.0	120.3	39.6	7.6	1.7		0.0	
31		33.8		116.8	224.0		104.4		7.3	1.0		0.0	
Total	20.6	1267.8	1515.4	1481.5	4079.9	8842.7	14890.3	4491.7	554.9	95.3	16.0	0.3	37256.4 CMSDAY
Mean	0.7	40.9	50.5	47.8	131.6	294.8	480.3	149.7	17.9	3.1	0.6	0.0	102.1 CMS
Max	2.4	111.5	156.8	145.4	276.3	507.0	854.0	293.2	35.5	8.0	1.1	0.2	854.0 CMS
Min	0.1	1.9	19.0	12.1	66.2	152.6	101.8	39.6	7.3	1.0	0.1	0.0	0.0 CMS
Runoff	1.78	109.54	130.93	128.00	352.50	764.01	1286.52	388.08	47.94	8.23	1.38	0.03	3218.95 MCM

Momentary Peak 856.00 CMS, at 10.90 M (MSL), at 6.00 Hours, on Oct 6, 1996
Runoff Yield 13.61 Liters/Second/Square KM, Momentary Peak Yield 114.103 Liters/Second/Square KM

WATER YEAR 1996

PRACHIN BURI RIVER BASIN

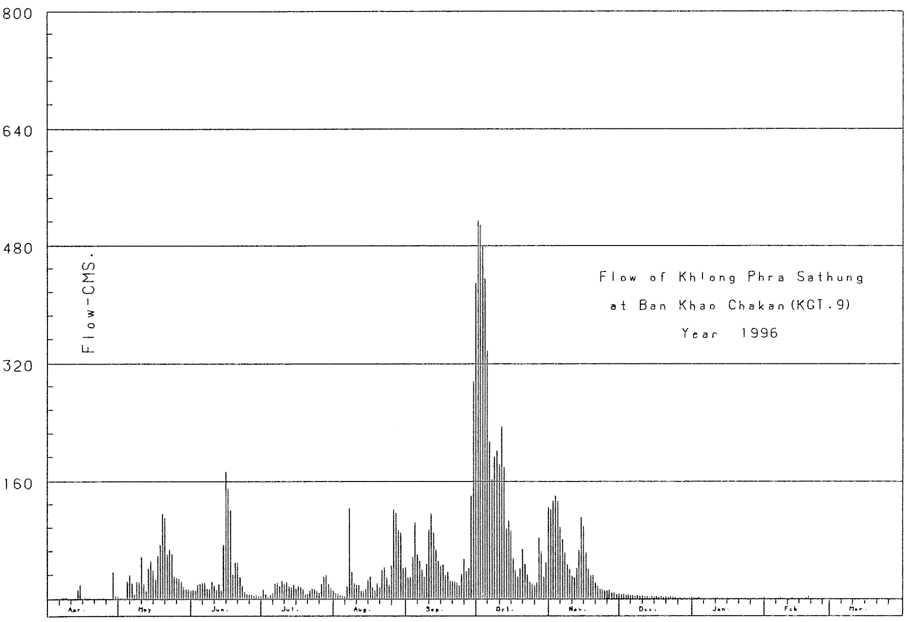
Khlong Phra Sathung at Ban Khao Chakan, Sa Kaeo (Kgt.9)

Location	Lat. 13-40-10 N., Long. 102-04-35 E., on right bank infront of Wat Khao Chakan, Ban Khao Chakan, Amphoe Muang, Sa Kaeo.
Drainage Area	2,279 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	+9.020 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1967-1970, 1972 to date.
Rating Operation	
Period of Rating	1969-1970
Rated by Float	-
Rated by Current Meter	1969-1970
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 9.39 m.(A.D.),records are channel flow only.
General Description	Records good. Flow effected by the local weir during Mar.20-31.97 discharge estimated by recession equation. Stage-discharge relation defined by 37 discharge measurements made in 1996.

Gage Height in Meter (AD.), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.60	1.22	1.25	1.04	2.00	10.39	4.50	0.94	0.57	0.46	0.30	
2	0.33	0.50	1.24	0.97	0.95	1.99	10.30	4.74	0.93	0.56	0.46	0.30	
3	0.32	0.53	1.59	0.66	0.85	2.88	9.96	4.92	0.90	0.56	0.33	0.30	
4	0.30	1.77	1.68	0.79	0.77	4.08	9.40	4.76	0.90	0.53	0.36	0.28	
5	0.25	2.08	1.72	1.06	0.75	2.96	8.08	3.94	0.87	0.48	0.40	0.25	
6	0.45	1.72	1.69	1.68	1.46	2.71	6.21	3.56	0.84	0.45	0.42	0.44	
7	0.64	0.98	1.34	1.70	4.54	2.35	5.34	3.03	0.80	0.42	0.64	0.33	
8	0.53	1.75	1.29	1.52	2.24	2.00	5.87	2.56	0.79	0.40	0.44	0.28	
9	0.44	1.77	1.80	1.85	1.68	2.54	6.02	2.33	0.77	0.48	0.42	0.25	
10	0.35	2.87	1.52	1.65	1.63	3.87	5.71	2.05	0.77	0.54	0.35	0.24	
11	0.38	1.63	1.22	1.74	1.56	4.37	6.56	2.01	0.76	0.46	0.36	0.24	
12	0.53	1.19	1.65	1.51	1.20	3.79	5.63	2.41	0.74	0.44	0.54	0.23	
13	1.27	2.38	1.25	1.40	1.14	3.17	3.92	3.14	0.61	0.48	0.42	0.23	
14	1.57	2.65	3.34	1.63	1.34	2.69	4.15	4.27	0.72	0.49	0.34	0.24	
15	0.49	2.28	5.53	1.36	1.89	2.48	3.83	3.97	0.70	0.46	0.31	0.31	
16	0.59	1.92	5.09	1.48	2.05	2.56	2.80	3.06	0.70	0.48	0.54	0.26	
17	0.51	2.91	4.47	1.46	1.42	2.09	2.31	2.35	0.70	0.46	0.45	0.21	
18	0.49	3.37	2.10	1.28	1.23	2.25	2.04	2.10	0.69	0.43	0.46	0.26	
19	0.45	4.37	2.64	0.94	1.67	1.87	2.36	2.09	0.68	0.43	0.79	0.17	
20	0.43	4.22	2.61	0.94	1.45	1.77	3.20	1.74	0.69	0.42	0.52	0.13	
21	0.36	2.99	2.03	1.18	2.29	1.81	2.58	1.52	0.67	0.43	0.40	0.17	
22	0.42	3.16	1.55	1.36	2.40	1.71	2.11	1.36	0.67	0.44	0.39	0.35	
23	0.46	3.00	1.08	1.25	2.01	1.60	1.79	1.28	0.69	0.43	0.43	0.86	
24	0.38	2.03	0.98	1.21	1.62	2.13	1.65	1.22	0.56	0.43	0.32	1.12	
25	0.34	1.99	0.93	1.01	2.53	2.79	1.59	1.24	0.55	0.44	0.29	1.29	
26	0.32	1.92	0.87	1.68	4.47	2.27	1.72	1.22	0.54	0.44	0.40	1.36	
27	0.31	1.81	0.80	2.03	4.39	2.38	3.62	1.09	0.52	0.44	0.40	1.43	
28	2.23	1.43	0.84	2.08	3.85	4.90	3.09	1.04	0.48	0.40	0.33	1.49	
29	0.81	1.31	0.77	1.66	3.78	7.50	2.04	0.99	0.49	0.39		1.63	
30	0.65	1.26	0.70	1.34	2.38	9.31	2.62	0.96	0.50	0.59		2.97	
31		1.24		1.18	2.40		4.55		0.64	0.55		3.68	
Mean	0.57	2.05	1.85	1.38	2.03	3.03	4.56	2.51	0.70	0.47	0.43	0.70	
Max	2.23	4.37	5.53	2.08	4.54	9.31	10.39	4.92	0.94	0.59	0.79	3.68	10.39
Min	0.25	0.50	0.70	0.66	0.75	1.60	1.59	0.96	0.48	0.39	0.29	0.13	0.13

Annual Max Momentary Gage Height 10.40 M (AD.), at 6.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 0.00 M (AD.), River Bed -0.31 M (AD.)
Left Bank Elevation 9.60 M (AD.)
Right Bank Elevation 10.99 M (AD.), Drainage Area 2279 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.38	3.00	12.40	13.00	8.80	30.10	515.39	123.00	7.10	2.76	1.95	0.93	
2	1.12	2.20	12.80	7.55	7.25	29.79	508.10	133.80	6.95	2.68	1.95	0.93	
3	1.06	2.44	19.89	3.70	5.92	58.26	480.60	141.94	6.50	2.68	1.12	0.93	
4	0.93	23.88	21.78	5.22	4.98	104.10	436.60	134.70	6.50	2.44	1.31	0.81	
5	0.62	32.66	22.68	9.20	4.75	60.88	337.60	97.89	6.15	2.07	1.57	0.62	
6	1.88	22.68	21.99	21.78	17.20	52.82	214.41	82.01	5.80	1.88	1.69	1.82	
7	3.47	7.70	14.80	22.20	124.80	41.30	163.64	63.19	5.33	1.69	3.47	1.12	
8	2.44	23.40	13.80	18.42	37.78	30.10	193.80	48.02	5.22	1.57	1.82	0.81	
9	1.82	23.88	24.60	25.80	21.78	47.38	202.82	40.66	4.98	2.07	1.69	0.62	
10	1.25	57.94	18.42	21.15	20.73	94.84	184.38	31.70	4.98	2.52	1.25	0.55	
11	1.44	20.73	12.40	23.16	19.26	117.15	235.76	30.42	4.87	1.95	1.31	0.55	
12	2.44	11.80	21.15	18.21	12.00	91.38	179.74	43.22	4.63	1.82	2.52	0.49	
13	13.40	42.26	13.00	16.00	10.80	67.88	97.02	66.86	3.12	2.07	1.69	0.49	
14	19.47	50.90	73.79	20.73	14.80	52.18	107.25	112.65	4.40	2.14	1.19	0.55	
15	2.14	39.06	174.08	15.20	26.76	45.46	93.11	99.19	4.17	1.95	1.00	1.00	
16	2.92	27.62	150.45	17.60	31.70	48.02	55.70	64.18	4.17	2.07	2.52	0.68	
17	2.28	59.23	121.65	17.20	16.40	32.98	40.02	41.30	4.17	1.95	1.88	0.36	
18	2.14	74.91	33.30	13.60	12.60	38.10	31.38	33.30	4.05	1.76	1.95	0.68	
19	1.88	117.15	50.58	7.10	21.57	26.28	41.62	32.98	3.93	1.76	5.22	0.26	
20	1.76	110.40	49.62	7.10	17.00	23.88	68.90	23.16	4.05	1.69	2.36	0.19	
21	1.31	61.87	31.06	11.60	39.38	24.84	48.66	18.42	3.82	1.76	1.57	0.19	
22	1.69	67.54	19.05	15.20	42.90	22.44	33.62	15.20	3.82	1.82	1.50	0.18	
23	1.95	62.20	9.60	13.00	30.42	20.10	24.36	13.60	4.05	1.76	1.76	0.18	
24	1.44	31.06	7.70	12.20	20.52	34.26	21.15	12.40	2.68	1.76	1.06	0.17	
25	1.19	29.79	6.95	8.20	47.06	55.38	19.89	12.80	2.60	1.82	0.87	0.17	
26	1.06	27.62	6.15	21.78	121.65	38.74	22.68	12.40	2.52	1.82	1.57	0.17	
27	1.00	24.84	5.33	31.06	118.05	42.26	84.33	9.80	2.36	1.82	1.57	0.16	
28	37.46	16.60	5.80	32.66	93.97	141.00	65.17	8.80	2.07	1.57	1.12	0.16	
29	5.45	14.20	4.98	21.36	90.97	297.00	31.38	7.85	2.14	1.50		0.16	
30	3.58	13.20	4.17	14.80	42.26	429.58	49.94	7.40	2.20	2.92		0.15	
31		12.80		11.60	42.90		125.25		3.47	2.60		0.15	
Total	121.97	1115.56	983.97	497.38	1126.96	2198.48	4714.27	1562.84	132.80	62.67	50.48	16.23	12583.61 CMSDAY
Mean	4.07	35.99	32.80	16.04	36.35	73.28	152.07	52.09	4.28	2.02	1.80	0.52	34.48 CMS
Max	37.46	117.15	174.08	32.66	124.80	429.58	515.39	141.94	7.10	2.92	5.22	1.82	515.39 CMS
Min	0.62	2.20	4.17	3.70	4.75	20.10	19.89	7.40	2.07	1.50	0.87	0.15	0.15 CMS
Runoff	10.538	96.384	85.015	42.974	97.369	189.949	407.313	135.029	11.474	5.415	4.361	1.402	1087.224 MCM

Momentary Peak 516.20 CMS, at 10.40 M (AD.), at 6.00 Hours, on Oct 1, 1996

Runoff Yield 15.13 Liters/Second/Square KM, Momentary Peak Yield 226.503 Liters/Second/Square KM

WATER YEAR 1996

PRACHIN BURI RIVER BASIN

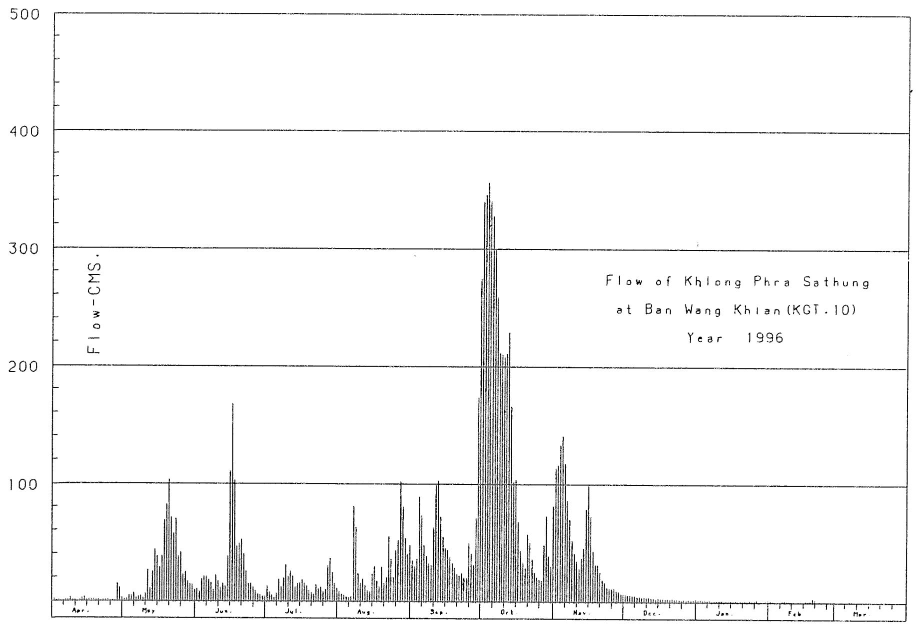
Khlong Phra Sathung at Ban Wang Khian, Sa Kaeo (Kgt.10)

Location	Lat. 13°-48'-29" N., Long. 102°-03'-35" E., on left bank near Saha Charoen Sawmill, Ban Wang Khian, Amphoe Muang, Sa Kaeo.
Drainage Area	2,523 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+23.74 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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +34.27 m.(M.S.L.), records are channel flow only.
General Description	Records good. Flow effected by the local weir during Mar.9-31,97 discharge estimated by recession equation. Stage-discharge relation defined by 88 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.24	25.28	26.13	26.46	25.98	28.03	35.50	31.49	25.77	25.25	25.10	24.93	
2	25.08	25.25	26.14	25.97	25.80	27.71	35.80	31.55	25.74	25.22	25.05	24.92	
3	25.07	25.67	26.93	25.67	25.66	28.12	35.69	32.00	25.70	25.22	24.94	24.93	
4	25.04	25.63	27.10	25.49	25.56	30.75	35.47	32.17	25.70	25.22	24.93	24.93	
5	24.99	25.92	27.06	25.82	25.50	30.11	35.29	31.61	25.67	25.20	24.98	24.93	
6	25.19	25.45	26.94	26.90	25.52	28.82	34.89	30.64	25.60	25.18	25.06	24.97	
7	25.20	25.58	26.66	26.42	30.47	28.30	34.26	29.98	25.58	25.11	25.18	25.15	
8	25.43	25.57	26.11	26.98	29.63	27.86	33.53	29.04	25.54	25.08	25.10	25.06	
9	25.17	25.43	27.05	27.83	27.32	27.81	33.50	28.45	25.53	25.09	25.08	24.95	
10	25.06	26.06	26.75	27.15	26.66	29.63	33.47	28.02	25.53	25.15	25.02	25.10	
11	25.08	27.37	26.25	27.42	26.94	31.03	33.51	27.62	25.51	25.17	24.99	25.35	
12	25.08	26.29	26.67	27.14	26.54	31.16	33.81	28.17	25.49	25.06	25.02	25.47	
13	25.41	27.41	26.59	26.41	26.07	30.09	32.70	28.67	25.41	25.05	25.11	25.54	
14	25.46	28.52	28.34	26.61	26.01	29.24	31.14	30.39	25.37	25.11	24.99	25.63	
15	25.18	28.23	31.16	26.66	27.30	28.68	31.18	31.04	25.42	25.09	24.99	25.68	
16	25.20	27.68	32.65	26.90	27.70	28.61	29.86	30.09	25.39	25.13	25.05	25.84	
17	25.26	28.22	31.07	26.65	26.84	28.22	28.57	28.58	25.38	25.11	25.13	26.10	
18	25.20	29.64	28.75	26.49	26.41	27.93	27.94	27.80	25.38	25.11	25.06	26.17	
19	25.19	30.51	28.90	26.08	27.70	27.63	27.62	27.84	25.36	25.12	25.48	26.26	
20	25.15	31.12	28.99	25.90	26.64	27.28	29.35	27.39	25.36	25.12	25.24	26.38	
21	25.09	30.03	28.41	25.79	27.04	27.16	28.94	26.92	25.35	25.10	25.07	26.37	
22	25.08	29.43	27.41	26.59	29.25	27.35	28.14	26.60	25.32	25.09	25.01	26.36	
23	25.20	29.86	26.64	26.20	28.12	26.96	27.40	26.41	25.31	25.12	25.04	26.35	
24	25.15	28.34	26.63	26.38	27.08	27.05	27.05	26.28	25.28	25.15	24.98	26.34	
25	25.09	28.34	26.38	25.95	28.55	28.90	26.95	26.29	25.25	25.16	24.93	26.34	
26	25.07	27.25	26.04	26.21	29.04	28.41	26.85	26.28	25.27	25.23	24.91	26.34	
27	25.05	27.34	25.79	27.74	31.14	27.82	28.85	26.10	25.23	25.05	25.08	26.33	
28	26.64	26.82	25.69	28.14	30.44	30.04	30.09	26.00	25.24	25.01	25.00	26.32	
29	26.28	26.65	25.61	27.37	29.16	32.84	28.27	25.88	25.24	25.02		26.31	
30	25.40	26.54	25.55	26.64	28.41	34.50	27.73	25.79	25.21	25.13		26.31	
31		26.14		26.29	28.81		30.48		25.30	25.22		26.30	
Mean	25.26	27.34	27.35	26.59	27.53	28.93	31.09	28.50	25.43	25.13	25.05	25.74	
Max	26.64	31.12	32.65	28.14	31.14	34.50	35.80	32.17	25.77	25.25	25.48	26.38	35.80
Min	24.99	25.25	25.55	25.49	25.50	26.96	26.85	25.79	25.21	25.01	24.91	24.92	24.91

Annual Max Momentary Gage Height 35.83 M (MSL), at 9.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 23.74 M (MSL), River Bed 24.55 M (MSL)
Left Bank Elevation 35.80 M (MSL)
Right Bank Elevation 35.76 M (MSL), Drainage Area 2523 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.28	2.49	10.90	13.60	8.80	35.18	340.20	114.47	6.70	2.35	1.50	0.65	
2	1.40	2.35	9.30	8.70	7.00	30.35	346.50	116.45	6.40	2.14	1.25	0.60	
3	1.35	5.70	19.23	5.70	5.60	36.62	356.75	134.00	6.00	2.14	0.70	0.65	
4	1.20	5.20	22.09	4.03	4.64	90.10	340.90	141.15	6.00	2.14	0.65	0.65	
5	0.95	7.80	21.44	7.20	4.10	73.61	328.30	118.49	5.70	2.00	0.90	0.65	
6	1.95	3.68	18.58	19.10	4.28	48.56	300.30	86.70	5.00	1.90	1.30	0.85	
7	2.00	4.55	16.50	13.20	81.75	39.50	258.90	70.88	4.82	1.55	1.90	1.75	
8	3.61	4.82	10.10	20.14	63.53	32.60	212.03	52.52	4.46	1.40	1.50	1.30	
9	1.85	3.54	23.00	32.15	24.68	31.85	210.33	41.95	4.37	1.45	1.40	0.75	
10	1.30	7.30	18.06	22.35	15.98	63.53	208.63	35.02	4.37	1.75	1.10	0.74	
11	1.40	27.06	11.90	26.08	19.62	99.29	210.90	29.00	4.19	1.85	0.95	0.73	
12	1.40	11.30	15.46	22.22	14.48	103.58	229.65	37.42	4.03	1.30	1.10	0.72	
13	3.47	25.94	13.60	13.10	9.70	73.19	167.00	45.86	3.47	1.25	1.55	0.71	
14	3.82	44.42	39.18	15.33	9.10	56.12	102.92	79.77	3.19	1.55	0.95	0.71	
15	1.90	38.70	111.17	15.98	24.40	46.04	104.24	99.62	3.54	1.45	0.95	0.70	
16	2.00	29.75	168.50	19.10	30.20	44.78	68.36	73.19	3.33	1.65	1.25	0.69	
17	2.42	39.50	103.91	15.85	18.32	38.22	44.06	44.24	3.26	1.55	1.65	0.68	
18	2.00	69.62	47.30	13.90	13.10	33.65	33.80	31.70	3.26	1.55	1.30	0.67	
19	1.95	83.40	50.00	9.80	30.20	29.15	29.00	32.30	3.12	1.60	3.96	0.66	
20	1.75	103.91	53.06	8.00	15.72	24.12	58.15	25.66	3.12	1.60	2.84	0.66	
21	1.45	72.14	41.27	6.90	20.92	22.48	50.72	19.36	3.05	1.50	1.35	0.65	
22	1.40	58.53	26.08	15.08	56.30	25.10	36.94	16.76	2.84	1.45	1.05	0.64	
23	2.00	71.09	15.72	11.00	36.62	20.66	25.80	13.10	2.77	1.60	1.20	0.63	
24	1.75	38.70	15.59	12.80	21.44	21.05	21.05	11.80	2.56	1.75	0.90	0.63	
25	1.45	42.46	12.80	8.50	43.70	50.00	19.75	11.90	2.35	1.80	0.65	0.62	
26	1.35	23.14	9.40	11.10	52.52	41.27	18.45	11.80	2.49	2.21	0.55	0.61	
27	1.25	25.94	6.90	30.80	102.92	32.00	49.10	10.00	2.21	1.25	1.40	0.60	
28	15.72	17.28	5.90	36.94	81.00	72.14	73.19	9.00	2.28	1.05	1.00	0.60	
29	11.80	15.46	5.10	25.38	54.68	174.08	39.02	7.80	2.28	1.10		0.59	
30	3.40	14.60	4.55	15.72	41.27	274.50	30.65	6.90	2.07	1.65		0.58	
31		10.30		11.90	48.38		82.00		2.70	2.14		0.58	
Total	81.57	910.67	926.59	491.65	964.95	1763.32	4397.59	1528.81	115.93	51.67	36.80	22.25	11291.80 CMSDAY
Mean	2.72	29.38	30.89	15.86	31.13	58.78	141.86	50.96	3.74	1.67	1.31	0.72	30.94 CMS
Max	15.72	103.91	168.50	36.94	102.92	274.50	356.75	141.15	6.70	2.35	3.96	1.75	356.75 CMS
Min	0.95	2.35	4.55	4.03	4.10	20.66	18.45	6.90	2.07	1.05	0.55	0.58	0.55 CMS
Runoff	7.048	78.682	80.057	42.479	83.372	152.351	379.952	132.089	10.016	4.464	3.180	1.922	975.612 MCM

Momentary Peak 368.33 CMS, at 35.83 M (MSL), at 9.00 Hours, on Oct 2, 1996

Runoff Yield 12.26 Liters/Second/Square KM, Momentary Peak Yield 145.989 Liters/Second/Square KM

WATER YEAR 1996

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng, Sa Kaeo (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 Muang, Sa Kaeo.

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.

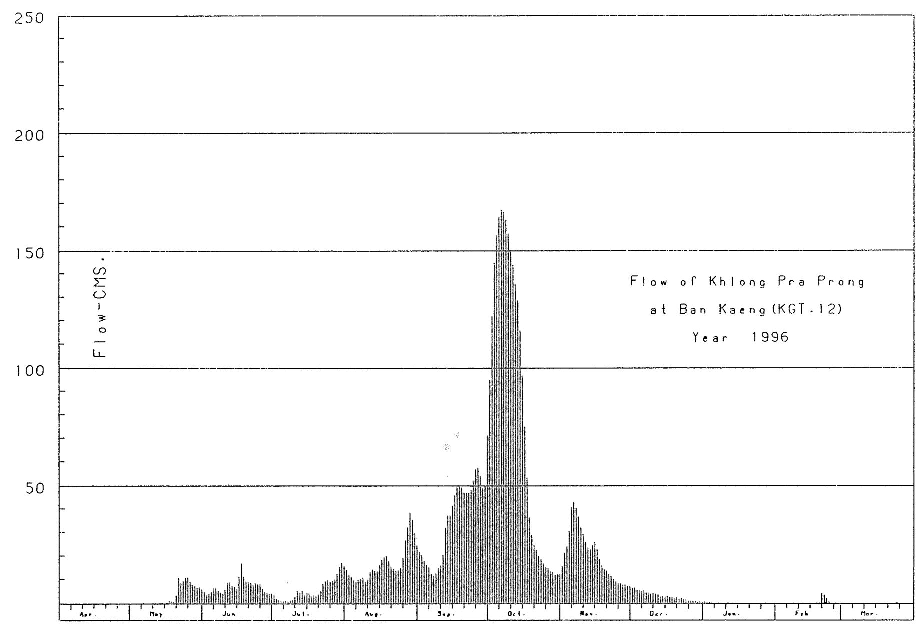
Overbank Flow Conditions — Overbank flow starts at elevation +8.60 m.(A.D.) and is included.

General Description — Records good. Stage-discharge relation defined by 67 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.04	1.14	0.97	2.09	2.73	6.51	2.25	1.35	0.46	0.17	0.18	
2	-0.01	0.04	1.02	0.78	1.94	2.60	7.53	2.68	1.33	0.44	0.17	0.16	
3	-0.01	0.03	1.03	0.63	1.82	2.42	8.34	2.90	1.25	0.39	0.16	0.14	
4	-0.01	0.04	1.18	0.57	1.72	2.25	8.75	3.31	1.20	0.37	0.16	0.12	
5	0.00	0.30	1.34	0.54	1.65	2.19	9.00	3.95	1.19	0.36	0.16	0.12	
6	0.02	0.12	1.33	0.51	1.70	1.95	9.09	4.09	1.21	0.34	0.16	0.12	
7	0.03	0.09	1.24	0.51	1.75	1.85	9.06	3.96	1.14	0.35	0.20	0.11	
8	0.03	0.16	1.10	0.56	1.78	1.98	8.96	3.72	1.09	0.35	0.24	0.09	
9	0.03	0.16	1.07	0.64	1.63	2.13	8.76	3.43	1.08	0.37	0.21	0.09	
10	0.03	0.16	1.24	0.83	1.71	2.26	8.54	3.23	1.07	0.37	0.22	0.08	
11	0.02	0.16	1.61	1.18	2.01	2.60	8.31	3.02	1.07	0.34	0.25	0.08	
12	0.02	0.18	1.60	1.14	2.12	3.42	8.04	2.84	1.00	0.32	0.28	0.07	
13	0.02	0.29	1.46	1.20	2.04	3.73	7.76	2.81	0.92	0.30	0.26	0.06	
14	0.02	0.23	1.35	1.01	2.05	3.76	7.30	2.92	0.90	0.28	0.26	0.05	
15	0.02	0.23	1.30	1.11	2.27	3.99	6.56	3.00	0.90	0.26	0.25	0.03	
16	0.04	0.27	1.83	1.05	2.43	4.25	5.69	2.82	0.90	0.26	0.23	0.02	
17	0.24	0.59	2.34	0.93	2.55	4.46	4.65	2.48	0.88	0.25	0.20	0.02	
18	0.16	0.47	1.82	0.94	2.56	4.49	3.71	2.24	0.84	0.25	0.21	0.01	
19	0.14	0.45	1.66	0.94	2.40	4.42	3.20	2.13	0.83	0.24	0.42	0.07	
20	0.14	0.96	1.61	1.01	2.19	4.32	2.94	2.05	0.81	0.23	1.06	0.03	
21	0.17	1.82	1.59	1.19	2.09	4.28	2.77	1.95	0.76	0.23	1.03	0.02	
22	0.18	1.60	1.49	1.50	2.05	4.31	2.59	1.85	0.77	0.23	0.79	0.02	
23	0.15	1.66	1.54	1.66	2.06	4.36	2.46	1.75	0.70	0.23	0.56	0.02	
24	0.12	1.79	1.53	1.68	2.16	4.60	2.34	1.65	0.64	0.23	0.42	0.00	
25	0.12	1.79	1.50	1.63	2.51	4.84	2.20	1.57	0.59	0.22	0.33	0.00	
26	0.12	1.61	1.33	1.63	3.06	4.88	2.13	1.53	0.54	0.22	0.27	0.00	
27	0.10	1.49	1.14	1.74	3.44	4.71	2.05	1.51	0.55	0.23	0.23	-0.01	
28	0.08	1.41	1.08	1.93	3.82	4.40	1.98	1.48	0.52	0.26	0.20	0.00	
29	0.07	1.36	1.06	2.22	3.64	4.47	1.91	1.43	0.50	0.25		0.04	
30	0.05	1.34	1.04	2.32	3.24	5.51	1.94	1.38	0.47	0.22		0.07	
31		1.28		2.24	2.90		1.93		0.46	0.19		0.08	
Mean	0.07	0.71	1.39	1.19	2.30	3.61	5.39	2.53	0.89	0.29	0.32	0.06	
Max	0.24	1.82	2.34	2.32	3.82	5.51	9.09	4.09	1.35	0.46	1.06	0.18	9.09
Min	-0.01	0.03	1.02	0.51	1.63	1.85	1.91	1.38	0.46	0.19	0.16	-0.01	-0.01

Annual Max Momentary Gage Height 9.10 M (A.D), at 24.00 Hours, on Oct 6, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.48 M (A.D)
Left Bank Elevation 9.62 M (A.D)
Right Bank Elevation 8.59 M (A.D), Drainage Area 1540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.14	5.06	3.62	14.48	22.22	95.36	16.40	6.95	0.88	0.27	0.28	
2	0.09	0.14	3.98	2.48	12.74	20.60	122.41	21.56	6.77	0.82	0.27	0.26	
3	0.09	0.13	4.07	1.65	11.42	18.44	144.62	24.70	6.05	0.67	0.26	0.24	
4	0.09	0.14	5.42	1.35	10.32	16.40	156.85	30.85	5.60	0.61	0.26	0.22	
5	0.10	0.40	6.86	1.20	9.65	15.68	164.60	40.90	5.51	0.58	0.26	0.22	
6	0.12	0.22	6.77	1.05	10.10	12.85	167.39	43.42	5.69	0.52	0.26	0.22	
7	0.13	0.19	5.96	1.05	10.65	11.75	166.46	41.08	5.06	0.55	0.30	0.21	
8	0.13	0.26	4.70	1.30	10.98	13.18	163.36	37.02	4.61	0.55	0.34	0.19	
9	0.13	0.26	4.43	1.70	9.47	14.96	157.16	32.65	4.52	0.61	0.31	0.19	
10	0.13	0.26	5.96	2.78	10.21	16.52	150.40	29.65	4.43	0.61	0.32	0.18	
11	0.12	0.26	9.29	5.42	13.52	20.60	143.78	26.50	4.43	0.52	0.35	0.18	
12	0.12	0.28	9.20	5.06	14.84	32.50	136.22	23.80	3.80	0.46	0.38	0.17	
13	0.12	0.39	7.94	5.60	13.88	37.18	128.62	23.35	3.32	0.40	0.36	0.16	
14	0.12	0.33	6.95	3.89	14.00	37.66	116.20	25.00	3.20	0.38	0.36	0.15	
15	0.12	0.33	6.50	4.79	16.64	41.62	96.66	26.20	3.20	0.36	0.35	0.13	
16	0.14	0.37	11.53	4.25	18.56	46.30	75.46	23.50	3.20	0.36	0.33	0.12	
17	0.34	1.45	17.48	3.38	20.00	50.08	53.50	19.16	3.08	0.35	0.30	0.12	
18	0.26	0.91	11.42	3.44	20.12	50.62	36.86	16.28	2.84	0.35	0.31	0.11	
19	0.24	0.85	9.74	3.44	18.20	49.36	29.20	14.96	2.78	0.34	0.76	0.17	
20	0.24	3.56	9.29	3.89	15.68	47.56	25.30	14.00	2.66	0.33	4.34	0.13	
21	0.27	11.42	9.11	5.51	14.48	46.84	22.78	12.85	2.36	0.33	4.07	0.12	
22	0.28	9.20	8.21	8.30	14.00	47.38	20.48	11.75	2.42	0.33	2.54	0.12	
23	0.25	9.74	8.66	9.74	14.12	48.28	18.92	10.65	2.00	0.33	1.30	0.12	
24	0.22	11.09	8.57	9.92	15.32	52.60	17.48	9.65	1.70	0.33	0.76	0.10	
25	0.22	11.09	8.30	9.47	19.52	57.00	15.80	8.93	1.45	0.32	0.49	0.10	
26	0.22	9.29	6.77	9.47	27.10	57.80	14.96	8.57	1.20	0.32	0.37	0.10	
27	0.20	8.21	5.06	10.54	32.80	54.58	14.00	8.39	1.25	0.33	0.33	0.09	
28	0.18	7.49	4.52	12.63	38.64	49.00	13.18	8.12	1.10	0.36	0.30	0.10	
29	0.17	7.04	4.34	16.04	35.80	50.26	12.41	7.67	1.00	0.35		0.14	
30	0.15	6.86	4.16	17.24	29.80	71.32	12.74	7.22	0.91	0.32		0.17	
31		6.32		16.28	24.70		12.63		0.88	0.29		0.18	
Total	5.09	108.62	220.25	186.48	541.74	1111.14	2505.79	624.78	103.97	13.86	20.85	4.99	5447.56 CMSDAY
Mean	0.17	3.50	7.34	6.02	17.48	37.04	80.83	20.83	3.35	0.45	0.74	0.16	14.92 CMS
Max	0.34	11.42	17.48	17.24	38.64	71.32	167.39	43.42	6.95	0.88	4.34	0.28	167.39 CMS
Min	0.09	0.13	3.98	1.05	9.47	11.75	12.41	7.22	0.88	0.29	0.26	0.09	0.09 CMS
Runoff	0.440	9.385	19.030	16.112	46.806	96.003	216.500	53.981	8.983	1.198	1.801	0.431	470.669 MCM

Momentary Peak 167.70 CMS, at 9.10 M (A.D), at 24.00 Hours, on Oct 6, 1996
Runoff Yield 9.69 Liters/Second/Square KM, Momentary Peak Yield 108.896 Liters/Second/Square KM

WATER YEAR 1996

PRACHIN BURI RIVER BASIN

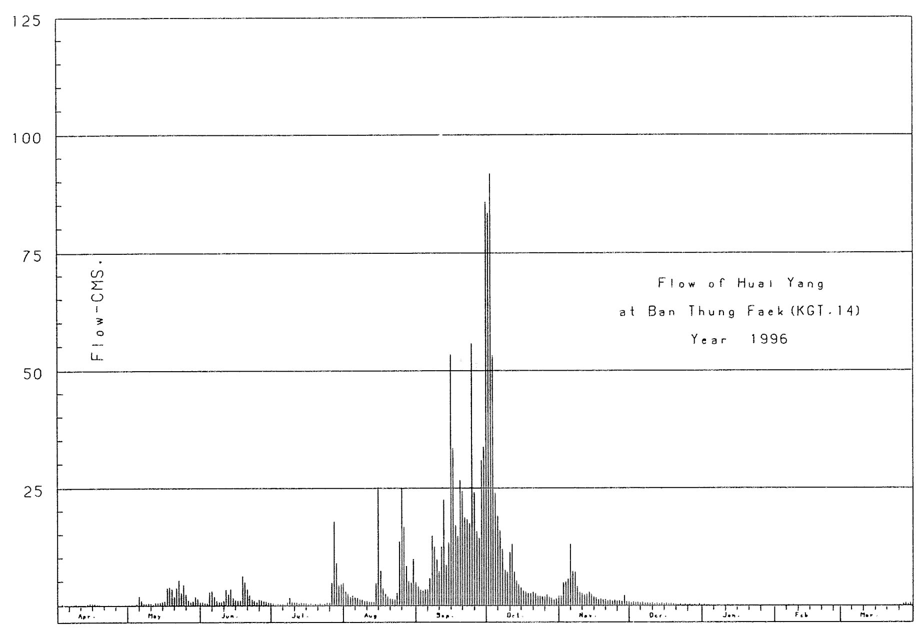
Huai Yang at Ban Thung Faek, Prachin Buri (Kgt.14)

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 Na Di, Prachin Buri.
Drainage Area	366 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+34.60 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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 55 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.85	34.81	35.01	34.95	35.40	35.51	38.08	35.29	35.03	34.91	34.84	34.79	
2	34.89	34.85	34.97	34.92	35.33	35.43	38.27	35.56	35.03	34.90	34.84	34.78	
3	34.87	34.88	34.95	34.93	35.25	35.42	37.33	35.59	35.03	34.90	34.84	34.76	
4	34.85	34.90	35.36	34.93	35.28	35.43	36.41	35.62	35.02	34.89	34.85	34.77	
5	34.82	35.26	35.41	34.93	35.23	35.45	36.22	35.98	35.02	34.89	34.86	34.78	
6	34.81	35.08	35.26	34.92	35.21	35.63	36.09	35.72	35.01	34.88	34.87	34.78	
7	34.89	34.94	35.09	35.00	35.17	36.05	35.93	35.72	35.00	34.88	34.90	34.78	
8	34.91	34.92	35.03	35.23	35.14	35.95	35.74	35.50	34.99	34.88	34.88	34.78	
9	34.89	34.97	35.01	35.07	35.10	35.84	35.71	35.39	34.98	34.87	34.86	34.78	
10	34.86	34.92	35.11	35.02	35.07	35.72	35.91	35.34	34.98	34.87	34.85	34.78	
11	34.85	34.93	35.43	34.99	35.06	35.95	35.98	35.32	34.97	34.87	34.85	34.79	
12	34.86	35.01	35.33	34.97	35.03	36.35	35.72	35.32	34.97	34.87	34.84	34.79	
13	34.93	34.95	35.44	34.98	35.03	35.79	35.60	35.39	34.97	34.87	34.84	34.79	
14	34.94	35.01	35.22	34.98	35.55	35.99	35.53	35.32	34.97	34.87	34.83	34.78	
15	34.95	35.01	35.11	34.95	36.45	37.34	35.47	35.26	34.96	34.87	34.83	34.78	
16	34.92	35.06	35.08	34.94	35.73	36.74	35.42	35.22	34.96	34.86	34.83	34.78	
17	34.91	35.48	35.12	34.94	35.46	36.14	35.38	35.18	34.96	34.85	34.82	34.78	
18	34.87	35.48	35.67	34.92	35.34	36.04	35.36	35.17	34.95	34.85	34.82	34.77	
19	34.85	35.45	35.57	34.92	35.25	36.51	35.33	35.17	34.95	34.85	34.82	34.77	
20	34.83	35.26	35.45	34.93	35.20	36.42	35.39	35.15	34.94	34.84	34.82	34.77	
21	34.82	35.46	35.29	34.93	35.17	36.20	35.34	35.13	34.93	34.84	34.82	34.77	
22	34.82	35.61	35.17	34.93	35.17	36.19	35.29	35.12	34.93	34.84	34.85	34.77	
23	34.82	35.35	35.10	34.93	35.35	36.15	35.26	35.11	34.92	34.84	34.84	34.77	
24	34.81	35.52	35.04	34.97	36.00	37.41	35.27	35.11	34.92	34.84	34.81	34.77	
25	34.81	35.33	35.16	35.01	36.45	36.41	35.27	35.10	34.92	34.84	34.80	34.77	
26	34.81	35.13	35.11	35.56	36.12	36.08	35.30	35.09	34.91	34.84	34.80	34.77	
27	34.80	35.04	35.09	36.17	35.78	36.03	35.25	35.09	34.91	34.84	34.80	34.96	
28	34.80	35.05	35.04	35.80	35.59	36.66	35.20	35.31	34.90	34.84	34.79	34.98	
29	34.79	35.25	35.01	35.52	35.57	36.75	35.15	35.05	34.91	34.84		34.95	
30	34.80	35.16	34.98	35.54	35.84	38.13	35.17	35.04	34.93	34.84		34.98	
31		35.04		35.56	35.57		35.26		34.91	34.84		34.97	
Mean	34.85	35.13	35.19	35.11	35.45	36.19	35.76	35.31	34.96	34.86	34.84	34.81	
Max	34.95	35.61	35.67	36.17	36.45	38.13	38.27	35.98	35.03	34.91	34.90	34.98	38.27
Min	34.79	34.81	34.95	34.92	35.03	35.42	35.15	35.04	34.90	34.84	34.79	34.76	34.76

Annual Max Momentary Gage Height 38.51 M (MSL), at 1.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 34.60 M (MSL), River Bed 33.10 M (MSL)
Left Bank Elevation 41.72 M (MSL)
Right Bank Elevation 41.98 M (MSL), Drainage Area 366 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.12	0.74	0.50	3.10	4.23	83.64	2.23	0.82	0.34	0.18	0.09	
2	0.28	0.20	0.58	0.38	2.54	3.40	91.95	4.88	0.82	0.30	0.18	0.08	
3	0.24	0.26	0.50	0.42	1.95	3.30	53.22	5.27	0.82	0.30	0.18	0.06	
4	0.20	0.30	2.78	0.42	2.16	3.40	24.17	5.70	0.78	0.28	0.20	0.07	
5	0.14	2.02	3.20	0.42	1.81	3.60	19.30	13.30	0.78	0.28	0.22	0.08	
6	0.12	1.02	2.02	0.38	1.67	5.85	16.05	7.32	0.74	0.26	0.24	0.08	
7	0.28	0.46	1.06	0.70	1.45	15.05	12.05	7.32	0.70	0.26	0.30	0.08	
8	0.34	0.38	0.82	1.81	1.30	12.55	7.74	4.10	0.66	0.26	0.26	0.08	
9	0.28	0.58	0.74	0.98	1.10	9.92	7.11	3.02	0.62	0.24	0.22	0.08	
10	0.22	0.38	1.15	0.78	0.98	7.32	11.55	2.62	0.62	0.24	0.20	0.08	
11	0.20	0.42	3.40	0.66	0.94	12.55	13.30	2.46	0.58	0.24	0.20	0.09	
12	0.22	0.74	2.54	0.58	0.82	22.60	7.32	2.46	0.58	0.24	0.18	0.09	
13	0.42	0.50	3.50	0.62	0.82	8.79	5.40	3.02	0.58	0.24	0.18	0.09	
14	0.46	0.74	1.74	0.62	4.75	13.55	4.49	2.46	0.58	0.24	0.16	0.08	
15	0.50	0.74	1.15	0.50	25.25	53.56	3.80	2.02	0.54	0.24	0.16	0.08	
16	0.38	0.94	1.02	0.46	7.53	33.50	3.30	1.74	0.54	0.22	0.16	0.08	
17	0.34	3.90	1.20	0.46	3.70	17.30	2.94	1.50	0.54	0.20	0.14	0.08	
18	0.24	3.90	6.45	0.38	2.62	14.80	2.78	1.45	0.50	0.20	0.14	0.07	
19	0.20	3.60	5.01	0.38	1.95	26.88	2.54	1.45	0.50	0.20	0.14	0.07	
20	0.16	2.02	3.60	0.42	1.60	24.44	3.02	1.35	0.46	0.18	0.14	0.07	
21	0.14	3.70	2.23	0.42	1.45	18.80	2.62	1.25	0.42	0.18	0.14	0.07	
22	0.14	5.55	1.45	0.42	1.45	18.55	2.23	1.20	0.42	0.18	0.20	0.07	
23	0.14	2.70	1.10	0.42	2.70	17.55	2.02	1.15	0.38	0.18	0.18	0.07	
24	0.12	4.36	0.86	0.58	13.80	55.96	2.09	1.15	0.38	0.18	0.12	0.07	
25	0.12	2.54	1.40	0.74	25.25	24.17	2.09	1.10	0.38	0.18	0.10	0.07	
26	0.12	1.25	1.15	4.88	16.80	15.80	2.30	1.06	0.34	0.18	0.10	0.07	
27	0.10	0.86	1.06	18.05	8.58	14.55	1.95	1.06	0.34	0.18	0.10	0.54	
28	0.10	0.90	0.86	9.00	5.27	31.14	1.60	2.38	0.30	0.18	0.09	0.62	
29	0.09	1.95	0.74	4.36	5.01	33.80	1.35	0.90	0.34	0.18		0.50	
30	0.10	1.40	0.62	4.62	9.92	85.79	1.45	0.86	0.42	0.18		0.62	
31		0.86		4.88	5.01		2.02		0.34	0.18		0.58	
Total	6.59	49.29	54.67	60.24	163.28	612.70	397.39	87.78	16.82	6.94	4.81	4.86	1465.37 CMSDAY
Mean	0.22	1.59	1.82	1.94	5.27	20.42	12.82	2.93	0.54	0.22	0.17	0.16	4.01 CMS
Max	0.50	5.55	6.45	18.05	25.25	85.79	91.95	13.30	0.82	0.34	0.30	0.62	91.95 CMS
Min	0.09	0.12	0.50	0.38	0.82	3.30	1.35	0.86	0.30	0.18	0.09	0.06	0.06 CMS
Runoff	0.569	4.259	4.723	5.205	14.107	52.937	34.334	7.584	1.453	0.600	0.416	0.420	126.608 MCM

Momentary Peak 103.52 CMS, at 38.51 M (MSL), at 1.00 Hours, on Oct 1, 1996

Runoff Yield 10.97 Liters/Second/Square KM, Momentary Peak Yield 282.842 Liters/Second/Square KM

WATER YEAR 1996

PRACHIN BURI RIVER BASIN

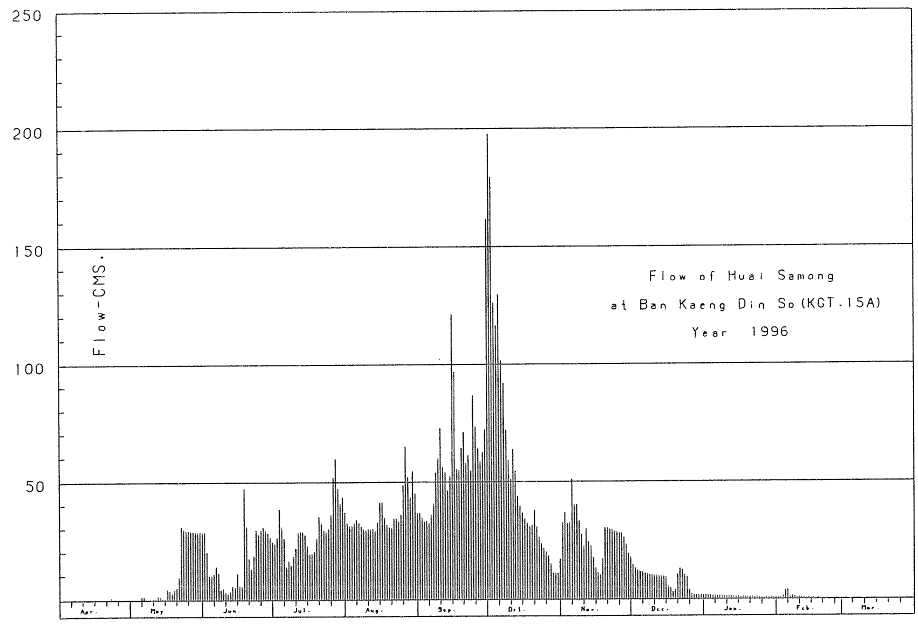
Huai Samong at Ban Kaeng Din So, Prachin Buri (Kgt.15A)

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	+12.80 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Infront of the station office and near the rain gage.
Elevation	+22.396 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1968 to date.
Rating Operation	
Period of Rating	1968 to date.
Rated by Float	-
Rated by Current Meter	1968 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir during Feb.16-Mar.31,97 discharge estimated by recession equation. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.36	13.37	15.50	15.25	15.68	15.82	19.72	15.67	14.79	13.73	13.58	14.26	
2	13.29	13.36	15.08	15.38	15.61	15.75	19.35	15.82	14.73	13.73	13.58	14.41	
3	13.38	13.34	14.42	15.88	15.62	15.70	18.28	15.66	14.67	13.73	13.70	14.54	
4	13.40	13.35	14.37	15.60	15.67	15.71	18.07	15.67	14.64	13.71	13.97	14.62	
5	13.40	13.68	14.58	15.37	15.73	15.67	18.36	16.30	14.62	13.70	14.02	14.70	
6	13.40	13.65	14.76	14.76	15.67	15.79	17.69	15.93	14.58	13.70	13.61	14.76	
7	13.37	13.42	14.62	14.88	15.61	15.95	17.46	15.94	14.50	13.69	13.70	14.79	
8	13.35	13.39	14.05	14.80	15.56	16.39	16.96	15.71	14.44	13.69	13.66	14.81	
9	13.34	13.45	14.10	14.98	15.54	16.59	16.56	15.44	14.41	13.68	13.61	14.87	
10	13.34	13.43	13.92	15.16	15.57	16.98	16.30	15.19	14.38	13.68	13.61	14.93	
11	13.33	13.52	13.82	15.49	15.55	16.47	16.72	15.55	14.35	13.68	13.59	14.98	
12	13.32	13.71	13.97	15.51	15.57	16.39	16.41	15.28	14.32	13.67	13.57	15.03	
13	13.38	13.63	14.20	15.50	15.52	16.14	16.06	15.20	14.27	13.66	13.56	15.06	
14	13.40	13.53	14.16	15.45	15.68	16.34	15.91	14.95	14.27	13.65	13.56	15.13	
15	13.37	13.53	14.59	15.20	15.97	18.18	15.82	14.73	14.22	13.65	13.55	15.17	
16	13.35	14.07	14.20	15.03	15.97	17.57	15.73	14.59	14.16	13.64	13.54	15.20	
17	13.35	13.98	14.19	15.03	15.76	16.44	15.66	14.45	14.11	13.64	13.57	15.22	
18	13.35	13.86	16.17	15.09	15.64	16.42	15.60	14.91	13.92	13.64	13.89	15.26	
19	13.35	14.03	15.61	15.36	15.59	16.74	15.62	15.58	14.00	13.63	14.16	15.29	
20	13.36	14.12	14.93	15.77	15.58	16.94	15.86	15.57	14.47	13.63	14.20	15.30	
21	13.41	14.28	14.72	15.66	15.74	16.52	15.59	15.55	14.71	13.63	14.20	15.31	
22	13.61	15.61	15.00	15.54	15.75	16.63	15.39	15.54	14.69	13.63	14.19	15.32	
23	13.42	15.55	15.54	15.50	15.70	16.42	15.24	15.51	14.40	13.64	14.18	15.33	
24	13.38	15.53	15.46	15.57	15.80	17.32	15.15	15.49	14.25	13.61	14.17	15.34	
25	13.36	15.52	15.54	15.80	16.22	16.99	15.06	15.48	14.02	13.59	14.16	15.35	
26	13.35	15.51	15.60	16.32	16.75	16.73	14.98	15.46	13.79	13.58	14.16	15.35	
27	13.35	15.51	15.53	16.59	16.33	16.55	14.82	15.38	13.77	13.60	14.16	15.41	
28	13.34	15.50	15.49	16.17	16.04	16.67	14.60	15.22	13.72	13.60	14.16	15.52	
29	13.34	15.50	15.39	15.95	16.41	16.96	14.56	15.04	13.73	13.60		15.48	
30	13.33	15.50	15.30	16.05	16.10	19.00	14.59	14.95	13.74	13.59		15.48	
31		15.50		15.83	15.82		14.91		13.73	13.59		15.49	
Mean	13.37	14.26	14.83	15.50	15.80	16.59	16.23	15.39	14.27	13.65	13.84	15.09	
Max	13.61	15.61	16.17	16.59	16.75	19.00	19.72	16.30	14.79	13.73	14.20	15.52	19.72
Min	13.29	13.34	13.82	14.76	15.52	15.67	14.56	14.45	13.72	13.58	13.54	14.26	13.29

Annual Max Momentary Gage Height	16.03 M (MSL), at 12.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation	12.80 M (MSL), River Bed 12.25 M (MSL)
Left Bank Elevation	24.40 M (MSL)
Right Bank Elevation	22.25 M (MSL), Drainage Area 530 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.24	29.00	24.00	33.04	37.10	198.06	32.81	14.80	1.94	0.92	0.54	
2	0.09	0.22	20.60	26.60	31.43	35.00	179.50	37.10	13.60	1.94	0.92	0.53	
3	0.26	0.18	10.56	38.90	31.66	33.50	126.10	32.58	12.52	1.94	1.70	0.51	
4	0.30	0.20	10.33	31.20	32.81	33.80	116.80	32.81	12.04	1.78	3.86	0.50	
5	0.30	1.56	11.31	26.40	34.40	32.81	130.00	51.50	11.72	1.70	4.28	0.49	
6	0.30	1.35	14.20	14.20	32.81	36.20	101.60	40.40	11.31	1.70	1.07	0.47	
7	0.24	0.36	11.72	16.60	31.43	41.00	92.40	40.70	10.93	1.63	1.70	0.46	
8	0.20	0.28	4.55	15.00	30.32	54.20	72.40	33.80	10.65	1.63	1.42	0.45	
9	0.18	0.45	5.00	18.60	29.88	60.20	59.30	27.80	10.51	1.56	1.07	0.44	
10	0.18	0.39	3.46	22.20	30.54	73.20	51.50	22.80	10.37	1.56	1.07	0.43	
11	0.16	0.68	2.66	28.80	30.10	56.60	64.22	30.10	10.23	1.56	0.96	0.41	
12	0.14	1.78	3.86	29.22	30.54	54.20	54.80	24.60	10.09	1.49	0.88	0.40	
13	0.26	1.21	6.00	29.00	29.44	46.70	44.30	23.00	9.86	1.42	0.84	0.39	
14	0.30	0.72	5.60	28.00	33.04	52.70	39.80	18.00	9.86	1.35	0.84	0.38	
15	0.24	0.72	11.35	23.00	41.60	121.60	37.10	13.60	9.63	1.35	0.80	0.37	
16	0.20	4.73	6.00	19.60	41.60	96.80	34.40	11.35	5.60	1.28	0.76	0.36	
17	0.20	3.94	5.90	19.60	35.30	55.70	32.58	10.70	5.10	1.28	0.74	0.35	
18	0.20	2.98	47.60	20.80	32.12	55.10	31.20	17.20	3.46	1.28	0.72	0.34	
19	0.20	4.37	31.43	26.20	30.98	64.84	31.66	30.76	4.10	1.21	0.70	0.34	
20	0.22	5.20	17.60	35.60	30.76	71.60	38.30	30.54	10.79	1.21	0.68	0.33	
21	0.33	9.91	13.40	32.58	34.70	58.10	30.98	30.10	13.20	1.21	0.67	0.32	
22	1.07	31.43	19.00	29.88	35.00	61.43	26.80	29.88	12.84	1.21	0.65	0.31	
23	0.36	30.10	29.88	29.00	33.50	55.10	23.80	29.22	10.47	1.28	0.63	0.30	
24	0.26	29.66	28.20	30.54	36.50	86.80	22.00	28.80	9.77	1.07	0.62	0.29	
25	0.22	29.44	29.88	36.50	49.10	73.60	20.20	28.60	4.28	0.96	0.60	0.29	
26	0.20	29.22	31.20	52.10	65.15	64.53	18.60	28.20	2.42	0.92	0.58	0.28	
27	0.20	29.22	29.66	60.20	52.40	59.00	15.40	26.60	2.26	1.00	0.57	0.27	
28	0.18	29.00	28.80	47.60	43.70	62.67	11.40	23.40	1.86	1.00	0.55	0.26	
29	0.18	29.00	26.80	41.00	54.80	72.40	11.21	19.80	1.94	1.00		0.26	
30	0.16	29.00	25.00	44.00	45.50	162.00	11.35	18.00	2.02	0.96		0.25	
31		29.00		37.40	37.10		17.20		1.94	0.96		0.24	
Total	7.55	336.54	520.55	934.32	1141.25	1868.48	1744.96	824.75	260.17	42.38	30.80	11.56	7723.31 CMSDAY
Mean	0.25	10.86	17.35	30.14	36.81	62.28	56.29	27.49	8.39	1.37	1.10	0.37	21.16 CMS
Max	1.07	31.43	47.60	60.20	65.15	162.00	198.06	51.50	14.80	1.94	4.28	0.54	198.06 CMS
Min	0.09	0.18	2.66	14.20	29.44	32.81	11.21	10.70	1.86	0.92	0.55	0.24	0.09 CMS
Runoff	0.652	29.077	44.976	80.725	98.604	161.437	150.765	71.258	22.479	3.662	2.661	0.999	667.294 MCM

Momentary Peak 43.40 CMS, at 16.03 M (MSL), at 12.00 Hours, on Oct 3, 1996
Runoff Yield 39.92 Liters/Second/Square KM, Momentary Peak Yield 81.887 Liters/Second/Square KM

WATER YEAR 1996

PRACHIN BURI RIVER BASIN

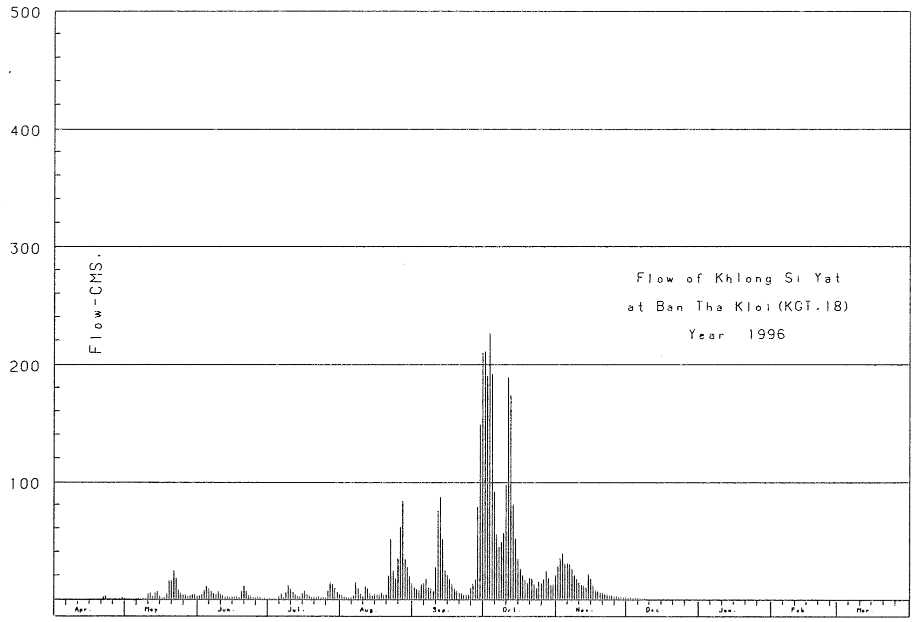
Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)

Location	Lat. 13°-28′-29″ N., Long. 101°-37′-44″ E., on left bank at Ban Tha Kloi, Amphoe Tha Ta Kiap, Chachoengsao.
Drainage Area	951 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+34.20 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near the automatic gage building.
Elevation	+41.426 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 to date.
Rated by Float	-
Rated by Current Meter	1969 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +40.27 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 78 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.62	35.76	36.15	35.86	36.26	36.85	41.49	38.00	36.04	35.70	35.53	35.52	
2	35.68	35.74	36.37	35.83	36.17	36.73	41.31	38.35	36.02	35.69	35.52	35.46	
3	35.68	35.74	36.64	35.80	36.08	36.71	41.61	38.58	36.00	35.69	35.58	35.80	
4	35.67	35.81	36.94	35.80	36.02	36.99	41.33	38.08	35.98	35.68	35.73	35.50	
5	35.65	35.79	36.77	36.18	35.98	37.08	40.00	38.16	35.96	35.68	35.61	35.42	
6	35.64	35.75	36.65	36.38	36.23	37.28	39.13	38.08	35.94	35.67	35.58	35.38	
7	35.63	35.76	36.40	36.08	37.12	36.83	38.81	37.87	35.93	35.66	35.57	35.36	
8	35.66	35.79	36.37	36.53	36.83	36.78	38.92	37.50	35.87	35.66	35.56	35.36	
9	35.68	35.88	36.55	36.94	36.38	36.62	39.19	37.33	35.90	35.65	35.54	35.39	
10	35.67	36.42	36.42	36.79	36.23	37.91	40.13	37.10	35.74	35.66	35.52	35.38	
11	35.65	36.47	36.20	36.56	36.89	39.66	41.30	37.01	35.70	35.66	35.52	35.36	
12	35.63	36.15	36.12	36.30	36.82	39.92	41.16	36.95	35.69	35.64	35.51	35.36	
13	35.63	36.52	36.11	36.17	36.42	39.02	39.78	36.87	35.69	35.63	35.51	35.36	
14	35.62	36.58	36.10	36.12	36.23	37.80	39.03	37.55	35.78	35.63	35.52	35.35	
15	35.61	36.17	36.02	36.45	36.33	37.52	38.34	37.35	35.80	35.65	35.52	35.34	
16	35.62	36.00	36.13	36.61	36.35	37.32	37.84	36.96	35.80	35.63	35.52	35.34	
17	35.62	35.94	36.10	36.40	36.29	37.02	37.51	36.73	35.80	35.59	35.52	35.34	
18	35.61	36.43	36.08	36.19	36.52	36.82	37.26	36.61	35.79	35.57	35.60	35.36	
19	35.61	37.20	36.57	36.09	36.25	36.65	37.11	36.54	35.78	35.55	35.63	35.35	
20	35.63	37.20	36.94	36.06	36.37	36.52	37.35	36.48	35.76	35.61	35.56	35.33	
21	36.14	37.77	36.62	36.09	37.47	36.42	37.34	36.41	35.76	35.71	35.63	35.32	
22	36.16	37.37	36.29	36.14	39.00	36.34	37.02	36.35	35.75	35.65	35.57	35.34	
23	35.86	36.75	36.17	36.06	37.77	36.31	36.85	36.29	35.74	35.63	35.53	35.33	
24	35.78	36.45	36.10	36.04	37.31	36.35	37.16	36.24	35.74	35.62	35.52	35.32	
25	35.74	36.33	36.02	36.02	38.35	36.85	37.10	36.20	35.73	35.60	35.51	35.31	
26	35.71	36.28	36.02	36.69	39.33	37.04	37.26	36.16	35.73	35.56	35.51	35.30	
27	35.70	36.19	35.97	37.11	39.84	37.32	37.74	36.13	35.72	35.59	35.51	35.30	
28	35.75	36.22	35.92	37.06	38.35	39.75	37.32	36.11	35.72	35.58	35.52	35.30	
29	35.97	36.35	35.88	36.80	37.99	40.90	36.99	36.07	35.71	35.57		35.32	
30	35.81	36.31	35.84	36.56	37.45	41.48	36.99	36.05	35.70	35.55		35.36	
31		36.22		36.38	37.05		37.49		35.70	35.54		35.35	
Mean	35.71	36.30	36.28	36.33	37.02	37.56	38.64	37.00	35.81	35.63	35.55	35.37	
Max	36.16	37.77	36.94	37.11	39.84	41.48	41.61	38.58	36.04	35.71	35.73	35.80	41.61
Min	35.61	35.74	35.84	35.80	35.98	36.31	36.85	36.05	35.69	35.54	35.51	35.30	35.30

Annual Max Momentary Gage Height 41.63 M (MSL), at 12.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation 34.20 M (MSL), River Bed 37.25 M (MSL)
Left Bank Elevation 41.63 M (MSL)
Right Bank Elevation 40.26 M (MSL), Drainage Area 951 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	1.00	3.03	1.34	3.99	10.60	211.80	29.00	2.27	0.85	0.53	0.52	
2	0.80	0.95	4.94	1.22	3.21	8.75	190.20	35.05	2.16	0.82	0.52	0.46	
3	0.80	0.95	7.68	1.10	2.49	8.45	227.40	39.86	2.05	0.82	0.58	1.10	
4	0.77	1.14	12.04	1.10	2.16	12.84	192.60	30.28	1.94	0.80	0.93	0.50	
5	0.73	1.08	9.35	3.29	1.94	14.28	92.00	31.56	1.83	0.80	0.63	0.42	
6	0.70	0.98	7.78	5.03	3.73	17.48	55.47	30.28	1.72	0.77	0.58	0.38	
7	0.68	1.00	5.20	2.49	14.92	10.28	45.71	26.92	1.66	0.75	0.57	0.36	
8	0.75	1.08	4.94	6.54	10.28	9.50	49.06	21.00	1.38	0.75	0.56	0.36	
9	0.80	1.42	6.75	12.04	5.03	7.47	57.29	18.28	1.50	0.73	0.54	0.39	
10	0.77	5.41	5.41	9.65	3.73	27.56	98.60	14.60	0.95	0.75	0.52	0.38	
11	0.73	5.92	3.47	6.85	11.24	75.45	189.00	13.16	0.85	0.75	0.52	0.36	
12	0.68	3.03	2.77	4.33	10.12	88.00	174.53	12.20	0.82	0.70	0.51	0.36	
13	0.68	6.44	2.69	3.21	5.41	52.11	81.00	10.92	0.82	0.68	0.51	0.36	
14	0.65	7.06	2.60	2.77	3.73	25.80	52.41	21.80	1.05	0.68	0.52	0.35	
15	0.63	3.21	2.16	5.72	4.59	21.32	34.86	18.60	1.10	0.73	0.52	0.34	
16	0.65	2.05	2.86	7.37	4.77	18.12	26.44	12.36	1.10	0.68	0.52	0.34	
17	0.65	1.72	2.60	5.20	4.25	13.32	21.16	8.75	1.10	0.59	0.52	0.34	
18	0.63	5.51	2.49	3.38	6.44	10.12	17.16	7.37	1.08	0.57	0.60	0.36	
19	0.63	16.20	6.96	2.55	3.90	7.78	14.76	6.65	1.05	0.55	0.68	0.35	
20	0.68	16.20	12.04	2.38	4.94	6.44	18.60	6.03	1.00	0.63	0.56	0.33	
21	2.95	25.32	7.47	2.55	20.52	5.41	18.44	5.30	1.00	0.88	0.68	0.32	
22	3.12	18.92	4.25	2.95	51.50	4.68	13.32	4.77	0.98	0.73	0.57	0.34	
23	1.34	9.05	3.21	2.38	25.32	4.42	10.60	4.25	0.95	0.68	0.53	0.33	
24	1.05	5.72	2.60	2.27	17.96	4.77	15.56	3.81	0.95	0.65	0.52	0.32	
25	0.95	4.59	2.16	2.16	35.05	10.60	14.60	3.47	0.93	0.60	0.51	0.31	
26	0.88	4.16	2.16	8.20	62.64	13.64	17.16	3.12	0.93	0.56	0.51	0.30	
27	0.85	3.38	1.89	14.76	84.00	18.12	24.84	2.86	0.90	0.59	0.51	0.30	
28	0.98	3.64	1.61	13.96	35.05	79.50	18.12	2.69	0.90	0.58	0.52	0.30	
29	1.89	4.77	1.42	9.80	28.84	149.00	12.84	2.44	0.88	0.57		0.32	
30	1.14	4.42	1.26	6.85	20.20	210.60	12.84	2.33	0.85	0.55		0.36	
31		3.64		5.03	13.80		20.84		0.85	0.54		0.35	
Total	29.21	169.96	135.79	158.47	505.75	946.41	2029.21	429.71	37.55	21.33	15.77	11.91	4491.07 CMSDAY
Mean	0.97	5.48	4.53	5.11	16.31	31.55	65.46	14.32	1.21	0.69	0.56	0.38	12.30 CMS
Max	3.12	25.32	12.04	14.76	84.00	210.60	227.40	39.86	2.27	0.88	0.93	1.10	227.40 CMS
Min	0.63	0.95	1.26	1.10	1.94	4.42	10.60	2.33	0.82	0.54	0.51	0.30	0.30 CMS
Runoff	2.524	14.685	11.732	13.692	43.697	81.770	175.324	37.127	3.244	1.843	1.363	1.029	388.028 MCM

Momentary Peak 230.20 CMS, at 41.63 M (MSL), at 12.00 Hours, on Oct 3, 1996

Runoff Yield 12.94 Liters/Second/Square KM, Momentary Peak Yield 242.061 Liters/Second/Square KM

WATER YEAR 1996

PRACHIN BURI RIVER BASIN

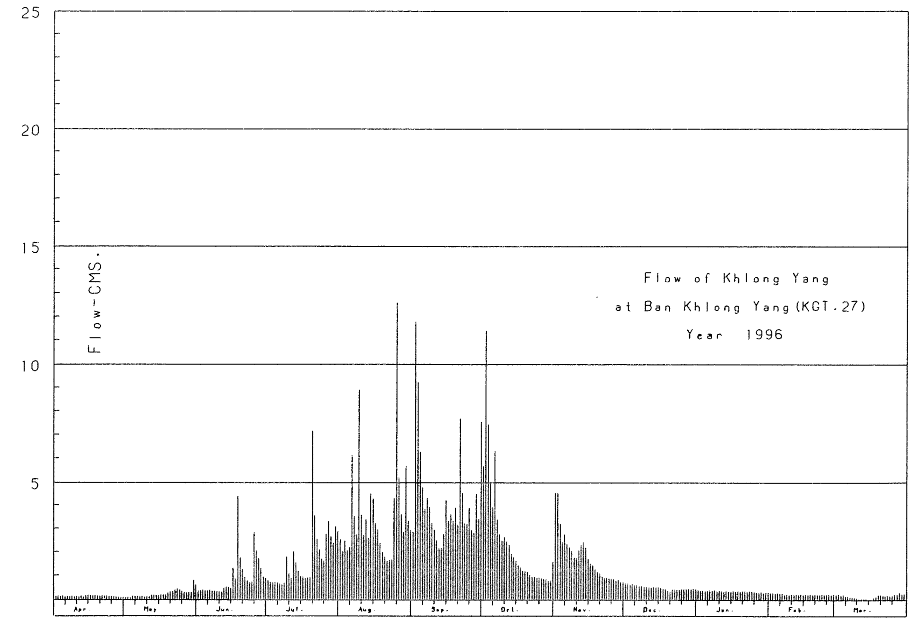
Khlong Yang at Ban Khlong Yang, Nakhon Nayok (Kgt.27)

Location	Lat. 14°-12′-02″ N., Long. 101°-22′-05″ E., on right bank at Ban Khlong Yang, Amphoe Pak Phli, Nakhon Nayok.
Drainage Area	45 sq.km.
Type of Gage	Water-stage recorder.
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	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 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 good. Stage-discharge relation defined by 21 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.68	11.65	11.78	12.01	12.49	12.56	13.01	12.86	11.95	11.80	11.75	11.71	
2	11.68	11.65	11.80	11.97	12.37	13.71	13.67	12.86	11.94	11.80	11.74	11.71	
3	11.68	11.65	11.80	11.97	12.48	13.43	13.23	12.63	11.93	11.79	11.74	11.70	
4	11.68	11.67	11.80	11.97	12.37	13.09	12.93	12.46	11.93	11.79	11.74	11.70	
5	11.67	11.67	11.80	11.97	12.41	12.90	12.76	12.54	11.92	11.80	11.74	11.68	
6	11.67	11.67	11.80	11.93	13.07	12.74	13.09	12.44	11.91	11.80	11.73	11.67	
7	11.67	11.67	11.79	11.92	12.69	12.82	12.66	12.41	11.89	11.80	11.71	11.66	
8	11.67	11.67	11.78	11.95	12.54	12.76	12.54	12.37	11.89	11.80	11.71	11.65	
9	11.67	11.66	11.78	12.31	13.39	12.63	12.48	12.30	11.88	11.79	11.71	11.65	
10	11.67	11.66	11.77	12.13	12.70	12.58	12.51	12.29	11.87	11.79	11.71	11.64	
11	11.67	11.67	11.77	12.05	12.53	12.48	12.47	12.38	11.86	11.78	11.71	11.63	
12	11.68	11.70	11.84	12.36	12.67	12.40	12.44	12.43	11.86	11.78	11.71	11.63	
13	11.68	11.69	11.88	12.25	12.51	12.40	12.34	12.46	11.87	11.78	11.71	11.63	
14	11.69	11.69	11.86	12.15	12.85	12.54	12.30	12.41	11.87	11.78	11.71	11.62	
15	11.69	11.69	11.84	12.10	12.82	12.81	12.26	12.29	11.86	11.78	11.71	11.62	
16	11.69	11.70	12.19	12.08	12.63	12.65	12.22	12.23	11.86	11.78	11.71	11.64	
17	11.69	11.70	12.04	12.06	12.58	12.71	12.19	12.22	11.84	11.78	11.71	11.65	
18	11.69	11.71	12.84	12.06	12.45	12.65	12.16	12.17	11.82	11.78	11.71	11.66	
19	11.69	11.75	12.30	12.08	12.36	12.75	12.15	12.15	11.80	11.78	11.71	11.71	
20	11.68	11.76	12.17	13.20	12.31	12.62	12.15	12.13	11.76	11.78	11.71	11.70	
21	11.68	11.78	12.07	12.70	12.26	13.26	12.11	12.10	11.81	11.78	11.71	11.70	
22	11.68	11.81	12.01	12.50	12.27	12.86	12.09	12.07	11.82	11.78	11.71	11.69	
23	11.68	11.83	11.96	12.38	12.28	12.63	12.08	12.07	11.80	11.78	11.71	11.69	
24	11.67	11.81	11.98	12.29	12.82	12.63	12.07	12.06	11.82	11.78	11.71	11.69	
25	11.67	11.78	12.55	12.26	13.79	12.75	12.07	12.04	11.82	11.76	11.71	11.68	
26	11.66	11.75	12.37	12.54	12.95	12.57	12.06	12.03	11.82	11.76	11.71	11.71	
27	11.66	11.75	12.29	12.65	12.71	12.55	12.05	12.01	11.83	11.76	11.71	11.72	
28	11.65	11.75	12.18	12.52	12.56	12.85	12.03	12.02	11.83	11.76	11.71	11.75	
29	11.65	11.76	12.09	12.45	13.01	12.67	12.00	11.98	11.83	11.75		11.73	
30	11.65	12.02	12.05	12.60	12.65	13.24	12.00	11.97	11.83	11.75		11.72	
31		11.91		12.56	12.57		12.25		11.83	11.75		11.71	
Mean	11.67	11.73	12.01	12.26	12.65	12.77	12.40	12.28	11.86	11.78	11.72	11.68	
Max	11.69	12.02	12.84	13.20	13.79	13.71	13.67	12.86	11.95	11.80	11.75	11.75	13.79
Min	11.65	11.65	11.77	11.92	12.26	12.40	12.00	11.97	11.76	11.75	11.71	11.62	11.62

Annual Max Momentary Gage Height 15.00 M (MSL), at 12.00 Hours, on Sep 5, 1996
Zero Gage at Bottom Elevation 11.50 M (MSL), River Bed 10.99 M (MSL)
Left Bank Elevation 16.11 M (MSL)
Right Bank Elevation 15.06 M (MSL), Drainage Area 45 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.160	0.100	0.360	0.820	2.560	2.900	5.680	4.560	0.700	0.400	0.300	0.220	
2	0.160	0.100	0.400	0.740	2.080	11.805	11.430	4.560	0.680	0.400	0.280	0.220	
3	0.160	0.100	0.400	0.740	2.520	9.270	7.470	3.250	0.660	0.380	0.280	0.200	
4	0.160	0.140	0.400	0.740	2.080	6.320	5.040	2.440	0.660	0.380	0.280	0.200	
5	0.140	0.140	0.400	0.740	2.240	4.800	3.960	2.800	0.640	0.400	0.280	0.160	
6	0.140	0.140	0.400	0.660	6.160	3.840	6.320	2.360	0.620	0.400	0.260	0.140	
7	0.140	0.140	0.380	0.640	3.550	4.320	3.400	2.240	0.580	0.400	0.220	0.120	
8	0.140	0.140	0.360	0.700	2.800	3.960	2.800	2.080	0.580	0.400	0.220	0.100	
9	0.140	0.120	0.360	1.840	8.910	3.250	2.520	1.800	0.560	0.380	0.220	0.100	
10	0.140	0.120	0.340	1.120	3.600	3.000	2.650	1.760	0.540	0.380	0.220	0.080	
11	0.140	0.140	0.340	0.900	2.750	2.520	2.480	2.120	0.520	0.360	0.220	0.060	
12	0.160	0.200	0.480	2.040	3.450	2.200	2.360	2.320	0.520	0.360	0.220	0.060	
13	0.160	0.180	0.560	1.600	2.650	2.200	1.960	2.440	0.540	0.360	0.220	0.060	
14	0.180	0.180	0.520	1.200	4.500	2.800	1.800	2.240	0.540	0.360	0.220	0.040	
15	0.180	0.180	0.480	1.000	4.320	4.260	1.640	1.760	0.520	0.360	0.220	0.040	
16	0.180	0.200	1.360	0.960	3.250	3.350	1.480	1.520	0.520	0.360	0.220	0.080	
17	0.180	0.200	0.880	0.920	3.000	3.660	1.360	1.480	0.480	0.360	0.220	0.100	
18	0.180	0.220	4.440	0.920	2.400	3.350	1.240	1.280	0.440	0.360	0.220	0.120	
19	0.180	0.300	1.800	0.960	2.040	3.900	1.200	1.200	0.400	0.360	0.220	0.220	
20	0.160	0.320	1.280	7.200	1.840	3.200	1.200	1.120	0.320	0.360	0.220	0.200	
21	0.160	0.360	0.940	3.600	1.640	7.740	1.040	1.000	0.420	0.360	0.220	0.200	
22	0.160	0.420	0.820	2.600	1.680	4.560	0.980	0.940	0.440	0.360	0.220	0.180	
23	0.160	0.460	0.720	2.120	1.720	3.250	0.960	0.940	0.400	0.360	0.220	0.180	
24	0.140	0.420	0.760	1.760	4.320	3.250	0.940	0.920	0.440	0.360	0.220	0.180	
25	0.140	0.360	2.850	1.640	12.645	3.900	0.940	0.880	0.440	0.320	0.220	0.160	
26	0.120	0.300	2.080	2.800	5.200	2.950	0.920	0.860	0.440	0.320	0.220	0.220	
27	0.120	0.300	1.760	3.350	3.660	2.850	0.900	0.820	0.460	0.320	0.220	0.240	
28	0.100	0.300	1.320	2.700	2.900	4.500	0.860	0.840	0.460	0.320	0.220	0.300	
29	0.100	0.320	0.980	2.400	5.680	3.450	0.800	0.760	0.460	0.300		0.260	
30	0.100	0.840	0.900	3.100	3.350	7.560	0.800	0.740	0.460	0.300		0.240	
31		0.620		2.900	2.950		1.600		0.460	0.300		0.220	
Total	4.480	8.060	29.070	55.410	112.445	128.915	78.730	54.030	15.900	11.140	6.520	4.900	509.600 CMSDAY
Mean	0.149	0.260	0.969	1.787	3.627	4.297	2.540	1.801	0.513	0.359	0.233	0.158	1.396 CMS
Max	0.180	0.840	4.440	7.200	12.645	11.805	11.430	4.560	0.700	0.400	0.300	0.300	12.645 CMS
Min	0.100	0.100	0.340	0.640	1.640	2.200	0.800	0.740	0.320	0.300	0.220	0.040	0.040 CMS
Runoff	0.387	0.696	2.512	4.787	9.715	11.138	6.802	4.668	1.374	0.962	0.563	0.423	44.029 MCM

Momentary Peak 28.00 CMS, at 15.00 M (MSL), at 12.00 Hours, on Sep 5, 1996
Runoff Yield 31.03 Liters/Second/Square KM, Momentary Peak Yield 622.222 Liters/Second/Square KM

WATER YEAR 1996

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 80 meters from the top staff gage.

Elevation — +4.660 m.(A.D.)

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

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

Period of Available Gage Records — 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 fair. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

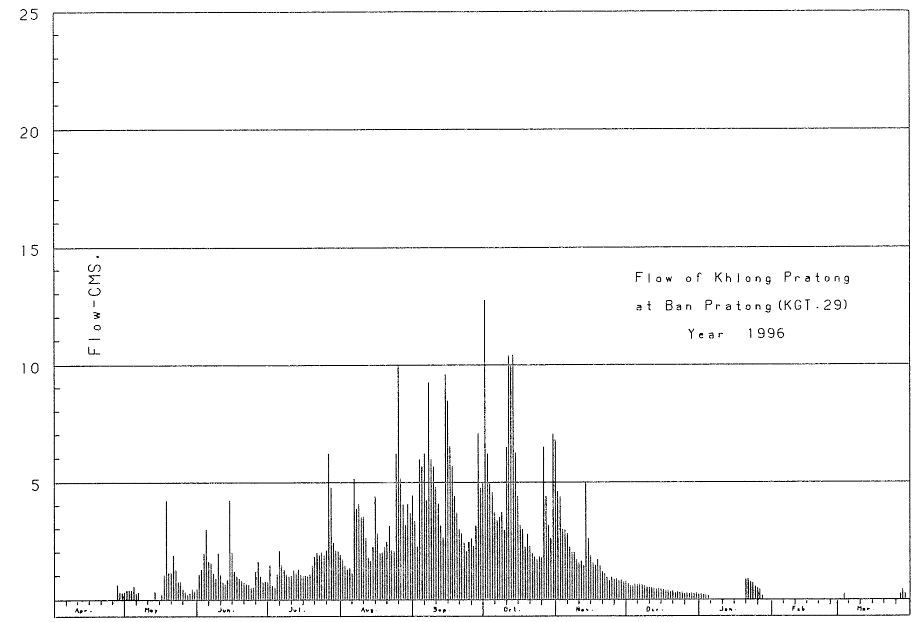
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.20	0.05	0.18	0.23	0.26	0.37	0.71	0.44	0.12	0.01	-0.06	-0.12	
2	-0.22	0.06	0.21	0.10	0.23	0.31	0.52	0.43	0.10	0.01	-0.06	-0.12	
3	-0.20	0.05	0.29	0.09	0.21	0.51	0.46	0.35	0.10	0.00	-0.05	0.02	
4	-0.20	0.10	0.35	0.18	0.22	0.50	0.44	0.35	0.11	0.00	-0.05	-0.01	
5	-0.20	0.02	0.25	0.30	0.19	0.52	0.39	0.34	0.11	-0.01	-0.05	-0.02	
6	-0.20	0.03	0.24	0.23	0.47	0.42	0.37	0.31	0.11	-0.01	-0.06	-0.04	
7	-0.20	-0.03	0.19	0.21	0.40	0.62	0.38	0.29	0.11	-0.01	-0.06	-0.07	
8	-0.18	-0.05	0.15	0.18	0.41	0.51	0.39	0.29	0.10	-0.01	-0.07	-0.12	
9	-0.15	-0.06	0.29	0.17	0.38	0.50	0.35	0.26	0.09	-0.01	-0.07	-0.14	
10	-0.12	-0.05	0.18	0.17	0.38	0.45	0.53	0.24	0.08	-0.02	-0.07	-0.14	
11	-0.09	-0.05	0.13	0.21	0.33	0.41	0.65	0.25	0.08	-0.02	-0.08	-0.15	
12	-0.09	-0.05	0.11	0.19	0.27	0.36	0.64	0.23	0.07	-0.02	-0.08	-0.16	
13	-0.07	0.04	0.14	0.21	0.25	0.33	0.65	0.46	0.07	-0.03	-0.08	-0.16	
14	-0.07	-0.02	0.42	0.18	0.31	0.63	0.52	0.33	0.07	-0.03	-0.08	-0.16	
15	-0.07	-0.04	0.29	0.17	0.43	0.60	0.43	0.28	0.07	-0.03	-0.09	-0.15	
16	-0.06	0.00	0.20	0.17	0.34	0.53	0.36	0.24	0.06	-0.03	-0.08	-0.15	
17	-0.06	0.18	0.17	0.17	0.29	0.50	0.35	0.23	0.05	-0.03	-0.08	-0.15	
18	-0.04	0.42	0.15	0.18	0.29	0.43	0.31	0.26	0.05	-0.03	-0.08	-0.15	
19	-0.05	0.19	0.14	0.23	0.31	0.39	0.34	0.23	0.04	-0.01	-0.08	-0.15	
20	-0.07	0.19	0.12	0.27	0.32	0.35	0.31	0.20	0.04	0.15	-0.08	-0.15	
21	-0.07	0.28	0.11	0.29	0.36	0.34	0.29	0.19	0.03	0.15	-0.09	-0.17	
22	-0.07	0.21	0.11	0.28	0.30	0.32	0.27	0.16	0.03	0.13	-0.09	-0.18	
23	-0.07	0.13	0.08	0.29	0.30	0.30	0.26	0.14	0.03	0.12	-0.10	-0.21	
24	-0.05	0.13	0.08	0.28	0.52	0.32	0.27	0.16	0.03	0.10	-0.10	-0.26	
25	-0.06	0.07	0.20	0.30	0.64	0.33	0.27	0.15	0.02	0.08	-0.10	-0.25	
26	-0.03	0.03	0.25	0.52	0.47	0.31	0.53	0.15	0.02	0.06	-0.11	-0.01	
27	0.11	0.01	0.17	0.45	0.41	0.36	0.43	0.14	0.02	0.00	-0.11	0.02	
28	0.03	0.02	0.13	0.32	0.36	0.55	0.36	0.14	0.02	-0.04	-0.12	0.06	
29	0.03	0.07	0.13	0.30	0.41	0.45	0.33	0.13	0.02	-0.05		0.02	
30	0.03	0.04	0.13	0.30	0.39	0.46	0.55	0.13	0.02	-0.05		-0.15	
31		0.07		0.28	0.43		0.54		0.01	-0.06		-0.12	
Mean	-0.09	0.07	0.19	0.24	0.35	0.43	0.43	0.25	0.06	0.01	-0.08	-0.11	
Max	0.11	0.42	0.42	0.52	0.64	0.63	0.71	0.46	0.12	0.15	-0.05	0.06	0.71
Min	-0.22	-0.06	0.08	0.09	0.19	0.30	0.26	0.13	0.01	-0.06	-0.12	-0.26	-0.26

Annual Max Momentary Gage Height 0.90 M (A.D), at 9.00 Hours, on Oct 11, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.65 M (A.D)

Left Bank Elevation 5.78 M (A.D)

Right Bank Elevation 5.81 M (A.D), Drainage Area 52 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.40	1.08	1.47	1.74	3.36	12.79	4.62	0.72	0.24	0.00	0.00	
2	0.00	0.44	1.29	0.60	1.47	2.28	6.26	4.44	0.60	0.24	0.00	0.00	
3	0.00	0.40	2.01	0.56	1.29	5.98	4.98	3.00	0.60	0.20	0.00	0.28	
4	0.00	0.60	3.00	1.08	1.38	5.70	4.62	3.00	0.66	0.20	0.00	0.00	
5	0.00	0.28	1.65	2.10	1.14	6.26	3.72	2.82	0.66	0.00	0.00	0.00	
6	0.00	0.32	1.56	1.47	5.16	4.26	3.36	2.28	0.66	0.00	0.00	0.00	
7	0.00	0.00	1.14	1.29	3.90	9.26	3.54	2.01	0.66	0.00	0.00	0.00	
8	0.00	0.00	0.90	1.08	4.08	5.98	3.72	2.01	0.60	0.00	0.00	0.00	
9	0.00	0.00	2.01	1.02	3.54	5.70	3.00	1.74	0.56	0.00	0.00	0.00	
10	0.00	0.00	1.08	1.02	3.54	4.80	6.54	1.56	0.52	0.00	0.00	0.00	
11	0.00	0.00	0.78	1.29	2.64	4.08	10.40	1.65	0.52	0.00	0.00	0.00	
12	0.00	0.00	0.66	1.14	1.83	3.18	10.02	1.47	0.48	0.00	0.00	0.00	
13	0.00	0.36	0.84	1.29	1.65	2.64	10.40	4.98	0.48	0.00	0.00	0.00	
14	0.00	0.00	4.26	1.08	2.28	9.64	6.26	2.64	0.48	0.00	0.00	0.00	
15	0.00	0.00	2.01	1.02	4.44	8.50	4.44	1.92	0.48	0.00	0.00	0.00	
16	0.00	0.20	1.20	1.02	2.82	6.54	3.18	1.56	0.44	0.00	0.00	0.00	
17	0.00	1.08	1.02	1.02	2.01	5.70	3.00	1.47	0.40	0.00	0.00	0.00	
18	0.00	4.26	0.90	1.08	2.01	4.44	2.28	1.74	0.40	0.00	0.00	0.00	
19	0.00	1.14	0.84	1.47	2.28	3.72	2.82	1.47	0.36	0.00	0.00	0.00	
20	0.00	1.14	0.72	1.83	2.46	3.00	2.28	1.20	0.36	0.90	0.00	0.00	
21	0.00	1.92	0.66	2.01	3.18	2.82	2.01	1.14	0.32	0.90	0.00	0.00	
22	0.00	1.29	0.66	1.92	2.10	2.46	1.83	0.96	0.32	0.78	0.00	0.00	
23	0.00	0.78	0.52	2.01	2.10	2.10	1.74	0.84	0.32	0.72	0.00	0.00	
24	0.00	0.78	0.52	1.92	6.26	2.46	1.83	0.96	0.32	0.60	0.00	0.00	
25	0.00	0.48	1.20	2.10	10.02	2.64	1.83	0.90	0.28	0.52	0.00	0.00	
26	0.00	0.32	1.65	6.26	5.16	2.28	6.54	0.90	0.28	0.44	0.00	0.00	
27	0.66	0.24	1.02	4.80	4.08	3.18	4.44	0.84	0.28	0.20	0.00	0.28	
28	0.32	0.28	0.78	2.46	3.18	7.10	3.18	0.84	0.28	0.00	0.00	0.44	
29	0.32	0.48	0.78	2.10	4.08	4.80	2.64	0.78	0.28	0.00		0.28	
30	0.32	0.36	0.78	2.10	3.72	4.98	7.10	0.78	0.28	0.00		0.00	
31		0.48		1.92	4.44		6.82		0.24	0.00		0.00	
Total	1.62	18.03	37.52	53.53	99.98	139.84	147.57	56.52	13.84	5.94	0.00	1.28	575.67 CMSDAY
Mean	0.05	0.58	1.25	1.73	3.23	4.66	4.76	1.88	0.45	0.19	0.00	0.04	1.58 CMS
Max	0.66	4.26	4.26	6.26	10.02	9.64	12.79	4.98	0.72	0.90	0.00	0.44	12.79 CMS
Min	0.00	0.00	0.52	0.56	1.14	2.10	1.74	0.78	0.24	0.00	0.00	0.00	0.00 CMS
Runoff	0.140	1.558	3.242	4.625	8.638	12.082	12.750	4.883	1.196	0.513	0.000	0.111	49.738 MCM

Momentary Peak 23.80 CMS, at 0.90 M (A.D), at 9.00 Hours, on Oct 11, 1996

Runoff Yield 30.33 Liters/Second/Square KM, Momentary Peak Yield 457.692 Liters/Second/Square KM

WATER YEAR 1996

EAST COAST-GULF BASIN

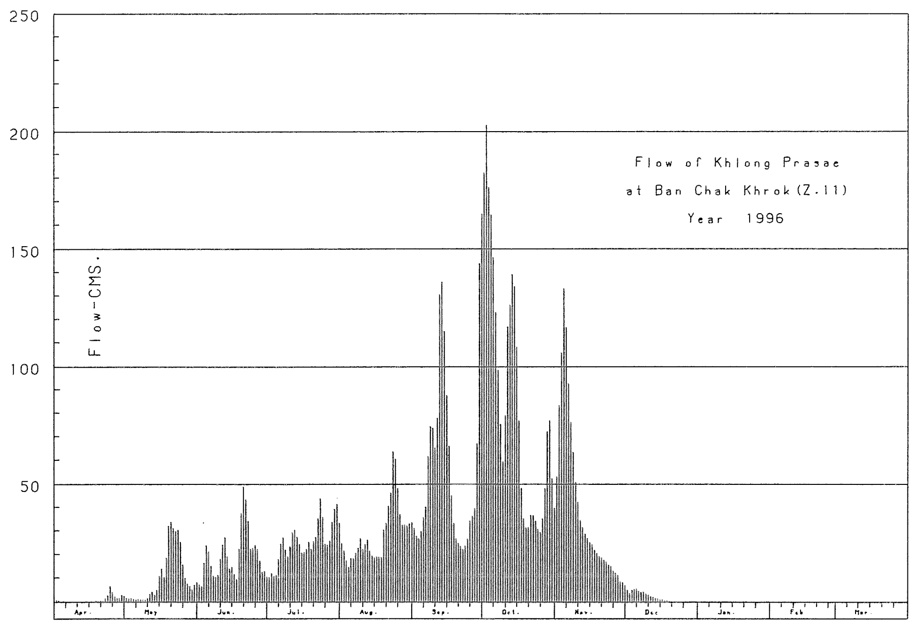
Khlong Prasae at Ban Chak Khrok, Rayong (Z.11)

Location	Lat. 12°51′20″ N., Long. 101°37′10″ E., on left bank near Khao Wang Sai at Ban Chak Khrok,Amphoe Klaeng, Rayong.
Drainage Area	1,280 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+2.63 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank near the Meteorological Station.
Elevation	+13.420 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	1965-1974, 1989 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +7.85 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by the local weir during Dec.8,96-Mar.31,97. discharge estimated by recession equation. Stage-discharge relation defined by 46 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.99	3.12	3.88	4.23	5.53	5.99	9.02	7.16	3.65	4.62	4.59	4.59	
2	2.93	3.11	3.83	4.44	5.29	5.76	9.11	7.96	3.43	4.62	4.59	4.59	
3	2.89	3.10	4.82	4.28	4.92	5.70	8.99	8.32	3.65	4.62	4.59	4.58	
4	2.87	3.06	5.48	4.36	4.69	5.92	8.91	8.66	3.66	4.62	4.59	4.56	
5	2.85	3.02	5.23	4.96	4.99	6.31	8.78	8.47	3.71	4.61	4.59	4.54	
6	2.81	3.01	4.70	5.51	5.02	6.57	8.54	8.12	3.57	4.61	4.59	4.51	
7	2.79	3.01	4.32	5.73	5.19	7.45	8.21	7.81	3.52	4.61	4.59	4.49	
8	2.80	2.99	4.24	5.30	5.37	7.77	7.79	7.50	3.52	4.61	4.58	4.47	
9	2.81	3.01	4.36	5.08	5.70	7.76	7.39	7.08	3.80	4.60	4.57	4.45	
10	2.81	3.10	5.00	5.43	5.35	7.54	7.88	6.68	3.87	4.60	4.57	4.43	
11	2.80	3.37	5.48	5.88	5.50	7.85	8.47	6.23	4.44	4.59	4.56	4.42	
12	2.82	3.52	5.73	5.94	5.66	8.63	8.58	6.02	4.70	4.59	4.56	4.42	
13	2.82	3.35	5.06	5.75	5.27	8.69	8.72	5.85	4.72	4.60	4.57	4.41	
14	2.81	3.62	4.62	5.50	5.11	8.45	8.67	5.70	4.69	4.59	4.56	4.40	
15	2.81	4.29	4.67	5.21	5.02	8.04	8.36	5.59	4.69	4.59	4.56	4.40	
16	2.83	4.60	4.36	5.21	5.07	7.57	7.83	5.50	4.68	4.60	4.56	4.39	
17	2.85	4.26	4.16	5.33	5.05	6.81	6.97	5.32	4.68	4.60	4.55	4.37	
18	2.89	5.03	5.36	5.59	5.05	6.15	6.26	5.19	4.68	4.60	4.55	4.35	
19	2.88	6.05	6.41	5.35	5.95	5.69	6.02	5.09	4.67	4.60	4.56	4.32	
20	2.91	6.18	6.99	5.60	6.15	5.56	6.02	5.03	4.67	4.60	4.57	4.30	
21	2.94	5.99	6.74	5.73	6.59	5.44	6.36	4.96	4.67	4.60	4.58	4.28	
22	3.08	5.90	6.22	6.28	6.88	5.34	6.37	4.88	4.66	4.59	4.60	4.24	
23	3.32	5.96	5.36	6.76	7.50	5.45	6.21	4.78	4.66	4.59	4.60	4.21	
24	3.85	5.59	5.36	6.31	7.42	5.69	5.97	4.71	4.65	4.59	4.59	4.19	
25	3.49	4.78	5.49	5.53	6.96	6.20	5.88	4.55	4.65	4.59	4.59	4.14	
26	3.24	4.20	5.33	5.48	6.38	6.35	6.26	4.44	4.65	4.59	4.60	4.10	
27	3.13	3.97	4.92	5.63	6.10	6.53	6.97	4.37	4.64	4.59	4.60	4.05	
28	3.12	3.81	4.49	6.16	6.08	7.59	7.72	4.05	4.63	4.59	4.60	4.03	
29	3.34	3.66	4.50	6.51	6.07	8.76	7.83	4.04	4.63	4.59		4.02	
30	3.26	3.88	4.26	6.64	6.12	8.91	7.13	3.87	4.63	4.59		4.00	
31		4.04		6.15	6.17		6.55		4.63	4.59		3.98	
Mean	2.99	4.08	5.05	5.54	5.75	6.88	7.54	5.93	4.33	4.60	4.58	4.33	
Max	3.85	6.18	6.99	6.76	7.50	8.91	9.11	8.66	4.72	4.62	4.60	4.59	9.11
Min	2.79	2.99	3.83	4.23	4.69	5.34	5.88	3.87	3.43	4.59	4.55	3.98	2.79

Annual Max Momentary Gage Height 9.15 M (MSL), at 7.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 2.63 M (MSL), River Bed 1.95 M (MSL)
Left Bank Elevation 10.69 M (MSL)
Right Bank Elevation 10.70 M (MSL), Drainage Area 1280 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	1.70	7.24	10.41	24.89	31.35	182.53	53.32	5.40	0.08	0.00	0.00	
2	0.75	1.65	6.84	12.43	21.98	27.96	202.93	83.50	3.77	0.07	0.00	0.00	
3	0.56	1.60	16.52	10.88	17.63	27.15	176.55	105.90	5.40	0.06	0.00	0.00	
4	0.48	1.40	24.26	11.63	15.09	30.30	164.95	133.53	5.48	0.05	0.00	0.00	
5	0.40	1.20	21.26	18.10	18.45	36.15	146.60	117.07	5.88	0.04	0.00	0.00	
6	0.24	1.15	15.20	24.63	18.80	40.48	123.13	93.15	4.78	0.03	0.00	0.00	
7	0.18	1.15	11.25	27.55	20.78	62.08	98.89	76.45	4.42	0.03	0.00	0.00	
8	0.20	1.05	10.51	22.10	22.94	74.65	75.55	63.97	4.42	0.02	0.00	0.00	
9	0.24	1.15	11.63	19.50	27.15	74.20	59.91	51.14	3.74	0.02	0.00	0.00	
10	0.24	1.60	18.57	23.66	22.70	65.48	79.60	42.60	3.16	0.02	0.00	0.00	
11	0.20	3.33	24.26	29.70	24.50	78.25	117.07	34.95	2.68	0.01	0.00	0.00	
12	0.28	4.42	27.55	30.60	26.61	130.93	126.60	31.80	2.26	0.01	0.00	0.00	
13	0.28	3.19	19.27	27.82	21.74	136.13	139.40	29.25	1.92	0.01	0.00	0.00	
14	0.24	5.16	14.35	24.50	19.85	115.33	134.40	27.15	1.62	0.01	0.00	0.00	
15	0.24	10.97	14.88	21.02	18.80	88.05	108.45	25.67	1.37	0.01	0.00	0.00	
16	0.32	14.13	11.63	21.02	19.38	66.61	77.35	24.50	1.16	0.01	0.00	0.00	
17	0.40	10.69	9.76	22.46	19.15	45.20	48.61	22.34	0.98	0.01	0.00	0.00	
18	0.56	18.92	22.82	25.67	19.15	33.75	35.40	20.78	0.83	0.00	0.00	0.00	
19	0.52	32.25	37.67	22.70	30.75	27.01	31.80	19.62	0.70	0.00	0.00	0.00	
20	0.65	34.20	49.07	25.80	33.75	25.28	31.80	18.92	0.59	0.00	0.00	0.00	
21	0.80	31.35	43.80	27.55	40.83	23.78	36.90	18.10	0.50	0.00	0.00	0.00	
22	1.50	30.00	34.80	35.70	46.60	22.58	37.05	17.18	0.43	0.00	0.00	0.00	
23	2.97	30.90	22.82	44.20	63.97	23.90	34.65	16.08	0.36	0.00	0.00	0.00	
24	7.00	25.67	22.82	36.15	60.95	27.01	31.05	15.31	0.30	0.00	0.00	0.00	
25	4.20	16.08	24.38	24.89	48.38	34.50	29.70	13.60	0.26	0.00	0.00	0.00	
26	2.39	10.13	22.46	24.26	37.20	36.75	35.40	12.43	0.22	0.00	0.00	0.00	
27	1.75	8.03	17.63	26.21	33.00	39.78	48.61	11.72	0.18	0.00	0.00	0.00	
28	1.70	6.68	12.96	33.90	32.70	67.36	72.41	8.75	0.16	0.00	0.00	0.00	
29	3.11	5.48	13.07	39.43	32.55	144.20	77.35	8.66	0.13	0.00		0.00	
30	2.53	7.24	10.69	41.80	33.30	164.95	52.46	7.16	0.11	0.00		0.00	
31		8.66		33.75	34.05		40.13		0.09	0.00		0.00	
Total	35.98	331.13	599.97	800.02	907.62	1801.15	2657.23	1204.60	63.30	0.49	0.00	0.00	8401.49 CMSDAY
Mean	1.20	10.68	20.00	25.81	29.28	60.04	85.72	40.15	2.04	0.02	0.00	0.00	23.02 CMS
Max	7.00	34.20	49.07	44.20	63.97	164.95	202.93	133.53	5.88	0.08	0.00	0.00	202.93 CMS
Min	0.18	1.05	6.84	10.41	15.09	22.58	29.70	7.16	0.09	0.00	0.00	0.00	0.00 CMS
Runoff	3.109	28.610	51.837	69.122	78.418	155.619	229.585	104.077	5.469	0.042	0.000	0.000	725.889 MCM

Momentary Peak 212.00 CMS, at 9.15 M (MSL), at 7.00 Hours, on Oct 2, 1996

Runoff Yield 17.98 Liters/Second/Square KM, Momentary Peak Yield 165.625 Liters/Second/Square KM

WATER YEAR 1996

EAST COAST-GULF BASIN

Chanthaburi River at Ban Puk, Chanthaburi (Z.13)

Location	Lat. 12°-45′-40″ N., Long. 102°-18′-35″ E., on left bank infront of Wat Ban Puk, Amphoe Makham, Chanthaburi.
Drainage Area	671 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+6.30 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 20 meters from the top staff gage.
Elevation	+14.374 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	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 good. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

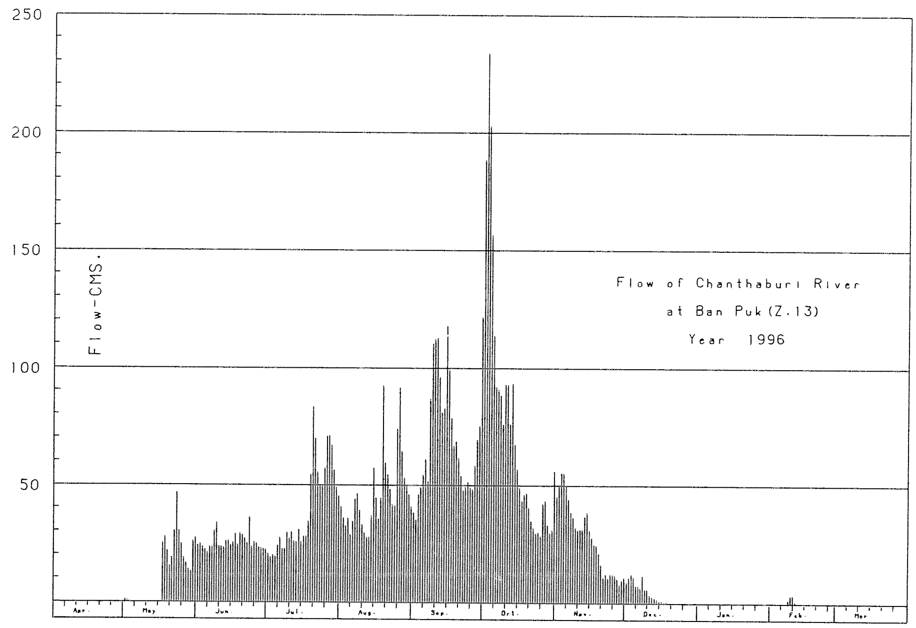
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.08	6.46	7.27	7.14	7.75	7.69	10.99	7.88	6.74	6.11	5.98	5.96	
2	6.08	6.45	7.28	7.10	7.63	7.60	11.85	8.01	6.80	6.13	5.98	5.94	
3	6.10	6.42	7.25	7.12	7.53	7.90	11.26	8.14	6.86	6.16	6.02	5.93	
4	6.10	6.40	7.20	7.11	7.62	7.97	10.36	8.13	6.81	6.18	6.07	5.94	
5	6.10	6.38	7.17	7.27	7.42	8.11	9.46	8.01	6.68	6.20	6.16	5.97	
6	6.10	6.34	7.24	7.37	7.59	8.28	8.99	7.84	6.69	6.21	6.24	5.95	
7	6.10	6.17	7.25	7.21	7.84	8.05	8.96	7.70	6.65	6.15	6.38	5.93	
8	6.14	6.18	7.46	7.22	7.90	8.87	8.91	7.63	6.84	6.12	6.47	5.93	
9	6.13	6.18	7.57	7.45	7.72	9.39	8.63	7.52	6.64	6.07	6.53	5.93	
10	6.14	6.15	7.26	7.37	7.55	9.42	9.01	7.48	6.63	6.07	6.55	5.93	
11	6.11	6.12	7.24	7.45	7.44	9.43	9.00	7.50	6.55	6.07	6.44	5.93	
12	6.12	6.10	7.24	7.32	7.39	9.07	8.64	7.49	6.51	6.07	6.38	5.93	
13	6.14	6.14	7.32	7.32	7.38	8.75	9.01	7.65	6.50	6.03	6.35	5.93	
14	6.10	6.14	7.33	7.49	7.65	8.78	8.44	7.69	6.47	6.01	6.32	5.93	
15	6.14	6.24	7.27	7.31	8.19	9.55	8.17	7.49	6.45	6.00	6.27	5.93	
16	6.16	6.33	7.30	7.39	7.86	9.14	7.97	7.38	6.44	5.99	6.24	5.93	
17	6.15	7.30	7.43	7.40	7.62	8.70	7.83	7.29	6.43	5.99	6.17	5.93	
18	6.15	7.38	7.27	7.58	7.85	8.42	7.89	7.27	6.43	5.99	6.11	5.93	
19	6.14	7.19	7.43	8.12	8.99	8.47	7.92	7.17	6.42	5.99	6.06	5.93	
20	6.13	6.97	7.41	8.80	8.24	8.29	7.74	6.99	6.42	5.99	6.03	5.93	
21	6.12	7.08	7.37	8.49	8.12	8.10	7.60	6.81	6.40	5.97	6.02	5.93	
22	6.11	7.47	7.30	8.14	7.96	7.95	7.51	6.85	6.40	5.96	6.00	5.93	
23	6.10	7.92	7.63	8.00	7.78	7.98	7.45	6.80	6.40	5.98	5.96	5.93	
24	6.10	7.46	7.24	8.00	7.77	8.04	7.45	6.85	6.35	6.00	5.96	5.93	
25	6.10	7.29	7.31	8.19	8.59	7.98	7.41	6.86	6.33	5.98	5.96	5.93	
26	6.11	7.08	7.30	8.52	8.98	7.95	7.79	6.83	6.31	5.98	5.96	5.93	
27	6.11	7.01	7.24	8.52	8.36	8.22	7.82	6.79	6.30	5.98	5.96	5.93	
28	6.11	6.91	7.22	8.43	8.08	8.48	7.55	6.71	6.27	5.98	5.96	5.93	
29	6.11	6.89	7.22	8.16	8.00	8.62	7.45	6.76	6.15	5.98		5.93	
30	6.16	7.32	7.20	7.98	7.89	9.62	7.48	6.80	6.06	5.98		5.93	
31		7.37		7.87	7.75		8.15		6.10	5.98		5.93	
Mean	6.12	6.74	7.31	7.70	7.89	8.49	8.54	7.34	6.48	6.04	6.16	5.93	
Max	6.16	7.92	7.63	8.80	8.99	9.62	11.85	8.14	6.86	6.21	6.55	5.97	11.85
Min	6.08	6.10	7.17	7.10	7.38	7.60	7.41	6.71	6.06	5.96	5.96	5.93	5.93

Annual Max Momentary Gage Height 12.01 M (MSL), at 16.00 Hours, on Oct 2, 1996

Zero Gage at Bottom Elevation 6.30 M (MSL), River Bed 5.49 M (MSL)

Left Bank Elevation 14.38 M (MSL)

Right Bank Elevation 14.27 M (MSL), Drainage Area 671 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.50	24.60	20.76	40.85	38.63	188.47	45.66	9.16	0.00	0.00	0.00	
2	0.00	1.25	24.90	19.60	36.41	35.30	234.05	50.49	10.90	0.00	0.00	0.00	
3	0.00	0.50	24.00	20.18	32.78	46.40	202.78	55.60	12.64	0.00	0.00	0.00	
4	0.00	0.00	22.50	19.89	36.04	48.99	156.84	55.20	11.19	0.00	0.00	0.00	
5	0.00	0.00	21.63	24.60	29.14	54.40	113.96	50.49	7.42	0.00	0.00	0.00	
6	0.00	0.00	23.70	27.60	34.94	61.20	92.34	44.18	7.71	0.00	0.00	0.00	
7	0.00	0.00	24.00	22.80	44.18	52.05	90.96	39.00	6.55	0.00	0.00	0.00	
8	0.00	0.00	30.42	23.10	46.40	86.82	88.66	36.41	12.06	0.00	1.75	0.00	
9	0.00	0.00	34.22	30.10	39.74	110.74	75.92	32.42	6.26	0.00	3.28	0.00	
10	0.00	0.00	24.30	27.60	33.50	112.12	93.26	31.06	5.97	0.00	3.80	0.00	
11	0.00	0.00	23.70	30.10	29.78	112.58	92.80	31.70	3.80	0.00	1.00	0.00	
12	0.00	0.00	23.70	26.10	28.20	96.02	76.36	31.38	2.76	0.00	0.00	0.00	
13	0.00	0.00	26.10	26.10	27.90	81.30	93.26	37.15	2.50	0.00	0.00	0.00	
14	0.00	0.00	26.40	31.38	37.15	82.68	67.68	38.63	1.75	0.00	0.00	0.00	
15	0.00	0.00	24.60	25.80	57.60	118.15	56.80	31.38	1.25	0.00	0.00	0.00	
16	0.00	0.00	25.50	28.20	44.92	99.24	48.99	27.90	1.00	0.00	0.00	0.00	
17	0.00	25.50	29.46	28.50	36.04	79.00	43.81	25.20	0.75	0.00	0.00	0.00	
18	0.00	27.90	24.60	34.58	44.55	66.84	46.03	24.60	0.75	0.00	0.00	0.00	
19	0.00	22.21	29.46	54.80	92.34	68.94	47.14	21.63	0.50	0.00	0.00	0.00	
20	0.00	15.83	28.82	83.60	59.60	61.60	40.48	16.41	0.50	0.00	0.00	0.00	
21	0.00	19.02	27.60	69.78	54.80	54.00	35.30	11.19	0.00	0.00	0.00	0.00	
22	0.00	30.74	25.50	55.60	48.62	48.25	32.06	12.35	0.00	0.00	0.00	0.00	
23	0.00	47.14	36.41	50.10	41.96	49.36	30.10	10.90	0.00	0.00	0.00	0.00	
24	0.00	30.42	23.70	50.10	41.59	51.66	30.10	12.35	0.00	0.00	0.00	0.00	
25	0.00	25.20	25.80	57.60	74.16	49.36	28.82	12.64	0.00	0.00	0.00	0.00	
26	0.00	19.02	25.50	71.08	91.88	48.25	42.33	11.77	0.00	0.00	0.00	0.00	
27	0.00	16.99	23.70	71.08	64.40	58.80	43.44	10.61	0.00	0.00	0.00	0.00	
28	0.00	14.09	23.10	67.26	53.22	69.36	33.50	8.29	0.00	0.00	0.00	0.00	
29	0.00	13.51	23.10	56.40	50.10	75.48	30.10	9.74	0.00	0.00		0.00	
30	0.00	26.10	22.50	49.36	46.03	121.44	31.06	10.90	0.00	0.00		0.00	
31		27.60		45.29	40.85		56.00		0.00	0.00		0.00	
Total	0.00	364.52	773.52	1249.04	1439.67	2138.96	2343.40	837.23	105.42	0.00	9.83	0.00	9261.59 CMSDAY
Mean	0.00	11.76	25.78	40.29	46.44	71.30	75.59	27.91	3.40	0.00	0.35	0.00	25.37 CMS
Max	0.00	47.14	36.41	83.60	92.34	121.44	234.05	55.60	12.64	0.00	3.80	0.00	234.05 CMS
Min	0.00	0.00	21.63	19.60	27.90	35.30	28.82	8.29	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	31.495	66.832	107.917	124.387	184.806	202.470	72.337	9.108	0.000	0.849	0.000	800.202 MCM

Momentary Peak 242.53 CMS, at 12.01 M (MSL), at 16.00 Hours, on Oct 2, 1996
Runoff Yield 37.82 Liters/Second/Square KM, Momentary Peak Yield 361.446 Liters/Second/Square KM

WATER YEAR 1996

EAST COAST-GULF BASIN

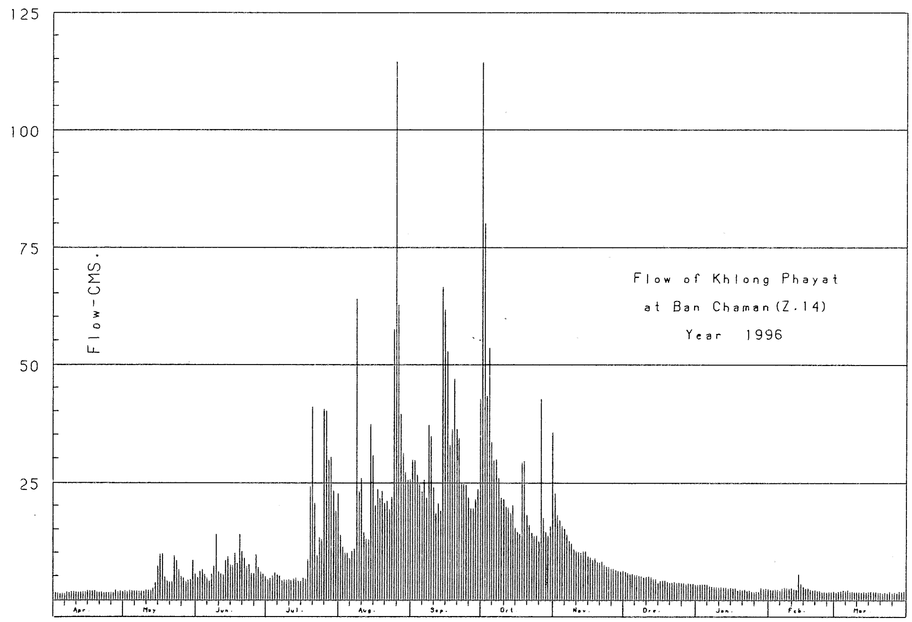
Khlong Phayat at Ban Chaman, Chanthaburi (Z.14)

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	+5.40 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from the top staff gage.
Elevation	+13.570 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	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 +13.36 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.23	6.28	6.59	6.55	7.31	8.25	11.50	7.86	6.70	6.43	6.32	6.24	
2	6.21	6.27	6.70	6.56	7.12	8.25	10.36	7.59	6.67	6.45	6.30	6.25	
3	6.20	6.29	6.75	6.62	7.03	8.08	8.89	7.53	6.65	6.44	6.33	6.28	
4	6.20	6.29	6.64	6.67	7.02	7.96	9.34	7.44	6.65	6.45	6.31	6.29	
5	6.21	6.28	6.57	6.64	6.94	7.88	8.45	7.40	6.64	6.44	6.30	6.29	
6	6.24	6.27	6.52	6.61	7.05	8.01	8.24	7.31	6.63	6.41	6.34	6.30	
7	6.24	6.27	6.66	6.53	7.09	7.80	8.26	7.22	6.62	6.39	6.38	6.26	
8	6.25	6.27	6.80	6.53	9.78	8.63	8.04	7.17	6.60	6.39	6.35	6.25	
9	6.27	6.28	7.32	6.54	7.88	8.51	7.80	7.09	6.59	6.38	6.35	6.25	
10	6.24	6.30	6.70	6.55	8.03	7.93	7.79	7.05	6.59	6.38	6.36	6.25	
11	6.24	6.29	6.65	6.52	7.35	7.61	7.70	7.05	6.61	6.38	6.32	6.24	
12	6.25	6.30	6.64	6.56	7.24	7.74	7.68	7.02	6.59	6.38	6.32	6.24	
13	6.25	6.35	6.90	6.57	7.24	7.65	7.62	7.06	6.56	6.37	6.64	6.25	
14	6.25	6.48	6.96	6.52	8.63	9.87	7.71	7.05	6.55	6.35	6.45	6.24	
15	6.29	6.81	6.83	6.50	8.30	9.68	7.41	6.98	6.48	6.36	6.40	6.25	
16	6.28	7.00	6.81	6.57	7.71	9.31	7.35	6.95	6.51	6.36	6.34	6.25	
17	6.29	7.02	7.02	6.56	7.91	8.42	7.31	6.92	6.53	6.35	6.36	6.26	
18	6.28	6.59	6.86	6.92	7.80	8.58	8.22	6.94	6.52	6.30	6.31	6.24	
19	6.26	6.52	7.32	7.94	7.88	9.05	8.23	6.88	6.51	6.31	6.31	6.24	
20	6.25	6.49	7.05	8.79	7.74	8.59	7.60	6.86	6.47	6.31	6.30	6.22	
21	6.24	6.51	6.95	7.74	7.77	8.49	7.45	6.89	6.49	6.31	6.29	6.22	
22	6.23	6.98	6.79	6.99	7.67	7.98	7.34	6.82	6.49	6.29	6.28	6.22	
23	6.22	6.91	6.84	7.27	7.81	7.96	7.28	6.80	6.48	6.29	6.25	6.22	
24	6.23	6.73	6.66	7.23	9.51	7.96	7.29	6.79	6.48	6.26	6.24	6.25	
25	6.23	6.61	6.67	8.77	11.50	7.81	7.21	6.76	6.48	6.25	6.25	6.22	
26	6.23	6.57	7.00	8.76	9.72	7.67	8.87	6.75	6.47	6.25	6.24	6.23	
27	6.30	6.51	6.77	8.25	8.73	7.68	7.55	6.73	6.45	6.26	6.25	6.22	
28	6.26	6.53	6.69	8.28	8.33	7.78	7.35	6.70	6.46	6.36	6.26	6.26	
29	6.27	6.55	6.64	7.89	8.10	7.90	7.29	6.70	6.46	6.34		6.26	
30	6.27	6.90	6.60	7.65	8.02	8.87	7.44	6.71	6.45	6.34		6.26	
31		6.65		7.85	8.02		8.55		6.44	6.33		6.26	
Mean	6.25	6.52	6.80	7.16	8.01	8.26	8.04	7.03	6.54	6.35	6.33	6.25	
Max	6.30	7.02	7.32	8.79	11.50	9.87	11.50	7.86	6.70	6.45	6.64	6.30	11.50
Min	6.20	6.27	6.52	6.50	6.94	7.61	7.21	6.70	6.44	6.25	6.24	6.22	6.20

Annual Max Momentary Gage Height 13.39 M (MSL), at 15.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 5.40 M (MSL), River Bed -0.22 M (MSL)
Left Bank Elevation 8.42 M (MSL)
Right Bank Elevation 7.95 M (MSL), Drainage Area 245 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.71	2.06	4.99	4.55	14.04	29.90	114.70	22.88	6.20	3.30	2.36	1.78	
2	1.57	1.99	6.20	4.66	11.38	29.90	80.24	18.14	5.87	3.50	2.20	1.85	
3	1.50	2.13	6.75	5.32	10.19	26.84	43.37	17.18	5.65	3.40	2.44	2.06	
4	1.50	2.13	5.54	5.87	10.06	24.68	53.72	15.86	5.65	3.50	2.28	2.13	
5	1.57	2.06	4.77	5.54	9.02	23.24	33.65	15.30	5.54	3.40	2.20	2.13	
6	1.78	1.99	4.22	5.21	10.45	25.58	29.72	14.04	5.43	3.10	2.52	2.20	
7	1.78	1.99	5.76	4.33	10.97	21.80	30.08	12.78	5.32	2.92	2.84	1.92	
8	1.85	1.99	7.30	4.33	64.20	37.39	26.12	12.08	5.10	2.92	2.60	1.85	
9	1.99	2.06	14.18	4.44	23.24	34.81	21.80	10.97	4.99	2.84	2.60	1.85	
10	1.78	2.20	6.20	4.55	25.94	24.14	21.62	10.45	4.99	2.84	2.68	1.85	
11	1.78	2.13	5.65	4.22	14.60	18.47	20.00	10.45	5.21	2.84	2.36	1.78	
12	1.85	2.20	5.54	4.66	13.06	20.72	19.66	10.06	4.99	2.84	2.36	1.78	
13	1.85	2.60	8.50	4.77	13.06	19.15	18.64	10.58	4.66	2.76	5.54	1.85	
14	1.85	3.80	9.28	4.22	37.39	66.52	20.18	10.45	4.55	2.60	3.50	1.78	
15	2.13	7.42	7.66	4.00	30.80	61.72	15.44	9.54	3.80	2.68	3.00	1.85	
16	2.06	9.80	7.42	4.77	20.18	53.03	14.60	9.15	4.11	2.68	2.52	1.85	
17	2.13	10.06	10.06	4.66	23.78	33.08	14.04	8.76	4.33	2.60	2.68	1.92	
18	2.06	4.99	8.02	8.76	21.80	36.28	29.36	9.02	4.22	2.20	2.28	1.78	
19	1.92	4.22	14.18	24.32	23.24	47.05	29.54	8.26	4.11	2.28	2.28	1.78	
20	1.85	3.90	10.45	41.07	20.72	36.49	18.30	8.02	3.70	2.28	2.20	1.64	
21	1.78	4.11	9.15	20.72	21.26	34.41	16.00	8.38	3.90	2.28	2.13	1.64	
22	1.71	9.54	7.19	9.67	19.49	25.04	14.46	7.54	3.90	2.13	2.06	1.64	
23	1.64	8.63	7.78	13.48	21.98	24.68	13.62	7.30	3.80	2.13	1.85	1.64	
24	1.71	6.53	5.76	12.92	57.64	24.68	13.76	7.19	3.80	1.92	1.78	1.85	
25	1.71	5.21	5.87	40.61	114.70	21.98	12.64	6.86	3.80	1.85	1.85	1.64	
26	1.71	4.77	9.80	40.38	62.70	19.49	42.91	6.75	3.70	1.85	1.78	1.71	
27	2.20	4.11	6.97	29.90	39.69	19.66	17.50	6.53	3.50	1.92	1.85	1.64	
28	1.92	4.33	6.09	30.44	31.37	21.44	14.60	6.20	3.60	2.68	1.92	1.92	
29	1.99	4.55	5.54	23.42	27.20	23.60	13.76	6.20	3.60	2.52		1.92	
30	1.99	8.50	5.10	19.15	25.76	42.91	15.86	6.31	3.50	2.52		1.92	
31		5.65		22.70	25.76		35.65		3.40	2.44		1.92	
Total	54.87	137.65	221.92	417.64	855.67	928.68	865.54	313.23	138.92	81.72	68.66	57.07	4141.57 CMSDAY
Mean	1.83	4.44	7.40	13.47	27.60	30.96	27.92	10.44	4.48	2.64	2.45	1.84	11.35 CMS
Max	2.20	10.06	14.18	41.07	114.70	66.52	114.70	22.88	6.20	3.50	5.54	2.20	114.70 CMS
Min	1.50	1.99	4.22	4.00	9.02	18.47	12.64	6.20	3.40	1.85	1.78	1.64	1.50 CMS
Runoff	4.741	11.893	19.174	36.084	73.930	80.238	74.783	27.063	12.003	7.061	5.932	4.931	357.832 MCM

Momentary Peak 179.15 CMS, at 13.39 M (MSL), at 15.00 Hours, on Oct 1, 1996

Runoff Yield 46.31 Liters/Second/Square KM, Momentary Peak Yield 731.224 Liters/Second/Square KM

WATER YEAR 1996

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, Amphoe Pluak Daeng, Rayong.

Drainage Area 244 sq.km.

Type of Gage Staff gage.

Zero Gage at Bottom +29.00 m.(M.S.L.)

Bench Mark B.M.-H.D.

Location Near the Meteorological Station.

Elevation +33.743 m.(M.S.L.)

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

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

Period of Available Gage Records 1977 to date.

Rating Operation

Period of Rating 1977 to date.

Rated by Float -

Rated by Current Meter 1977 to date.

Stability of Channel Regimes Fairly stable.

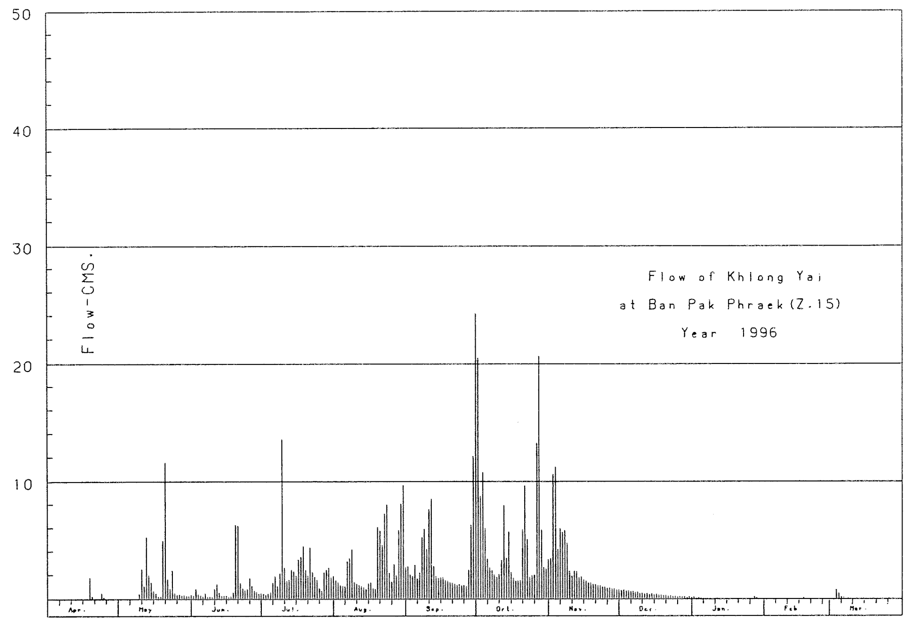
Overbank Flow Conditions No overbank flow.

General Description Records good. Stage-discharge relation defined by 101 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.68	28.69	28.94	29.03	29.62	30.02	31.75	30.14	29.20	28.89	28.82	28.78	
2	28.68	28.71	29.26	29.00	29.51	29.85	30.97	31.14	29.19	28.88	28.81	28.77	
3	28.68	28.70	29.03	29.03	29.41	29.78	31.16	31.20	29.18	28.87	28.80	29.20	
4	28.68	28.69	28.95	29.11	29.35	30.05	30.46	30.23	29.16	28.87	28.79	29.08	
5	28.68	28.68	28.93	29.52	29.36	29.70	30.14	30.48	29.15	28.86	28.79	28.92	
6	28.68	28.67	29.05	29.76	30.12	29.88	29.99	30.38	29.13	28.86	28.80	28.87	
7	28.68	28.66	28.93	29.34	30.14	30.34	29.95	30.41	29.12	28.86	28.79	28.86	
8	28.66	28.76	28.90	29.88	30.23	30.44	29.83	30.28	29.10	28.85	28.79	28.85	
9	28.70	29.03	28.89	31.38	29.55	30.23	29.75	29.92	29.08	28.85	28.79	28.85	
10	28.68	29.98	29.26	29.99	29.45	30.83	29.84	29.81	29.06	28.84	28.78	28.83	
11	28.71	29.38	29.47	29.59	29.43	30.94	30.12	29.94	29.05	28.84	28.78	28.83	
12	28.73	30.34	29.07	29.63	29.35	30.04	30.88	29.92	29.04	28.83	28.78	28.82	
13	28.70	29.82	28.96	29.96	29.30	29.78	30.15	29.75	29.02	28.83	28.79	28.81	
14	28.70	29.54	28.94	29.92	29.25	29.72	30.39	29.76	29.03	28.81	28.82	28.80	
15	28.70	29.17	28.95	29.82	29.50	29.74	29.89	29.66	29.01	28.83	28.80	28.79	
16	28.70	29.04	28.92	30.13	29.51	29.73	29.70	29.58	29.01	28.84	28.80	28.79	
17	28.70	28.94	28.92	30.16	29.29	29.63	29.60	29.53	28.99	28.84	28.89	28.78	
18	29.75	28.92	29.11	30.26	29.24	29.57	29.58	29.49	28.97	28.82	28.80	28.77	
19	28.94	30.30	30.58	29.96	30.50	29.53	29.62	29.46	28.97	28.82	28.79	28.76	
20	28.83	31.24	30.58	29.80	30.40	29.48	30.42	29.43	28.96	28.81	28.79	28.76	
21	28.77	29.65	29.48	30.24	30.26	29.44	31.05	29.41	28.95	28.81	28.79	28.76	
22	28.76	29.27	29.28	29.91	30.79	29.42	30.32	29.38	28.94	28.81	28.78	28.76	
23	29.08	29.95	29.17	29.74	30.88	29.42	29.76	29.35	28.94	28.81	28.78	28.76	
24	28.88	29.05	29.25	29.65	29.89	29.40	29.81	29.32	28.92	28.81	28.77	28.76	
25	28.79	29.00	29.72	29.28	29.57	29.38	29.82	29.30	28.92	28.82	28.77	28.78	
26	28.77	29.00	29.35	29.14	30.08	29.37	31.36	29.28	28.91	28.82	28.77	28.77	
27	28.76	28.98	29.18	29.89	29.80	29.96	31.76	29.26	28.92	28.93	28.77	28.76	
28	28.75	28.96	29.10	29.96	30.41	30.58	30.43	29.25	28.90	28.86	28.77	28.76	
29	28.75	28.95	29.04	29.99	30.89	31.28	30.00	29.22	28.90	28.82		28.76	
30	28.77	28.92	29.04	29.76	31.06	31.90	29.98	29.20	28.90	28.82		28.76	
31		28.97		29.77	30.00		30.13		28.90	28.81		28.76	
Mean	28.78	29.22	29.21	29.76	29.88	29.98	30.28	29.78	29.02	28.84	28.79	28.82	
Max	29.75	31.24	30.58	31.38	31.06	31.90	31.76	31.20	29.20	28.93	28.89	29.20	31.90
Min	28.66	28.66	28.89	29.00	29.24	29.37	29.58	29.20	28.90	28.81	28.77	28.76	28.66

Annual Max Momentary Gage Height 32.03 M (MSL), at 18.00 Hours, on Sep 30, 1996
Zero Gage at Bottom Elevation 29.00 M (MSL), River Bed 27.85 M (MSL)
Left Bank Elevation 33.14 M (MSL)
Right Bank Elevation 33.15 M (MSL), Drainage Area 244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.280	0.460	1.640	2.780	20.475	3.473	0.800	0.180	0.040	0.000	
2	0.000	0.000	0.920	0.400	1.420	2.150	8.830	10.640	0.780	0.160	0.020	0.000	
3	0.000	0.000	0.460	0.460	1.220	1.960	10.860	11.300	0.760	0.140	0.000	0.800	
4	0.000	0.000	0.300	0.620	1.100	2.900	6.040	4.313	0.720	0.140	0.000	0.560	
5	0.000	0.000	0.260	1.440	1.120	1.800	3.473	6.087	0.700	0.120	0.000	0.240	
6	0.000	0.000	0.500	1.920	3.287	2.240	2.660	5.713	0.660	0.120	0.000	0.140	
7	0.000	0.000	0.260	1.080	3.473	5.340	2.500	5.923	0.640	0.120	0.000	0.120	
8	0.000	0.000	0.200	2.240	4.313	5.993	2.090	4.780	0.600	0.100	0.000	0.100	
9	0.000	0.460	0.180	13.653	1.500	4.313	1.900	2.380	0.560	0.100	0.000	0.100	
10	0.000	2.620	0.920	2.660	1.300	7.640	2.120	2.030	0.520	0.080	0.000	0.060	
11	0.000	1.160	1.340	1.580	1.260	8.560	3.287	2.460	0.500	0.080	0.000	0.060	
12	0.000	5.340	0.540	1.660	1.100	2.860	8.040	2.380	0.480	0.060	0.000	0.040	
13	0.000	2.060	0.320	2.540	1.000	1.960	3.567	1.900	0.440	0.060	0.000	0.020	
14	0.000	1.480	0.280	2.380	0.900	1.840	5.807	1.920	0.460	0.020	0.040	0.000	
15	0.000	0.740	0.300	2.060	1.400	1.880	2.270	1.720	0.420	0.060	0.000	0.000	
16	0.000	0.480	0.240	3.380	1.420	1.860	1.800	1.560	0.420	0.080	0.000	0.000	
17	0.000	0.280	0.240	3.660	0.980	1.660	1.600	1.460	0.380	0.080	0.180	0.000	
18	1.900	0.240	0.620	4.593	0.880	1.540	1.560	1.380	0.340	0.040	0.000	0.000	
19	0.280	4.967	6.320	2.540	6.133	1.460	1.640	1.320	0.340	0.040	0.000	0.000	
20	0.060	11.740	6.320	2.000	5.900	1.360	5.947	1.260	0.320	0.020	0.000	0.000	
21	0.000	1.700	1.360	4.407	4.593	1.280	9.650	1.220	0.300	0.020	0.000	0.000	
22	0.000	0.940	0.960	2.340	7.320	1.240	5.153	1.160	0.280	0.020	0.000	0.000	
23	0.560	2.500	0.740	1.880	8.040	1.240	1.920	1.100	0.280	0.020	0.000	0.000	
24	0.160	0.500	0.900	1.700	2.270	1.200	2.030	1.040	0.240	0.020	0.000	0.000	
25	0.000	0.400	1.840	0.960	1.540	1.160	2.060	1.000	0.240	0.040	0.000	0.000	
26	0.000	0.400	1.100	0.680	3.020	1.140	13.340	0.960	0.220	0.040	0.000	0.000	
27	0.000	0.360	0.760	2.270	2.000	2.540	20.700	0.920	0.240	0.260	0.000	0.000	
28	0.000	0.320	0.600	2.540	5.923	6.320	5.970	0.900	0.200	0.120	0.000	0.000	
29	0.000	0.300	0.480	2.660	8.120	12.180	2.700	0.840	0.200	0.040		0.000	
30	0.000	0.240	0.480	1.920	9.760	24.300	2.620	0.800	0.200	0.040		0.000	
31		0.340		1.940	2.700		3.380		0.200	0.020		0.000	
Total	2.960	39.567	30.020	74.623	96.632	114.696	165.989	83.939	13.440	2.440	0.280	2.240	626.826 CMSDAY
Mean	0.099	1.276	1.001	2.407	3.117	3.823	5.354	2.798	0.434	0.079	0.010	0.072	1.717 CMS
Max	1.900	11.740	6.320	13.653	9.760	24.300	20.700	11.300	0.800	0.260	0.180	0.800	24.300 CMS
Min	0.000	0.000	0.180	0.400	0.880	1.140	1.560	0.800	0.200	0.020	0.000	0.000	0.000 CMS
Runoff	0.256	3.419	2.594	6.447	8.349	9.910	14.341	7.252	1.161	0.211	0.024	0.194	54.158 MCM

Momentary Peak 29.10 CMS, at 32.03 M (MSL), at 18.00 Hours, on Sep 30, 1996

Runoff Yield 7.04 Liters/Second/Square KM, Momentary Peak Yield 119.262 Liters/Second/Square KM

WATER YEAR 1996

EAST COAST-GULF BASIN

Khlong Phlo at Ban Chamkho, Rayong (Z.18)

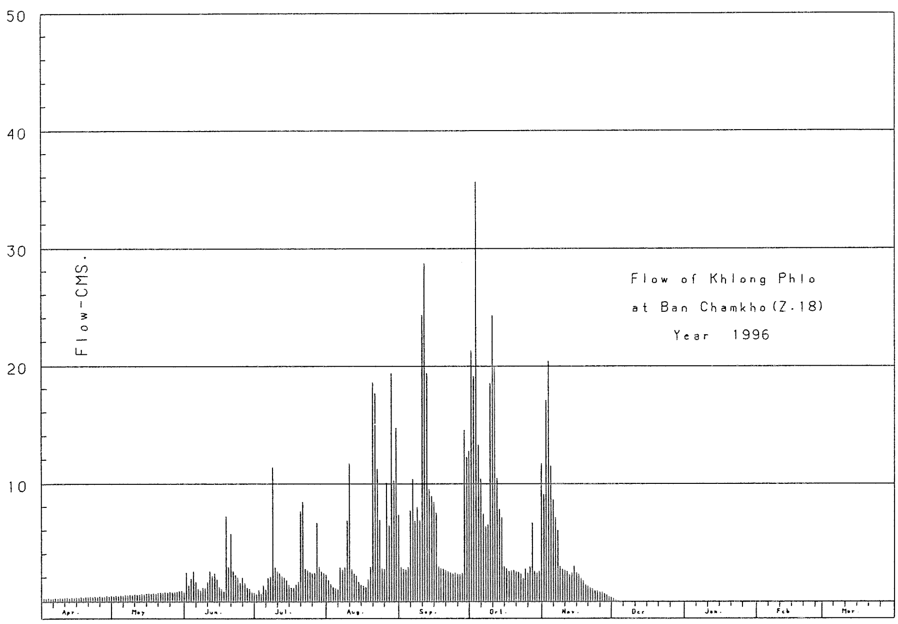
Location — Lat. 12°-57′-22″ N., Long. 101°-40′-31″ E., on right bank at the bridge on road, Ban Chamkho, Amphoe Klaeng, Rayong.

Drainage Area	167 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+28.14 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the top of staff gage.
Elevation	+34.146 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 good. Flow regulated by Rural Development Office weir during Apr.1-May 31,96, discharge estimated by recession equation. Stage-discharge relation defined by 62 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.76	30.20	29.99	29.62	29.85	30.25	31.39	30.60	29.41	30.85	30.47	30.30	
2	29.74	30.17	29.79	29.70	29.80	30.14	31.26	31.14	29.38	30.84	30.44	30.27	
3	29.68	30.16	29.86	29.64	29.76	30.14	32.12	31.34	29.37	30.82	30.42	30.30	
4	29.64	30.15	30.07	29.78	29.73	30.22	30.90	30.78	29.35	30.79	30.39	30.29	
5	29.62	30.15	29.83	29.72	29.72	30.50	30.70	30.57	29.33	30.75	30.37	30.30	
6	29.59	30.15	29.73	29.87	30.21	30.70	30.47	30.44	29.32	30.73	30.34	30.32	
7	29.58	30.15	29.69	29.88	30.14	30.41	30.37	30.34	29.31	30.73	30.32	30.31	
8	29.54	30.13	29.75	30.77	30.21	30.52	30.38	30.26	29.29	30.70	30.32	30.28	
9	29.52	30.16	29.73	30.25	30.42	30.42	31.23	30.17	29.29	30.68	30.34	30.26	
10	29.49	30.18	29.83	30.07	30.79	31.55	31.55	30.10	29.36	30.66	30.35	30.23	
11	29.46	30.18	30.05	29.96	30.14	31.78	31.31	30.05	30.40	30.64	30.32	30.19	
12	29.45	30.16	29.89	29.89	29.98	31.28	30.70	29.93	30.85	30.64	30.28	30.18	
13	29.49	30.15	29.99	29.87	29.89	30.63	30.51	29.98	30.87	30.61	30.31	30.15	
14	29.51	30.39	29.86	29.85	29.83	30.59	30.44	30.30	30.86	30.57	30.36	30.13	
15	29.55	30.43	29.76	29.79	29.80	30.55	30.28	30.02	30.86	30.54	30.37	30.08	
16	29.58	30.40	29.72	29.74	29.77	30.48	30.17	29.93	30.87	30.54	30.37	30.05	
17	29.59	30.56	29.68	29.75	29.76	30.28	30.08	29.87	30.88	30.53	30.40	30.03	
18	29.57	31.46	30.45	29.79	29.85	30.17	30.08	29.84	30.83	30.51	30.56	30.02	
19	29.55	31.40	30.23	29.83	30.23	30.18	30.13	29.80	30.67	30.50	30.55	29.98	
20	29.52	30.68	30.31	30.49	31.23	30.10	30.04	29.77	30.79	30.50	30.56	29.94	
21	29.66	30.57	30.08	30.55	31.18	30.08	30.05	29.75	30.80	30.49	30.54	29.89	
22	30.53	30.43	29.91	30.17	30.76	30.00	29.94	29.73	30.78	30.47	30.48	29.87	
23	30.16	30.00	29.87	30.08	30.42	29.97	29.87	29.70	30.78	30.45	30.44	29.81	
24	30.15	29.86	29.82	30.03	30.20	29.99	30.16	29.69	30.77	30.45	30.40	29.77	
25	30.15	29.76	29.87	29.95	30.14	29.96	30.01	29.67	30.81	30.45	30.39	29.75	
26	30.14	29.70	29.81	30.00	30.67	29.92	30.24	29.66	30.85	30.44	30.37	29.75	
27	30.16	29.67	29.75	30.40	30.38	30.00	30.40	29.64	30.87	30.42	30.34	29.80	
28	30.16	29.66	29.72	30.24	31.28	30.98	30.09	29.60	30.84	30.45	30.31	29.82	
29	30.15	29.69	29.66	30.07	30.69	30.83	29.98	29.46	30.87	30.49		29.82	
30	30.17	29.68	29.64	29.96	30.99	30.86	30.09	29.44	30.87	30.48		29.80	
31		29.65		29.91	30.46		30.79		30.86	30.48		29.80	
Mean	29.76	30.20	29.88	29.99	30.27	30.45	30.51	30.05	30.34	30.59	30.40	30.05	
Max	30.53	31.46	30.45	30.77	31.28	31.78	32.12	31.34	30.88	30.85	30.56	30.32	32.12
Min	29.45	29.65	29.64	29.62	29.72	29.92	29.87	29.44	29.29	30.42	30.28	29.75	29.29

Annual Max Momentary Gage Height 32.62 M (MSL), at 7.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation 28.14 M (MSL), River Bed 28.05 M (MSL)
Left Bank Elevation 34.19 M (MSL)
Right Bank Elevation 32.99 M (MSL), Drainage Area 167 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.52	2.48	0.68	1.90	3.00	21.33	9.15	0.30	0.00	0.00	0.00	
2	0.29	0.53	1.45	1.00	1.50	2.78	19.12	17.08	0.20	0.00	0.00	0.00	
3	0.30	0.54	1.98	0.76	1.30	2.78	35.69	20.48	0.10	0.00	0.00	0.00	
4	0.30	0.55	2.64	1.40	1.15	2.94	13.40	11.62	0.08	0.00	0.00	0.00	
5	0.31	0.56	1.74	1.10	1.10	7.80	10.50	8.75	0.06	0.00	0.00	0.00	
6	0.31	0.58	1.15	2.06	2.92	10.50	7.49	7.18	0.04	0.00	0.00	0.00	
7	0.32	0.59	0.96	2.14	2.78	6.87	6.46	6.15	0.02	0.00	0.00	0.00	
8	0.33	0.60	1.25	11.48	2.92	8.07	6.56	3.02	0.01	0.00	0.00	0.00	
9	0.33	0.61	1.15	3.00	6.97	6.97	18.61	2.84	0.00	0.00	0.00	0.00	
10	0.34	0.62	1.74	2.64	11.76	24.35	24.35	2.70	0.00	0.00	0.00	0.00	
11	0.35	0.64	2.60	2.42	2.78	28.72	19.97	2.60	0.00	0.00	0.00	0.00	
12	0.35	0.65	2.22	2.22	2.46	19.46	10.50	2.36	0.00	0.00	0.00	0.00	
13	0.36	0.66	2.48	2.06	2.22	9.56	7.94	2.46	0.00	0.00	0.00	0.00	
14	0.37	0.68	1.98	1.90	1.74	9.02	7.18	3.10	0.00	0.00	0.00	0.00	
15	0.38	0.69	1.30	1.45	1.50	8.48	3.06	2.54	0.00	0.00	0.00	0.00	
16	0.38	0.70	1.10	1.20	1.35	7.59	2.84	2.36	0.00	0.00	0.00	0.00	
17	0.39	0.72	0.92	1.25	1.30	3.06	2.66	2.06	0.00	0.00	0.00	0.00	
18	0.40	0.73	7.28	1.45	1.90	2.84	2.66	1.82	0.00	0.00	0.00	0.00	
19	0.41	0.75	2.96	1.74	2.96	2.86	2.76	1.50	0.00	0.00	0.00	0.00	
20	0.42	0.76	5.84	7.70	18.61	2.70	2.58	1.35	0.00	0.00	0.00	0.00	
21	0.43	0.78	2.66	8.48	17.76	2.66	2.60	1.25	0.00	0.00	0.00	0.00	
22	0.43	0.80	2.32	2.84	11.34	2.50	2.38	1.15	0.00	0.00	0.00	0.00	
23	0.44	0.81	2.06	2.66	6.97	2.44	2.06	1.00	0.00	0.00	0.00	0.00	
24	0.45	0.83	1.66	2.56	2.90	2.48	2.82	0.96	0.00	0.00	0.00	0.00	
25	0.46	0.85	2.06	2.40	2.78	2.42	2.52	0.88	0.00	0.00	0.00	0.00	
26	0.47	0.86	1.58	2.50	10.10	2.34	2.98	0.84	0.00	0.00	0.00	0.00	
27	0.48	0.88	1.25	6.77	6.56	2.50	6.77	0.76	0.00	0.00	0.00	0.00	
28	0.49	0.84	1.10	2.98	19.46	14.60	2.68	0.60	0.00	0.00	0.00	0.00	
29	0.50	0.96	0.84	2.64	10.36	12.35	2.46	0.50	0.00	0.00		0.00	
30	0.51	0.92	0.76	2.42	14.75	12.80	2.68	0.40	0.00	0.00		0.00	
31		0.80		2.32	7.39		11.76		0.00	0.00		0.00	
Total	11.58	22.01	61.51	88.22	181.49	227.44	267.37	119.46	0.81	0.00	0.00	0.00	979.89 CMSDAY
Mean	0.39	0.71	2.05	2.85	5.85	7.58	8.62	3.98	0.03	0.00	0.00	0.00	2.68 CMS
Max	0.51	0.96	7.28	11.48	19.46	28.72	35.69	20.48	0.30	0.00	0.00	0.00	35.69 CMS
Min	0.28	0.52	0.76	0.68	1.10	2.34	2.06	0.40	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.001	1.902	5.314	7.622	15.681	19.651	23.101	10.321	0.070	0.000	0.000	0.000	84.663 MCM

Momentary Peak 48.24 CMS, at 32.62 M (MSL), at 7.00 Hours, on Oct 3, 1996

Runoff Yield 16.08 Liters/Second/Square KM, Momentary Peak Yield 288.86 Liters/Second/Square KM

WATER YEAR 1996

CHANTHABURI RIVER BASIN

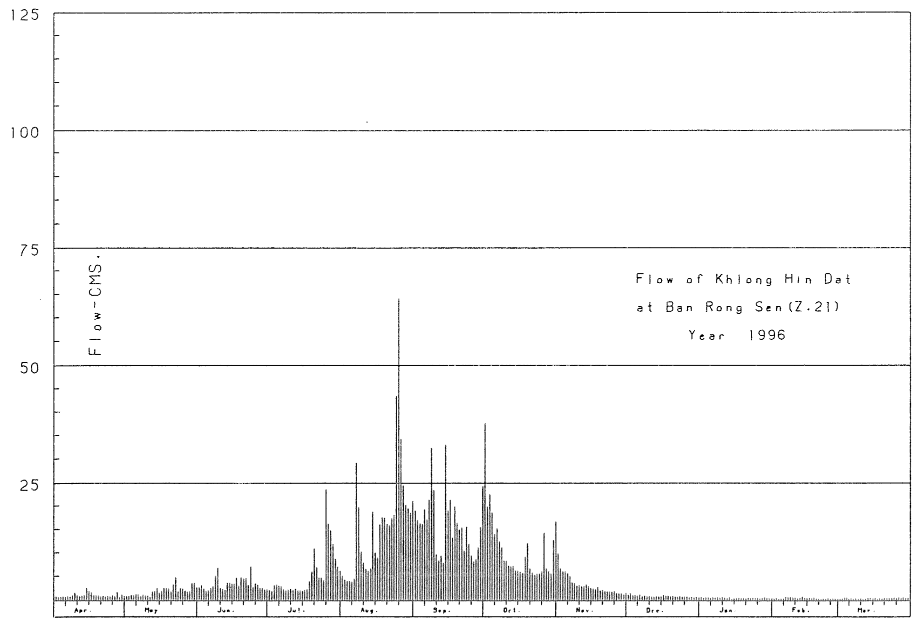
Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.21)

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	+21.20 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 40 meters from the top staff gage.
Elevation	+27.671 m.(M.S.L.)
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 36 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.00	22.00	22.15	22.10	22.34	23.11	23.79	22.66	22.03	21.95	21.88	21.85	
2	21.95	22.00	22.18	22.09	22.28	23.01	23.15	22.46	22.05	21.93	21.89	21.85	
3	21.98	22.02	22.13	22.19	22.25	22.98	23.26	22.42	22.02	21.92	21.87	21.94	
4	21.98	22.01	22.08	22.19	22.26	22.97	23.08	22.41	22.02	21.95	21.87	21.90	
5	21.98	22.03	22.10	22.18	22.24	23.12	22.86	22.39	22.01	21.92	21.89	21.87	
6	21.99	22.03	22.14	22.16	22.30	23.02	22.93	22.33	22.02	21.92	21.96	21.87	
7	21.98	22.00	22.16	22.12	23.51	23.21	22.79	22.23	22.00	21.92	21.96	21.87	
8	22.01	22.02	22.34	22.09	23.14	23.62	22.72	22.21	22.00	21.93	21.93	21.86	
9	22.06	22.01	22.47	22.11	22.68	23.29	22.58	22.18	21.99	21.92	21.92	21.86	
10	22.01	22.00	22.14	22.12	22.55	22.65	22.57	22.18	21.99	21.93	21.90	21.86	
11	21.99	21.97	22.12	22.11	22.46	22.58	22.51	22.17	21.99	21.91	21.90	21.85	
12	22.01	22.08	22.11	22.12	22.42	22.64	22.50	22.17	21.98	21.91	21.90	21.85	
13	22.01	22.08	22.22	22.10	22.47	22.55	22.50	22.20	21.98	21.95	21.98	21.91	
14	22.14	22.14	22.23	22.09	23.09	23.64	22.43	22.17	21.98	21.86	21.92	21.89	
15	22.08	22.06	22.21	22.09	22.67	23.11	22.42	22.14	21.96	21.89	21.91	21.89	
16	22.06	22.08	22.20	22.10	22.62	23.21	22.40	22.12	22.02	21.90	21.89	21.89	
17	22.02	22.13	22.31	22.12	22.97	22.83	22.39	22.12	22.01	21.90	21.90	21.87	
18	22.01	22.14	22.17	22.25	23.04	23.15	22.63	22.15	22.00	21.90	21.91	21.87	
19	22.01	22.12	22.31	22.41	23.03	22.98	22.77	22.10	22.00	21.89	21.88	21.88	
20	21.99	22.08	22.30	22.72	22.97	22.91	22.46	22.10	22.00	21.90	21.87	21.90	
21	22.00	22.19	22.30	22.49	22.96	22.94	22.39	22.09	21.99	21.90	21.86	21.90	
22	21.98	22.32	22.19	22.30	23.03	22.69	22.36	22.08	21.98	21.90	21.86	21.90	
23	21.99	22.07	22.50	22.31	23.06	22.94	22.37	22.07	21.98	21.89	21.86	21.91	
24	21.99	22.14	22.14	22.26	23.99	22.76	22.38	22.08	21.97	21.91	21.87	21.91	
25	22.01	22.12	22.21	23.30	24.62	22.64	22.41	22.08	21.96	21.89	21.86	21.91	
26	21.99	22.09	22.20	22.97	23.68	22.56	22.88	22.05	21.97	21.89	21.86	21.92	
27	22.07	22.08	22.14	22.91	23.33	22.60	22.47	22.05	21.95	21.92	21.86	21.91	
28	21.92	22.08	22.13	22.76	23.16	22.72	22.41	22.04	21.94	21.93	21.86	21.92	
29	22.02	22.22	22.11	22.61	23.13	22.94	22.38	22.03	21.95	21.90		21.90	
30	22.00	22.22	22.11	22.49	23.08	23.32	22.81	22.05	21.95	21.89		21.90	
31		22.14		22.43	23.20		23.00		21.95	21.87		21.91	
Mean	22.01	22.09	22.20	22.33	22.92	22.96	22.66	22.18	21.99	21.91	21.89	21.89	
Max	22.14	22.32	22.50	23.30	24.62	23.64	23.79	22.66	22.05	21.95	21.98	21.94	24.62
Min	21.92	21.97	22.08	22.09	22.24	22.55	22.36	22.03	21.94	21.86	21.86	21.85	21.85

Annual Max Momentary Gage Height 27.40 M (MSL), at 20.30 Hours, on Aug 7, 1996
Zero Gage at Bottom Elevation 21.20 M (MSL), River Bed 20.85 M (MSL)
Left Bank Elevation 29.69 M (MSL)
Right Bank Elevation 29.68 M (MSL), Drainage Area 66 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.900	0.900	2.820	2.180	5.252	19.280	37.700	10.000	1.284	0.700	0.440	0.350	
2	0.700	0.900	3.204	2.052	4.484	17.147	20.133	6.788	1.540	0.620	0.470	0.350	
3	0.820	1.156	2.564	3.332	4.100	16.507	22.760	6.276	1.156	0.580	0.410	0.660	
4	0.820	1.028	1.924	3.332	4.228	16.293	18.640	6.148	1.156	0.700	0.410	0.500	
5	0.820	1.284	2.180	3.204	3.972	19.493	14.000	5.892	1.028	0.580	0.470	0.410	
6	0.860	1.284	2.692	2.948	4.740	17.360	15.440	5.124	1.156	0.580	0.740	0.410	
7	0.820	0.900	2.948	2.436	29.300	21.460	12.600	3.844	0.900	0.580	0.740	0.410	
8	1.028	1.156	5.252	2.052	19.920	32.600	11.200	3.588	0.900	0.620	0.620	0.380	
9	1.668	1.028	6.916	2.308	10.400	23.540	8.500	3.204	0.860	0.580	0.580	0.380	
10	1.028	0.900	2.692	2.436	8.050	9.800	8.350	3.204	0.860	0.620	0.500	0.380	
11	0.860	0.780	2.436	2.308	6.788	8.500	7.450	3.076	0.860	0.540	0.500	0.350	
12	1.028	1.924	2.308	2.436	6.276	9.600	7.300	3.076	0.820	0.540	0.500	0.350	
13	1.028	1.924	3.716	2.180	6.916	8.050	7.300	3.460	0.820	0.700	0.820	0.540	
14	2.692	2.692	3.844	2.052	18.853	33.200	6.404	3.076	0.820	0.380	0.580	0.470	
15	1.924	1.668	3.588	2.052	10.200	19.280	6.276	2.692	0.740	0.470	0.540	0.470	
16	1.668	1.924	3.460	2.180	9.200	21.460	6.020	2.436	1.156	0.500	0.470	0.470	
17	1.156	2.564	4.868	2.436	16.293	13.400	5.892	2.436	1.028	0.500	0.500	0.410	
18	1.028	2.692	3.076	4.100	17.787	20.133	9.400	2.820	0.900	0.500	0.540	0.410	
19	1.028	2.436	4.868	6.148	17.573	16.507	12.200	2.180	0.900	0.470	0.440	0.440	
20	0.860	1.924	4.740	11.200	16.293	15.013	6.788	2.180	0.900	0.500	0.410	0.500	
21	0.900	3.332	4.740	7.172	16.080	15.653	5.892	2.052	0.860	0.500	0.380	0.500	
22	0.820	4.996	3.332	4.740	17.573	10.600	5.508	1.924	0.820	0.500	0.380	0.500	
23	0.860	1.796	7.300	4.868	18.213	15.653	5.636	1.796	0.820	0.470	0.380	0.540	
24	0.860	2.692	2.692	4.228	43.700	12.000	5.764	1.924	0.780	0.540	0.410	0.540	
25	1.028	2.436	3.588	23.800	64.440	9.600	6.148	1.924	0.740	0.470	0.380	0.540	
26	0.860	2.052	3.460	16.293	34.400	8.200	14.400	1.540	0.780	0.470	0.380	0.580	
27	1.796	1.924	2.692	15.013	24.580	8.800	6.916	1.540	0.700	0.580	0.380	0.540	
28	0.580	1.924	2.564	12.000	20.347	11.200	6.148	1.412	0.660	0.620	0.380	0.580	
29	1.156	3.716	2.308	9.000	19.707	15.653	5.764	1.284	0.700	0.500		0.500	
30	0.900	3.716	2.308	7.172	18.640	24.320	13.000	1.540	0.700	0.470		0.500	
31		2.692		6.404	21.200		16.933		0.700	0.410		0.540	
Total	32.496	62.340	105.080	174.062	519.505	490.302	336.462	98.436	28.044	16.790	13.750	14.500	1891.767 CMSDAY
Mean	1.083	2.011	3.503	5.615	16.758	16.343	10.854	3.281	0.905	0.542	0.491	0.468	5.183 CMS
Max	2.692	4.996	7.300	23.800	64.440	33.200	37.700	10.000	1.540	0.700	0.820	0.660	64.440 CMS
Min	0.580	0.780	1.924	2.052	3.972	8.050	5.508	1.284	0.660	0.380	0.380	0.350	0.350 CMS
Runoff	2.808	5.386	9.079	15.039	44.885	42.362	29.070	8.505	2.423	1.451	1.188	1.253	163.449 MCM

Momentary Peak 201.70 CMS, at 27.40 M (MSL), at 20.30 Hours, on Aug 7, 1996
Runoff Yield 78.53 Liters/Second/Square KM, Momentary Peak Yield 3056.061 Liters/Second/Square KM

WATER YEAR 1996

EAST COAST-GULF BASIN

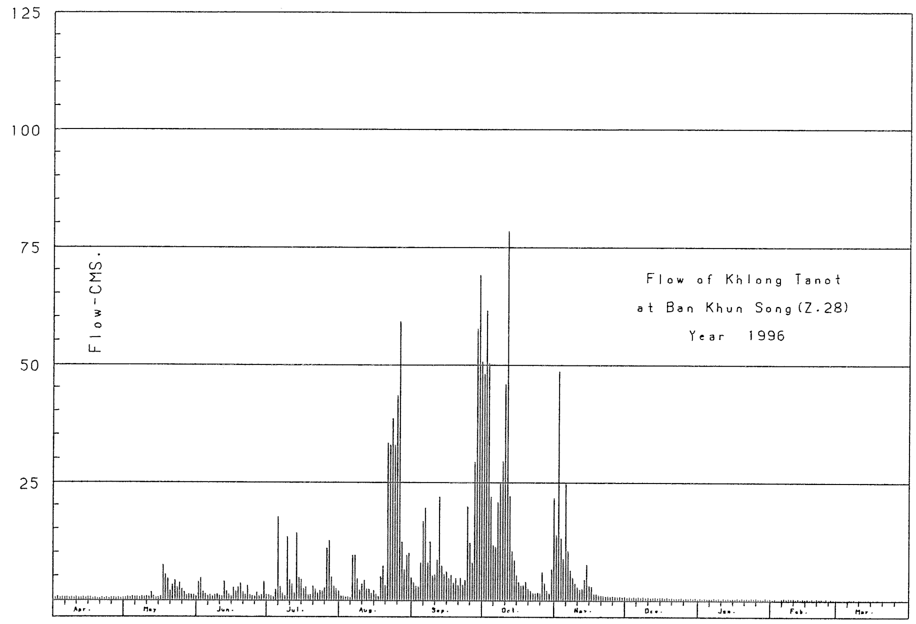
Khlong Tanot at Ban Khun Song, Chanthaburi (Z.28)

Location	Lat. 13°-04′-25″ N., Long. 101°-56′-55″ E., on right bank near Wat Khun Song, Amphoe Kaeng Hang Maeo, Chanthaburi.
Drainage Area	267 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+32.60 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 10 meters from the top staff gage.
Elevation	+40.318 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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir during Mar.10-31,97. discharge estimated by recession equation. Stage-discharge relation defined by 65 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.36	33.36	34.07	33.57	33.50	34.05	37.33	35.19	33.36	33.22	33.18	33.12	
2	33.40	33.36	34.19	33.47	33.43	33.90	37.92	37.35	33.36	33.22	33.18	33.11	
3	33.36	33.38	33.73	33.40	33.40	33.90	37.44	35.13	33.35	33.22	33.17	33.11	
4	33.35	33.39	33.58	33.78	33.37	34.58	35.78	34.68	33.35	33.22	33.16	33.10	
5	33.40	33.39	33.51	35.50	33.36	35.43	34.98	35.97	33.34	33.21	33.20	33.10	
6	33.33	33.39	33.53	33.90	34.75	35.62	34.93	34.86	33.33	33.21	33.20	33.09	
7	33.33	33.38	33.46	33.63	34.77	34.60	35.71	34.41	33.33	33.21	33.20	33.13	
8	33.33	33.40	33.53	33.52	34.17	35.06	35.97	34.22	33.32	33.21	33.20	33.11	
9	33.34	33.42	33.60	35.16	33.78	34.28	36.29	34.00	33.32	33.20	33.23	33.10	
10	33.35	33.42	33.46	34.14	33.97	34.29	37.21	33.89	33.32	33.20	33.21	33.10	
11	33.34	33.41	33.42	33.96	34.15	34.66	38.63	33.79	33.31	33.23	33.20	33.13	
12	33.34	33.71	34.09	33.66	33.80	35.78	35.80	33.83	33.31	33.23	33.19	33.13	
13	33.33	33.44	33.73	35.22	33.81	34.53	34.84	34.14	33.31	33.22	33.18	33.13	
14	33.33	33.35	33.56	34.21	33.62	34.30	34.66	34.54	33.30	33.22	33.17	33.17	
15	33.32	33.31	33.49	34.13	33.77	34.39	34.27	33.94	33.29	33.21	33.15	33.25	
16	33.30	33.41	33.84	33.83	33.57	34.20	34.07	33.89	33.29	33.21	33.13	33.32	
17	33.28	34.54	33.73	33.87	33.46	34.28	33.92	33.63	33.29	33.22	33.15	33.37	
18	33.27	34.29	33.86	33.56	34.25	34.05	33.94	33.59	33.28	33.22	33.14	33.41	
19	33.27	34.18	34.02	33.55	34.51	34.18	34.08	33.57	33.27	33.21	33.13	33.46	
20	33.26	33.74	33.71	33.92	33.92	33.95	33.84	33.52	33.26	33.23	33.17	33.52	
21	33.27	33.94	33.55	33.79	36.54	34.19	33.74	33.48	33.26	33.22	33.18	33.57	
22	33.28	34.12	33.92	33.66	36.52	33.97	33.67	33.47	33.25	33.21	33.16	33.62	
23	33.28	33.87	33.57	33.74	36.84	34.11	33.61	33.43	33.25	33.21	33.15	33.66	
24	33.27	34.02	33.44	33.75	36.52	35.65	33.69	33.43	33.25	33.23	33.14	33.68	
25	33.29	33.79	33.47	33.83	37.09	35.03	33.62	33.42	33.24	33.23	33.14	33.70	
26	33.28	33.71	33.65	34.90	37.83	34.60	34.36	33.41	33.24	33.23	33.13	33.70	
27	33.29	33.55	33.47	35.08	35.05	36.27	34.03	33.39	33.24	33.21	33.13	33.70	
28	33.28	33.56	33.53	34.22	34.42	37.76	33.75	33.38	33.23	33.18	33.13	33.70	
29	33.27	33.57	34.08	33.92	34.77	38.24	33.65	33.37	33.23	33.23		33.70	
30	33.28	33.53	33.56	33.81	34.80	37.45	34.45	33.36	33.22	33.20		33.70	
31		33.46		33.75	34.20		35.76		33.22	33.20		33.70	
Mean	33.31	33.63	33.68	34.01	34.58	34.91	35.03	34.08	33.29	33.22	33.17	33.37	
Max	33.40	34.54	34.19	35.50	37.83	38.24	38.63	37.35	33.36	33.23	33.23	33.70	38.63
Min	33.26	33.31	33.42	33.40	33.36	33.90	33.61	33.36	33.22	33.18	33.13	33.09	33.09

Annual Max Momentary Gage Height	35.75 M (MSL), at 9.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation	32.60 M (MSL), River Bed 32.35 M (MSL)
Left Bank Elevation	40.98 M (MSL)
Right Bank Elevation	39.26 M (MSL), Drainage Area 267 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.720	0.720	4.020	1.280	1.000	3.900	48.200	13.900	0.720	0.440	0.360	0.240	
2	0.800	0.720	4.740	0.940	0.860	3.000	61.480	48.600	0.720	0.440	0.360	0.220	
3	0.720	0.760	1.980	0.800	0.800	3.000	50.440	13.300	0.700	0.440	0.340	0.220	
4	0.700	0.780	1.320	2.280	0.740	7.920	22.000	8.820	0.700	0.440	0.320	0.200	
5	0.800	0.780	1.040	17.800	0.720	16.890	11.800	24.850	0.680	0.420	0.400	0.200	
6	0.660	0.780	1.120	3.000	9.500	19.600	11.300	10.600	0.660	0.420	0.400	0.180	
7	0.660	0.760	0.920	1.520	9.700	8.100	20.950	6.390	0.660	0.420	0.400	0.260	
8	0.660	0.800	1.120	1.080	4.620	12.600	24.850	4.940	0.640	0.420	0.400	0.220	
9	0.680	0.840	1.400	13.600	2.280	5.360	29.650	3.600	0.640	0.400	0.460	0.200	
10	0.700	0.840	0.920	4.440	3.420	5.430	45.800	2.940	0.640	0.400	0.420	0.200	
11	0.680	0.820	0.840	3.360	4.500	8.640	78.520	2.340	0.620	0.460	0.400	0.200	
12	0.680	1.860	4.140	1.640	2.400	22.000	22.300	2.580	0.620	0.460	0.380	0.190	
13	0.660	0.880	1.980	14.240	2.460	7.470	10.400	4.440	0.620	0.440	0.360	0.190	
14	0.660	0.700	1.240	4.870	1.480	5.500	8.640	7.560	0.600	0.440	0.340	0.180	
15	0.640	0.620	0.980	4.380	2.220	6.220	5.290	3.240	0.580	0.420	0.300	0.180	
16	0.600	0.820	2.640	2.580	1.280	4.800	4.020	2.940	0.580	0.420	0.260	0.170	
17	0.560	7.560	1.980	2.820	0.920	5.360	3.120	1.520	0.580	0.440	0.300	0.170	
18	0.540	5.430	2.760	1.240	5.150	3.900	3.240	1.360	0.560	0.440	0.280	0.160	
19	0.540	4.680	3.720	1.200	7.290	4.680	4.080	1.280	0.540	0.420	0.260	0.160	
20	0.520	2.040	1.860	3.120	3.120	3.300	2.640	1.080	0.520	0.460	0.340	0.160	
21	0.540	3.240	1.200	2.340	33.440	4.740	2.040	0.960	0.520	0.440	0.360	0.150	
22	0.560	4.320	3.120	1.640	33.120	3.420	1.680	0.940	0.500	0.420	0.320	0.150	
23	0.560	2.820	1.280	2.040	38.760	4.260	1.440	0.860	0.500	0.420	0.300	0.140	
24	0.540	3.720	0.880	2.100	33.120	20.050	1.760	0.860	0.500	0.460	0.280	0.140	
25	0.580	2.340	0.940	2.580	43.510	12.300	1.480	0.840	0.480	0.460	0.280	0.140	
26	0.560	1.860	1.600	11.000	59.320	8.100	5.980	0.820	0.480	0.460	0.260	0.130	
27	0.580	1.200	0.940	12.800	12.500	29.350	3.780	0.780	0.480	0.420	0.260	0.130	
28	0.560	1.240	1.120	4.940	6.480	57.640	2.100	0.760	0.460	0.360	0.260	0.130	
29	0.540	1.280	4.080	3.120	9.700	69.160	1.600	0.740	0.460	0.460		0.120	
30	0.560	1.120	1.240	2.460	10.000	50.650	6.750	0.720	0.440	0.400		0.120	
31		0.920		2.100	4.800		21.700		0.440	0.400		0.120	
Total	18.760	57.250	57.120	133.310	349.210	417.340	519.030	174.560	17.840	13.340	9.400	5.370	1772.530 CMSDAY
Mean	0.625	1.847	1.904	4.300	11.265	13.911	16.743	5.819	0.575	0.430	0.336	0.173	4.856 CMS
Max	0.800	7.560	4.740	17.800	59.320	69.160	78.520	48.600	0.720	0.460	0.460	0.260	78.520 CMS
Min	0.520	0.620	0.840	0.800	0.720	3.000	1.440	0.720	0.440	0.360	0.260	0.120	0.120 CMS
Runoff	1.621	4.946	4.935	11.518	30.172	36.058	44.844	15.082	1.541	1.153	0.812	0.464	153.147 MCM

Momentary Peak 21.55 CMS, at 35.75 M (MSL), at 9.00 Hours, on Oct 11, 1996
Runoff Yield 18.19 Liters/Second/Square KM, Momentary Peak Yield 80.712 Liters/Second/Square KM

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WATER YEAR 1996

EAST COAST-GULF BASIN

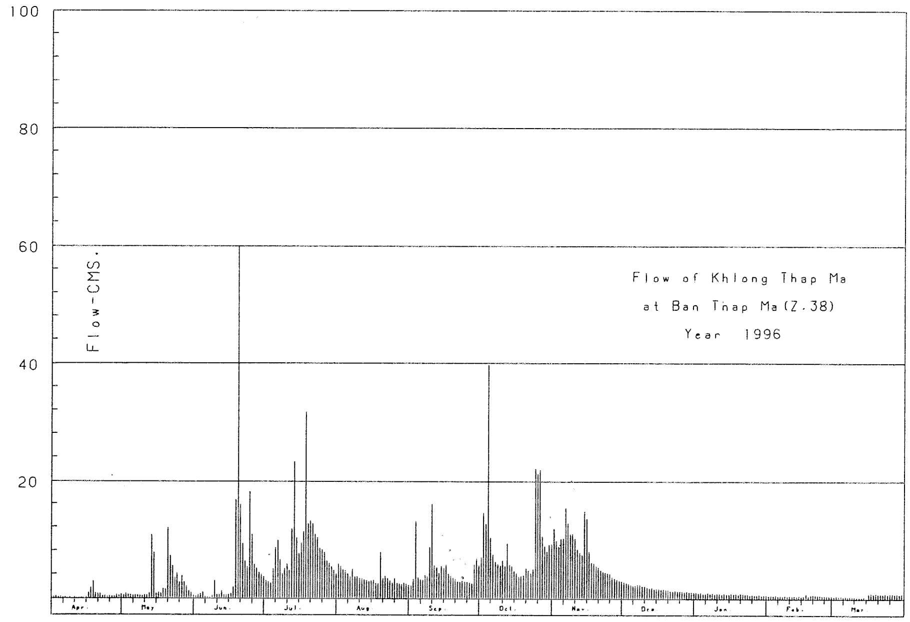
Khlong Thap Ma at Ban Khao Bot, Rayong (Z.38)

Location	Lat. 12°-44′-11″ N., Long. 100°-46′-05″ E., on left bank at the bridge on road, near Wat Khao Bot, Amphoe Muang, Rayong.
Drainage Area	151 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 top staff gage.
Elevation	+3.220 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	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 1996.

Gage Height in Meter (AD.), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.52	0.48	0.93	1.18	0.83	1.26	1.55	0.90	0.62	0.51	0.47	
2	0.45	0.58	0.52	0.90	1.14	0.95	1.67	1.43	0.89	0.62	0.51	0.47	
3	0.43	0.54	0.56	0.88	1.10	1.61	1.59	1.38	0.86	0.61	0.51	0.46	
4	0.44	0.51	0.63	1.11	1.08	0.99	2.37	1.45	0.84	0.60	0.51	0.45	
5	0.42	0.51	0.46	1.36	1.04	0.95	1.46	1.46	0.82	0.60	0.50	0.45	
6	0.40	0.51	0.42	1.44	0.99	0.93	1.29	1.71	0.81	0.61	0.50	0.45	
7	0.40	0.52	0.37	1.23	1.10	1.02	1.21	1.59	0.85	0.60	0.49	0.45	
8	0.40	0.48	0.51	1.04	1.00	0.99	1.17	1.50	0.83	0.60	0.49	0.45	
9	0.40	0.51	0.93	1.11	0.99	1.37	1.16	1.50	0.81	0.59	0.49	0.45	
10	0.39	0.51	0.55	1.18	0.98	1.74	1.22	1.45	0.79	0.58	0.48	0.43	
11	0.39	0.50	0.54	1.08	0.96	1.15	1.14	1.35	0.78	0.58	0.48	0.43	
12	0.37	0.61	0.66	1.54	0.95	1.13	1.41	1.31	0.76	0.58	0.48	0.43	
13	0.39	1.49	0.54	2.00	0.93	1.04	1.17	1.29	0.75	0.58	0.48	0.43	
14	0.39	1.31	0.51	1.46	0.92	1.14	1.14	1.68	0.73	0.58	0.48	0.43	
15	0.43	0.60	0.55	1.31	0.93	1.12	1.08	1.63	0.73	0.58	0.48	0.43	
16	0.62	0.61	0.60	1.41	0.93	1.16	1.04	1.32	0.72	0.58	0.47	0.60	
17	0.75	0.59	0.77	1.52	0.88	1.04	1.00	1.20	0.72	0.58	0.59	0.60	
18	0.92	0.72	1.77	2.21	0.86	1.00	1.00	1.18	0.71	0.57	0.46	0.59	
19	0.59	0.72	2.67	1.59	1.32	0.98	1.02	1.15	0.71	0.56	0.55	0.59	
20	0.59	1.55	1.73	1.61	0.96	0.95	1.12	1.12	0.69	0.58	0.52	0.59	
21	0.57	1.28	1.40	1.59	1.00	0.91	1.08	1.09	0.68	0.57	0.54	0.59	
22	0.50	1.15	1.22	1.50	0.97	0.91	1.05	1.07	0.67	0.57	0.53	0.58	
23	0.48	0.98	1.13	1.46	0.92	0.92	1.10	1.05	0.67	0.55	0.50	0.58	
24	0.47	1.04	1.82	1.36	0.89	0.91	1.95	1.05	0.67	0.54	0.50	0.58	
25	0.47	0.89	1.50	1.34	0.96	0.90	1.91	1.03	0.66	0.53	0.49	0.58	
26	0.46	1.01	1.17	1.32	0.89	0.88	1.94	0.98	0.65	0.53	0.48	0.58	
27	0.47	0.91	1.11	1.22	0.87	0.87	1.48	0.97	0.65	0.54	0.48	0.58	
28	0.53	0.80	1.06	1.18	0.84	1.17	1.38	0.94	0.64	0.53	0.48	0.57	
29	0.51	0.68	1.02	1.14	0.89	1.24	1.32	0.93	0.64	0.52		0.57	
30	0.54	0.61	0.99	1.08	0.85	1.15	1.39	0.91	0.63	0.51		0.57	
31		0.49		1.03	0.83		1.40		0.63	0.51		0.57	
Mean	0.49	0.77	0.94	1.33	0.97	1.06	1.34	1.28	0.74	0.57	0.50	0.52	
Max	0.92	1.55	2.67	2.21	1.32	1.74	2.37	1.71	0.90	0.62	0.59	0.60	2.67
Min	0.37	0.48	0.37	0.88	0.83	0.83	1.00	0.91	0.63	0.51	0.46	0.43	0.37

Annual Max Momentary Gage Height 2.82 M (AD.), at 12.00 Hours, on Jun 19, 1996
Zero Gage at Bottom Elevation 0.00 M (AD.), River Bed 0.27 M (AD.)
Left Bank Elevation 4.69 M (AD.)
Right Bank Elevation 4.71 M (AD.), Drainage Area 151 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.380	0.580	0.440	3.100	5.960	2.310	7.040	12.000	2.800	1.020	0.540	0.410	
2	0.350	0.820	0.580	2.800	5.480	3.300	14.610	9.810	2.730	1.020	0.540	0.410	
3	0.290	0.660	0.740	2.660	5.000	13.230	12.800	8.960	2.520	0.960	0.540	0.380	
4	0.320	0.540	1.080	5.120	4.760	3.700	39.880	10.150	2.380	0.900	0.540	0.350	
5	0.260	0.540	0.380	8.620	4.280	3.300	10.320	10.320	2.240	0.900	0.500	0.350	
6	0.200	0.540	0.260	9.980	3.700	3.100	7.460	15.530	2.170	0.960	0.500	0.350	
7	0.200	0.580	0.140	6.620	5.000	4.040	6.340	12.800	2.450	0.900	0.470	0.350	
8	0.200	0.440	0.540	4.280	3.800	3.700	5.840	11.000	2.310	0.900	0.470	0.350	
9	0.200	0.540	3.100	5.120	3.700	8.790	5.720	11.000	2.170	0.860	0.470	0.350	
10	0.180	0.540	0.700	5.960	3.600	16.220	6.480	10.150	2.040	0.820	0.440	0.290	
11	0.180	0.500	0.660	4.760	3.400	5.600	5.480	8.450	1.980	0.820	0.440	0.290	
12	0.140	0.960	1.260	11.800	3.300	5.360	9.470	7.770	1.860	0.820	0.440	0.290	
13	0.180	10.830	0.660	23.400	3.100	4.280	5.840	7.460	1.800	0.820	0.440	0.290	
14	0.180	7.770	0.540	10.320	3.000	5.480	5.480	14.840	1.680	0.820	0.440	0.290	
15	0.290	0.900	0.700	7.770	3.100	5.240	4.760	13.690	1.680	0.820	0.440	0.290	
16	1.020	0.960	0.900	9.470	3.100	5.720	4.280	7.940	1.620	0.820	0.410	0.900	
17	1.800	0.860	1.920	11.400	2.660	4.280	3.800	6.200	1.620	0.820	0.860	0.900	
18	3.000	1.620	16.910	31.780	2.520	3.800	3.800	5.960	1.560	0.780	0.380	0.860	
19	0.860	1.620	60.040	12.800	7.940	3.600	4.040	5.600	1.560	0.740	0.700	0.860	
20	0.860	12.000	15.990	13.230	3.400	3.300	5.240	5.240	1.440	0.820	0.580	0.860	
21	0.780	7.320	9.300	12.800	3.800	2.900	4.760	4.880	1.380	0.780	0.660	0.860	
22	0.500	5.600	6.480	11.000	3.500	2.900	4.400	4.640	1.320	0.780	0.620	0.820	
23	0.440	3.600	5.360	10.320	3.000	3.000	5.000	4.400	1.320	0.700	0.500	0.820	
24	0.410	4.280	18.280	8.620	2.730	2.900	22.200	4.400	1.320	0.660	0.500	0.820	
25	0.410	2.730	11.000	8.280	3.400	2.800	21.240	4.160	1.260	0.620	0.470	0.820	
26	0.380	3.920	5.840	7.940	2.730	2.660	21.960	3.600	1.200	0.620	0.440	0.820	
27	0.410	2.900	5.120	6.480	2.590	2.590	10.660	3.500	1.200	0.660	0.440	0.820	
28	0.620	2.100	4.520	5.960	2.380	5.840	8.960	3.200	1.140	0.620	0.440	0.780	
29	0.540	1.380	4.040	5.480	2.730	6.760	7.940	3.100	1.140	0.580		0.780	
30	0.660	0.960	3.700	4.760	2.450	5.600	9.130	2.900	1.080	0.540		0.780	
31		0.470		4.160	2.310		9.300		1.080	0.540		0.780	
Total	16.240	79.060	181.180	276.790	112.420	146.300	294.230	233.650	54.050	24.420	14.210	18.320	1450.870 CMSDAY
Mean	0.541	2.550	6.039	8.929	3.626	4.877	9.491	7.788	1.744	0.788	0.507	0.591	3.975 CMS
Max	3.000	12.000	60.040	31.780	7.940	16.220	39.880	15.530	2.800	1.020	0.860	0.900	60.040 CMS
Min	0.140	0.440	0.140	2.660	2.310	2.310	3.800	2.900	1.080	0.540	0.380	0.290	0.140 CMS
Runoff	1.403	6.831	15.654	23.915	9.713	12.640	25.421	20.187	4.670	2.110	1.228	1.583	125.355 MCM

Momentary Peak 72.84 CMS, at 2.82 M (AD.), at 12.00 Hours, on Jun 19, 1996
Runoff Yield 26.32 Liters/Second/Square KM, Momentary Peak Yield 482.384 Liters/Second/Square KM

WATER YEAR 1996

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	7,008 sq.km.
Type of Gage	Water-stage recorder.
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	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 to date.
Rated by Float	-
Rated by Current Meter	1965 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +41.12 m.(M.S.L.) and is included.
General Description	Records are good. Flow regulated by Khao Lam Dam. Stage-discharge relation defined by 24 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

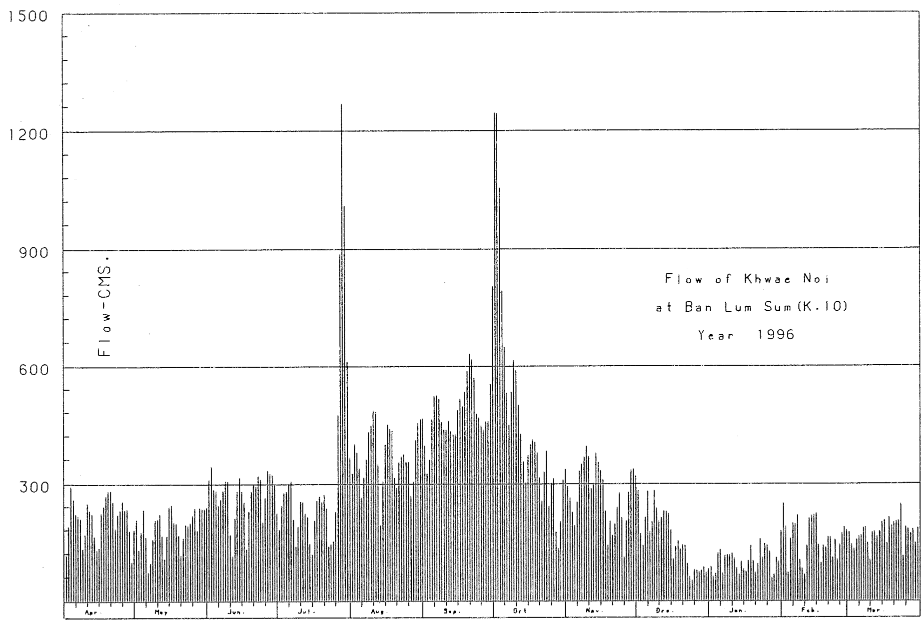
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.26	33.28	34.38	33.00	34.55	35.25	42.28	34.20	34.09	31.89	33.77	32.95	
2	33.10	32.43	34.73	33.70	35.29	34.53	42.26	33.90	32.89	31.52	33.09	32.58	
3	34.21	32.93	34.14	34.04	35.09	34.90	40.97	33.51	32.57	31.65	31.66	32.44	
4	33.89	33.59	34.09	34.09	34.68	35.93	38.79	33.11	33.35	32.30	32.77	32.74	
5	33.47	32.81	33.71	34.26	33.93	36.50	37.58	33.80	34.10	32.43	33.20	32.83	
6	33.39	31.71	33.86	34.34	34.44	36.50	36.55	34.61	32.95	31.66	33.15	32.84	
7	33.34	31.99	34.11	33.31	34.92	36.43	35.79	34.78	33.24	32.22	33.43	33.07	
8	32.45	32.75	34.34	32.54	35.60	35.85	36.59	34.97	34.10	32.27	32.11	33.07	
9	32.89	33.27	34.35	33.09	35.78	35.67	37.30	35.23	33.63	32.24	31.81	32.64	
10	33.75	33.32	32.88	33.80	36.14	35.65	37.09	34.97	33.25	32.32	31.61	32.10	
11	33.55	33.46	32.23	33.80	36.12	35.90	36.27	34.16	33.36	32.16	32.56	32.94	
12	33.47	32.83	33.35	33.47	34.78	35.62	35.54	34.29	33.52	31.83	33.32	32.95	
13	32.81	32.14	34.08	33.38	33.14	35.55	34.85	35.07	33.54	31.62	33.41	32.81	
14	32.43	32.82	34.45	32.60	34.35	35.54	34.32	34.82	33.45	32.03	33.42	32.97	
15	32.47	33.65	34.08	32.28	35.29	36.15	34.99	34.62	33.00	31.79	33.47	33.21	
16	33.47	33.72	33.78	33.28	35.81	36.42	35.29	34.39	32.13	31.72	32.57	33.29	
17	33.69	33.21	32.43	33.83	35.68	36.25	35.41	33.55	32.52	32.06	32.01	32.63	
18	33.97	33.20	33.53	33.94	35.62	36.60	35.36	32.56	32.70	32.57	32.54	33.35	
19	34.09	32.86	34.09	33.80	34.44	37.08	35.07	33.25	32.42	32.08	32.50	33.13	
20	34.11	32.23	34.27	34.01	34.17	37.46	34.43	32.86	32.57	31.66	32.81	33.20	
21	33.79	32.76	34.20	33.61	34.83	37.32	33.82	33.18	32.57	31.96	32.79	33.23	
22	33.05	33.16	34.49	32.53	34.98	36.91	34.59	33.64	31.98	32.76	32.16	33.27	
23	33.43	33.11	34.38	32.59	35.02	36.07	35.13	34.03	31.52	32.18	32.73	33.75	
24	33.57	33.21	33.23	32.69	34.84	35.96	33.67	33.36	31.40	32.60	32.09	32.20	
25	33.81	33.41	33.91	33.51	34.83	35.78	34.31	32.19	31.76	32.56	32.59	33.10	
26	33.56	33.61	34.63	36.05	33.97	35.66	34.40	33.25	31.77	32.38	32.90	33.02	
27	33.60	33.00	34.54	39.57	34.34	35.87	32.95	34.07	31.71	31.49	33.09	32.91	
28	32.99	33.64	34.51	42.42	35.40	35.86	32.47	34.63	31.74	31.60	32.98	33.01	
29	32.02	33.58	34.27	40.58	35.82	36.77	33.23	34.67	31.87	32.18		32.64	
30	33.00	33.60	33.47	37.29	35.94	38.87	34.39	34.49	31.66	32.03		33.07	
31		33.63		34.95	35.94		34.65		31.79	32.97		32.47	
Mean	33.32	33.06	33.95	34.40	35.02	36.16	35.82	34.01	32.68	32.09	32.73	32.92	
Max	34.21	33.72	34.73	42.42	36.14	38.87	42.28	35.23	34.10	32.97	33.77	33.75	42.42
Min	32.02	31.71	32.23	32.28	33.14	34.53	32.47	32.19	31.40	31.49	31.61	32.10	31.40

Annual Max Momentary Gage Height 42.77 M (MSL), at 21.00 Hours, on Oct 1, 1996

Zero Gage at Bottom Elevation 30.40 M (MSL), River Bed 29.85 M (MSL)

Left Bank Elevation 41.11 M (MSL)

Right Bank Elevation 46.80 M (MSL), Drainage Area 7008 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	118.8	207.2	310.0	182.0	327.0	397.0	1246.8	292.0	281.0	89.2	251.3	177.5	
2	191.0	132.4	345.0	245.0	401.0	325.0	1243.6	263.0	172.1	62.4	190.1	144.4	
3	293.0	175.7	286.0	276.0	381.0	362.0	1056.4	227.9	143.6	71.5	72.2	133.2	
4	262.1	235.1	281.0	281.0	340.0	465.0	793.6	191.9	213.5	122.0	161.3	158.6	
5	224.3	164.9	245.9	298.0	265.7	525.0	647.8	254.0	282.0	132.4	200.0	166.7	
6	217.1	75.7	259.4	306.0	316.0	525.0	530.5	333.0	177.5	72.2	195.5	167.6	
7	212.6	97.2	283.0	209.9	364.0	517.3	451.0	350.0	203.6	115.6	220.7	188.3	
8	134.0	159.5	306.0	141.2	432.0	457.0	534.9	369.0	282.0	119.6	106.8	188.3	
9	172.1	206.3	307.0	190.1	450.0	439.0	614.1	395.0	238.7	117.2	82.8	149.6	
10	249.5	210.8	171.2	254.0	486.0	437.0	589.9	369.0	204.5	123.6	68.7	106.0	
11	231.5	223.4	116.4	254.0	484.0	462.0	499.7	288.0	214.4	110.8	142.8	176.6	
12	224.3	166.7	213.5	224.3	350.0	434.0	426.0	301.0	228.8	84.4	210.8	177.5	
13	164.9	109.2	280.0	216.2	194.6	427.0	357.0	379.0	230.6	69.4	218.9	164.9	
14	132.4	165.8	317.0	146.0	307.0	426.0	304.0	354.0	222.5	100.4	219.8	179.3	
15	135.6	240.5	280.0	120.4	401.0	487.0	371.0	334.0	182.0	81.3	224.3	200.9	
16	224.3	246.8	252.2	207.2	453.0	516.2	401.0	311.0	108.4	76.4	143.6	208.1	
17	244.1	200.9	132.4	256.7	440.0	497.5	413.0	231.5	139.6	102.8	98.8	148.7	
18	269.3	200.0	229.7	266.6	434.0	536.0	408.0	142.8	155.0	143.6	141.2	213.5	
19	281.0	169.4	281.0	254.0	316.0	588.8	379.0	204.5	131.6	104.4	138.0	193.7	
20	283.0	116.4	299.0	273.0	289.0	633.3	315.0	169.4	143.6	72.2	164.9	200.0	
21	253.1	160.4	292.0	236.9	355.0	616.5	255.8	198.2	143.6	94.8	163.1	202.7	
22	186.5	196.4	321.0	140.4	370.0	570.1	331.0	239.6	96.4	160.4	110.8	206.3	
23	220.7	191.9	310.0	145.2	374.0	479.0	385.0	275.0	62.4	112.4	157.7	249.5	
24	233.3	200.9	202.7	154.1	356.0	468.0	242.3	214.4	54.0	146.0	105.2	114.0	
25	254.9	218.9	263.9	227.9	355.0	450.0	303.0	113.2	79.2	142.8	145.2	191.0	
26	232.4	236.9	335.0	477.0	269.3	438.0	312.0	204.5	79.9	128.4	173.0	183.8	
27	236.0	182.0	326.0	887.6	306.0	459.0	177.5	279.0	75.7	60.3	190.1	173.9	
28	181.1	239.6	323.0	1269.2	412.0	458.0	135.6	335.0	77.8	68.0	180.2	182.9	
29	99.6	234.2	299.0	1009.4	454.0	554.7	202.7	339.0	87.6	112.4		149.6	
30	182.0	236.0	224.3	612.8	466.0	803.3	311.0	321.0	72.2	100.4		188.3	
31		238.7		367.0	466.0		337.0		81.3	179.3		135.6	
Total	6344.5	5839.8	8092.6	10129.1	11614.6	14753.7	14575.2	8278.9	4865.1	3276.6	4477.8	5421.0	97668.9 CMSDAY
Mean	211.5	188.4	269.8	326.7	374.7	491.8	470.2	276.0	156.9	105.7	159.9	174.9	267.6 CMS
Max	293.0	246.8	345.0	1269.2	486.0	803.3	1246.8	395.0	282.0	179.3	251.3	249.5	1269.2 CMS
Min	99.6	75.7	116.4	120.4	194.6	325.0	135.6	113.2	54.0	60.3	68.7	106.0	54.0 CMS
Runoff	548.16	504.56	699.20	875.15	1003.50	1274.72	1259.30	715.30	420.34	283.10	386.88	468.37	8438.59 MCM

Momentary Peak 1326.90 CMS, at 42.77 M (MSL), at 21.00 Hours, on Oct 1, 1996

Runoff Yield 38.18 Liters/Second/Square KM, Momentary Peak Yield 189.341 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

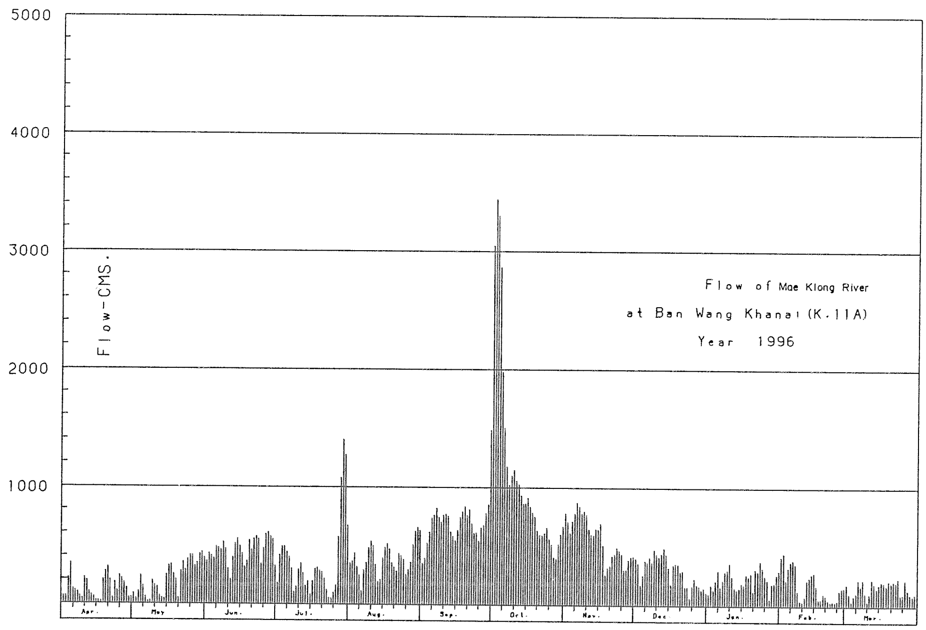
Mae Klong River at Ban Wang Khanai, Kanchanaburi (K.11A)

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	+10.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Along the gage line.
Elevation	+23.600 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965-1969, 1972 to date.
Rated by Float	-
Rated by Current Meter	1965-1969, 1972 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +17.51 m. (M.S.L.) and is included.
General Description	Records good. Flow regulated by Vachiralongkorn Diversion Dam. Stage-discharge relation defined by 65 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.37	11.50	12.78	12.05	12.75	12.75	19.32	14.20	12.91	11.55	12.95	12.06	
2	11.35	11.23	13.04	12.98	12.79	12.89	20.09	13.95	12.74	12.00	13.08	11.62	
3	12.24	11.64	12.95	13.24	13.04	13.36	19.81	13.66	12.01	11.79	12.21	11.17	
4	12.72	12.32	12.89	13.26	12.64	13.66	18.98	13.96	12.35	12.15	12.61	11.47	
5	11.77	11.88	13.25	13.09	12.35	14.06	17.17	14.19	12.85	12.54	12.83	11.65	
6	11.66	11.29	13.19	12.92	11.66	14.12	16.07	14.47	12.78	11.90	12.86	12.22	
7	11.60	11.00	13.15	12.55	12.51	14.32	15.29	14.36	12.95	12.21	12.75	11.98	
8	11.35	11.02	13.38	11.63	12.77	14.08	14.86	14.19	12.77	12.47	11.71	12.22	
9	11.23	12.14	13.16	11.87	13.22	13.93	15.09	14.24	13.19	12.56	11.21	11.65	
10	12.23	11.93	12.53	12.54	13.42	14.12	15.20	14.14	13.03	12.76	11.08	11.19	
11	12.14	11.87	12.19	12.74	13.27	14.17	14.96	13.77	12.94	12.32	11.44	11.57	
12	11.63	11.41	12.92	12.39	12.68	14.09	14.89	13.60	13.06	11.89	12.18	12.26	
13	11.41	11.22	13.32	11.91	12.11	13.69	14.63	13.61	13.23	11.76	12.31	12.06	
14	11.32	11.21	13.46	12.13	12.17	13.55	14.43	13.76	13.02	11.88	12.40	11.89	
15	11.01	12.33	13.26	11.50	12.91	13.43	14.43	13.76	12.61	12.09	12.48	12.02	
16	11.01	12.66	13.02	12.09	13.21	13.72	14.56	13.91	12.03	11.99	11.96	12.18	
17	11.01	12.68	12.61	12.57	13.34	14.08	14.36	13.31	12.72	12.41	11.27	12.11	
18	12.17	12.38	12.79	12.58	13.17	14.22	14.19	12.38	12.74	12.31	11.27	12.00	
19	12.45	12.16	13.43	12.50	12.76	14.37	14.10	12.60	12.74	12.45	11.61	12.18	
20	12.61	11.23	13.13	12.43	12.60	14.12	13.73	12.69	12.49	11.68	11.48	12.12	
21	12.14	12.48	13.46	12.23	12.47	14.27	13.59	12.97	12.50	12.57	11.20	12.17	
22	11.26	12.78	13.55	11.74	13.05	13.91	13.59	13.05	11.93	12.51	11.13	12.14	
23	12.06	12.50	13.45	11.26	12.96	13.65	13.64	13.23	11.90	12.84	11.13	12.27	
24	11.67	12.84	12.72	11.26	12.87	13.65	13.79	13.14	11.35	12.61	11.13	11.56	
25	12.32	12.99	13.20	11.57	12.37	13.42	13.49	13.05	11.96	12.33	11.16	11.55	
26	12.20	12.96	13.59	11.92	12.52	13.78	13.31	12.53	12.24	12.21	11.74	12.24	
27	12.03	12.65	13.67	13.54	12.76	13.87	12.95	12.56	12.02	11.31	11.88	11.80	
28	11.81	12.73	13.54	15.03	13.31	14.17	12.88	12.85	11.93	12.03	11.88	11.56	
29	11.28	13.03	13.45	15.84	13.69	14.41	13.34	12.96	11.79	12.09		11.51	
30	11.27	13.06	12.64	15.52	13.81	16.03	13.60	12.96	11.85	12.40		11.58	
31		12.91		13.84	13.71		13.82		11.65	12.51		11.45	
Mean	11.74	12.13	13.12	12.67	12.87	13.93	14.97	13.47	12.46	12.20	11.89	11.85	
Max	12.72	13.06	13.67	15.84	13.81	16.03	20.09	14.47	13.23	12.84	13.08	12.27	20.09
Min	11.01	11.00	12.19	11.26	11.66	12.75	12.88	12.38	11.35	11.31	11.08	11.17	11.00

Annual Max Momentary Gage Height 20.15 M (MSL), at 19.00 Hours, on Oct 2, 1996
Zero Gage at Bottom Elevation 10.00 M (MSL), River Bed 9.19 M (MSL)
Left Bank Elevation 17.50 M (MSL)
Right Bank Elevation 18.50 M (MSL), Drainage Area 26449 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.8	86.0	362.6	184.0	354.5	354.5	3051.6	786.0	398.8	94.0	410.0	186.0	
2	65.0	48.9	435.2	418.4	365.3	393.2	3450.9	706.2	351.8	174.0	446.4	105.4	
3	224.6	108.8	410.0	491.6	435.2	526.4	3305.7	615.0	176.0	134.3	217.4	41.7	
4	346.4	244.0	393.2	497.4	325.4	615.0	2875.2	709.3	251.5	204.5	317.6	81.8	
5	130.9	150.4	494.5	449.2	251.5	741.2	1986.5	782.8	382.0	299.4	376.4	110.5	
6	112.2	56.7	477.2	401.6	112.2	760.4	1504.1	876.5	362.6	154.0	384.8	219.8	
7	102.0	24.0	466.0	302.0	291.6	824.8	1181.1	838.4	410.0	217.4	354.5	170.0	
8	65.0	26.0	532.2	107.1	359.9	747.6	1017.2	782.8	359.9	281.5	120.7	219.8	
9	48.9	202.4	468.8	148.6	485.8	699.8	1104.2	798.8	477.2	304.6	46.3	110.5	
10	222.2	160.0	296.8	299.4	543.8	760.4	1146.0	766.8	432.4	357.2	32.0	43.9	
11	202.4	148.6	212.9	351.8	500.3	776.4	1054.8	649.2	407.2	244.0	77.6	97.2	
12	107.1	73.4	401.6	261.5	335.8	750.8	1028.3	597.0	440.8	152.2	210.8	229.4	
13	73.4	47.6	514.8	156.0	196.1	624.0	933.8	600.0	488.7	129.2	241.5	186.0	
14	60.8	46.3	555.4	200.3	208.7	582.0	862.5	646.0	429.6	150.4	264.0	152.2	
15	25.0	246.5	497.4	86.0	398.8	546.7	862.5	646.0	317.6	192.0	284.0	178.0	
16	25.0	330.6	429.6	192.0	482.9	633.3	908.6	693.5	180.0	172.0	166.0	210.8	
17	25.0	335.8	317.6	307.2	520.6	747.6	838.4	511.9	346.4	266.5	54.1	196.1	
18	208.7	259.0	365.3	309.8	471.6	792.4	782.8	259.0	351.8	241.5	54.1	174.0	
19	276.5	206.6	546.7	289.0	357.2	841.8	754.0	315.0	351.8	276.5	103.7	210.8	
20	317.6	48.9	460.4	271.5	315.0	760.4	636.5	338.4	286.5	115.6	83.2	198.2	
21	202.4	284.0	555.4	222.2	281.5	808.4	594.0	415.6	289.0	307.2	45.0	208.7	
22	52.8	362.6	582.0	125.8	438.0	693.5	594.0	438.0	160.0	291.6	37.3	202.4	
23	186.0	289.0	552.5	52.8	412.8	612.0	609.0	488.7	154.0	379.2	37.3	231.8	
24	113.9	379.2	346.4	52.8	387.6	612.0	655.5	463.2	65.0	317.6	37.3	95.6	
25	244.0	421.2	480.0	97.2	256.5	543.8	564.1	438.0	166.0	246.5	40.6	94.0	
26	215.0	412.8	594.0	158.0	294.2	652.3	511.9	296.8	224.6	217.4	125.8	224.6	
27	180.0	328.0	618.0	579.0	357.2	680.8	410.0	304.6	178.0	59.4	150.4	136.0	
28	137.8	349.1	579.0	1081.4	511.9	776.4	390.4	382.0	160.0	180.0	150.4	95.6	
29	55.4	432.4	552.5	1405.8	624.0	855.5	520.6	412.8	134.3	192.0		87.6	
30	54.1	440.8	325.4	1273.0	661.8	1486.9	597.0	412.8	145.0	264.0		98.8	
31		398.8		671.3	630.2		665.0		110.5	291.6		79.0	
Total	4147.9	6948.4	13823.4	11443.7	12167.9	21200.3	35396.2	16971.1	8989.0	6907.3	4869.2	4676.2	147540.6 CMSDAY
Mean	138.3	224.1	460.8	369.2	392.5	706.7	1141.8	565.7	290.0	222.8	173.9	150.8	404.2 CMS
Max	346.4	440.8	618.0	1405.8	661.8	1486.9	3450.9	876.5	488.7	379.2	446.4	231.8	3450.9 CMS
Min	25.0	24.0	212.9	52.8	112.2	354.5	390.4	259.0	65.0	59.4	32.0	41.7	24.0 CMS
Runoff	358.38	600.34	1194.34	988.74	1051.31	1831.71	3058.23	1466.30	776.65	596.79	420.70	404.02	12747.51 MCM

Momentary Peak 3482.07 CMS, at 20.15 M (MSL), at 19.00 Hours, on Oct 2, 1996

Runoff Yield 15.28 Liters/Second/Square KM, Momentary Peak Yield 131.652 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

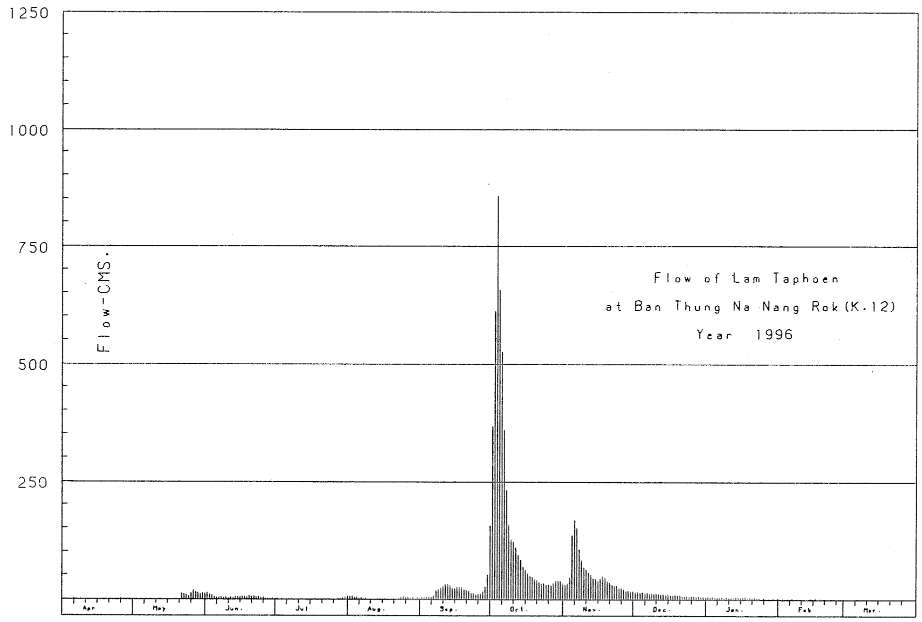
Lam Taphoen at Ban Thung Na Nang Rok, Kanchanaburi (K.12)

Location	Lat. 14°-09'-15" N., Long. 99°-25'-06" E., on left bank about 50 meters downstream from Wat Tung Na Nang Rok, Amphoe Muang, Kanchanaburi.
Drainage Area	2,340 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 6.00 meters from the top staff gage.
Elevation	+9.450 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, 1995 to date.
Rated by Float	-
Rated by Current Meter	1965 - 1968, 1995 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +6.10 m.(A.D.) and is included.
General Description	Records fair. Stage-discharge relation defined by 112 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	0.91	2.65	1.24	2.07	1.53	7.45	3.78	3.17	2.28	1.78	1.51	
2	0.77	0.89	2.48	1.21	1.89	1.60	8.47	3.81	3.16	2.28	1.78	1.51	
3	0.77	0.87	2.13	1.20	1.72	1.52	9.20	4.33	3.12	2.26	1.77	1.51	
4	1.14	0.94	1.86	1.15	1.61	1.70	8.61	5.80	3.09	2.24	1.77	1.51	
5	1.51	0.88	1.72	1.12	1.49	1.90	8.17	6.14	3.07	2.19	1.77	1.57	
6	1.05	0.86	1.66	1.11	1.45	2.04	7.42	5.97	3.05	2.17	1.78	1.62	
7	1.24	0.85	1.63	1.11	1.39	3.12	6.65	5.50	3.01	2.15	1.78	1.57	
8	1.00	0.85	1.61	1.08	1.26	3.18	6.04	5.15	2.98	2.13	1.77	1.56	
9	0.90	0.85	1.58	1.09	1.22	3.44	5.72	4.92	2.95	2.12	1.76	1.56	
10	0.87	0.83	1.53	1.11	1.29	3.53	5.65	4.77	2.93	2.05	1.77	1.55	
11	0.85	0.81	1.52	1.13	1.24	3.71	5.54	4.65	2.89	1.99	1.77	1.56	
12	0.84	0.81	1.56	1.13	1.20	3.82	5.33	4.48	2.86	2.13	1.75	1.56	
13	0.84	0.92	1.71	1.15	1.18	3.63	5.16	4.28	2.83	2.14	1.75	1.56	
14	0.84	0.83	1.87	1.18	1.15	3.41	4.95	4.18	2.80	2.23	1.75	1.54	
15	0.84	0.81	1.92	1.10	1.11	3.37	4.74	4.10	2.77	2.18	1.73	1.55	
16	0.84	0.81	1.82	1.08	0.90	3.47	4.57	4.20	2.74	2.27	1.75	1.64	
17	0.83	0.81	1.74	1.08	1.00	3.52	4.44	4.42	2.71	2.16	1.80	1.59	
18	0.82	0.83	1.84	1.08	1.02	3.41	4.32	4.28	2.69	2.11	1.81	1.56	
19	0.81	0.87	2.00	1.07	1.04	3.23	4.21	4.08	2.67	2.02	1.77	1.53	
20	0.80	0.83	1.98	1.08	1.06	3.06	4.09	3.90	2.56	2.05	1.69	1.50	
21	0.81	2.64	1.91	1.10	1.23	2.89	3.96	3.78	2.53	2.07	1.65	1.49	
22	0.81	2.57	1.82	1.14	1.32	2.72	3.87	3.69	2.50	2.03	1.60	1.50	
23	0.81	2.27	1.73	1.16	1.71	2.56	3.82	3.61	2.46	1.83	1.54	1.48	
24	0.96	2.02	1.66	1.12	1.79	2.43	3.76	3.54	2.43	2.06	1.54	1.47	
25	1.51	2.71	1.57	1.04	1.65	2.39	3.70	3.47	2.40	1.90	1.52	1.43	
26	0.91	3.03	1.48	1.11	1.54	2.50	3.74	3.38	2.39	1.84	1.51	1.35	
27	0.97	2.89	1.42	1.27	1.44	2.99	3.90	3.30	2.39	1.81	1.50	1.31	
28	0.89	2.64	1.36	1.26	1.50	3.58	4.04	3.27	2.36	1.79	1.51	1.29	
29	0.90	2.57	1.31	1.32	1.51	4.49	4.13	3.25	2.33	1.78		1.28	
30	0.99	2.59	1.28	1.74	1.46	6.04	4.03	3.22	2.31	1.79		1.28	
31		2.62		2.07	1.37		3.84		2.29	1.79		1.35	
Mean	0.93	1.47	1.75	1.19	1.38	3.03	5.27	4.24	2.72	2.06	1.70	1.49	
Max	1.51	3.03	2.65	2.07	2.07	6.04	9.20	6.14	3.17	2.28	1.81	1.64	9.20
Min	0.77	0.81	1.28	1.04	0.90	1.52	3.70	3.22	2.29	1.78	1.50	1.28	0.77

Annual Max Momentary Gage Height 9.35 M (A.D), at 11.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.44 M (A.D)
Left Bank Elevation 6.09 M (A.D)
Right Bank Elevation 6.11 M (A.D), Drainage Area 2340 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.48	13.20	1.95	7.38	3.46	366.80	32.30	15.80	4.86	2.01	0.93	
2	0.06	0.42	11.07	1.80	5.98	3.95	611.60	32.97	15.60	4.86	2.01	0.93	
3	0.06	0.36	7.92	1.75	4.79	3.39	860.00	47.15	14.80	4.72	1.96	0.93	
4	1.45	0.57	5.77	1.50	4.02	4.65	657.40	135.60	14.22	4.58	1.96	0.93	
5	3.32	0.39	4.79	1.35	3.20	6.05	527.60	170.24	13.86	4.23	1.96	1.11	
6	1.00	0.33	4.37	1.30	3.00	7.11	361.28	151.24	13.50	4.09	2.01	1.29	
7	1.95	0.30	4.16	1.30	2.70	19.73	233.60	108.00	12.78	3.95	2.01	1.11	
8	0.75	0.30	4.02	1.15	2.05	20.72	158.64	82.80	12.32	3.81	1.96	1.08	
9	0.45	0.30	3.81	1.20	1.85	25.01	128.24	68.84	11.90	3.74	1.92	1.08	
10	0.36	0.24	3.46	1.30	2.20	26.67	121.80	62.92	11.62	3.30	1.96	1.05	
11	0.30	0.18	3.39	1.40	1.95	30.72	111.68	58.18	11.06	2.96	1.96	1.08	
12	0.27	0.18	3.67	1.40	1.75	33.20	95.76	51.65	10.64	3.81	1.88	1.08	
13	0.27	0.51	4.72	1.50	1.65	28.93	83.52	45.65	10.22	3.88	1.88	1.08	
14	0.27	0.24	5.84	1.65	1.50	24.52	70.02	42.65	9.80	4.51	1.88	1.02	
15	0.27	0.18	6.19	1.25	1.30	23.85	61.73	40.25	9.47	4.16	1.79	1.05	
16	0.27	0.18	5.49	1.15	0.45	25.51	55.02	43.25	9.14	4.79	1.88	1.38	
17	0.24	0.18	4.93	1.15	0.75	26.45	50.45	49.85	8.81	4.02	2.10	1.17	
18	0.21	0.24	5.63	1.15	0.85	24.52	46.85	45.65	8.60	3.67	2.14	1.08	
19	0.18	0.36	6.75	1.10	0.95	21.54	43.55	39.65	8.40	3.12	1.96	0.99	
20	0.15	0.24	6.61	1.15	1.05	18.74	39.95	35.00	7.34	3.30	1.61	0.90	
21	0.18	13.07	6.12	1.25	1.90	16.32	36.35	32.30	7.07	3.42	1.42	0.87	
22	0.18	12.16	5.49	1.45	2.35	14.11	34.32	30.28	6.80	3.18	1.20	0.90	
23	0.18	9.18	4.86	1.55	4.72	12.03	33.20	28.47	6.44	2.24	1.02	0.84	
24	0.63	6.93	4.37	1.35	5.28	10.62	31.85	25.04	6.17	3.36	1.02	0.81	
25	3.32	13.98	3.74	0.95	4.30	10.26	30.50	22.93	5.90	2.55	0.96	0.69	
26	0.48	18.24	3.15	1.30	3.53	11.25	31.40	20.42	5.81	2.28	0.93	0.45	
27	0.66	16.32	2.85	2.10	2.95	17.62	35.00	18.50	5.81	2.14	0.90	0.33	
28	0.42	13.07	2.55	2.05	3.25	27.80	38.45	17.87	5.54	2.05	0.93	0.27	
29	0.45	12.16	2.30	2.35	3.32	51.95	41.15	17.45	5.27	2.01		0.24	
30	0.72	12.42	2.15	4.93	3.05	158.64	38.15	16.82	5.09	2.05		0.24	
31		12.81		7.38	2.60		33.65		4.93	2.05		0.45	
Total	19.11	146.52	153.37	54.16	86.62	709.32	5069.51	1573.92	294.71	107.69	47.22	27.36	8289.51 CMSDAY
Mean	0.64	4.73	5.11	1.75	2.79	23.64	163.53	52.46	9.51	3.47	1.69	0.88	22.71 CMS
Max	3.32	18.24	13.20	7.38	7.38	158.64	860.00	170.24	15.80	4.86	2.14	1.38	860.00 CMS
Min	0.06	0.18	2.15	0.95	0.45	3.39	30.50	16.82	4.93	2.01	0.90	0.24	0.06 CMS
Runoff	1.651	12.659	13.251	4.679	7.484	61.285	438.006	135.987	25.463	9.304	4.080	2.364	716.214 MCM

Momentary Peak 920.00 CMS, at 9.35 M (A.D), at 11.00 Hours, on Oct 3, 1996

Runoff Yield 9.71 Liters/Second/Square KM, Momentary Peak Yield 393.162 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

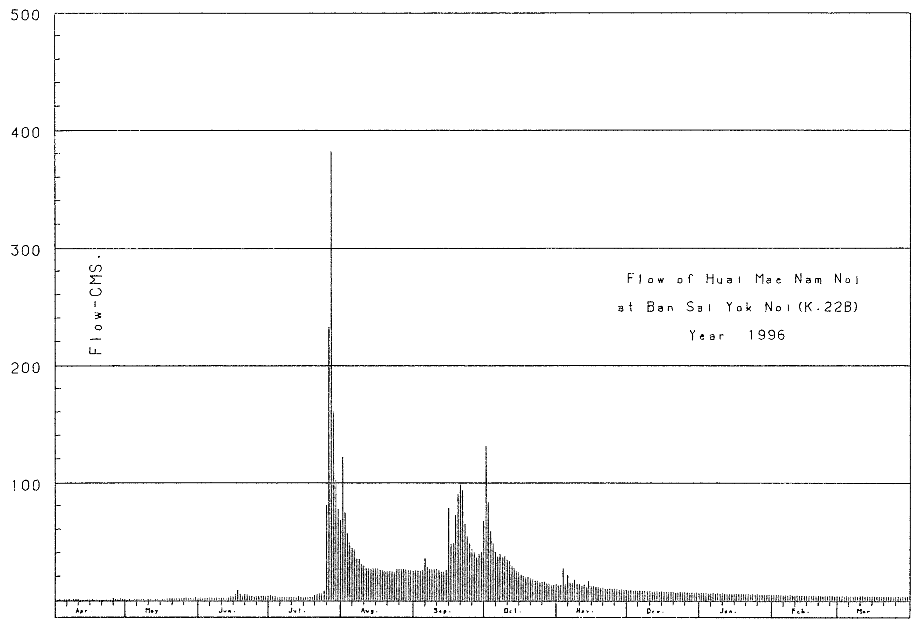
Huai Mae Nam Noi at Ban Sai Yok Noi, Kanchanaburi (K.22B)

Location	Lat. 14°26′59″ N., Long. 98°48′08″ E., on right bank about 640 meters upstream from station K.22A, Amphoe Sai Yok, Kanchanaburi.
Drainage Area	320 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+67.00 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On right bank about 10 meters from the top staff gage.
Elevation	+73.578 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	1989 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +72.19 m.(M.S.L.) and is included.
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.97	67.98	68.10	68.31	70.67	69.20	70.78	68.82	68.60	68.46	68.37	68.28	
2	67.97	67.97	68.07	68.23	70.08	69.20	70.19	68.82	68.60	68.46	68.36	68.27	
3	67.97	67.96	68.09	68.20	69.82	69.19	69.85	69.25	68.59	68.45	68.36	68.27	
4	67.97	67.98	68.12	68.19	69.68	69.21	69.67	68.84	68.59	68.45	68.35	68.27	
5	67.97	67.99	68.12	68.16	69.60	69.43	69.54	69.10	68.58	68.44	68.35	68.27	
6	68.00	67.97	68.10	68.15	69.57	69.26	69.46	68.90	68.58	68.44	68.34	68.26	
7	67.97	67.97	68.07	68.17	69.42	69.23	69.49	68.87	68.57	68.44	68.34	68.26	
8	68.01	67.96	68.11	68.14	69.41	69.21	69.45	68.96	68.57	68.43	68.34	68.26	
9	68.00	67.98	68.10	68.17	69.33	69.22	69.46	68.85	68.56	68.43	68.33	68.26	
10	67.97	68.01	68.09	68.14	69.29	69.22	69.40	68.83	68.56	68.43	68.33	68.28	
11	67.97	68.03	68.08	68.13	69.25	69.20	69.38	68.81	68.55	68.42	68.33	68.29	
12	67.96	67.98	68.07	68.15	69.24	69.18	69.30	68.83	68.54	68.42	68.32	68.27	
13	67.95	68.00	68.11	68.22	69.24	69.17	69.24	68.77	68.54	68.42	68.32	68.26	
14	67.95	68.01	68.23	68.18	69.24	69.21	69.19	68.93	68.53	68.41	68.32	68.25	
15	68.01	67.98	68.22	68.15	69.24	70.13	69.16	68.80	68.53	68.41	68.32	68.25	
16	67.97	67.98	68.36	68.14	69.23	69.66	69.12	68.77	68.52	68.41	68.31	68.24	
17	67.96	67.99	68.62	68.15	69.21	69.68	69.07	68.75	68.52	68.41	68.31	68.24	
18	67.95	68.03	68.38	68.17	69.20	70.04	69.04	68.73	68.51	68.40	68.31	68.23	
19	67.95	68.12	68.32	68.19	69.18	70.28	69.03	68.72	68.51	68.40	68.30	68.23	
20	67.94	68.03	68.39	68.31	69.17	70.38	69.02	68.70	68.50	68.40	68.30	68.23	
21	67.93	68.06	68.38	68.38	69.19	70.32	68.98	68.69	68.50	68.40	68.30	68.23	
22	67.96	68.08	68.29	68.43	69.18	69.94	68.95	68.68	68.49	68.39	68.29	68.22	
23	67.96	68.04	68.22	68.39	69.16	69.77	68.93	68.67	68.49	68.39	68.29	68.22	
24	67.95	68.05	68.21	68.59	69.23	69.67	68.90	68.67	68.49	68.39	68.29	68.22	
25	68.10	68.11	68.23	70.16	69.23	69.58	68.89	68.66	68.48	68.39	68.28	68.22	
26	67.99	68.12	68.25	71.79	69.22	69.52	68.92	68.65	68.48	68.38	68.28	68.22	
27	67.99	68.08	68.29	73.06	69.24	69.44	68.87	68.64	68.48	68.38	68.28	68.22	
28	68.05	68.05	68.25	71.11	69.21	69.50	68.85	68.64	68.47	68.38	68.28	68.25	
29	68.03	68.07	68.26	70.43	69.20	69.53	68.83	68.63	68.47	68.38		68.24	
30	67.99	68.16	68.27	70.11	69.20	69.97	68.81	68.61	68.47	68.37		68.22	
31		68.13		69.98	69.19		68.84		68.46	68.37		68.27	
Mean	67.98	68.03	68.21	68.84	69.37	69.55	69.25	68.79	68.53	68.41	68.32	68.25	
Max	68.10	68.16	68.62	73.06	70.67	70.38	70.78	69.25	68.60	68.46	68.37	68.29	73.06
Min	67.93	67.96	68.07	68.13	69.16	69.17	68.81	68.61	68.46	68.37	68.28	68.22	67.93

Annual Max Momentary Gage Height 74.18 M (MSL), at 13.00 Hours, on Jul 27, 1996
Zero Gage at Bottom Elevation 67.00 M (MSL), River Bed 67.41 M (MSL)
Left Bank Elevation 75.94 M (MSL)
Right Bank Elevation 72.18 M (MSL), Drainage Area 320 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	1.30	2.50	4.65	122.95	26.00	132.30	13.60	9.00	6.90	5.55	4.30	
2	1.20	1.20	2.20	3.80	75.60	26.00	83.75	13.60	9.00	6.90	5.40	4.20	
3	1.20	1.10	2.40	3.50	57.80	25.60	59.75	28.00	8.85	6.75	5.40	4.20	
4	1.20	1.30	2.70	3.40	49.60	26.40	49.02	14.20	8.85	6.75	5.25	4.20	
5	1.20	1.40	2.70	3.10	45.00	36.50	42.00	22.00	8.70	6.60	5.25	4.20	
6	1.50	1.20	2.50	3.00	43.50	28.40	38.00	16.00	8.70	6.60	5.10	4.10	
7	1.20	1.20	2.20	3.20	36.00	27.20	39.50	15.10	8.55	6.60	5.10	4.10	
8	1.60	1.10	2.60	2.90	35.50	26.40	37.50	17.80	8.55	6.45	5.10	4.10	
9	1.50	1.30	2.50	3.20	31.50	26.80	38.00	14.50	8.40	6.45	4.95	4.10	
10	1.20	1.60	2.40	2.90	29.60	26.80	35.00	13.90	8.40	6.45	4.95	4.30	
11	1.20	1.80	2.30	2.80	28.00	26.00	34.00	13.30	8.25	6.30	4.95	4.40	
12	1.10	1.30	2.20	3.00	27.60	25.20	30.00	13.90	8.10	6.30	4.80	4.20	
13	1.00	1.50	2.60	3.70	27.60	24.80	27.60	12.40	8.10	6.30	4.80	4.10	
14	1.00	1.60	3.80	3.30	27.60	26.40	25.60	16.90	7.95	6.15	4.80	4.00	
15	1.60	1.30	3.70	3.00	27.60	79.25	24.40	13.00	7.95	6.15	4.80	4.00	
16	1.20	1.30	5.40	2.90	27.20	48.45	22.80	12.40	7.80	6.15	4.65	3.90	
17	1.10	1.40	9.40	3.00	26.40	49.60	21.10	12.00	7.80	6.15	4.65	3.90	
18	1.00	1.80	5.70	3.20	26.00	72.80	20.20	11.60	7.65	6.00	4.65	3.80	
19	1.00	2.70	4.80	3.40	25.20	90.90	19.90	11.40	7.65	6.00	4.50	3.80	
20	0.90	1.80	5.85	4.65	24.80	98.90	19.60	11.00	7.50	6.00	4.50	3.80	
21	0.80	2.10	5.70	5.70	25.60	94.10	18.40	10.80	7.50	6.00	4.50	3.80	
22	1.10	2.30	4.40	6.45	25.20	65.80	17.50	10.60	7.35	5.85	4.40	3.70	
23	1.10	1.90	3.70	5.85	24.40	54.77	16.90	10.40	7.35	5.85	4.40	3.70	
24	1.00	2.00	3.60	8.85	27.20	49.02	16.00	10.40	7.35	5.85	4.40	3.70	
25	2.50	2.60	3.80	81.50	27.20	44.00	15.70	10.20	7.20	5.85	4.30	3.70	
26	1.40	2.70	4.00	232.90	26.80	41.00	16.60	10.00	7.20	5.70	4.30	3.70	
27	1.40	2.30	4.40	382.60	27.60	37.00	15.10	9.80	7.20	5.70	4.30	3.70	
28	2.00	2.00	4.00	161.50	26.40	40.00	14.50	9.80	7.05	5.70	4.30	4.00	
29	1.80	2.20	4.10	102.90	26.00	41.50	13.90	9.60	7.05	5.70		3.90	
30	1.40	3.10	4.20	77.75	26.00	67.90	13.30	9.20	7.05	5.55		3.70	
31		2.80		68.60	25.60		14.20		6.90	5.55		4.20	
Total	38.60	55.20	112.35	1201.20	1083.05	1353.49	972.12	397.40	244.95	191.25	134.05	123.50	5907.16 CMSDAY
Mean	1.29	1.78	3.74	38.75	34.94	45.12	31.36	13.25	7.90	6.17	4.79	3.98	16.18 CMS
Max	2.50	3.10	9.40	382.60	122.95	98.90	132.30	28.00	9.00	6.90	5.55	4.40	382.60 CMS
Min	0.80	1.10	2.20	2.80	24.40	24.80	13.30	9.20	6.90	5.55	4.30	3.70	0.80 CMS
Runoff	3.335	4.769	9.707	103.784	93.576	116.942	83.991	34.335	21.164	16.524	11.582	10.670	510.379 MCM

Momentary Peak 505.80 CMS, at 74.18 M (MSL), at 13.00 Hours, on Jul 27, 1996

Runoff Yield 50.57 Liters/Second/Square KM, Momentary Peak Yield 1580.625 Liters/Second/Square KM

WATER YEAR 1996

MAE KHLONG RIVER BASIN

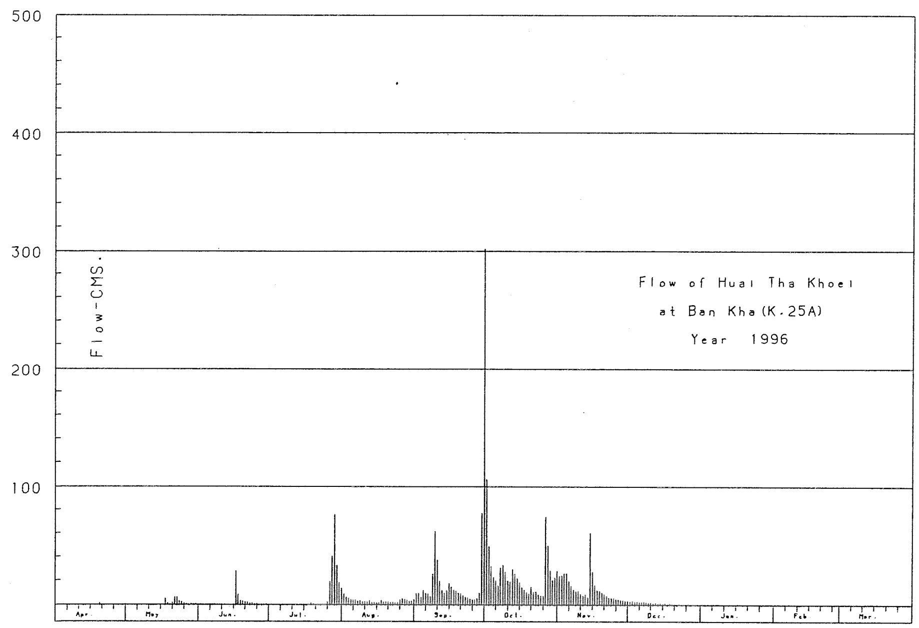
Huai Tha Khoei at Ban Kha, Ratchaburi (K.25A)

Location	Lat. 13°-24′-07″ N., Long. 99°-25′-14″ E., on right bank about 8 kilometers upstream from station K.25, Amphoe Suan Phung, Ratchaburi.
Drainage Area	250 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 meter from the top staff gage.
Elevation	+6.962 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	1994 to date.
Rating Operation	
Period of Rating	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.85 m.(A.D.) and is included.
General Description	Records fair. Stage-discharge relation defined by 45 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.52	0.65	0.55	1.35	1.37	3.26	1.91	0.91	0.54	0.43	0.36	
2	0.34	0.51	0.56	0.53	1.21	1.38	2.48	1.94	0.91	0.54	0.43	0.36	
3	0.34	0.48	0.54	0.54	1.13	1.21	2.13	1.97	0.90	0.54	0.43	0.36	
4	0.48	0.48	0.59	0.52	1.06	1.50	1.90	1.99	0.87	0.53	0.41	0.36	
5	0.42	0.47	0.61	0.51	1.02	1.40	1.80	1.80	0.85	0.52	0.41	0.35	
6	0.40	0.54	0.64	0.62	0.99	1.34	1.67	1.65	0.82	0.51	0.41	0.33	
7	0.41	0.57	0.59	0.53	0.94	1.23	2.10	1.52	0.90	0.51	0.40	0.33	
8	0.39	0.50	0.61	0.51	0.94	1.96	2.16	1.48	0.82	0.51	0.40	0.33	
9	0.37	0.52	0.58	0.50	0.89	2.68	2.01	1.47	0.80	0.50	0.40	0.33	
10	0.37	0.53	0.67	0.49	0.86	2.26	1.81	1.35	0.78	0.50	0.40	0.32	
11	0.36	0.47	0.57	0.49	0.89	1.79	1.77	1.27	0.76	0.49	0.39	0.33	
12	0.35	0.50	0.55	0.49	0.97	1.52	2.08	1.33	0.75	0.49	0.39	0.33	
13	0.35	0.52	0.54	0.49	0.83	1.38	1.96	1.20	0.73	0.48	0.38	0.37	
14	0.37	0.57	0.58	0.63	0.78	1.51	1.87	2.67	0.71	0.48	0.38	0.38	
15	0.40	0.48	0.55	0.63	0.76	1.74	1.75	2.02	0.69	0.47	0.38	0.36	
16	0.38	0.56	2.04	0.55	0.74	1.62	1.62	1.68	0.68	0.47	0.37	0.34	
17	0.38	1.12	1.32	0.52	1.00	1.53	1.52	1.52	0.67	0.47	0.37	0.34	
18	0.42	0.69	0.99	0.76	0.82	1.47	1.44	1.49	0.67	0.46	0.37	0.34	
19	0.78	0.67	0.90	0.60	0.87	1.41	1.36	1.42	0.66	0.46	0.38	0.33	
20	0.47	0.82	0.88	0.56	0.81	1.36	1.62	1.34	0.65	0.45	0.38	0.33	
21	0.43	1.16	0.81	0.53	0.83	1.27	1.43	1.28	0.63	0.45	0.38	0.34	
22	0.43	1.21	0.76	0.52	0.85	1.21	1.47	1.15	0.62	0.45	0.38	0.33	
23	0.42	0.96	0.72	0.55	0.75	1.15	1.34	1.16	0.61	0.45	0.38	0.32	
24	0.40	0.83	0.69	0.55	0.82	1.11	1.26	1.13	0.60	0.44	0.37	0.33	
25	0.39	0.75	0.68	0.88	1.01	1.07	1.28	1.10	0.59	0.44	0.36	0.32	
26	0.41	0.69	0.66	1.79	1.11	1.04	2.86	1.05	0.58	0.43	0.36	0.31	
27	0.46	0.66	0.64	2.32	1.09	1.13	2.49	1.03	0.57	0.43	0.36	0.31	
28	0.54	0.64	0.62	2.89	0.99	1.40	2.05	0.99	0.57	0.43	0.36	0.31	
29	0.64	0.66	0.59	2.16	0.94	2.90	1.81	0.96	0.56	0.43		0.31	
30	0.65	0.61	0.57	1.74	0.93	4.66	1.89	0.93	0.56	0.43		0.31	
31		0.62		1.59	1.03		2.03		0.55	0.43		0.31	
Mean	0.43	0.66	0.72	0.86	0.94	1.62	1.88	1.46	0.71	0.48	0.39	0.33	
Max	0.78	1.21	2.04	2.89	1.35	4.66	3.26	2.67	0.91	0.54	0.43	0.38	4.66
Min	0.34	0.47	0.54	0.49	0.74	1.04	1.26	0.93	0.55	0.43	0.36	0.31	0.31

Annual Max Momentary Gage Height 6.04 M (A.D), at 12.00 Hours, on Sep 30, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.09 M (A.D)
Left Bank Elevation 4.84 M (A.D)
Right Bank Elevation 8.02 M (A.D), Drainage Area 250 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.70	1.40	0.85	9.50	9.86	107.08	24.47	3.40	0.80	0.36	0.19	
2	0.16	0.65	0.90	0.75	7.16	10.04	50.26	25.58	3.40	0.80	0.36	0.19	
3	0.16	0.53	0.80	0.80	5.95	7.16	32.92	26.69	3.30	0.80	0.36	0.19	
4	0.53	0.53	1.05	0.70	5.02	12.50	24.10	27.43	3.03	0.75	0.28	0.19	
5	0.32	0.50	1.16	0.65	4.54	10.40	20.70	20.70	2.85	0.70	0.28	0.17	
6	0.25	0.80	1.34	1.22	4.20	9.32	16.79	16.25	2.58	0.65	0.28	0.15	
7	0.28	0.95	1.05	0.75	3.70	7.48	31.60	12.98	3.30	0.65	0.25	0.15	
8	0.23	0.60	1.16	0.65	3.70	26.32	34.24	12.08	2.58	0.65	0.25	0.15	
9	0.21	0.70	1.00	0.60	3.21	62.56	28.18	11.87	2.40	0.60	0.25	0.15	
10	0.21	0.75	1.52	0.57	2.94	38.76	21.04	9.50	2.26	0.60	0.25	0.13	
11	0.19	0.50	0.95	0.57	3.21	20.39	19.77	8.12	2.12	0.57	0.23	0.15	
12	0.17	0.60	0.85	0.57	4.00	12.98	30.84	9.14	2.05	0.57	0.23	0.15	
13	0.17	0.70	0.80	0.57	2.67	10.04	26.32	7.00	1.91	0.53	0.22	0.21	
14	0.21	0.95	1.00	1.28	2.26	12.74	23.08	61.94	1.77	0.53	0.22	0.22	
15	0.25	0.53	0.85	1.28	2.12	18.84	19.15	28.56	1.64	0.50	0.22	0.19	
16	0.22	0.90	29.32	0.85	1.98	15.44	15.44	17.06	1.58	0.50	0.21	0.16	
17	0.22	5.80	8.96	0.70	4.30	13.22	12.98	12.98	1.52	0.50	0.21	0.16	
18	0.32	1.64	4.20	2.12	2.58	11.87	11.24	12.29	1.52	0.46	0.21	0.16	
19	2.26	1.52	3.30	1.10	3.03	10.61	9.68	10.82	1.46	0.46	0.22	0.15	
20	0.50	2.58	3.12	0.90	2.49	9.68	15.44	9.32	1.40	0.42	0.22	0.15	
21	0.36	6.40	2.49	0.75	2.67	8.12	11.03	8.28	1.28	0.42	0.22	0.16	
22	0.36	7.16	2.12	0.70	2.85	7.16	11.87	6.25	1.22	0.42	0.22	0.15	
23	0.32	3.90	1.84	0.85	2.05	6.25	9.32	6.40	1.16	0.42	0.22	0.13	
24	0.25	2.67	1.64	0.85	2.58	5.65	7.96	5.95	1.10	0.39	0.21	0.15	
25	0.23	2.05	1.58	3.12	4.42	5.14	8.28	5.50	1.05	0.39	0.19	0.13	
26	0.28	1.64	1.46	20.39	5.65	4.78	75.04	4.90	1.00	0.36	0.19	0.11	
27	0.46	1.46	1.34	41.62	5.38	5.95	50.83	4.66	0.95	0.36	0.19	0.11	
28	0.80	1.34	1.22	77.26	4.20	10.40	29.70	4.20	0.95	0.36	0.19	0.11	
29	1.34	1.46	1.05	34.24	3.70	78.00	21.04	3.90	0.90	0.36		0.11	
30	1.40	1.16	0.95	18.84	3.60	302.07	23.76	3.60	0.90	0.36		0.11	
31		1.22		14.66	4.66		28.94		0.85	0.36		0.11	
Total	12.83	52.89	80.42	230.76	120.32	763.73	828.62	418.42	57.43	16.24	6.74	4.74	2593.14 CMSDAY
Mean	0.43	1.71	2.68	7.44	3.88	25.46	26.73	13.95	1.85	0.52	0.24	0.15	7.10 CMS
Max	2.26	7.16	29.32	77.26	9.50	302.07	107.08	61.94	3.40	0.80	0.36	0.22	302.07 CMS
Min	0.16	0.50	0.80	0.57	1.98	4.78	7.96	3.60	0.85	0.36	0.19	0.11	0.11 CMS
Runoff	1.109	4.570	6.948	19.938	10.396	65.986	71.593	36.151	4.962	1.403	0.582	0.410	224.047 MCM

Momentary Peak 558.14 CMS, at 6.04 M (A.D), at 12.00 Hours, on Sep 30, 1996

Runoff Yield 28.42 Liters/Second/Square KM, Momentary Peak Yield 2232.560 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

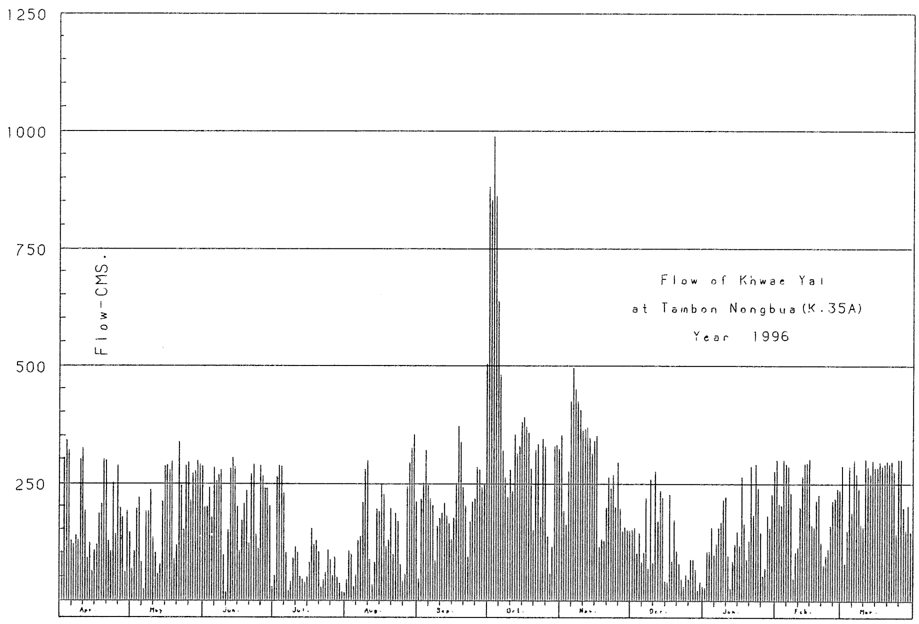
Khwae Yai River at Ban Nong Bua, Kanchanaburi (K.35A)

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	Water-Stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 3 meters from the third staff gage.
Elevation	+7.667 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 - 1985, 1987 to date
Rated by Float	-
Rated by Current Meter	1984 - 1985, 1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +7.11 m.(A.D.) and is included.
General Description	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 58 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.93	2.53	3.72	2.39	2.26	2.28	7.49	4.79	3.34	2.04	4.45	4.36	
2	4.47	2.93	3.74	4.21	2.93	3.86	7.36	3.66	3.36	2.92	3.77	2.67	
3	4.72	3.69	4.04	4.36	2.87	4.11	7.95	3.42	2.88	2.92	3.76	3.32	
4	4.58	3.89	3.56	4.36	2.07	4.59	7.41	4.29	3.28	3.38	4.44	4.35	
5	3.14	2.71	4.34	3.95	2.39	4.08	6.37	5.22	2.71	2.86	4.39	3.64	
6	3.06	1.98	4.15	2.89	3.13	3.86	5.53	5.62	2.91	3.08	4.35	4.44	
7	3.24	3.65	4.23	1.93	3.22	3.76	4.58	5.36	3.87	3.36	3.96	4.25	
8	3.14	3.66	4.30	2.20	3.81	2.72	4.19	5.21	2.54	3.48	2.31	4.03	
9	4.46	4.00	2.86	2.79	4.31	3.39	3.90	5.11	4.17	3.84	2.90	3.42	
10	4.61	3.19	1.87	3.02	4.44	3.54	4.31	4.84	2.69	3.90	3.02	3.38	
11	3.66	2.90	3.32	2.90	2.75	3.62	3.98	4.87	4.28	2.83	3.72	4.46	
12	2.79	2.43	4.33	2.34	2.12	3.80	4.79	4.88	3.49	2.01	4.21	4.35	
13	3.08	2.64	4.48	2.26	2.70	3.58	4.53	4.75	4.00	2.71	4.40	4.25	
14	2.49	3.82	4.34	2.19	3.69	3.45	4.64	4.54	3.87	3.06	4.40	4.43	
15	2.94	4.36	3.74	2.35	3.66	3.16	4.95	4.70	2.21	3.31	4.45	4.33	
16	3.06	4.37	2.93	2.70	4.09	3.54	5.02	4.77	2.20	3.03	3.42	4.34	
17	3.61	4.31	3.49	3.35	3.94	4.12	4.89	3.02	3.94	4.21	3.37	4.41	
18	3.78	4.42	3.78	3.05	3.01	4.91	4.82	3.16	2.71	3.43	3.83	4.35	
19	4.45	2.76	4.00	3.14	3.15	4.69	4.33	3.14	3.50	2.76	3.93	4.39	
20	4.44	3.04	3.08	2.92	3.70	4.04	3.32	3.72	2.93	3.14	3.09	4.42	
21	3.12	4.70	4.24	2.04	2.85	3.74	4.58	4.20	2.67	4.35	2.62	4.38	
22	2.92	4.08	4.39	2.26	3.63	2.82	4.67	4.04	2.30	3.59	2.84	4.43	
23	4.24	3.34	3.26	2.45	3.49	3.48	3.57	4.23	2.04	4.39	2.97	4.29	
24	3.25	4.36	2.99	2.96	2.65	3.81	4.73	3.72	2.39	4.03	3.41	3.25	
25	4.38	4.42	4.36	2.76	2.21	3.87	4.63	4.42	2.29	3.29	3.82	4.45	
26	3.72	3.83	4.21	2.37	2.42	4.34	3.22	3.70	2.75	2.38	3.87	4.46	
27	3.56	4.25	4.03	2.80	4.05	4.31	2.43	3.31	2.76	2.55	4.03	3.72	
28	2.47	4.29	4.02	2.34	4.41	4.04	3.01	3.37	2.54	3.59	3.99	3.32	
29	3.66	4.43	3.75	2.17	4.61	4.10	4.64	3.33	1.94	3.36		3.75	
30	3.29	4.38	2.04	1.87	4.79	5.66	4.65	3.31	2.19	3.93		3.30	
31		4.36		1.86	3.81		4.60		2.05	4.29		3.20	
Mean	3.58	3.67	3.72	2.75	3.33	3.84	4.81	4.22	2.93	3.29	3.70	4.00	
Max	4.72	4.70	4.48	4.36	4.79	5.66	7.95	5.62	4.28	4.39	4.45	4.46	7.95
Min	2.47	1.98	1.87	1.86	2.07	2.28	2.43	3.02	1.94	2.01	2.31	2.67	1.86

Annual Max Momentary Gage Height 8.43 M (AD), at 19.00 Hours, on Oct 3, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.47 M (AD)
Left Bank Elevation 7.10 M (AD)
Right Bank Elevation 10.65 M (AD), Drainage Area 14528 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.3	67.7	199.6	55.2	45.2	46.6	881.8	354.4	152.8	29.8	301.5	288.0	
2	304.5	106.3	202.2	265.5	106.3	217.8	853.2	191.8	155.2	105.2	206.1	80.3	
3	343.2	195.7	241.6	288.0	100.0	251.4	990.0	162.4	101.0	105.2	204.8	150.4	
4	321.0	221.7	179.2	288.0	31.9	322.5	864.2	277.5	145.6	157.6	300.0	286.5	
5	129.4	84.0	285.0	229.5	55.2	247.2	640.0	426.4	84.0	99.0	292.5	189.2	
6	120.6	25.8	257.0	102.0	128.3	217.8	481.4	497.6	104.1	122.8	286.5	300.0	
7	140.8	190.5	268.5	22.8	138.4	204.8	321.0	450.8	219.1	155.2	230.8	271.5	
8	129.4	191.8	279.0	41.0	211.3	85.0	262.6	424.7	68.6	169.6	48.8	240.2	
9	303.0	236.0	99.0	92.0	280.5	158.8	223.0	407.7	259.8	215.2	103.0	162.4	
10	325.6	134.9	19.5	116.2	300.0	176.8	280.5	362.4	82.1	223.0	116.2	157.6	
11	191.8	103.0	150.4	103.0	88.0	186.6	233.4	367.2	276.0	96.0	199.6	303.0	
12	92.0	58.7	283.5	51.2	35.4	210.0	354.4	368.8	170.8	27.7	265.5	286.5	
13	122.8	77.6	306.0	45.2	83.0	181.6	313.5	348.0	236.0	84.0	294.0	271.5	
14	64.1	212.6	285.0	40.3	195.7	166.0	330.4	315.0	219.1	120.6	294.0	298.5	
15	107.4	288.0	202.2	52.0	191.8	131.6	380.5	340.0	41.7	149.2	301.5	283.5	
16	120.6	289.5	106.3	83.0	248.6	176.8	392.4	351.2	41.0	117.3	162.4	285.0	
17	185.3	280.5	170.8	154.0	228.2	252.8	370.4	116.2	228.2	265.5	156.4	295.5	
18	207.4	297.0	207.4	119.5	115.1	373.7	359.2	131.6	84.0	163.6	213.9	286.5	
19	301.5	89.0	236.0	129.4	130.5	338.4	283.5	129.4	172.0	89.0	226.9	292.5	
20	300.0	118.4	122.8	105.2	197.0	241.6	150.4	199.6	106.3	129.4	123.9	297.0	
21	127.2	340.0	270.0	29.8	98.0	202.2	321.0	264.0	80.3	286.5	75.8	291.0	
22	105.2	247.2	292.5	45.2	187.9	95.0	335.2	241.6	48.0	182.8	97.0	298.5	
23	270.0	152.8	143.2	60.5	170.8	169.6	180.4	268.5	29.8	292.5	110.7	277.5	
24	142.0	288.0	112.9	109.6	78.5	211.3	344.8	199.6	55.2	240.2	161.2	142.0	
25	291.0	297.0	288.0	89.0	41.7	219.1	328.8	297.0	47.3	146.8	212.6	301.5	
26	199.6	213.9	265.5	53.6	57.8	285.0	138.4	197.0	88.0	54.4	219.1	303.0	
27	179.2	271.5	240.2	93.0	243.0	280.5	58.7	149.2	89.0	69.5	240.2	199.6	
28	62.3	277.5	238.8	51.2	295.5	241.6	115.1	156.4	68.6	182.8	234.7	150.4	
29	191.8	298.5	203.5	38.9	325.6	250.0	330.4	151.6	23.4	155.2		203.5	
30	146.8	291.0	29.8	19.5	354.4	504.8	332.0	149.2	40.3	226.9		148.0	
31		288.0		19.0	211.3		324.0		30.5	277.5		136.0	
Total	5631.8	6234.1	6185.4	2992.3	4974.9	6646.9	11774.6	8296.8	3547.8	4740.0	5679.6	7476.6	74180.8 CMSDAY
Mean	187.7	201.1	206.2	96.5	160.5	221.6	379.8	276.6	114.4	152.9	202.8	241.2	203.2 CMS
Max	343.2	340.0	306.0	288.0	354.4	504.8	990.0	497.6	276.0	292.5	301.5	303.0	990.0 CMS
Min	62.3	25.8	19.5	19.0	31.9	46.6	58.7	116.2	23.4	27.7	48.8	80.3	19.0 CMS
Runoff	486.59	538.63	534.42	258.53	429.83	574.29	1017.33	716.84	306.53	409.54	490.72	645.98	6409.22 MCM

Momentary Peak 1105.20 CMS, at 8.43 M (AD), at 19.00 Hours, on Oct 3, 1996

Runoff Yield 13.99 Liters/Second/Square KM, Momentary Peak Yield 76.074 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

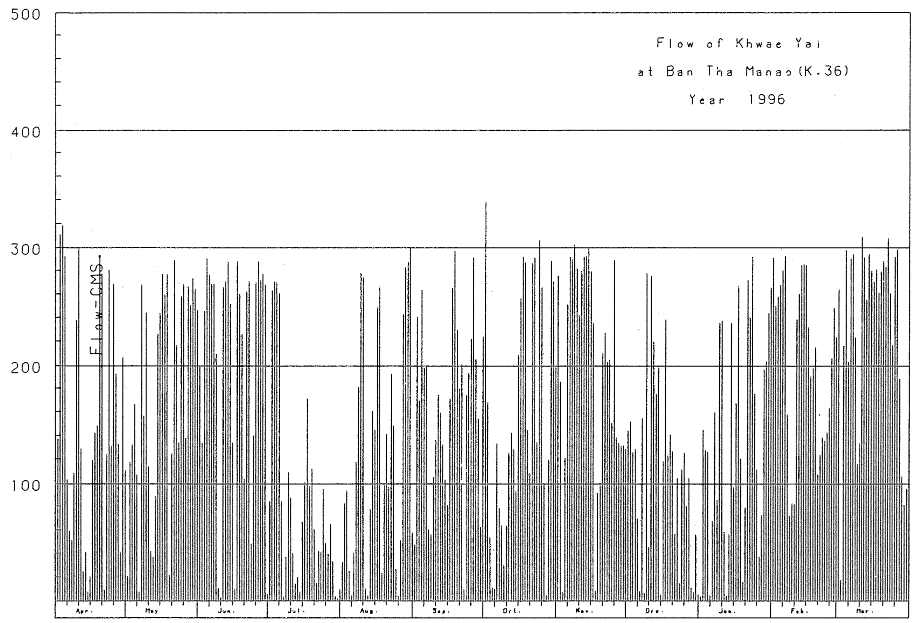
Khwae Yai River at Ban Tha Manao, Kanchanaburi (K.36)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 46 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.33	1.98	3.83	2.81	2.17	2.38	4.85	4.40	3.39	1.58	4.51	4.32	
2	4.65	3.15	3.30	4.31	2.79	4.15	3.59	3.73	3.46	3.40	4.22	1.93	
3	4.71	3.28	4.19	4.37	2.91	3.60	2.46	1.72	3.22	3.24	4.28	3.96	
4	4.53	3.58	4.51	4.36	2.07	4.32	1.81	3.18	3.25	3.23	4.35	4.56	
5	3.01	3.05	4.41	4.30	1.64	3.82	1.79	4.23	2.65	1.64	4.44	3.86	
6	2.52	1.71	4.35	2.81	2.29	3.83	3.29	4.52	1.73	2.63	4.52	4.51	
7	2.43	4.35	4.35	1.59	3.15	2.54	2.75	4.50	3.48	3.52	3.51	4.53	
8	3.06	3.49	3.91	2.24	3.69	2.48	2.58	4.59	1.71	2.83	2.68	4.02	
9	4.13	4.18	1.79	3.07	4.42	3.03	2.14	4.45	4.42	4.11	2.79	3.13	
10	4.57	3.11	1.57	2.85	4.39	3.32	2.58	4.16	2.35	4.13	2.79	3.30	
11	3.25	2.30	4.33	2.28	1.78	3.64	3.22	4.43	4.40	2.51	4.13	4.64	
12	2.06	2.24	4.37	1.87	1.62	3.52	3.38	4.52	3.99	1.63	4.29	4.51	
13	2.30	2.86	4.49	1.98	2.74	3.28	3.25	4.52	3.65	2.49	4.47	4.26	
14	1.73	4.04	4.23	1.72	3.53	3.00	2.91	4.57	3.82	4.11	4.47	4.53	
15	1.98	4.17	3.30	2.62	3.40	2.78	3.90	4.43	1.66	2.94	4.47	4.43	
16	3.16	4.41	1.79	2.98	4.21	3.62	4.27	4.11	3.16	3.59	4.08	4.37	
17	3.37	4.29	4.49	3.62	4.34	4.33	4.52	1.75	4.13	4.34	3.76	4.44	
18	3.43	4.41	4.29	2.95	2.03	4.55	4.48	2.89	3.20	3.18	3.82	4.30	
19	4.53	2.01	4.04	3.10	2.98	4.07	3.40	2.98	3.36	1.90	3.95	4.43	
20	4.41	3.21	3.01	2.54	3.36	3.68	3.06	3.91	3.23	2.75	3.05	4.49	
21	1.77	4.50	4.31	1.89	2.94	3.84	4.48	4.05	2.49	4.38	3.20	4.46	
22	3.21	3.96	4.37	2.31	3.78	1.79	4.51	3.86	3.02	4.15	3.34	4.63	
23	4.44	3.30	2.39	2.29	3.43	3.64	3.30	3.87	1.89	4.52	3.31	4.30	
24	3.27	4.28	3.35	2.93	2.09	3.78	4.62	3.45	3.09	3.65	3.38	3.97	
25	4.35	4.35	4.36	2.39	1.63	4.01	4.33	4.50	3.22	3.09	3.55	4.52	
26	3.78	3.33	4.49	2.27	2.42	4.51	2.98	3.34	2.77	2.25	3.88	4.56	
27	3.29	4.34	4.38	2.60	4.17	3.88	1.65	3.30	3.02	2.68	4.21	3.75	
28	2.30	4.22	4.41	2.19	4.45	3.48	3.17	3.27	1.80	3.81	4.02	3.03	
29	3.88	4.39	4.35	1.59	4.49	2.56	4.49	3.28	1.72	3.86		2.78	
30	3.08	4.32	1.68	1.52	4.57	4.02	4.37	3.25	2.48	4.18		2.93	
31		4.19		1.79	2.50		3.83		1.65	4.33		3.47	
Mean	3.35	3.58	3.75	2.65	3.10	3.51	3.42	3.79	2.95	3.25	3.84	4.03	
Max	4.71	4.50	4.51	4.37	4.57	4.55	4.85	4.59	4.42	4.52	4.52	4.64	4.85
Min	1.73	1.71	1.57	1.52	1.62	1.79	1.65	1.72	1.65	1.58	2.68	1.93	1.52

Annual Max Momentary Gage Height 5.96 M (AD), at 6.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.45 M (AD)
Left Bank Elevation 6.89 M (AD)
Right Bank Elevation 7.11 M (AD), Drainage Area 11787 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	138.30	20.80	199.90	84.90	32.90	48.40	339.50	276.00	144.90	3.60	291.40	264.80	
2	311.00	118.50	135.00	263.40	83.10	241.50	168.80	186.90	153.20	146.00	250.80	17.80	
3	319.40	132.80	246.70	271.80	94.00	170.00	54.80	7.80	126.20	128.40	259.20	216.80	
4	294.20	167.60	291.40	270.40	26.20	264.80	11.50	121.80	129.50	127.30	269.00	298.40	
5	104.00	108.00	277.40	262.00	5.20	198.60	10.60	252.20	70.50	5.20	281.60	203.80	
6	59.60	7.40	269.00	84.90	41.30	199.90	133.90	292.80	8.20	68.70	292.80	291.40	
7	52.40	269.00	269.00	3.80	118.50	61.20	79.50	290.00	155.60	160.40	159.20	294.20	
8	109.00	156.80	210.30	37.80	181.70	56.40	64.40	302.60	7.40	86.70	73.20	224.60	
9	238.90	245.40	10.60	110.00	278.80	106.00	30.80	283.00	278.80	236.30	83.10	116.30	
10	299.80	114.10	3.40	88.50	274.60	137.20	64.40	242.80	46.00	238.90	83.10	135.00	
11	129.50	42.00	266.20	40.60	10.20	175.20	126.20	280.20	276.00	58.80	238.90	309.60	
12	25.60	37.80	271.80	14.50	4.60	160.40	143.80	292.80	220.70	4.90	260.60	291.40	
13	42.00	89.40	288.60	20.80	78.60	132.80	129.50	292.80	176.50	57.20	285.80	256.40	
14	8.20	227.20	252.20	7.80	161.60	103.00	94.00	299.80	198.60	236.30	285.80	294.20	
15	20.80	244.10	135.00	67.80	146.00	82.20	209.00	280.20	5.80	97.00	285.80	280.20	
16	119.60	277.40	10.60	101.00	249.40	172.60	257.80	236.30	119.60	168.80	232.40	271.80	
17	142.70	260.60	288.60	172.60	267.60	266.20	292.80	9.00	238.90	267.60	190.80	281.60	
18	149.60	277.40	260.60	98.00	23.80	297.00	287.20	92.10	124.00	121.80	198.60	262.00	
19	294.20	22.60	227.20	113.00	101.00	231.10	146.00	101.00	141.60	16.00	215.50	280.20	
20	277.40	125.10	104.00	61.20	141.60	180.40	109.00	210.30	127.30	79.50	108.00	288.60	
21	9.80	290.00	263.40	15.50	97.00	201.20	287.20	228.50	57.20	273.20	124.00	284.40	
22	125.10	216.80	271.80	42.80	193.40	10.60	291.40	203.80	105.00	241.50	139.40	308.20	
23	281.60	135.00	49.20	41.30	149.60	175.20	135.00	205.10	15.50	292.80	136.10	262.00	
24	131.70	259.20	140.50	96.00	27.40	193.40	306.80	152.00	112.00	176.50	143.80	218.10	
25	269.00	269.00	270.40	49.20	4.90	223.30	266.20	290.00	126.20	112.00	164.00	292.80	
26	193.40	138.30	288.60	39.90	51.60	291.40	101.00	139.40	81.30	38.50	206.40	298.40	
27	133.90	267.60	273.20	66.00	244.10	206.40	5.50	135.00	105.00	73.20	249.40	189.50	
28	42.00	250.80	277.40	34.30	283.00	155.60	120.70	131.70	11.00	197.30	224.60	106.00	
29	206.40	274.60	269.00	3.80	288.60	62.80	288.60	132.80	7.80	203.80		82.20	
30	111.00	264.80	6.40	2.40	299.80	224.60	271.80	129.50	56.40	245.40		96.00	
31		246.70		10.60	58.00		199.90		5.50	266.20		154.40	
Total	4640.10	5556.80	6127.40	2576.60	4018.10	5029.40	5027.60	6098.20	3432.20	4429.80	5733.30	7171.10	59840.60 CMSDAY
Mean	154.67	179.25	204.25	83.12	129.62	167.65	162.18	203.27	110.72	142.90	204.76	231.33	163.95 CMS
Max	319.40	290.00	291.40	271.80	299.80	297.00	339.50	302.60	278.80	292.80	292.80	309.60	339.50 CMS
Min	8.20	7.40	3.40	2.40	4.60	10.60	5.50	7.80	5.50	3.60	73.20	17.80	2.40 CMS
Runoff	400.905	480.108	529.407	222.618	347.164	434.540	434.385	526.884	296.542	382.735	495.357	619.583	5170.228 MCM

Momentary Peak 519.20 CMS, at 5.96 M (AD), at 6.00 Hours, on Oct 1, 1996

Runoff Yield 13.91 Liters/Second/Square KM, Momentary Peak Yield 44.049 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

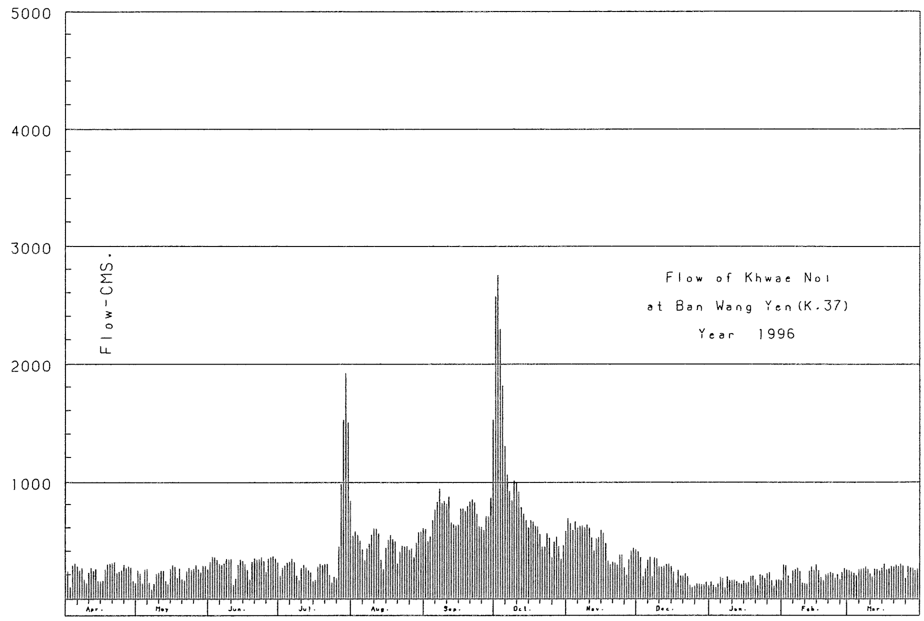
Khwae Noi River at Ban Wang Yen, Kanchanaburi (K.37)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +6.79 m.(A.D.) and is included.
General Description	Records fair. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 38 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.92	3.99	4.33	3.77	5.30	5.51	12.41	5.87	4.75	3.45	4.24	4.01	
2	3.17	3.84	4.58	4.08	5.43	5.11	12.95	5.70	4.51	3.25	4.18	3.92	
3	4.20	3.38	4.53	4.18	5.33	5.25	11.52	5.50	3.74	3.17	3.74	3.86	
4	4.26	3.99	4.45	4.33	5.11	5.83	9.89	5.79	4.05	3.33	3.39	3.79	
5	4.17	4.06	4.27	4.36	4.83	6.17	8.19	5.55	4.41	3.72	3.96	4.05	
6	3.96	3.38	4.19	4.46	4.42	6.44	7.36	5.64	4.57	3.63	4.02	4.03	
7	4.10	3.03	4.30	4.35	4.84	6.91	6.82	5.63	3.74	3.15	4.11	4.09	
8	3.60	3.32	4.46	3.74	5.02	6.42	6.51	5.59	4.51	3.74	3.97	4.13	
9	3.35	3.84	4.46	3.56	5.31	6.47	7.16	5.66	4.51	3.53	3.43	4.05	
10	3.87	3.86	4.45	4.06	5.52	6.40	7.13	5.58	4.13	3.58	3.39	3.87	
11	4.11	3.94	3.30	4.24	5.54	6.62	6.79	5.21	4.15	3.62	3.32	3.70	
12	3.97	3.97	3.62	4.10	5.35	5.73	6.28	4.77	4.15	3.50	3.98	4.06	
13	4.02	3.52	4.24	4.00	4.45	5.69	6.03	5.21	4.27	3.35	4.13	4.02	
14	3.52	3.29	4.43	3.88	4.01	5.61	5.81	5.23	4.25	3.35	4.01	3.98	
15	3.45	4.06	4.40	3.51	4.88	5.68	5.58	5.50	4.17	3.51	4.23	4.08	
16	3.50	4.19	4.23	3.54	5.16	6.23	5.83	5.38	3.91	3.41	3.98	4.25	
17	4.04	4.15	4.02	4.15	5.30	6.21	5.76	5.05	3.41	3.42	3.68	4.03	
18	4.22	3.67	3.61	4.24	5.16	6.15	5.64	4.41	3.99	3.75	3.56	4.04	
19	4.28	4.05	4.33	4.22	5.11	6.29	5.60	4.22	3.77	3.74	3.82	4.18	
20	4.30	3.59	4.49	4.24	4.26	6.47	5.36	4.36	3.74	3.56	3.84	4.12	
21	4.32	3.55	4.46	4.28	4.75	6.52	4.90	4.30	3.84	3.29	3.93	4.24	
22	3.88	3.95	4.48	3.80	4.94	6.44	4.93	4.21	3.75	3.83	3.85	4.15	
23	3.91	4.08	4.53	3.40	4.93	6.03	5.37	4.65	3.30	3.75	3.65	4.28	
24	3.99	4.02	4.39	3.69	4.92	5.62	5.23	4.63	3.13	3.67	3.84	4.18	
25	4.21	4.04	3.90	3.66	4.82	5.58	4.55	4.12	3.25	3.87	3.63	3.67	
26	4.07	4.20	4.47	4.90	4.84	5.49	5.07	3.80	3.35	3.89	3.89	4.18	
27	4.16	4.04	4.56	7.06	4.56	5.95	5.27	4.44	3.36	3.56	4.10	4.08	
28	4.08	3.88	4.56	8.93	5.06	5.96	4.92	4.79	3.29	3.20	4.00	4.10	
29	3.52	4.19	4.50	10.27	5.40	6.58	4.46	4.86	3.33	3.55		3.98	
30	3.35	4.15	4.30	8.87	5.44	8.93	4.98	4.80	3.44	3.60		4.08	
31		4.05		6.46	5.54		5.44		3.27	3.53		4.13	
Mean	3.92	3.85	4.29	4.72	5.02	6.14	6.57	5.02	3.87	3.53	3.85	4.04	
Max	4.32	4.20	4.58	10.27	5.54	8.93	12.95	5.87	4.75	3.89	4.24	4.28	12.95
Min	3.17	3.03	3.30	3.40	4.01	5.11	4.46	3.80	3.13	3.15	3.32	3.67	3.03

Annual Max Momentary Gage Height 13.12 M (AD), at 22.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.67 M (AD)
Left Bank Elevation 6.78 M (AD)
Right Bank Elevation 7.94 M (AD), Drainage Area 10603 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	234.0	248.0	316.0	204.0	545.0	597.5	2585.2	687.5	407.5	147.5	298.0	252.0		
2	105.5	218.0	366.0	266.0	577.5	497.5	2758.0	645.0	352.0	117.5	286.0	234.0		
3	290.0	137.0	356.0	286.0	552.5	532.5	2306.0	595.0	198.0	105.5	198.0	222.0		
4	302.0	248.0	340.0	316.0	497.5	677.5	1817.0	667.5	260.0	129.5	138.5	208.0		
5	284.0	262.0	304.0	322.0	427.5	762.5	1311.0	607.5	332.0	194.0	242.0	260.0		
6	242.0	137.0	288.0	342.0	334.0	830.0	1069.0	630.0	364.0	176.0	254.0	256.0		
7	270.0	84.5	310.0	320.0	430.0	947.5	925.0	627.5	198.0	102.5	272.0	268.0		
8	170.0	128.0	342.0	198.0	475.0	825.0	847.5	617.5	352.0	198.0	244.0	276.0		
9	132.5	218.0	342.0	164.0	547.5	837.5	1014.0	635.0	352.0	159.5	144.5	260.0		
10	224.0	222.0	340.0	262.0	600.0	820.0	1005.7	615.0	276.0	167.0	138.5	224.0		
11	272.0	238.0	125.0	298.0	605.0	875.0	917.5	522.5	280.0	174.0	128.0	190.0		
12	244.0	244.0	174.0	270.0	557.5	652.5	790.0	412.5	280.0	155.0	246.0	262.0		
13	254.0	158.0	298.0	250.0	340.0	642.5	727.5	522.5	304.0	132.5	276.0	254.0		
14	158.0	123.5	336.0	226.0	252.0	622.5	672.5	527.5	300.0	132.5	252.0	246.0		
15	147.5	262.0	330.0	156.5	440.0	640.0	615.0	595.0	284.0	156.5	296.0	266.0		
16	155.0	288.0	296.0	161.0	510.0	777.5	677.5	565.0	232.0	141.5	246.0	300.0		
17	258.0	280.0	254.0	280.0	545.0	772.5	660.0	482.5	141.5	143.0	186.0	256.0		
18	294.0	184.0	172.0	298.0	510.0	757.5	630.0	332.0	248.0	200.0	164.0	258.0		
19	306.0	260.0	316.0	294.0	497.5	792.5	620.0	294.0	204.0	198.0	214.0	286.0		
20	310.0	168.5	348.0	298.0	302.0	837.5	560.0	322.0	198.0	164.0	218.0	274.0		
21	314.0	162.5	342.0	306.0	407.5	850.0	445.0	310.0	218.0	123.5	236.0	298.0		
22	226.0	240.0	346.0	210.0	455.0	830.0	452.5	292.0	200.0	216.0	220.0	280.0		
23	232.0	266.0	356.0	140.0	452.5	727.5	562.5	382.5	125.0	200.0	180.0	306.0		
24	248.0	254.0	328.0	188.0	450.0	625.0	527.5	377.5	99.5	184.0	218.0	286.0		
25	292.0	258.0	230.0	182.0	425.0	615.0	360.0	274.0	117.5	224.0	176.0	184.0		
26	264.0	290.0	344.0	445.0	430.0	592.5	487.5	210.0	132.5	228.0	228.0	286.0		
27	282.0	258.0	362.0	986.5	362.0	707.5	537.5	338.0	134.0	164.0	270.0	266.0		
28	266.0	226.0	362.0	1529.4	485.0	710.0	450.0	417.5	123.5	110.0	250.0	270.0		
29	158.0	288.0	350.0	1931.0	570.0	865.0	342.0	435.0	129.5	162.5		246.0		
30	132.5	280.0	310.0	1511.7	580.0	1529.4	465.0	420.0	146.0	170.0		266.0		
31		260.0		835.0	605.0		580.0		120.5	159.5		276.0		
Total	7067.0	6891.0	9283.0	13476.1	14767.5	22749.4	27717.9	14359.5	7109.0	5035.5	6219.5	8016.0	142691.4	CMSDAY
Mean	235.6	222.3	309.4	434.7	476.4	758.3	894.1	478.6	229.3	162.4	222.1	258.6	390.9	CMS
Max	314.0	290.0	366.0	1931.0	605.0	1529.4	2758.0	687.5	407.5	228.0	298.0	306.0	2758.0	CMS
Min	105.5	84.5	125.0	140.0	252.0	497.5	342.0	210.0	99.5	102.5	128.0	184.0	84.5	CMS
Runoff	610.59	595.38	802.05	1164.34	1275.91	1965.55	2394.83	1240.66	614.22	435.07	537.36	692.58	12328.54	MCM

Momentary Peak 2812.40 CMS, at 13.12 M (AD), at 22.00 Hours, on Oct 1, 1996

Runoff Yield 36.87 Liters/Second/Square KM, Momentary Peak Yield 265.246 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Lin Thin, Kanchanaburi (K.38)

Location Lat. 14°-33′-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 - 1990, 1996 to date.

Rated by Float -

Rated by Current Meter 1984 - 1990, 1996 to date.

Stability of Channel Regimes Fairly stable by some silting.

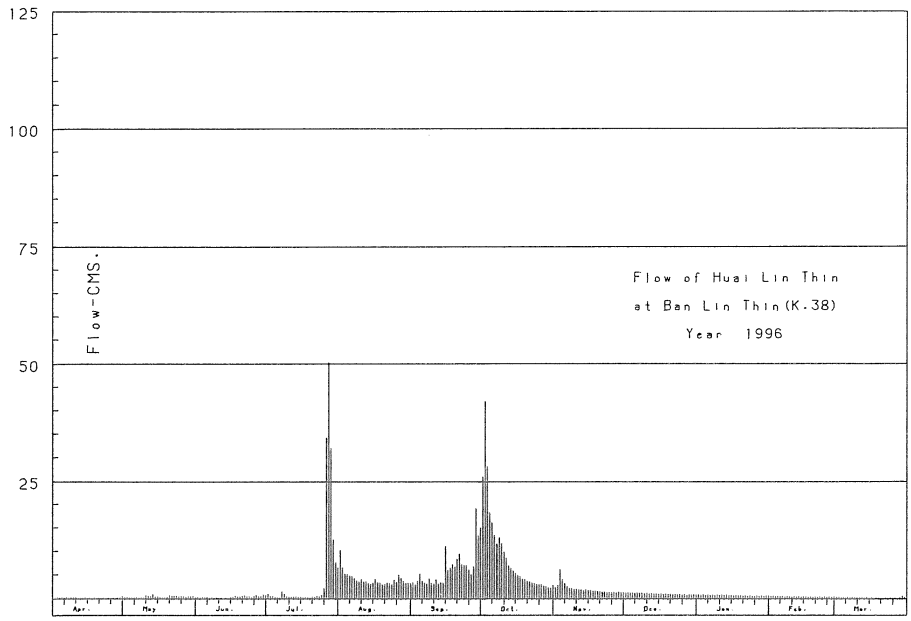
Overbank Flow Conditions Overbank flow starts at elevation +2.63 m.(A.D.) and is included.

General Description Records fair. Stage-discharge relation defined by 64 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.46	0.43	0.62	1.71	1.05	2.38	1.06	0.84	0.75	0.69	0.63	
2	0.42	0.44	0.43	0.52	1.42	1.00	2.85	1.12	0.84	0.75	0.68	0.62	
3	0.42	0.44	0.43	0.48	1.29	1.09	2.45	1.46	0.84	0.75	0.68	0.62	
4	0.42	0.42	0.45	0.46	1.27	1.28	2.09	1.28	0.84	0.74	0.68	0.62	
5	0.42	0.42	0.45	0.45	1.24	1.10	2.00	1.20	0.83	0.74	0.67	0.62	
6	0.42	0.42	0.42	0.43	1.22	1.04	1.88	1.08	0.83	0.74	0.66	0.62	
7	0.42	0.42	0.41	0.72	1.18	1.02	1.79	1.04	0.83	0.74	0.66	0.62	
8	0.42	0.42	0.41	0.63	1.10	1.17	1.86	1.01	0.82	0.74	0.66	0.61	
9	0.42	0.42	0.40	0.50	1.08	1.03	1.79	1.00	0.82	0.74	0.66	0.61	
10	0.42	0.55	0.39	0.48	1.14	1.02	1.69	0.99	0.82	0.74	0.65	0.61	
11	0.41	0.53	0.39	0.45	1.08	1.13	1.59	0.98	0.80	0.74	0.65	0.61	
12	0.41	0.50	0.39	0.48	1.08	1.02	1.51	0.96	0.80	0.74	0.65	0.61	
13	0.41	0.59	0.39	0.46	1.04	1.04	1.47	0.94	0.80	0.73	0.64	0.61	
14	0.41	0.47	0.39	0.46	1.00	1.04	1.44	0.97	0.80	0.73	0.64	0.61	
15	0.40	0.46	0.44	0.45	1.05	1.76	1.40	0.96	0.79	0.73	0.64	0.59	
16	0.40	0.42	0.47	0.45	1.14	1.36	1.37	0.94	0.79	0.72	0.64	0.59	
17	0.40	0.41	0.51	0.42	1.06	1.42	1.34	0.93	0.78	0.72	0.64	0.59	
18	0.40	0.40	0.49	0.45	1.04	1.48	1.30	0.92	0.78	0.72	0.64	0.58	
19	0.40	0.45	0.46	0.43	1.00	1.44	1.28	0.91	0.78	0.71	0.64	0.58	
20	0.40	0.54	0.53	0.45	0.99	1.57	1.25	0.90	0.77	0.70	0.64	0.58	
21	0.40	0.54	0.54	0.48	1.05	1.66	1.23	0.89	0.77	0.70	0.64	0.58	
22	0.40	0.53	0.49	0.49	1.03	1.48	1.21	0.87	0.77	0.70	0.64	0.58	
23	0.39	0.50	0.48	0.50	1.00	1.47	1.19	0.86	0.77	0.70	0.64	0.57	
24	0.39	0.48	0.45	0.55	1.12	1.46	1.17	0.86	0.76	0.69	0.64	0.57	
25	0.39	0.48	0.51	0.86	1.07	1.38	1.15	0.86	0.76	0.69	0.64	0.57	
26	0.39	0.48	0.55	2.64	1.25	1.27	1.15	0.86	0.76	0.69	0.63	0.57	
27	0.39	0.46	0.51	3.05	1.18	1.44	1.11	0.86	0.75	0.69	0.63	0.57	
28	0.39	0.46	0.47	2.57	1.08	2.13	1.08	0.86	0.75	0.69	0.63	0.59	
29	0.43	0.50	0.61	1.83	1.04	1.87	1.05	0.86	0.75	0.69		0.70	
30	0.48	0.48	0.54	1.52	1.03	1.95	1.03	0.85	0.75	0.69		0.60	
31		0.45		1.41	1.03		1.12		0.75	0.69		0.78	
Mean	0.41	0.47	0.46	0.83	1.13	1.34	1.52	0.98	0.79	0.72	0.65	0.61	
Max	0.48	0.59	0.61	3.05	1.71	2.13	2.85	1.46	0.84	0.75	0.69	0.78	3.05
Min	0.39	0.40	0.39	0.42	0.99	1.00	1.03	0.85	0.75	0.69	0.63	0.57	0.39

Annual Max Momentary Gage Height 3.82 M (AD), at 18.00 Hours, on Jul 27, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.30 M (AD)
Left Bank Elevation 3.72 M (AD)
Right Bank Elevation 2.62 M (AD), Drainage Area 144 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.51	0.41	1.10	10.47	3.52	26.10	2.56	1.38	0.98	0.72	0.50	
2	0.37	0.44	0.41	0.72	6.72	3.15	42.20	2.93	1.38	0.98	0.68	0.47	
3	0.37	0.44	0.41	0.58	5.46	3.83	28.25	6.40	1.38	0.98	0.68	0.47	
4	0.37	0.37	0.47	0.51	5.28	5.37	18.37	4.21	1.38	0.93	0.68	0.47	
5	0.37	0.37	0.47	0.47	5.01	3.90	16.30	3.45	1.34	0.93	0.65	0.47	
6	0.37	0.37	0.37	0.41	4.83	3.45	13.60	2.68	1.34	0.93	0.61	0.47	
7	0.37	0.37	0.33	1.60	4.50	3.30	11.83	2.44	1.34	0.93	0.61	0.47	
8	0.37	0.37	0.33	1.15	3.90	4.42	13.20	2.26	1.29	0.93	0.61	0.43	
9	0.37	0.37	0.30	0.65	3.75	3.37	11.83	2.20	1.29	0.93	0.61	0.43	
10	0.37	0.83	0.27	0.58	4.20	3.30	10.16	2.15	1.29	0.93	0.57	0.43	
11	0.33	0.75	0.27	0.47	3.75	4.13	8.73	2.09	1.20	0.93	0.57	0.43	
12	0.33	0.65	0.27	0.58	3.75	3.30	7.19	1.98	1.20	0.93	0.57	0.43	
13	0.33	0.96	0.27	0.51	3.45	3.45	6.55	1.87	1.20	0.89	0.54	0.43	
14	0.33	0.54	0.27	0.51	3.15	3.45	6.10	2.04	1.20	0.89	0.54	0.43	
15	0.30	0.51	0.44	0.47	3.52	11.32	5.50	1.98	1.16	0.89	0.54	0.37	
16	0.30	0.37	0.54	0.47	4.20	6.12	5.17	1.87	1.16	0.84	0.54	0.37	
17	0.30	0.33	0.68	0.37	3.60	6.72	4.84	1.82	1.11	0.84	0.54	0.37	
18	0.30	0.30	0.62	0.47	3.45	7.38	4.40	1.76	1.11	0.84	0.54	0.34	
19	0.30	0.47	0.51	0.41	3.15	6.94	4.21	1.71	1.11	0.79	0.54	0.34	
20	0.30	0.79	0.75	0.47	3.09	8.48	3.93	1.65	1.06	0.75	0.54	0.34	
21	0.30	0.79	0.79	0.58	3.52	9.72	3.74	1.61	1.06	0.75	0.54	0.34	
22	0.30	0.75	0.62	0.62	3.37	7.38	3.55	1.52	1.06	0.75	0.54	0.34	
23	0.27	0.65	0.58	0.65	3.15	7.27	3.39	1.47	1.06	0.75	0.54	0.31	
24	0.27	0.58	0.47	0.83	4.05	7.16	3.25	1.47	1.02	0.72	0.54	0.31	
25	0.27	0.58	0.68	2.33	3.68	6.31	3.12	1.47	1.02	0.72	0.54	0.31	
26	0.27	0.58	0.83	34.40	5.10	5.28	3.12	1.47	1.02	0.72	0.50	0.31	
27	0.27	0.51	0.68	50.45	4.50	6.94	2.86	1.47	0.98	0.72	0.50	0.31	
28	0.27	0.51	0.54	32.04	3.75	19.32	2.68	1.47	0.98	0.72	0.50	0.37	
29	0.41	0.65	1.05	12.60	3.45	13.40	2.50	1.47	0.98	0.72		0.75	
30	0.58	0.58	0.79	7.85	3.37	15.15	2.38	1.43	0.98	0.72		0.40	
31		0.47		6.61	3.37		2.93		0.98	0.72		1.11	
Total	10.03	16.76	15.42	161.46	130.54	196.83	281.98	64.90	36.06	26.05	16.08	13.32	969.43 CMSDAY
Mean	0.33	0.54	0.51	5.21	4.21	6.56	9.10	2.16	1.16	0.84	0.57	0.43	2.66 CMS
Max	0.58	0.96	1.05	50.45	10.47	19.32	42.20	6.40	1.38	0.98	0.72	1.11	50.45 CMS
Min	0.27	0.30	0.27	0.37	3.09	3.15	2.38	1.43	0.98	0.72	0.50	0.31	0.27 CMS
Runoff	0.867	1.448	1.332	13.950	11.279	17.006	24.363	5.607	3.116	2.251	1.389	1.151	83.759 MCM

Momentary Peak 87.64 CMS, at 3.82 M (AD), at 18.00 Hours, on Jul 27, 1996

Runoff Yield 18.44 Liters/Second/Square KM, Momentary Peak Yield 608.611 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

Huai Bong Thi at Ban Bong Thi, Kanchanaburi (K.39)

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: +3.414 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 - 1990, 1996 to date.

Rated by Float: -

Rated by Current Meter: 1985 - 1990, 1996 to date.

Stability of Channel Regimes: Stable.

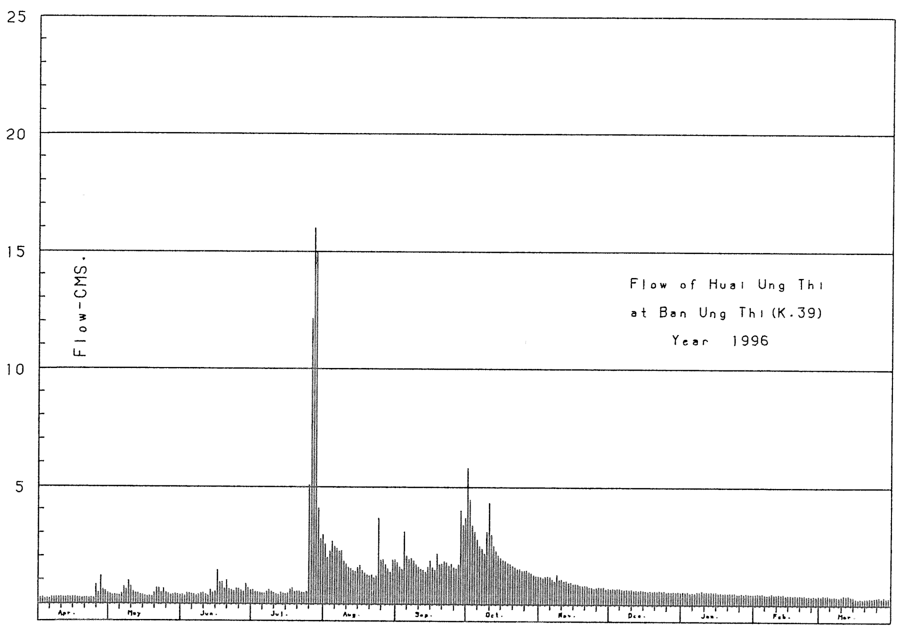
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 30 discharge measurements made in 1996.

Gage Height in Meter (AD.), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.33	0.32	0.38	0.66	0.57	0.95	0.48	0.40	0.36	0.34	0.31	
2	0.28	0.31	0.31	0.36	0.60	0.54	0.84	0.47	0.40	0.36	0.34	0.32	
3	0.27	0.32	0.34	0.35	0.63	0.53	0.74	0.48	0.40	0.36	0.34	0.32	
4	0.27	0.31	0.34	0.35	0.67	0.71	0.71	0.48	0.40	0.35	0.34	0.32	
5	0.27	0.31	0.33	0.34	0.65	0.61	0.68	0.48	0.40	0.35	0.33	0.31	
6	0.29	0.33	0.32	0.33	0.64	0.59	0.65	0.46	0.39	0.35	0.32	0.30	
7	0.29	0.41	0.31	0.36	0.63	0.60	0.64	0.45	0.39	0.36	0.33	0.31	
8	0.29	0.38	0.32	0.38	0.63	0.58	0.62	0.49	0.39	0.36	0.34	0.30	
9	0.29	0.45	0.34	0.36	0.58	0.56	0.71	0.46	0.39	0.37	0.33	0.30	
10	0.29	0.41	0.34	0.34	0.56	0.54	0.83	0.46	0.39	0.36	0.33	0.31	
11	0.29	0.36	0.32	0.33	0.54	0.53	0.70	0.45	0.38	0.36	0.33	0.32	
12	0.29	0.34	0.31	0.32	0.53	0.52	0.65	0.45	0.38	0.36	0.33	0.32	
13	0.29	0.33	0.38	0.35	0.52	0.51	0.63	0.44	0.38	0.36	0.33	0.32	
14	0.29	0.32	0.34	0.34	0.51	0.54	0.61	0.44	0.38	0.36	0.32	0.31	
15	0.29	0.31	0.36	0.33	0.54	0.58	0.60	0.43	0.38	0.36	0.32	0.30	
16	0.29	0.30	0.52	0.33	0.55	0.54	0.59	0.43	0.37	0.35	0.32	0.28	
17	0.29	0.30	0.44	0.39	0.52	0.52	0.58	0.43	0.37	0.35	0.32	0.28	
18	0.28	0.30	0.44	0.40	0.50	0.62	0.57	0.42	0.37	0.35	0.32	0.28	
19	0.28	0.30	0.40	0.36	0.49	0.56	0.56	0.42	0.37	0.35	0.32	0.28	
20	0.28	0.34	0.45	0.36	0.48	0.56	0.55	0.42	0.37	0.35	0.32	0.28	
21	0.28	0.40	0.39	0.36	0.49	0.58	0.54	0.42	0.37	0.35	0.32	0.29	
22	0.28	0.40	0.38	0.35	0.47	0.57	0.53	0.41	0.37	0.35	0.32	0.29	
23	0.28	0.35	0.36	0.34	0.48	0.55	0.53	0.41	0.37	0.35	0.31	0.29	
24	0.28	0.39	0.40	0.36	0.77	0.56	0.52	0.40	0.37	0.34	0.31	0.29	
25	0.42	0.35	0.39	0.89	0.59	0.54	0.52	0.41	0.36	0.34	0.31	0.30	
26	0.34	0.33	0.37	1.41	0.59	0.53	0.52	0.41	0.36	0.34	0.31	0.30	
27	0.48	0.32	0.36	1.64	0.56	0.56	0.51	0.41	0.36	0.34	0.31	0.29	
28	0.38	0.32	0.43	1.58	0.53	0.80	0.50	0.41	0.36	0.34	0.31	0.30	
29	0.36	0.33	0.40	0.81	0.51	0.74	0.49	0.40	0.36	0.34		0.29	
30	0.34	0.32	0.38	0.68	0.59	0.77	0.48	0.40	0.36	0.33		0.29	
31		0.32		0.70	0.59		0.48		0.36	0.33		0.30	
Mean	0.30	0.34	0.37	0.52	0.57	0.58	0.61	0.44	0.38	0.35	0.32	0.30	
Max	0.48	0.45	0.52	1.64	0.77	0.80	0.95	0.49	0.40	0.37	0.34	0.32	1.64
Min	0.27	0.30	0.31	0.32	0.47	0.51	0.48	0.40	0.36	0.33	0.31	0.28	0.27

Annual Max Momentary Gage Height 1.96 M (AD.), at 7.00 Hours, on Jul 28, 1996
Zero Gage at Bottom Elevation 0.00 M (AD.), River Bed 0.08 M (AD.)
Left Bank Elevation 3.68 M (AD.)
Right Bank Elevation 2.88 M (AD.), Drainage Area 54 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.46	0.42	0.63	2.60	1.80	5.80	1.22	0.70	0.56	0.49	0.39	
2	0.28	0.39	0.39	0.56	2.00	1.61	4.48	1.15	0.70	0.56	0.49	0.42	
3	0.25	0.42	0.49	0.52	2.30	1.54	3.40	1.22	0.70	0.56	0.49	0.42	
4	0.25	0.39	0.49	0.52	2.70	3.10	3.10	1.22	0.70	0.52	0.49	0.42	
5	0.25	0.39	0.46	0.49	2.50	2.10	2.80	1.22	0.70	0.52	0.46	0.39	
6	0.31	0.46	0.42	0.46	2.40	1.93	2.50	1.09	0.66	0.52	0.42	0.35	
7	0.31	0.76	0.39	0.56	2.30	2.00	2.40	1.02	0.66	0.56	0.46	0.39	
8	0.31	0.63	0.42	0.63	2.30	1.87	2.20	1.29	0.66	0.56	0.49	0.35	
9	0.31	1.02	0.49	0.56	1.87	1.74	3.10	1.09	0.66	0.60	0.46	0.35	
10	0.31	0.76	0.49	0.49	1.74	1.61	4.36	1.09	0.66	0.56	0.46	0.39	
11	0.31	0.56	0.42	0.46	1.61	1.54	3.00	1.02	0.63	0.56	0.46	0.42	
12	0.31	0.49	0.39	0.42	1.54	1.48	2.50	1.02	0.63	0.56	0.46	0.42	
13	0.31	0.46	0.63	0.52	1.48	1.41	2.30	0.96	0.63	0.56	0.46	0.42	
14	0.31	0.42	0.49	0.49	1.41	1.61	2.10	0.96	0.63	0.56	0.42	0.39	
15	0.31	0.39	0.56	0.46	1.61	1.87	2.00	0.90	0.63	0.56	0.42	0.35	
16	0.31	0.35	1.48	0.46	1.68	1.61	1.93	0.90	0.60	0.52	0.42	0.28	
17	0.31	0.35	0.96	0.66	1.48	1.48	1.87	0.90	0.60	0.52	0.42	0.28	
18	0.28	0.35	0.96	0.70	1.35	2.20	1.80	0.83	0.60	0.52	0.42	0.28	
19	0.28	0.35	0.70	0.56	1.29	1.74	1.74	0.83	0.60	0.52	0.42	0.28	
20	0.28	0.49	1.02	0.56	1.22	1.74	1.68	0.83	0.60	0.52	0.42	0.28	
21	0.28	0.70	0.66	0.56	1.29	1.87	1.61	0.83	0.60	0.52	0.42	0.31	
22	0.28	0.70	0.63	0.52	1.15	1.80	1.54	0.76	0.60	0.52	0.42	0.31	
23	0.28	0.52	0.56	0.49	1.22	1.68	1.54	0.76	0.60	0.52	0.39	0.31	
24	0.28	0.66	0.70	0.56	3.70	1.74	1.48	0.70	0.60	0.49	0.39	0.31	
25	0.83	0.52	0.66	5.08	1.93	1.61	1.48	0.76	0.56	0.49	0.39	0.35	
26	0.49	0.46	0.60	12.17	1.93	1.54	1.48	0.76	0.56	0.49	0.39	0.35	
27	1.22	0.42	0.56	16.04	1.74	1.74	1.41	0.76	0.56	0.49	0.39	0.31	
28	0.63	0.42	0.90	14.97	1.54	4.00	1.35	0.76	0.56	0.49	0.39	0.35	
29	0.56	0.46	0.70	4.12	1.41	3.40	1.29	0.70	0.56	0.49		0.31	
30	0.49	0.42	0.63	2.80	1.93	3.70	1.22	0.70	0.56	0.46		0.31	
31		0.42		3.00	1.93		1.22		0.56	0.46		0.35	
Total	11.21	15.59	18.67	71.02	57.15	59.06	70.68	28.25	19.27	16.34	12.21	10.84	390.29 CMSDAY
Mean	0.37	0.50	0.62	2.29	1.84	1.97	2.28	0.94	0.62	0.53	0.44	0.35	1.07 CMS
Max	1.22	1.02	1.48	16.04	3.70	4.00	5.80	1.29	0.70	0.60	0.49	0.42	16.04 CMS
Min	0.25	0.35	0.39	0.42	1.15	1.41	1.22	0.70	0.56	0.46	0.39	0.28	0.25 CMS
Runoff	0.969	1.347	1.613	6.136	4.938	5.103	6.107	2.441	1.665	1.412	1.055	0.937	33.721 MCM

Momentary Peak 22.20 CMS, at 1.96 M (AD.), at 7.00 Hours, on Jul 28, 1996
Runoff Yield 19.80 Liters/Second/Square KM, Momentary Peak Yield 411.111 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

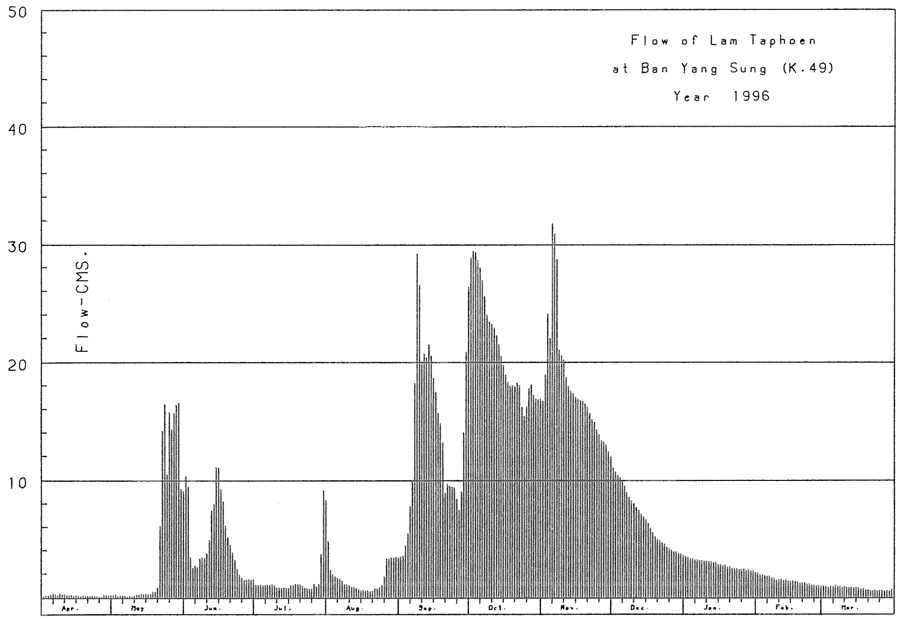
Lam Taphoen at Ban Yang Sung, Kanchanaburi (K.49)

Location	Lat. 14°-29'-15" N., Long. 99°-28'-24" E., on right bank at the bridge on road, Ban Yang Sung, Amphoe Bo Phloi, Kanchanaburi.
Drainage Area	1,372 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	+7.835 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	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 5.14 m.(A.D.) and is included.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	1.84	3.79	2.18	2.96	2.71	5.70	4.50	3.88	2.72	2.42	2.15	
2	1.80	1.84	3.67	2.18	2.49	2.73	5.77	4.74	3.83	2.69	2.40	2.13	
3	1.83	1.80	2.70	2.18	2.40	2.89	5.76	5.23	3.80	2.68	2.39	2.12	
4	1.85	1.80	2.52	2.18	2.37	3.09	5.67	5.04	3.77	2.67	2.38	2.13	
5	1.90	1.80	2.56	2.18	2.33	3.44	5.59	6.08	3.74	2.66	2.37	2.14	
6	1.86	1.80	2.52	2.18	2.31	3.72	5.49	5.96	3.68	2.65	2.36	2.16	
7	1.84	1.78	2.68	2.18	2.28	4.67	5.37	5.68	3.60	2.65	2.34	2.14	
8	1.89	1.78	2.69	2.20	2.20	5.74	5.22	4.94	3.55	2.64	2.32	2.13	
9	1.87	1.78	2.69	2.18	2.18	5.46	5.17	4.90	3.50	2.64	2.29	2.12	
10	1.86	1.78	2.76	2.10	2.16	4.85	5.15	4.86	3.47	2.63	2.29	2.12	
11	1.85	1.86	2.98	2.10	2.14	4.91	5.12	4.71	3.42	2.63	2.29	2.12	
12	1.84	1.86	3.38	2.10	2.11	4.88	5.06	4.64	3.39	2.62	2.28	2.11	
13	1.83	1.87	3.47	2.10	2.09	4.99	4.99	4.59	3.34	2.61	2.28	2.10	
14	1.82	1.87	3.88	2.10	2.05	4.90	4.89	4.57	3.31	2.61	2.27	2.10	
15	1.81	1.88	3.88	2.10	2.03	4.71	4.82	4.54	3.27	2.58	2.27	2.10	
16	1.80	1.86	3.64	2.16	2.03	4.59	4.74	4.52	3.23	2.57	2.26	2.09	
17	1.80	1.88	3.50	2.18	2.02	4.40	4.67	4.51	3.16	2.56	2.26	2.07	
18	1.80	1.98	3.20	2.20	2.01	4.30	4.64	4.50	3.09	2.56	2.24	2.06	
19	1.80	1.99	3.02	2.20	2.00	4.13	4.64	4.48	3.03	2.54	2.23	2.04	
20	1.80	2.09	2.90	2.19	2.00	3.60	4.63	4.45	2.98	2.53	2.22	2.02	
21	1.80	3.19	2.78	2.15	2.07	3.70	4.67	4.39	2.96	2.51	2.22	2.02	
22	1.80	4.24	2.66	2.10	2.08	3.68	4.64	4.34	2.94	2.51	2.21	2.02	
23	1.79	4.48	2.50	2.07	2.11	3.66	4.45	4.31	2.91	2.50	2.20	2.02	
24	1.78	3.81	2.40	2.07	2.18	3.66	4.37	4.25	2.87	2.50	2.18	2.01	
25	1.76	4.40	2.33	2.06	2.37	3.53	4.45	4.20	2.84	2.49	2.17	2.01	
26	1.74	4.25	2.30	2.20	2.67	3.39	4.61	4.15	2.82	2.49	2.16	2.01	
27	1.85	4.40	2.30	2.14	2.68	3.61	4.65	4.14	2.80	2.48	2.15	2.01	
28	1.82	4.47	2.30	2.21	2.69	4.22	4.56	4.11	2.79	2.48	2.15	2.01	
29	1.82	4.49	2.30	2.75	2.69	4.93	4.52	4.04	2.77	2.47		2.01	
30	1.82	3.64	2.30	3.63	2.70	5.44	4.52	3.99	2.75	2.46		2.04	
31		3.62		3.51	2.70		4.52		2.73	2.44		2.08	
Mean	1.82	2.65	2.89	2.26	2.29	4.15	4.94	4.65	3.23	2.57	2.27	2.08	
Max	1.90	4.49	3.88	3.63	2.96	5.74	5.77	6.08	3.88	2.72	2.42	2.16	6.08
Min	1.74	1.78	2.30	2.06	2.00	2.71	4.37	3.99	2.73	2.44	2.15	2.01	1.74

Annual Max Momentary Gage Height 6.09 M (A.D), at 18.00 Hours, on Sep 8, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 1.70 M (A.D)
Left Bank Elevation 5.13 M (A.D)
Right Bank Elevation 5.19 M (A.D), Drainage Area 1372 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.28	10.43	1.14	4.88	3.55	28.96	16.75	11.14	3.60	2.10	1.05	
2	0.20	0.28	9.53	1.14	2.45	3.65	29.49	19.03	10.74	3.45	2.00	0.99	
3	0.26	0.20	3.50	1.14	2.00	4.50	29.42	24.13	10.50	3.40	1.96	0.96	
4	0.30	0.20	2.60	1.14	1.88	5.59	28.73	22.12	10.28	3.35	1.92	0.99	
5	0.40	0.20	2.80	1.14	1.72	7.88	28.09	31.85	10.05	3.30	1.88	1.02	
6	0.32	0.20	2.60	1.14	1.64	9.90	26.99	30.94	9.60	3.25	1.84	1.08	
7	0.28	0.16	3.40	1.14	1.52	18.36	25.67	28.81	9.00	3.25	1.76	1.02	
8	0.38	0.16	3.45	1.20	1.20	29.26	24.02	21.07	8.65	3.20	1.68	0.99	
9	0.34	0.16	3.45	1.14	1.14	26.66	23.49	20.65	8.30	3.20	1.56	0.96	
10	0.32	0.16	3.80	0.90	1.08	20.12	23.28	20.23	8.09	3.15	1.56	0.96	
11	0.30	0.32	4.99	0.90	1.02	20.75	22.96	18.74	7.74	3.15	1.56	0.96	
12	0.28	0.32	7.46	0.90	0.93	20.44	22.33	18.08	7.53	3.10	1.52	0.93	
13	0.26	0.34	8.09	0.90	0.87	21.59	21.59	17.61	7.18	3.05	1.52	0.90	
14	0.24	0.34	11.14	0.90	0.75	20.65	20.54	17.42	6.97	3.05	1.48	0.90	
15	0.22	0.36	11.14	0.90	0.69	18.74	19.81	17.13	6.69	2.90	1.48	0.90	
16	0.20	0.32	9.30	1.08	0.69	17.61	19.03	16.94	6.41	2.85	1.44	0.87	
17	0.20	0.36	8.30	1.14	0.66	15.80	18.36	16.85	5.98	2.80	1.44	0.81	
18	0.20	0.56	6.20	1.20	0.63	14.85	18.08	16.75	5.59	2.80	1.36	0.78	
19	0.20	0.58	5.21	1.20	0.60	13.27	18.08	16.56	5.26	2.70	1.32	0.72	
20	0.20	0.87	4.55	1.17	0.60	9.00	17.98	16.27	4.99	2.65	1.28	0.66	
21	0.20	6.15	3.90	1.05	0.81	9.75	18.36	15.70	4.88	2.55	1.28	0.66	
22	0.20	14.28	3.30	0.90	0.84	9.60	18.08	15.23	4.77	2.55	1.24	0.66	
23	0.18	16.56	2.50	0.81	0.93	9.45	16.27	14.95	4.61	2.50	1.20	0.66	
24	0.16	10.58	2.00	0.81	1.14	9.45	15.51	14.38	4.38	2.50	1.14	0.63	
25	0.12	15.80	1.72	0.78	1.88	8.51	16.27	13.90	4.22	2.45	1.11	0.63	
26	0.08	14.38	1.60	1.20	3.35	7.53	17.79	13.45	4.11	2.45	1.08	0.63	
27	0.30	15.80	1.60	1.02	3.40	9.07	18.18	13.36	4.00	2.40	1.05	0.63	
28	0.24	16.46	1.60	1.24	3.45	14.09	17.32	13.09	3.95	2.40	1.05	0.63	
29	0.24	16.65	1.60	3.75	3.45	20.96	16.94	12.46	3.85	2.35		0.63	
30	0.24	9.30	1.60	9.23	3.50	26.44	16.94	12.02	3.75	2.30		0.72	
31		9.15		8.37	3.50		16.94		3.65	2.20		0.84	
Total	7.26	151.48	143.36	50.67	53.20	427.02	655.50	546.47	206.86	88.85	41.81	25.77	2398.25 CMSDAY
Mean	0.24	4.89	4.78	1.63	1.72	14.23	21.15	18.22	6.67	2.87	1.49	0.83	6.57 CMS
Max	0.40	16.65	11.14	9.23	4.88	29.26	29.49	31.85	11.14	3.60	2.10	1.08	31.85 CMS
Min	0.08	0.16	1.60	0.78	0.60	3.55	15.51	12.02	3.65	2.20	1.05	0.63	0.08 CMS
Runoff	0.627	13.088	12.386	4.378	4.596	36.895	56.635	47.215	17.873	7.677	3.612	2.227	207.209 MCM

Momentary Peak 31.92 CMS, at 6.09 M (A.D), at 18.00 Hours, on Sep 8, 1996

Runoff Yield 4.79 Liters/Second/Square KM, Momentary Peak Yield 23.265 Liters/Second/Square KM

WATER YEAR 1996

MAE KLONG RIVER BASIN

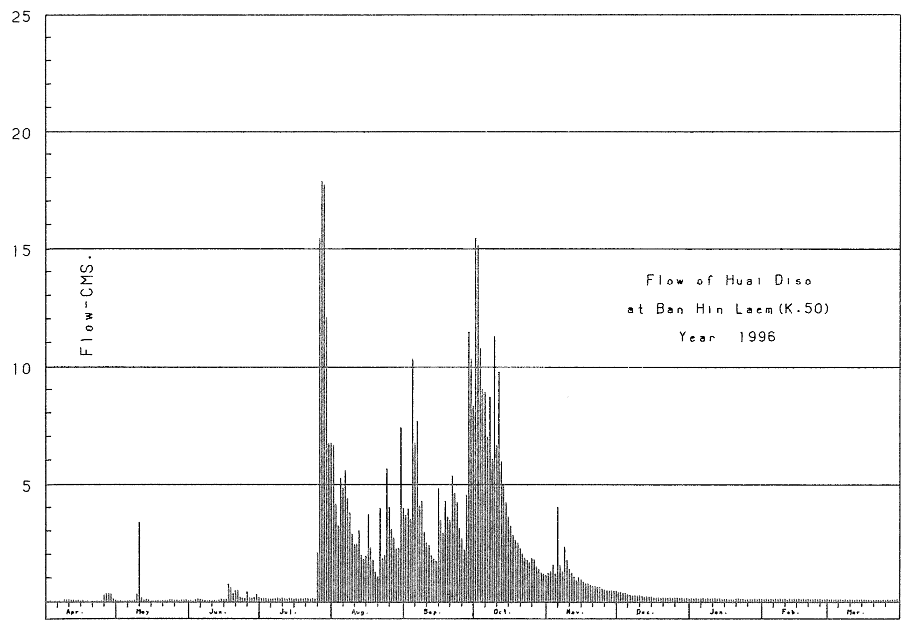
Huai Diso at Ban Hin Laem, Kanchanaburi (K.50)

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, 1996 to date.
Rated by Float	-
Rated by Current Meter	1987, 1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 48 discharge measurements made in 1996.

Gage Height in Meter (AD.), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.36	0.37	0.52	2.01	1.60	2.79	1.04	0.71	0.53	0.46	0.43	
2	0.34	0.34	0.36	0.54	1.68	1.65	2.77	1.07	0.71	0.53	0.46	0.42	
3	0.33	0.34	0.40	0.52	1.52	1.57	2.43	1.15	0.70	0.53	0.45	0.42	
4	0.33	0.33	0.52	0.50	1.84	2.39	2.27	1.03	0.69	0.53	0.45	0.42	
5	0.33	0.33	0.43	0.48	1.78	2.02	2.26	1.66	0.67	0.53	0.45	0.42	
6	0.32	0.34	0.38	0.47	1.88	2.13	2.05	1.14	0.65	0.52	0.45	0.42	
7	0.32	0.36	0.36	0.53	1.72	1.67	2.24	1.07	0.64	0.51	0.45	0.42	
8	0.46	0.37	0.35	0.54	1.62	1.70	1.94	1.33	0.64	0.50	0.45	0.41	
9	0.41	0.68	0.35	0.53	1.45	1.47	2.47	1.20	0.64	0.50	0.45	0.41	
10	0.41	1.55	0.35	0.54	1.36	1.37	2.01	1.10	0.64	0.50	0.45	0.41	
11	0.40	0.55	0.35	0.50	1.36	1.35	2.34	1.05	0.64	0.50	0.45	0.42	
12	0.40	0.40	0.36	0.50	1.48	1.25	1.93	0.99	0.62	0.50	0.45	0.42	
13	0.38	0.49	0.38	0.54	1.25	1.21	1.80	0.93	0.62	0.50	0.46	0.42	
14	0.37	0.39	0.47	0.54	1.21	1.19	1.69	0.98	0.62	0.47	0.46	0.42	
15	0.36	0.35	0.41	0.50	1.24	1.78	1.59	0.95	0.61	0.46	0.45	0.41	
16	0.35	0.33	0.49	0.49	1.61	1.56	1.52	0.90	0.60	0.44	0.45	0.41	
17	0.34	0.37	0.87	0.49	1.33	1.46	1.44	0.88	0.59	0.43	0.46	0.41	
18	0.33	0.36	0.80	0.50	1.20	1.70	1.40	0.87	0.58	0.42	0.46	0.39	
19	0.32	0.36	0.69	0.51	1.06	1.59	1.37	0.85	0.57	0.42	0.46	0.39	
20	0.31	0.36	0.74	0.52	1.00	1.56	1.32	0.83	0.56	0.49	0.46	0.39	
21	0.32	0.38	0.75	0.50	1.65	1.85	1.27	0.83	0.55	0.50	0.46	0.40	
22	0.33	0.38	0.61	0.51	1.22	1.75	1.22	0.82	0.55	0.48	0.46	0.40	
23	0.32	0.44	0.53	0.52	1.25	1.69	1.20	0.81	0.55	0.44	0.46	0.40	
24	0.32	0.40	0.54	0.51	1.89	1.50	1.17	0.79	0.55	0.41	0.45	0.39	
25	0.66	0.40	0.73	1.28	1.66	1.41	1.22	0.76	0.55	0.41	0.45	0.40	
26	0.68	0.39	0.60	2.79	1.49	1.31	1.20	0.75	0.55	0.47	0.43	0.41	
27	0.69	0.37	0.55	2.95	1.42	1.74	1.13	0.75	0.54	0.46	0.42	0.41	
28	0.67	0.38	0.58	2.94	1.32	2.49	1.10	0.74	0.54	0.46	0.43	0.40	
29	0.51	0.42	0.67	2.54	1.32	2.39	1.05	0.74	0.53	0.46		0.42	
30	0.35	0.40	0.59	2.02	2.10	2.20	1.03	0.73	0.53	0.47		0.42	
31		0.39		2.02	1.65		1.02		0.53	0.47		0.40	
Mean	0.40	0.43	0.52	0.93	1.50	1.69	1.69	0.96	0.60	0.48	0.45	0.41	
Max	0.69	1.55	0.87	2.95	2.10	2.49	2.79	1.66	0.71	0.53	0.46	0.43	2.95
Min	0.31	0.33	0.35	0.47	1.00	1.19	1.02	0.73	0.53	0.41	0.42	0.39	0.31

Annual Max Momentary Gage Height 3.01 M (AD.), at 12.00 Hours, on Jul 27, 1996
Zero Gage at Bottom Elevation 0.00 M (AD.), River Bed 0.25 M (AD.)
Left Bank Elevation 3.16 M (AD.)
Right Bank Elevation 3.03 M (AD.), Drainage Area 101 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.07	0.08	0.16	6.69	3.70	15.46	1.22	0.42	0.16	0.13	0.12	
2	0.06	0.06	0.07	0.17	4.18	4.00	15.18	1.31	0.42	0.16	0.13	0.11	
3	0.05	0.06	0.10	0.16	3.26	3.54	10.81	1.60	0.40	0.16	0.13	0.11	
4	0.05	0.05	0.16	0.15	5.30	10.34	9.05	1.19	0.38	0.16	0.13	0.11	
5	0.05	0.05	0.12	0.14	4.86	6.77	8.95	4.06	0.34	0.16	0.13	0.11	
6	0.05	0.06	0.09	0.13	5.60	7.72	7.03	1.56	0.30	0.16	0.13	0.11	
7	0.05	0.07	0.07	0.16	4.44	4.12	8.75	1.31	0.28	0.15	0.13	0.11	
8	0.13	0.08	0.07	0.17	3.82	4.30	6.09	2.34	0.28	0.15	0.13	0.11	
9	0.11	0.36	0.07	0.16	2.90	3.00	11.29	1.80	0.28	0.15	0.13	0.11	
10	0.11	3.42	0.07	0.17	2.47	2.52	6.69	1.40	0.28	0.15	0.13	0.11	
11	0.10	0.18	0.07	0.15	2.47	2.43	9.79	1.25	0.28	0.15	0.13	0.11	
12	0.10	0.10	0.07	0.15	3.05	2.00	6.00	1.08	0.24	0.15	0.13	0.11	
13	0.09	0.14	0.09	0.17	2.00	1.84	5.00	0.93	0.24	0.15	0.13	0.11	
14	0.08	0.09	0.13	0.17	1.84	1.76	4.24	1.05	0.24	0.13	0.13	0.11	
15	0.07	0.07	0.11	0.15	1.96	4.86	3.65	0.98	0.22	0.13	0.13	0.11	
16	0.07	0.05	0.14	0.14	3.76	3.48	3.26	0.85	0.20	0.12	0.13	0.11	
17	0.06	0.08	0.78	0.14	2.34	2.95	2.85	0.80	0.19	0.12	0.13	0.11	
18	0.05	0.07	0.60	0.15	1.80	4.30	2.65	0.78	0.19	0.11	0.13	0.09	
19	0.05	0.07	0.38	0.15	1.28	3.65	2.52	0.73	0.18	0.11	0.13	0.09	
20	0.04	0.07	0.48	0.16	1.10	3.48	2.29	0.67	0.18	0.14	0.13	0.09	
21	0.05	0.09	0.50	0.15	4.00	5.38	2.08	0.67	0.18	0.15	0.13	0.10	
22	0.05	0.09	0.22	0.15	1.88	4.65	1.88	0.65	0.18	0.14	0.13	0.10	
23	0.05	0.12	0.16	0.16	2.00	4.24	1.80	0.63	0.18	0.12	0.13	0.10	
24	0.05	0.10	0.17	0.15	5.68	3.15	1.68	0.58	0.18	0.11	0.13	0.09	
25	0.32	0.10	0.46	2.12	4.06	2.70	1.88	0.52	0.18	0.11	0.13	0.10	
26	0.36	0.09	0.20	15.46	3.10	2.25	1.80	0.50	0.18	0.13	0.12	0.11	
27	0.38	0.08	0.18	17.90	2.75	4.58	1.52	0.50	0.17	0.13	0.11	0.11	
28	0.34	0.09	0.19	17.74	2.29	11.53	1.40	0.48	0.17	0.13	0.12	0.10	
29	0.15	0.11	0.34	12.13	2.29	10.34	1.25	0.48	0.16	0.13		0.11	
30	0.07	0.10	0.19	6.77	7.45	8.35	1.19	0.46	0.16	0.13		0.11	
31		0.09		6.77	4.00		1.16		0.16	0.13		0.10	
Total	3.25	6.26	6.36	82.60	104.62	137.93	159.19	32.38	7.44	4.28	3.60	3.28	551.19 CMSDAY
Mean	0.11	0.20	0.21	2.66	3.37	4.60	5.14	1.08	0.24	0.14	0.13	0.11	1.51 CMS
Max	0.38	3.42	0.78	17.90	7.45	11.53	15.46	4.06	0.42	0.16	0.13	0.12	17.90 CMS
Min	0.04	0.05	0.07	0.13	1.10	1.76	1.16	0.46	0.16	0.11	0.11	0.09	0.04 CMS
Runoff	0.281	0.541	0.550	7.137	9.039	11.917	13.754	2.798	0.643	0.370	0.311	0.283	47.623 MCM

Momentary Peak 18.87 CMS, at 3.01 M (AD.), at 12.00 Hours, on Jul 27, 1996

Runoff Yield 14.95 Liters/Second/Square KM, Momentary Peak Yield 186.832 Liters/Second/Square KM

WATER YEAR 1996

PHETCHABURI RIVER BASIN

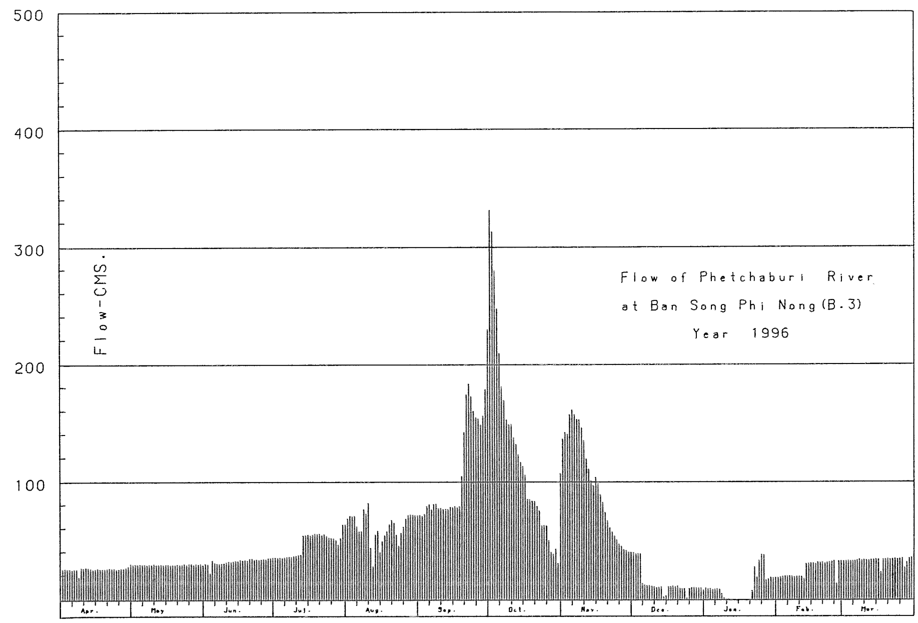
Phetchaburi River at Ban Sŏng Phi Nong, Phetchaburi (B.3)

Location	Lat. 12°-52′-04″ N., Long. 99°-40′-40″ E., on left bank at Ban Song Phi Nong, Amphoe Kaeng Krachan, 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	On left bank about 24 meters from 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +45.39 (M.S.L.) and is included.
General Description	Records good. Flow regulated by Kaeng Krachan Reservoir. Stage-discharge relation defined by 55 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.50	42.58	42.59	42.70	43.26	43.31	46.10	44.13	42.78	42.10	42.34	42.64	
2	42.50	42.58	42.59	42.70	43.30	43.29	45.93	44.19	42.77	42.10	42.34	42.65	
3	42.50	42.58	42.42	42.70	43.29	43.32	45.61	44.18	42.76	42.09	42.36	42.65	
4	42.49	42.58	42.65	42.70	43.30	43.41	45.30	44.36	42.77	42.08	42.36	42.65	
5	42.49	42.58	42.62	42.71	43.16	43.44	44.92	44.41	42.22	42.08	42.36	42.65	
6	42.49	42.58	42.60	42.71	43.09	43.37	44.62	44.36	42.17	42.08	42.36	42.64	
7	42.50	42.58	42.60	42.72	43.09	43.44	44.50	44.32	42.17	42.08	42.36	42.66	
8	42.35	42.58	42.60	42.71	43.38	43.44	44.31	44.31	42.16	41.94	42.34	42.67	
9	42.52	42.58	42.61	42.73	43.32	43.39	44.27	44.24	42.15	41.76	42.36	42.66	
10	42.51	42.59	42.62	42.73	43.45	43.39	44.27	44.11	42.13	41.72	42.35	42.66	
11	42.53	42.58	42.63	42.74	42.85	43.38	44.14	43.93	42.11	41.69	42.35	42.66	
12	42.52	42.58	42.63	42.75	42.55	43.38	44.08	43.83	42.12	41.67	42.32	42.66	
13	42.50	42.58	42.63	43.03	43.05	43.38	43.97	43.70	42.13	41.65	42.60	42.66	
14	42.49	42.58	42.65	43.04	43.10	43.40	43.90	43.65	41.85	41.65	42.60	42.67	
15	42.49	42.58	42.65	43.05	42.79	43.40	43.85	43.74	41.87	41.64	42.61	42.67	
16	42.50	42.58	42.66	43.03	42.95	43.41	43.76	43.67	42.15	41.64	42.60	42.67	
17	42.50	42.57	42.66	43.05	43.04	43.40	43.50	43.55	42.14	41.64	42.60	42.44	
18	42.49	42.57	42.66	43.06	43.09	43.41	43.49	43.46	42.15	41.64	42.62	42.67	
19	42.50	42.58	42.66	43.06	43.19	43.75	43.48	43.34	42.14	41.64	42.62	42.68	
20	42.51	42.58	42.68	43.06	43.24	44.20	43.47	43.23	42.15	41.64	42.62	42.68	
21	42.51	42.58	42.68	43.04	43.21	44.55	43.41	43.14	42.09	42.04	42.61	42.67	
22	42.51	42.58	42.67	43.05	43.05	44.65	43.36	43.09	42.09	42.54	42.62	42.68	
23	42.50	42.59	42.67	43.03	42.89	44.53	43.17	43.03	42.08	42.35	42.62	42.68	
24	42.49	42.58	42.67	43.00	43.07	44.40	43.17	42.97	41.75	42.65	42.64	42.68	
25	42.49	42.59	42.67	43.00	43.15	44.34	43.17	42.91	42.10	42.75	42.64	42.68	
26	42.50	42.59	42.68	42.99	43.26	44.32	42.96	42.88	42.11	42.75	42.22	42.69	
27	42.51	42.58	42.68	42.97	43.31	44.27	42.79	42.83	42.12	42.29	42.64	42.53	
28	42.53	42.59	42.69	42.90	43.31	44.35	42.75	42.81	42.10	42.30	42.64	42.62	
29	42.54	42.59	42.70	43.00	43.31	44.60	42.84	42.79	42.11	42.34		42.70	
30	42.59	42.59	42.70	43.18	43.30	45.12	42.60	42.78	42.10	42.32		42.70	
31		42.57		43.19	43.30		43.78		42.06	42.33		42.70	
Mean	42.50	42.58	42.64	42.91	43.15	43.80	43.92	43.60	42.18	42.04	42.49	42.66	
Max	42.59	42.59	42.70	43.19	43.45	45.12	46.10	44.41	42.78	42.75	42.64	42.70	46.10
Min	42.35	42.57	42.42	42.70	42.55	43.29	42.60	42.78	41.75	41.64	42.22	42.44	41.64

Annual Max Momentary Gage Height 46.16 M (MSL), at 18.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 41.00 M (MSL), River Bed 40.52 M (MSL)
Left Bank Elevation 45.42 M (MSL)
Right Bank Elevation 45.38 M (MSL), Drainage Area 2244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.50	30.10	30.55	36.00	69.40	72.70	331.50	137.05	40.40	10.00	19.30	33.00	
2	26.50	30.10	30.55	36.00	72.00	71.35	313.65	142.15	39.85	10.00	19.30	33.50	
3	26.50	30.10	22.90	36.00	71.35	73.40	280.05	141.30	39.30	9.65	20.20	33.50	
4	26.05	30.10	33.50	36.00	72.00	79.70	248.00	157.40	39.85	9.30	20.20	33.50	
5	26.05	30.10	32.00	36.55	62.90	81.80	210.00	161.90	14.30	9.30	20.20	33.50	
6	26.05	30.10	31.00	36.55	58.40	76.90	181.40	157.40	12.45	9.30	20.20	33.00	
7	26.50	30.10	31.00	37.10	58.40	81.80	170.00	153.80	12.45	9.30	20.20	34.00	
8	19.75	30.10	31.00	36.55	77.60	81.80	152.90	152.90	12.10	5.00	19.30	34.50	
9	27.40	30.10	31.50	37.65	73.40	78.30	149.30	146.60	11.75	1.52	20.20	34.00	
10	26.95	30.55	32.00	37.65	82.50	78.30	149.30	135.35	11.05	1.04	19.75	34.00	
11	27.85	30.10	32.50	38.20	44.25	77.60	137.90	120.05	10.35	0.72	19.75	34.00	
12	27.40	30.10	32.50	38.75	28.75	77.60	132.80	111.90	10.70	0.56	18.40	34.00	
13	26.50	30.10	32.50	54.80	56.00	77.60	123.45	101.50	11.05	0.40	31.00	34.00	
14	26.05	30.10	33.50	55.40	59.00	79.00	117.50	97.50	3.00	0.40	31.00	34.50	
15	26.05	30.10	33.50	56.00	40.95	79.00	113.50	104.70	3.40	0.32	31.50	34.50	
16	26.50	30.10	34.00	54.80	50.00	79.70	106.30	99.10	11.75	0.32	31.00	34.50	
17	26.50	29.65	34.00	56.00	55.40	79.00	86.00	89.75	11.40	0.32	31.00	23.80	
18	26.05	29.65	34.00	56.60	58.40	79.70	85.30	83.20	11.75	0.32	32.00	34.50	
19	26.50	30.10	34.00	56.60	64.85	105.50	84.60	74.80	11.40	0.32	32.00	35.00	
20	26.95	30.10	35.00	56.60	68.10	143.00	83.90	67.45	11.75	0.32	32.00	35.00	
21	26.95	30.10	35.00	55.40	66.15	174.75	79.70	61.60	9.65	7.90	31.50	34.50	
22	26.95	30.10	34.50	56.00	56.00	184.25	76.20	58.40	9.65	28.30	32.00	35.00	
23	26.50	30.55	34.50	54.80	46.45	172.85	63.55	54.80	9.30	19.75	32.00	35.00	
24	26.05	30.10	34.50	53.00	57.20	161.00	63.55	51.20	1.40	33.50	33.00	35.00	
25	26.05	30.55	34.50	53.00	62.25	155.60	63.55	47.60	10.00	38.75	33.00	35.00	
26	26.50	30.55	35.00	52.40	69.40	153.80	50.60	45.90	10.35	38.75	14.30	35.50	
27	26.95	30.10	35.00	51.20	72.70	149.30	40.95	43.15	10.70	17.10	33.00	27.85	
28	27.85	30.55	35.50	47.00	72.70	156.50	38.75	42.05	10.00	17.50	33.00	32.00	
29	28.30	30.55	36.00	53.00	72.70	179.50	43.70	40.95	10.35	19.30		36.00	
30	30.55	30.55	36.00	64.20	72.00	230.00	31.00	40.40	10.00	18.40		36.00	
31		29.65		64.85	72.00		107.90		8.60	18.85		36.00	
Total	797.25	934.90	992.00	1494.65	1943.20	3371.30	3916.80	2921.85	430.05	336.51	730.30	1048.15	18916.96 CMSDAY
Mean	26.57	30.16	33.07	48.21	62.68	112.38	126.35	97.39	13.87	10.86	26.08	33.81	51.83 CMS
Max	30.55	30.55	36.00	64.85	82.50	230.00	331.50	161.90	40.40	38.75	33.00	36.00	331.50 CMS
Min	19.75	29.65	22.90	36.00	28.75	71.35	31.00	40.40	1.40	0.32	14.30	23.80	0.32 CMS
Runoff	68.882	80.775	85.709	129.138	167.892	291.280	338.412	252.448	37.156	29.074	63.098	90.560	1634.425 MCM

Momentary Peak 337.80 CMS, at 46.16 M (MSL), at 18.00 Hours, on Oct 1, 1996

Runoff Yield 23.10 Liters/Second/Square KM, Momentary Peak Yield 150.535 Liters/Second/Square KM

WATER YEAR 1996

PHETCHABURI RIVER BASIN

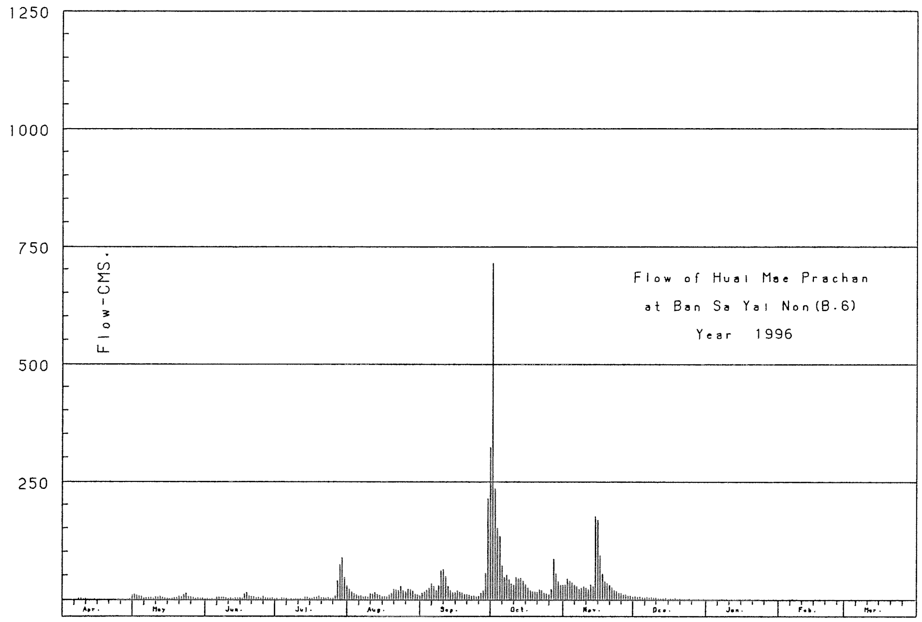
Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6)

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 Kaeng Krachan, Phetchaburi.
Drainage Area	1,015 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+22.71 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+30.274 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	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	Overbank flow starts at elevation + 29.08 m.(M.S.L.) and is included.
General Description	Records fair. Stage-discharge relation defined by 45 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.73	22.85	22.17	22.20	23.21	22.91	28.98	23.50	22.91	22.63	22.59	22.46	
2	21.72	22.67	22.17	22.20	23.05	23.05	26.04	23.78	22.90	22.63	22.59	22.46	
3	21.72	22.65	22.13	22.30	22.87	23.14	25.26	23.70	22.89	22.63	22.58	22.45	
4	21.71	22.51	22.10	22.36	22.81	23.30	25.09	23.59	22.86	22.62	22.58	22.45	
5	21.71	22.40	22.48	22.30	22.67	23.56	24.27	23.49	22.84	22.62	22.57	22.45	
6	21.73	22.30	22.42	22.18	22.60	23.38	23.83	23.38	22.83	22.62	22.57	22.45	
7	22.30	22.43	22.49	22.15	22.53	23.15	23.95	23.26	22.83	22.62	22.56	22.44	
8	22.24	22.36	22.40	22.14	22.49	23.43	23.76	23.29	22.83	22.61	22.55	22.44	
9	22.22	22.31	22.33	22.14	22.48	24.11	23.52	23.41	22.82	22.61	22.54	22.44	
10	22.19	22.45	22.28	22.13	22.86	24.14	23.46	23.30	22.80	22.61	22.53	22.44	
11	22.17	22.50	22.24	22.12	22.86	23.87	23.86	23.21	22.79	22.60	22.53	22.44	
12	22.14	22.58	22.29	22.21	22.96	23.42	23.80	23.48	22.77	22.60	22.52	22.44	
13	22.11	22.37	22.24	22.42	22.83	23.12	23.80	23.41	22.77	22.60	22.52	22.44	
14	22.10	22.26	22.38	22.50	22.68	23.00	23.68	25.50	22.75	22.60	22.52	22.44	
15	22.06	22.31	22.37	22.34	22.58	23.02	23.48	25.44	22.74	22.59	22.51	22.44	
16	22.04	22.10	22.35	22.32	22.48	23.11	23.30	24.58	22.74	22.59	22.51	22.44	
17	22.03	22.31	22.88	22.41	22.54	23.03	23.15	24.00	22.74	22.59	22.50	22.44	
18	22.06	22.33	22.96	22.51	22.72	22.94	23.05	23.66	22.73	22.59	22.50	22.44	
19	22.04	22.43	22.67	22.56	22.94	22.84	23.06	23.55	22.73	22.59	22.49	22.43	
20	22.03	22.54	22.51	22.44	23.21	22.77	23.00	23.47	22.72	22.58	22.47	22.43	
21	22.00	22.54	22.46	22.40	23.17	22.71	23.22	23.32	22.71	22.58	22.44	22.43	
22	21.99	22.81	22.43	22.38	23.15	22.66	23.14	23.23	22.70	22.58	22.43	22.42	
23	21.99	22.92	22.39	22.34	23.41	22.59	22.98	23.17	22.69	22.59	22.42	22.42	
24	22.08	22.57	22.36	22.32	23.11	22.57	22.88	23.13	22.68	22.59	22.41	22.42	
25	22.06	22.44	22.57	22.33	23.06	22.56	22.83	23.09	22.66	22.59	22.44	22.41	
26	22.04	22.36	22.41	22.64	23.21	22.90	23.23	23.04	22.66	22.59	22.47	22.41	
27	21.98	22.31	22.35	23.69	23.22	23.13	24.50	23.02	22.65	22.59	22.45	22.42	
28	21.99	22.26	22.33	24.32	23.07	24.02	23.98	22.97	22.65	22.59	22.45	22.49	
29	22.24	22.24	22.25	24.52	22.89	25.85	23.64	22.94	22.64	22.59		22.52	
30	22.76	22.22	22.21	23.83	22.73	26.70	23.47	22.91	22.64	22.59		22.53	
31		22.20		23.44	22.67		23.46		22.63	22.59		22.54	
Mean	22.04	22.44	22.39	22.59	22.87	23.37	23.86	23.53	22.75	22.60	22.51	22.45	
Max	22.76	22.92	22.96	24.52	23.41	26.70	28.98	25.50	22.91	22.63	22.59	22.54	28.98
Min	21.71	22.10	22.10	22.12	22.48	22.56	22.83	22.91	22.63	22.58	22.41	22.41	21.71

Annual Max Momentary Gage Height 30.39 M (MSL), at 6.00 Hours, on Oct 1, 1996
Zero Gage at Bottom Elevation 22.71 M (MSL), River Bed 21.60 M (MSL)
Left Bank Elevation 29.93 M (MSL)
Right Bank Elevation 29.07 M (MSL), Drainage Area 1015 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	12.50	2.70	3.00	22.35	13.75	716.16	33.00	7.30	1.80	1.40	0.30	
2	0.00	9.05	2.70	3.00	17.50	17.50	237.30	45.10	7.00	1.80	1.40	0.30	
3	0.00	8.75	2.30	4.00	12.90	20.20	152.70	41.50	6.75	1.80	1.30	0.25	
4	0.00	6.65	2.00	4.60	11.70	25.50	136.60	36.60	6.00	1.70	1.30	0.25	
5	0.00	5.00	6.20	4.00	9.05	35.40	72.55	32.60	5.50	1.70	1.20	0.25	
6	0.00	4.00	5.30	2.80	8.00	28.30	47.50	28.30	5.25	1.70	1.20	0.25	
7	4.00	5.45	6.35	2.50	6.95	20.50	53.75	24.10	5.25	1.70	1.10	0.20	
8	3.40	4.60	5.00	2.40	6.35	30.20	44.20	25.15	5.25	1.60	1.00	0.20	
9	3.20	4.10	4.30	2.40	6.20	62.60	33.80	29.40	5.00	1.60	0.90	0.20	
10	2.90	5.75	3.80	2.30	12.70	64.40	31.40	25.50	4.50	1.60	0.80	0.20	
11	2.70	6.50	3.40	2.20	12.70	49.50	49.00	22.35	4.30	1.50	0.80	0.20	
12	2.40	7.70	3.90	3.10	15.00	29.80	46.00	32.20	3.90	1.50	0.70	0.20	
13	2.10	4.70	3.40	5.30	12.10	19.60	46.00	29.40	3.90	1.50	0.70	0.20	
14	2.00	3.60	4.80	6.50	9.20	16.00	40.60	176.83	3.50	1.50	0.70	0.20	
15	1.60	4.10	4.70	4.40	7.70	16.60	32.20	170.73	3.30	1.40	0.60	0.20	
16	1.40	2.00	4.50	4.20	6.20	19.30	25.50	94.00	3.30	1.40	0.60	0.20	
17	1.30	4.10	13.10	5.15	7.10	16.90	20.50	56.50	3.30	1.40	0.50	0.20	
18	1.60	4.30	15.00	6.65	9.90	14.50	17.50	39.70	3.10	1.40	0.50	0.20	
19	1.40	5.45	9.05	7.40	14.50	12.30	17.80	35.00	3.10	1.40	0.45	0.15	
20	1.30	7.10	6.65	5.60	22.35	10.90	16.00	31.80	2.90	1.30	0.35	0.15	
21	1.00	7.10	5.90	5.00	21.10	9.70	22.70	25.80	2.70	1.30	0.20	0.15	
22	0.90	11.70	5.45	4.80	20.50	8.90	20.20	20.80	2.50	1.30	0.15	0.10	
23	0.90	14.00	4.90	4.40	29.40	7.85	15.50	17.50	2.40	1.40	0.10	0.10	
24	1.80	7.55	4.60	4.20	19.30	7.55	13.10	15.50	2.30	1.40	0.05	0.10	
25	1.60	5.60	7.55	4.30	17.80	7.40	12.10	13.60	2.10	1.40	0.20	0.05	
26	1.40	4.60	5.15	8.60	22.35	13.50	23.05	11.60	2.10	1.40	0.35	0.05	
27	0.80	4.10	4.50	41.05	22.70	19.90	88.00	10.80	2.00	1.40	0.25	0.10	
28	0.90	3.60	4.30	75.80	18.10	57.60	55.40	9.10	2.00	1.40	0.25	0.45	
29	3.40	3.40	3.50	89.50	13.30	215.25	38.80	8.20	1.90	1.40		0.70	
30	10.70	3.20	3.10	47.50	10.10	325.00	31.80	7.30	1.90	1.40		0.80	
31		3.00		30.60	9.05		31.40		1.80	1.40		0.90	
Total	54.70	183.25	158.10	397.25	434.15	1196.40	2189.11	1149.96	116.10	46.50	19.05	7.80	5952.37 CMSDAY
Mean	1.82	5.91	5.27	12.81	14.00	39.88	70.62	38.33	3.75	1.50	0.68	0.25	16.31 CMS
Max	10.70	14.00	15.00	89.50	29.40	325.00	716.16	176.83	7.30	1.80	1.40	0.90	716.16 CMS
Min	0.00	2.00	2.00	2.20	6.20	7.40	12.10	7.30	1.80	1.30	0.05	0.05	0.00 CMS
Runoff	4.726	15.833	13.660	34.322	37.511	103.369	189.139	99.357	10.031	4.018	1.646	0.674	514.285 MCM

Momentary Peak 1037.75 CMS, at 30.39 M (MSL), at 6.00 Hours, on Oct 1, 1996
Runoff Yield 16.07 Liters/Second/Square KM, Momentary Peak Yield 1022.414 Liters/Second/Square KM

WATER YEAR 1996

PHETCHABURI RIVER BASIN

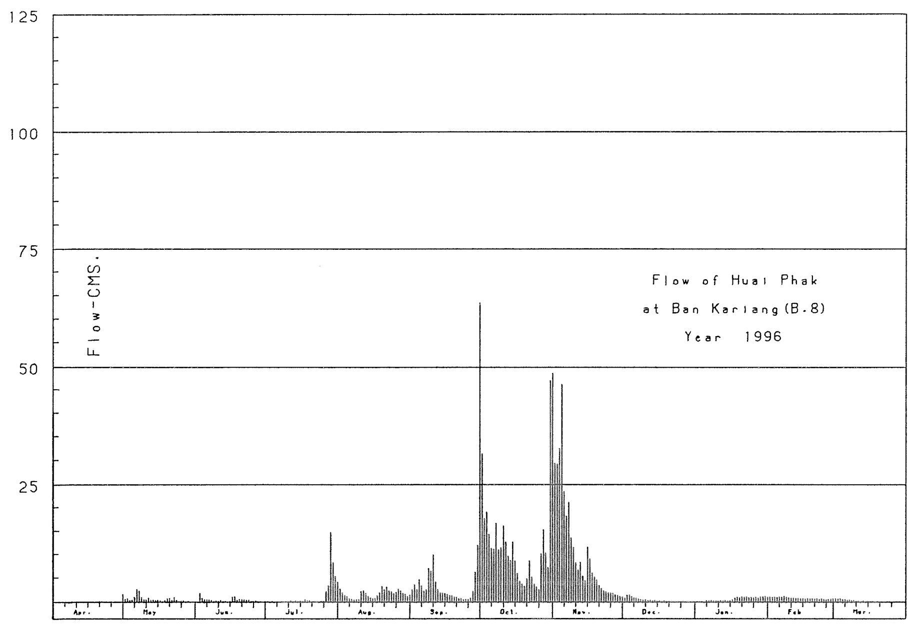
Huai Phak at Ban Kariang, Phetchaburi (B.8)

Location	Lat. 12°-48'-49" N., Long. 99°-41'-32" E., on left bank at Ban Kariang, 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 62 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	1.83	1.57	1.62	2.22	2.18	4.07	3.98	1.88	1.58	1.91	1.84	
2	0.66	1.84	2.07	1.60	2.06	2.33	3.40	3.98	1.98	1.58	1.91	1.84	
3	0.63	1.76	1.86	1.63	1.99	2.20	3.48	4.11	2.01	1.58	1.90	1.84	
4	0.60	1.72	1.82	1.59	1.92	2.44	3.19	4.63	1.93	1.61	1.90	1.82	
5	0.61	1.91	1.78	1.57	1.85	2.29	3.00	3.70	1.89	1.71	1.91	1.81	
6	0.61	2.19	1.81	1.56	1.81	2.15	2.98	3.43	1.86	1.73	1.92	1.78	
7	0.60	2.15	1.72	1.57	1.79	2.18	3.34	3.59	1.84	1.72	1.94	1.78	
8	0.59	1.89	1.69	1.58	1.76	2.68	2.98	3.15	1.80	1.72	1.92	1.75	
9	0.57	1.82	1.70	1.56	1.82	2.62	3.00	3.01	1.80	1.71	1.88	1.73	
10	0.53	1.80	1.70	1.60	2.11	2.90	3.31	2.77	1.77	1.70	1.87	1.68	
11	0.54	1.87	1.71	1.65	2.16	2.41	3.09	2.65	1.76	1.69	1.86	1.68	
12	0.55	1.77	1.66	1.63	2.05	2.19	2.88	2.78	1.74	1.72	1.86	1.65	
13	0.51	1.74	1.63	1.66	1.95	2.08	2.81	2.53	1.73	1.72	1.85	1.67	
14	0.52	1.75	1.63	1.64	1.87	2.06	3.08	2.42	1.71	1.70	1.84	1.65	
15	0.52	1.73	1.64	1.62	1.85	2.06	2.81	3.02	1.70	1.68	1.84	1.64	
16	0.52	1.70	1.90	1.68	1.84	2.02	2.58	2.84	1.68	1.76	1.84	1.65	
17	0.51	1.66	1.94	1.79	1.98	2.00	2.42	2.59	1.67	1.88	1.84	1.62	
18	0.50	1.68	1.79	1.74	2.07	1.96	2.34	2.51	1.67	1.90	1.84	1.59	
19	1.47	1.85	1.80	1.68	2.29	1.93	2.29	2.44	1.66	1.89	1.84	1.59	
20	1.67	1.85	1.81	1.64	2.18	1.90	2.46	2.31	1.64	1.91	1.84	1.57	
21	1.60	1.77	1.77	1.62	2.27	1.86	2.81	2.22	1.63	1.92	1.84	1.50	
22	1.58	1.89	1.77	1.60	2.14	1.84	2.50	2.16	1.62	1.91	1.83	1.51	
23	1.57	1.78	1.75	1.60	2.13	1.82	2.35	2.11	1.61	1.89	1.83	1.52	
24	1.57	1.73	1.69	1.61	2.04	1.80	2.26	2.08	1.61	1.89	1.83	1.46	
25	1.57	1.69	1.66	1.69	2.11	1.83	2.20	2.08	1.61	1.89	1.81	1.43	
26	1.57	1.66	1.65	2.13	2.21	1.86	2.91	2.05	1.60	1.89	1.81	1.41	
27	1.57	1.64	1.63	2.30	2.13	2.14	3.26	2.01	1.59	1.88	1.84	1.41	
28	1.57	1.63	1.59	3.22	2.07	2.60	2.92	1.97	1.59	1.92	1.83	1.44	
29	1.56	1.60	1.59	2.78	2.01	3.04	2.69	1.95	1.58	1.94		1.47	
30	2.03	1.58	1.62	2.51	1.95	5.22	4.66	1.91	1.58	1.93		1.49	
31		1.57		2.39	1.98		4.71		1.58	1.92		1.51	
Mean	0.99	1.78	1.73	1.81	2.02	2.29	2.99	2.77	1.72	1.79	1.86	1.62	
Max	2.03	2.19	2.07	3.22	2.29	5.22	4.71	4.63	2.01	1.94	1.94	1.84	5.22
Min	0.50	1.57	1.57	1.56	1.76	1.80	2.20	1.91	1.58	1.58	1.81	1.41	0.50

Annual Max Momentary Gage Height 6.36 M (A.D), at 10.00 Hours, on Sep 30, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.30 M (A.D)
Left Bank Elevation 6.50 M (A.D)
Right Bank Elevation 8.70 M (A.D), Drainage Area 264 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.75	0.17	0.24	2.96	2.68	31.75	29.56	1.00	0.18	1.15	0.80	
2	0.00	0.80	2.02	0.20	1.96	3.84	17.80	29.56	1.50	0.18	1.15	0.80	
3	0.00	0.52	0.90	0.26	1.55	2.80	19.32	32.75	1.66	0.18	1.10	0.80	
4	0.00	0.44	0.70	0.19	1.20	4.80	14.45	46.44	1.25	0.22	1.10	0.70	
5	0.00	1.15	0.56	0.17	0.85	3.52	11.60	23.60	1.05	0.42	1.15	0.65	
6	0.00	2.74	0.65	0.16	0.65	2.50	11.32	18.37	0.90	0.46	1.20	0.56	
7	0.00	2.50	0.44	0.17	0.58	2.68	16.84	21.41	0.80	0.44	1.30	0.56	
8	0.00	1.05	0.38	0.18	0.52	7.36	11.32	13.85	0.60	0.44	1.20	0.50	
9	0.00	0.70	0.40	0.16	0.70	6.64	11.60	11.75	0.60	0.42	1.00	0.46	
10	0.00	0.60	0.40	0.20	2.26	10.20	16.36	8.44	0.54	0.40	0.95	0.36	
11	0.00	0.95	0.42	0.30	2.56	4.50	12.95	7.00	0.52	0.38	0.90	0.36	
12	0.00	0.54	0.32	0.26	1.90	2.74	9.92	8.56	0.48	0.44	0.90	0.30	
13	0.00	0.48	0.26	0.32	1.35	2.08	8.94	5.70	0.46	0.44	0.85	0.34	
14	0.00	0.50	0.26	0.28	0.95	1.96	12.80	4.60	0.42	0.40	0.80	0.30	
15	0.00	0.46	0.28	0.24	0.85	1.96	8.94	11.90	0.40	0.36	0.80	0.28	
16	0.00	0.40	1.10	0.36	0.80	1.72	6.20	9.36	0.36	0.52	0.80	0.30	
17	0.00	0.32	1.30	0.58	1.50	1.60	4.60	6.30	0.34	1.00	0.80	0.24	
18	0.00	0.36	0.58	0.48	2.02	1.40	3.92	5.50	0.34	1.10	0.80	0.19	
19	0.07	0.85	0.60	0.36	3.52	1.25	3.52	4.80	0.32	1.05	0.80	0.19	
20	0.34	0.85	0.65	0.28	2.68	1.10	5.00	3.68	0.28	1.15	0.80	0.17	
21	0.20	0.54	0.54	0.24	3.36	0.90	8.94	2.96	0.26	1.20	0.80	0.10	
22	0.18	1.05	0.54	0.20	2.44	0.80	5.40	2.56	0.24	1.15	0.75	0.11	
23	0.17	0.56	0.50	0.20	2.38	0.70	4.00	2.26	0.22	1.05	0.75	0.12	
24	0.17	0.46	0.38	0.22	1.84	0.60	3.28	2.08	0.22	1.05	0.75	0.06	
25	0.17	0.38	0.32	0.38	2.26	0.75	2.80	2.08	0.22	1.05	0.65	0.03	
26	0.17	0.32	0.30	2.38	2.88	0.90	10.34	1.90	0.20	1.05	0.65	0.01	
27	0.17	0.28	0.26	3.60	2.38	2.44	15.56	1.66	0.19	1.00	0.80	0.01	
28	0.17	0.26	0.19	14.92	2.02	6.40	10.48	1.45	0.19	1.20	0.75	0.04	
29	0.16	0.20	0.19	8.56	1.66	12.20	7.48	1.35	0.18	1.30		0.07	
30	1.78	0.18	0.24	5.50	1.35	63.65	47.28	1.15	0.18	1.25		0.09	
31		0.17		4.32	1.50		48.68		0.18	1.20		0.11	
Total	3.75	21.36	15.85	45.91	55.43	156.67	403.39	322.58	16.10	22.68	25.45	9.61	1098.78 CMSDAY
Mean	0.12	0.69	0.53	1.48	1.79	5.22	13.01	10.75	0.52	0.73	0.91	0.31	3.01 CMS
Max	1.78	2.74	2.02	14.92	3.52	63.65	48.68	46.44	1.66	1.30	1.30	0.80	63.65 CMS
Min	0.00	0.17	0.17	0.16	0.52	0.60	2.80	1.15	0.18	0.18	0.65	0.01	0.00 CMS
Runoff	0.324	1.846	1.369	3.967	4.789	13.536	34.853	27.871	1.391	1.960	2.199	0.830	94.935 MCM

Momentary Peak 100.70 CMS, at 6.36 M (A.D), at 10.00 Hours, on Sep 30, 1996

Runoff Yield 11.40 Liters/Second/Square KM, Momentary Peak Yield 381.439 Liters/Second/Square KM

WATER YEAR 1996

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 +4.27 m.(A.D.) and is included.

General Description — Records fair. Flow regulated by Phet Dam. Stage-discharge relation defined by 58 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

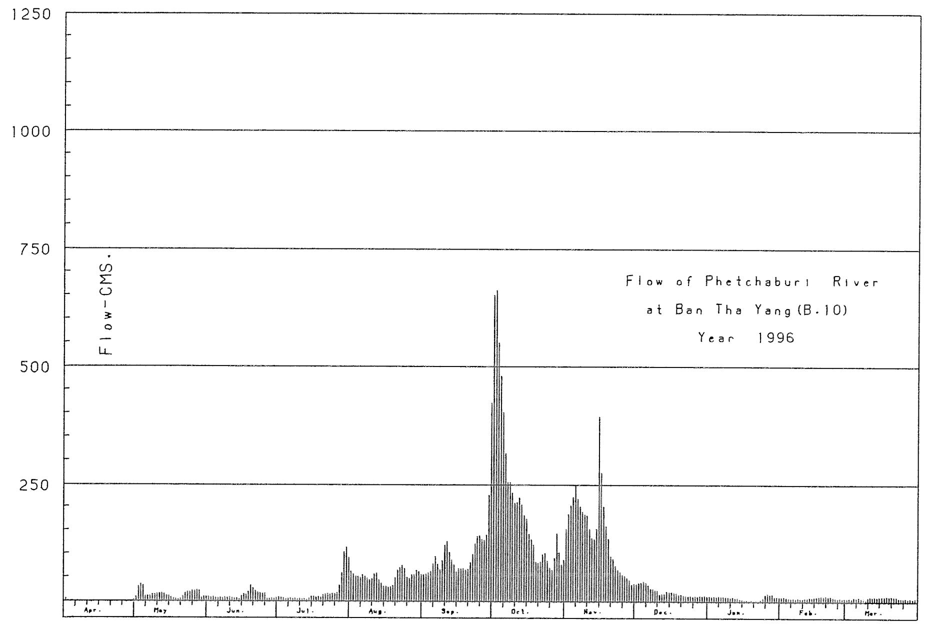
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.29	1.52	1.55	1.54	4.36	4.05	9.01	6.82	3.18	1.67	1.60	1.37	
2	0.78	2.95	1.53	1.50	4.13	4.19	9.03	7.19	3.26	1.65	1.57	1.37	
3	0.75	3.12	1.54	1.38	3.96	4.21	8.82	7.37	3.35	1.64	1.51	1.35	
4	0.74	3.04	1.49	1.26	3.89	4.40	8.65	7.50	3.43	1.66	1.36	1.51	
5	0.69	1.71	1.41	1.30	3.83	5.02	8.42	7.69	3.35	1.67	1.36	1.49	
6	0.67	1.64	1.39	1.29	4.05	5.54	8.08	7.47	3.03	1.68	1.37	1.51	
7	0.63	1.74	1.39	1.28	3.95	4.95	7.73	7.35	2.72	1.62	1.34	1.47	
8	0.59	1.89	1.45	1.26	3.70	4.54	7.74	7.24	2.64	1.62	1.36	1.49	
9	0.58	1.95	1.48	1.24	3.60	5.23	7.57	7.20	2.55	1.57	1.34	1.52	
10	0.56	1.98	1.48	1.20	3.64	6.22	7.41	7.16	2.47	1.53	1.34	1.58	
11	0.49	2.12	1.39	1.21	4.14	6.42	7.41	6.84	1.98	1.49	1.35	1.59	
12	0.48	2.13	1.36	1.20	4.25	5.83	7.50	6.53	2.00	1.46	1.44	1.60	
13	0.51	1.94	1.30	1.13	3.62	5.30	7.37	6.51	2.09	1.39	1.47	1.59	
14	0.49	1.79	1.24	1.28	3.24	4.94	7.18	6.83	2.38	1.29	1.49	1.59	
15	0.50	1.61	1.71	1.62	2.94	4.36	7.08	8.39	2.33	1.05	1.51	1.59	
16	0.48	1.45	1.95	1.58	2.88	4.60	6.67	7.86	2.28	1.00	1.55	1.59	
17	0.50	1.38	1.93	1.52	2.85	4.63	6.50	7.35	2.24	0.98	1.71	1.71	
18	0.50	1.10	2.28	1.55	2.83	4.60	6.24	6.90	2.14	0.97	1.70	1.69	
19	0.49	1.07	3.05	1.53	3.05	4.52	5.16	6.52	1.96	0.96	1.70	1.71	
20	0.50	1.14	2.68	1.87	3.76	4.55	5.04	5.54	1.94	0.92	1.71	1.70	
21	0.50	1.70	2.47	2.03	4.50	5.08	5.20	5.39	1.87	0.88	1.68	1.66	
22	0.49	2.13	2.24	2.01	4.72	5.70	5.67	4.83	1.70	0.92	1.64	1.59	
23	0.52	2.26	2.09	2.02	4.85	6.31	5.74	4.54	1.74	1.03	1.56	1.45	
24	0.52	2.31	2.06	2.03	4.64	6.59	5.27	4.29	1.70	1.44	1.41	1.39	
25	0.53	2.42	2.04	2.05	3.82	6.63	4.72	4.10	1.69	1.94	1.39	1.37	
26	0.64	2.48	1.30	2.15	3.74	6.48	4.47	3.93	1.67	2.06	1.36	1.35	
27	0.72	2.52	1.27	3.06	4.04	6.47	5.46	3.79	1.69	1.95	1.35	1.32	
28	0.73	2.41	1.30	4.28	4.09	6.64	6.71	3.53	1.72	1.92	1.33	1.31	
29	0.75	1.47	1.30	5.83	4.45	7.54	5.80	3.14	1.73	1.62		1.32	
30	0.97	1.57	1.38	6.14	4.38	8.48	4.95	3.20	1.72	1.53		1.32	
31		1.63		5.51	4.06		5.29		1.70	1.49		1.37	
Mean	0.62	1.94	1.70	2.09	3.87	5.47	6.71	6.10	2.27	1.44	1.48	1.50	
Max	1.29	3.12	3.05	6.14	4.85	8.48	9.03	8.39	3.43	2.06	1.71	1.71	9.03
Min	0.48	1.07	1.24	1.13	2.83	4.05	4.47	3.14	1.67	0.88	1.33	1.31	0.48

Annual Max Momentary Gage Height — 9.13 M (A.D), at 18.00 Hours, on Oct 1, 1996

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.48 M (A.D)

Left Bank Elevation — 4.26 M (A.D)

Right Bank Elevation — 5.50 M (A.D), Drainage Area 4111 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.9	9.7	10.1	10.0	64.5	57.4	652.0	154.5	38.1	11.8	10.8	7.7	
2	1.9	33.5	9.8	9.4	59.2	60.5	664.0	186.1	39.7	11.5	10.4	7.7	
3	1.7	36.9	10.0	7.8	55.3	61.0	551.6	206.4	41.6	11.4	9.6	7.5	
4	1.7	35.3	9.3	6.6	53.8	65.5	482.0	223.0	43.4	11.7	7.6	9.6	
5	1.5	12.4	8.1	7.0	52.4	81.7	404.4	248.6	41.6	11.8	7.6	9.3	
6	1.4	11.4	7.9	6.9	57.4	96.6	317.6	219.1	35.1	12.0	7.7	9.6	
7	1.1	12.8	7.9	6.8	55.1	79.8	254.5	204.0	28.9	11.1	7.4	9.0	
8	0.9	14.9	8.7	6.6	49.5	69.0	256.0	191.4	27.3	11.1	7.6	9.3	
9	0.9	15.8	9.1	6.4	47.2	87.4	232.1	187.0	25.5	10.4	7.4	9.7	
10	0.8	16.2	9.1	6.0	48.2	120.7	211.3	183.4	23.9	9.8	7.4	10.6	
11	0.5	18.3	7.9	6.1	59.4	129.6	211.3	156.0	16.2	9.3	7.5	10.7	
12	0.5	18.5	7.6	6.0	61.9	106.3	223.0	135.6	16.5	8.9	8.6	10.8	
13	0.5	15.7	7.0	5.3	47.7	89.3	206.4	134.4	17.8	7.9	9.0	10.7	
14	0.5	13.5	6.4	6.8	39.3	79.5	185.2	155.2	22.2	6.9	9.3	10.7	
15	0.5	11.0	12.4	11.1	33.3	64.5	176.2	395.3	21.4	4.5	9.6	10.7	
16	0.5	8.7	15.8	10.6	32.1	70.5	144.3	274.6	20.7	4.0	10.1	10.7	
17	0.5	7.8	15.5	9.7	31.5	71.3	133.8	204.0	20.1	3.8	12.4	12.4	
18	0.5	5.0	20.7	10.1	31.1	70.5	121.6	160.5	18.6	3.7	12.3	12.1	
19	0.5	4.7	35.5	9.8	35.5	68.5	85.5	135.0	15.9	3.6	12.3	12.4	
20	0.5	5.4	28.1	14.7	50.8	69.3	82.2	96.6	15.7	3.2	12.4	12.3	
21	0.5	12.3	23.9	16.9	68.0	83.3	86.5	91.9	14.7	2.8	12.0	11.7	
22	0.5	18.5	20.1	16.6	73.5	102.0	100.9	76.5	12.3	3.2	11.4	10.7	
23	0.6	20.4	17.8	16.8	77.1	124.6	103.3	69.0	12.8	4.3	10.3	8.7	
24	0.6	21.1	17.4	16.9	71.5	139.2	88.4	62.8	12.3	8.6	8.1	7.9	
25	0.6	22.9	17.1	17.2	52.2	141.7	73.5	58.5	12.1	15.7	7.9	7.7	
26	1.2	24.1	7.0	18.8	50.4	132.7	67.2	54.7	11.8	17.4	7.6	7.5	
27	1.6	24.9	6.7	35.7	57.1	132.2	94.1	51.5	12.1	15.8	7.5	7.2	
28	1.7	22.7	7.0	62.5	58.3	142.4	146.9	45.7	12.5	15.4	7.3	7.1	
29	1.7	9.0	7.0	106.3	66.7	228.2	105.3	37.3	12.7	11.1		7.2	
30	3.7	10.4	7.8	117.2	65.0	423.6	79.8	38.5	12.5	9.8		7.2	
31		11.3		95.6	57.6		89.0		12.3	9.3		7.7	
Total	36.5	505.1	378.7	684.2	1662.6	3248.8	6629.9	4437.1	668.3	281.8	259.1	294.1	19086.2 CMSDAY
Mean	1.2	16.3	12.6	22.1	53.6	108.3	213.9	147.9	21.6	9.1	9.3	9.5	52.3 CMS
Max	6.9	36.9	35.5	117.2	77.1	423.6	664.0	395.3	43.4	17.4	12.4	12.4	664.0 CMS
Min	0.5	4.7	6.4	5.3	31.1	57.4	67.2	37.3	11.8	2.8	7.3	7.1	0.5 CMS
Runoff	3.15	43.64	32.72	59.11	143.65	280.70	572.82	383.37	57.74	24.35	22.39	25.41	1649.05 MCM

Momentary Peak 724.00 CMS, at 9.13 M (A.D), at 18.00 Hours, on Oct 1, 1996

Runoff Yield 12.72 Liters/Second/Square KM, Momentary Peak Yield 176.113 Liters/Second/Square KM

WATER YEAR 1996

WEST COAST-GULF BASIN

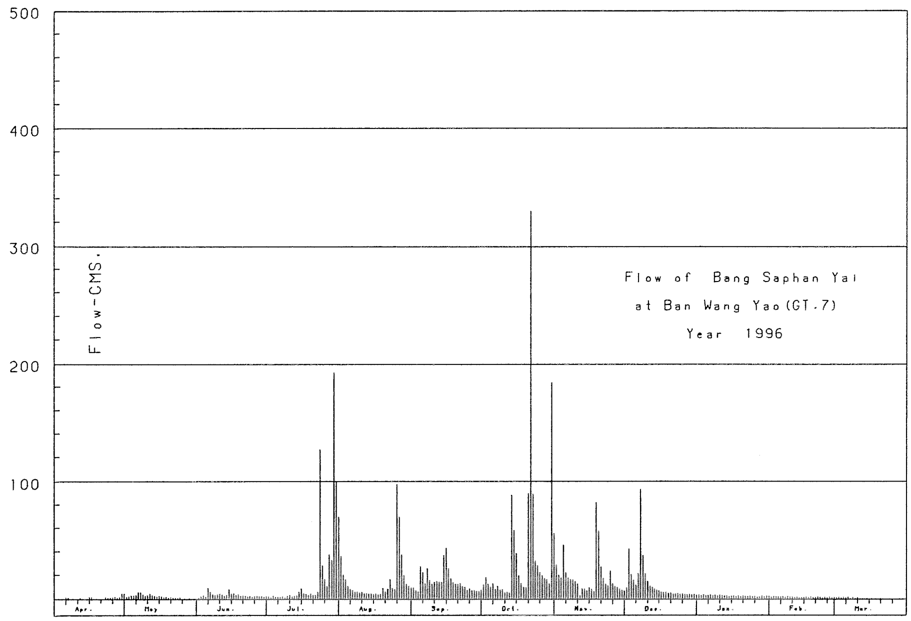
Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)

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, Amphoe Bang Saphan, Prachuap Khiri Khan.
Drainage Area	346 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	+8.084 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.26	1.41	1.32	1.39	2.25	1.69	1.75	2.12	1.69	1.48	1.41	1.37	
2	1.24	1.39	1.43	1.38	1.96	1.64	1.92	1.96	2.35	1.48	1.41	1.37	
3	1.23	1.46	1.44	1.43	1.86	1.60	1.78	1.90	1.97	1.48	1.43	1.37	
4	1.25	1.44	1.42	1.41	1.73	2.09	1.70	2.41	1.85	1.47	1.41	1.37	
5	1.38	1.47	1.69	1.40	1.67	1.99	1.79	2.00	1.76	1.47	1.41	1.37	
6	1.33	1.59	1.59	1.40	1.63	1.79	1.67	1.90	1.98	1.47	1.40	1.37	
7	1.30	1.60	1.50	1.39	1.61	2.07	1.72	1.88	2.97	1.46	1.40	1.36	
8	1.28	1.48	1.45	1.38	1.60	1.85	1.65	1.86	2.27	1.46	1.41	1.36	
9	1.26	1.45	1.51	1.42	1.58	1.78	1.65	1.84	1.97	1.46	1.40	1.35	
10	1.25	1.45	1.51	1.46	1.59	1.81	1.59	1.77	1.83	1.46	1.39	1.35	
11	1.37	1.54	1.48	1.42	1.56	1.84	1.59	1.47	1.74	1.45	1.39	1.34	
12	1.33	1.47	1.46	1.42	1.54	1.81	1.58	1.68	1.71	1.45	1.38	1.33	
13	1.28	1.42	1.46	1.46	1.54	1.82	2.92	1.66	1.66	1.44	1.38	1.32	
14	1.26	1.42	1.67	1.59	1.53	2.26	2.56	1.64	1.65	1.44	1.38	1.31	
15	1.41	1.42	1.54	1.68	1.52	2.37	2.30	1.69	1.62	1.44	1.38	1.33	
16	1.36	1.40	1.52	1.55	1.51	2.06	1.95	1.66	1.60	1.43	1.38	1.33	
17	1.32	1.39	1.49	1.51	1.50	1.90	1.78	1.62	1.59	1.43	1.38	1.32	
18	1.28	1.38	1.48	1.49	1.50	1.80	1.71	2.84	1.58	1.43	1.38	1.31	
19	1.27	1.37	1.45	1.51	1.69	1.78	1.69	2.56	1.56	1.43	1.38	1.31	
20	1.26	1.37	1.43	1.48	1.60	1.76	2.93	2.10	1.55	1.42	1.39	1.31	
21	1.25	1.37	1.43	1.46	1.66	1.78	4.93	1.89	1.54	1.42	1.39	1.30	
22	1.38	1.36	1.42	1.61	1.88	1.73	2.93	1.78	1.53	1.42	1.38	1.28	
23	1.35	1.35	1.41	3.33	1.68	1.70	2.18	1.73	1.53	1.42	1.37	1.24	
24	1.33	1.35	1.40	2.12	1.66	1.65	2.12	2.03	1.52	1.42	1.37	1.23	
25	1.40	1.33	1.41	1.87	3.02	1.67	1.99	1.79	1.51	1.41	1.37	1.23	
26	1.39	1.32	1.45	1.73	2.70	1.64	1.94	1.72	1.50	1.41	1.38	1.22	
27	1.36	1.30	1.43	2.27	2.28	1.64	1.90	1.71	1.50	1.41	1.38	1.20	
28	1.36	1.31	1.40	2.20	1.94	1.61	1.86	1.66	1.49	1.43	1.37	1.20	
29	1.54	1.32	1.41	3.90	1.78	1.62	1.79	1.65	1.49	1.42		1.20	
30	1.52	1.30	1.40	3.04	1.72	1.64	3.84	1.62	1.49	1.42		1.20	
31		1.30		2.70	1.70		2.53		1.49	1.42		1.20	
Mean	1.33	1.40	1.47	1.79	1.77	1.81	2.14	1.87	1.73	1.44	1.39	1.30	
Max	1.54	1.60	1.69	3.90	3.02	2.37	4.93	2.84	2.97	1.48	1.43	1.37	4.93
Min	1.23	1.30	1.32	1.38	1.50	1.60	1.58	1.47	1.49	1.41	1.37	1.20	1.20

Annual Max Momentary Gage Height 5.50 M (AD), at 13.00 Hours, on Oct 21, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.84 M (AD)
Left Bank Elevation 8.09 M (AD)
Right Bank Elevation 7.70 M (AD), Drainage Area 346 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.29	2.20	0.72	1.84	36.50	9.60	12.00	29.10	9.60	3.60	2.20	1.52	
2	0.24	1.84	2.60	1.68	21.00	7.60	19.00	21.00	42.75	3.60	2.20	1.52	
3	0.21	3.20	2.80	2.60	16.40	6.00	13.20	18.00	21.50	3.60	2.60	1.52	
4	0.27	2.80	2.40	2.20	11.20	27.50	10.00	46.75	16.00	3.40	2.20	1.52	
5	1.68	3.40	9.60	2.00	8.80	22.50	13.60	23.00	12.40	3.40	2.20	1.52	
6	0.88	5.80	5.80	2.00	7.20	13.60	8.80	18.00	22.00	3.40	2.00	1.52	
7	0.40	6.00	4.00	1.84	6.40	26.50	10.80	17.20	93.45	3.20	2.00	1.36	
8	0.35	3.60	3.00	1.68	6.00	16.00	8.00	16.40	37.70	3.20	2.20	1.36	
9	0.29	3.00	4.20	2.40	5.60	13.20	8.00	15.60	21.50	3.20	2.00	1.20	
10	0.27	3.00	4.20	3.20	5.80	14.40	5.80	12.80	15.20	3.20	1.84	1.20	
11	1.52	4.80	3.60	2.40	5.20	15.60	5.80	3.40	11.60	3.00	1.84	1.04	
12	0.88	3.40	3.20	2.40	4.80	14.40	5.60	9.20	10.40	3.00	1.68	0.88	
13	0.35	2.40	3.20	3.20	4.80	14.80	89.20	8.40	8.40	2.80	1.68	0.72	
14	0.29	2.40	8.80	5.80	4.60	37.10	58.60	7.60	8.00	2.80	1.68	0.56	
15	2.20	2.40	4.80	9.20	4.40	44.05	39.50	9.60	6.80	2.80	1.68	0.88	
16	1.36	2.00	4.40	5.00	4.20	26.00	20.50	8.40	6.00	2.60	1.68	0.88	
17	0.72	1.84	3.80	4.20	4.00	18.00	13.20	6.80	5.80	2.60	1.68	0.72	
18	0.35	1.68	3.60	3.80	4.00	14.00	10.40	82.40	5.60	2.60	1.68	0.56	
19	0.32	1.52	3.00	4.20	9.60	13.20	9.60	58.60	5.20	2.60	1.68	0.56	
20	0.29	1.52	2.60	3.60	6.00	12.40	90.05	28.00	5.00	2.40	1.84	0.56	
21	0.27	1.52	2.60	3.20	8.40	13.20	330.50	17.60	4.80	2.40	1.84	0.40	
22	1.68	1.36	2.40	6.40	17.20	11.20	90.05	13.20	4.60	2.40	1.68	0.35	
23	1.20	1.20	2.20	128.00	9.20	10.00	32.40	11.20	4.60	2.40	1.52	0.24	
24	0.88	1.20	2.00	29.10	8.40	8.00	29.10	24.50	4.40	2.40	1.52	0.21	
25	2.00	0.88	2.20	16.80	97.80	8.80	22.50	13.60	4.20	2.20	1.52	0.21	
26	1.84	0.72	3.00	11.20	70.50	7.60	20.00	10.80	4.00	2.20	1.68	0.19	
27	1.36	0.40	2.60	37.70	38.30	7.60	18.00	10.40	4.00	2.20	1.68	0.13	
28	1.36	0.56	2.00	33.50	20.00	6.40	16.40	8.40	3.80	2.60	1.52	0.13	
29	4.80	0.72	2.20	192.50	13.20	6.80	13.60	8.00	3.80	2.40		0.13	
30	4.40	0.40	2.00	99.60	10.80	7.60	185.00	6.80	3.80	2.40		0.13	
31		0.40		70.50	10.00		56.05		3.80	2.40		0.13	
Total	32.95	68.16	103.52	693.74	480.30	453.65	1265.25	564.75	410.70	87.00	51.52	23.85	4235.39 CMSDAY
Mean	1.10	2.20	3.45	22.38	15.49	15.12	40.81	18.83	13.25	2.81	1.84	0.77	11.60 CMS
Max	4.80	6.00	9.60	192.50	97.80	44.05	330.50	82.40	93.45	3.60	2.60	1.52	330.50 CMS
Min	0.21	0.40	0.72	1.68	4.00	6.00	5.60	3.40	3.80	2.20	1.52	0.13	0.13 CMS
Runoff	2.847	5.889	8.944	59.939	41.498	39.195	109.318	48.794	35.484	7.517	4.451	2.061	365.938 MCM

Momentary Peak 420.00 CMS, at 5.50 M (AD), at 13.00 Hours, on Oct 21, 1996

Runoff Yield 33.54 Liters/Second/Square KM, Momentary Peak Yield 1213.873 Liters/Second/Square KM

WATER YEAR 1996

WEST COAST-GULF BASIN

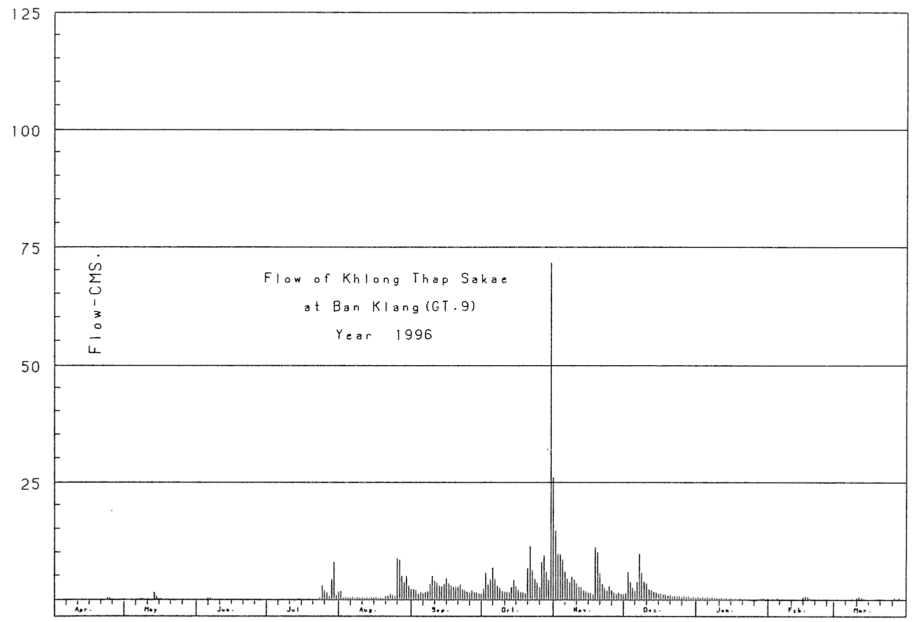
Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt.9)

Location	Lat. 11°-29′-39″ N., Long. 99°-36′-21″ E., on right bank at Ban Klang, 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	+5.141 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	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.39 m.(A.D.) and is included.
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.59	0.80	0.66	0.64	1.25	1.33	1.34	2.21	1.17	0.97	0.83	0.72	
2	0.59	0.75	0.71	0.63	0.96	1.29	1.66	1.93	1.67	0.97	0.82	0.69	
3	0.59	0.66	0.67	0.63	0.96	1.17	1.46	1.93	1.51	0.97	0.85	0.70	
4	0.72	0.76	0.82	0.63	0.95	1.22	1.56	1.86	1.37	0.96	0.88	0.72	
5	0.64	0.75	0.94	0.74	0.95	1.20	1.75	1.69	1.29	0.97	0.87	0.75	
6	0.59	0.74	0.85	0.79	0.95	1.21	1.55	1.56	1.50	0.95	0.82	0.74	
7	0.57	0.89	0.79	0.79	0.94	1.26	1.43	1.51	1.94	0.95	0.77	0.67	
8	0.54	0.82	0.74	0.74	0.94	1.47	1.35	1.60	1.66	0.96	0.77	0.66	
9	0.54	0.82	0.75	0.73	0.93	1.61	1.27	1.56	1.52	0.93	0.75	0.64	
10	0.53	0.80	0.74	0.71	0.93	1.53	1.26	1.47	1.47	0.91	0.73	0.97	
11	0.74	0.79	0.70	0.68	0.94	1.48	1.23	1.41	1.33	0.92	0.72	0.99	
12	0.64	0.76	0.77	0.71	0.94	1.43	1.23	1.39	1.29	0.91	0.71	0.98	
13	0.60	1.23	0.81	0.69	0.94	1.40	1.38	1.31	1.26	0.87	0.71	0.78	
14	0.57	1.01	0.70	0.84	0.94	1.47	1.55	1.25	1.21	0.86	0.70	0.71	
15	0.57	0.88	0.78	0.76	0.95	1.57	1.40	1.23	1.19	0.88	1.00	0.69	
16	0.55	0.82	0.77	0.77	0.95	1.48	1.31	1.20	1.17	0.87	1.02	0.67	
17	0.55	0.76	0.77	0.78	0.92	1.42	1.25	1.15	1.15	0.87	1.01	0.66	
18	0.51	0.74	0.77	0.76	0.90	1.40	1.21	2.01	1.13	0.87	0.87	0.77	
19	0.49	0.65	0.77	0.72	0.88	1.39	1.20	1.96	1.11	0.85	0.77	0.91	
20	0.52	0.73	0.79	0.71	1.05	1.41	1.73	1.66	1.10	0.84	0.74	0.91	
21	0.46	0.78	0.77	0.73	1.06	1.44	2.03	1.47	1.07	0.81	0.71	0.87	
22	0.61	0.73	0.76	0.74	1.17	1.34	1.70	1.37	1.05	0.80	0.69	0.75	
23	0.95	0.68	0.74	0.99	1.09	1.29	1.57	1.30	1.04	0.79	0.69	0.71	
24	0.87	0.66	0.75	1.44	1.07	1.25	1.49	1.41	1.04	0.79	0.68	0.68	
25	0.76	0.67	0.77	1.28	1.87	1.23	1.40	1.31	1.02	0.80	0.68	0.76	
26	0.74	0.63	0.72	1.20	1.86	1.28	1.82	1.21	1.04	0.80	0.69	0.87	
27	0.70	0.66	0.67	1.06	1.62	1.24	1.91	1.17	1.03	0.80	0.78	0.89	
28	0.70	0.79	0.69	1.56	1.49	1.21	1.69	1.21	1.01	0.89	0.76	0.88	
29	0.77	0.74	0.69	1.83	1.61	1.19	1.54	1.17	0.96	0.87		0.78	
30	0.81	0.72	0.67	1.08	1.43	1.15	4.06	1.14	0.97	0.86		0.73	
31		0.70		1.25	1.32		2.70		0.97	0.85		0.67	
Mean	0.63	0.77	0.75	0.89	1.12	1.35	1.61	1.49	1.23	0.88	0.79	0.77	
Max	0.95	1.23	0.94	1.83	1.87	1.61	4.06	2.21	1.94	0.97	1.02	0.99	4.06
Min	0.46	0.63	0.66	0.63	0.88	1.15	1.20	1.14	0.96	0.79	0.68	0.64	0.46

Annual Max Momentary Gage Height 4.65 M (AD), at 13.00 Hours, on Oct 30, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.40 M (AD)
Left Bank Elevation 4.38 M (AD)
Right Bank Elevation 4.80 M (AD), Drainage Area 120 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.20	0.06	0.04	1.80	2.31	2.38	14.90	1.35	0.61	0.26	0.12	
2	0.00	0.15	0.11	0.03	0.58	2.04	5.74	9.82	5.88	0.61	0.24	0.09	
3	0.00	0.06	0.07	0.03	0.58	1.35	3.40	9.82	3.91	0.61	0.30	0.10	
4	0.12	0.16	0.24	0.03	0.55	1.62	4.46	8.66	2.59	0.58	0.36	0.12	
5	0.04	0.15	0.52	0.14	0.55	1.50	7.00	6.16	2.04	0.61	0.34	0.15	
6	0.00	0.14	0.30	0.19	0.55	1.56	4.35	4.46	3.80	0.55	0.24	0.14	
7	0.00	0.38	0.19	0.19	0.52	1.86	3.10	3.91	10.00	0.55	0.17	0.07	
8	0.00	0.24	0.14	0.14	0.52	3.50	2.45	4.90	5.74	0.58	0.17	0.06	
9	0.00	0.24	0.15	0.13	0.49	5.04	1.92	4.46	4.02	0.49	0.15	0.04	
10	0.00	0.20	0.14	0.11	0.49	4.13	1.86	3.50	3.50	0.43	0.13	0.61	
11	0.14	0.19	0.10	0.08	0.52	3.60	1.68	2.90	2.31	0.46	0.12	0.67	
12	0.04	0.16	0.17	0.11	0.52	3.10	1.68	2.73	2.04	0.43	0.11	0.64	
13	0.00	1.68	0.22	0.09	0.52	2.80	2.66	2.17	1.86	0.34	0.11	0.18	
14	0.00	0.73	0.10	0.28	0.52	3.50	4.35	1.80	1.56	0.32	0.10	0.11	
15	0.00	0.36	0.18	0.16	0.55	4.57	2.80	1.68	1.45	0.36	0.70	0.09	
16	0.00	0.24	0.17	0.17	0.55	3.60	2.17	1.50	1.35	0.34	0.76	0.07	
17	0.00	0.16	0.17	0.18	0.46	3.00	1.80	1.25	1.25	0.34	0.73	0.06	
18	0.00	0.14	0.17	0.16	0.40	2.80	1.56	11.23	1.15	0.34	0.34	0.17	
19	0.00	0.05	0.17	0.12	0.36	2.73	1.50	10.35	1.05	0.30	0.17	0.43	
20	0.00	0.13	0.19	0.11	0.85	2.90	6.72	5.74	1.00	0.28	0.14	0.43	
21	0.00	0.18	0.17	0.13	0.88	3.20	11.58	3.50	0.91	0.22	0.11	0.34	
22	0.01	0.13	0.16	0.14	1.35	2.38	6.30	2.59	0.85	0.20	0.09	0.15	
23	0.55	0.08	0.14	0.67	0.97	2.04	4.57	2.10	0.82	0.19	0.09	0.11	
24	0.34	0.06	0.15	3.20	0.91	1.80	3.70	2.90	0.82	0.19	0.08	0.08	
25	0.16	0.07	0.17	1.98	8.82	1.68	2.80	2.17	0.76	0.20	0.08	0.16	
26	0.14	0.03	0.12	1.50	8.66	1.98	8.02	1.56	0.82	0.20	0.09	0.34	
27	0.10	0.06	0.07	0.88	5.18	1.74	9.48	1.35	0.79	0.20	0.18	0.38	
28	0.10	0.19	0.09	4.46	3.70	1.56	6.16	1.56	0.73	0.38	0.16	0.36	
29	0.17	0.14	0.09	8.18	5.04	1.45	4.24	1.35	0.58	0.34		0.18	
30	0.22	0.12	0.07	0.94	3.10	1.25	71.86	1.20	0.61	0.32		0.13	
31		0.10		1.80	2.24		26.00		0.61	0.30		0.07	
Total	2.13	6.92	4.79	26.37	52.73	76.59	218.29	132.22	66.15	11.87	6.52	6.65	611.23 CMSDAY
Mean	0.07	0.22	0.16	0.85	1.70	2.55	7.04	4.41	2.13	0.38	0.23	0.21	1.67 CMS
Max	0.55	1.68	0.52	8.18	8.82	5.04	71.86	14.90	10.00	0.61	0.76	0.67	71.86 CMS
Min	0.00	0.03	0.06	0.03	0.36	1.25	1.50	1.20	0.58	0.19	0.08	0.04	0.00 CMS
Runoff	0.184	0.598	0.414	2.278	4.556	6.617	18.860	11.424	5.715	1.026	0.563	0.575	52.810 MCM

Momentary Peak 97.85 CMS, at 4.65 M (AD), at 13.00 Hours, on Oct 30, 1996

Runoff Yield 13.96 Liters/Second/Square KM, Momentary Peak Yield 815.417 Liters/Second/Square KM

WATER YEAR 1996

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, Amphoe Bang Saphan, Prachuap Khiri Khan.

Drainage Area — 112 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 — +5.285 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 — Overbank flow starts at elevation +2.92 m.(A.D.) and is included.

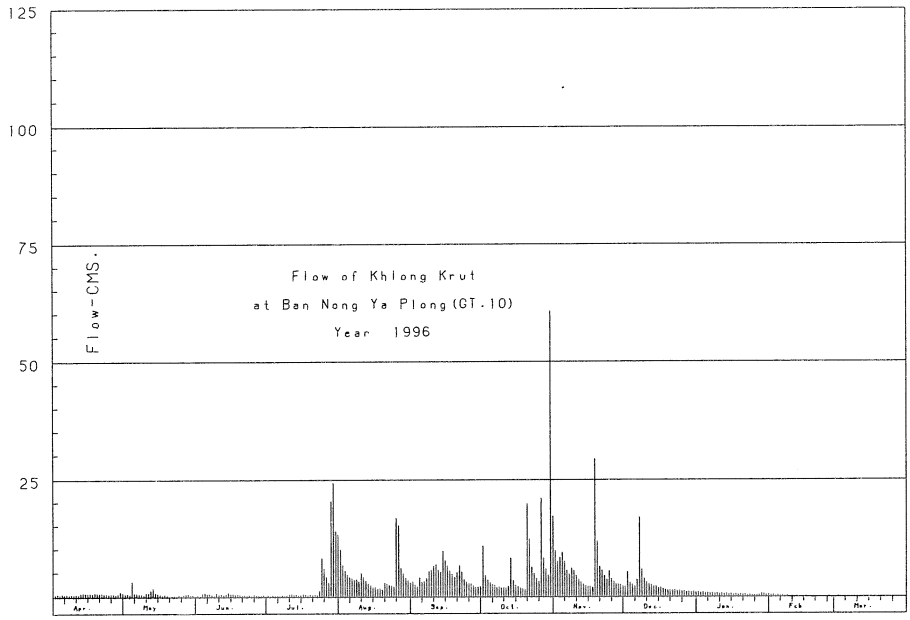
General Description — Records fair. Stage-discharge relation defined by 28 discharge measurements made in 1996.

Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.70	0.37	0.40	10.20	3.40	10.95	9.90	2.22	1.08	0.55	0.25	
2	0.55	0.70	0.37	0.40	6.74	2.60	4.74	7.56	5.46	1.02	0.50	0.25	
3	0.55	0.65	0.70	0.40	5.70	2.31	3.62	8.55	3.20	1.02	0.45	0.22	
4	0.55	3.30	1.02	0.37	4.74	4.06	3.20	9.60	2.70	0.96	0.45	0.19	
5	0.55	0.90	0.75	0.37	4.28	3.30	2.80	7.56	2.40	0.90	0.45	0.16	
6	0.55	0.75	0.65	0.37	3.95	3.30	2.50	5.70	3.62	0.90	0.40	0.16	
7	0.55	0.65	0.50	0.37	3.73	4.06	2.13	4.98	17.12	0.90	0.37	0.16	
8	0.55	0.55	0.45	0.40	3.73	5.46	2.13	6.22	5.83	0.85	0.34	0.16	
9	0.55	0.50	0.80	0.40	3.40	5.83	2.04	5.58	4.06	0.80	0.31	0.16	
10	0.55	0.80	0.65	0.70	5.22	6.61	1.95	4.62	3.20	0.80	0.28	0.16	
11	0.55	0.96	0.60	0.60	4.28	6.87	1.86	3.84	2.90	0.80	0.25	0.13	
12	0.90	1.50	0.55	0.60	3.40	5.83	2.40	3.20	2.60	0.80	0.25	0.13	
13	0.85	1.86	0.60	0.55	3.00	5.22	8.40	2.80	2.40	0.75	0.22	0.13	
14	0.80	0.96	1.02	0.50	2.50	9.90	3.62	2.40	2.31	0.70	0.22	0.13	
15	0.80	0.70	0.70	0.50	2.13	7.84	2.50	2.31	2.04	0.70	0.22	0.13	
16	0.75	0.55	0.65	0.70	2.04	6.61	2.22	2.22	2.04	0.65	0.22	0.13	
17	0.80	0.50	0.60	0.50	1.86	5.70	2.04	2.13	1.86	0.65	0.22	0.13	
18	0.85	0.50	0.55	0.50	1.77	4.86	1.77	29.55	1.59	0.65	0.19	0.10	
19	0.90	0.45	0.50	0.50	1.68	4.28	1.68	11.88	1.50	0.65	0.19	0.10	
20	0.80	0.45	0.45	0.50	3.00	5.22	19.91	6.61	1.50	0.65	0.19	0.10	
21	0.75	0.40	0.45	0.50	2.80	6.74	12.36	5.70	1.50	0.60	0.19	0.10	
22	0.70	0.40	0.45	0.50	2.60	5.46	6.48	4.62	1.50	0.55	0.19	0.04	
23	0.65	0.40	0.40	1.32	2.40	3.84	4.98	3.73	1.44	0.50	0.19	0.10	
24	0.65	0.37	0.40	8.40	2.31	3.20	4.06	5.70	1.38	0.50	0.19	0.10	
25	0.60	0.37	0.50	5.96	16.76	3.00	3.30	3.84	1.32	0.50	0.16	0.09	
26	0.60	0.50	0.45	4.28	15.32	2.80	21.10	3.30	1.26	0.50	0.16	0.09	
27	0.60	0.70	0.45	3.10	6.22	2.50	8.40	2.90	1.20	0.45	0.22	0.09	
28	0.60	0.60	0.40	20.50	4.98	2.04	5.96	2.80	1.14	0.90	0.19	0.09	
29	1.14	0.50	0.40	24.31	4.17	2.22	4.74	2.60	1.14	0.65		0.09	
30	0.80	0.40	0.40	14.12	3.51	2.22	61.00	2.40	1.14	0.60		0.09	
31		0.37		13.32	3.00		17.30		1.08	0.60		0.09	
Total	20.59	22.94	16.78	105.94	141.42	137.28	232.14	174.80	84.65	22.58	7.76	4.05	970.93 CMSDA
Mean	0.69	0.74	0.56	3.42	4.56	4.58	7.49	5.83	2.73	0.73	0.28	0.13	2.66 CMS
Max	1.14	3.30	1.02	24.31	16.76	9.90	61.00	29.55	17.12	1.08	0.55	0.25	61.00 CMS
Min	0.55	0.37	0.37	0.37	1.68	2.04	1.68	2.13	1.08	0.45	0.16	0.04	0.04 CMS
Runoff	1.779	1.982	1.450	9.153	12.219	11.861	20.057	15.103	7.314	1.951	0.670	0.350	83.888 MCM

Momentary Peak 80.18 CMS, at 3.08 M (AD), at 9.00 Hours, on Oct 30, 1996

Runoff Yield 23.75 Liters/Second/Square KM, Momentary Peak Yield 715.893 Liters/Second/Square KM



Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.67	-0.64	-0.71	-0.70	0.22	-0.30	0.27	0.20	-0.42	-0.57	-0.67	-0.75	
2	-0.67	-0.64	-0.71	-0.70	-0.02	-0.38	-0.18	0.04	-0.12	-0.58	-0.68	-0.75	
3	-0.67	-0.65	-0.64	-0.70	-0.10	-0.41	-0.28	0.11	-0.32	-0.58	-0.69	-0.76	
4	-0.67	-0.31	-0.58	-0.71	-0.18	-0.24	-0.32	0.18	-0.37	-0.59	-0.69	-0.77	
5	-0.67	-0.60	-0.63	-0.71	-0.22	-0.31	-0.36	0.04	-0.40	-0.60	-0.69	-0.78	
6	-0.67	-0.63	-0.65	-0.71	-0.25	-0.31	-0.39	-0.10	-0.28	-0.60	-0.70	-0.78	
7	-0.67	-0.65	-0.68	-0.71	-0.27	-0.24	-0.43	-0.16	0.64	-0.60	-0.71	-0.78	
8	-0.67	-0.67	-0.69	-0.70	-0.27	-0.12	-0.43	-0.06	-0.09	-0.61	-0.72	-0.78	
9	-0.67	-0.68	-0.62	-0.70	-0.30	-0.09	-0.44	-0.11	-0.24	-0.62	-0.73	-0.78	
10	-0.67	-0.62	-0.65	-0.64	-0.14	-0.03	-0.45	-0.19	-0.32	-0.62	-0.74	-0.78	
11	-0.67	-0.59	-0.66	-0.66	-0.22	-0.01	-0.46	-0.26	-0.35	-0.62	-0.75	-0.79	
12	-0.60	-0.50	-0.67	-0.66	-0.30	-0.09	-0.40	-0.32	-0.38	-0.62	-0.75	-0.79	
13	-0.61	-0.46	-0.66	-0.67	-0.34	-0.14	0.10	-0.36	-0.40	-0.63	-0.76	-0.79	
14	-0.62	-0.59	-0.58	-0.68	-0.39	0.20	-0.28	-0.40	-0.41	-0.64	-0.76	-0.79	
15	-0.62	-0.64	-0.64	-0.68	-0.43	0.06	-0.39	-0.41	-0.44	-0.64	-0.76	-0.79	
16	-0.63	-0.67	-0.65	-0.64	-0.44	-0.03	-0.42	-0.42	-0.44	-0.65	-0.76	-0.79	
17	-0.62	-0.68	-0.66	-0.68	-0.46	-0.10	-0.44	-0.43	-0.46	-0.65	-0.76	-0.79	
18	-0.61	-0.68	-0.67	-0.68	-0.47	-0.17	-0.47	1.25	-0.49	-0.65	-0.77	-0.80	
19	-0.60	-0.69	-0.68	-0.68	-0.48	-0.22	-0.48	0.33	-0.50	-0.65	-0.77	-0.80	
20	-0.62	-0.69	-0.69	-0.68	-0.34	-0.14	0.79	-0.03	-0.50	-0.65	-0.77	-0.80	
21	-0.63	-0.70	-0.69	-0.68	-0.36	-0.02	0.36	-0.10	-0.50	-0.66	-0.77	-0.80	
22	-0.64	-0.70	-0.69	-0.68	-0.38	-0.12	-0.04	-0.19	-0.50	-0.67	-0.77	-0.86	
23	-0.65	-0.70	-0.70	-0.53	-0.40	-0.26	-0.16	-0.27	-0.51	-0.68	-0.77	-0.80	
24	-0.65	-0.71	-0.70	0.10	-0.41	-0.32	-0.24	-0.10	-0.52	-0.68	-0.77	-0.80	
25	-0.66	-0.71	-0.68	-0.08	0.62	-0.34	-0.31	-0.26	-0.53	-0.68	-0.78	-0.81	
26	-0.66	-0.68	-0.69	-0.22	0.54	-0.36	0.85	-0.31	-0.54	-0.68	-0.78	-0.81	
27	-0.66	-0.64	-0.69	-0.33	-0.06	-0.39	0.10	-0.35	-0.55	-0.69	-0.76	-0.81	
28	-0.66	-0.66	-0.70	0.82	-0.16	-0.44	-0.08	-0.36	-0.56	-0.60	-0.77	-0.81	
29	-0.56	-0.68	-0.70	1.01	-0.23	-0.42	-0.18	-0.38	-0.56	-0.65		-0.81	
30	-0.62	-0.70	-0.70	0.47	-0.29	-0.42	2.45	-0.40	-0.56	-0.66		-0.81	
31		-0.71		0.42	-0.34		0.65		-0.57	-0.66		-0.81	
Mean	-0.64	-0.64	-0.67	-0.43	-0.22	-0.21	-0.07	-0.13	-0.39	-0.63	-0.74	-0.79	
Max	-0.56	-0.31	-0.58	1.01	0.62	0.20	2.45	1.25	0.64	-0.57	-0.67	-0.75	2.45
Min	-0.67	-0.71	-0.71	-0.71	-0.48	-0.44	-0.48	-0.43	-0.57	-0.69	-0.78	-0.86	-0.86

Annual Max Momentary Gage Height 3.08 M (AD), at 9.00 Hours, on Oct 30, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -1.12 M (AD)
Left Bank Elevation 2.91 M (AD)
Right Bank Elevation 3.09 M (AD), Drainage Area 112 Square Kilometers

WATER YEAR 1996

WEST COAST-GULF BASIN

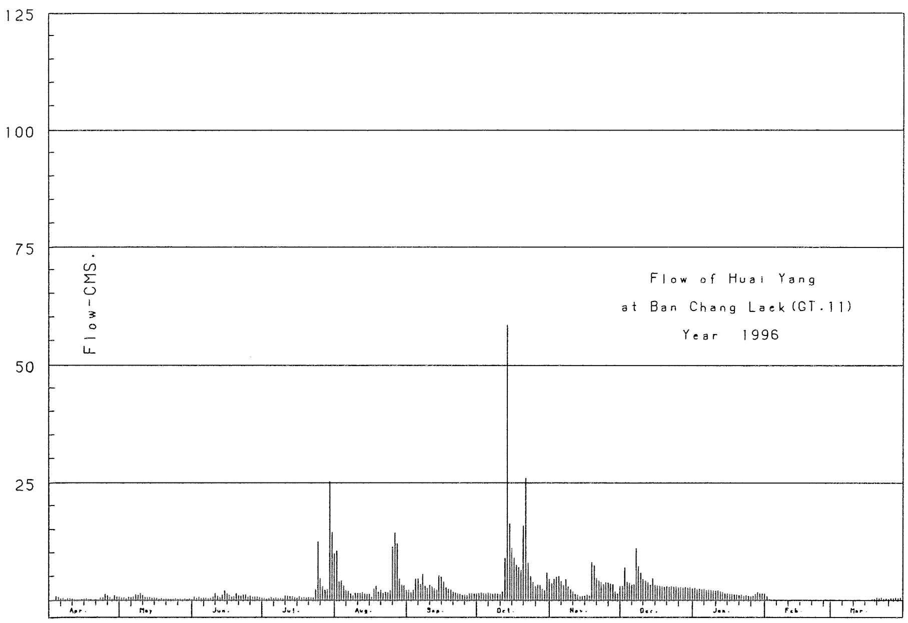
Huai Yang at Ban Chang Laek, Prachuap Khiri Khan (Gt.11)

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, 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	+9.318 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	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.52	0.54	0.49	1.30	0.74	0.65	1.18	1.15	1.12	1.00	0.90	
2	0.38	0.51	0.51	0.48	0.93	0.69	0.69	1.22	1.32	1.11	0.90	0.90	
3	0.56	0.50	0.53	0.47	0.94	0.74	0.65	1.24	1.20	1.11	0.90	0.88	
4	0.54	0.54	0.51	0.54	0.85	0.97	0.65	1.25	1.18	1.11	0.90	0.88	
5	0.48	0.52	0.51	0.50	0.74	0.98	0.68	1.20	1.16	1.11	0.90	0.88	
6	0.47	0.54	0.49	0.50	0.71	0.88	0.64	1.16	1.17	1.10	0.88	0.87	
7	0.45	0.62	0.48	0.49	0.65	1.04	0.64	1.22	1.46	1.10	0.88	0.87	
8	0.47	0.59	0.48	0.48	0.57	0.84	0.64	1.14	1.33	1.10	0.88	0.85	
9	0.50	0.67	0.55	0.48	0.67	0.78	0.65	1.11	1.28	1.09	0.88	0.85	
10	0.45	0.59	0.65	0.57	0.65	0.85	0.63	1.07	1.22	1.09	0.87	0.85	
11	0.44	0.54	0.57	0.57	0.67	0.82	0.70	1.04	1.21	1.09	0.87	0.85	
12	0.44	0.53	0.53	0.57	0.68	0.77	1.23	1.02	1.19	1.08	0.87	0.84	
13	0.43	0.52	0.61	0.55	0.65	0.75	2.54	1.00	1.16	1.06	0.87	0.84	
14	0.43	0.51	0.74	0.54	0.62	1.02	1.52	0.99	1.23	1.05	0.86	0.84	
15	0.48	0.50	0.67	0.51	0.64	1.01	1.32	1.01	1.16	1.04	0.86	0.83	
16	0.47	0.48	0.60	0.55	0.52	0.92	1.23	1.02	1.15	1.04	0.87	0.85	
17	0.45	0.47	0.55	0.52	0.78	0.81	1.16	1.01	1.15	1.03	0.87	0.88	
18	0.44	0.47	0.55	0.52	0.83	0.76	1.13	1.36	1.14	1.03	0.88	0.90	
19	0.43	0.47	0.66	0.52	0.70	0.76	1.10	1.34	1.14	1.02	0.88	0.93	
20	0.43	0.46	0.57	0.51	0.74	0.69	1.50	1.23	1.14	1.02	0.88	0.95	
21	0.43	0.47	0.57	0.50	0.65	0.67	1.80	1.21	1.14	1.02	0.89	0.95	
22	0.50	0.46	0.62	0.52	0.70	0.66	1.36	1.19	1.14	1.01	0.89	0.95	
23	0.53	0.46	0.61	0.76	0.67	0.63	1.25	1.17	1.14	1.01	0.88	0.93	
24	0.63	0.46	0.55	1.38	0.74	0.61	1.19	1.19	1.14	1.01	0.87	0.92	
25	0.59	0.46	0.57	0.98	1.33	0.60	1.15	1.19	1.13	1.00	0.87	0.92	
26	0.52	0.45	0.55	0.82	1.45	0.60	1.16	1.17	1.13	1.00	0.90	0.93	
27	0.47	0.45	0.55	0.75	1.36	0.66	1.16	1.17	1.13	1.04	0.90	0.94	
28	0.58	0.45	0.54	0.75	0.97	0.65	1.11	1.07	1.13	1.06	0.90	0.95	
29	0.55	0.45	0.53	1.78	0.86	0.65	1.10	1.05	1.13	1.05		0.94	
30	0.53	0.45	0.49	1.45	0.84	0.64	1.28	1.14	1.13	1.04		0.95	
31		0.45		1.27	0.75		1.22		1.12	1.04		0.96	
Mean	0.48	0.50	0.56	0.69	0.81	0.77	1.09	1.15	1.18	1.06	0.89	0.90	
Max	0.63	0.67	0.74	1.78	1.45	1.04	2.54	1.36	1.46	1.12	1.00	0.96	2.54
Min	0.37	0.45	0.48	0.47	0.52	0.60	0.63	0.99	1.12	1.00	0.86	0.83	0.37

Annual Max Momentary Gage Height	2.70 M (A.D), at 18.00 Hours, on Oct 12, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed -0.30 M (A.D)
Left Bank Elevation	7.87 M (A.D)
Right Bank Elevation	8.96 M (A.D), Drainage Area 58 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.72	0.84	0.56	10.70	2.26	1.55	3.74	3.20	2.66	1.00	0.30	
2	0.16	0.66	0.66	0.52	4.16	1.83	1.83	4.58	7.06	2.48	0.30	0.30	
3	0.96	0.60	0.78	0.48	4.28	2.26	1.55	5.06	4.10	2.48	0.30	0.24	
4	0.84	0.84	0.66	0.84	3.30	4.64	1.55	5.30	3.74	2.48	0.30	0.24	
5	0.52	0.72	0.66	0.60	2.26	4.76	1.76	4.10	3.38	2.48	0.30	0.24	
6	0.48	0.84	0.56	0.60	1.99	3.60	1.48	3.38	3.56	2.30	0.24	0.21	
7	0.40	1.34	0.52	0.56	1.55	5.60	1.48	4.58	11.28	2.30	0.24	0.21	
8	0.48	1.14	0.52	0.52	1.02	3.20	1.48	3.02	7.34	2.30	0.24	0.15	
9	0.60	1.69	0.90	0.52	1.69	2.62	1.55	2.48	6.02	2.17	0.24	0.15	
10	0.40	1.14	1.55	1.02	1.55	3.30	1.41	1.91	4.58	2.17	0.21	0.15	
11	0.36	0.84	1.02	1.02	1.69	3.00	1.90	1.52	4.34	2.17	0.21	0.15	
12	0.36	0.78	0.78	1.02	1.76	2.53	9.16	1.26	3.92	2.04	0.21	0.12	
13	0.32	0.72	1.27	0.90	1.55	2.35	58.66	1.00	3.38	1.78	0.21	0.12	
14	0.32	0.66	2.26	0.84	1.34	5.30	16.52	0.93	4.82	1.65	0.18	0.12	
15	0.52	0.60	1.69	0.66	1.48	5.15	11.20	1.13	3.38	1.52	0.18	0.09	
16	0.48	0.52	1.20	0.90	0.72	4.04	9.16	1.26	3.20	1.52	0.21	0.15	
17	0.40	0.48	0.90	0.72	2.62	2.90	7.70	1.13	3.20	1.39	0.21	0.24	
18	0.36	0.48	0.90	0.72	3.10	2.44	7.10	8.18	3.02	1.39	0.24	0.30	
19	0.32	0.48	1.62	0.72	1.90	2.44	6.50	7.62	3.02	1.26	0.24	0.51	
20	0.32	0.44	1.02	0.66	2.26	1.83	15.90	4.82	3.02	1.26	0.24	0.65	
21	0.32	0.48	1.02	0.60	1.55	1.69	26.20	4.34	3.02	1.26	0.27	0.65	
22	0.60	0.44	1.34	0.72	1.90	1.62	8.18	3.92	3.02	1.13	0.27	0.65	
23	0.78	0.44	1.27	2.44	1.69	1.41	5.30	3.56	3.02	1.13	0.24	0.51	
24	1.41	0.44	0.90	12.70	2.26	1.27	3.92	3.92	3.02	1.13	0.21	0.44	
25	1.14	0.44	1.02	4.76	11.45	1.20	3.20	3.92	2.84	1.00	0.21	0.44	
26	0.72	0.40	0.90	3.00	14.55	1.20	3.38	3.56	2.84	1.00	0.30	0.51	
27	0.48	0.40	0.90	2.35	12.20	1.62	3.38	3.56	2.84	1.52	0.30	0.58	
28	1.08	0.40	0.84	2.35	4.64	1.55	2.48	1.91	2.84	1.78	0.30	0.65	
29	0.90	0.40	0.78	25.46	3.40	1.55	2.30	1.65	2.84	1.65		0.58	
30	0.78	0.40	0.56	14.55	3.20	1.48	6.02	3.02	2.84	1.52		0.65	
31		0.40		10.04	2.35		4.58		2.66	1.52		0.72	
Total	16.95	20.33	29.84	93.35	110.11	80.64	228.38	100.36	12[illegible]4	54.44	7.60	11.02	874.36 CMSDAY
Mean	0.56	0.66	0.99	3.01	3.55	2.69	7.37	3.35	3.91	1.76	0.27	0.36	2.40 CMS
Max	1.41	1.69	2.26	25.46	14.55	5.60	58.66	8.18	11.28	2.66	1.00	0.72	58.66 CMS
Min	0.14	0.40	0.52	0.48	0.72	1.20	1.41	0.93	2.66	1.00	0.18	0.09	0.09 CMS
Runoff	1.464	1.757	2.578	8.065	9.514	6.967	19.732	8.671	10.484	4.704	0.657	0.952	75.545 MCM

Momentary Peak 66.70 CMS, at 2.70 M (A.D), at 18.00 Hours, on Oct 12, 1996

Runoff Yield 41.30 Liters/Second/Square KM, Momentary Peak Yield 1150.000 Liters/Second/Square KM

WATER YEAR 1996

WEST COAST-GULF BASIN

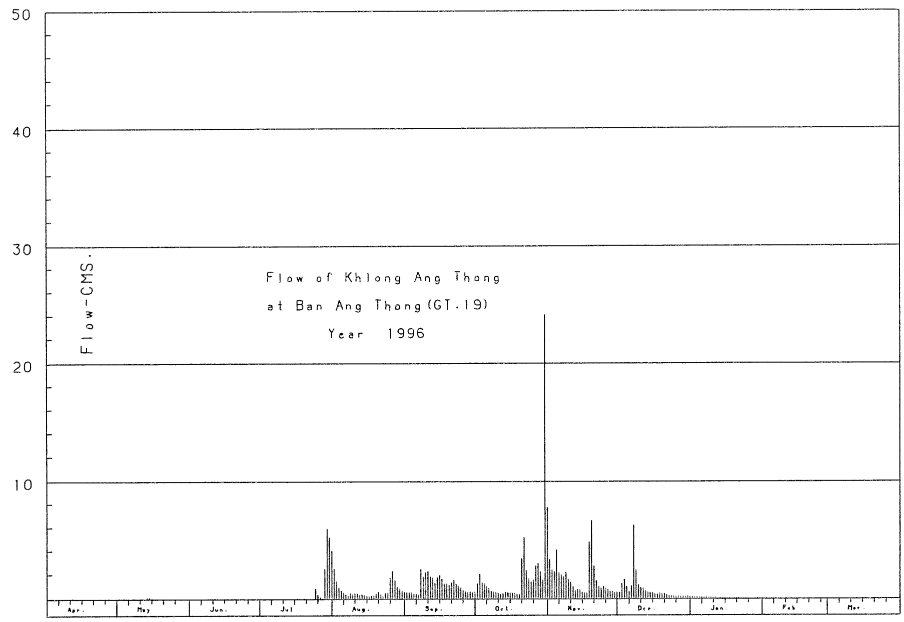
Khlong Ang Thong at Ban Ang Thong, Prachuap Khiri Khan (Gt.19)

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, 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 - 1988, 1993 to date.
Rated by Float	-
Rated by Current Meter	1987 - 1988, 1993 to date.
Stability of Channel Regimes	Rather unstable by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.78	0.97	1.12	0.96	1.68	1.48	1.56	1.74	1.47	1.36	1.27	1.21	
2	0.78	0.97	1.11	0.91	1.58	1.47	1.64	1.67	1.56	1.35	1.26	1.20	
3	0.77	0.97	1.08	0.89	1.53	1.47	1.57	1.66	1.60	1.35	1.26	1.20	
4	0.77	0.97	1.07	0.87	1.50	1.45	1.56	1.80	1.54	1.34	1.26	1.20	
5	0.77	0.97	1.06	0.86	1.47	1.44	1.54	1.65	1.49	1.33	1.25	1.20	
6	0.77	0.97	1.06	0.85	1.43	1.42	1.52	1.63	1.54	1.33	1.25	1.20	
7	0.76	0.99	1.05	0.84	1.41	1.68	1.50	1.62	1.96	1.32	1.25	1.20	
8	0.76	0.99	1.04	0.84	1.45	1.62	1.48	1.65	1.67	1.32	1.25	1.20	
9	0.76	0.99	1.04	0.86	1.44	1.65	1.47	1.60	1.55	1.32	1.24	1.20	
10	0.76	1.00	1.04	0.86	1.45	1.66	1.45	1.57	1.53	1.31	1.24	1.20	
11	1.31	1.00	1.04	0.87	1.45	1.62	1.44	1.54	1.52	1.30	1.24	1.20	
12	1.22	1.06	1.04	0.87	1.43	1.61	1.45	1.50	1.50	1.29	1.24	1.20	
13	1.14	1.34	1.04	0.87	1.44	1.57	1.47	1.51	1.47	1.29	1.23	1.20	
14	1.13	1.32	1.04	0.97	1.42	1.61	1.47	1.51	1.47	1.29	1.23	1.20	
15	1.12	1.28	1.05	0.98	1.41	1.63	1.46	1.48	1.46	1.29	1.22	1.20	
16	1.12	1.25	1.05	0.99	1.37	1.60	1.46	1.46	1.45	1.28	1.22	1.20	
17	1.11	1.23	1.05	0.99	1.41	1.56	1.45	1.46	1.44	1.28	1.22	1.20	
18	1.11	1.21	1.04	0.98	1.41	1.56	1.44	1.85	1.45	1.28	1.22	1.20	
19	1.09	1.18	1.04	0.98	1.45	1.55	1.43	1.99	1.44	1.28	1.22	1.19	
20	1.07	1.17	1.03	0.98	1.48	1.57	1.75	1.70	1.44	1.28	1.22	1.19	
21	1.05	1.16	1.02	0.97	1.43	1.59	1.88	1.59	1.43	1.28	1.22	1.19	
22	1.05	1.15	1.01	0.99	1.40	1.56	1.67	1.54	1.41	1.27	1.22	1.19	
23	1.05	1.15	1.01	1.09	1.46	1.54	1.60	1.52	1.40	1.27	1.22	1.19	
24	1.04	1.15	1.01	1.52	1.46	1.53	1.58	1.54	1.40	1.27	1.22	1.19	
25	1.04	1.15	1.01	1.42	1.61	1.50	1.59	1.52	1.38	1.27	1.22	1.19	
26	1.02	1.15	1.01	1.35	1.67	1.49	1.70	1.51	1.38	1.27	1.22	1.19	
27	1.01	1.15	1.00	1.29	1.59	1.48	1.72	1.50	1.38	1.26	1.22	1.19	
28	1.00	1.15	1.00	1.68	1.53	1.48	1.66	1.48	1.38	1.29	1.22	1.19	
29	0.99	1.14	1.00	1.94	1.52	1.47	1.59	1.47	1.38	1.28		1.19	
30	0.98	1.14	1.00	1.88	1.49	1.48	3.08	1.47	1.37	1.28		1.19	
31		1.14		1.80	1.47		2.07		1.37	1.27		1.19	
Mean	0.98	1.11	1.04	1.10	1.48	1.54	1.62	1.59	1.48	1.30	1.23	1.20	
Max	1.31	1.34	1.12	1.94	1.68	1.68	3.08	1.99	1.96	1.36	1.27	1.21	3.08
Min	0.76	0.97	1.00	0.84	1.37	1.42	1.43	1.46	1.37	1.26	1.22	1.19	0.76

Annual Max Momentary Gage Height 3.53 M (AD), at 15.00 Hours, on Oct 30, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.70 M (AD)
Left Bank Elevation 3.70 M (AD)
Right Bank Elevation 4.03 M (AD), Drainage Area 56 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	2.58	0.61	1.30	3.34	0.57	0.19	0.07	0.01		
2	0.00	0.00	0.00	0.00	1.50	0.57	2.14	2.47	1.30	0.18	0.06	0.00		
3	0.00	0.00	0.00	0.00	1.00	0.57	1.40	2.36	1.70	0.18	0.06	0.00		
4	0.00	0.00	0.00	0.00	0.70	0.48	1.30	4.15	1.10	0.16	0.06	0.00		
5	0.00	0.00	0.00	0.00	0.57	0.43	1.10	2.25	0.66	0.15	0.05	0.00		
6	0.00	0.00	0.00	0.00	0.38	0.34	0.90	2.03	1.10	0.15	0.05	0.00		
7	0.00	0.00	0.00	0.00	0.29	2.58	0.70	1.92	6.31	0.13	0.05	0.00		
8	0.00	0.00	0.00	0.00	0.48	1.92	0.61	2.25	2.47	0.13	0.05	0.00		
9	0.00	0.00	0.00	0.00	0.43	2.25	0.57	1.70	1.20	0.13	0.04	0.00		
10	0.00	0.00	0.00	0.00	0.48	2.36	0.48	1.40	1.00	0.11	0.04	0.00		
11	0.11	0.00	0.00	0.00	0.48	1.92	0.43	1.10	0.90	0.10	0.04	0.00		
12	0.02	0.00	0.00	0.00	0.38	1.81	0.48	0.70	0.70	0.09	0.04	0.00		
13	0.00	0.16	0.00	0.00	0.43	1.40	0.57	0.80	0.57	0.09	0.03	0.00		
14	0.00	0.13	0.00	0.00	0.34	1.81	0.57	0.80	0.57	0.09	0.03	0.00		
15	0.00	0.08	0.00	0.00	0.29	2.03	0.52	0.61	0.52	0.09	0.02	0.00		
16	0.00	0.05	0.00	0.00	0.21	1.70	0.52	0.52	0.48	0.08	0.02	0.00		
17	0.00	0.03	0.00	0.00	0.29	1.30	0.48	0.52	0.43	0.08	0.02	0.00		
18	0.00	0.01	0.00	0.00	0.29	1.30	0.43	4.83	0.48	0.08	0.02	0.00		
19	0.00	0.00	0.00	0.00	0.48	1.20	0.38	6.72	0.43	0.08	0.02	0.00		
20	0.00	0.00	0.00	0.00	0.61	1.40	3.47	2.80	0.43	0.08	0.02	0.00		
21	0.00	0.00	0.00	0.00	0.38	1.60	5.23	1.60	0.38	0.08	0.02	0.00		
22	0.00	0.00	0.00	0.00	0.25	1.30	2.47	1.10	0.29	0.07	0.02	0.00		
23	0.00	0.00	0.00	0.00	0.52	1.10	1.70	0.90	0.25	0.07	0.02	0.00		
24	0.00	0.00	0.00	0.90	0.52	1.00	1.50	1.10	0.25	0.07	0.02	0.00		
25	0.00	0.00	0.00	0.34	1.81	0.70	1.60	0.90	0.22	0.07	0.02	0.00		
26	0.00	0.00	0.00	0.18	2.47	0.66	2.80	0.80	0.22	0.07	0.02	0.00		
27	0.00	0.00	0.00	0.09	1.60	0.61	3.07	0.70	0.22	0.06	0.02	0.00		
28	0.00	0.00	0.00	2.58	1.00	0.61	2.36	0.61	0.22	0.09	0.02	0.00		
29	0.00	0.00	0.00	6.04	0.90	0.57	1.60	0.57	0.22	0.08		0.00		
30	0.00	0.00	0.00	5.23	0.66	0.61	24.19	0.57	0.21	0.08		0.00		
31		0.00		4.15	0.57		7.83		0.21	0.07		0.00		
Total	0.13	0.46	0.00	19.51	22.89	36.74	72.70	52.12	25.61	3.18	0.95	0.01	234.30	CMSDAY
Mean	0.00	0.01	0.00	0.63	0.74	1.22	2.35	1.74	0.83	0.10	0.03	0.00	0.64	CMS
Max	0.11	0.16	0.00	6.04	2.58	2.58	24.19	6.72	6.31	0.19	0.07	0.01	24.19	CMS
Min	0.00	0.00	0.00	0.00	0.21	0.34	0.38	0.52	0.21	0.06	0.02	0.00	0.00	CMS
Runoff	0.011	0.040	0.000	1.686	1.978	3.174	6.281	4.503	2.213	0.275	0.082	0.001	20.244	MCM

Momentary Peak 32.47 CMS, at 3.53 M (AD), at 15.00 Hours, on Oct 30, 1996
Runoff Yield 11.46 Liters/Second/Square KM, Momentary Peak Yield 579.821 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

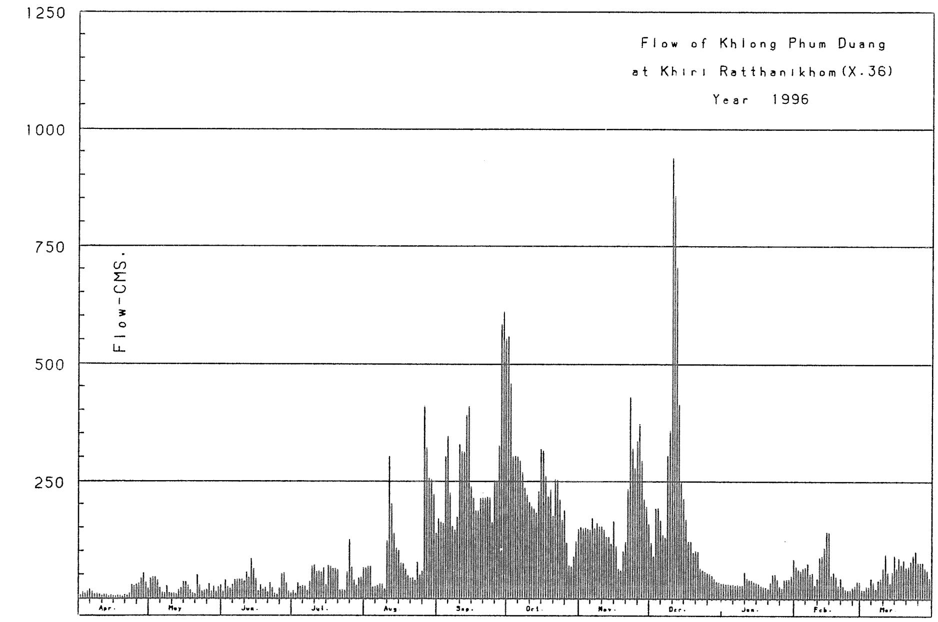
Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)

Location	Lat. 09°-01′-46″ N., Long. 98°-58′-00″ E., on left bank at Ban Tha Khanon, Amphoe Khiri Ratthanikhom, Surat Thani.
Drainage Area	3,012 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.45 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On left bank near the sixth staff gage.
Elevation	+10.502 m.(M.S.L)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1963 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Ratcha Prapha Dam. Stage-discharge relation defined by 30 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	1.80	1.15	1.19	2.19	3.54	7.08	3.33	2.89	1.57	2.22	1.26	
2	1.06	1.83	1.72	1.02	2.22	3.46	6.28	3.28	2.55	1.55	2.14	1.27	
3	0.98	1.85	1.41	1.58	2.25	3.42	4.95	3.29	3.83	1.53	2.07	1.44	
4	1.13	1.69	1.35	1.45	1.43	4.96	4.97	3.28	3.82	1.53	2.18	1.42	
5	1.29	1.39	1.50	1.46	1.42	5.33	4.95	3.24	3.51	1.52	2.20	1.80	
6	1.10	1.03	1.73	1.44	1.50	4.19	4.88	3.57	3.10	1.50	2.34	1.63	
7	0.92	1.00	1.72	1.25	1.54	3.35	4.64	3.30	3.05	1.50	1.97	1.33	
8	0.89	1.46	1.75	1.66	1.53	3.24	4.32	3.42	4.97	1.49	2.01	1.69	
9	0.90	1.06	1.73	2.23	1.33	3.60	4.14	3.33	5.44	1.49	1.51	1.77	
10	0.71	1.00	1.67	2.29	2.94	5.19	3.98	3.35	9.85	2.05	1.79	2.19	
11	0.86	0.98	2.02	2.05	4.96	5.05	3.86	3.24	9.28	1.77	2.52	2.61	
12	0.81	0.94	1.83	2.08	3.95	5.05	3.82	3.05	8.20	1.73	2.54	2.02	
13	0.69	1.25	2.46	2.03	3.16	5.72	3.69	3.07	5.92	1.69	2.78	1.60	
14	0.76	1.39	2.17	2.18	2.75	5.88	4.22	2.89	4.45	1.64	3.19	2.04	
15	0.71	1.62	1.77	1.52	2.71	4.33	5.10	3.49	4.07	1.59	3.19	2.57	
16	0.59	1.64	1.21	2.27	2.33	4.08	5.06	2.80	3.52	1.54	1.89	2.19	
17	0.75	1.46	1.49	2.23	2.33	3.77	4.57	2.15	2.93	1.48	2.04	2.49	
18	0.69	1.26	1.30	2.17	2.13	3.75	4.12	2.11	2.94	1.41	1.85	2.29	
19	0.66	0.97	1.38	2.16	1.92	4.08	4.26	2.69	2.66	1.38	1.47	2.44	
20	0.77	0.96	1.13	2.13	1.78	4.07	3.60	2.92	2.68	1.35	1.80	2.22	
21	0.78	1.94	1.58	1.26	1.80	4.07	4.49	4.28	2.68	1.62	1.47	2.22	
22	0.94	1.48	1.39	1.25	1.72	4.11	4.49	6.05	2.17	1.94	1.27	2.41	
23	1.52	1.19	0.95	1.25	2.38	4.07	4.04	5.10	2.12	1.95	1.26	2.56	
24	1.45	1.20	0.91	2.04	1.92	3.45	3.50	4.74	2.05	1.76	1.25	2.69	
25	1.53	1.29	1.36	2.98	2.08	4.46	3.77	5.25	2.02	1.45	1.39	2.37	
26	1.56	1.56	1.99	2.22	5.89	4.43	2.90	5.56	1.98	1.34	1.48	2.35	
27	1.79	1.14	2.01	1.69	5.12	5.16	2.25	4.87	1.93	1.74	1.67	2.37	
28	1.99	1.43	1.60	1.49	4.53	7.28	2.23	4.05	1.75	1.74	1.63	2.18	
29	1.59	1.15	1.14	1.82	4.49	7.49	2.54	3.86	1.66	1.76		2.11	
30	1.35	1.43	1.03	1.82	4.17	7.03	2.93	3.41	1.61	1.88		1.80	
31		1.48		2.18	3.16		3.25		1.58	2.46		1.54	
Mean	1.05	1.35	1.55	1.82	2.70	4.59	4.16	3.63	3.59	1.64	1.97	2.03	
Max	1.99	1.94	2.46	2.98	5.89	7.49	7.08	6.05	9.85	2.46	3.19	2.69	9.85
Min	0.59	0.94	0.91	1.02	1.33	3.24	2.23	2.11	1.58	1.34	1.25	1.26	0.59

Annual Max Momentary Gage Height 9.93 M (MSL), at 12.00 Hours, on Dec 10, 1996
Zero Gage at Bottom Elevation 0.45 M (MSL), River Bed -0.44 M (MSL)
Left Bank Elevation 10.21 M (MSL)
Right Bank Elevation 11.30 M (MSL), Drainage Area 3012 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.60	45.00	16.15	17.15	66.78	171.20	560.00	154.40	119.20	33.50	68.76	19.68	
2	13.90	46.50	41.00	12.90	68.76	164.80	460.00	150.40	92.25	32.50	63.68	20.06	
3	12.02	47.50	25.50	34.00	70.80	161.60	303.80	151.20	194.40	31.50	59.34	27.00	
4	15.65	39.50	23.10	27.50	26.50	304.92	306.04	150.40	193.60	31.50	66.16	26.00	
5	20.82	24.62	30.00	28.00	26.00	346.95	303.80	147.20	168.80	31.00	67.40	45.00	
6	14.90	13.15	41.50	27.00	30.00	226.10	295.96	173.60	136.00	30.00	76.92	36.50	
7	10.88	12.40	41.00	19.30	32.00	156.00	270.20	152.00	132.00	30.00	53.50	22.34	
8	10.31	28.00	42.50	38.00	31.50	147.20	238.40	161.60	306.04	29.50	55.62	39.50	
9	10.50	13.90	41.50	69.44	22.34	176.00	221.60	154.40	359.60	29.50	30.50	43.50	
10	6.98	12.40	38.50	73.52	123.20	330.87	207.20	156.00	940.25	58.10	44.50	66.78	
11	9.74	12.02	56.24	58.10	304.92	315.05	196.80	147.20	858.20	43.50	90.00	96.80	
12	8.79	11.26	46.50	59.96	204.50	315.05	193.60	132.00	707.00	41.50	91.50	56.24	
13	6.62	19.30	85.50	56.86	140.80	391.80	183.20	133.60	415.40	39.50	110.40	35.00	
14	7.88	24.62	65.54	66.16	108.00	410.60	228.90	119.20	251.00	37.00	143.20	57.48	
15	6.98	36.00	43.50	31.00	104.80	239.35	320.70	167.20	215.30	34.50	143.20	93.75	
16	4.85	37.00	17.78	72.16	76.24	216.20	316.18	112.00	169.60	32.00	49.50	66.78	
17	7.70	28.00	29.50	69.44	76.24	189.60	263.00	64.30	122.40	29.00	57.48	87.75	
18	6.62	19.68	21.20	65.54	63.06	188.00	219.80	61.82	123.20	25.50	47.50	73.52	
19	6.08	11.83	24.24	64.92	51.00	216.20	232.70	103.20	100.80	24.24	28.50	84.00	
20	8.06	11.64	15.65	63.06	44.00	215.30	176.00	121.60	102.40	23.10	45.00	68.76	
21	8.24	52.00	34.00	19.68	45.00	215.30	255.00	234.60	102.40	36.00	28.50	68.76	
22	11.26	29.00	24.62	19.30	41.00	218.90	255.00	431.25	65.54	52.00	20.06	81.75	
23	31.00	17.15	11.45	19.30	79.64	215.30	212.60	320.70	62.44	52.50	19.68	93.00	
24	27.50	17.40	10.69	57.48	51.00	164.00	168.00	280.70	58.10	43.00	19.30	103.20	
25	31.50	20.82	23.48	126.40	59.96	252.00	189.60	337.75	56.24	27.50	24.62	78.96	
26	33.00	33.00	54.50	68.76	411.80	249.00	120.00	373.40	54.00	22.72	29.00	77.60	
27	44.50	15.90	55.62	39.50	322.96	327.48	70.80	294.84	51.50	42.00	38.50	78.96	
28	54.50	26.50	35.00	29.50	259.00	585.40	69.44	213.50	42.50	42.00	36.50	66.16	
29	34.50	16.15	15.90	46.00	255.00	612.70	91.50	196.80	38.00	43.00		61.82	
30	23.10	26.50	13.15	46.00	224.30	553.75	122.40	160.80	35.50	49.00		45.00	
31		29.00		66.16	140.80		148.00		34.00	85.50		32.00	
Total	496.98	777.74	1024.81	1492.09	3561.90	8276.62	7200.22	5557.66	6307.66	1162.16	1608.82	1853.65	39320.31 CMSDAY
Mean	16.57	25.09	34.16	48.13	114.90	275.89	232.27	185.26	203.47	37.49	57.46	59.80	107.73 CMS
Max	54.50	52.00	85.50	126.40	411.80	612.70	560.00	431.25	940.25	85.50	143.20	103.20	940.25 CMS
Min	4.85	11.26	10.69	12.90	22.34	147.20	69.44	61.82	34.00	22.72	19.30	19.68	4.85 CMS
Runoff	42.939	67.197	88.544	128.917	307.748	715.100	622.099	480.182	544.982	100.411	139.002	160.155	3397.275 MCM

Momentary Peak 951.85 CMS, at 9.93 M (MSL), at 12.00 Hours, on Dec 10, 1996

Runoff Yield 35.77 Liters/Second/Square KM, Momentary Peak Yield 316.019 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENNINSULA EAST COAST

Pattani River at Ban Tha Sap, Yala (X.40A)

Location	Lat. 06°-33'-03" N., Long. 101°-16'-08" E., on left bank at the bridge of Yala - Ban Niang road, Amphoe Muang, Yala.
Drainage Area	3,288 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 between the fourth and the fifth staff gage.
Elevation	+8.006 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	1988 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Bang Lang Dam upstream. Stage-discharge relation defined by 25 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

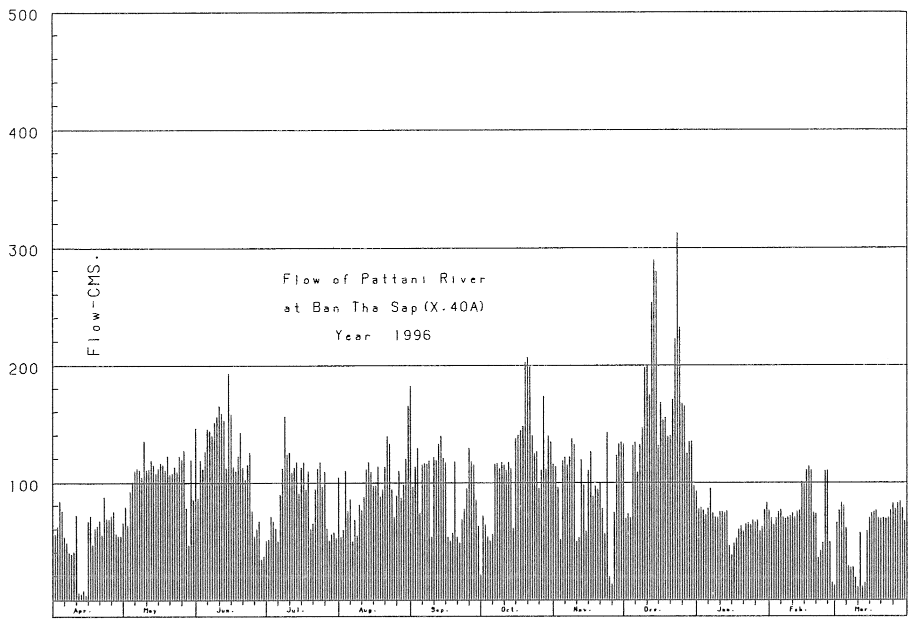
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.19	2.60	2.71	2.10	2.15	2.86	2.47	3.10	2.43	2.56	2.43	2.36	
2	2.30	2.32	3.16	2.46	2.25	3.09	2.34	2.86	2.49	2.58	2.34	2.55	
3	2.68	2.81	3.07	2.38	3.05	3.31	2.15	2.11	2.44	2.55	2.43	2.66	
4	2.53	2.92	3.27	2.28	2.53	2.50	2.09	3.16	3.34	2.48	2.52	2.61	
5	2.15	3.05	3.52	2.08	2.71	3.12	2.18	3.20	3.37	2.57	2.56	2.29	
6	2.05	3.07	3.50	2.77	2.07	3.13	3.13	3.12	3.03	2.85	2.45	1.67	
7	1.90	3.06	3.45	3.07	2.41	3.13	3.13	3.21	3.35	2.51	2.42	1.63	
8	1.86	2.97	3.60	3.66	2.17	3.16	3.08	3.41	3.54	2.44	2.45	1.65	
9	1.91	3.39	3.65	3.23	2.62	2.15	3.14	3.35	4.11	2.45	2.46	1.46	
10	2.48	3.06	3.76	3.26	2.54	3.20	3.12	2.07	4.14	2.53	2.51	1.28	
11	1.15	3.06	3.68	3.03	2.74	3.17	3.05	2.14	3.86	2.52	2.44	2.21	
12	1.14	3.17	3.62	3.08	3.06	3.35	3.15	3.17	4.65	2.52	2.53	1.29	
13	1.20	3.11	3.08	3.15	3.15	3.45	3.07	2.89	4.95	2.53	2.54	1.38	
14	1.11	3.02	4.06	2.78	3.03	3.19	2.28	2.23	4.88	2.01	2.93	2.23	
15	2.38	3.07	3.68	3.08	2.87	3.15	3.42	3.05	3.33	1.84	2.90	2.44	
16	2.46	3.13	3.09	3.15	2.88	2.14	3.45	3.27	3.78	2.04	3.05	2.50	
17	2.02	3.12	3.04	2.83	3.10	2.09	3.51	2.74	3.62	2.13	3.10	2.52	
18	2.28	3.05	3.22	3.04	2.75	2.20	3.55	2.87	3.64	2.26	3.05	2.55	
19	2.31	3.22	3.48	2.27	2.83	3.15	4.17	2.84	3.44	2.31	2.52	2.44	
20	2.40	3.00	3.08	2.35	3.09	2.14	4.21	2.91	3.44	2.24	2.49	2.42	
21	2.18	3.02	2.95	2.84	3.44	2.06	4.14	2.57	3.81	2.35	1.80	2.44	
22	2.74	3.09	3.12	3.07	3.36	2.42	3.45	2.20	4.37	2.36	1.93	2.42	
23	2.42	3.04	3.25	3.15	2.84	2.56	3.25	3.49	5.13	2.34	2.05	2.45	
24	2.42	3.21	2.54	2.86	2.45	2.85	3.26	1.48	4.46	2.40	3.05	2.54	
25	2.46	3.18	2.15	3.04	2.76	3.31	2.84	1.35	3.78	2.38	3.05	2.65	
26	2.52	3.28	2.27	2.28	3.05	3.15	3.06	2.52	3.75	2.40	2.07	2.57	
27	2.20	2.57	2.38	2.09	2.72	3.12	3.85	3.22	3.25	2.24	1.37	2.64	
28	2.15	2.02	1.78	2.18	2.89	2.69	3.06	3.35	3.38	2.30	1.33	2.67	
29	2.16	3.17	1.82	2.22	3.18	2.31	3.44	3.38	3.38	2.56		2.58	
30	2.36	2.70	2.08	2.12	3.76	1.52	3.38	3.35	2.88	2.66		2.38	
31		3.53		2.97	3.94		3.12		2.81	2.54		2.54	
Mean	2.14	3.00	3.07	2.74	2.85	2.79	3.15	2.82	3.64	2.40	2.46	2.26	
Max	2.74	3.53	4.06	3.66	3.94	3.45	4.21	3.49	5.13	2.85	3.10	2.67	5.13
Min	1.11	2.02	1.78	2.08	2.07	1.52	2.09	1.35	2.43	1.84	1.33	1.28	1.11

Annual Max Momentary Gage Height 5.22 M (A.D), at 18.00 Hours, on Dec 23, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.55 M (A.D)

Left Bank Elevation 6.13 M (A.D)

Right Bank Elevation 8.76 M (A.D), Drainage Area 3288 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	56.45	80.00	86.60	51.50	54.25	96.50	72.20	114.50	69.80	77.60	69.80	65.80	
2	62.50	63.60	119.00	71.60	59.75	113.75	64.70	96.50	73.40	78.80	64.70	77.00	
3	84.80	92.75	112.25	66.90	110.75	130.25	54.25	52.05	70.40	77.00	69.80	83.60	
4	75.80	101.00	127.25	61.40	75.80	74.00	50.95	119.00	132.50	72.80	75.20	80.60	
5	54.25	110.75	146.00	50.40	86.60	116.00	55.90	122.00	134.75	78.20	77.60	61.95	
6	48.75	112.25	144.50	90.20	49.85	116.75	116.75	116.00	109.25	95.75	71.00	29.50	
7	41.00	111.50	140.75	112.25	68.60	116.75	116.75	122.75	133.25	74.60	69.20	27.50	
8	39.00	104.75	152.00	157.40	55.35	119.00	113.00	137.75	147.50	70.40	71.00	28.50	
9	41.50	136.25	156.50	124.25	81.20	54.25	117.50	133.25	197.90	71.00	71.60	19.00	
10	72.80	111.50	166.40	126.50	76.40	122.00	116.00	49.85	200.60	75.80	74.60	11.20	
11	6.00	111.50	159.20	109.25	88.40	119.75	110.75	53.70	175.40	75.20	70.40	57.55	
12	5.60	119.75	153.80	113.00	111.50	133.25	118.25	119.75	253.50	75.20	75.80	11.60	
13	8.00	115.25	113.00	118.25	118.25	140.75	112.25	98.75	289.50	75.80	76.40	15.20	
14	4.40	108.50	193.40	90.80	109.25	121.25	61.40	58.65	280.40	46.55	101.75	58.65	
15	66.90	112.25	159.20	113.00	97.25	118.25	138.50	110.75	131.75	38.00	99.50	70.40	
16	71.60	116.75	113.75	118.25	98.00	53.70	140.75	127.25	168.20	48.20	110.75	74.00	
17	47.10	116.00	110.00	94.25	114.50	50.95	145.25	88.40	153.80	53.15	114.50	75.20	
18	61.40	110.75	123.50	110.00	89.00	57.00	148.25	97.25	155.60	60.30	110.75	77.00	
19	63.05	123.50	143.00	60.85	94.25	118.25	203.30	95.00	140.00	63.05	75.20	70.40	
20	68.00	107.00	113.00	65.25	113.75	53.70	207.00	100.25	140.00	59.20	73.40	69.20	
21	55.90	108.50	103.25	95.00	140.00	49.30	200.60	78.20	170.90	65.25	36.00	70.40	
22	88.40	113.75	116.00	112.25	134.00	69.20	140.75	57.00	223.00	65.80	42.50	69.20	
23	69.20	110.00	125.75	118.25	95.00	77.60	125.75	143.75	312.90	64.70	48.75	71.00	
24	69.20	122.75	76.40	96.50	71.00	95.75	126.50	20.00	232.60	68.00	110.75	76.40	
25	71.60	120.50	54.25	110.00	89.60	130.25	95.00	14.00	168.20	66.90	110.75	83.00	
26	75.20	128.00	60.85	61.40	110.75	118.25	111.50	75.20	165.50	68.00	49.85	78.20	
27	57.00	78.20	66.90	50.95	87.20	116.00	174.50	123.50	125.75	59.20	14.80	82.40	
28	54.25	47.10	35.00	55.90	98.75	85.40	111.50	133.25	135.50	62.50	13.20	84.20	
29	54.80	119.75	37.00	58.10	120.50	63.05	140.00	135.50	135.50	77.60		78.80	
30	65.80	86.00	50.40	52.60	166.40	22.00	135.50	133.25	98.00	83.60		66.90	
31		146.75		104.75	182.60		116.00		92.75	76.40		76.40	
Total	1640.25	3346.90	3458.90	2821.00	3048.50	2852.90	3741.30	2927.05	5018.10	2124.55	2049.55	1900.75	34929.75 CMSDAY
Mean	54.67	107.96	115.30	91.00	98.34	95.10	120.69	97.57	161.87	68.53	73.20	61.31	95.70 CMS
Max	88.40	146.75	193.40	157.40	182.60	140.75	207.00	143.75	312.90	95.75	114.50	84.20	312.90 CMS
Min	4.40	47.10	35.00	50.40	49.85	22.00	50.95	14.00	69.80	38.00	13.20	11.20	4.40 CMS
Runoff	141.718	289.172	298.849	243.734	263.390	246.491	323.248	252.897	433.564	183.561	177.081	164.225	3017.931 MCM

Momentary Peak 324.80 CMS, at 5.22 M (A.D), at 18.00 Hours, on Dec 23, 1996

Runoff Yield 29.11 Liters/Second/Square KM, Momentary Peak Yield 98.783 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENNINSULA EAST COAST

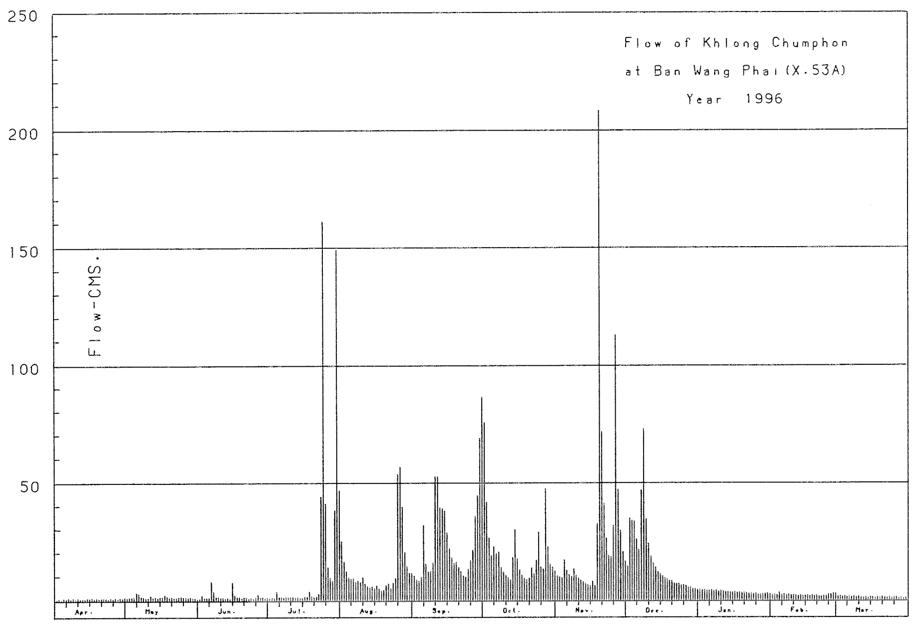
Khlong Chumphon at Ban Wang Phai, Chumphon (X.53A)

Location	Lat. 10°30'20" N., Long. 99°07'12" E., on left bank about 9.50 kilometers downstream from X.53 station, Amphoe Muang, Chumphon.
Drainage Area	305 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+1.52 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 3.30 meters from the top staff gage.
Elevation	+11.043 m.(M.S.L.)
Gage Reading Frequency	5-time daily recordings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1991 to date.
Rating Operation	
Period of Rating	1991 to date.
Rated by Float	-
Rated by Current Meter	1991 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +9.35 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.97	2.07	1.99	2.08	4.59	3.23	7.69	3.25	3.70	2.59	2.32	2.20	
2	1.96	2.04	2.23	2.07	3.89	3.07	5.87	3.18	5.34	2.58	2.31	2.20	
3	1.98	2.12	2.10	2.06	3.42	2.98	4.72	3.16	5.29	2.57	2.30	2.20	
4	2.02	2.12	2.05	2.45	3.17	3.20	4.13	3.94	5.24	2.56	2.42	2.20	
5	2.01	2.42	2.11	2.16	3.07	5.13	4.41	3.51	4.67	2.55	2.32	2.19	
6	2.04	2.34	2.98	2.10	3.11	3.76	4.18	3.27	4.32	2.54	2.30	2.19	
7	2.01	2.18	2.46	2.11	2.96	3.45	4.26	3.22	6.25	2.53	2.29	2.18	
8	2.03	2.11	2.19	2.13	2.99	3.42	3.64	3.58	7.60	2.52	2.29	2.17	
9	2.01	2.06	2.12	2.15	2.95	3.84	3.40	3.24	5.34	2.51	2.28	2.16	
10	2.03	2.03	2.11	2.11	3.18	6.65	3.27	3.12	4.51	2.50	2.27	2.15	
11	2.01	2.25	2.07	2.11	2.85	6.66	3.15	3.04	4.11	2.49	2.25	2.14	
12	2.00	2.10	2.05	2.11	2.73	5.69	3.07	2.95	3.82	2.48	2.25	2.13	
13	2.00	2.10	2.06	2.09	2.70	5.68	4.06	2.89	3.61	2.47	2.25	2.12	
14	2.02	2.10	2.05	2.10	2.72	5.58	4.99	2.80	3.43	2.46	2.25	2.11	
15	2.05	2.10	2.94	2.09	2.65	4.87	3.98	2.79	3.32	2.45	2.25	2.10	
16	2.04	2.10	2.25	2.12	2.79	4.37	3.50	2.96	3.22	2.44	2.24	2.09	
17	2.01	2.30	2.15	2.17	2.61	4.05	3.26	2.80	3.15	2.43	2.24	2.09	
18	2.01	2.16	2.10	2.49	2.54	3.80	3.15	5.16	3.08	2.41	2.24	2.11	
19	2.03	2.10	2.08	2.19	2.55	3.84	3.04	9.26	3.02	2.40	2.24	2.10	
20	2.02	2.10	2.09	2.13	2.80	3.65	3.10	7.57	2.98	2.39	2.23	2.14	
21	2.00	2.10	2.07	2.13	2.86	3.42	3.62	5.82	2.91	2.38	2.22	2.12	
22	1.99	2.10	2.05	2.36	2.65	3.25	3.36	4.71	2.87	2.37	2.21	2.11	
23	1.99	2.11	2.04	6.05	2.89	3.16	3.91	4.14	2.84	2.36	2.20	2.12	
24	2.01	2.15	2.03	9.01	3.13	3.56	4.89	4.06	2.81	2.35	2.25	2.11	
25	2.01	2.11	2.09	5.82	6.72	3.94	3.64	5.10	2.78	2.34	2.29	2.10	
26	2.01	2.10	2.32	3.65	6.92	4.30	3.57	8.46	2.76	2.33	2.33	2.09	
27	2.01	2.10	2.14	3.13	5.72	5.43	6.29	6.27	2.71	2.32	2.36	2.08	
28	2.02	2.09	2.08	3.01	4.26	6.09	4.43	4.94	2.67	2.33	2.34	2.07	
29	2.04	2.07	2.06	5.61	3.67	7.46	3.76	4.27	2.63	2.36		2.06	
30	2.07	2.02	2.05	8.89	3.39	7.97	3.66	3.87	2.61	2.35		2.06	
31		2.00		6.25	3.33		3.44		2.60	2.33		2.06	
Mean	2.01	2.12	2.17	3.19	3.41	4.52	4.05	4.24	3.75	2.44	2.28	2.13	
Max	2.07	2.42	2.98	9.01	6.92	7.97	7.69	9.26	7.60	2.59	2.42	2.20	9.26
Min	1.96	2.00	1.99	2.06	2.54	2.98	3.04	2.79	2.60	2.32	2.20	2.06	1.96

Annual Max Momentary Gage Height 9.42 M (MSL), at 6.00 Hours, on Jul 30, 1996
Zero Gage at Bottom Elevation 1.52 M (MSL), River Bed 1.28 M (MSL)
Left Bank Elevation 9.34 M (MSL)
Right Bank Elevation 10.38 M (MSL), Drainage Area 305 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	1.35	0.95	1.40	25.27	10.67	76.15	10.85	15.00	4.93	2.90	2.00	
2	0.80	1.20	2.23	1.35	16.90	9.23	41.98	10.22	35.02	4.85	2.82	2.00	
3	0.90	1.60	1.50	1.30	12.38	8.42	26.96	10.04	34.37	4.78	2.75	2.00	
4	1.10	1.60	1.25	3.88	10.13	10.40	19.43	17.40	33.72	4.70	3.65	2.00	
5	1.05	3.65	1.55	1.80	9.23	32.29	22.93	13.19	26.31	4.63	2.90	1.95	
6	1.20	3.05	8.42	1.50	9.59	15.60	19.98	11.03	21.76	4.55	2.75	1.95	
7	1.05	1.90	3.95	1.55	8.24	12.65	20.98	10.58	47.30	4.48	2.67	1.90	
8	1.15	1.55	1.95	1.65	8.51	12.38	14.40	13.82	73.00	4.40	2.67	1.85	
9	1.05	1.30	1.60	1.75	8.15	16.40	12.20	10.76	35.02	4.33	2.60	1.80	
10	1.15	1.15	1.55	1.55	10.22	52.90	11.03	9.68	24.23	4.25	2.52	1.75	
11	1.05	2.37	1.35	1.55	7.25	53.04	9.95	8.96	19.21	4.18	2.37	1.70	
12	1.00	1.50	1.25	1.55	6.17	39.57	9.23	8.15	16.20	4.10	2.37	1.65	
13	1.00	1.50	1.30	1.45	5.90	39.44	18.66	7.61	14.10	4.03	2.37	1.60	
14	1.10	1.50	1.25	1.50	6.08	38.14	30.47	6.80	12.47	3.95	2.37	1.55	
15	1.25	1.50	8.06	1.45	5.45	28.91	17.80	6.71	11.48	3.88	2.37	1.50	
16	1.20	1.50	2.37	1.60	6.71	22.41	13.10	8.24	10.58	3.80	2.30	1.45	
17	1.05	2.75	1.75	1.85	5.09	18.55	10.94	6.80	9.95	3.73	2.30	1.45	
18	1.05	1.80	1.50	4.18	4.55	16.00	9.95	32.68	9.32	3.58	2.30	1.55	
19	1.15	1.50	1.40	1.95	4.63	16.40	8.96	208.60	8.78	3.50	2.30	1.50	
20	1.10	1.50	1.45	1.65	6.80	14.50	9.50	72.18	8.42	3.43	2.23	1.70	
21	1.00	1.50	1.35	1.65	7.34	12.38	14.20	41.28	7.79	3.35	2.15	1.60	
22	0.95	1.50	1.25	3.20	5.45	10.85	11.84	26.83	7.43	3.27	2.08	1.55	
23	0.95	1.55	1.20	44.50	7.61	10.04	17.10	19.54	7.16	3.20	2.00	1.60	
24	1.05	1.75	1.15	161.65	9.77	13.64	29.17	18.66	6.89	3.12	2.37	1.55	
25	1.05	1.55	1.45	41.28	53.88	17.40	14.40	31.90	6.62	3.05	2.67	1.50	
26	1.05	1.50	2.90	14.50	57.22	21.50	13.73	113.42	6.44	2.97	2.97	1.45	
27	1.05	1.50	1.70	9.77	39.96	36.19	47.86	47.58	5.99	2.90	3.20	1.40	
28	1.10	1.45	1.40	8.69	20.98	45.06	23.19	29.82	5.63	2.97	3.05	1.35	
29	1.20	1.35	1.30	38.53	14.70	69.15	15.60	21.11	5.27	3.20		1.30	
30	1.35	1.10	1.25	149.28	12.11	86.80	14.60	16.70	5.09	3.12		1.30	
31		1.00		47.30	11.57		12.56		5.00	2.97		1.30	
Total	32.00	51.52	61.58	556.81	417.84	790.91	618.85	851.14	535.55	118.20	72.00	50.75	4157.15 CMSDAY
Mean	1.07	1.66	2.05	17.96	13.48	26.36	19.96	28.37	17.28	3.81	2.57	1.64	11.39 CMS
Max	1.35	3.65	8.42	161.65	57.22	86.80	76.15	208.60	73.00	4.93	3.65	2.00	208.60 CMS
Min	0.80	1.00	0.95	1.30	4.55	8.42	8.96	6.71	5.00	2.90	2.00	1.30	0.80 CMS
Runoff	2.765	4.451	5.321	48.108	36.101	68.335	53.469	73.539	46.272	10.212	6.221	4.385	359.178 MCM

Momentary Peak 254.00 CMS, at 9.42 M (MSL), at 6.00 Hours, on Jul 30, 1996
Runoff Yield 37.34 Liters/Second/Square KM, Momentary Peak Yield 832.787 Liters/Second/Square KM

WATER YEAR 1996

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, Amphoe Tha Sae, Chumphon.
Drainage Area	957 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+8.04 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 6 meters from the top staff gage.
Elevation	+19.233 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	1974-1975, 1982 to date.
Rated by Float	-
Rated by Current Meter	1974-1975, 1982 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 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

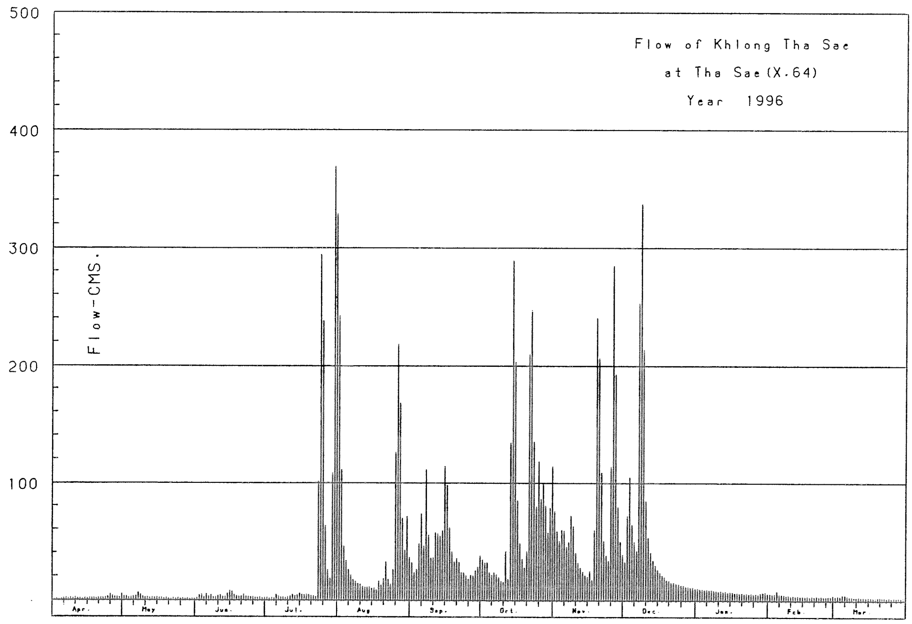
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.14	8.40	8.21	8.25	14.21	9.72	9.79	10.95	9.74	8.82	8.53	8.40	
2	8.14	8.34	8.46	8.23	11.80	9.40	9.70	10.51	10.85	8.81	8.52	8.39	
3	8.14	8.29	8.47	8.24	10.15	9.53	9.73	10.26	11.66	8.79	8.51	8.40	
4	8.14	8.30	8.34	8.25	9.76	10.19	9.43	10.55	10.66	8.78	8.71	8.45	
5	8.24	8.34	8.50	8.49	9.52	10.91	9.33	10.51	10.24	8.77	8.49	8.49	
6	8.23	8.37	8.39	8.34	9.33	10.14	9.43	10.12	10.02	8.76	8.51	8.40	
7	8.22	8.59	8.46	8.31	9.21	11.80	9.35	10.25	14.40	8.75	8.47	8.37	
8	8.21	8.47	8.33	8.27	9.12	10.40	9.28	10.87	15.76	8.73	8.46	8.34	
9	8.21	8.37	8.30	8.27	9.05	9.85	9.13	10.62	13.73	8.70	8.44	8.32	
10	8.25	8.32	8.43	8.31	8.99	9.84	9.11	9.99	11.18	8.69	8.42	8.32	
11	8.21	8.28	8.44	8.35	8.92	10.48	10.00	9.71	10.36	8.68	8.42	8.31	
12	8.20	8.26	8.37	8.49	8.86	10.44	9.24	9.58	9.98	8.67	8.41	8.30	
13	8.19	8.27	8.32	8.39	8.89	10.40	12.26	9.44	9.79	8.66	8.40	8.30	
14	8.20	8.28	8.55	8.47	8.87	10.51	15.00	9.35	9.63	8.63	8.40	8.29	
15	8.21	8.28	8.68	8.57	8.84	11.85	13.55	9.28	9.52	8.62	8.39	8.29	
16	8.22	8.27	8.64	8.46	8.84	11.51	11.19	9.46	9.41	8.61	8.39	8.27	
17	8.25	8.24	8.49	8.47	8.76	10.60	10.22	9.20	9.34	8.60	8.39	8.28	
18	8.23	8.23	8.37	8.47	9.13	10.00	9.81	10.53	9.27	8.59	8.38	8.29	
19	8.21	8.22	8.37	8.48	8.98	9.75	9.58	14.19	9.19	8.58	8.38	8.29	
20	8.26	8.21	8.36	8.40	9.22	9.83	10.02	13.61	9.15	8.57	8.38	8.29	
21	8.22	8.18	8.47	8.39	9.73	9.74	13.67	11.75	9.09	8.55	8.39	8.28	
22	8.26	8.21	8.39	8.37	9.22	9.41	14.29	10.28	9.07	8.54	8.38	8.26	
23	8.24	8.21	8.34	11.58	9.01	9.43	12.29	9.91	9.04	8.54	8.38	8.26	
24	8.36	8.21	8.33	15.09	9.52	9.32	11.05	9.78	9.01	8.53	8.37	8.25	
25	8.48	8.20	8.31	14.15	12.10	9.23	11.95	11.85	8.97	8.52	8.36	8.24	
26	8.39	8.19	8.30	10.63	13.81	9.33	11.21	14.92	8.94	8.52	8.36	8.24	
27	8.33	8.19	8.29	9.50	12.93	9.33	11.53	13.38	8.91	8.51	8.39	8.24	
28	8.29	8.19	8.28	9.25	10.82	9.47	11.08	11.04	8.89	8.57	8.43	8.24	
29	8.29	8.17	8.25	11.73	10.05	9.60	10.46	10.26	8.87	8.62		8.24	
30	8.49	8.15	8.25	16.26	10.84	9.90	11.04	9.92	8.86	8.61		8.25	
31		8.19		15.64	9.85		11.85		8.83	8.55		8.25	
Mean	8.25	8.27	8.39	9.62	9.95	10.06	10.82	10.74	10.08	8.64	8.43	8.31	
Max	8.49	8.59	8.68	16.26	14.21	11.85	15.00	14.92	15.76	8.82	8.71	8.49	16.26
Min	8.14	8.15	8.21	8.23	8.76	9.23	9.11	9.20	8.83	8.51	8.36	8.24	8.14

Annual Max Momentary Gage Height 16.50 M (MSL), at 14.00 Hours, on Jul 30, 1996

Zero Gage at Bottom Elevation 8.04 M (MSL), River Bed 7.38 M (MSL)

Left Bank Elevation 17.48 M (MSL)

Right Bank Elevation 17.13 M (MSL), Drainage Area 957 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	4.00	2.10	2.50	242.60	32.60	34.70	76.00	33.20	10.40	5.95	4.00	
2	1.40	3.40	4.90	2.30	112.00	23.50	32.00	59.35	72.00	10.20	5.80	3.90	
3	1.40	2.90	5.05	2.40	46.75	27.07	32.90	50.60	105.70	9.85	5.65	4.00	
4	1.40	3.00	3.40	2.50	33.80	48.15	24.33	60.75	64.75	9.70	8.65	4.75	
5	2.40	3.40	5.50	5.35	26.80	74.40	21.57	59.35	49.90	9.55	5.35	5.35	
6	2.30	3.70	3.90	3.40	21.57	46.40	24.33	45.70	42.20	9.40	5.65	4.00	
7	2.20	6.85	4.90	3.10	18.28	112.00	22.13	50.25	254.00	9.25	5.05	3.70	
8	2.10	5.05	3.30	2.70	16.40	55.50	20.20	72.80	337.40	8.95	4.90	3.40	
9	2.10	3.70	3.00	2.70	15.00	36.63	16.60	63.25	213.80	8.50	4.60	3.20	
10	2.50	3.20	4.45	3.10	13.80	36.30	16.20	41.17	85.20	8.35	4.30	3.20	
11	2.10	2.80	4.60	3.50	12.40	58.30	41.50	32.30	54.10	8.20	4.30	3.10	
12	2.00	2.60	3.70	5.35	11.20	56.90	19.10	28.45	40.85	8.05	4.15	3.00	
13	1.90	2.70	3.20	3.90	11.80	55.50	134.50	24.60	34.70	7.90	4.00	3.00	
14	2.00	2.80	6.25	5.05	11.40	59.35	290.00	22.13	29.90	7.45	4.00	2.90	
15	2.10	2.80	8.20	6.55	10.80	114.38	203.13	20.20	26.80	7.30	3.90	2.90	
16	2.20	2.70	7.60	4.90	10.80	98.95	85.60	25.15	23.77	7.15	3.90	2.70	
17	2.50	2.40	5.35	5.05	9.40	62.50	49.20	18.00	21.85	7.00	3.90	2.80	
18	2.30	2.30	3.70	5.05	16.60	41.50	35.33	60.05	19.93	6.85	3.80	2.90	
19	2.10	2.20	3.70	5.20	13.60	33.50	28.45	241.40	17.80	6.70	3.80	2.90	
20	2.60	2.10	3.60	4.00	18.55	35.97	42.20	206.60	17.00	6.55	3.80	2.90	
21	2.20	1.80	5.05	3.90	32.90	33.20	210.20	109.75	15.80	6.25	3.90	2.80	
22	2.60	2.10	3.90	3.70	18.55	23.77	247.40	51.30	15.40	6.10	3.80	2.60	
23	2.40	2.10	3.40	102.10	14.20	24.33	136.00	38.57	14.80	6.10	3.80	2.60	
24	3.60	2.10	3.30	295.40	26.80	21.30	80.00	34.40	14.20	5.95	3.70	2.50	
25	5.20	2.00	3.10	239.00	126.50	18.82	119.12	114.38	13.40	5.80	3.60	2.40	
26	3.90	1.90	3.00	63.62	218.60	21.57	86.40	285.20	12.80	5.80	3.60	2.40	
27	3.30	1.90	2.90	26.25	168.83	21.57	99.85	193.40	12.20	5.65	3.90	2.40	
28	2.90	1.90	2.80	19.38	70.80	25.43	81.20	79.60	11.80	6.55	4.45	2.40	
29	2.90	1.70	2.50	108.85	43.25	29.00	57.60	50.60	11.40	7.30		2.40	
30	5.35	1.50	2.50	369.90	71.60	38.25	79.60	38.90	11.20	7.15		2.50	
31		1.90		329.60	36.63		114.38		10.60	6.25		2.50	
Total	75.35	85.50	122.85	1640.30	1502.21	1366.64	2485.72	2254.20	1688.45	236.20	126.20	96.10	11679.72 CMSDAY
Mean	2.51	2.76	4.09	52.91	48.46	45.55	80.18	75.14	54.47	7.62	4.51	3.10	32.00 CMS
Max	5.35	6.85	8.20	369.90	242.60	114.38	290.00	285.20	337.40	10.40	8.65	5.35	369.90 CMS
Min	1.40	1.50	2.10	2.30	9.40	18.82	16.20	18.00	10.60	5.65	3.60	2.40	1.40 CMS
Runoff	6.510	7.387	10.614	141.722	129.791	118.078	214.766	194.763	145.882	20.408	10.904	8.303	1009.128 MCM

Momentary Peak 385.50 CMS, at 16.50 M (MSL), at 14.00 Hours, on Jul 30, 1996

Runoff Yield 33.44 Liters/Second/Square KM, Momentary Peak Yield 402.821 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

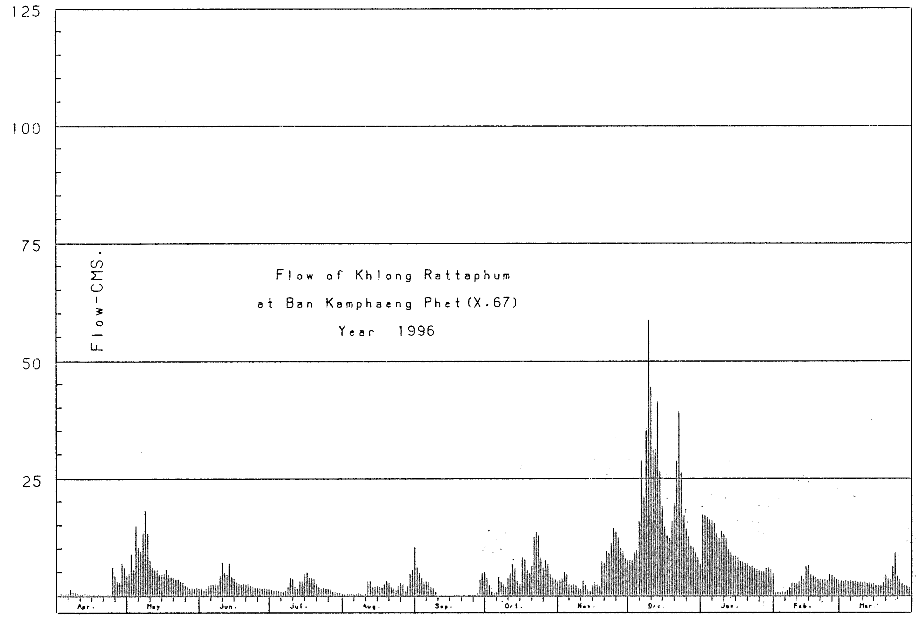
Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X.67)

Location	Lat.07°-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 good. Flow regulated by Rattaphum Weir. Stage-discharge relation defined by 29 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.27	18.15	17.74	17.69	17.40	18.29	18.06	18.01	18.39	18.90	17.55	17.99	
2	17.40	18.49	17.68	17.65	17.39	18.17	17.88	18.06	18.40	18.90	17.54	17.99	
3	17.38	18.25	17.72	17.64	17.40	18.07	17.60	18.19	18.51	18.88	17.55	17.99	
4	17.39	18.80	17.85	17.63	17.40	17.94	17.42	18.15	18.53	18.86	17.56	17.99	
5	17.46	18.57	17.88	17.55	17.40	17.99	17.60	17.88	18.85	18.85	17.59	17.99	
6	17.69	18.52	17.90	17.58	17.40	17.94	18.08	17.87	19.31	18.83	17.63	17.99	
7	17.54	18.73	17.89	17.60	17.40	17.81	17.97	17.88	19.05	18.73	17.79	17.98	
8	17.49	18.94	17.88	17.82	17.38	17.74	17.87	17.86	19.52	18.68	17.93	17.97	
9	17.43	18.73	18.11	18.06	17.36	17.60	17.81	17.74	20.06	18.75	17.94	17.96	
10	17.40	18.40	18.37	18.05	17.36	17.15	18.07	17.73	19.75	18.72	17.93	17.95	
11	17.39	18.27	18.19	17.80	17.97	17.15	18.16	17.99	19.39	18.67	17.97	17.95	
12	17.43	18.24	18.13	17.75	17.99	17.16	18.34	17.87	19.39	18.55	18.12	17.94	
13	17.40	18.22	18.34	17.99	17.81	17.17	18.25	17.69	19.67	18.51	18.02	17.93	
14	17.37	18.15	18.11	17.97	17.81	17.17	18.00	17.63	19.24	18.46	18.30	17.91	
15	17.31	18.13	18.04	18.14	17.84	17.15	17.88	17.87	18.97	18.45	18.31	17.90	
16	17.32	18.15	17.97	18.20	17.80	17.14	18.43	17.95	18.79	18.43	18.14	17.86	
17	17.32	18.25	17.90	18.06	17.80	17.17	18.41	17.88	18.71	18.39	18.12	17.85	
18	17.31	18.13	17.90	18.07	17.88	17.35	18.22	17.83	18.68	18.37	18.08	17.86	
19	17.33	18.10	17.90	18.03	18.00	17.20	18.17	18.37	18.85	18.35	18.05	17.93	
20	17.33	18.07	17.90	17.93	17.92	17.20	18.29	18.36	18.99	18.34	18.03	18.14	
21	17.32	18.04	17.90	17.79	17.81	17.22	18.70	18.52	19.31	18.30	18.03	18.04	
22	17.35	18.03	17.85	17.75	17.74	17.25	18.74	18.50	19.62	18.30	18.02	18.03	
23	17.38	17.98	17.82	17.75	17.68	17.23	18.71	18.63	19.23	18.27	18.01	18.29	
24	18.27	17.94	17.80	17.75	17.82	17.20	18.43	18.78	18.90	18.24	18.14	18.51	
25	18.12	17.87	17.79	17.75	17.95	17.27	18.28	18.75	18.78	18.23	18.13	18.12	
26	17.97	17.79	17.75	17.68	17.88	17.35	18.40	18.68	18.69	18.20	18.08	18.03	
27	17.95	17.76	17.74	17.59	17.63	17.47	18.33	18.57	18.60	18.21	18.05	17.94	
28	18.34	17.74	17.73	17.57	17.84	18.03	18.16	18.52	18.57	18.26	18.01	17.84	
29	18.28	17.75	17.74	17.52	18.16	18.16	18.06	18.43	18.51	18.29		17.85	
30	18.12	17.75	17.70	17.47	18.23	18.20	18.03	18.39	18.43	18.23		17.79	
31		17.75		17.40	18.58		17.96		18.34	18.17		17.77	
Mean	17.57	18.18	17.91	17.78	17.74	17.53	18.14	18.15	18.97	18.49	17.95	17.98	
Max	18.34	18.94	18.37	18.20	18.58	18.29	18.74	18.78	20.06	18.90	18.31	18.51	20.06
Min	17.27	17.74	17.68	17.40	17.36	17.14	17.42	17.63	18.34	18.17	17.54	17.77	17.14

Annual Max Momentary Gage Height	20.20 M (MSL), at 18.00 Hours, on Dec 9, 1996
Zero Gage at Bottom Elevation	16.00 M (MSL), River Bed 16.84 M (MSL)
Left Bank Elevation	20.78 M (MSL)
Right Bank Elevation	20.91 M (MSL), Drainage Area 272 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	4.70	1.60	1.36	0.50	6.28	3.84	3.39	7.57	17.30	0.85	3.22	
2	0.50	9.05	1.32	1.20	0.48	4.90	2.42	3.84	7.70	17.30	0.82	3.22	
3	0.46	5.80	1.50	1.16	0.50	3.93	1.00	5.10	9.36	16.82	0.85	3.22	
4	0.48	14.90	2.23	1.12	0.50	2.85	0.54	4.70	9.68	16.34	0.88	3.22	
5	0.62	10.32	2.42	0.85	0.50	3.22	1.00	2.42	16.10	16.10	0.97	3.22	
6	1.36	9.52	2.55	0.94	0.50	2.85	4.02	2.36	28.81	15.62	1.12	3.22	
7	0.82	13.43	2.48	1.00	0.50	1.97	3.07	2.42	21.35	13.43	1.85	3.15	
8	0.68	18.38	2.42	2.03	0.46	1.60	2.36	2.29	35.64	12.40	2.78	3.07	
9	0.56	13.43	4.30	3.84	0.42	1.00	1.97	1.60	58.88	13.85	2.85	3.00	
10	0.50	7.70	7.31	3.75	0.42	0.06	3.93	1.55	44.70	13.22	2.78	2.93	
11	0.48	6.04	5.10	1.90	3.07	0.06	4.80	3.22	31.29	12.20	3.07	2.93	
12	0.56	5.68	4.50	1.65	3.22	0.08	6.92	2.36	31.29	10.00	4.40	2.85	
13	0.50	5.44	6.92	3.22	1.97	0.09	5.80	1.36	41.40	9.36	3.48	2.78	
14	0.44	4.70	4.30	3.07	1.97	0.09	3.30	1.12	26.76	8.60	6.40	2.63	
15	0.32	4.50	3.66	4.60	2.16	0.06	2.42	2.36	19.19	8.45	6.53	2.55	
16	0.34	4.70	3.07	5.20	1.90	0.05	8.15	2.93	14.69	8.15	4.60	2.29	
17	0.34	5.80	2.55	3.84	1.90	0.09	7.85	2.42	13.01	7.57	4.40	2.23	
18	0.32	4.50	2.55	3.93	2.42	0.40	5.44	2.10	12.40	7.31	4.02	2.29	
19	0.36	4.20	2.55	3.57	3.30	0.13	4.90	7.31	16.10	7.05	3.75	2.78	
20	0.36	3.93	2.55	2.78	2.70	0.13	6.28	7.18	19.73	6.92	3.57	4.60	
21	0.34	3.66	2.55	1.85	1.97	0.16	12.80	9.52	28.81	6.40	3.57	3.66	
22	0.40	3.57	2.23	1.65	1.60	0.22	13.64	9.20	39.40	6.40	3.48	3.57	
23	0.46	3.15	2.03	1.65	1.32	0.18	13.01	11.40	26.47	6.04	3.39	6.28	
24	6.04	2.85	1.90	1.65	2.03	0.13	8.15	14.48	17.30	5.68	4.60	9.36	
25	4.40	2.36	1.85	1.65	2.93	0.25	6.16	13.85	14.48	5.56	4.50	4.40	
26	3.07	1.85	1.65	1.32	2.42	0.40	7.70	12.40	12.60	5.20	4.02	3.57	
27	2.93	1.70	1.60	0.97	1.12	0.64	6.79	10.32	10.80	5.32	3.75	2.85	
28	6.92	1.60	1.55	0.91	2.16	3.57	4.80	9.52	10.32	5.92	3.39	2.16	
29	6.16	1.65	1.60	0.76	4.80	4.80	3.84	8.15	9.36	6.28		2.23	
30	4.40	1.65	1.40	0.64	5.56	5.20	3.57	7.57	8.15	5.56		1.85	
31		1.65		0.50	10.48		3.00		6.92	4.90		1.75	
Total	45.37	182.41	84.24	64.56	65.78	45.39	163.47	168.44	650.26	301.25	90.67	101.08	1962.92 CMSDAY
Mean	1.51	5.88	2.81	2.08	2.12	1.51	5.27	5.61	20.98	9.72	3.24	3.26	5.38 CMS
Max	6.92	18.38	7.31	5.20	10.48	6.28	13.64	14.48	58.88	17.30	6.53	9.36	58.88 CMS
Min	0.25	1.60	1.32	0.50	0.42	0.05	0.54	1.12	6.92	4.90	0.82	1.75	0.05 CMS
Runoff	3.920	15.760	7.278	5.578	5.683	3.922	14.124	14.553	56.182	26.028	7.834	8.733	169.596 MCM

Momentary Peak 65.60 CMS, at 20.20 M (MSL), at 18.00 Hours, on Dec 9, 1996

Runoff Yield 19.77 Liters/Second/Square KM, Momentary Peak Yield 241.176 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

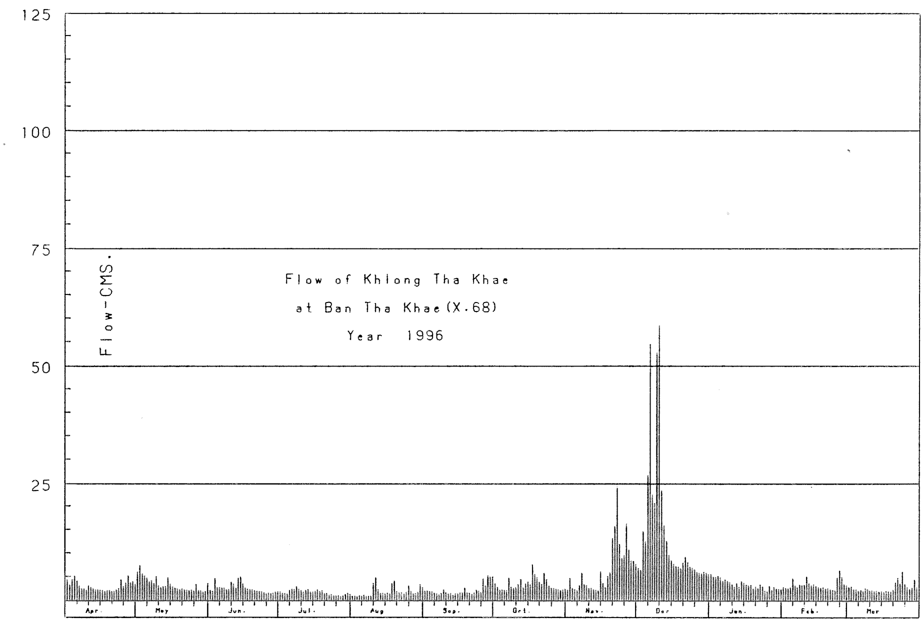
Khlong Tha Khae at Ban Tha Khae, Phatthalung (X.68)

Location	Lat.07°-34′-01″ N., Long. 100°-03′-05″ E., on left bank downstream side of the bridge of Phatthalung-Hat Yai Highway, Amphoe Muang, Phatthalung.
Drainage Area	Flood plain.
Type of Gage	Staff gage.
Zero Gage at Bottom	+11.80 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left 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 by some silting.
Overbank Flow Conditions	Overbank flow starts at elevation +15.46 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Flow regulated by Tha Khae weir. Stage-discharge relation defined by 42 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.99	13.17	12.71	12.66	12.51	12.69	12.90	12.72	13.24	13.13	12.81	12.83	
2	12.88	13.30	12.66	12.63	12.50	12.68	12.81	13.03	13.22	13.08	12.78	12.83	
3	13.00	13.14	13.04	12.60	12.50	12.68	12.73	12.79	13.85	13.06	12.79	12.77	
4	13.10	13.08	12.82	12.60	12.51	12.65	12.71	12.73	13.68	13.10	12.80	12.74	
5	12.98	13.05	12.80	12.70	12.52	12.62	12.73	12.71	14.58	13.05	13.04	12.71	
6	12.84	12.96	12.81	12.77	12.53	12.58	12.69	12.85	15.67	12.98	12.87	12.71	
7	12.78	12.97	12.79	12.73	12.51	12.56	13.05	13.16	14.35	13.00	12.80	12.70	
8	12.75	12.92	12.74	12.84	12.50	12.59	12.81	12.90	14.26	12.98	12.89	12.77	
9	12.72	13.07	12.73	12.75	12.52	12.74	12.79	12.86	15.62	12.94	12.86	12.77	
10	12.85	12.84	12.95	12.71	12.91	12.62	12.82	12.80	15.77	12.90	12.89	12.72	
11	12.82	12.81	12.89	12.63	13.06	12.59	12.88	12.79	14.41	12.82	13.08	12.70	
12	12.78	12.84	12.80	12.72	12.73	12.59	13.02	12.75	13.93	12.92	12.90	12.70	
13	12.71	12.82	13.03	12.73	12.62	12.55	12.81	12.71	13.70	12.81	12.87	12.69	
14	12.74	13.05	13.07	12.66	12.60	12.58	12.89	12.71	13.47	12.97	12.88	12.68	
15	12.70	12.89	12.90	12.64	12.60	12.60	12.94	13.19	13.39	12.92	12.85	12.68	
16	12.69	12.82	12.81	12.69	12.61	12.61	12.87	12.91	13.32	12.88	12.81	12.67	
17	12.68	12.80	12.75	12.73	12.60	12.61	13.32	12.82	13.29	12.87	12.81	12.68	
18	12.68	12.75	12.75	12.69	12.90	12.81	13.14	13.08	13.27	12.87	12.81	12.69	
19	12.72	12.75	12.72	12.69	12.98	12.64	13.05	13.17	13.25	12.78	12.79	12.66	
20	12.68	12.75	12.71	12.61	12.66	12.60	12.95	13.74	13.34	12.82	12.78	12.74	
21	12.65	12.74	12.67	12.60	12.63	12.59	12.88	13.93	13.45	12.79	12.76	12.93	
22	12.73	12.71	12.68	12.56	12.62	12.61	13.16	14.45	13.35	12.88	12.71	13.04	
23	12.76	12.71	12.65	12.55	12.59	12.73	13.00	13.66	13.28	12.85	12.72	12.92	
24	13.00	12.71	12.64	12.53	12.64	12.68	12.86	13.43	13.25	12.68	13.05	13.20	
25	12.82	12.70	12.60	12.53	12.86	12.65	12.80	13.46	13.23	12.69	13.22	12.91	
26	12.91	12.89	12.61	12.51	12.67	13.01	12.77	13.96	13.18	12.85	13.06	12.81	
27	13.10	12.72	12.61	12.51	12.60	12.86	12.77	13.57	13.15	12.70	12.90	12.77	
28	12.93	12.68	12.60	12.51	12.59	13.09	12.73	13.37	13.15	12.80	12.86	12.80	
29	12.94	12.66	12.66	12.58	12.66	13.07	12.72	13.38	13.17	12.78		13.01	
30	12.88	12.66	12.65	12.60	12.88	13.05	12.72	13.31	13.16	12.74		12.81	
31		12.90		12.56	12.80		12.77		13.12	12.75		12.76	
Mean	12.83	12.87	12.76	12.64	12.66	12.70	12.87	13.16	13.71	12.88	12.87	12.79	
Max	13.10	13.30	13.07	12.84	13.06	13.09	13.32	14.45	15.77	13.13	13.22	13.20	15.77
Min	12.65	12.66	12.60	12.51	12.50	12.55	12.69	12.71	13.12	12.68	12.71	12.66	12.50

Annual Max Momentary Gage Height	16.15 M (MSL), at 18.00 Hours, on Dec 6, 1996
Zero Gage at Bottom Elevation	11.80 M (MSL), River Bed 11.21 M (MSL)
Left Bank Elevation	15.45 M (MSL)
Right Bank Elevation	16.25 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.41	6.10	2.26	1.96	1.06	2.14	3.60	2.32	6.88	5.70	2.88	3.04		
2	3.44	7.60	1.96	1.78	1.00	2.08	2.88	4.77	6.64	5.22	2.68	3.04		
3	4.50	5.80	4.86	1.60	1.00	2.08	2.38	2.74	14.90	5.04	2.74	2.62		
4	5.40	5.22	2.96	1.60	1.06	1.90	2.26	2.38	12.52	5.40	2.80	2.44		
5	4.32	4.95	2.80	2.20	1.12	1.72	2.38	2.26	26.74	4.95	4.86	2.26		
6	3.12	4.14	2.88	2.62	1.18	1.48	2.14	3.20	54.80	4.32	3.36	2.26		
7	2.68	4.23	2.74	2.38	1.06	1.36	4.95	6.00	22.60	4.50	2.80	2.20		
8	2.50	3.78	2.44	3.12	1.00	1.54	2.88	3.60	21.02	4.32	3.52	2.62		
9	2.32	5.13	2.38	2.50	1.12	2.44	2.74	3.28	52.80	3.96	3.28	2.62		
10	3.20	3.12	4.05	2.26	3.69	1.72	2.96	2.80	58.80	3.60	3.52	2.32		
11	2.96	2.88	3.52	1.78	5.04	1.54	3.44	2.74	23.68	2.96	5.22	2.20		
12	2.68	3.12	2.80	2.32	2.38	1.54	4.68	2.50	16.02	3.78	3.60	2.20		
13	2.26	2.96	4.77	2.38	1.72	1.30	2.88	2.26	12.80	2.88	3.36	2.14		
14	2.44	4.95	5.13	1.96	1.60	1.48	3.52	2.26	9.71	4.23	3.44	2.08		
15	2.20	3.52	3.60	1.84	1.60	1.60	3.96	6.30	8.68	3.78	3.20	2.08		
16	2.14	2.96	2.88	2.14	1.66	1.66	3.36	3.69	7.84	3.44	2.88	2.02		
17	2.08	2.80	2.50	2.38	1.60	1.66	7.84	2.96	7.48	3.36	2.88	2.08		
18	2.08	2.50	2.50	2.14	3.60	2.88	5.80	5.22	7.24	3.36	2.88	2.14		
19	2.32	2.50	2.32	2.14	4.32	1.84	4.95	6.10	7.00	2.68	2.74	1.96		
20	2.08	2.50	2.26	1.66	1.96	1.60	4.05	13.36	8.08	2.96	2.68	2.44		
21	1.90	2.44	2.02	1.60	1.78	1.54	3.44	16.02	9.45	2.74	2.56	3.87		
22	2.38	2.26	2.08	1.36	1.72	1.66	6.00	24.40	8.20	3.44	2.26	4.86		
23	2.56	2.26	1.90	1.30	1.54	2.38	4.50	12.24	7.36	3.20	2.32	3.78		
24	4.50	2.26	1.84	1.18	1.84	2.08	3.28	9.19	7.00	2.08	4.95	6.40		
25	2.96	2.20	1.60	1.18	3.28	1.90	2.80	9.58	6.76	2.14	6.64	3.69		
26	3.69	3.52	1.66	1.06	2.02	4.59	2.62	16.44	6.20	3.20	5.04	2.88		
27	5.40	2.32	1.66	1.06	1.60	3.28	2.62	11.01	5.90	2.20	3.60	2.62		
28	3.87	2.08	1.60	1.06	1.54	5.31	2.38	8.44	5.90	2.80	3.28	2.80		
29	3.96	1.96	1.96	1.48	1.96	5.13	2.32	8.56	6.10	2.68		4.59		
30	3.44	1.96	1.90	1.60	3.44	4.95	2.32	7.72	6.00	2.44		2.88		
31		3.60		1.36	2.80		2.62		5.60	2.50		2.56		
Total	93.79	107.62	79.83	57.00	62.29	68.38	108.55	204.34	460.70	109.86	95.97	87.69	1536.02	CMSDAY
Mean	3.13	3.47	2.66	1.84	2.01	2.28	3.50	6.81	14.86	3.54	3.43	2.83	4.21	CMS
Max	5.40	7.60	5.13	3.12	5.04	5.31	7.84	24.40	58.80	5.70	6.64	6.40	58.80	CMS
Min	1.90	1.96	1.60	1.06	1.00	1.30	2.14	2.26	5.60	2.08	2.26	1.96	1.00	CMS
Runoff	8.103	9.298	6.897	4.925	5.382	5.908	9.379	17.655	39.804	9.492	8.292	7.576	132.712	MCM

Momentary Peak 84.10 CMS, at 16.15 M (MSL), at 18.00 Hours, on Dec 6, 1996
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENNINSULA EAST COAST

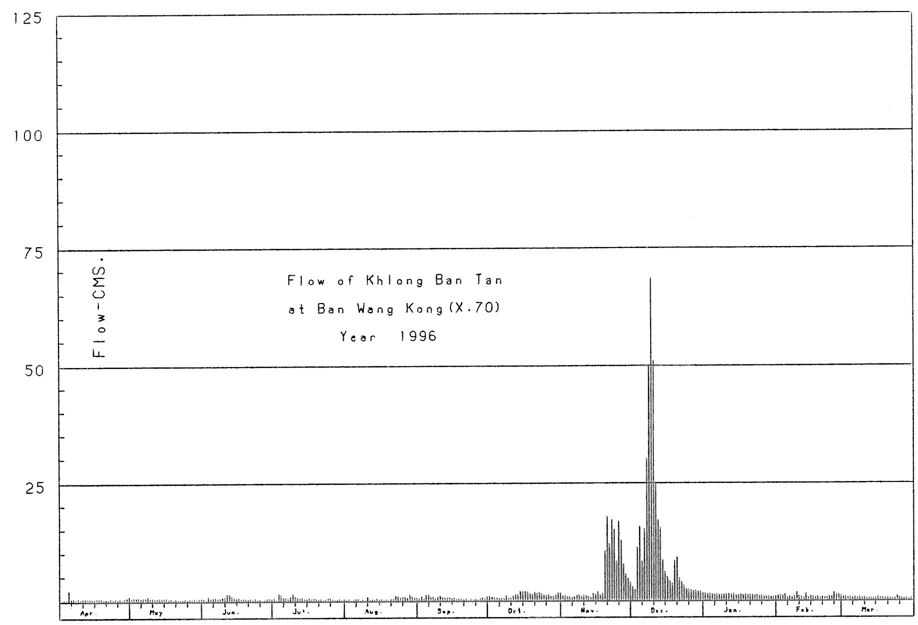
Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)

Location	Lat.08°-25′-35″ N., Long. 99°-51′-53″ E.,On left bank upstream side of the bridge, Ban Wang Kong, Amphoe Muang, Nakhon Si Thammarat.
Drainage Area	39 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	+7.274 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967 - 1971, 1980, 1989 to date.
Rated by Float	-
Rated by Current Meter	1967 - 1971, 1980, 1989 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +3.49 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 51 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	0.51	0.43	0.48	0.42	0.45	0.61	0.64	1.08	0.78	0.67	0.60	
2	0.38	0.51	0.42	0.43	0.41	0.58	0.58	0.63	0.98	0.76	0.67	0.58	
3	0.45	0.54	0.58	0.78	0.40	0.51	0.49	0.60	2.59	0.75	0.67	0.55	
4	0.96	0.50	0.50	0.69	0.40	0.67	0.54	0.57	3.10	0.75	0.72	0.54	
5	0.51	0.51	0.54	0.53	0.45	0.73	0.50	0.55	2.15	0.72	0.55	0.53	
6	0.47	0.49	0.50	0.52	0.42	0.60	0.48	0.54	3.04	0.70	0.56	0.52	
7	0.47	0.55	0.50	0.48	0.40	0.55	0.50	0.69	3.95	0.70	0.56	0.51	
8	0.48	0.59	0.47	0.58	0.41	0.49	0.64	0.67	4.66	0.68	0.60	0.53	
9	0.47	0.50	0.55	0.78	0.40	0.56	0.53	0.61	5.16	0.72	0.85	0.51	
10	0.47	0.47	0.55	0.58	0.62	0.65	0.48	0.66	4.69	0.70	0.60	0.50	
11	0.47	0.49	0.72	0.53	0.44	0.50	0.65	0.67	3.70	0.72	0.57	0.49	
12	0.47	0.50	0.75	0.52	0.42	0.53	0.73	0.58	3.22	0.74	0.56	0.48	
13	0.47	0.50	0.60	0.51	0.44	0.52	0.70	0.56	3.07	0.74	0.74	0.47	
14	0.45	0.50	0.56	0.48	0.43	0.55	0.90	0.74	2.22	0.70	0.57	0.48	
15	0.47	0.47	0.50	0.47	0.41	0.50	0.84	0.74	1.75	0.69	0.64	0.48	
16	0.45	0.47	0.49	0.50	0.41	0.50	0.90	0.84	1.58	0.69	0.57	0.54	
17	0.49	0.45	0.47	0.48	0.41	0.47	0.84	0.69	1.39	0.69	0.56	0.53	
18	0.45	0.44	0.46	0.46	0.40	0.43	0.78	0.75	1.26	0.69	0.55	0.49	
19	0.45	0.44	0.44	0.45	0.41	0.45	0.70	2.52	2.17	0.69	0.53	0.50	
20	0.45	0.43	0.45	0.44	0.40	0.44	0.85	3.26	2.31	0.67	0.53	0.49	
21	0.44	0.43	0.44	0.43	0.48	0.43	0.76	2.71	1.50	0.67	0.56	0.48	
22	0.46	0.43	0.45	0.42	0.66	0.43	0.86	3.22	1.37	0.67	0.55	0.47	
23	0.45	0.43	0.44	0.40	0.60	0.42	0.75	3.05	1.16	0.65	0.58	0.46	
24	0.46	0.43	0.43	0.53	0.57	0.44	0.70	2.14	1.00	0.66	0.60	0.64	
25	0.44	0.42	0.42	0.47	0.56	0.43	0.66	3.19	0.95	0.63	0.80	0.50	
26	0.44	0.42	0.43	0.45	0.55	0.43	0.72	2.82	0.95	0.63	0.74	0.48	
27	0.44	0.43	0.43	0.43	0.52	0.50	0.63	2.07	0.91	0.61	0.72	0.47	
28	0.47	0.45	0.49	0.42	0.73	0.50	0.59	1.67	0.91	0.58	0.63	0.45	
29	0.56	0.44	0.46	0.43	0.59	0.50	0.70	1.50	0.88	0.57		0.45	
30	0.61	0.44	0.46	0.42	0.56	0.59	0.79	1.31	0.85	0.54		0.45	
31		0.51		0.44	0.50		0.77		0.80	0.58		0.45	
Mean	0.48	0.47	0.50	0.50	0.48	0.51	0.68	1.37	2.11	0.68	0.62	0.50	
Max	0.96	0.59	0.75	0.78	0.73	0.73	0.90	3.26	5.16	0.78	0.85	0.64	5.16
Min	0.38	0.42	0.42	0.40	0.40	0.42	0.48	0.54	0.80	0.54	0.53	0.45	0.38

Annual Max Momentary Gage Height 6.63 M (AD), at 15.00 Hours, on Dec 9, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.12 M (AD)
Left Bank Elevation 7.38 M (AD)
Right Bank Elevation 3.48 M (AD), Drainage Area 39 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	0.66	0.43	0.57	0.40	0.48	0.96	1.08	2.85	1.62	1.19	0.92	
2	0.31	0.66	0.40	0.43	0.37	0.86	0.86	1.04	2.42	1.54	1.19	0.86	
3	0.48	0.75	0.86	1.62	0.34	0.66	0.60	0.92	11.23	1.51	1.19	0.78	
4	2.34	0.63	0.63	1.27	0.34	1.19	0.75	0.83	15.90	1.51	1.39	0.75	
5	0.66	0.66	0.75	0.72	0.48	1.43	0.63	0.78	8.41	1.39	0.78	0.72	
6	0.54	0.60	0.63	0.69	0.40	0.92	0.57	0.75	15.24	1.31	0.80	0.69	
7	0.54	0.78	0.63	0.57	0.34	0.78	0.63	1.27	30.40	1.31	0.80	0.66	
8	0.57	0.89	0.54	0.86	0.37	0.60	1.08	1.19	50.10	1.23	0.92	0.72	
9	0.54	0.63	0.78	1.62	0.34	0.80	0.72	0.96	68.74	1.39	1.90	0.66	
10	0.54	0.54	0.78	0.86	1.00	1.11	0.57	1.15	51.15	1.31	0.92	0.63	
11	0.54	0.60	1.39	0.72	0.46	0.63	1.11	1.19	25.15	1.39	0.83	0.60	
12	0.54	0.63	1.51	0.69	0.40	0.72	1.43	0.86	17.30	1.47	0.80	0.57	
13	0.54	0.63	0.92	0.66	0.46	0.69	1.31	0.80	15.57	1.47	1.47	0.54	
14	0.48	0.63	0.80	0.57	0.43	0.78	2.10	1.47	8.82	1.31	0.83	0.57	
15	0.54	0.54	0.63	0.54	0.37	0.63	1.86	1.47	6.09	1.27	1.08	0.57	
16	0.48	0.54	0.60	0.63	0.37	0.63	2.10	1.86	5.14	1.27	0.83	0.75	
17	0.60	0.48	0.54	0.57	0.37	0.54	1.86	1.27	4.24	1.27	0.80	0.72	
18	0.48	0.46	0.51	0.51	0.34	0.43	1.62	1.51	3.65	1.27	0.78	0.60	
19	0.48	0.46	0.46	0.48	0.37	0.48	1.31	10.74	8.52	1.27	0.72	0.63	
20	0.48	0.43	0.48	0.46	0.34	0.46	1.90	17.90	9.36	1.19	0.72	0.60	
21	0.46	0.43	0.46	0.43	0.57	0.43	1.54	12.07	4.76	1.19	0.80	0.57	
22	0.51	0.43	0.48	0.40	1.15	0.43	1.94	17.30	4.15	1.19	0.78	0.54	
23	0.48	0.43	0.46	0.34	0.92	0.40	1.51	15.35	3.20	1.11	0.86	0.51	
24	0.51	0.43	0.43	0.72	0.83	0.46	1.31	8.35	2.50	1.15	0.92	1.08	
25	0.46	0.40	0.40	0.54	0.80	0.43	1.15	16.89	2.30	1.04	1.70	0.63	
26	0.46	0.40	0.43	0.48	0.78	0.43	1.39	12.91	2.30	1.04	1.47	0.57	
27	0.46	0.43	0.43	0.43	0.69	0.63	1.04	7.93	2.14	0.96	1.39	0.54	
28	0.54	0.48	0.60	0.40	1.43	0.63	0.89	5.64	2.14	0.86	1.04	0.48	
29	0.80	0.46	0.51	0.43	0.89	0.63	1.31	4.76	2.02	0.83		0.48	
30	0.96	0.46	0.51	0.40	0.80	0.89	1.66	3.87	1.90	0.75		0.48	
31		0.66		0.46	0.63		1.58		1.70	0.86		0.48	
Total	17.75	17.21	18.98	20.07	17.78	20.18	39.29	154.11	389.39	38.28	28.90	19.90	781.84 CMSDAY
Mean	0.59	0.56	0.63	0.65	0.57	0.67	1.27	5.14	12.56	1.23	1.03	0.64	2.14 CMS
Max	2.34	0.89	1.51	1.62	1.43	1.43	2.10	17.90	68.74	1.62	1.90	1.08	68.74 CMS
Min	0.31	0.40	0.40	0.34	0.34	0.40	0.57	0.75	1.70	0.75	0.72	0.48	0.31 CMS
Runoff	1.534	1.487	1.640	1.734	1.536	1.744	3.395	13.315	33.643	3.307	2.497	1.719	67.551 MCM

Momentary Peak 148.44 CMS, at 6.63 M (AD), at 15.00 Hours, on Dec 9, 1996

Runoff Yield 54.92 Liters/Second/Square KM, Momentary Peak Yield 3806.154 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

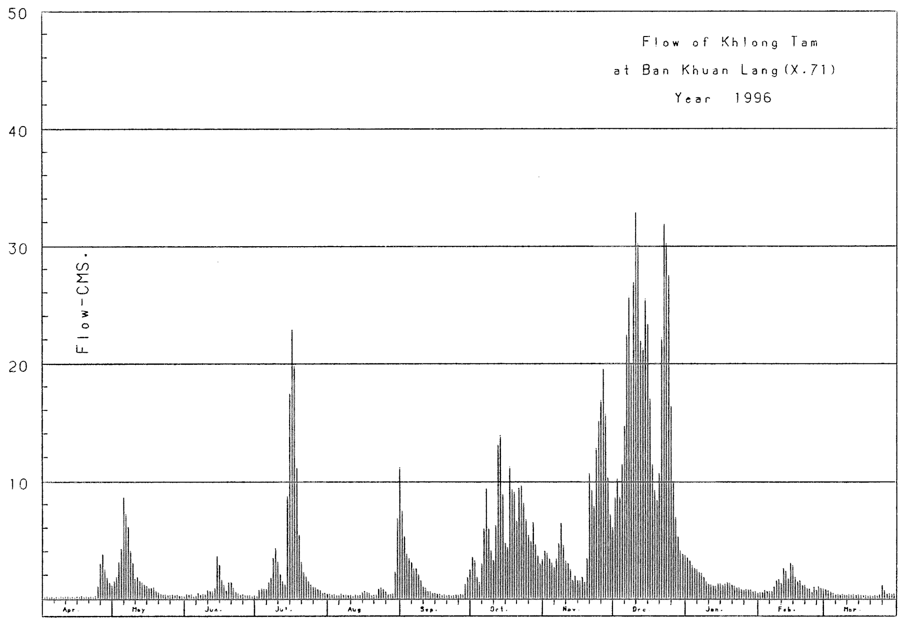
Khlong Tam at Ban Khuan Lang(3), Songkhla (X.71)

Location	Lat.06°-59′-55″ N., Long. 100°-25′-58″ E., on left 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	+0.65 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 4.00 meters from the fourth staff gage.
Elevation	+7.064 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 by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.71	3.39	2.92	2.84	2.95	4.61	3.91	4.03	4.78	3.88	3.03	3.15	
2	2.70	3.47	2.94	3.10	2.94	4.25	3.82	3.98	4.99	3.83	3.05	3.09	
3	2.71	3.78	2.94	3.17	2.94	3.96	3.48	3.87	4.78	3.72	3.11	3.07	
4	2.70	4.06	2.82	3.14	2.91	3.86	3.34	3.77	5.16	3.67	3.09	3.01	
5	2.69	4.79	2.88	3.15	2.89	3.79	3.77	3.69	5.55	3.63	3.07	2.96	
6	2.71	4.56	3.00	3.36	2.95	3.64	4.36	3.85	6.33	3.59	3.09	2.94	
7	2.72	4.40	2.93	3.45	2.92	3.66	4.89	4.14	6.63	3.55	3.22	2.93	
8	2.75	4.02	2.94	3.88	2.88	3.53	4.37	4.45	6.11	3.48	3.41	2.95	
9	2.77	3.78	2.96	4.06	2.89	3.39	4.02	4.10	6.74	3.37	3.42	2.93	
10	2.73	3.43	3.10	3.79	2.87	3.23	3.84	3.81	7.25	3.31	3.34	2.93	
11	2.71	3.46	3.09	3.54	2.85	3.18	4.41	3.77	7.02	3.27	3.67	2.94	
12	2.70	3.40	3.06	3.37	2.90	3.08	5.36	3.63	6.29	3.26	3.59	2.94	
13	2.69	3.33	3.19	3.29	2.89	3.06	5.45	3.41	6.23	3.23	3.45	2.94	
14	2.71	3.29	3.91	4.79	2.86	3.02	4.81	3.49	6.61	3.32	3.78	2.93	
15	2.74	3.23	3.74	5.85	3.04	2.99	4.15	3.41	6.42	3.31	3.72	2.91	
16	2.79	3.18	3.42	6.38	3.07	2.99	4.07	3.38	5.80	3.28	3.47	2.88	
17	2.81	3.19	3.26	6.08	3.05	2.94	5.13	3.48	5.16	3.29	3.38	2.90	
18	2.74	3.19	3.11	5.12	2.99	2.89	4.88	3.34	4.86	3.36	3.39	2.88	
19	2.75	3.09	3.33	4.28	2.88	2.91	4.84	3.87	4.75	3.32	3.28	2.86	
20	2.74	3.02	3.37	3.79	2.87	2.87	4.48	5.05	5.05	3.28	3.27	2.85	
21	2.74	2.99	3.18	3.57	2.94	2.88	4.88	4.87	6.31	3.24	3.19	2.86	
22	2.74	2.92	3.06	3.49	3.16	2.86	4.92	4.66	7.17	3.21	3.15	2.87	
23	2.83	2.91	2.96	3.39	3.18	2.84	4.70	5.32	7.02	3.19	3.07	2.88	
24	3.24	2.90	2.93	3.27	3.15	2.92	4.49	5.60	6.79	3.15	3.21	2.90	
25	3.77	2.87	2.91	3.23	3.04	2.92	4.26	5.79	5.74	3.13	3.14	3.28	
26	3.97	2.90	2.91	3.19	2.93	2.93	4.18	6.06	4.95	3.13	3.22	3.10	
27	3.63	2.89	2.90	3.15	2.96	2.94	4.46	5.66	4.52	3.14	3.19	3.00	
28	3.45	2.89	2.86	3.09	2.96	3.28	4.11	5.01	4.24	3.12	3.15	2.99	
29	3.34	2.86	2.83	3.02	3.59	3.47	3.94	4.56	4.02	3.07		2.99	
30	3.24	2.81	2.84	3.00	4.50	3.62	3.76	4.38	3.97	3.07		2.97	
31		2.83		2.99	5.12		3.84		3.93	3.03		2.95	
Mean	2.92	3.35	3.08	3.74	3.10	3.28	4.35	4.28	5.65	3.34	3.29	2.96	
Max	3.97	4.79	3.91	6.38	5.12	4.61	5.45	6.06	7.25	3.88	3.78	3.28	7.25
Min	2.69	2.81	2.82	2.84	2.85	2.84	3.34	3.34	3.93	3.03	3.03	2.85	2.69

Annual Max Momentary Gage Height 7.47 M (MSL), at 6.00 Hours, on Dec 23, 1996
Zero Gage at Bottom Elevation 0.65 M (MSL), River Bed 2.18 M (MSL)
Left Bank Elevation 7.84 M (MSL)
Right Bank Elevation 7.81 M (MSL), Drainage Area 127 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	1.57	0.40	0.29	0.44	7.57	3.64	4.17	8.67	3.52	0.57	0.88	
2	0.21	1.88	0.42	0.75	0.42	5.37	3.28	3.92	10.22	3.32	0.62	0.72	
3	0.21	3.12	0.42	0.93	0.42	3.84	1.92	3.48	8.67	2.88	0.77	0.67	
4	0.21	4.33	0.27	0.85	0.38	3.44	1.42	3.08	11.50	2.68	0.72	0.52	
5	0.21	8.73	0.34	0.88	0.36	3.16	3.08	2.76	14.78	2.52	0.67	0.45	
6	0.21	7.24	0.50	1.48	0.44	2.56	5.98	3.40	22.43	2.36	0.72	0.42	
7	0.22	6.20	0.41	1.80	0.40	2.64	9.47	4.77	25.75	2.20	1.06	0.41	
8	0.23	4.11	0.42	3.52	0.34	2.12	6.03	6.52	20.10	1.92	1.64	0.44	
9	0.23	3.12	0.45	4.33	0.36	1.57	4.11	4.55	27.01	1.51	1.68	0.41	
10	0.22	1.72	0.75	3.16	0.33	1.09	3.36	3.24	32.94	1.33	1.42	0.41	
11	0.21	1.84	0.72	2.16	0.30	0.95	6.26	3.08	30.23	1.21	2.68	0.42	
12	0.21	1.60	0.65	1.51	0.37	0.70	13.16	2.52	21.99	1.18	2.36	0.42	
13	0.21	1.39	0.98	1.27	0.36	0.65	13.92	1.64	21.33	1.09	1.80	0.42	
14	0.21	1.27	3.64	8.73	0.32	0.55	8.87	1.96	25.52	1.36	3.12	0.41	
15	0.22	1.09	2.96	17.50	0.60	0.49	4.83	1.64	23.42	1.33	2.88	0.38	
16	0.24	0.95	1.68	22.98	0.67	0.49	4.39	1.54	17.00	1.24	1.88	0.34	
17	0.25	0.98	1.18	19.80	0.62	0.42	11.28	1.92	11.50	1.27	1.54	0.37	
18	0.22	0.98	0.77	11.20	0.49	0.36	9.40	1.42	9.25	1.48	1.57	0.34	
19	0.23	0.72	1.39	5.54	0.34	0.38	9.10	3.48	8.47	1.36	1.24	0.32	
20	0.22	0.55	1.51	3.16	0.33	0.33	6.72	10.68	10.68	1.24	1.21	0.30	
21	0.22	0.49	0.95	2.28	0.42	0.34	9.40	9.32	22.21	1.12	0.98	0.32	
22	0.22	0.40	0.65	1.96	0.90	0.32	9.70	7.89	31.96	1.03	0.88	0.33	
23	0.28	0.38	0.45	1.57	0.95	0.29	8.15	12.82	30.23	0.98	0.67	0.34	
24	1.12	0.37	0.41	1.21	0.88	0.40	6.78	15.20	27.59	0.88	1.03	0.37	
25	3.08	0.33	0.38	1.09	0.60	0.40	5.43	16.91	16.46	0.83	0.85	1.24	
26	3.88	0.37	0.38	0.98	0.41	0.41	4.99	19.60	9.92	0.83	1.06	0.75	
27	2.52	0.36	0.37	0.88	0.45	0.42	6.59	15.74	6.98	0.85	0.98	0.50	
28	1.80	0.36	0.32	0.72	0.45	1.24	4.61	10.38	5.32	0.80	0.88	0.49	
29	1.42	0.32	0.28	0.55	2.36	1.88	3.76	7.24	4.11	0.67		0.49	
30	1.12	0.25	0.29	0.50	6.85	2.48	3.04	6.09	3.88	0.67		0.46	
31		0.28		0.49	11.20		3.36		3.72	0.57		0.44	
Total	20.04	57.30	24.34	124.07	33.76	46.86	196.03	190.96	523.84	46.23	37.48	14.78	1315.69 CMSDAY
Mean	0.67	1.85	0.81	4.00	1.09	1.56	6.32	6.37	16.90	1.49	1.34	0.48	3.60 CMS
Max	3.88	8.73	3.64	22.98	11.20	7.57	13.92	19.60	32.94	3.52	3.12	1.24	32.94 CMS
Min	0.21	0.25	0.27	0.29	0.30	0.29	1.42	1.42	3.72	0.57	0.57	0.30	0.21 CMS
Runoff	1.731	4.951	2.103	10.720	2.917	4.049	16.937	16.499	45.260	3.994	3.238	1.277	113.676 MCM

Momentary Peak 35.74 CMS, at 7.47 M (MSL), at 6.00 Hours, on Dec 23, 1996

Runoff Yield 28.38 Liters/Second/Square KM, Momentary Peak Yield 281.417 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Khlong Tan Yong Mat at Rangae, Narathiwat (X.73)

Location	Lat.06°-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	+4.249 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 good. Stage-discharge relation defined by 22 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

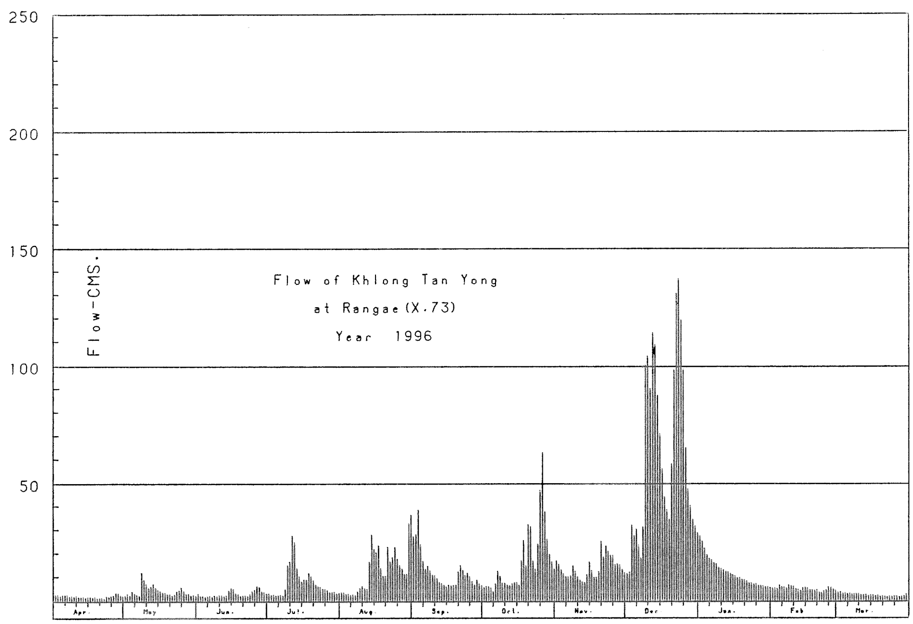
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.74	0.69	0.76	0.76	0.84	2.30	1.03	1.78	1.47	2.32	1.00	0.85	
2	0.71	0.74	0.67	0.73	0.80	2.37	1.04	1.70	1.49	2.23	0.99	0.84	
3	0.69	0.70	0.64	0.70	0.77	2.85	1.06	1.58	2.54	2.07	0.98	0.81	
4	0.70	0.85	0.63	0.70	0.75	2.15	0.99	1.44	2.34	1.95	1.09	0.80	
5	0.74	0.78	0.66	0.72	0.73	1.79	0.87	1.38	2.47	1.85	1.05	0.78	
6	0.71	0.70	0.65	0.69	0.72	1.60	1.18	1.35	2.14	1.80	1.01	0.77	
7	0.67	0.69	0.64	0.70	0.72	1.65	1.52	1.40	1.87	1.75	1.00	0.76	
8	0.67	1.49	0.67	0.93	0.85	1.53	1.39	1.68	2.50	1.70	1.09	0.75	
9	0.66	1.29	0.67	1.69	1.01	1.42	1.17	1.51	5.08	1.63	1.09	0.78	
10	0.66	1.13	0.69	1.76	1.05	1.39	1.17	1.36	5.19	1.59	1.04	0.75	
11	0.64	1.01	0.68	2.34	1.00	1.31	1.13	1.28	4.75	1.55	0.99	0.74	
12	0.63	1.06	0.67	2.19	0.96	1.22	1.10	1.21	5.51	1.53	0.93	0.73	
13	0.62	1.13	0.67	1.61	1.77	1.16	1.15	1.21	5.34	1.50	0.92	0.71	
14	0.60	1.02	0.92	1.36	2.36	1.12	1.21	1.41	4.67	1.47	1.00	0.70	
15	0.60	0.91	1.01	1.24	2.07	1.06	1.19	1.77	4.12	1.43	1.03	0.70	
16	0.60	0.86	0.94	1.27	1.98	1.09	1.12	1.53	3.59	1.38	0.98	0.69	
17	0.60	0.83	0.80	1.29	2.14	1.10	1.80	1.36	3.10	1.34	0.94	0.69	
18	0.60	0.80	0.72	1.48	1.59	1.08	2.23	1.34	2.84	1.33	0.90	0.67	
19	0.56	0.76	0.67	1.37	1.39	1.13	1.66	1.52	2.67	1.30	0.92	0.66	
20	0.58	0.72	0.66	1.25	1.37	1.49	2.57	2.21	3.66	1.27	0.92	0.65	
21	0.57	0.70	0.66	1.14	2.09	1.67	2.51	1.89	5.01	1.24	0.85	0.65	
22	0.56	0.75	0.67	1.07	1.77	1.56	1.80	2.13	6.01	1.20	0.83	0.64	
23	0.64	0.85	0.74	1.02	1.86	1.40	1.57	2.01	6.18	1.17	0.87	0.64	
24	0.64	0.92	0.88	0.98	2.11	1.48	2.17	1.93	5.68	1.15	0.93	0.65	
25	0.64	1.00	0.92	0.93	1.82	1.36	3.21	1.91	5.02	1.14	1.02	0.64	
26	0.67	0.86	1.05	0.89	1.67	1.22	3.86	1.69	3.93	1.11	1.03	0.63	
27	0.81	0.78	1.05	0.85	1.60	1.13	2.82	1.72	3.23	1.10	0.96	0.63	
28	0.78	0.74	0.88	0.84	1.45	1.28	2.25	1.68	2.92	1.06	0.89	0.62	
29	0.70	0.70	0.82	0.83	1.43	1.14	1.96	1.58	2.67	1.05		0.69	
30	0.64	0.69	0.80	0.79	2.59	1.08	1.76	1.47	2.52	1.03		0.74	
31		0.69		0.78	2.74		1.60		2.40	1.00		0.74	
Mean	0.65	0.87	0.76	1.13	1.48	1.47	1.68	1.60	3.64	1.46	0.97	0.71	
Max	0.81	1.49	1.05	2.34	2.74	2.85	3.86	2.21	6.18	2.32	1.09	0.85	6.18
Min	0.56	0.69	0.63	0.69	0.72	1.06	0.87	1.21	1.47	1.00	0.83	0.62	0.56

Annual Max Momentary Gage Height 6.22 M (A.D), at 6.00 Hours, on Dec 23, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.64 M (A.D)

Left Bank Elevation 8.83 M (A.D)

Right Bank Elevation 8.69 M (A.D), Drainage Area 336 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.96	2.51	3.14	3.14	3.94	27.30	6.04	17.15	12.05	27.72	5.70	4.05	
2	2.69	2.96	2.33	2.87	3.50	28.77	6.16	15.75	12.35	25.83	5.59	3.94	
3	2.51	2.60	2.06	2.60	3.23	39.13	6.39	13.70	32.34	22.47	5.48	3.61	
4	2.60	4.05	1.97	2.60	3.05	24.15	5.59	11.60	28.14	20.13	6.74	3.50	
5	2.96	3.32	2.24	2.78	2.87	17.32	4.27	10.70	30.87	18.37	6.27	3.32	
6	2.69	2.60	2.15	2.51	2.78	14.00	7.77	10.25	23.94	17.50	5.81	3.23	
7	2.33	2.51	2.06	2.60	2.78	14.87	12.80	11.00	18.72	16.62	5.70	3.14	
8	2.33	12.35	2.33	4.93	4.05	12.95	10.85	15.40	31.50	15.75	6.74	3.05	
9	2.24	9.35	2.33	15.58	5.81	11.30	7.65	12.65	100.82	14.52	6.74	3.32	
10	2.24	7.19	2.51	16.80	6.27	10.85	7.65	10.40	104.29	13.85	6.16	3.05	
11	2.06	5.81	2.42	28.14	5.70	9.65	7.19	9.20	90.43	13.25	5.59	2.96	
12	1.97	6.39	2.33	24.99	5.26	8.30	6.85	8.15	114.58	12.95	4.93	2.87	
13	1.88	7.19	2.33	14.18	16.97	7.54	7.42	8.15	109.08	12.50	4.82	2.69	
14	1.70	5.93	4.82	10.40	28.56	7.08	8.15	11.15	87.91	12.05	5.70	2.60	
15	1.70	4.71	5.81	8.60	22.47	6.39	7.89	16.97	71.28	11.45	6.04	2.60	
16	1.70	4.16	5.04	9.05	20.65	6.74	7.08	12.95	56.75	10.70	5.48	2.51	
17	1.70	3.83	3.50	9.35	23.94	6.85	17.50	10.40	44.75	10.10	5.04	2.51	
18	1.70	3.50	2.78	12.20	13.85	6.62	25.83	10.10	38.90	9.95	4.60	2.33	
19	1.36	3.14	2.33	10.55	10.85	7.19	15.05	12.80	35.14	9.50	4.82	2.24	
20	1.53	2.78	2.24	8.75	10.55	12.35	32.97	25.41	58.50	9.05	4.82	2.15	
21	1.44	2.60	2.24	7.31	22.89	15.22	31.71	19.07	98.62	8.60	4.05	2.15	
22	1.36	3.05	2.33	6.51	16.97	13.40	17.50	23.73	131.35	8.00	3.83	2.06	
23	2.06	4.05	2.96	5.93	18.55	11.00	13.55	21.21	137.30	7.65	4.27	2.06	
24	2.06	4.82	4.38	5.48	23.31	12.20	24.57	19.77	120.10	7.42	4.93	2.15	
25	2.06	5.70	4.82	4.93	17.85	10.40	47.25	19.42	98.93	7.31	5.93	2.06	
26	2.33	4.16	6.27	4.49	15.22	8.30	63.74	15.58	65.77	6.96	6.04	1.97	
27	3.61	3.32	6.27	4.05	14.00	7.19	38.45	16.10	47.75	6.85	5.26	1.97	
28	3.32	2.96	4.38	3.94	11.75	9.20	26.25	15.40	40.70	6.39	4.49	1.88	
29	2.60	2.60	3.72	3.83	11.45	7.31	20.30	13.70	35.14	6.27		2.51	
30	2.06	2.51	3.50	3.41	33.39	6.62	16.80	12.05	31.92	6.04		2.96	
31		2.51		3.32	36.68		14.00		29.40	5.70		2.96	
Total	65.75	135.16	97.59	245.82	419.14	380.19	525.22	429.91	1939.32	381.45	151.57	84.40	4855.52 CMSDAY
Mean	2.19	4.36	3.25	7.93	13.52	12.67	16.94	14.33	62.56	12.30	5.41	2.72	13.30 CMS
Max	3.61	12.35	6.27	28.14	36.68	39.13	63.74	25.41	137.30	27.72	6.74	4.05	137.30 CMS
Min	1.36	2.51	1.97	2.51	2.78	6.39	4.27	8.15	12.05	5.70	3.83	1.88	1.36 CMS
Runoff	5.681	11.678	8.432	21.239	36.214	32.848	45.379	37.144	167.557	32.957	13.096	7.292	419.517 MCM

Momentary Peak 138.70 CMS, at 6.22 M (A.D), at 6.00 Hours, on Dec 23, 1996

Runoff Yield 39.59 Liters/Second/Square KM, Momentary Peak Yield 412.798 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

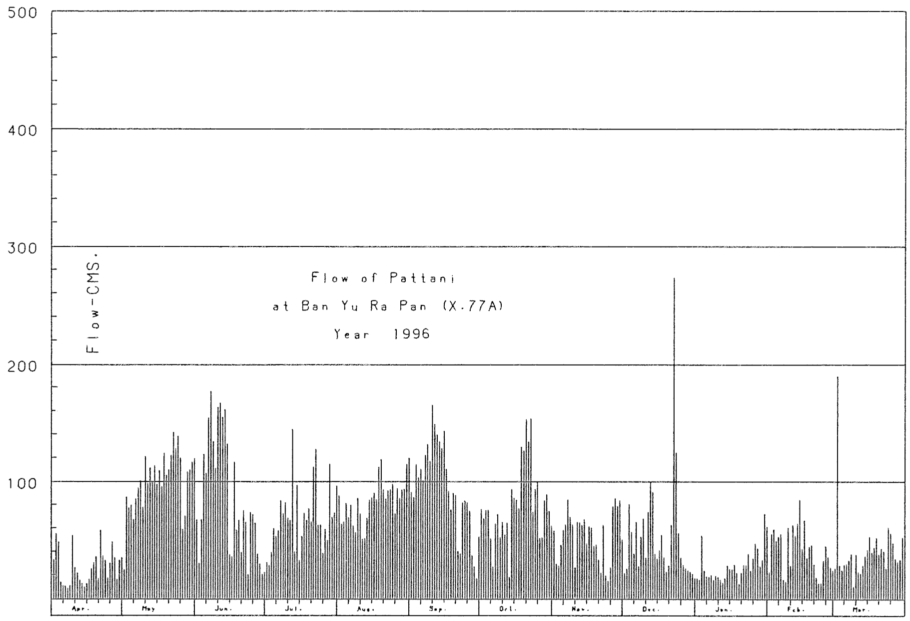
Pattani River at Ban Yu Ra Pan, Yala (X.77A)

Location	Lat. 06°-16′-53″ N., Long. 101°-17′-33″ E., on right bank at the bridge of Yala - Be Thong Highway, Amphoe Ban Nang Sata, Yala.
Drainage Area	2,237 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 7.00 meters from the top staff gage.
Elevation	+6.500 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.66	1.17	0.75	1.37	1.39	1.26	1.07	0.60	0.53	0.62	0.67	
2	1.04	1.36	0.75	0.72	1.14	1.35	1.19	0.74	0.67	0.51	1.04	2.19	
3	0.96	1.27	1.18	0.87	1.15	1.60	1.25	0.71	1.30	1.03	1.09	0.71	
4	0.48	1.29	1.67	1.09	1.31	1.51	1.26	0.94	1.06	0.65	0.98	0.65	
5	0.42	1.18	1.54	1.02	1.20	1.57	1.00	1.08	0.86	0.56	1.02	0.73	
6	0.42	1.34	1.91	1.07	1.29	1.48	0.69	1.13	1.16	0.56	1.04	0.73	
7	0.39	1.43	2.09	1.33	1.12	1.67	1.14	1.34	0.70	0.58	0.51	0.79	
8	0.42	1.48	1.76	1.23	1.05	1.74	1.22	1.20	1.02	0.52	0.49	0.85	
9	1.03	1.28	1.57	1.31	1.35	1.62	1.01	1.13	1.19	0.57	1.10	0.42	
10	0.68	1.66	1.98	1.19	1.23	2.00	1.15	0.69	0.82	0.56	0.72	0.85	
11	0.61	1.46	2.01	1.17	0.99	1.87	1.03	1.16	1.24	0.51	1.13	0.62	
12	0.51	1.58	1.92	1.84	1.00	1.80	1.15	1.15	1.47	0.47	1.03	0.61	
13	0.45	1.48	1.97	0.87	1.19	1.76	0.55	1.13	1.40	0.53	1.14	0.72	
14	0.41	1.59	1.74	1.45	1.33	1.71	1.42	1.18	0.85	0.72	1.34	0.83	
15	0.45	1.45	0.85	0.79	1.35	1.83	1.35	0.95	0.81	0.66	0.90	0.89	
16	0.52	1.56	0.82	1.02	1.39	1.57	1.33	1.12	0.89	0.66	1.17	1.02	
17	0.66	1.44	1.62	1.23	1.34	1.40	1.27	1.10	1.03	0.73	0.82	0.87	
18	0.75	1.68	1.08	1.17	1.58	1.26	1.72	0.93	0.82	0.61	0.92	0.91	
19	0.83	1.52	1.17	1.27	1.64	1.39	1.70	0.94	0.63	0.46	0.94	1.00	
20	0.52	1.56	0.87	1.16	1.41	1.37	1.90	0.80	0.71	0.62	0.73	0.85	
21	1.08	1.67	1.25	1.58	1.34	0.88	1.76	0.61	1.13	0.72	0.55	0.90	
22	0.83	1.82	1.15	1.71	1.41	0.85	1.91	1.13	2.76	0.72	0.46	0.88	
23	0.79	1.71	0.59	1.12	1.41	1.31	1.24	0.57	1.69	0.86	0.47	0.68	
24	0.54	1.79	1.24	1.13	1.46	1.33	1.42	0.50	1.05	0.65	0.78	1.10	
25	0.74	1.65	1.22	0.86	1.23	1.31	1.47	0.69	0.82	0.81	0.93	1.05	
26	0.96	1.08	1.15	1.08	1.42	1.25	1.00	1.28	0.72	0.95	0.82	0.95	
27	0.82	1.21	0.85	0.98	1.35	0.84	1.01	1.35	0.68	0.91	0.69	0.81	
28	0.51	1.55	0.73	1.60	1.41	0.69	1.33	1.29	0.64	0.71	0.64	0.76	
29	0.78	1.56	0.59	1.20	1.42	0.53	1.38	1.33	0.63	0.79		0.80	
30	0.82	1.62	0.61	1.23	1.60	1.01	1.25	0.99	0.59	1.23		1.01	
31		1.64		1.44	1.65		1.12		0.54	1.11		0.89	
Mean	0.67	1.47	1.30	1.18	1.33	1.40	1.27	1.01	0.98	0.69	0.86	0.86	
Max	1.08	1.82	2.09	1.84	1.65	2.00	1.91	1.35	2.76	1.23	1.34	2.19	2.76
Min	0.39	0.66	0.59	0.72	0.99	0.53	0.55	0.50	0.54	0.46	0.46	0.42	0.39

Annual Max Momentary Gage Height 3.70 M (A.D), at 18.00 Hours, on Dec 22, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.66 M (A.D)
Left Bank Elevation 10.21 M (A.D)
Right Bank Elevation 10.10 M (A.D), Drainage Area 2237 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.00	25.60	67.30	31.00	88.70	90.90	76.60	58.30	22.00	17.80	23.20	26.20	
2	55.60	87.60	31.00	29.20	64.60	86.50	69.10	30.40	26.20	16.60	55.60	190.70	
3	48.40	77.70	68.20	40.30	65.50	115.00	75.50	28.60	81.00	54.70	60.10	28.60	
4	14.80	79.90	123.40	60.10	82.10	104.20	76.60	46.60	57.40	25.00	50.20	25.00	
5	11.20	68.20	107.80	53.80	70.00	111.40	52.00	59.20	39.40	19.60	53.80	29.80	
6	11.20	85.40	154.30	58.30	79.90	100.80	27.40	63.70	66.40	19.60	55.60	29.80	
7	9.50	95.30	177.70	84.30	62.80	123.40	64.60	85.40	28.00	20.80	16.60	33.40	
8	11.20	100.80	134.80	73.30	56.50	132.20	72.20	70.00	53.80	17.20	15.40	38.50	
9	54.70	78.80	111.40	82.10	86.50	117.40	52.90	63.70	69.10	20.20	61.00	11.20	
10	26.80	122.20	163.40	69.10	73.30	166.00	65.50	27.40	35.80	19.60	29.20	38.50	
11	22.60	98.60	167.30	67.30	51.10	149.10	54.70	66.40	74.40	16.60	63.70	23.20	
12	16.60	112.60	155.60	145.20	52.00	140.00	65.50	65.50	99.70	14.20	54.70	22.60	
13	13.00	100.80	162.10	40.30	69.10	134.80	19.00	63.70	92.00	17.80	64.60	29.20	
14	10.60	113.80	132.20	97.50	84.30	128.30	94.20	68.20	38.50	29.20	85.40	36.70	
15	13.00	97.50	38.50	33.40	86.50	143.90	86.50	47.50	34.90	25.60	43.00	42.10	
16	17.20	110.20	35.80	53.80	90.90	111.40	84.30	62.80	42.10	25.60	67.30	53.80	
17	25.60	96.40	117.40	73.30	85.40	92.00	77.70	61.00	54.70	29.80	35.80	40.30	
18	31.00	124.60	59.20	67.30	112.60	76.60	129.60	45.70	35.80	22.60	44.80	43.90	
19	36.70	105.40	67.30	77.70	119.80	90.90	127.00	46.60	23.80	13.60	46.60	52.00	
20	17.20	110.20	40.30	66.40	93.10	88.70	153.00	34.00	28.60	23.20	29.80	38.50	
21	59.20	123.40	75.50	112.60	85.40	41.20	134.80	22.60	63.70	29.20	19.00	43.00	
22	36.70	142.60	65.50	128.30	93.10	38.50	154.30	63.70	274.00	29.20	13.60	41.20	
23	33.40	128.30	21.40	62.80	93.10	82.10	74.40	20.20	125.80	39.40	14.20	26.80	
24	18.40	138.70	74.40	63.70	98.60	84.30	94.20	16.00	56.50	25.00	32.80	61.00	
25	30.40	121.00	72.20	39.40	73.30	82.10	99.70	27.40	35.80	34.90	45.70	56.50	
26	48.40	59.20	65.50	59.20	94.20	75.50	52.00	78.80	29.20	47.50	35.80	47.50	
27	35.80	71.10	38.50	50.20	86.50	37.60	52.90	86.50	26.80	43.90	27.40	34.90	
28	16.60	109.00	29.80	115.00	93.10	27.40	84.30	79.90	24.40	28.60	24.40	31.60	
29	32.80	110.20	21.40	70.00	94.20	17.80	89.80	84.30	23.80	33.40		34.00	
30	35.80	117.40	22.60	73.30	115.00	52.90	75.50	51.10	21.40	73.30		52.90	
31		119.80		96.40	121.00		62.80		18.40	61.90		42.10	
Total	828.40	3132.30	2601.80	2174.60	2622.20	2842.90	2498.60	1625.20	1703.40	895.60	1169.30	1305.50	23399.80 CMSDAY
Mean	27.61	101.04	86.73	70.15	84.59	94.76	80.60	54.17	54.95	28.89	41.76	42.11	64.11 CMS
Max	59.20	142.60	177.70	145.20	121.00	166.00	154.30	86.50	274.00	73.30	85.40	190.70	274.00 CMS
Min	9.50	25.60	21.40	29.20	51.10	17.80	19.00	16.00	18.40	13.60	13.60	11.20	9.50 CMS
Runoff	71.574	270.631	224.796	187.885	226.558	245.627	215.879	140.417	147.174	77.380	101.028	112.795	2021.743 MCM

Momentary Peak 448.00 CMS, at 3.70 M (A.D), at 18.00 Hours, on Dec 22, 1996
Runoff Yield 28.66 Liters/Second/Square KM, Momentary Peak Yield 200.268 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

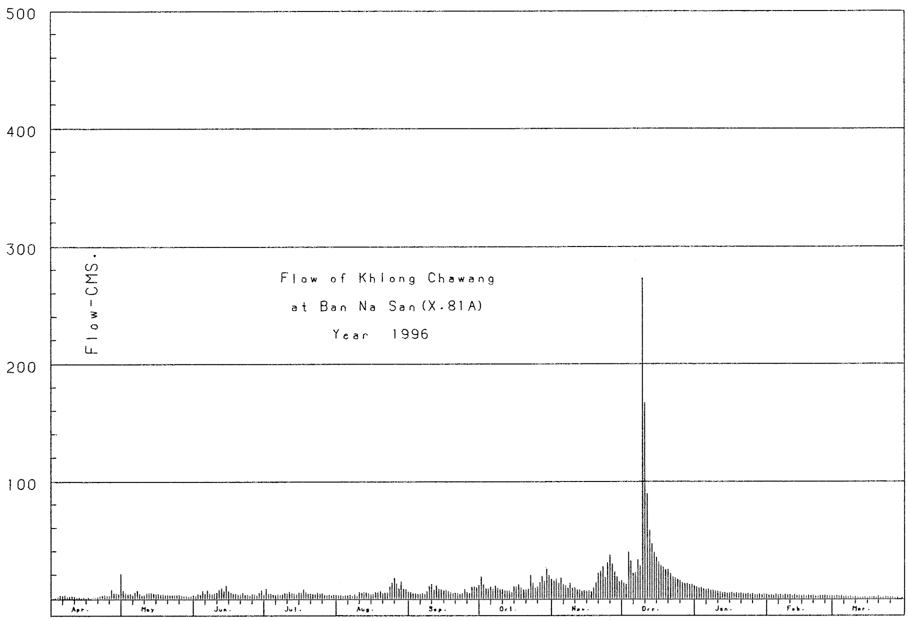
Khlong Chawang at Ban Na San, Surat Thani (X.81A)

Location	Lat. 08°-48′-23″ N., Long. 99°-22′-18″ E., on right bank at Wat Ban Na San, Amphoe Ban Na San, Surat Thani.
Drainage Area	220 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 Wat Ban Na San's wall.
Elevation	+5.539 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	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Farly stable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.67	1.05	0.83	1.14	0.85	0.99	1.47	1.38	1.30	1.05	0.80	0.75	
2	0.67	0.93	0.88	0.95	0.83	0.96	1.27	1.41	1.29	1.04	0.79	0.75	
3	0.74	0.89	0.88	0.92	0.82	0.94	1.18	1.32	1.99	1.03	0.79	0.75	
4	0.80	0.88	1.05	0.89	0.81	0.93	1.14	1.43	1.78	1.01	0.83	0.74	
5	0.83	0.85	0.95	0.86	0.83	0.94	1.23	1.29	1.55	0.99	0.80	0.73	
6	0.80	0.98	1.10	0.86	0.84	0.92	1.13	1.24	1.55	0.98	0.79	0.72	
7	0.75	1.09	0.92	0.86	0.81	0.92	1.25	1.19	1.83	0.97	0.79	0.72	
8	0.75	0.89	0.91	0.86	0.85	1.03	1.17	1.30	1.68	0.95	0.80	0.72	
9	0.79	0.83	0.90	0.97	0.81	1.24	1.13	1.19	3.02	0.95	0.81	0.71	
10	0.73	0.80	0.96	0.91	0.99	1.27	1.10	1.18	2.59	0.92	0.79	0.70	
11	0.72	0.96	1.13	1.01	0.99	1.09	1.09	1.13	2.17	0.91	0.78	0.70	
12	0.73	0.98	1.18	0.99	0.99	1.26	1.08	1.10	1.91	0.90	0.79	0.70	
13	0.70	0.95	1.07	0.93	1.01	1.12	1.05	1.07	1.76	0.89	0.78	0.70	
14	0.68	0.94	1.26	0.90	0.92	1.14	1.02	1.06	1.67	0.89	0.77	0.69	
15	0.70	0.87	1.07	1.00	0.90	1.09	1.22	1.07	1.59	0.89	0.77	0.69	
16	0.68	0.89	0.96	0.95	0.88	1.08	1.22	1.06	1.53	0.88	0.76	0.69	
17	0.67	0.88	0.94	1.13	1.01	1.06	1.28	1.04	1.48	0.87	0.76	0.71	
18	0.70	0.87	0.90	0.98	0.96	0.99	1.17	1.18	1.44	0.88	0.76	0.70	
19	0.73	0.85	0.88	0.94	1.05	0.96	1.12	1.33	1.41	0.87	0.77	0.70	
20	0.76	0.83	0.86	0.90	0.93	0.95	1.09	1.54	1.40	0.85	0.76	0.74	
21	0.76	0.86	0.96	0.88	0.95	0.93	1.13	1.58	1.35	0.85	0.75	0.70	
22	0.83	0.85	0.86	0.90	1.00	0.91	1.51	1.68	1.28	0.84	0.75	0.70	
23	0.81	0.82	0.85	0.96	1.23	0.92	1.30	1.46	1.25	0.84	0.75	0.73	
24	0.82	0.85	0.83	0.94	1.31	1.15	1.20	1.75	1.23	0.83	0.77	0.69	
25	0.77	0.82	0.89	0.92	1.44	0.99	1.21	1.91	1.19	0.83	0.76	0.72	
26	1.09	0.81	0.86	0.87	1.29	0.99	1.34	1.74	1.15	0.82	0.75	0.69	
27	0.96	0.80	0.83	0.85	1.17	1.22	1.48	1.58	1.14	0.81	0.75	0.68	
28	0.91	0.77	0.98	0.84	1.34	1.22	1.35	1.45	1.13	0.81	0.75	0.67	
29	0.91	0.76	1.07	0.83	1.15	1.21	1.64	1.35	1.12	0.81		0.67	
30	1.54	0.75	0.89	0.84	1.10	1.25	1.49	1.36	1.11	0.81		0.66	
31		0.82		0.83	1.05		1.40		1.10	0.81		0.66	
Mean	0.80	0.87	0.95	0.92	1.00	1.06	1.24	1.35	1.55	0.90	0.78	0.71	
Max	1.54	1.09	1.26	1.14	1.44	1.27	1.64	1.91	3.02	1.05	0.83	0.75	3.02
Min	0.67	0.75	0.83	0.83	0.81	0.91	1.02	1.04	1.10	0.81	0.75	0.66	0.66

Annual Max Momentary Gage Height	3.90 M (AD), at 19.00 Hours, on Dec 9, 1996
Zero Gage at Bottom Elevation	0.00 M (AD), River Bed 0.15 M (AD)
Left Bank Elevation	7.57 M (AD)
Right Bank Elevation	5.87 M (AD), Drainage Area 220 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	7.00	3.45	8.80	3.75	5.85	19.45	16.30	13.50	10.50	4.00	3.00	
2	1.05	4.95	4.20	5.25	3.45	5.40	12.45	17.35	13.15	10.20	3.80	3.00	
3	2.10	4.35	4.20	4.80	3.30	5.10	9.60	14.20	40.60	9.90	3.80	3.00	
4	3.00	4.20	7.00	4.35	3.15	4.95	8.80	18.05	32.20	9.30	4.60	2.80	
5	3.45	3.75	5.25	3.90	3.45	5.10	11.05	13.15	22.50	8.70	4.00	2.60	
6	3.00	5.70	8.00	3.90	3.60	4.80	8.60	11.40	22.50	8.40	3.80	2.40	
7	2.25	7.80	4.80	3.90	3.15	4.80	11.75	9.80	34.20	8.10	3.80	2.40	
8	2.25	4.35	4.65	3.90	3.75	6.60	9.40	13.50	28.10	7.50	4.00	2.40	
9	2.85	3.45	4.50	5.55	3.15	11.40	8.60	9.80	273.80	7.50	4.20	2.20	
10	1.95	3.00	5.40	4.65	5.85	12.45	8.00	9.60	167.00	6.60	3.80	2.00	
11	1.80	5.40	8.60	6.20	5.85	7.80	7.80	8.60	90.50	6.30	3.60	2.00	
12	1.95	5.70	9.60	5.85	5.85	12.10	7.60	8.00	59.10	6.00	3.80	2.00	
13	1.50	5.25	7.40	4.95	6.20	8.40	7.00	7.40	46.80	5.80	3.60	2.00	
14	1.20	5.10	12.10	4.50	4.80	8.80	6.40	7.20	40.20	5.80	3.40	1.80	
15	1.50	4.05	7.40	6.00	4.50	7.80	10.70	7.40	35.40	5.80	3.40	1.80	
16	1.20	4.35	5.40	5.25	4.20	7.60	10.70	7.20	31.80	5.60	3.20	1.80	
17	1.05	4.20	5.10	8.60	6.20	7.20	12.80	6.80	29.00	5.40	3.20	2.20	
18	1.50	4.05	4.50	5.70	5.40	5.85	9.40	9.60	27.00	5.60	3.20	2.00	
19	1.95	3.75	4.20	5.10	7.00	5.40	8.40	14.55	25.50	5.40	3.40	2.00	
20	2.40	3.45	3.90	4.50	4.95	5.25	7.80	22.10	25.00	5.00	3.20	2.80	
21	2.40	3.90	5.40	4.20	5.25	4.95	8.60	23.70	22.50	5.00	3.00	2.00	
22	3.45	3.75	3.90	4.50	6.00	4.65	20.90	28.10	19.20	4.80	3.00	2.00	
23	3.15	3.30	3.75	5.40	11.05	4.80	13.50	19.10	18.00	4.80	3.00	2.60	
24	3.30	3.75	3.45	5.10	13.85	9.00	10.00	31.00	17.20	4.60	3.40	1.80	
25	2.55	3.30	4.35	4.80	18.40	5.85	10.35	37.40	15.60	4.60	3.20	2.40	
26	7.80	3.15	3.90	4.05	13.15	5.85	14.90	30.60	14.00	4.40	3.00	1.80	
27	5.40	3.00	3.45	3.75	9.40	10.70	19.80	23.70	13.60	4.20	3.00	1.60	
28	4.65	2.55	5.70	3.60	14.90	10.70	15.25	18.75	13.20	4.20	3.00	1.40	
29	4.65	2.40	7.40	3.45	9.00	10.35	26.30	15.25	12.80	4.20		1.40	
30	22.10	2.25	4.35	3.60	8.00	11.75	20.15	15.60	12.40	4.20		1.20	
31		3.30		3.45	7.00		17.00		12.00	4.20		1.20	
Total	98.45	128.50	165.30	151.55	207.55	221.25	373.05	475.20	1228.35	192.60	98.40	65.60	3405.80 CMSDAY
Mean	3.28	4.15	5.51	4.89	6.70	7.38	12.03	15.84	39.62	6.21	3.51	2.12	9.33 CMS
Max	22.10	7.80	12.10	8.80	18.40	12.45	26.30	37.40	273.80	10.50	4.60	3.00	273.80 CMS
Min	1.05	2.25	3.45	3.45	3.15	4.65	6.40	6.80	12.00	4.20	3.00	1.20	1.05 CMS
Runoff	8.506	11.102	14.282	13.094	17.932	19.116	32.232	41.057	106.129	16.641	8.502	5.668	294.261 MCM

Momentary Peak 569.00 CMS, at 3.90 M (AD), at 19.00 Hours, on Dec 9, 1996
Runoff Yield 42.41 Liters/Second/Square KM, Momentary Peak Yield 2586.364 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

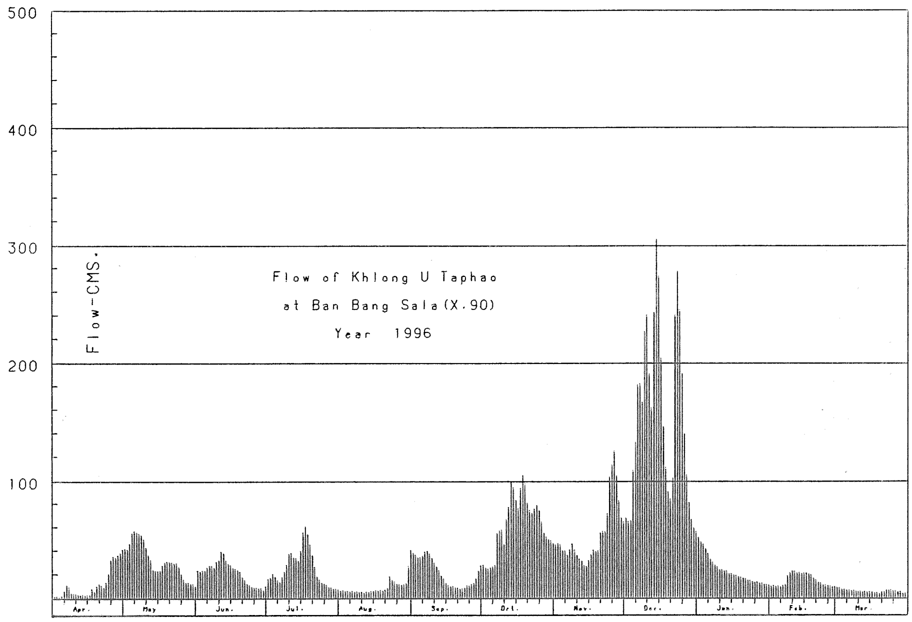
Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)

Location	Lat.06°55'39" N., Long. 100°26'37" E., on left bank at the bridge, Wat Bang Sala, Tombon Thung Lan, Amphoe Hat Yai, Songkhla.
Drainage Area	1,562 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.68 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 20 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.04	3.71	2.68	2.24	1.55	3.57	2.94	3.87	5.00	4.20	1.87	1.79	
2	1.03	3.72	2.66	2.34	1.53	3.43	2.84	3.98	4.86	4.04	1.86	1.74	
3	1.02	3.93	2.67	2.51	1.51	3.34	2.75	3.90	4.91	3.91	1.85	1.67	
4	1.04	4.42	2.71	2.41	1.49	3.31	2.85	3.67	6.38	3.74	1.84	1.62	
5	1.56	4.48	2.82	2.17	1.48	3.41	2.89	3.63	6.86	3.51	1.83	1.60	
6	1.93	4.46	2.95	2.10	1.48	3.58	2.92	3.46	7.48	3.26	1.86	1.57	
7	1.81	4.37	2.91	2.34	1.46	3.65	4.36	3.66	7.49	3.08	1.95	1.56	
8	1.37	4.33	2.84	2.65	1.45	3.49	4.52	3.95	7.33	2.97	2.41	1.54	
9	1.28	4.13	3.09	2.94	1.43	3.31	4.52	3.66	7.85	2.85	2.59	1.51	
10	1.24	3.80	3.21	3.52	1.40	3.04	3.92	3.45	7.94	2.74	2.68	1.48	
11	1.21	3.45	3.60	3.53	1.38	2.89	4.96	3.24	7.58	2.70	2.63	1.46	
12	1.19	3.18	3.54	3.34	1.42	2.68	5.35	3.17	7.27	2.68	2.58	1.44	
13	1.17	2.73	3.16	3.26	1.44	2.44	6.14	2.91	7.96	2.65	2.57	1.43	
14	1.16	2.65	3.03	3.18	1.46	2.26	5.95	2.91	8.32	2.55	2.56	1.42	
15	1.16	2.64	2.93	3.62	1.52	2.04	5.61	3.15	8.15	2.52	2.55	1.40	
16	1.21	2.70	2.84	4.42	1.54	1.88	5.31	3.47	7.68	2.48	2.54	1.39	
17	1.66	2.92	2.76	4.70	1.55	1.86	5.93	3.66	7.07	2.44	2.53	1.37	
18	1.48	3.10	2.73	4.37	1.55	1.83	6.29	3.63	6.43	2.40	2.47	1.35	
19	1.81	3.11	2.62	3.89	1.56	1.78	6.06	3.63	5.85	2.34	2.33	1.30	
20	1.99	3.11	2.38	3.45	1.57	1.74	5.52	4.42	5.62	2.31	2.19	1.40	
21	1.86	3.07	2.18	2.85	1.76	1.70	5.25	4.46	6.23	2.26	2.09	1.47	
22	1.79	3.05	2.01	2.41	2.39	1.68	5.17	4.47	7.94	2.21	2.02	1.54	
23	2.05	3.04	1.89	2.21	2.21	1.77	5.30	5.13	8.18	2.16	1.93	1.59	
24	2.54	2.87	1.83	2.06	2.09	1.87	5.44	6.24	7.97	2.13	1.91	1.58	
25	3.22	2.54	1.79	2.02	2.00	1.88	5.26	6.49	7.58	2.09	1.89	1.54	
26	3.36	2.21	1.75	1.90	1.94	1.94	4.85	6.72	6.98	2.06	1.85	1.49	
27	3.34	2.07	1.74	1.81	1.93	2.05	4.42	6.28	6.28	2.03	1.83	1.46	
28	3.41	2.03	1.72	1.75	1.92	2.25	4.22	5.57	5.53	2.00	1.80	1.42	
29	3.56	2.01	1.60	1.71	2.02	2.68	4.14	5.01	4.92	1.97		1.33	
30	3.68	1.96	1.82	1.65	2.89	2.91	4.06	4.85	4.63	1.92		1.28	
31		1.86		1.60	3.65		3.96		4.44	1.89		1.27	
Mean	1.87	3.15	2.55	2.74	1.76	2.54	4.64	4.22	6.73	2.65	2.18	1.48	
Max	3.68	4.48	3.60	4.70	3.65	3.65	6.29	6.72	8.32	4.20	2.68	1.79	8.32
Min	1.02	1.86	1.60	1.60	1.38	1.68	2.75	2.91	4.44	1.89	1.80	1.27	1.02

Annual Max Momentary Gage Height 8.32 M (MSL), at 8.00 Hours, on Dec 14, 1996
Zero Gage at Bottom Elevation 0.68 M (MSL), River Bed 0.63 M (MSL)
Left Bank Elevation 11.47 M (MSL)
Right Bank Elevation 11.31 M (MSL), Drainage Area 1562 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.90	42.20	23.90	16.60	7.00	39.47	28.45	45.40	69.00	52.00	11.05	9.85	
2	1.80	42.40	23.55	18.10	6.80	37.03	26.70	47.60	65.50	48.80	10.90	9.10	
3	1.70	46.60	23.72	20.92	6.60	35.45	25.12	46.00	66.75	46.20	10.75	8.20	
4	1.90	56.40	24.42	19.17	6.40	34.93	26.87	41.40	109.20	42.80	10.60	7.70	
5	7.10	57.60	26.35	15.55	6.30	36.68	27.57	40.60	133.60	38.43	10.45	7.50	
6	11.95	57.20	28.62	14.50	6.30	39.65	28.10	37.55	182.00	34.05	10.90	7.20	
7	10.15	55.40	27.93	18.10	6.10	41.00	55.20	41.20	183.00	30.90	12.25	7.10	
8	5.20	54.60	26.70	23.37	6.00	38.08	58.40	47.00	167.70	28.97	19.17	6.90	
9	4.30	50.60	31.07	28.45	5.80	34.93	58.40	41.20	227.50	26.87	22.32	6.60	
10	3.90	44.00	33.18	38.60	5.50	30.20	46.40	37.38	241.00	24.95	23.90	6.30	
11	3.60	37.38	40.00	38.78	5.30	27.57	68.00	33.70	192.00	24.25	23.03	6.10	
12	3.40	32.65	38.95	35.45	5.70	23.90	77.75	32.48	162.30	23.90	22.15	5.90	
13	3.20	24.77	32.30	34.05	5.90	19.70	100.20	27.93	244.00	23.37	21.97	5.80	
14	3.10	23.37	30.02	32.65	6.10	16.90	94.50	27.93	306.00	21.62	21.80	5.70	
15	3.10	23.20	28.28	40.40	6.70	13.60	84.30	32.13	274.00	21.10	21.62	5.50	
16	3.60	24.25	26.70	56.40	6.90	11.20	76.75	37.73	204.40	20.40	21.45	5.40	
17	8.10	28.10	25.30	62.00	7.00	10.90	93.90	41.20	146.90	19.70	21.27	5.20	
18	6.30	31.25	24.77	55.40	7.00	10.45	105.60	40.60	111.50	19.00	20.22	5.00	
19	10.15	31.42	22.85	45.80	7.10	9.70	97.80	40.60	91.50	18.10	17.95	4.50	
20	12.85	31.42	18.70	37.38	7.20	9.10	82.00	56.40	84.60	17.65	15.85	5.50	
21	10.90	30.72	15.70	26.87	9.40	8.50	75.25	57.20	103.20	16.90	14.35	6.20	
22	9.85	30.37	13.15	19.17	18.85	8.30	73.25	57.40	241.00	16.15	13.30	6.90	
23	13.75	30.20	11.35	16.15	16.15	9.55	76.50	72.25	278.80	15.40	11.95	7.40	
24	21.45	27.22	10.45	13.90	14.35	11.05	80.00	103.60	245.50	14.95	11.65	7.30	
25	33.35	21.45	9.85	13.30	13.00	11.20	75.50	114.50	192.00	14.35	11.35	6.90	
26	35.80	16.15	9.25	11.50	12.10	12.10	65.25	126.00	140.80	13.90	10.75	6.40	
27	35.45	14.05	9.10	10.15	11.95	13.75	56.40	105.20	105.20	13.45	10.45	6.10	
28	36.68	13.45	8.80	9.25	11.80	16.75	52.40	83.25	82.25	13.00	10.00	5.70	
29	39.30	13.15	7.50	8.65	13.30	23.90	50.80	69.25	67.00	12.55		4.80	
30	41.60	12.40	10.30	8.00	27.57	27.93	49.20	65.25	60.60	11.80		4.30	
31		10.90		7.50	41.00		47.20		56.80	11.35		4.20	
Total	385.43	1014.87	662.76	796.11	317.17	663.47	1963.76	1649.93	4835.60	736.86	443.40	197.25	13666.61 CMSDAY
Mean	12.85	32.74	22.09	25.68	10.23	22.12	63.35	55.00	155.99	23.77	15.84	6.36	37.44 CMS
Max	41.60	57.60	40.00	62.00	41.00	41.00	105.60	126.00	306.00	52.00	23.90	9.85	306.00 CMS
Min	1.70	10.90	7.50	7.50	5.30	8.30	25.12	27.93	56.80	11.35	10.00	4.20	1.70 CMS
Runoff	33.301	87.685	57.262	68.784	27.403	57.324	169.669	142.554	417.796	63.665	38.310	17.042	1180.795 MCM

Momentary Peak 306.00 CMS, at 8.32 M (MSL), at 8.00 Hours, on Dec 14, 1996

Runoff Yield 23.97 Liters/Second/Square KM, Momentary Peak Yield 195.903 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)

Location	Lat.09°-25′-31″ N., Long. 99°-09′-44″ E., on left bank at Ban Rim Khlong, Amphoe Chaiya, Surat Thani.
Drainage Area	180 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+7.20 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 35 meters from the top staff gage.
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 fair. Stage-discharge relation defined by 60 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

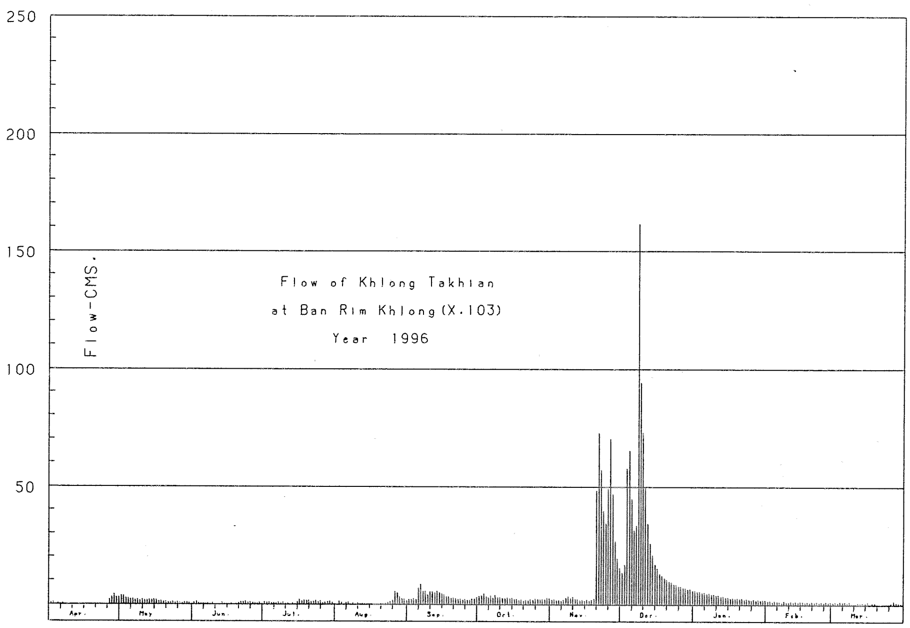
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.01	8.73	7.92	8.03	7.71	8.37	8.66	8.43	9.87	9.00	8.25	8.04	
2	7.96	8.68	8.19	8.05	8.17	8.44	8.73	8.40	10.14	8.98	8.21	8.03	
3	7.90	8.57	7.88	8.02	8.07	8.47	8.81	8.33	11.87	8.94	8.16	8.01	
4	7.89	8.48	7.91	7.98	7.78	8.45	8.67	8.27	12.07	8.91	8.21	8.09	
5	7.86	8.43	7.90	7.98	8.02	9.17	8.60	8.26	11.50	8.88	8.22	8.10	
6	7.85	8.39	7.86	7.98	7.99	9.35	8.67	8.33	10.97	8.85	8.05	8.07	
7	7.82	8.36	7.89	7.97	7.90	8.99	8.58	8.59	11.06	8.83	8.06	8.01	
8	7.79	8.32	7.88	7.97	7.89	8.94	8.71	8.63	13.76	8.80	8.19	8.08	
9	7.78	8.30	7.91	7.95	7.89	8.77	8.61	8.55	12.71	8.77	8.10	7.92	
10	7.77	8.34	7.88	7.95	7.92	8.92	8.55	8.60	12.25	8.75	8.10	7.87	
11	7.76	8.31	7.77	7.87	7.94	8.93	8.54	8.48	11.65	8.71	8.11	7.86	
12	7.76	8.31	7.77	7.89	7.79	8.90	8.53	8.41	11.11	8.68	8.10	7.95	
13	7.71	8.29	7.98	7.89	7.95	8.97	8.53	8.34	10.69	8.65	8.10	7.97	
14	7.68	8.33	7.86	7.91	7.91	8.92	8.53	8.35	10.38	8.62	8.10	7.91	
15	7.66	8.32	7.86	8.14	7.83	8.83	8.49	8.28	10.16	8.59	8.09	7.98	
16	7.83	8.28	7.81	8.33	7.72	8.74	8.44	8.33	10.00	8.56	8.08	8.04	
17	7.79	8.22	7.85	8.23	7.70	8.66	8.39	8.28	9.84	8.53	8.07	7.88	
18	7.76	8.15	7.76	8.26	7.68	8.60	8.34	8.30	9.74	8.53	8.07	7.91	
19	7.76	8.10	7.95	8.30	7.67	8.55	8.33	8.52	9.68	8.50	8.06	8.02	
20	7.78	8.06	8.03	8.24	7.79	8.50	8.30	11.61	9.61	8.50	8.06	7.88	
21	7.77	8.05	8.06	8.19	7.82	8.45	8.29	12.25	9.54	8.48	8.06	7.90	
22	7.69	8.07	8.12	8.18	7.95	8.44	8.31	11.86	9.47	8.44	8.05	7.87	
23	7.67	8.02	8.11	8.23	8.03	8.39	8.37	11.31	9.40	8.44	8.05	7.83	
24	7.67	8.01	8.03	8.13	8.07	8.38	8.38	11.12	9.34	8.43	8.04	7.83	
25	7.74	7.98	8.00	8.17	8.33	8.38	8.42	11.63	9.29	8.38	8.04	7.84	
26	8.35	7.98	8.04	7.97	8.94	8.37	8.47	12.18	9.23	8.37	8.06	7.87	
27	8.62	7.97	7.97	7.97	8.89	8.36	8.42	11.57	9.20	8.34	8.05	8.15	
28	8.76	7.96	7.95	8.17	8.61	8.42	8.40	10.73	9.14	8.33	8.05	8.06	
29	8.62	8.11	7.95	8.12	8.48	8.48	8.42	10.29	9.11	8.33		7.88	
30	8.56	7.86	7.93	8.05	8.39	8.55	8.51	10.01	9.08	8.30		7.87	
31		7.87		7.72	8.31		8.49		9.04	8.30		7.88	
Mean	7.92	8.22	7.93	8.06	8.04	8.66	8.50	9.47	10.35	8.60	8.10	7.95	
Max	8.76	8.73	8.19	8.33	8.94	9.35	8.81	12.25	13.76	9.00	8.25	8.15	13.76
Min	7.66	7.86	7.76	7.72	7.67	8.36	8.29	8.26	9.04	8.30	8.04	7.83	7.66

Annual Max Momentary Gage Height 13.87 M (MSL), at 14.00 Hours, on Dec 8, 1996

Zero Gage at Bottom Elevation 7.20 M (MSL), River Bed 6.97 M (MSL)

Left Bank Elevation 13.96 M (MSL)

Right Bank Elevation 14.97 M (MSL), Drainage Area 180 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.03	4.11	0.76	1.09	0.22	2.20	3.62	2.44	13.84	6.00	1.78	1.12	
2	0.88	3.76	1.57	1.15	1.51	2.48	4.11	2.30	17.22	5.86	1.64	1.09	
3	0.70	3.06	0.64	1.06	1.21	2.62	4.67	2.06	57.80	5.58	1.48	1.03	
4	0.67	2.66	0.73	0.94	0.36	2.53	3.69	1.85	65.80	5.37	1.64	1.27	
5	0.58	2.44	0.70	0.94	1.06	7.19	3.20	1.81	45.15	5.16	1.67	1.30	
6	0.55	2.27	0.58	0.94	0.97	8.60	3.69	2.06	31.63	4.95	1.15	1.21	
7	0.46	2.16	0.67	0.91	0.70	5.93	3.11	3.15	33.52	4.81	1.18	1.03	
8	0.38	2.02	0.64	0.91	0.67	5.58	3.97	3.41	162.00	4.60	1.57	1.24	
9	0.36	1.95	0.73	0.85	0.67	4.39	3.27	2.98	94.50	4.39	1.30	0.76	
10	0.34	2.09	0.64	0.85	0.76	5.44	2.98	3.20	73.00	4.25	1.30	0.61	
11	0.32	1.99	0.34	0.61	0.82	5.51	2.93	2.66	49.75	3.97	1.33	0.58	
12	0.32	1.99	0.34	0.67	0.38	5.30	2.88	2.35	34.62	3.76	1.30	0.85	
13	0.22	1.92	0.94	0.67	0.85	5.79	2.88	2.09	26.42	3.55	1.30	0.91	
14	0.16	2.06	0.58	0.73	0.73	5.44	2.88	2.13	21.06	3.34	1.30	0.73	
15	0.12	2.02	0.58	1.42	0.49	4.81	2.70	1.88	17.48	3.15	1.27	0.94	
16	0.49	1.88	0.43	2.06	0.24	4.18	2.48	2.06	15.40	3.02	1.24	1.12	
17	0.38	1.67	0.55	1.70	0.20	3.62	2.27	1.88	13.48	2.88	1.21	0.64	
18	0.32	1.45	0.32	1.81	0.16	3.20	2.09	1.95	12.28	2.88	1.21	0.73	
19	0.32	1.30	0.85	1.95	0.14	2.98	2.06	2.84	11.56	2.75	1.18	1.06	
20	0.36	1.18	1.09	1.74	0.38	2.75	1.95	48.35	10.72	2.75	1.18	0.64	
21	0.34	1.15	1.18	1.57	0.46	2.53	1.92	73.00	10.12	2.66	1.18	0.70	
22	0.18	1.21	1.36	1.54	0.85	2.48	1.99	57.40	9.56	2.48	1.15	0.61	
23	0.14	1.06	1.33	1.70	1.09	2.27	2.20	39.74	9.00	2.48	1.15	0.49	
24	0.14	1.03	1.09	1.39	1.21	2.23	2.23	34.84	8.52	2.44	1.12	0.49	
25	0.28	0.94	1.00	1.51	2.06	2.23	2.39	49.05	8.12	2.23	1.12	0.52	
26	2.13	0.94	1.12	0.91	5.58	2.20	2.62	70.20	7.64	2.20	1.18	0.61	
27	3.34	0.91	0.91	0.91	5.23	2.16	2.39	47.14	7.40	2.09	1.15	1.45	
28	4.32	0.88	0.85	1.51	3.27	2.39	2.30	27.14	6.98	2.06	1.15	1.18	
29	3.34	1.33	0.85	1.36	2.66	2.66	2.39	19.53	6.77	2.06		0.64	
30	3.02	0.58	0.79	1.15	2.27	2.98	2.80	15.53	6.56	1.95		0.61	
31		0.61		0.24	1.99		2.70		6.28	1.95		0.64	
Total	26.19	54.62	24.16	36.79	39.19	114.67	87.36	527.02	894.18	107.62	36.43	26.80	1975.03 CMSDAY
Mean	0.87	1.76	0.81	1.19	1.26	3.82	2.82	17.57	28.84	3.47	1.30	0.86	5.41 CMS
Max	4.32	4.11	1.57	2.06	5.58	8.60	4.67	73.00	162.00	6.00	1.78	1.45	162.00 CMS
Min	0.12	0.58	0.32	0.24	0.14	2.16	1.92	1.81	6.28	1.95	1.12	0.49	0.12 CMS
Runoff	2.263	4.719	2.087	3.179	3.386	9.907	7.548	45.535	77.257	9.298	3.148	2.316	170.643 MCM

Momentary Peak 170.60 CMS, at 13.87 M (MSL), at 14.00 Hours, on Dec 8, 1996

Runoff Yield 30.06 Liters/Second/Square KM, Momentary Peak Yield 947.778 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)

Location — Lat.09°-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 — +6.70 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 10 meters downstream from the top staff gage.

Elevation — +15.446 m.(M.S.L.)

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

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

Period of Available Gage Records — 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.

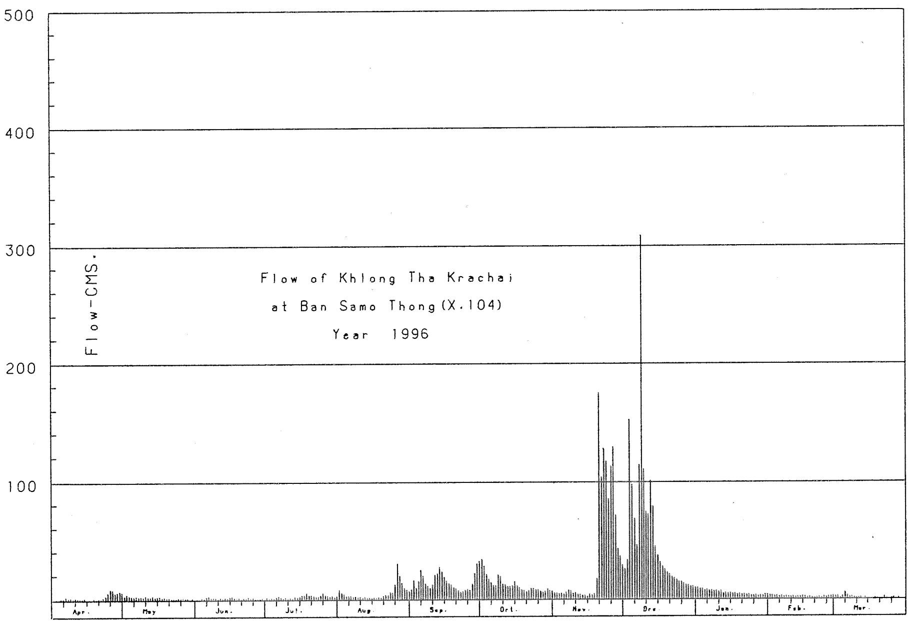
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 46 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.90	7.15	6.93	6.98	7.41	7.42	8.42	7.28	8.16	7.48	7.16	7.07	
2	6.89	7.20	6.92	6.97	7.30	7.78	8.23	7.25	8.41	7.47	7.10	7.07	
3	6.89	7.16	6.94	6.95	7.20	7.50	7.99	7.24	10.54	7.44	7.10	6.98	
4	6.92	7.11	7.00	6.98	7.12	7.77	7.81	7.23	9.69	7.41	7.09	7.04	
5	6.96	7.07	7.07	7.05	7.11	8.13	7.71	7.22	9.22	7.40	7.08	7.29	
6	7.04	7.08	7.05	7.07	7.07	7.92	7.60	7.28	8.71	7.39	7.07	7.10	
7	7.00	7.08	7.01	7.00	7.06	7.67	7.56	7.41	9.98	7.37	7.05	7.05	
8	6.98	7.04	6.97	6.99	7.05	7.54	7.98	7.34	12.28	7.37	7.04	7.02	
9	6.98	7.05	6.97	6.98	7.04	7.49	7.90	7.26	9.91	7.35	7.05	7.00	
10	6.98	7.10	6.97	6.97	7.03	7.60	7.62	7.25	9.31	7.33	7.05	6.98	
11	6.97	7.08	6.97	6.96	7.02	7.95	7.63	7.21	9.27	7.34	7.04	6.97	
12	6.97	7.06	6.99	6.98	7.02	8.02	7.55	7.16	9.76	7.25	7.03	6.96	
13	6.95	7.10	6.98	7.03	7.02	8.21	7.53	7.13	9.40	7.25	7.03	6.95	
14	6.95	7.05	7.01	7.05	6.99	8.09	7.59	7.11	8.69	7.25	7.06	6.95	
15	6.90	7.03	7.07	7.11	6.98	7.91	7.72	7.09	8.51	7.25	7.06	6.94	
16	6.90	7.05	7.04	7.12	6.98	7.75	7.59	7.17	8.34	7.24	7.03	6.93	
17	6.92	7.03	6.98	7.16	7.00	7.67	7.48	7.17	8.24	7.22	7.02	6.93	
18	6.94	7.00	6.98	7.25	7.00	7.60	7.43	7.20	8.13	7.21	7.01	6.93	
19	6.93	6.99	6.97	7.17	7.02	7.52	7.37	7.85	8.06	7.20	7.01	6.93	
20	6.95	6.98	6.97	7.12	7.08	7.45	7.34	10.84	7.98	7.19	6.99	6.93	
21	6.95	6.98	6.99	7.11	7.14	7.38	7.37	9.81	7.91	7.18	6.99	6.94	
22	7.00	6.97	6.99	7.07	7.17	7.32	7.48	10.19	7.85	7.17	7.00	7.01	
23	7.14	6.97	7.02	7.04	7.32	7.31	7.45	10.02	7.82	7.15	6.99	6.98	
24	7.28	6.97	6.99	7.16	7.26	7.41	7.43	9.49	7.72	7.14	7.02	6.99	
25	7.47	6.99	6.98	7.26	7.61	7.43	7.40	9.96	7.74	7.13	7.03	6.95	
26	7.42	6.99	6.96	7.16	8.32	7.39	7.36	10.20	7.65	7.12	7.03	6.94	
27	7.29	6.96	6.95	7.09	7.95	7.65	7.32	9.27	7.62	7.10	7.08	6.93	
28	7.28	6.95	6.95	7.08	7.66	8.02	7.32	8.65	7.58	7.10	7.07	6.93	
29	7.37	6.95	6.93	7.07	7.49	8.29	7.47	8.47	7.56	7.13		6.90	
30	7.29	6.94	6.92	7.06	7.40	8.35	7.35	8.25	7.53	7.16		6.90	
31		6.93		7.06	7.36		7.34		7.51	7.16		6.90	
Mean	7.05	7.03	6.98	7.07	7.23	7.72	7.59	8.10	8.62	7.26	7.05	6.98	
Max	7.47	7.20	7.07	7.26	8.32	8.35	8.42	10.84	12.28	7.48	7.16	7.29	12.28
Min	6.89	6.93	6.92	6.95	6.98	7.31	7.32	7.09	7.51	7.10	6.99	6.90	6.89

Annual Max Momentary Gage Height 12.70 M (MSL), at 6.00 Hours, on Dec 8, 1996
Zero Gage at Bottom Elevation 6.70 M (MSL), River Bed 6.52 M (MSL)
Left Bank Elevation 15.75 M (MSL)
Right Bank Elevation 15.65 M (MSL), Drainage Area 354 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	4.03	1.30	1.80	8.42	8.64	34.78	6.10	26.52	9.96	4.16	2.95	
2	0.90	4.70	1.20	1.70	6.45	16.56	28.56	5.58	34.39	9.74	3.35	2.95	
3	0.90	4.16	1.40	1.50	4.70	10.40	21.94	5.40	152.52	9.08	3.35	1.80	
4	1.20	3.49	2.00	1.80	3.62	16.34	17.26	5.23	97.40	8.42	3.22	2.54	
5	1.60	2.95	2.95	2.68	3.49	25.71	15.02	5.05	69.38	8.20	3.08	6.28	
6	2.54	3.08	2.68	2.95	2.95	20.12	12.60	6.10	46.31	8.02	2.95	3.35	
7	2.00	3.08	2.14	2.00	2.81	14.14	11.72	8.42	114.98	7.67	2.68	2.68	
8	1.80	2.54	1.70	1.90	2.68	11.28	21.68	7.15	309.40	7.67	2.54	2.27	
9	1.80	2.68	1.70	1.80	2.54	10.18	19.60	5.75	110.71	7.32	2.68	2.00	
10	1.80	3.35	1.70	1.70	2.41	12.60	13.04	5.58	74.69	6.97	2.68	1.80	
11	1.70	3.08	1.70	1.60	2.27	20.90	13.26	4.88	72.33	7.15	2.54	1.70	
12	1.70	2.81	1.90	1.80	2.27	22.74	11.50	4.16	101.60	5.58	2.41	1.60	
13	1.50	3.35	1.80	2.41	2.27	27.92	11.06	3.76	80.00	5.58	2.41	1.50	
14	1.50	2.68	2.14	2.68	1.90	24.63	12.38	3.49	45.49	5.58	2.81	1.50	
15	1.00	2.41	2.95	3.49	1.80	19.86	15.24	3.22	38.29	5.58	2.81	1.40	
16	1.00	2.68	2.54	3.62	1.80	15.90	12.38	4.30	32.08	5.40	2.41	1.30	
17	1.20	2.41	1.80	4.16	2.00	14.14	9.96	4.30	28.88	5.05	2.27	1.30	
18	1.40	2.00	1.80	5.58	2.00	12.60	8.86	4.70	25.71	4.88	2.14	1.30	
19	1.30	1.90	1.70	4.30	2.27	10.84	7.67	18.30	23.82	4.70	2.14	1.30	
20	1.50	1.80	1.70	3.62	3.08	9.30	7.15	175.40	21.68	4.57	1.90	1.30	
21	1.50	1.80	1.90	3.49	3.89	7.85	7.67	104.61	19.86	4.43	1.90	1.40	
22	2.00	1.70	1.90	2.95	4.30	6.80	9.96	128.74	18.30	4.30	2.00	2.14	
23	3.89	1.70	2.27	2.54	6.80	6.62	9.30	117.52	17.52	4.03	1.90	1.80	
24	6.10	1.70	1.90	4.16	5.75	8.42	8.86	85.40	15.24	3.89	2.27	1.90	
25	9.74	1.90	1.80	5.75	12.82	8.86	8.20	113.76	15.68	3.76	2.41	1.50	
26	8.64	1.90	1.60	4.16	31.44	8.02	7.50	129.40	13.70	3.62	2.41	1.40	
27	6.28	1.60	1.50	3.22	20.90	13.70	6.80	72.33	13.04	3.35	3.08	1.30	
28	6.10	1.50	1.50	3.08	13.92	22.74	6.80	43.85	12.16	3.35	2.95	1.30	
29	7.67	1.50	1.30	2.95	10.18	30.48	9.74	36.73	11.72	3.76		1.00	
30	6.28	1.40	1.20	2.81	8.20	32.40	7.32	29.20	11.06	4.16		1.00	
31		1.30		2.81	7.50		7.15		10.62	4.16		1.00	
Total	87.54	77.18	55.67	91.01	187.43	470.69	394.96	1148.41	1665.08	179.93	73.45	58.56	4489.91 CMSDAY
Mean	2.92	2.49	1.86	2.94	6.05	15.69	12.74	38.28	53.71	5.80	2.62	1.89	12.30 CMS
Max	9.74	4.70	2.95	5.75	31.44	32.40	34.78	175.40	309.40	9.96	4.16	6.28	309.40 CMS
Min	0.90	1.30	1.20	1.50	1.80	6.62	6.80	3.22	10.62	3.35	1.90	1.00	0.90 CMS
Runoff	7.563	6.668	4.810	7.863	16.194	40.668	34.125	99.223	143.863	15.546	6.346	5.060	387.928 MCM

Momentary Peak 353.50 CMS, at 12.70 M (MSL), at 6.00 Hours, on Dec 8, 1996

Runoff Yield 34.75 Liters/Second/Square KM, Momentary Peak Yield 998.588 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

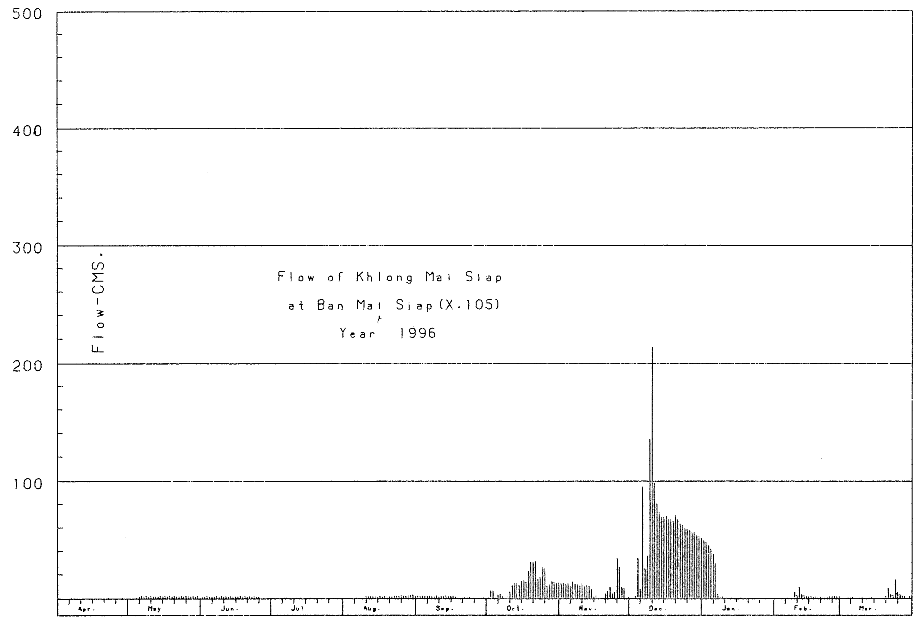
Khlong Mai Siap at Ban Mai Siap, Nakhon Si Thammarat (X.105)

Location	Lat.07°-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	+10.49 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.11	11.23	11.39	11.18	11.19	11.57	11.30	12.60	11.21	13.81	11.14	11.41	
2	11.10	11.23	11.52	11.20	11.11	11.58	12.19	12.58	11.26	13.76	11.14	11.38	
3	11.10	11.13	11.50	11.22	11.09	11.56	12.12	12.58	11.48	13.70	11.13	11.34	
4	11.10	11.54	11.49	11.26	11.10	11.63	11.34	12.57	13.37	13.61	11.14	11.33	
5	11.10	11.50	11.48	11.18	11.09	11.58	11.78	12.50	12.30	13.49	11.14	11.35	
6	11.10	11.54	11.49	11.31	11.10	11.50	11.75	12.64	14.80	13.23	11.14	11.35	
7	11.10	11.56	11.49	11.23	11.10	11.48	11.45	12.58	13.07	11.80	11.14	11.35	
8	11.10	11.53	11.49	11.21	11.10	11.53	11.34	12.52	13.42	11.45	11.23	11.41	
9	11.13	11.50	11.51	11.20	11.09	11.58	11.39	12.51	15.58	11.41	12.08	11.45	
10	11.10	11.51	11.51	11.19	11.52	11.50	12.02	12.57	16.75	11.36	11.65	11.39	
11	11.09	11.50	11.47	11.22	11.53	11.48	12.51	12.50	14.86	11.36	12.44	11.37	
12	11.10	11.52	11.49	11.31	11.53	11.57	12.61	12.49	14.51	11.34	11.86	11.35	
13	11.12	11.53	11.49	11.27	11.54	11.59	12.59	12.45	14.34	11.33	11.64	11.38	
14	11.10	11.52	11.52	11.26	11.47	11.57	12.53	12.26	14.27	11.31	11.58	11.38	
15	11.09	11.53	11.52	11.24	11.38	11.57	12.66	11.49	14.25	11.30	11.53	11.19	
16	11.10	11.54	11.52	11.17	11.46	11.54	12.71	11.55	14.29	11.29	11.49	11.17	
17	11.11	11.54	11.52	11.25	11.49	11.37	12.62	11.27	14.23	11.27	11.46	11.18	
18	11.10	11.54	11.52	11.28	11.47	11.35	12.99	11.20	14.21	11.27	11.44	11.35	
19	11.15	11.54	11.48	11.26	11.47	11.29	13.27	11.27	14.19	11.26	11.42	11.37	
20	11.17	11.53	11.48	11.25	11.47	11.30	13.24	11.92	14.29	11.26	11.41	11.51	
21	11.15	11.53	11.49	11.25	11.52	11.34	13.27	12.06	14.22	11.17	11.40	12.39	
22	11.15	11.53	11.48	11.23	11.63	11.34	12.74	12.43	14.15	11.23	11.39	11.85	
23	11.14	11.53	11.44	11.14	11.51	11.32	12.79	11.92	14.10	11.22	11.42	11.66	
24	11.15	11.53	11.47	11.14	11.56	11.27	13.12	11.98	14.05	11.22	11.45	12.71	
25	11.18	11.51	11.41	11.16	11.60	11.27	13.04	13.38	14.03	11.20	11.62	12.05	
26	11.32	11.51	11.25	11.18	11.58	11.27	12.43	13.10	14.02	11.16	11.56	11.78	
27	11.21	11.50	11.22	11.18	11.54	11.27	12.55	12.43	13.97	11.15	11.50	11.66	
28	11.19	11.50	11.22	11.18	11.59	11.28	12.67	12.29	13.96	11.14	11.45	11.45	
29	11.18	11.50	11.23	11.20	11.75	11.28	12.62	11.31	13.92	11.14		11.45	
30	11.12	11.49	11.23	11.18	11.66	11.30	12.61	11.26	13.88	11.14		11.45	
31		11.38		11.20	11.58		12.60		13.85	11.14		11.44	
Mean	11.13	11.49	11.44	11.22	11.41	11.44	12.41	12.21	13.90	11.73	11.46	11.51	
Max	11.32	11.56	11.52	11.31	11.75	11.63	13.27	13.38	16.75	13.81	12.44	12.71	16.75
Min	11.09	11.13	11.22	11.14	11.09	11.27	11.30	11.20	11.21	11.14	11.13	11.17	11.09

Annual Max Momentary Gage Height	17.69 M (MSL), at 18.00 Hours, on Dec 9, 1996
Zero Gage at Bottom Elevation	10.49 M (MSL), River Bed 10.54 M (MSL)
Left Bank Elevation	22.27 M (MSL)
Right Bank Elevation	22.01 M (MSL), Drainage Area 155 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.33	0.72	1.36	0.54	0.57	2.25	1.00	13.00	0.64	49.93	0.42	1.45		
2	0.30	0.72	2.00	0.60	0.33	2.30	7.10	12.66	0.84	48.00	0.42	1.32		
3	0.30	0.39	1.90	0.68	0.27	2.20	6.40	12.66	1.80	45.75	0.39	1.16		
4	0.30	2.10	1.85	0.84	0.30	2.59	1.16	12.49	34.60	42.37	0.42	1.12		
5	0.30	1.90	1.80	0.54	0.27	2.30	3.57	11.30	8.40	38.42	0.42	1.20		
6	0.30	2.10	1.85	1.04	0.30	1.90	3.37	14.10	95.00	30.40	0.42	1.20		
7	0.30	2.20	1.85	0.72	0.30	1.80	1.65	12.66	25.92	3.70	0.42	1.20		
8	0.30	2.05	1.85	0.64	0.30	2.05	1.16	11.64	36.15	1.65	0.72	1.45		
9	0.39	1.90	1.95	0.60	0.27	2.30	1.36	11.47	135.90	1.45	6.00	1.65		
10	0.30	1.95	1.95	0.57	2.00	1.90	5.40	12.49	214.50	1.24	2.72	1.36		
11	0.27	1.90	1.75	0.68	2.05	1.80	11.47	11.30	98.00	1.24	10.28	1.28		
12	0.30	2.00	1.85	1.04	2.05	2.25	13.27	11.13	81.23	1.16	4.15	1.20		
13	0.36	2.05	1.85	0.88	2.10	2.35	12.83	10.45	73.15	1.12	2.66	1.32		
14	0.30	2.00	2.00	0.84	1.75	2.25	11.81	7.92	69.83	1.04	2.30	1.32		
15	0.27	2.05	2.00	0.76	1.32	2.25	14.65	1.85	68.88	1.00	2.05	0.57		
16	0.30	2.10	2.00	0.51	1.70	2.10	16.02	2.15	70.77	0.96	1.85	0.51		
17	0.33	2.10	2.00	0.80	1.85	1.28	13.55	0.88	67.92	0.88	1.70	0.54		
18	0.30	2.10	2.00	0.92	1.75	1.20	23.72	0.60	66.98	0.88	1.60	1.20		
19	0.45	2.10	1.80	0.84	1.75	0.96	31.60	0.88	66.07	0.84	1.50	1.28		
20	0.51	2.05	1.80	0.80	1.75	1.00	30.70	4.60	70.77	0.84	1.45	1.95		
21	0.45	2.05	1.85	0.80	2.00	1.16	31.60	5.80	67.45	0.51	1.40	9.48		
22	0.45	2.05	1.80	0.72	2.59	1.16	16.85	10.11	64.37	0.72	1.36	4.08		
23	0.42	2.05	1.60	0.42	1.95	1.08	18.22	4.60	62.25	0.68	1.50	2.79		
24	0.45	2.05	1.75	0.42	2.20	0.88	27.30	5.05	60.13	0.68	1.65	16.02		
25	0.54	1.95	1.45	0.48	2.40	0.88	25.10	34.90	59.27	0.60	2.53	5.70		
26	1.08	1.95	0.80	0.54	2.30	0.88	10.11	26.75	58.85	0.48	2.20	3.57		
27	0.64	1.90	0.68	0.54	2.10	0.88	12.15	10.11	56.73	0.45	1.90	2.79		
28	0.57	1.90	0.68	0.54	2.35	0.92	14.92	8.28	56.30	0.42	1.65	1.65		
29	0.54	1.90	0.72	0.60	3.37	0.92	13.55	1.04	54.60	0.42		1.65		
30	0.36	1.85	0.72	0.54	2.79	1.00	13.27	0.84	52.90	0.42		1.65		
31		1.32		0.60	2.30		13.00		51.63	0.42		1.60		
Total	12.01	57.45	49.46	21.04	49.33	48.79	407.86	283.71	1931.83	278.67	56.08	75.26	3271.49	CMSDAY
Mean	0.40	1.85	1.65	0.68	1.59	1.63	13.16	9.46	62.32	8.99	2.00	2.43	8.96	CMS
Max	1.08	2.20	2.00	1.04	3.37	2.59	31.60	34.90	214.50	49.93	10.28	16.02	214.50	CMS
Min	0.27	0.39	0.68	0.42	0.27	0.88	1.00	0.60	0.64	0.42	0.39	0.51	0.27	CMS
Runoff	1.038	4.964	4.273	1.818	4.262	4.215	35.239	24.513	166.910	24.077	4.845	6.502	282.657	MCM

Momentary Peak 284.20 CMS, at 17.69 M (MSL), at 18.00 Hours, on Dec 9, 1996

Runoff Yield 57.83 Liters/Second/Square KM, Momentary Peak Yield 1833.548 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

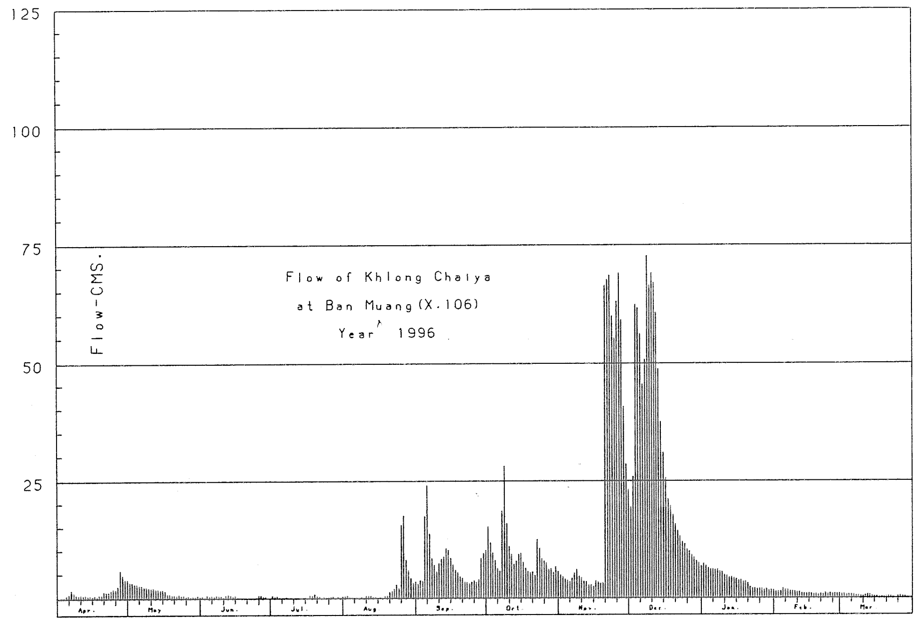
Khlong Chaiya at Ban Muang, Surat Thani (X.106)

Location	Lat.09°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	+7.06 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank infront of the gage observer's house.
Elevation	+10.247 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
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. Flow regulated by Chaiya weir about 4 kilometers above gage site. Stage-discharge relation defined by 39 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.74	7.41	6.86	6.89	6.89	7.36	8.47	7.59	8.77	7.82	7.11	7.01	
2	6.77	7.38	6.82	6.87	6.89	7.43	8.21	7.53	9.15	7.79	7.10	7.00	
3	6.81	7.36	6.91	6.86	6.82	7.44	8.02	7.49	10.39	7.72	7.14	6.99	
4	6.89	7.34	6.90	6.84	6.79	8.63	7.89	7.44	10.37	7.71	7.21	6.98	
5	7.02	7.32	6.89	6.82	6.78	9.06	7.73	7.42	10.26	7.70	7.19	6.99	
6	7.16	7.30	6.90	6.79	6.79	8.36	7.65	7.49	9.98	7.70	7.16	6.97	
7	7.09	7.28	6.91	6.81	6.78	7.93	8.71	7.62	10.13	7.70	7.13	6.93	
8	6.96	7.26	6.92	6.76	6.77	7.79	9.28	7.71	10.54	7.67	7.11	6.91	
9	6.96	7.25	6.89	6.69	6.79	7.66	8.53	7.56	10.45	7.64	7.12	6.90	
10	6.97	7.24	6.85	6.68	6.89	7.82	8.14	7.51	10.49	7.59	7.10	6.89	
11	6.96	7.23	6.93	6.66	6.93	7.92	7.99	7.43	10.46	7.55	7.08	6.91	
12	6.94	7.21	7.01	6.70	6.88	7.95	7.82	7.41	10.35	7.53	7.05	7.01	
13	6.92	7.20	6.92	6.71	6.83	8.11	7.86	7.33	10.07	7.52	7.02	6.96	
14	6.91	7.19	6.89	6.73	6.81	8.06	8.00	7.32	9.70	7.51	7.03	6.91	
15	6.90	7.17	6.89	6.78	6.78	7.93	8.01	7.29	9.42	7.47	7.02	6.83	
16	6.89	7.13	6.82	6.80	6.77	7.80	7.84	7.43	9.14	7.45	7.01	6.81	
17	6.88	7.03	6.75	6.93	6.77	7.70	7.74	7.41	8.88	7.44	7.01	6.82	
18	6.93	7.01	6.69	6.95	6.87	7.63	7.65	7.36	8.78	7.42	7.00	6.83	
19	7.00	6.97	6.69	7.00	6.94	7.55	7.64	7.39	8.66	7.41	6.99	6.84	
20	7.09	6.94	6.68	6.91	7.08	7.50	7.64	10.45	8.51	7.38	6.99	6.86	
21	7.11	6.94	6.68	6.85	7.15	7.42	7.58	10.47	8.41	7.25	7.01	6.87	
22	7.08	6.98	6.69	6.80	7.20	7.39	8.25	10.48	8.31	7.23	7.03	6.87	
23	7.18	6.93	6.70	6.83	7.31	7.37	8.11	10.34	8.22	7.22	7.02	6.83	
24	7.20	6.91	6.80	6.81	7.23	7.40	7.91	10.24	8.17	7.21	7.03	6.86	
25	7.21	6.89	6.99	6.85	8.51	7.45	7.88	10.40	8.09	7.22	7.04	6.89	
26	7.28	6.87	6.91	6.86	8.64	7.40	7.83	10.49	8.04	7.21	7.02	6.91	
27	7.69	6.85	6.88	6.83	7.90	7.48	7.71	10.32	7.99	7.19	7.03	6.87	
28	7.56	6.84	6.80	6.81	7.68	7.92	7.71	9.82	7.93	7.19	7.03	6.83	
29	7.48	6.87	6.75	6.79	7.49	8.02	7.65	9.30	7.88	7.16		6.82	
30	7.46	6.87	6.76	6.81	7.39	8.06	7.75	9.00	7.83	7.16		6.75	
31		6.88		6.82	7.41		7.65		7.78	7.16		6.71	
Mean	7.07	7.10	6.84	6.81	7.12	7.78	7.96	8.43	9.13	7.45	7.06	6.89	
Max	7.69	7.41	7.01	7.00	8.64	9.06	9.28	10.49	10.54	7.82	7.21	7.01	10.54
Min	6.74	6.84	6.68	6.66	6.77	7.36	7.58	7.29	7.78	7.16	6.99	6.71	6.66

Annual Max Momentary Gage Height 10.56 M (MSL), at 12.00 Hours, on Dec 7, 1996
Zero Gage at Bottom Elevation 7.06 M (MSL), River Bed 6.49 M (MSL)
Left Bank Elevation 12.37 M (MSL)
Right Bank Elevation 12.36 M (MSL), Drainage Area 309 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	3.58	0.48	0.57	0.57	3.20	15.31	5.12	19.55	7.43	1.51	0.96	
2	0.21	3.35	0.36	0.51	0.57	3.75	12.03	4.61	25.82	7.10	1.45	0.90	
3	0.33	3.20	0.63	0.48	0.36	3.84	9.74	4.26	62.53	6.40	1.67	0.87	
4	0.57	3.05	0.60	0.42	0.27	17.45	8.23	3.84	61.58	6.30	2.08	0.84	
5	1.01	2.90	0.57	0.36	0.24	24.25	6.50	3.67	56.35	6.20	1.95	0.87	
6	1.78	2.75	0.60	0.27	0.27	13.90	5.70	4.26	45.51	6.20	1.78	0.81	
7	1.40	2.60	0.63	0.33	0.24	8.69	18.65	5.40	50.91	6.20	1.62	0.69	
8	0.78	2.45	0.66	0.18	0.21	7.10	28.30	6.30	72.66	5.90	1.51	0.63	
9	0.78	2.38	0.57	0.00	0.27	5.80	16.09	4.86	66.45	5.60	1.56	0.60	
10	0.81	2.30	0.45	0.00	0.57	7.43	11.18	4.44	69.21	5.12	1.45	0.57	
11	0.78	2.23	0.69	0.00	0.69	8.58	9.38	3.75	67.14	4.78	1.34	0.63	
12	0.72	2.08	0.96	0.00	0.54	8.92	7.43	3.58	60.63	4.61	1.18	0.96	
13	0.66	2.00	0.66	0.03	0.39	10.82	7.89	2.97	48.69	4.52	1.01	0.78	
14	0.63	1.95	0.57	0.09	0.33	10.22	9.50	2.90	37.65	4.44	1.07	0.63	
15	0.60	1.84	0.57	0.24	0.24	8.69	9.62	2.68	31.14	4.09	1.01	0.39	
16	0.57	1.62	0.36	0.30	0.21	7.20	7.66	3.75	25.65	3.92	0.96	0.33	
17	0.54	1.07	0.15	0.69	0.21	6.20	6.60	3.58	21.28	3.84	0.96	0.36	
18	0.69	0.96	0.00	0.75	0.51	5.50	5.70	3.20	19.70	3.67	0.90	0.39	
19	0.90	0.81	0.00	0.90	0.72	4.78	5.60	3.42	17.90	3.58	0.87	0.42	
20	1.40	0.72	0.00	0.63	1.34	4.35	5.60	66.45	15.83	3.35	0.87	0.48	
21	1.51	0.72	0.00	0.45	1.73	3.67	5.03	67.83	14.53	2.38	0.96	0.51	
22	1.34	0.84	0.00	0.30	2.00	3.42	12.53	68.52	13.28	2.23	1.07	0.51	
23	1.89	0.69	0.00	0.39	2.82	3.27	10.82	60.15	12.15	2.15	1.01	0.39	
24	2.00	0.63	0.30	0.33	2.23	3.50	8.46	55.40	11.54	2.08	1.07	0.48	
25	2.08	0.57	0.87	0.45	15.83	3.92	8.12	63.00	10.58	2.15	1.12	0.57	
26	2.60	0.51	0.63	0.48	17.60	3.50	7.54	69.21	9.98	2.08	1.01	0.63	
27	6.10	0.45	0.54	0.39	8.35	4.18	6.30	59.20	9.38	1.95	1.07	0.51	
28	4.86	0.42	0.30	0.33	6.00	8.58	6.30	40.79	8.69	1.95	1.07	0.39	
29	4.18	0.51	0.15	0.27	4.26	9.74	5.70	28.70	8.12	1.78		0.36	
30	4.01	0.51	0.18	0.33	3.42	10.22	6.70	23.20	7.54	1.78		0.15	
31		0.54		0.36	3.58		5.70		7.00	1.78		0.03	
Total	45.85	50.23	12.48	10.83	76.57	224.67	289.91	679.04	988.97	125.56	35.13	17.64	2556.88 CMSDAY
Mean	1.53	1.62	0.42	0.35	2.47	7.49	9.35	22.63	31.90	4.05	1.25	0.57	7.01 CMS
Max	6.10	3.58	0.96	0.90	17.60	24.25	28.30	69.21	72.66	7.43	2.08	0.96	72.66 CMS
Min	0.12	0.42	0.00	0.00	0.21	3.20	5.03	2.68	7.00	1.78	0.87	0.03	0.00 CMS
Runoff	3.961	4.340	1.078	0.936	6.616	19.411	25.048	58.669	85.447	10.848	3.035	1.524	220.914 MCM

Momentary Peak 74.04 CMS, at 10.56 M (MSL), at 12.00 Hours, on Dec 7, 1996

Runoff Yield 22.67 Liters/Second/Square KM, Momentary Peak Yield 239.612 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

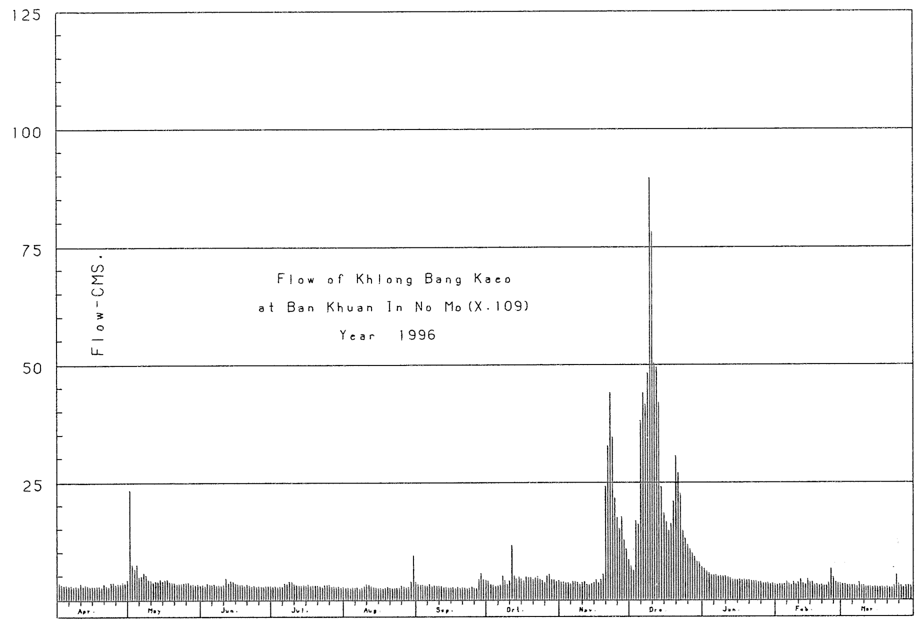
Khlong Bang Kaeo at Ban Khuan In No Mo, Phatthalung (X.109)

Location	Lat.07°-20'-36" N., Long. 100°-03'-33" E., on left bank at Ban Khuan In Nomo, Amphoe Ta Mot.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	On left bank near the Meteorological Station.
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 35 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.57	1.93	0.52	0.49	0.47	0.53	0.60	0.60	0.88	0.85	0.54	0.55	
2	0.52	0.90	0.51	0.49	0.46	0.53	0.54	0.59	0.83	0.82	0.54	0.54	
3	0.52	0.85	0.55	0.48	0.46	0.52	0.51	0.58	1.52	0.78	0.55	0.53	
4	0.51	0.90	0.54	0.48	0.46	0.52	0.50	0.57	1.48	0.75	0.54	0.52	
5	0.51	0.70	0.53	0.49	0.47	0.51	0.51	0.56	2.73	0.74	0.60	0.52	
6	0.50	0.70	0.53	0.55	0.46	0.53	0.51	0.60	3.06	0.73	0.54	0.51	
7	0.49	0.79	0.52	0.55	0.45	0.50	0.72	0.61	2.92	0.71	0.53	0.50	
8	0.49	0.72	0.51	0.59	0.45	0.50	0.61	0.58	3.27	0.71	0.58	0.57	
9	0.49	0.64	0.51	0.60	0.50	0.51	0.54	0.55	5.25	0.71	0.54	0.52	
10	0.55	0.61	0.52	0.53	0.53	0.49	0.60	0.58	4.73	0.70	0.57	0.50	
11	0.50	0.58	0.66	0.51	0.54	0.49	1.18	0.61	3.37	0.69	0.66	0.49	
12	0.53	0.61	0.57	0.52	0.49	0.48	0.72	0.54	3.32	0.68	0.56	0.49	
13	0.50	0.58	0.60	0.50	0.48	0.47	0.64	0.54	2.95	0.64	0.55	0.48	
14	0.49	0.65	0.60	0.53	0.46	0.47	0.70	0.55	1.96	0.65	0.65	0.48	
15	0.48	0.59	0.56	0.51	0.46	0.47	0.64	0.59	1.63	0.64	0.59	0.47	
16	0.48	0.62	0.53	0.53	0.45	0.46	0.61	0.64	1.52	0.63	0.58	0.47	
17	0.50	0.65	0.53	0.51	0.45	0.46	0.71	0.58	1.39	0.63	0.53	0.48	
18	0.49	0.58	0.52	0.50	0.45	0.47	0.68	0.64	1.48	0.63	0.53	0.47	
19	0.48	0.58	0.51	0.52	0.49	0.46	0.70	0.75	1.79	0.63	0.52	0.47	
20	0.55	0.56	0.53	0.50	0.45	0.46	0.64	1.97	2.33	0.62	0.52	0.47	
21	0.49	0.55	0.51	0.49	0.46	0.45	0.69	2.45	2.14	0.61	0.52	0.47	
22	0.49	0.55	0.50	0.48	0.46	0.45	0.71	3.06	1.88	0.61	0.51	0.47	
23	0.56	0.54	0.50	0.51	0.45	0.45	0.66	2.54	1.39	0.60	0.56	0.50	
24	0.58	0.57	0.49	0.53	0.47	0.49	0.62	1.83	1.27	0.59	0.85	0.75	
25	0.52	0.56	0.49	0.52	0.50	0.45	0.59	1.58	1.19	0.58	0.68	0.54	
26	0.55	0.57	0.50	0.49	0.48	0.46	0.73	1.42	1.12	0.57	0.58	0.50	
27	0.55	0.54	0.49	0.48	0.47	0.65	0.75	1.58	1.07	0.57	0.57	0.48	
28	0.57	0.53	0.49	0.48	0.47	0.76	0.65	1.26	1.01	0.56	0.55	0.50	
29	0.56	0.52	0.50	0.48	0.60	0.63	0.63	1.12	0.95	0.55		0.52	
30	0.62	0.53	0.49	0.47	1.04	0.63	0.61	0.98	0.93	0.55		0.49	
31		0.52		0.47	0.58		0.62		0.88	0.54		0.49	
Mean	0.52	0.67	0.53	0.51	0.50	0.51	0.65	1.04	2.01	0.65	0.57	0.51	
Max	0.62	1.93	0.66	0.60	1.04	0.76	1.18	3.06	5.25	0.85	0.85	0.75	5.25
Min	0.48	0.52	0.49	0.47	0.45	0.45	0.50	0.54	0.83	0.54	0.51	0.47	0.45

Annual Max Momentary Gage Height 5.45 M (A.D), at 14.00 Hours, on Dec 9, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.09 M (A.D)
Left Bank Elevation 9.45 M (A.D)
Right Bank Elevation 10.14 M (A.D), Drainage Area 133 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.70	23.51	3.20	2.90	2.70	3.30	4.00	4.00	7.20	6.75	3.40	3.50	
2	3.20	7.50	3.10	2.90	2.60	3.30	3.40	3.90	6.45	6.30	3.40	3.40	
3	3.20	6.75	3.50	2.80	2.60	3.20	3.10	3.80	16.80	5.80	3.50	3.30	
4	3.10	7.50	3.40	2.80	2.60	3.20	3.00	3.70	16.20	5.50	3.40	3.20	
5	3.10	5.00	3.30	2.90	2.70	3.10	3.10	3.60	38.11	5.40	4.00	3.20	
6	3.00	5.00	3.30	3.50	2.60	3.30	3.10	4.00	44.27	5.30	3.40	3.10	
7	2.90	5.90	3.20	3.50	2.50	3.00	5.20	4.10	41.62	5.10	3.30	3.00	
8	2.90	5.20	3.10	3.90	2.50	3.00	4.10	3.80	48.40	5.10	3.80	3.70	
9	2.90	4.40	3.10	4.00	3.00	3.10	3.40	3.50	89.62	5.10	3.40	3.20	
10	3.50	4.10	3.20	3.30	3.30	2.90	4.00	3.80	78.40	5.00	3.70	3.00	
11	3.00	3.80	4.60	3.10	3.40	2.90	11.70	4.10	50.40	4.90	4.60	2.90	
12	3.30	4.10	3.70	3.20	2.90	2.80	5.20	3.40	49.40	4.80	3.60	2.90	
13	3.00	3.80	4.00	3.00	2.80	2.70	4.40	3.40	42.18	4.40	3.50	2.80	
14	2.90	4.50	4.00	3.30	2.60	2.70	5.00	3.50	24.02	4.50	4.50	2.80	
15	2.80	3.90	3.60	3.10	2.60	2.70	4.40	3.90	18.49	4.40	3.90	2.70	
16	2.80	4.20	3.30	3.30	2.50	2.60	4.10	4.40	16.80	4.30	3.80	2.70	
17	3.00	4.50	3.30	3.10	2.50	2.60	5.10	3.80	14.85	4.30	3.30	2.80	
18	2.90	3.80	3.20	3.00	2.50	2.70	4.80	4.40	16.20	4.30	3.30	2.70	
19	2.80	3.80	3.10	3.20	2.90	2.60	5.00	5.50	21.13	4.30	3.20	2.70	
20	3.50	3.60	3.30	3.00	2.50	2.60	4.40	24.19	30.70	4.20	3.20	2.70	
21	2.90	3.50	3.10	2.90	2.60	2.50	4.90	32.93	27.22	4.10	3.20	2.70	
22	2.90	3.50	3.00	2.80	2.60	2.50	5.10	44.27	22.66	4.10	3.10	2.70	
23	3.60	3.40	3.00	3.10	2.50	2.50	4.60	34.59	14.85	4.00	3.60	3.00	
24	3.80	3.70	2.90	3.30	2.70	2.90	4.20	21.81	13.05	3.90	6.75	5.50	
25	3.20	3.60	2.90	3.20	3.00	2.50	3.90	17.70	11.85	3.80	4.80	3.40	
26	3.50	3.70	3.00	2.90	2.80	2.60	5.30	15.30	10.80	3.70	3.80	3.00	
27	3.50	3.40	2.90	2.80	2.70	4.50	5.50	17.70	10.05	3.70	3.70	2.80	
28	3.70	3.30	2.90	2.80	2.70	5.60	4.50	12.90	9.15	3.60	3.50	3.00	
29	3.60	3.20	3.00	2.80	4.00	4.30	4.30	10.80	8.25	3.50		3.20	
30	4.20	3.30	2.90	2.70	9.60	4.30	4.10	8.70	7.95	3.50		2.90	
31		3.20		2.70	3.80		4.20		7.20	3.40		2.90	
Total	96.40	152.66	98.10	95.80	93.30	92.50	141.10	315.49	814.27	141.05	104.65	95.40	2240.72 CMSDAY
Mean	3.21	4.92	3.27	3.09	3.01	3.08	4.55	10.52	26.27	4.55	3.74	3.08	6.14 CMS
Max	4.20	23.51	4.60	4.00	9.60	5.60	11.70	44.27	89.62	6.75	6.75	5.50	89.62 CMS
Min	2.80	3.20	2.90	2.70	2.50	2.50	3.00	3.40	6.45	3.40	3.10	2.70	2.50 CMS
Runoff	8.329	13.190	8.476	8.277	8.061	7.992	12.191	27.258	70.353	12.187	9.042	8.243	193.598 MCM

Momentary Peak 94.15 CMS, at 5.45 M (A.D), at 14.00 Hours, on Dec 9, 1996
Runoff Yield 46.16 Liters/Second/Square KM, Momentary Peak Yield 707.895 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

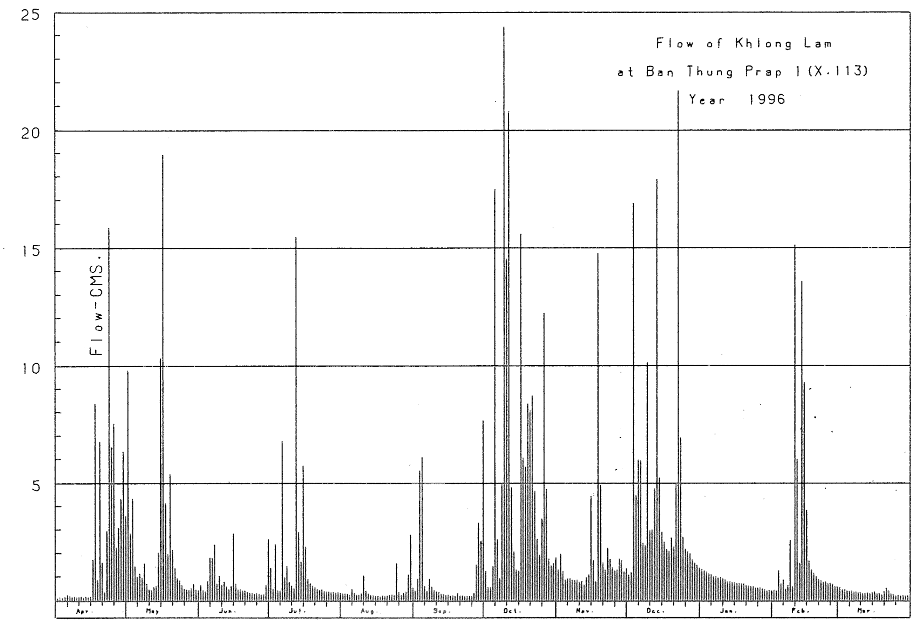
Khlong Lam at Ban Thung Prap (1), Songkhla (X.113)

Location	Lat.06°-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 15 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 good. Stage-discharge relation defined by 35 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.23	3.85	1.72	2.08	1.46	1.55	2.01	2.05	1.93	2.05	1.57	1.64	
2	1.25	2.69	1.56	1.59	1.43	1.86	1.65	2.34	1.99	2.03	1.57	1.60	
3	1.25	3.07	1.53	2.51	1.44	3.29	1.64	2.01	4.46	2.00	2.02	1.58	
4	1.27	2.11	1.80	1.55	1.39	3.39	2.11	1.84	3.10	1.97	1.74	1.56	
5	1.41	1.90	2.27	1.56	1.60	1.67	4.50	1.85	3.37	1.94	1.84	1.55	
6	1.34	1.96	2.25	3.48	1.48	1.53	2.59	1.87	3.36	1.91	1.62	1.54	
7	1.30	1.88	2.51	1.89	1.41	1.86	1.87	1.82	2.52	1.90	1.70	1.52	
8	1.30	2.15	1.75	2.10	1.39	1.67	3.20	1.83	2.49	1.88	2.57	1.51	
9	1.29	1.73	1.91	1.79	1.44	1.57	4.92	1.83	3.88	1.88	1.68	1.49	
10	1.28	1.60	1.72	1.68	1.93	1.53	4.28	1.79	2.74	1.87	4.33	1.48	
11	1.32	1.56	1.78	1.61	1.57	1.50	4.72	1.80	2.74	1.83	3.37	1.47	
12	1.28	1.66	1.68	4.36	1.44	1.45	3.17	1.72	3.16	1.80	2.17	1.47	
13	1.30	1.68	1.58	2.70	1.40	1.42	2.38	1.88	4.53	1.79	4.20	1.47	
14	1.29	2.36	1.69	2.19	1.38	1.41	2.04	1.95	3.24	1.78	3.80	1.46	
15	1.30	3.90	2.68	3.33	1.36	1.40	2.02	3.09	2.71	1.77	2.97	1.48	
16	2.22	4.60	1.73	2.47	1.34	1.37	4.37	2.21	2.54	1.76	2.20	1.51	
17	3.69	3.03	1.60	1.84	1.34	1.36	3.38	1.80	2.42	1.75	2.05	1.45	
18	1.82	2.32	1.59	1.75	1.36	1.36	3.32	4.30	2.38	1.75	1.97	1.44	
19	3.48	3.27	1.56	1.68	1.36	1.46	3.69	3.19	2.62	1.74	1.90	1.42	
20	2.18	2.40	1.54	1.66	1.35	1.37	3.65	2.17	2.46	1.71	1.85	1.52	
21	1.51	2.08	1.50	1.59	1.41	1.35	3.73	2.03	3.19	1.69	1.81	1.63	
22	2.73	1.87	1.48	1.58	1.40	1.35	3.14	2.44	4.78	1.68	1.79	1.56	
23	4.39	1.81	1.46	1.58	1.41	1.34	2.59	2.24	3.50	1.67	1.79	1.45	
24	3.45	1.71	1.44	1.55	2.15	1.35	2.32	2.08	2.62	1.65	1.75	1.41	
25	3.58	1.60	1.45	1.53	1.51	1.36	2.88	2.03	2.43	1.65	1.75	1.38	
26	2.44	1.59	1.43	1.51	1.41	1.46	4.08	2.04	2.37	1.64	1.74	1.36	
27	2.77	1.58	1.42	1.50	1.48	2.14	3.15	2.25	2.35	1.63	1.68	1.36	
28	3.07	1.62	1.40	1.49	1.51	2.83	2.24	2.21	2.22	1.59	1.66	1.35	
29	3.42	1.74	1.71	1.49	1.94	2.57	2.12	2.01	2.17	1.57		1.35	
30	2.90	1.58	2.59	1.48	2.67	3.60	2.15	2.06	2.12	1.56		1.35	
31		1.56		1.47	1.63		2.26		2.08	1.57		1.34	
Mean	2.10	2.21	1.74	1.95	1.53	1.78	2.97	2.16	2.85	1.77	2.18	1.47	
Max	4.39	4.60	2.68	4.36	2.67	3.60	4.92	4.30	4.78	2.05	4.33	1.64	4.92
Min	1.23	1.56	1.40	1.47	1.34	1.34	1.64	1.72	1.93	1.56	1.57	1.34	1.23

Annual Max Momentary Gage Height 5.23 M (A.D), at 6.00 Hours, on Oct 11, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 1.11 M (A.D)
Left Bank Elevation 8.19 M (A.D)
Right Bank Elevation 8.22 M (A.D), Drainage Area 129 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	9.82	0.70	1.42	0.33	0.44	1.26	1.35	1.10	1.35	0.46	0.57	
2	0.14	2.89	0.45	0.49	0.30	0.96	0.58	2.02	1.22	1.31	0.46	0.50	
3	0.14	4.35	0.42	2.42	0.31	5.54	0.57	1.26	16.90	1.24	1.29	0.48	
4	0.16	1.49	0.84	0.44	0.25	6.14	1.49	0.92	4.50	1.18	0.74	0.45	
5	0.27	1.04	1.86	0.45	0.50	0.62	17.50	0.94	6.02	1.12	0.92	0.44	
6	0.21	1.16	1.81	6.80	0.36	0.42	2.62	0.98	5.96	1.06	0.53	0.43	
7	0.18	1.00	2.42	1.02	0.27	0.96	0.98	0.88	2.45	1.04	0.67	0.40	
8	0.18	1.59	0.76	1.47	0.25	0.62	5.00	0.90	2.38	1.00	2.57	0.39	
9	0.17	0.72	1.06	0.82	0.31	0.46	24.40	0.90	10.14	1.00	0.64	0.37	
10	0.16	0.50	0.70	0.64	1.10	0.42	14.56	0.82	3.03	0.98	15.16	0.36	
11	0.20	0.45	0.81	0.52	0.46	0.38	20.80	0.84	3.03	0.90	6.02	0.34	
12	0.16	0.60	0.64	15.52	0.31	0.32	4.85	0.70	4.80	0.84	1.63	0.34	
13	0.18	0.64	0.48	2.92	0.26	0.28	2.11	1.00	17.95	0.82	13.60	0.34	
14	0.17	2.07	0.65	1.68	0.24	0.27	1.33	1.14	5.24	0.81	9.30	0.33	
15	0.18	10.35	2.86	5.78	0.23	0.26	1.29	4.45	2.95	0.79	3.88	0.36	
16	1.75	19.00	0.72	2.33	0.21	0.24	15.64	1.72	2.50	0.77	1.70	0.39	
17	8.42	4.15	0.50	0.92	0.21	0.23	6.08	0.84	2.21	0.76	1.35	0.32	
18	0.88	1.98	0.49	0.76	0.23	0.23	5.72	14.80	2.11	0.76	1.18	0.31	
19	6.80	5.42	0.45	0.64	0.23	0.33	8.42	4.95	2.70	0.74	1.04	0.28	
20	1.65	2.16	0.43	0.60	0.22	0.24	8.10	1.63	2.30	0.69	0.94	0.40	
21	0.39	1.42	0.38	0.49	0.27	0.22	8.74	1.31	4.95	0.65	0.86	0.55	
22	3.00	0.98	0.36	0.48	0.26	0.22	4.70	2.26	21.70	0.64	0.82	0.45	
23	15.88	0.86	0.33	0.48	0.27	0.21	2.62	1.79	6.95	0.62	0.82	0.32	
24	6.57	0.69	0.31	0.44	1.59	0.22	1.98	1.42	2.70	0.58	0.76	0.27	
25	7.55	0.50	0.32	0.42	0.39	0.23	3.52	1.31	2.23	0.58	0.76	0.24	
26	2.26	0.49	0.30	0.39	0.27	0.33	12.28	1.33	2.09	0.57	0.74	0.23	
27	3.12	0.48	0.28	0.38	0.36	1.56	4.75	1.81	2.04	0.55	0.64	0.23	
28	4.35	0.53	0.26	0.37	0.39	3.32	1.79	1.72	1.75	0.49	0.60	0.22	
29	6.35	0.74	0.69	0.37	1.12	2.57	1.52	1.26	1.63	0.46		0.22	
30	3.60	0.48	2.62	0.36	2.84	7.70	1.59	1.38	1.52	0.45		0.22	
31		0.45		0.34	0.55		1.84		1.42	0.46		0.21	
Total	75.19	79.00	24.90	52.16	14.89	35.94	188.63	58.63	148.47	25.21	70.08	10.96	784.06 CMSDAY
Mean	2.51	2.55	0.83	1.68	0.48	1.20	6.08	1.95	4.79	0.81	2.50	0.35	2.15 CMS
Max	15.88	19.00	2.86	15.52	2.84	7.70	24.40	14.80	21.70	1.35	15.16	0.57	24.40 CMS
Min	0.12	0.45	0.26	0.34	0.21	0.21	0.57	0.70	1.10	0.45	0.46	0.21	0.12 CMS
Runoff	6.496	6.826	2.151	4.507	1.286	3.105	16.298	5.066	12.828	2.178	6.055	0.947	67.743 MCM

Momentary Peak 30.68 CMS, at 5.23 M (A.D), at 6.00 Hours, on Oct 11, 1996
Runoff Yield 16.65 Liters/Second/Square KM, Momentary Peak Yield 237.829 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

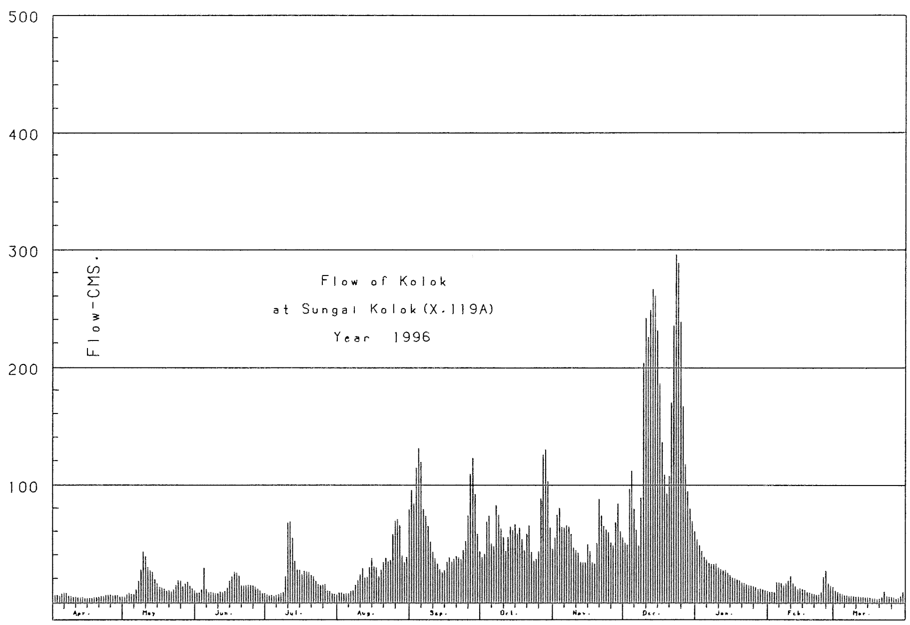
Kolok River at Sungai Kolok, Narathiwat (X.119A)

Location	Lat.06°-01′-07″ N., Long. 101°-58′-43″ E., on left bank at the railway bridge near the Immigration Division, Amphoe Sungai Kolok, Narathiwat.
Drainage Area	1,358 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 5.80 meters from the top staff gage.
Elevation	+6.204 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	1988 to date.
Rated by Float	-
Rated by Current Meter	1988 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 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.72	0.88	0.80	0.89	3.16	1.85	2.29	2.19	2.25	0.92	0.96	
2	0.78	0.81	0.86	0.78	0.87	2.92	1.95	2.71	2.14	2.14	0.90	0.90	
3	0.76	0.88	0.99	0.77	0.85	3.52	2.58	2.85	3.19	2.01	0.90	0.87	
4	0.84	0.82	1.61	0.76	0.84	3.82	2.69	2.48	3.46	1.88	1.22	0.83	
5	0.89	0.84	0.99	0.77	0.86	3.60	2.16	2.48	2.83	1.80	1.20	0.80	
6	0.86	0.97	0.90	0.83	0.92	2.83	2.11	2.51	2.42	1.73	1.20	0.77	
7	0.78	1.25	0.88	0.85	0.97	2.69	2.90	2.50	2.13	1.69	1.11	0.76	
8	0.73	1.56	0.89	0.91	1.12	2.51	2.72	2.35	3.03	1.70	1.19	0.75	
9	0.70	1.99	0.84	1.36	1.28	2.20	2.45	2.09	4.91	1.70	1.25	0.76	
10	0.69	1.89	0.86	2.57	1.42	2.00	2.30	2.02	5.42	1.62	1.40	0.74	
11	0.68	1.61	0.90	2.58	1.60	1.82	2.00	1.96	5.20	1.56	1.19	0.71	
12	0.67	1.54	0.90	2.29	1.33	1.71	2.29	1.75	5.50	1.54	1.08	0.70	
13	0.67	1.48	0.92	1.76	1.37	1.56	2.50	1.72	5.73	1.54	1.00	0.68	
14	0.63	1.30	1.05	1.56	1.61	1.49	2.42	1.74	5.65	1.48	1.02	0.68	
15	0.60	1.16	1.24	1.54	1.83	1.53	2.54	2.16	5.28	1.41	1.01	0.67	
16	0.61	1.05	1.36	1.44	1.64	1.75	2.36	2.00	4.66	1.35	0.97	0.65	
17	0.64	1.05	1.50	1.51	1.60	1.85	2.46	1.72	3.90	1.32	0.91	0.63	
18	0.66	1.00	1.46	1.51	1.39	1.76	2.25	1.71	3.40	1.30	0.88	0.61	
19	0.69	0.95	1.40	1.48	1.56	1.81	2.03	2.18	3.11	1.26	0.86	0.60	
20	0.70	0.95	1.12	1.42	1.73	1.89	2.36	3.01	3.39	1.22	0.83	0.59	
21	0.72	0.93	1.09	1.37	1.85	1.85	2.51	2.71	4.42	1.19	0.82	0.70	
22	0.75	0.97	1.13	1.25	1.74	1.82	1.98	2.50	5.33	1.16	0.81	0.92	
23	0.78	1.14	1.12	1.14	1.80	2.02	1.78	2.43	6.09	1.11	0.91	0.77	
24	0.81	1.25	1.13	1.13	2.34	2.22	1.81	2.39	6.00	1.12	1.35	0.71	
25	0.80	1.26	1.12	1.14	2.61	2.71	2.01	2.20	5.38	1.10	1.54	0.72	
26	0.76	1.07	1.06	1.14	2.63	3.41	3.03	2.12	4.38	1.05	1.19	0.66	
27	0.80	1.17	1.02	0.96	2.52	3.67	3.71	2.58	3.56	1.02	1.09	0.62	
28	0.77	1.21	0.93	0.92	1.90	3.09	3.80	2.92	3.14	1.01	1.06	0.62	
29	0.71	1.11	0.87	0.86	1.74	2.35	3.30	2.41	2.84	1.00		0.76	
30	0.69	1.01	0.84	0.82	1.85	2.01	2.47	2.28	2.59	0.95		0.90	
31		0.93		0.79	2.82		2.06		2.41	0.93		0.83	
Mean	0.73	1.16	1.06	1.26	1.60	2.39	2.43	2.29	3.99	1.42	1.06	0.74	
Max	0.89	1.99	1.61	2.58	2.82	3.82	3.80	3.01	6.09	2.25	1.54	0.96	6.09
Min	0.60	0.72	0.84	0.76	0.84	1.49	1.78	1.71	2.13	0.93	0.81	0.59	0.59

Annual Max Momentary Gage Height 6.13 M (A.D), at 12.00 Hours, on Dec 23, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.19 M (A.D)
Left Bank Elevation 10.19 M (A.D)
Right Bank Elevation 9.83 M (A.D), Drainage Area 1358 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.00	5.80	9.00	7.00	9.25	96.00	38.75	56.05	51.60	54.25	10.00	11.00	
2	6.70	7.25	8.50	6.70	8.75	84.40	42.25	74.95	49.60	49.60	9.50	9.50	
3	6.40	9.00	11.75	6.55	8.25	115.60	69.10	81.25	97.50	44.40	9.50	8.75	
4	8.00	7.50	30.35	6.40	8.00	132.25	74.05	64.60	112.30	39.80	18.10	7.75	
5	9.25	8.00	11.75	6.55	8.50	120.00	50.40	64.60	80.35	37.00	17.50	7.00	
6	8.50	11.25	9.50	7.75	10.00	80.35	48.40	65.95	61.90	34.55	17.50	6.55	
7	6.70	19.00	9.00	8.25	11.25	74.05	83.50	65.50	49.20	33.15	15.02	6.40	
8	5.95	28.70	9.25	9.75	15.30	65.95	75.40	58.75	89.50	33.50	17.22	6.25	
9	5.50	43.65	8.00	22.30	19.90	52.00	63.25	47.60	204.47	33.50	19.00	6.40	
10	5.35	40.15	8.50	68.65	24.15	44.00	56.50	44.80	242.60	30.70	23.50	6.10	
11	5.20	30.35	9.50	69.10	30.00	37.70	44.00	42.60	226.00	28.70	17.22	5.65	
12	5.05	28.05	9.50	56.05	21.40	33.85	56.05	35.25	249.00	28.05	14.20	5.50	
13	5.05	26.10	10.00	35.60	22.60	28.70	65.50	34.20	267.40	28.05	12.00	5.20	
14	4.45	20.50	13.37	28.70	30.35	26.43	61.90	34.90	261.00	26.10	12.55	5.20	
15	4.00	16.40	18.70	28.05	38.05	27.72	67.30	50.40	232.00	23.82	12.27	5.05	
16	4.15	13.37	22.30	24.80	31.40	35.25	59.20	44.00	186.35	22.00	11.25	4.75	
17	4.60	13.37	26.75	27.07	30.00	38.75	63.70	34.20	137.25	21.10	9.75	4.45	
18	4.90	12.00	25.45	27.07	23.20	35.60	54.25	33.85	109.00	20.50	9.00	4.15	
19	5.35	10.75	23.50	26.10	28.70	37.35	45.20	51.20	93.50	19.30	8.50	4.00	
20	5.50	10.75	15.30	24.15	34.55	40.15	59.20	88.50	108.45	18.10	7.75	3.87	
21	5.80	10.25	14.48	22.60	38.75	38.75	65.95	74.95	170.30	17.22	7.50	5.50	
22	6.25	11.25	15.57	19.00	34.90	37.70	43.30	65.50	235.75	16.40	7.25	10.00	
23	6.70	15.85	15.30	15.85	37.00	44.80	36.30	62.35	296.65	15.02	9.75	6.55	
24	7.25	19.00	15.57	15.57	58.30	52.90	37.35	60.55	289.00	15.30	22.00	5.65	
25	7.00	19.30	15.30	15.85	70.45	74.95	44.40	52.00	239.50	14.75	28.05	5.80	
26	6.40	13.93	13.65	15.85	71.35	109.55	89.50	48.80	167.70	13.37	17.22	4.90	
27	7.00	16.67	12.55	11.00	66.40	123.85	126.05	69.10	117.80	12.55	14.48	4.30	
28	6.55	17.80	10.25	10.00	40.50	92.50	131.00	84.40	95.00	12.27	13.65	4.30	
29	5.65	15.02	8.75	8.50	34.90	58.75	103.50	61.45	80.80	12.00		6.40	
30	5.35	12.27	8.00	7.50	38.75	44.40	64.15	55.60	69.55	10.75		9.50	
31		10.25		6.85	79.90		46.40		61.45	10.25		7.75	
Total	181.55	523.53	419.39	645.16	984.80	1884.25	1965.80	1707.85	4732.47	776.05	391.23	194.17	14406.25 CMSDAY
Mean	6.05	16.89	13.98	20.81	31.77	62.81	63.41	56.93	152.66	25.03	13.97	6.26	39.47 CMS
Max	9.25	43.65	30.35	69.10	79.90	132.25	131.00	88.50	296.65	54.25	28.05	11.00	296.65 CMS
Min	4.00	5.80	8.00	6.40	8.00	26.43	36.30	33.85	49.20	10.25	7.25	3.87	3.87 CMS
Runoff	15.686	45.233	36.235	55.742	85.087	162.799	169.845	147.558	408.885	67.051	33.802	16.776	1244.700 MCM

Momentary Peak 300.05 CMS, at 6.13 M (A.D), at 12.00 Hours, on Dec 23, 1996

Runoff Yield 29.06 Liters/Second/Square KM, Momentary Peak Yield 220.950 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

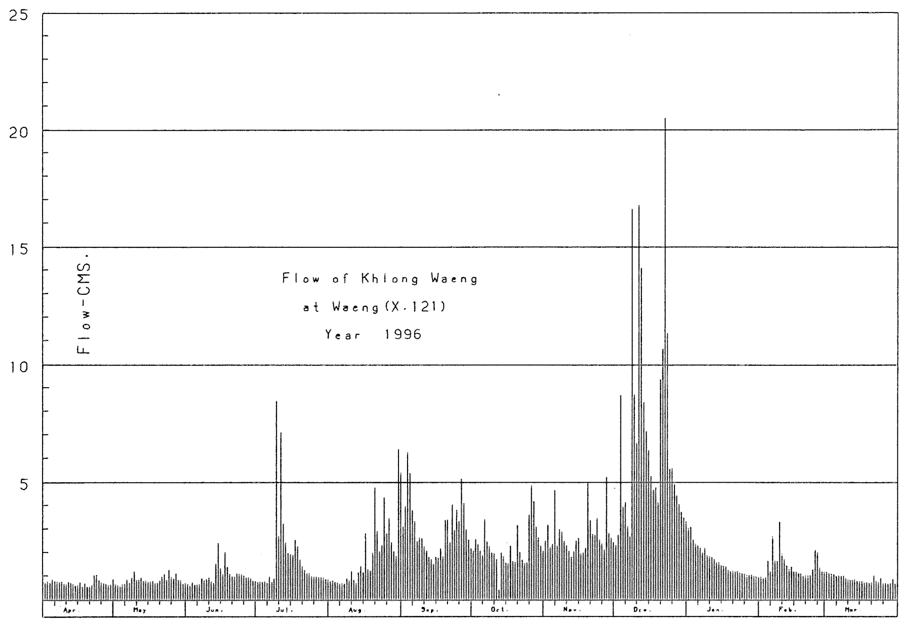
Khlong Waeng at Waeng, Narathiwat (X.121)

Location	Lat.05°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	+15.85 m.(M.S.L.)
Bench Mark	B.M-H.D.
Location	On right bank at the 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 by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.66	17.64	17.64	17.67	17.68	18.09	17.93	18.00	17.97	18.08	17.72	17.77	
2	17.67	17.63	17.63	17.67	17.68	18.21	18.01	18.10	18.04	18.09	17.71	17.76	
3	17.66	17.62	17.66	17.67	17.67	18.49	17.98	17.96	18.78	18.01	17.71	17.75	
4	17.69	17.64	17.64	17.67	17.66	18.39	17.93	17.98	18.21	17.98	17.86	17.75	
5	17.68	17.65	17.64	17.66	17.65	18.19	17.90	18.30	18.23	17.97	17.78	17.73	
6	17.67	17.69	17.64	17.72	17.65	18.12	18.13	17.97	18.09	17.95	18.03	17.73	
7	17.67	17.66	17.71	17.67	17.65	18.00	18.00	18.07	18.03	17.92	17.86	17.73	
8	17.67	17.71	17.68	17.70	17.71	18.02	17.96	18.06	19.50	17.95	17.86	17.73	
9	17.65	17.78	17.70	18.75	17.68	18.02	17.92	18.00	18.78	17.90	18.12	17.71	
10	17.64	17.69	17.71	18.03	17.78	17.96	17.91	17.97	18.54	17.89	17.91	17.69	
11	17.67	17.69	17.67	18.59	17.69	17.93	17.87	17.93	19.51	17.89	17.87	17.69	
12	17.66	17.71	17.66	18.11	17.65	17.89	17.58	17.89	19.29	17.87	17.83	17.69	
13	17.64	17.68	17.84	17.99	17.77	17.87	17.92	17.93	18.74	17.85	17.80	17.69	
14	17.63	17.68	17.99	17.92	17.82	17.84	17.89	18.00	18.60	17.85	17.82	17.68	
15	17.63	17.67	17.81	17.91	17.77	17.89	17.85	18.02	18.50	17.83	17.78	17.67	
16	17.66	17.67	17.75	17.90	18.05	17.88	17.84	17.91	18.37	17.82	17.77	17.67	
17	17.62	17.68	17.92	18.01	17.80	17.95	17.97	17.92	18.30	17.82	17.76	17.66	
18	17.65	17.65	17.82	17.96	17.79	17.89	17.86	17.95	18.31	17.79	17.75	17.66	
19	17.62	17.66	17.75	17.87	17.92	18.13	17.85	18.34	18.23	17.78	17.73	17.66	
20	17.62	17.68	17.73	17.82	18.31	18.13	18.10	18.13	18.85	17.78	17.73	17.66	
21	17.63	17.72	17.72	17.79	18.06	17.99	17.92	18.04	18.98	17.78	17.73	17.74	
22	17.74	17.75	17.76	17.76	17.93	18.22	17.87	18.04	19.81	17.78	17.74	17.68	
23	17.74	17.69	17.75	17.76	17.97	18.07	17.84	18.14	19.04	17.76	17.80	17.66	
24	17.69	17.80	17.75	17.73	18.26	18.19	17.85	18.01	18.41	17.76	17.94	17.71	
25	17.66	17.72	17.73	17.72	18.05	18.12	18.16	17.98	18.41	17.75	17.92	17.65	
26	17.65	17.70	17.72	17.72	18.14	18.36	18.32	17.94	18.33	17.74	17.81	17.65	
27	17.65	17.76	17.72	17.72	17.99	18.23	18.24	18.37	18.27	17.74	17.78	17.65	
28	17.63	17.69	17.70	17.72	17.93	18.07	18.09	18.05	18.22	17.74	17.77	17.65	
29	17.64	17.68	17.68	17.71	17.89	18.01	18.02	18.02	18.18	17.73		17.70	
30	17.70	17.65	17.67	17.70	18.51	17.95	17.97	17.99	18.14	17.72		17.65	
31		17.65		17.69	18.39		17.93		18.12	17.72		17.65	
Mean	17.66	17.69	17.73	17.85	17.89	18.07	17.96	18.03	18.54	17.85	17.82	17.69	
Max	17.74	17.80	17.99	18.75	18.51	18.49	18.32	18.37	19.81	18.09	18.12	17.77	19.81
Min	17.62	17.62	17.63	17.66	17.65	17.84	17.58	17.89	17.97	17.72	17.71	17.65	17.58

Annual Max Momentary Gage Height	20.18 M (MSL), at 18.00 Hours, on Dec 8, 1996
Zero Gage at Bottom Elevation	15.85 M (MSL), River Bed 17.25 M (MSL)
Left Bank Elevation	21.67 M (MSL)
Right Bank Elevation	20.54 M (MSL), Drainage Area 43 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.74	0.66	0.66	0.78	0.82	3.13	2.08	2.50	2.32	3.06	0.98	1.18	
2	0.78	0.62	0.62	0.78	0.82	3.98	2.57	3.20	2.78	3.13	0.94	1.14	
3	0.74	0.58	0.74	0.78	0.78	6.27	2.38	2.26	8.73	2.57	0.94	1.10	
4	0.86	0.66	0.66	0.78	0.74	5.42	2.08	2.38	3.98	2.38	1.66	1.10	
5	0.82	0.70	0.66	0.74	0.70	3.83	1.90	4.70	4.14	2.32	1.22	1.02	
6	0.78	0.86	0.66	0.98	0.70	3.34	3.41	2.32	3.13	2.20	2.71	1.02	
7	0.78	0.74	0.94	0.78	0.70	2.50	2.50	2.99	2.71	2.02	1.66	1.02	
8	0.78	0.94	0.82	0.90	0.94	2.64	2.26	2.92	16.65	2.20	1.66	1.02	
9	0.70	1.22	0.90	8.48	0.82	2.64	2.02	2.50	8.73	1.90	3.34	0.94	
10	0.66	0.86	0.94	2.71	1.22	2.26	1.96	2.32	6.69	1.84	1.96	0.86	
11	0.78	0.86	0.78	7.12	0.86	2.08	1.72	2.08	16.78	1.84	1.72	0.86	
12	0.74	0.94	0.74	3.27	0.70	1.84	0.44	1.84	14.14	1.72	1.48	0.86	
13	0.66	0.82	1.54	2.44	1.18	1.72	2.02	2.08	8.39	1.60	1.30	0.86	
14	0.62	0.82	2.44	2.02	1.42	1.54	1.84	2.50	7.20	1.60	1.42	0.82	
15	0.62	0.78	1.36	1.96	1.18	1.84	1.60	2.64	6.35	1.48	1.22	0.78	
16	0.74	0.78	1.10	1.90	2.85	1.78	1.54	1.96	5.26	1.42	1.18	0.78	
17	0.58	0.82	2.02	2.57	1.30	2.20	2.32	2.02	4.70	1.42	1.14	0.74	
18	0.70	0.70	1.42	2.26	1.26	1.84	1.66	2.20	4.78	1.26	1.10	0.74	
19	0.58	0.74	1.10	1.72	2.02	3.41	1.60	5.02	4.14	1.22	1.02	0.74	
20	0.58	0.82	1.02	1.42	4.78	3.41	3.20	3.41	9.40	1.22	1.02	0.74	
21	0.62	0.98	0.98	1.26	2.92	2.44	2.02	2.78	10.70	1.22	1.02	1.06	
22	1.06	1.10	1.14	1.14	2.08	4.06	1.72	2.78	20.53	1.22	1.06	0.82	
23	1.06	0.86	1.10	1.14	2.32	2.99	1.54	3.48	11.34	1.14	1.30	0.74	
24	0.86	1.30	1.10	1.02	4.38	3.83	1.60	2.57	5.59	1.14	2.14	0.94	
25	0.74	0.98	1.02	0.98	2.85	3.34	3.62	2.38	5.59	1.10	2.02	0.70	
26	0.70	0.90	0.98	0.98	3.48	5.18	4.86	2.14	4.94	1.06	1.36	0.70	
27	0.70	1.14	0.98	0.98	2.44	4.14	4.22	5.26	4.46	1.06	1.22	0.70	
28	0.62	0.86	0.90	0.98	2.08	2.99	3.13	2.85	4.06	1.06	1.18	0.70	
29	0.66	0.82	0.82	0.94	1.84	2.57	2.64	2.64	3.76	1.02		0.90	
30	0.90	0.70	0.78	0.90	6.44	2.20	2.32	2.44	3.48	0.98		0.70	
31		0.70		0.86	5.42		2.08		3.34	0.98		0.70	
Total	22.16	26.26	30.92	55.57	62.04	91.41	70.85	83.16	218.79	50.38	40.97	26.98	779.49 CMSDAY
Mean	0.74	0.85	1.03	1.79	2.00	3.05	2.29	2.77	7.06	1.63	1.46	0.87	2.14 CMS
Max	1.06	1.30	2.44	8.48	6.44	6.27	4.86	5.26	20.53	3.13	3.34	1.18	20.53 CMS
Min	0.58	0.58	0.62	0.74	0.70	1.54	0.44	1.84	2.32	0.98	0.94	0.70	0.44 CMS
Runoff	1.915	2.269	2.671	4.801	5.360	7.898	6.121	7.185	18.903	4.353	3.540	2.331	67.348 MCM

Momentary Peak 25.34 CMS, at 20.18 M (MSL), at 18.00 Hours, on Dec 8, 1996

Runoff Yield 49.66 Liters/Second/Square KM, Momentary Peak Yield 589.302 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA WEST COAST

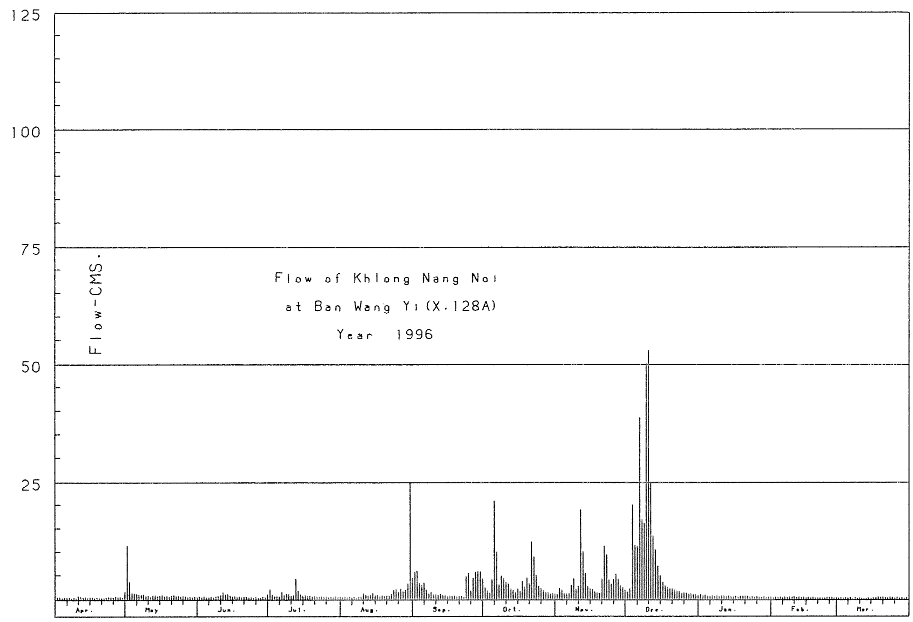
Khlong Nang Noi at Ban Wang Yi, Trang (X.128A)

Location	Lat.07°-35'-28" N., Long. 99°-44'-13" E., on right bank about 2.00 meters upstream from the bridge at Ban Wang Yi, Amphoe Na Yong, 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Khlong Nang Noi weir. Stage-discharge relation defined by 34 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	2.01	0.11	0.59	0.10	1.25	0.68	0.32	0.44	0.27	0.05	0.02	
2	0.07	0.90	0.10	0.27	0.10	1.31	0.48	0.62	0.58	0.24	0.05	0.01	
3	0.05	0.39	0.13	0.21	0.07	0.87	0.38	0.51	2.93	0.23	0.06	0.01	
4	0.04	0.32	0.10	0.15	0.07	0.78	0.98	0.36	2.00	0.22	0.07	0.01	
5	0.09	0.32	0.11	0.18	0.06	0.89	3.01	0.35	1.99	0.21	0.06	0.01	
6	0.05	0.28	0.11	0.44	0.06	0.53	1.82	0.32	4.44	0.21	0.09	0.01	
7	0.04	0.30	0.10	0.24	0.05	0.35	0.82	0.81	2.60	0.21	0.07	0.01	
8	0.04	0.27	0.12	0.34	0.09	0.40	1.13	1.04	2.53	0.20	0.09	0.02	
9	0.04	0.23	0.23	0.28	0.18	0.30	1.02	0.55	5.23	0.20	0.14	0.01	
10	0.19	0.20	0.24	0.23	0.32	0.26	0.88	0.72	5.42	0.19	0.10	-0.01	
11	0.19	0.18	0.38	0.22	0.28	0.24	0.85	2.82	3.38	0.18	0.08	-0.01	
12	0.09	0.25	0.31	1.03	0.21	0.28	0.60	1.83	2.23	0.18	0.07	-0.02	
13	0.08	0.24	0.30	0.46	0.29	0.26	0.50	1.23	1.90	0.17	0.06	-0.02	
14	0.06	0.22	0.25	0.31	0.33	0.21	0.41	0.70	1.44	0.16	0.06	-0.01	
15	0.05	0.20	0.21	0.24	0.25	0.20	0.57	0.61	1.11	0.16	0.05	0.01	
16	0.05	0.24	0.15	0.24	0.23	0.19	0.47	0.54	0.91	0.15	0.05	0.00	
17	0.05	0.21	0.12	0.22	0.20	0.20	0.91	0.45	0.77	0.14	0.05	0.09	
18	0.05	0.19	0.12	0.20	0.21	0.18	0.67	0.36	0.65	0.16	0.05	0.09	
19	0.04	0.18	0.11	0.19	0.22	0.16	1.07	0.38	0.62	0.21	0.04	0.10	
20	0.04	0.20	0.10	0.18	0.20	0.14	0.86	1.03	0.58	0.17	0.04	0.09	
21	0.04	0.27	0.09	0.17	0.19	0.16	2.09	1.98	0.51	0.13	0.04	0.08	
22	0.04	0.22	0.08	0.16	0.33	0.14	1.71	1.77	0.49	0.12	0.03	0.06	
23	0.12	0.19	0.08	0.14	0.54	1.11	1.14	0.97	0.43	0.12	0.03	0.09	
24	0.10	0.18	0.07	0.12	0.54	1.21	0.75	0.85	0.38	0.12	0.04	0.05	
25	0.12	0.17	0.07	0.11	0.43	0.49	0.60	0.99	0.36	0.12	0.08	0.04	
26	0.15	0.13	0.07	0.10	0.58	1.03	0.48	1.18	0.35	0.11	0.04	0.03	
27	0.13	0.12	0.06	0.10	0.47	1.27	0.41	1.01	0.33	0.10	0.02	0.02	
28	0.11	0.12	0.09	0.09	0.51	1.27	0.37	0.78	0.31	0.09	0.02	0.02	
29	0.10	0.11	0.09	0.12	0.86	1.29	0.34	0.64	0.30	0.07		0.01	
30	0.42	0.11	0.28	0.11	3.36	1.01	0.31	0.51	0.27	0.06		-0.01	
31		0.12		0.10	1.03		0.30		0.24	0.05		-0.02	
Mean	0.09	0.29	0.15	0.24	0.40	0.60	0.86	0.87	1.47	0.16	0.06	0.03	
Max	0.42	2.01	0.38	1.03	3.36	1.31	3.01	2.82	5.42	0.27	0.14	0.10	5.42
Min	0.04	0.11	0.06	0.09	0.05	0.14	0.30	0.32	0.24	0.05	0.02	-0.02	-0.02

Annual Max Momentary Gage Height 5.69 M (AD), at 12.00 Hours, on Dec 10, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.20 M (AD)
Left Bank Elevation 6.49 M (AD)
Right Bank Elevation 6.40 M (AD), Drainage Area 75 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	11.69	0.62	2.36	0.60	5.90	2.72	1.28	1.76	1.08	0.50	0.44	
2	0.54	3.80	0.60	1.08	0.60	6.26	1.92	2.48	2.32	0.96	0.50	0.42	
3	0.50	1.56	0.66	0.84	0.54	3.62	1.52	2.04	20.40	0.92	0.52	0.42	
4	0.48	1.28	0.60	0.70	0.54	3.12	4.28	1.44	11.60	0.88	0.54	0.42	
5	0.58	1.28	0.62	0.76	0.52	3.74	21.20	1.40	11.52	0.84	0.52	0.42	
6	0.50	1.12	0.62	1.76	0.52	2.12	10.16	1.28	38.86	0.84	0.58	0.42	
7	0.48	1.20	0.60	0.96	0.50	1.40	3.32	3.26	17.10	0.84	0.54	0.42	
8	0.48	1.08	0.64	1.36	0.58	1.60	5.18	4.64	16.44	0.80	0.58	0.44	
9	0.48	0.92	0.92	1.12	0.76	1.20	4.52	2.20	50.25	0.80	0.68	0.42	
10	0.78	0.80	0.96	0.92	1.28	1.04	3.68	2.88	53.10	0.78	0.60	0.38	
11	0.78	0.76	1.52	0.88	1.12	0.96	3.50	19.30	25.18	0.76	0.56	0.38	
12	0.58	1.00	1.24	4.58	0.84	1.12	2.40	10.24	13.59	0.76	0.54	0.36	
13	0.56	0.96	1.20	1.84	1.16	1.04	2.00	5.78	10.80	0.74	0.52	0.36	
14	0.52	0.88	1.00	1.24	1.32	0.84	1.64	2.80	7.12	0.72	0.52	0.38	
15	0.50	0.80	0.84	0.96	1.00	0.80	2.28	2.44	5.06	0.72	0.50	0.42	
16	0.50	0.96	0.70	0.96	0.92	0.78	1.88	2.16	3.86	0.70	0.50	0.40	
17	0.50	0.84	0.64	0.88	0.80	0.80	3.86	1.80	3.08	0.68	0.50	0.58	
18	0.50	0.78	0.64	0.80	0.84	0.76	2.68	1.44	2.60	0.72	0.50	0.58	
19	0.48	0.76	0.62	0.78	0.88	0.72	4.82	1.52	2.48	0.84	0.48	0.60	
20	0.48	0.80	0.60	0.76	0.80	0.68	3.56	4.58	2.32	0.74	0.48	0.58	
21	0.48	1.08	0.58	0.74	0.78	0.72	12.36	11.44	2.04	0.66	0.48	0.56	
22	0.48	0.88	0.56	0.72	1.32	0.68	9.28	9.76	1.96	0.64	0.46	0.52	
23	0.64	0.78	0.56	0.68	2.16	5.06	5.24	4.22	1.72	0.64	0.46	0.58	
24	0.60	0.76	0.54	0.64	2.16	5.66	3.00	3.50	1.52	0.64	0.48	0.50	
25	0.64	0.74	0.54	0.62	1.72	1.96	2.40	4.34	1.44	0.64	0.56	0.48	
26	0.70	0.66	0.54	0.60	2.32	4.58	1.92	5.48	1.40	0.62	0.48	0.46	
27	0.66	0.64	0.52	0.60	1.88	6.02	1.64	4.46	1.32	0.60	0.44	0.44	
28	0.62	0.64	0.58	0.58	2.04	6.02	1.48	3.12	1.24	0.58	0.44	0.44	
29	0.60	0.62	0.58	0.64	3.56	6.14	1.36	2.56	1.20	0.54		0.42	
30	1.68	0.62	1.12	0.62	24.96	4.46	1.24	2.04	1.08	0.52		0.38	
31		0.64		0.60	4.58		1.20		0.96	0.50		0.36	
Total	18.02	41.33	21.96	32.58	63.60	79.80	128.24	125.88	315.32	22.70	14.46	13.98	877.87 CMSDAY
Mean	0.60	1.33	0.73	1.05	2.05	2.66	4.14	4.20	10.17	0.73	0.52	0.45	2.41 CMS
Max	1.68	11.69	1.52	4.58	24.96	6.26	21.20	19.30	53.10	1.08	0.68	0.60	53.10 CMS
Min	0.48	0.62	0.52	0.58	0.50	0.68	1.20	1.28	0.96	0.50	0.44	0.36	0.36 CMS
Runoff	1.557	3.571	1.897	2.815	5.495	6.895	11.080	10.876	27.244	1.961	1.249	1.208	75.848 MCM

Momentary Peak 57.19 CMS, at 5.69 M (AD), at 12.00 Hours, on Dec 10, 1996

Runoff Yield 32.07 Liters/Second/Square KM, Momentary Peak Yield 762.533 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

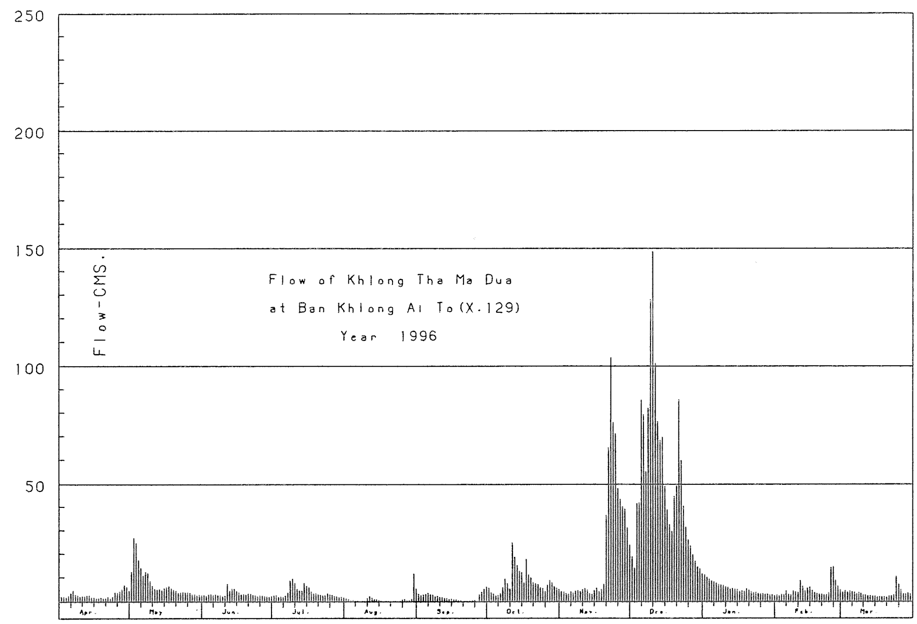
Khlong Tha Ma Dua at Ban Khlong Ai To, Phatthalung (X.129)

Location	Lat. 07°-23'-19" N., Long. 100°-06'-44" E., on right bank near Wat Ban Ai To, Ban Khlong Ai To, Amphoe Ta Mot, 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 20 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Tha Chiat weir about 4 kilometers above gage site. Stage-discharge relation defined by 38 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.86	14.50	13.93	13.93	13.77	13.99	14.18	14.09	14.70	14.46	13.93	14.07	
2	13.84	15.05	13.91	13.92	13.69	13.95	14.06	14.06	14.57	14.43	13.92	14.10	
3	13.83	14.92	13.96	13.85	13.66	13.94	13.99	14.02	15.72	14.39	13.96	14.07	
4	13.88	14.67	14.00	13.84	13.64	14.00	13.92	13.97	15.72	14.36	13.98	14.09	
5	14.03	14.57	13.96	13.84	13.62	14.02	13.92	14.08	17.52	14.33	14.09	14.08	
6	14.10	14.44	13.95	13.89	13.61	13.99	14.02	14.02	18.51	14.31	14.00	14.05	
7	13.97	14.50	13.94	14.04	13.60	13.94	14.19	14.10	17.62	14.27	13.94	14.02	
8	13.91	14.49	13.90	14.36	13.57	13.88	14.40	14.10	18.62	14.27	14.11	14.04	
9	13.87	14.35	13.88	14.40	13.57	13.88	14.29	14.08	19.93	14.25	14.06	14.03	
10	13.86	14.23	13.90	14.31	13.75	13.85	14.17	14.13	20.45	14.23	14.06	13.97	
11	13.89	14.16	14.28	14.14	13.90	13.82	14.92	14.19	19.19	14.20	14.36	13.95	
12	13.93	14.14	14.11	14.11	13.79	13.80	14.70	14.13	18.41	14.17	14.22	13.92	
13	13.91	14.14	14.16	14.09	13.72	13.76	14.60	14.02	18.12	14.17	14.10	13.91	
14	13.83	14.12	14.17	14.31	13.68	13.73	14.52	13.97	16.89	14.16	14.17	13.90	
15	13.80	14.17	14.10	14.23	13.67	13.72	14.49	14.12	16.03	14.14	14.21	13.89	
16	13.75	14.20	14.04	14.21	13.63	13.70	14.31	14.17	15.60	14.10	14.11	13.86	
17	13.79	14.24	13.98	14.07	13.58	13.68	14.68	14.08	15.31	14.09	14.05	13.86	
18	13.80	14.16	13.97	14.02	13.56	13.67	14.46	14.13	15.19	14.10	14.01	13.87	
19	13.78	14.13	13.96	14.01	13.57	13.65	14.42	14.28	15.84	14.16	14.00	13.85	
20	13.78	14.09	14.00	13.99	13.59	13.61	14.31	15.48	16.05	14.13	13.98	13.85	
21	13.83	14.04	13.99	13.94	13.57	13.60	14.30	16.70	17.52	14.07	13.97	13.89	
22	13.76	14.05	13.96	13.93	13.56	13.58	14.27	18.20	16.50	14.05	13.96	13.92	
23	13.84	14.04	13.90	13.91	13.55	13.56	14.21	17.13	15.66	14.05	14.05	13.94	
24	14.05	14.05	13.89	14.02	13.53	13.65	14.17	16.95	15.27	14.02	14.57	14.44	
25	14.03	14.04	13.90	13.98	13.70	13.66	14.09	16.00	15.01	14.01	14.59	14.28	
26	14.06	14.03	13.93	13.93	13.70	13.58	14.26	15.79	14.85	14.00	14.37	14.13	
27	14.15	13.98	13.89	13.90	13.65	13.98	14.37	15.66	14.73	14.00	14.22	14.01	
28	14.26	13.95	13.85	13.85	13.62	14.05	14.30	15.60	14.65	13.98	14.13	13.98	
29	14.20	13.94	13.85	13.84	13.74	14.16	14.23	15.26	14.59	13.97		14.04	
30	14.11	13.93	13.87	13.83	14.48	14.21	14.17	14.87	14.55	13.95		13.98	
31		13.94		13.80	14.15		14.14		14.48	13.93		13.96	
Mean	13.92	14.23	13.97	14.02	13.69	13.82	14.29	14.85	16.38	14.15	14.11	14.00	
Max	14.26	15.05	14.28	14.40	14.48	14.21	14.92	18.20	20.45	14.46	14.59	14.44	20.45
Min	13.75	13.93	13.85	13.80	13.53	13.56	13.92	13.97	14.48	13.93	13.92	13.85	13.53

Annual Max Momentary Gage Height	20.50 M (MSL), at 6.00 Hours, on Dec 10, 1996
Zero Gage at Bottom Elevation	13.30 M (MSL), River Bed 12.92 M (MSL)
Left Bank Elevation	22.66 M (MSL)
Right Bank Elevation	22.66 M (MSL), Drainage Area 332 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.31	12.75	2.91	2.91	1.61	3.41	5.93	4.72	19.25	11.65	2.91	4.44	
2	2.14	27.50	2.73	2.82	1.08	3.07	4.31	4.31	14.67	10.83	2.82	4.85	
3	2.05	25.10	3.16	2.23	0.89	2.99	3.41	3.77	42.20	9.81	3.16	4.44	
4	2.48	18.12	3.50	2.14	0.76	3.50	2.82	3.25	42.20	9.24	3.33	4.72	
5	3.90	14.67	3.16	2.14	0.63	3.77	2.82	4.58	86.00	8.67	4.72	4.58	
6	4.85	11.10	3.07	2.57	0.56	3.41	3.77	3.77	79.52	8.29	3.50	4.18	
7	3.25	12.75	2.99	4.04	0.50	2.99	6.06	4.85	55.70	7.53	2.99	3.77	
8	2.73	12.47	2.65	9.24	0.42	2.48	10.00	4.85	82.60	7.53	4.98	4.04	
9	2.39	9.05	2.48	10.00	0.42	2.48	7.91	4.58	128.38	7.15	4.31	3.90	
10	2.31	6.77	2.65	8.29	1.47	2.23	5.80	5.26	149.00	6.77	4.31	3.25	
11	2.57	5.66	7.72	5.39	2.65	1.97	25.10	6.06	101.65	6.20	9.24	3.07	
12	2.91	5.39	4.98	4.98	1.73	1.80	19.25	5.26	76.77	5.80	6.58	2.82	
13	2.73	5.39	5.66	4.72	1.28	1.54	15.50	3.77	68.80	5.80	4.85	2.73	
14	2.05	5.12	5.80	8.29	1.02	1.34	13.30	3.25	70.25	5.66	5.80	2.65	
15	1.80	5.80	4.85	6.77	0.95	1.28	12.47	5.12	49.21	5.39	6.39	2.57	
16	1.47	6.20	4.04	6.39	0.69	1.15	8.29	5.80	39.50	4.85	4.98	2.31	
17	1.73	6.96	3.33	4.44	0.45	1.02	18.50	4.58	32.98	4.72	4.18	2.31	
18	1.80	5.66	3.25	3.77	0.40	0.95	11.65	5.26	30.30	4.85	3.64	2.39	
19	1.67	5.26	3.16	3.64	0.42	0.82	10.55	7.72	44.90	5.66	3.50	2.23	
20	1.67	4.72	3.50	3.41	0.47	0.56	8.29	36.80	49.67	5.26	3.33	2.23	
21	2.05	4.04	3.41	2.99	0.42	0.50	8.10	65.50	86.00	4.44	3.25	2.57	
22	1.54	4.18	3.16	2.91	0.40	0.45	7.53	104.10	60.50	4.18	3.16	2.82	
23	2.14	4.04	2.65	2.73	0.38	0.40	6.39	76.25	40.85	4.18	4.18	2.99	
24	4.18	4.18	2.57	3.77	0.32	0.82	5.80	71.75	32.08	3.77	14.67	11.10	
25	3.90	4.04	2.65	3.33	1.15	0.89	4.72	48.50	26.70	3.64	15.22	7.72	
26	4.31	3.90	2.91	2.91	1.15	0.45	7.34	43.78	23.88	3.50	9.43	5.26	
27	5.52	3.33	2.57	2.65	0.82	3.33	9.43	40.85	20.37	3.50	6.58	3.64	
28	7.34	3.07	2.23	2.23	0.63	4.18	8.10	39.50	17.37	3.33	5.26	3.33	
29	6.20	2.99	2.23	2.14	1.41	5.66	6.77	31.85	15.22	3.25		4.04	
30	4.98	2.91	2.39	2.05	12.20	6.39	5.80	24.22	14.13	3.07		3.33	
31		2.99		1.80	5.52		5.39		12.20	2.91		3.16	
Total	90.97	246.11	102.36	127.69	42.80	65.83	271.10	673.86	1612.85	181.43	151.27	117.44	3683.71 CMSDAY
Mean	3.03	7.94	3.41	4.12	1.38	2.19	8.75	22.46	52.03	5.85	5.40	3.79	10.09 CMS
Max	7.34	27.50	7.72	10.00	12.20	6.39	25.10	104.10	149.00	11.65	15.22	11.10	149.00 CMS
Min	1.47	2.91	2.23	1.80	0.32	0.40	2.82	3.25	12.20	2.91	2.82	2.23	0.32 CMS
Runoff	7.860	21.264	8.844	11.032	3.698	5.688	23.423	58.222	139.350	15.676	13.070	10.147	318.273 MCM

Momentary Peak 151.00 CMS, at 20.50 M (MSL), at 6.00 Hours, on Dec 10, 1996
Runoff Yield 30.40 Liters/Second/Square KM, Momentary Peak Yield 454.819 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA WEST COAST

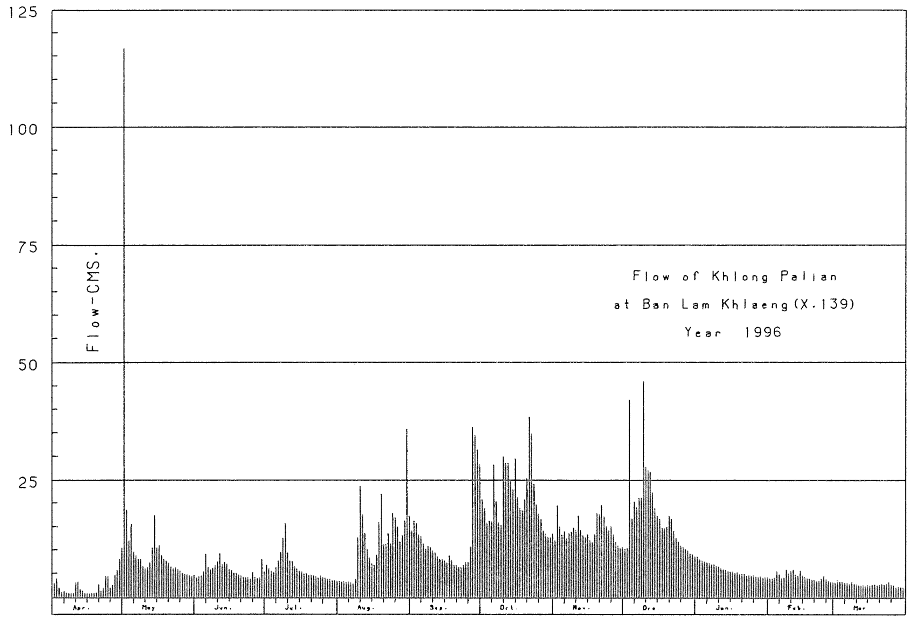
Khlong Palian at Ban Lam Khlaeng(2), Trang (X.139)

Location	Lat.07°-19′-08″ N., Long. 99°-49′-03″ E., 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.29 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 58 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.22	5.01	1.30	1.47	1.24	1.92	2.25	1.81	1.69	1.59	1.29	1.23	
2	1.28	2.14	1.31	1.43	1.24	2.02	2.15	2.18	1.71	1.56	1.28	1.26	
3	1.15	1.81	1.33	1.39	1.24	2.00	2.00	1.96	3.21	1.54	1.30	1.24	
4	1.08	1.98	1.38	1.38	1.23	1.87	2.02	1.87	2.05	1.53	1.39	1.23	
5	1.10	1.66	1.63	1.45	1.23	1.86	2.01	1.91	2.23	1.52	1.35	1.23	
6	1.07	1.60	1.45	1.53	1.22	1.77	2.61	1.83	2.16	1.50	1.29	1.22	
7	1.07	1.56	1.41	1.65	1.21	1.70	2.23	1.89	2.26	1.49	1.30	1.21	
8	1.06	1.55	1.44	1.84	1.28	1.73	2.00	1.90	2.27	1.48	1.42	1.24	
9	1.07	1.46	1.47	1.99	1.84	1.72	1.98	1.95	3.36	1.47	1.35	1.21	
10	1.22	1.42	1.52	1.65	2.39	1.67	2.69	1.92	2.59	1.45	1.39	1.20	
11	1.24	1.44	1.64	1.54	2.09	1.65	2.62	2.08	2.55	1.43	1.42	1.19	
12	1.13	1.51	1.48	1.52	1.89	1.59	2.62	1.92	2.54	1.42	1.34	1.19	
13	1.10	1.72	1.52	1.46	1.70	1.56	2.45	1.87	2.32	1.41	1.33	1.19	
14	1.07	2.08	1.49	1.42	1.57	1.55	2.35	1.84	2.16	1.40	1.40	1.18	
15	1.06	1.71	1.42	1.40	1.50	1.53	2.67	1.88	2.07	1.39	1.33	1.19	
16	1.06	1.74	1.40	1.38	1.47	1.51	2.27	1.81	2.04	1.38	1.30	1.18	
17	1.07	1.61	1.37	1.36	1.62	1.61	2.15	1.79	1.95	1.37	1.29	1.20	
18	1.06	1.55	1.36	1.35	2.00	1.54	2.13	1.88	1.94	1.37	1.28	1.20	
19	1.08	1.54	1.34	1.34	2.31	1.48	2.25	2.10	1.96	1.35	1.27	1.19	
20	1.20	1.50	1.32	1.33	1.75	1.47	2.47	2.09	2.08	1.35	1.26	1.19	
21	1.10	1.45	1.31	1.33	1.76	1.45	3.06	2.19	2.04	1.35	1.25	1.21	
22	1.14	1.43	1.30	1.31	1.89	1.44	2.90	2.07	1.91	1.33	1.25	1.20	
23	1.32	1.44	1.30	1.30	1.77	1.48	2.41	1.96	1.84	1.33	1.28	1.21	
24	1.31	1.42	1.28	1.32	2.10	1.51	2.20	1.92	1.79	1.33	1.32	1.24	
25	1.15	1.39	1.37	1.31	2.05	1.52	2.09	1.96	1.75	1.33	1.28	1.19	
26	1.18	1.37	1.30	1.29	1.96	1.73	2.04	1.87	1.72	1.32	1.25	1.18	
27	1.34	1.35	1.29	1.28	1.80	2.96	1.92	1.80	1.70	1.31	1.24	1.16	
28	1.40	1.34	1.29	1.27	1.86	2.89	1.88	1.74	1.67	1.31	1.23	1.16	
29	1.56	1.33	1.56	1.26	2.02	2.75	1.85	1.71	1.64	1.30		1.16	
30	1.71	1.31	1.39	1.25	2.95	2.61	1.84	1.72	1.62	1.30		1.15	
31		1.33		1.25	2.07		1.88		1.60	1.30		1.15	
Mean	1.19	1.67	1.40	1.42	1.75	1.80	2.26	1.91	2.08	1.40	1.31	1.20	
Max	1.71	5.01	1.64	1.99	2.95	2.96	3.06	2.19	3.36	1.59	1.42	1.26	5.01
Min	1.06	1.31	1.28	1.25	1.21	1.44	1.84	1.71	1.60	1.30	1.23	1.15	1.06

Annual Max Momentary Gage Height	5.60 M (AD), at 12.00 Hours, on May 1, 1996
Zero Gage at Bottom Elevation	0.00 M (AD), River Bed 0.81 M (AD)
Left Bank Elevation	4.28 M (AD)
Right Bank Elevation	4.41 M (AD), Drainage Area 153 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.19	116.86	4.35	6.89	3.48	14.40	21.00	12.20	10.30	8.75	4.21	3.34	
2	4.06	18.80	4.49	6.26	3.48	16.40	19.00	19.60	10.61	8.28	4.06	3.77	
3	2.17	12.20	4.79	5.66	3.48	16.00	16.00	15.20	42.25	7.97	4.35	3.48	
4	1.16	15.60	5.51	5.51	3.34	13.40	16.40	13.40	17.00	7.82	5.66	3.34	
5	1.45	9.83	9.37	6.58	3.34	13.20	16.20	14.20	20.60	7.66	5.08	3.34	
6	1.02	8.90	6.58	7.82	3.19	11.54	28.42	12.60	19.20	7.35	4.21	3.19	
7	1.02	8.28	5.96	9.68	3.05	10.45	20.60	13.80	21.20	7.20	4.35	3.05	
8	0.87	8.13	6.42	12.80	4.06	10.92	16.00	14.00	21.40	7.04	6.11	3.48	
9	1.02	6.73	6.89	15.80	12.80	10.76	15.60	15.00	46.00	6.89	5.08	3.05	
10	3.19	6.11	7.66	9.68	23.80	9.99	30.18	14.40	27.99	6.58	5.66	2.90	
11	3.48	6.42	9.52	7.97	17.80	9.68	28.64	17.60	27.15	6.26	6.11	2.76	
12	1.89	7.51	7.04	7.66	13.80	8.75	28.64	14.40	26.94	6.11	4.93	2.76	
13	1.45	10.76	7.66	6.73	10.45	8.28	25.05	13.40	22.40	5.96	4.79	2.76	
14	1.02	17.60	7.20	6.11	8.44	8.13	23.00	12.80	19.20	5.80	5.80	2.61	
15	0.87	10.61	6.11	5.80	7.35	7.82	29.74	13.60	17.40	5.66	4.79	2.76	
16	0.87	11.07	5.80	5.51	6.89	7.51	21.40	12.20	16.80	5.51	4.35	2.61	
17	1.02	9.06	5.37	5.22	9.21	9.06	19.00	11.85	15.00	5.37	4.21	2.90	
18	0.87	8.13	5.22	5.08	16.00	7.97	18.60	13.60	14.80	5.37	4.06	2.90	
19	1.16	7.97	4.93	4.93	22.20	7.04	21.00	18.00	15.20	5.08	3.92	2.76	
20	2.90	7.35	4.64	4.79	11.23	6.89	25.47	17.80	17.60	5.08	3.77	2.76	
21	1.45	6.58	4.49	4.79	11.38	6.58	38.64	19.80	16.80	5.08	3.63	3.05	
22	2.03	6.26	4.35	4.49	13.80	6.42	34.90	17.40	14.20	4.79	3.63	2.90	
23	4.64	6.42	4.35	4.35	11.54	7.04	24.21	15.20	12.80	4.79	4.06	3.05	
24	4.49	6.11	4.06	4.64	18.00	7.51	20.00	14.40	11.85	4.79	4.64	3.48	
25	2.17	5.66	5.37	4.49	17.00	7.66	17.80	15.20	11.23	4.79	4.06	2.76	
26	2.61	5.37	4.35	4.21	15.20	10.92	16.80	13.40	10.76	4.64	3.63	2.61	
27	4.93	5.08	4.21	4.06	12.00	36.28	14.40	12.00	10.45	4.49	3.48	2.32	
28	5.80	4.93	4.21	3.92	13.20	34.67	13.60	11.07	9.99	4.49	3.34	2.32	
29	8.28	4.79	8.28	3.77	16.40	31.50	13.00	10.61	9.52	4.35		2.32	
30	10.61	4.49	5.66	3.63	36.05	28.42	12.80	10.76	9.21	4.35		2.17	
31		4.79		3.63	17.40		13.60		8.90	4.35		2.17	
Total	81.69	368.40	174.84	192.46	369.36	385.19	659.69	429.49	554.75	182.65	125.97	89.67	3614.16 CMSDAY
Mean	2.72	11.88	5.83	6.21	11.91	12.84	21.28	14.32	17.90	5.89	4.50	2.89	9.90 CMS
Max	10.61	116.86	9.52	15.80	36.05	36.28	38.64	19.80	46.00	8.75	6.11	3.77	116.86 CMS
Min	0.87	4.49	4.06	3.63	3.05	6.42	12.80	10.61	8.90	4.35	3.34	2.17	0.87 CMS
Runoff	7.058	31.830	15.106	16.629	31.913	33.280	56.997	37.108	47.930	15.781	10.884	7.747	312.263 MCM

Momentary Peak 162.80 CMS, at 5.60 M (AD), at 12.00 Hours, on May 1, 1996

Runoff Yield 64.72 Liters/Second/Square KM, Momentary Peak Yield 1064.052 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

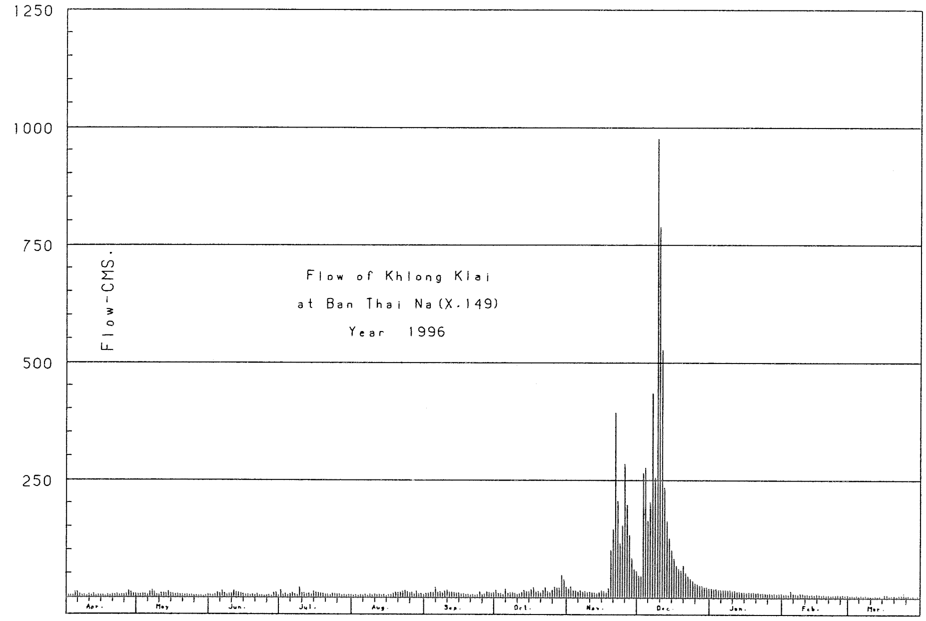
Khlong Klai at Ban Thai Na, Nakhon Si Thammarat (X.149)

Location	Lat.08°-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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 63 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.72	28.78	28.70	29.00	28.71	28.82	29.01	29.08	29.45	29.08	28.78	28.69	
2	28.68	28.74	28.73	28.77	28.71	28.86	28.84	29.14	29.45	29.07	28.77	28.68	
3	28.72	28.82	28.73	28.80	28.70	28.88	28.82	29.02	30.64	29.06	28.77	28.67	
4	28.90	28.75	28.89	28.75	28.71	28.90	28.80	28.98	30.68	29.05	28.96	28.68	
5	28.93	28.74	28.80	28.76	28.72	29.12	29.05	28.95	30.19	29.03	28.83	28.68	
6	28.75	28.88	29.00	28.88	28.74	28.91	28.85	29.00	30.38	29.04	28.79	28.67	
7	28.70	29.02	28.82	28.76	28.71	28.93	28.87	28.95	31.21	29.02	28.78	28.66	
8	28.69	28.88	28.75	28.74	28.75	28.87	28.90	28.96	30.60	29.03	28.81	28.67	
9	28.68	28.77	28.77	29.11	28.73	28.95	28.82	28.90	32.38	29.02	28.83	28.66	
10	28.74	28.75	28.84	28.87	28.77	29.03	28.79	28.91	32.02	29.00	28.78	28.65	
11	28.71	28.82	28.99	28.84	28.75	28.88	28.80	28.90	31.44	28.98	28.76	28.65	
12	28.77	28.85	28.94	28.82	28.75	28.93	28.91	28.86	30.51	28.95	28.75	28.64	
13	28.69	28.80	28.86	28.80	28.74	28.87	29.01	28.84	30.19	28.93	28.74	28.64	
14	28.68	28.96	28.86	28.78	28.73	28.87	28.97	28.87	29.99	28.92	28.75	28.63	
15	28.71	28.81	28.78	28.94	28.70	28.85	28.93	29.02	29.86	28.90	28.76	28.63	
16	28.67	28.78	28.75	28.90	28.72	28.81	29.05	28.95	29.75	28.89	28.73	28.73	
17	28.66	28.78	28.75	28.84	28.78	28.80	29.11	28.91	29.65	28.89	28.73	28.76	
18	28.71	28.78	28.73	28.86	28.81	28.78	28.94	29.09	29.59	28.89	28.72	28.65	
19	28.72	28.76	28.73	28.80	28.91	28.76	28.96	29.86	29.56	28.88	28.72	28.64	
20	28.73	28.73	28.73	28.77	28.85	28.75	28.90	30.09	29.65	28.87	28.71	28.68	
21	28.75	28.75	28.78	28.75	28.92	28.74	29.00	31.08	29.52	28.86	28.70	28.65	
22	28.76	28.73	28.71	28.74	28.94	28.73	29.13	30.40	29.44	28.85	28.69	28.66	
23	28.73	28.71	28.69	28.80	29.01	28.73	28.96	29.93	29.40	28.84	28.73	28.70	
24	28.72	28.70	28.69	28.82	28.92	28.94	28.90	30.14	29.33	28.84	28.72	28.82	
25	28.76	28.69	28.70	28.80	28.89	28.76	29.04	30.71	29.27	28.83	28.73	28.68	
26	28.77	28.67	28.69	28.75	28.88	28.78	29.13	30.35	29.23	28.82	28.71	28.65	
27	28.98	28.69	28.68	28.73	28.81	28.94	29.12	30.03	29.21	28.81	28.70	28.64	
28	28.87	28.67	28.87	28.72	28.95	28.88	29.10	29.75	29.18	28.81	28.71	28.63	
29	28.81	28.66	28.86	28.72	28.83	28.86	29.47	29.59	29.14	28.80		28.63	
30	28.76	28.66	28.72	28.72	28.80	28.86	29.36	29.54	29.13	28.79		28.63	
31		28.77		28.72	28.77		29.13		29.10	28.79		28.61	
Mean	28.75	28.77	28.78	28.81	28.80	28.86	28.99	29.43	29.97	28.92	28.76	28.67	
Max	28.98	29.02	29.00	29.11	29.01	29.12	29.47	31.08	32.38	29.08	28.96	28.82	32.38
Min	28.66	28.66	28.68	28.72	28.70	28.73	28.79	28.84	29.10	28.79	28.69	28.61	28.61

Annual Max Momentary Gage Height 34.02 M (MSL), at 16.00 Hours, on Dec 9, 1996
Zero Gage at Bottom Elevation 28.30 M (MSL), River Bed 26.15 M (MSL)
Left Bank Elevation 35.93 M (MSL)
Right Bank Elevation 35.94 M (MSL), Drainage Area 469 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.60	8.40	6.00	16.00	6.30	9.70	16.55	20.40	47.25	20.40	8.40	5.70	
2	5.40	7.20	6.90	8.10	6.30	11.10	10.40	23.70	47.25	19.85	8.10	5.40	
3	6.60	9.70	6.90	9.00	6.00	11.80	9.70	17.10	266.40	19.30	8.10	5.10	
4	12.50	7.50	12.15	7.50	6.30	12.50	9.00	15.30	276.80	18.75	14.60	5.40	
5	13.55	7.20	9.00	7.80	6.60	22.60	18.75	14.25	165.10	17.65	10.05	5.40	
6	7.50	11.80	16.00	11.80	7.20	12.85	10.75	16.00	203.90	18.20	8.70	5.10	
7	6.00	17.10	9.70	7.80	6.30	13.55	11.45	14.25	436.00	17.10	8.40	4.80	
8	5.70	11.80	7.50	7.20	7.50	11.45	12.50	14.60	256.00	17.65	9.35	5.10	
9	5.40	8.10	8.10	22.05	6.90	14.25	9.70	12.50	976.70	17.10	10.05	4.80	
10	7.20	7.50	10.40	11.45	8.10	17.65	8.70	12.85	787.70	16.00	8.40	4.50	
11	6.30	9.70	15.65	10.40	7.50	11.80	9.00	12.50	528.00	15.30	7.80	4.50	
12	8.10	10.75	13.90	9.70	7.50	13.55	12.85	11.10	234.40	14.25	7.50	4.20	
13	5.70	9.00	11.10	9.00	7.20	11.45	16.55	10.40	165.10	13.55	7.20	4.20	
14	5.40	14.60	11.10	8.40	6.90	11.45	14.95	11.45	127.10	13.20	7.50	3.90	
15	6.30	9.35	8.40	13.90	6.00	10.75	13.55	17.10	102.40	12.50	7.80	3.90	
16	5.10	8.40	7.50	12.50	6.60	9.35	18.75	14.25	84.00	12.15	6.90	6.90	
17	4.80	8.40	7.50	10.40	8.40	9.00	22.05	12.85	70.00	12.15	6.90	7.80	
18	6.30	8.40	6.90	11.10	9.35	8.40	13.90	20.95	61.95	12.15	6.60	4.50	
19	6.60	7.80	6.90	9.00	12.85	7.80	14.60	102.40	58.80	11.80	6.60	4.20	
20	6.90	6.90	6.90	8.10	10.75	7.50	12.50	146.10	70.00	11.45	6.30	5.40	
21	7.50	7.50	8.40	7.50	13.20	7.20	16.00	393.60	54.60	11.10	6.00	4.50	
22	7.80	6.90	6.30	7.20	13.90	6.90	23.15	208.00	46.20	10.75	5.70	4.80	
23	6.90	6.30	5.70	9.00	16.55	6.90	14.60	115.70	42.00	10.40	6.90	6.00	
24	6.60	6.00	5.70	9.70	13.20	13.90	12.50	155.60	36.75	10.40	6.60	9.70	
25	7.80	5.70	6.00	9.00	12.15	7.80	18.20	284.60	32.25	10.05	6.90	5.40	
26	8.10	5.10	5.70	7.50	11.80	8.40	23.15	197.75	29.25	9.70	6.30	4.50	
27	15.30	5.70	5.40	6.90	9.35	13.90	22.60	134.70	27.75	9.35	6.00	4.20	
28	11.45	5.10	11.45	6.60	14.25	11.80	21.50	84.00	25.90	9.35	6.30	3.90	
29	9.35	4.80	11.10	6.60	10.05	11.10	49.35	61.95	23.70	9.00		3.90	
30	7.80	4.80	6.60	6.60	9.00	11.10	39.00	56.70	23.15	8.70		3.90	
31		8.10		6.60	8.10		23.15		21.50	8.70		3.30	
Total	226.55	255.60	260.85	294.40	282.10	337.50	529.40	2212.65	5327.90	418.00	215.95	154.90	10515.80 CMSDAY
Mean	7.55	8.25	8.69	9.50	9.10	11.25	17.08	73.75	171.87	13.48	7.71	5.00	28.81 CMS
Max	15.30	17.10	16.00	22.05	16.55	22.60	49.35	393.60	976.70	20.40	14.60	9.70	976.70 CMS
Min	4.80	4.80	5.40	6.60	6.00	6.90	8.70	10.40	21.50	8.70	5.70	3.30	3.30 CMS
Runoff	19.574	22.084	22.537	25.436	24.373	29.160	45.740	191.173	460.331	36.115	18.658	13.383	908.565 MCM

Momentary Peak 2321.50 CMS, at 34.02 M (MSL), at 16.00 Hours, on Dec 9, 1996
Runoff Yield 61.43 Liters/Second/Square KM, Momentary Peak Yield 4949.894 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA WEST COAST

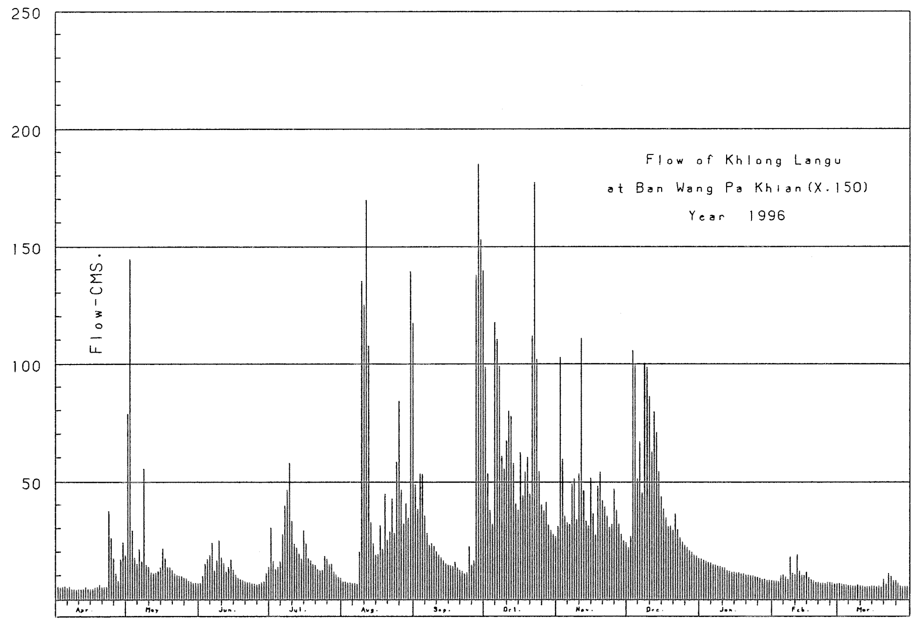
Khlong Langu at Ban Wang Pa Khian, Satun (X.150)

Location	Lat.06°-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 65 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.78	4.03	0.88	2.13	0.93	2.92	4.62	2.17	1.73	1.50	0.96	0.89	
2	0.72	5.81	1.07	1.44	0.91	2.50	3.12	4.74	1.97	1.48	0.95	0.86	
3	0.76	2.08	1.39	1.26	0.90	3.11	2.47	3.35	4.83	1.45	0.95	0.85	
4	0.77	1.51	1.48	1.30	0.89	3.11	2.21	2.37	4.65	1.43	1.09	0.84	
5	0.73	1.37	1.58	1.44	0.88	2.36	5.15	2.23	3.04	1.41	1.13	0.83	
6	0.76	1.69	1.82	2.01	0.87	2.02	4.96	2.21	3.62	1.38	1.07	0.82	
7	0.68	1.44	1.23	2.56	0.86	1.79	4.64	2.94	2.79	1.36	1.01	0.81	
8	0.66	3.20	1.45	2.83	1.65	1.81	3.40	3.04	4.68	1.34	1.55	0.80	
9	0.65	1.35	1.88	3.29	5.58	1.77	3.20	2.29	4.62	1.33	1.16	0.85	
10	0.66	1.32	1.53	2.27	5.33	1.65	3.64	3.11	4.25	1.31	1.14	0.82	
11	0.67	1.17	1.39	1.80	6.38	1.58	4.06	4.98	3.47	1.29	1.59	0.79	
12	0.68	1.16	1.20	1.72	4.88	1.53	4.00	2.83	4.06	1.24	1.23	0.78	
13	0.74	1.16	1.30	1.61	2.25	1.45	3.28	2.26	3.77	1.21	1.10	0.78	
14	0.68	1.22	1.48	1.49	1.81	1.39	2.60	2.17	3.15	1.20	1.10	0.80	
15	0.66	1.29	1.23	2.07	1.59	1.36	2.47	3.05	2.73	1.19	1.20	0.80	
16	0.68	1.71	1.11	1.82	1.59	1.34	3.45	2.42	2.50	1.19	1.05	0.79	
17	0.72	1.51	1.04	1.51	2.17	1.33	2.73	2.00	2.33	1.18	1.00	0.78	
18	0.76	1.31	0.98	1.45	1.71	1.42	3.15	2.90	2.17	1.16	0.96	0.80	
19	0.82	1.29	0.98	1.38	2.76	1.30	3.38	3.14	2.17	1.15	0.92	0.78	
20	0.75	1.24	0.92	1.35	1.89	1.23	2.77	2.66	2.10	1.13	0.91	1.00	
21	0.74	1.14	0.91	1.26	2.06	1.20	5.00	2.53	2.42	1.11	0.90	0.87	
22	0.76	1.11	0.89	1.21	2.68	1.15	6.54	2.37	2.10	1.11	0.89	1.16	
23	2.45	1.08	0.87	1.24	2.02	1.17	4.72	2.15	1.95	1.10	0.89	1.09	
24	1.93	1.08	0.85	1.55	3.31	1.76	3.16	2.20	1.85	1.08	0.91	0.96	
25	1.51	1.04	0.84	1.50	4.20	1.36	2.58	2.85	1.79	1.07	0.92	0.98	
26	1.14	1.01	0.84	1.36	2.83	1.45	2.46	2.48	1.74	1.03	0.89	0.88	
27	0.95	0.95	0.90	1.39	2.22	5.65	2.62	2.22	1.69	1.01	0.86	0.81	
28	1.47	0.91	0.92	1.19	2.60	6.72	2.20	2.00	1.64	1.00	0.86	0.77	
29	1.83	0.88	1.17	1.11	2.32	6.00	2.08	1.88	1.59	0.98		0.80	
30	1.58	0.87	1.30	1.06	5.68	5.69	2.01	1.83	1.56	0.97		0.77	
31		0.86		1.02	5.14		1.95		1.52	0.96		0.75	
Mean	0.96	1.54	1.18	1.63	2.61	2.30	3.37	2.65	2.73	1.20	1.04	0.85	
Max	2.45	5.81	1.88	3.29	6.38	6.72	6.54	4.98	4.83	1.50	1.59	1.16	6.72
Min	0.65	0.86	0.84	1.02	0.86	1.15	1.95	1.83	1.52	0.96	0.86	0.75	0.65

Annual Max Momentary Gage Height 6.74 M (AD), at 9.00 Hours, on Sep 28, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.05 M (AD)
Left Bank Elevation 8.39 M (AD)
Right Bank Elevation 8.43 M (AD), Drainage Area 552 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.78	79.16	7.12	30.53	7.82	48.68	98.70	31.37	22.13	17.50	8.24	7.26	
2	5.12	144.84	9.92	16.36	7.54	38.70	53.72	102.90	27.17	17.12	8.10	6.84	
3	5.56	29.48	15.42	13.08	7.40	53.46	38.01	59.70	106.05	16.55	8.10	6.70	
4	5.67	17.69	17.12	13.80	7.26	53.46	32.22	35.74	99.75	16.17	10.24	6.56	
5	5.23	15.06	19.02	16.36	7.12	35.52	118.00	32.66	51.64	15.79	10.88	6.42	
6	5.56	21.29	24.02	28.01	6.98	28.22	110.60	32.22	67.16	15.24	9.92	6.28	
7	4.68	16.36	12.54	40.08	6.84	23.39	99.40	49.16	45.56	14.88	8.96	6.14	
8	4.46	55.80	16.55	46.52	20.45	23.81	61.00	51.64	100.80	14.52	18.45	6.00	
9	4.35	14.70	25.28	58.14	135.20	22.97	55.80	33.98	98.70	14.34	11.36	6.70	
10	4.46	14.16	18.07	33.54	125.20	20.45	67.72	53.46	86.25	13.98	11.04	6.28	
11	4.57	11.52	15.42	23.60	170.10	19.02	80.12	111.30	62.96	13.62	19.21	5.89	
12	4.68	11.36	12.00	21.92	107.80	18.07	78.20	46.52	80.12	12.72	12.54	5.78	
13	5.34	11.36	13.80	19.61	33.10	16.55	57.88	33.32	71.36	12.18	10.40	5.78	
14	4.68	12.36	17.12	17.31	23.81	15.42	41.00	31.37	54.50	12.00	10.40	6.00	
15	4.46	13.62	12.54	29.27	19.21	14.88	38.01	51.90	44.12	11.84	12.00	6.00	
16	4.68	21.71	10.56	24.02	19.21	14.52	62.40	36.86	38.70	11.84	9.60	5.89	
17	5.12	17.69	9.44	17.69	31.37	14.34	44.12	27.80	34.86	11.68	8.80	5.78	
18	5.56	13.98	8.52	16.55	21.71	15.98	54.50	48.20	31.37	11.36	8.24	6.00	
19	6.28	13.62	8.52	15.24	44.84	13.80	60.48	54.24	31.37	11.20	7.68	5.78	
20	5.45	12.72	7.68	14.70	25.49	12.54	45.08	42.44	29.90	10.88	7.54	8.80	
21	5.34	11.04	7.54	13.08	29.06	12.00	112.00	39.39	36.86	10.56	7.40	6.98	
22	5.56	10.56	7.26	12.18	42.92	11.20	177.30	35.74	29.90	10.56	7.26	11.36	
23	37.55	10.08	6.98	12.72	28.22	11.52	102.20	30.95	26.75	10.40	7.26	10.24	
24	26.33	10.08	6.70	18.45	58.66	22.76	54.76	32.00	24.65	10.08	7.54	8.24	
25	17.69	9.44	6.56	17.50	84.60	14.88	40.54	47.00	23.39	9.92	7.68	8.52	
26	11.04	8.96	6.56	14.88	46.52	16.55	37.78	38.24	22.34	9.28	7.26	7.12	
27	8.10	8.10	7.40	15.42	32.44	138.10	41.48	32.44	21.29	8.96	6.84	6.14	
28	16.93	7.54	7.68	11.84	41.00	185.40	32.00	27.80	20.24	8.80	6.84	5.67	
29	24.23	7.12	11.52	10.56	34.64	153.20	29.48	25.28	19.21	8.52		6.00	
30	19.02	6.98	13.80	9.76	139.36	139.78	28.01	24.23	18.64	8.38		5.67	
31		6.84		9.12	117.60		26.75		17.88	8.24		5.45	
Total	273.48	645.22	362.66	641.84	1483.47	1209.17	1979.26	1299.85	1445.62	379.11	269.78	208.27	10197.73 CMSDAY
Mean	9.12	20.81	12.09	20.70	47.85	40.31	63.85	43.33	46.63	12.23	9.63	6.72	27.94 CMS
Max	37.55	144.84	25.28	58.14	170.10	185.40	177.30	111.30	106.05	17.50	19.21	11.36	185.40 CMS
Min	4.35	6.84	6.56	9.12	6.84	11.20	26.75	24.23	17.88	8.24	6.84	5.45	4.35 CMS
Runoff	23.629	55.747	31.334	55.455	128.172	104.472	171.008	112.307	124.902	32.755	23.309	17.995	881.084 MCM

Momentary Peak 186.30 CMS, at 6.74 M (AD), at 9.00 Hours, on Sep 28, 1996
Runoff Yield 50.61 Liters/Second/Square KM, Momentary Peak Yield 337.500 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

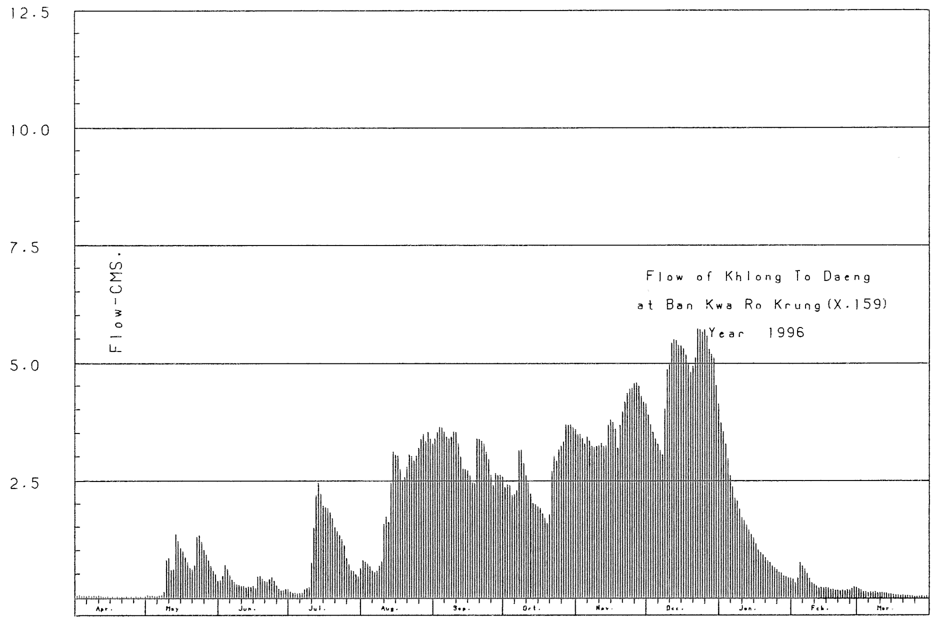
Khlong To Daeng at Ban Kwa Ro Krung, Narathiwat (X.159)

Location	Lat. 06°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	Staff gage.
Zero Gage at Bottom	+2.10 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+4.630 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	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 fair. Stage-discharge relation defined by 18 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	2.20	2.52	2.29	2.80	3.63	3.40	3.65	3.73	3.70	2.54	2.38	
2	2.20	2.20	2.60	2.27	2.78	3.66	3.41	3.65	3.69	3.66	2.49	2.35	
3	2.19	2.19	2.74	2.26	2.76	3.68	3.41	3.63	3.66	3.61	2.57	2.31	
4	2.19	2.19	2.70	2.26	2.72	3.68	3.35	3.61	3.63	3.54	2.77	2.30	
5	2.18	2.18	2.60	2.25	2.67	3.66	3.36	3.64	3.61	3.46	2.74	2.29	
6	2.18	2.18	2.54	2.27	2.64	3.64	3.38	3.62	3.58	3.40	2.69	2.29	
7	2.18	2.21	2.50	2.35	2.67	3.63	3.58	3.60	3.56	3.34	2.64	2.30	
8	2.18	2.29	2.46	2.39	2.73	3.64	3.58	3.59	3.75	3.32	2.56	2.30	
9	2.18	2.80	2.45	2.40	2.79	3.66	3.52	3.60	3.90	3.27	2.50	2.29	
10	2.18	2.82	2.44	2.77	3.14	3.66	3.46	3.60	3.92	3.20	2.47	2.29	
11	2.18	2.67	2.42	3.11	3.20	3.61	3.42	3.61	3.99	3.17	2.43	2.28	
12	2.17	2.69	2.40	3.35	3.16	3.55	3.36	3.60	4.00	3.14	2.40	2.28	
13	2.17	3.06	2.41	3.42	3.42	3.49	3.31	3.60	4.00	3.09	2.40	2.26	
14	2.16	2.99	2.41	3.36	3.57	3.49	3.30	3.69	3.98	3.06	2.40	2.25	
15	2.15	2.93	2.42	3.29	3.56	3.48	3.29	3.71	3.98	3.02	2.39	2.24	
16	2.15	2.90	2.39	3.28	3.55	3.46	3.27	3.70	3.97	2.97	2.39	2.23	
17	2.15	2.84	2.58	3.27	3.49	3.42	3.23	3.67	3.95	2.92	2.37	2.22	
18	2.15	2.77	2.60	3.24	3.43	3.42	3.19	3.59	3.92	2.89	2.36	2.21	
19	2.16	2.71	2.55	3.19	3.45	3.63	3.15	3.69	3.89	2.87	2.34	2.21	
20	2.16	2.68	2.52	3.12	3.50	3.63	3.22	3.74	3.91	2.83	2.33	2.21	
21	2.16	2.74	2.50	3.08	3.56	3.62	3.48	3.78	3.94	2.80	2.33	2.21	
22	2.16	3.03	2.55	3.05	3.55	3.61	3.55	3.81	4.03	2.77	2.33	2.20	
23	2.16	3.05	2.57	3.01	3.53	3.57	3.53	3.83	4.03	2.74	2.33	2.20	
24	2.16	2.99	2.53	2.96	3.55	3.54	3.58	3.83	4.02	2.71	2.34	2.19	
25	2.16	2.92	2.45	2.83	3.59	3.46	3.60	3.85	4.03	2.69	2.36	2.18	
26	2.16	2.86	2.36	2.75	3.63	3.41	3.62	3.85	4.01	2.65	2.38	2.17	
27	2.16	2.80	2.33	2.68	3.65	3.47	3.69	3.84	3.97	2.63	2.42	2.18	
28	2.16	2.73	2.32	2.66	3.62	3.46	3.69	3.80	3.95	2.60	2.40	2.18	
29	2.16	2.67	2.37	2.62	3.66	3.46	3.69	3.78	3.94	2.58		2.19	
30	2.16	2.61	2.36	2.58	3.63	3.45	3.68	3.77	3.84	2.57		2.19	
31		2.52		2.70	3.61		3.67		3.77	2.56		2.18	
Mean	2.17	2.66	2.49	2.81	3.28	3.56	3.45	3.70	3.88	3.02	2.45	2.24	
Max	2.20	3.06	2.74	3.42	3.66	3.68	3.69	3.85	4.03	3.70	2.77	2.38	4.03
Min	2.15	2.18	2.32	2.25	2.64	3.41	3.15	3.59	3.56	2.56	2.33	2.17	2.15

Annual Max Momentary Gage Height 4.03 M (MSL), at 6.00 Hours, on Dec 22, 1996
Zero Gage at Bottom Elevation 2.10 M (MSL), River Bed 2.09 M (MSL)
Left Bank Elevation 4.37 M (MSL)
Right Bank Elevation 4.70 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.07	0.38	0.14	0.82	3.40	2.38	3.50	3.92	3.75	0.41	0.22	
2	0.07	0.07	0.49	0.13	0.78	3.55	2.42	3.50	3.70	3.55	0.34	0.19	
3	0.06	0.06	0.71	0.12	0.75	3.65	2.42	3.40	3.55	3.30	0.45	0.16	
4	0.06	0.06	0.64	0.12	0.68	3.65	2.19	3.30	3.40	2.98	0.77	0.15	
5	0.06	0.06	0.49	0.11	0.60	3.55	2.23	3.45	3.30	2.63	0.71	0.14	
6	0.06	0.06	0.41	0.13	0.55	3.45	2.30	3.35	3.16	2.38	0.63	0.14	
7	0.06	0.08	0.35	0.19	0.60	3.40	3.16	3.25	3.07	2.15	0.55	0.15	
8	0.06	0.14	0.31	0.23	0.69	3.45	3.16	3.21	4.03	2.08	0.43	0.15	
9	0.06	0.82	0.29	0.24	0.80	3.55	2.89	3.25	4.88	1.92	0.35	0.14	
10	0.06	0.86	0.28	0.77	1.58	3.55	2.63	3.25	5.00	1.74	0.32	0.14	
11	0.06	0.60	0.26	1.51	1.74	3.30	2.46	3.30	5.44	1.66	0.27	0.13	
12	0.05	0.63	0.24	2.19	1.64	3.03	2.23	3.25	5.50	1.58	0.24	0.13	
13	0.05	1.38	0.25	2.46	2.46	2.76	2.04	3.25	5.50	1.46	0.24	0.12	
14	0.04	1.22	0.25	2.23	3.12	2.76	2.00	3.70	5.38	1.38	0.24	0.11	
15	0.04	1.07	0.26	1.97	3.07	2.72	1.97	3.81	5.38	1.29	0.23	0.10	
16	0.04	1.00	0.23	1.95	3.03	2.63	1.92	3.75	5.31	1.17	0.23	0.09	
17	0.04	0.89	0.46	1.92	2.76	2.46	1.82	3.60	5.19	1.05	0.21	0.09	
18	0.04	0.77	0.49	1.84	2.51	2.46	1.71	3.21	5.00	0.98	0.20	0.08	
19	0.04	0.66	0.42	1.71	2.59	3.40	1.61	3.70	4.82	0.95	0.19	0.08	
20	0.04	0.61	0.38	1.53	2.80	3.40	1.79	3.97	4.94	0.87	0.18	0.08	
21	0.04	0.71	0.35	1.43	3.07	3.35	2.72	4.19	5.13	0.82	0.18	0.08	
22	0.04	1.31	0.42	1.36	3.03	3.30	3.03	4.36	5.73	0.77	0.18	0.07	
23	0.04	1.36	0.45	1.26	2.94	3.12	2.94	4.47	5.73	0.71	0.18	0.07	
24	0.04	1.22	0.39	1.14	3.03	2.98	3.16	4.47	5.66	0.66	0.19	0.06	
25	0.04	1.05	0.29	0.87	3.21	2.63	3.25	4.59	5.73	0.63	0.20	0.06	
26	0.04	0.93	0.20	0.73	3.40	2.42	3.35	4.59	5.58	0.57	0.22	0.05	
27	0.04	0.82	0.18	0.61	3.50	2.67	3.70	4.53	5.31	0.54	0.26	0.06	
28	0.04	0.69	0.17	0.58	3.35	2.63	3.70	4.30	5.19	0.49	0.24	0.06	
29	0.04	0.60	0.21	0.52	3.55	2.63	3.70	4.19	5.13	0.46		0.06	
30	0.04	0.51	0.20	0.46	3.40	2.59	3.65	4.14	4.53	0.45		0.06	
31		0.38		0.64	3.30		3.60		4.14	0.43		0.06	
Total	1.46	20.69	10.45	31.09	69.35	92.44	82.13	112.83	148.33	45.40	8.84	3.28	626.29 CMSDAY
Mean	0.05	0.67	0.35	1.00	2.24	3.08	2.65	3.76	4.78	1.46	0.32	0.11	1.72 CMS
Max	0.07	1.38	0.71	2.46	3.55	3.65	3.70	4.59	5.73	3.75	0.77	0.22	5.73 CMS
Min	0.04	0.06	0.17	0.11	0.55	2.42	1.61	3.21	3.07	0.43	0.18	0.05	0.04 CMS
Runoff	0.126	1.788	0.903	2.686	5.992	7.987	7.096	9.749	12.816	3.923	0.764	0.283	54.111 MCM

Momentary Peak 5.73 CMS, at 4.03 M (MSL), at 6.00 Hours, on Dec 22, 1996

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENNINSULA EAST COAST

Khlong Ai Khieo at Ban Ai Khieo, Nakhon Si Thammarat (X.165)

Location	Lat. 08°-33′-47″ N., Long. 99°-48′-59″ E., on right bank at Ban Ai Khieo, Amphoe Phrom Khiri, Nakhon Si Thammarat.
Drainage Area	25 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	+9.738 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	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 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 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

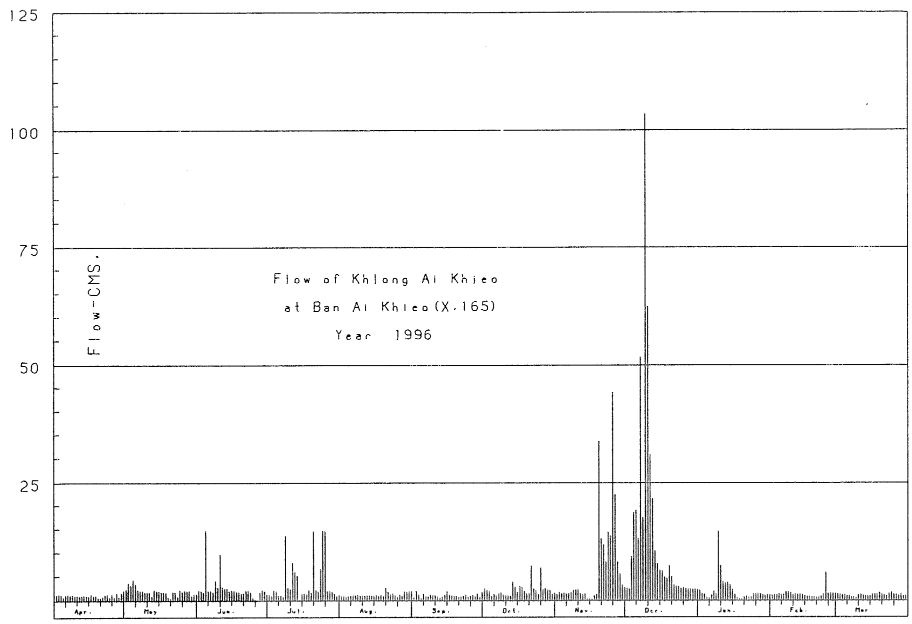
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.98	1.12	1.08	0.97	0.95	0.90	1.13	1.00	1.14	1.10	0.97	1.01	
2	0.98	1.24	1.08	0.95	0.93	1.08	1.11	1.04	1.13	1.00	0.97	0.99	
3	0.98	1.21	1.03	1.08	0.92	0.98	1.06	1.02	1.61	1.00	0.99	0.98	
4	0.90	1.29	1.90	1.07	0.93	0.90	0.94	1.02	2.09	0.90	1.00	0.97	
5	0.98	1.23	1.08	0.95	0.96	1.00	1.00	1.01	2.12	0.90	0.99	0.96	
6	0.98	1.09	1.07	0.94	0.95	0.94	0.95	1.00	1.81	0.98	0.98	0.95	
7	0.97	1.08	1.05	0.93	0.97	0.92	1.02	1.05	3.43	1.10	1.06	0.93	
8	0.97	1.07	1.28	1.84	0.97	0.99	1.03	1.09	2.04	1.00	1.05	0.92	
9	0.96	1.05	1.15	1.16	0.96	0.96	0.99	1.11	4.96	1.90	1.04	0.91	
10	0.95	1.05	1.64	1.11	0.95	0.97	0.97	1.10	3.80	1.50	0.99	0.99	
11	0.95	1.03	1.16	1.54	0.96	0.93	0.95	1.02	2.64	1.26	1.00	0.98	
12	0.95	0.94	1.14	1.41	0.95	0.91	0.96	0.98	2.24	1.25	1.00	0.97	
13	0.96	1.09	1.12	1.36	0.97	0.92	1.27	1.01	1.68	1.25	0.99	0.94	
14	0.96	1.08	1.07	0.85	0.95	0.98	1.17	0.86	1.52	1.22	0.99	0.95	
15	0.93	1.06	1.08	1.01	0.95	1.06	1.04	0.87	1.44	1.11	0.95	0.94	
16	0.98	1.05	1.07	1.00	0.96	0.98	1.20	0.85	1.42	1.00	0.94	0.99	
17	0.95	1.04	1.06	1.00	0.95	0.95	1.16	0.96	1.34	0.90	0.93	1.00	
18	0.95	1.04	1.04	1.09	0.96	0.95	1.08	0.99	1.31	0.88	0.93	0.99	
19	0.91	0.90	1.02	1.02	0.95	0.94	1.00	2.76	1.50	0.85	0.92	1.04	
20	0.90	0.89	1.01	1.90	1.15	0.93	1.02	1.82	1.34	0.93	0.92	0.99	
21	0.92	1.06	1.09	1.09	1.06	0.92	1.49	1.74	1.21	0.93	0.91	0.98	
22	0.98	1.04	1.07	1.07	0.98	0.95	1.14	1.54	1.20	0.92	0.95	0.94	
23	0.98	0.93	1.05	1.46	1.02	0.97	1.08	1.89	1.18	0.91	1.00	1.02	
24	0.92	1.09	0.90	1.90	0.96	0.93	1.00	1.84	1.15	1.01	1.41	1.04	
25	0.98	1.06	0.85	1.90	0.93	0.95	1.47	3.15	1.15	1.01	1.01	1.00	
26	0.90	1.08	0.83	1.07	0.97	0.97	1.12	2.28	1.14	1.01	1.02	0.98	
27	1.03	1.08	1.05	1.06	0.95	0.94	1.15	1.55	1.13	1.01	1.02	0.96	
28	0.91	1.07	1.09	1.05	1.06	1.00	1.10	1.39	1.12	0.97	1.01	1.00	
29	1.03	0.95	1.07	0.99	1.06	0.92	1.10	1.21	1.12	0.97		0.95	
30	1.07	0.98	0.97	0.94	1.06	1.05	0.99	1.17	1.11	0.98		0.95	
31		1.00		0.96	1.06		1.02		1.10	0.97		0.94	
Mean	0.96	1.06	1.10	1.18	0.98	0.96	1.09	1.34	1.72	1.06	1.00	0.97	
Max	1.07	1.29	1.90	1.90	1.15	1.08	1.49	3.15	4.96	1.90	1.41	1.04	4.96
Min	0.90	0.89	0.83	0.85	0.92	0.90	0.94	0.85	1.10	0.85	0.91	0.91	0.83

Annual Max Momentary Gage Height 6.00 M (AD), at 6.00 Hours, on Dec 9, 1996

Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.77 M (AD)

Left Bank Elevation 7.62 M (AD)

Right Bank Elevation 11.16 M (AD), Drainage Area 25 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.34	2.52	2.18	1.26	1.10	0.70	2.60	1.50	2.69	2.35	1.26	1.58	
2	1.34	3.76	2.18	1.10	0.94	2.18	2.44	1.84	2.60	1.50	1.26	1.42	
3	1.34	3.34	1.75	2.18	0.86	1.34	2.01	1.67	9.39	1.50	1.42	1.34	
4	0.70	4.46	14.90	2.10	0.94	0.70	1.02	1.67	18.69	0.70	1.50	1.26	
5	1.34	3.62	2.18	1.10	1.18	1.50	1.50	1.58	19.32	0.70	1.42	1.18	
6	1.34	2.27	2.10	1.02	1.10	1.02	1.10	1.50	13.19	1.34	1.34	1.10	
7	1.26	2.18	1.92	0.94	1.26	0.86	1.67	1.92	51.87	2.35	2.01	0.94	
8	1.26	2.10	4.32	13.76	1.26	1.42	1.75	2.27	17.64	1.50	1.92	0.86	
9	1.18	1.92	2.77	2.86	1.18	1.18	1.42	2.44	103.52	14.90	1.84	0.78	
10	1.10	1.92	9.96	2.44	1.10	1.26	1.26	2.35	62.60	7.60	1.42	1.42	
11	1.10	1.75	2.86	8.24	1.18	0.94	1.10	1.67	31.00	4.04	1.50	1.34	
12	1.10	1.02	2.69	6.16	1.10	0.78	1.18	1.34	21.84	3.90	1.50	1.26	
13	1.18	2.27	2.52	5.44	1.26	0.86	4.18	1.58	10.72	3.90	1.42	1.02	
14	1.18	2.18	2.10	0.35	1.10	1.34	2.94	0.42	7.92	3.48	1.42	1.10	
15	0.94	2.01	2.18	1.58	1.10	2.01	1.84	0.49	6.64	2.44	1.10	1.02	
16	1.34	1.92	2.10	1.50	1.18	1.34	3.20	0.35	6.32	1.50	1.02	1.42	
17	1.10	1.84	2.01	1.50	1.10	1.10	2.86	1.18	5.16	0.70	0.94	1.50	
18	1.10	1.84	1.84	2.27	1.18	1.10	2.18	1.42	4.74	0.56	0.94	1.42	
19	0.78	0.70	1.67	1.67	1.10	1.02	1.50	34.00	7.60	0.35	0.86	1.84	
20	0.70	0.63	1.58	14.90	2.77	0.94	1.67	13.38	5.16	0.94	0.86	1.42	
21	0.86	2.01	2.27	2.27	2.01	0.86	7.44	11.86	3.34	0.94	0.78	1.34	
22	1.34	1.84	2.10	2.10	1.34	1.10	2.69	8.24	3.20	0.86	1.10	1.02	
23	1.34	0.94	1.92	6.96	1.67	1.26	2.18	14.71	3.03	0.78	1.50	1.67	
24	0.86	2.27	0.70	14.90	1.18	0.94	1.50	13.76	2.77	1.58	6.16	1.84	
25	1.34	2.01	0.35	14.90	0.94	1.10	7.12	44.25	2.77	1.58	1.58	1.50	
26	0.70	2.18	0.21	2.10	1.26	1.26	2.52	22.68	2.69	1.58	1.67	1.34	
27	1.75	2.18	1.92	2.01	1.10	1.02	2.77	8.40	2.60	1.58	1.67	1.18	
28	0.78	2.10	2.27	1.92	2.01	1.50	2.35	5.86	2.52	1.26	1.58	1.50	
29	1.75	1.10	2.10	1.42	2.01	0.86	2.35	3.34	2.52	1.26		1.10	
30	2.10	1.34	1.26	1.02	2.01	1.92	1.42	2.94	2.44	1.34		1.10	
31		1.50		1.18	2.01		1.67		2.35	1.26		1.02	
Total	35.54	63.72	80.91	123.15	41.53	35.41	73.43	210.61	438.84	70.27	42.99	39.83	1256.23 CMSDAY
Mean	1.18	2.06	2.70	3.97	1.34	1.18	2.37	7.02	14.16	2.27	1.54	1.28	3.44 CMS
Max	2.10	4.46	14.90	14.90	2.77	2.18	7.44	44.25	103.52	14.90	6.16	1.84	103.52 CMS
Min	0.70	0.63	0.21	0.35	0.86	0.70	1.02	0.35	2.35	0.35	0.78	0.78	0.21 CMS
Runoff	3.071	5.505	6.991	10.640	3.588	3.059	6.344	18.197	37.916	6.071	3.714	3.441	108.538 MCM

Momentary Peak 146.00 CMS, at 6.00 M (AD), at 6.00 Hours, on Dec 9, 1996
Runoff Yield 137.67 Liters/Second/Square KM, Momentary Peak Yield 5840.000 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

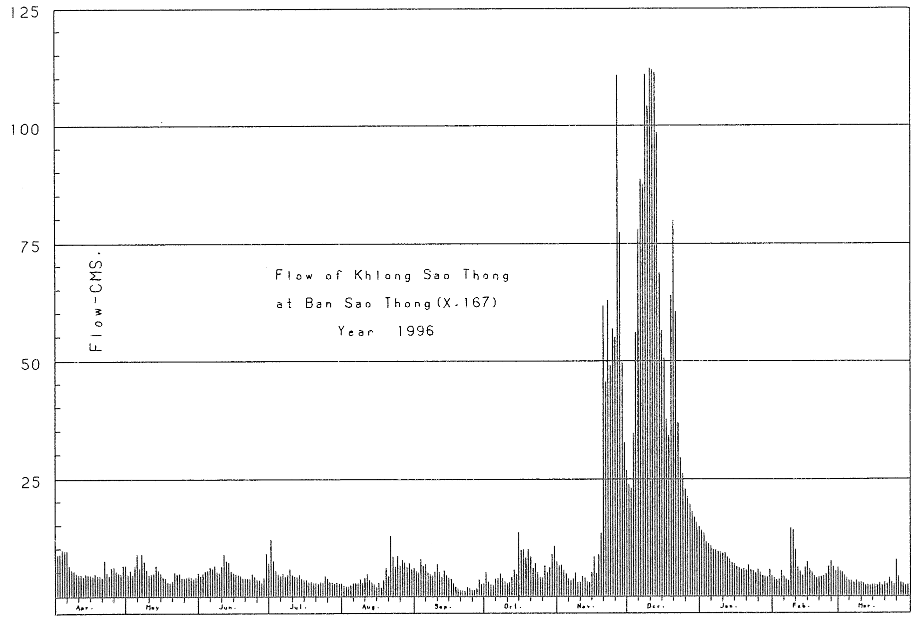
Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat (X.167)

Location	Lat. 08°-16′-44″ N., Long. 99°-54′-31″ E., on right bank at the bridge, Ban Sao Thong, Amphoe Ron Phibun, Nakhon Si Thammarat.
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	On right bank about 4.50 meters from the top staff gage.
Elevation	+4.030 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	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 45 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.97	0.70	0.68	1.15	0.48	0.75	0.73	0.83	1.36	0.96	0.43	0.76	
2	0.97	0.76	0.71	0.89	0.48	0.73	0.58	0.85	1.32	0.94	0.40	0.73	
3	1.03	0.70	0.76	0.77	0.46	0.91	0.50	0.77	1.74	0.85	0.41	0.69	
4	1.01	0.83	0.76	0.70	0.50	0.83	0.51	0.72	2.34	0.84	0.54	0.64	
5	1.02	0.97	0.82	0.68	0.53	0.86	0.62	0.64	2.89	0.81	0.46	0.60	
6	0.83	0.80	0.79	0.71	0.55	0.74	0.63	0.59	3.13	0.78	0.41	0.58	
7	0.78	0.98	0.84	0.67	0.53	0.70	0.72	0.64	3.11	0.77	0.40	0.56	
8	0.75	0.89	0.74	0.69	0.61	0.68	0.63	0.72	3.62	0.76	0.98	0.59	
9	0.72	0.77	0.73	0.80	0.55	0.74	0.58	0.55	3.48	0.75	0.97	0.56	
10	0.69	0.70	0.83	0.70	0.65	0.86	0.55	0.57	3.65	0.74	0.78	0.57	
11	0.69	0.70	0.97	0.66	0.70	0.74	0.55	0.66	3.64	0.74	0.58	0.53	
12	0.66	0.72	0.89	0.67	0.60	0.66	0.66	0.65	3.63	0.70	0.52	0.50	
13	0.71	0.84	0.88	0.69	0.56	0.76	0.79	0.56	3.35	0.67	0.47	0.50	
14	0.68	0.76	0.76	0.63	0.51	0.69	0.70	0.56	2.66	0.64	0.59	0.50	
15	0.68	0.71	0.72	0.60	0.46	0.64	1.22	0.74	2.35	0.62	0.64	0.50	
16	0.67	0.66	0.70	0.60	0.54	0.63	1.03	0.94	2.21	0.60	0.56	0.50	
17	0.70	0.63	0.70	0.57	0.45	0.53	1.03	0.71	1.83	0.57	0.52	0.50	
18	0.68	0.57	0.67	0.56	0.60	0.47	0.93	0.97	1.72	0.56	0.46	0.54	
19	0.67	0.54	0.64	0.55	0.80	0.42	1.04	1.21	2.54	0.56	0.44	0.50	
20	0.65	0.60	0.63	0.54	0.66	0.39	0.95	3.02	2.93	0.55	0.44	0.55	
21	0.90	0.73	0.64	0.54	1.19	0.35	0.80	2.50	2.45	0.61	0.67	0.53	
22	0.72	0.71	0.62	0.55	0.95	0.35	0.87	3.05	1.81	0.55	0.67	0.64	
23	0.68	0.71	0.70	0.56	0.83	0.45	0.73	2.61	1.57	0.53	0.71	0.57	
24	0.80	0.65	0.67	0.67	0.95	0.44	0.66	2.87	1.44	0.51	0.82	0.51	
25	0.82	0.65	0.62	0.64	0.84	0.39	0.64	2.81	1.32	0.56	0.90	0.91	
26	0.74	0.64	0.60	0.57	0.91	0.37	0.83	3.62	1.25	0.51	0.82	0.66	
27	0.72	0.67	0.55	0.55	0.87	0.43	0.74	2.87	1.19	0.47	0.76	0.56	
28	0.70	0.64	0.64	0.54	0.82	0.62	0.81	2.18	1.12	0.45	0.81	0.52	
29	0.84	0.63	0.99	0.55	0.86	0.51	0.98	1.67	1.08	0.45		0.50	
30	0.83	0.65	0.86	0.54	0.79	0.53	1.07	1.47	1.03	0.56		0.50	
31		0.72		0.53	0.80		0.89		1.00	0.46		0.51	
Mean	0.78	0.72	0.74	0.65	0.68	0.61	0.77	1.42	2.22	0.65	0.61	0.57	
Max	1.03	0.98	0.99	1.15	1.19	0.91	1.22	3.62	3.65	0.96	0.98	0.91	3.65
Min	0.65	0.54	0.55	0.53	0.45	0.35	0.50	0.55	1.00	0.45	0.40	0.50	0.35

Annual Max Momentary Gage Height	3.83 M (A.D), at 6.00 Hours, on Dec 8, 1996
Zero Gage at Bottom Elevation	0.00 M (A.D), River Bed -0.98 M (A.D)
Left Bank Elevation	6.97 M (A.D)
Right Bank Elevation	7.00 M (A.D), Drainage Area 268 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.98	4.75	4.50	12.25	2.30	5.38	5.13	6.52	24.00	14.10	3.95	5.50	
2	8.98	5.50	4.87	7.57	2.30	5.13	3.30	6.88	23.00	13.65	3.50	5.13	
3	10.02	4.75	5.50	5.62	2.10	7.93	2.50	5.62	34.86	11.63	3.65	4.63	
4	9.68	6.52	5.50	4.75	2.50	6.52	2.60	5.00	56.10	11.40	5.60	4.00	
5	9.85	8.98	6.35	4.50	2.80	7.05	3.75	4.00	78.10	10.72	4.40	3.50	
6	6.52	6.00	5.88	4.87	3.00	5.25	3.87	3.40	88.60	10.10	3.65	3.30	
7	5.75	9.15	6.70	4.38	2.80	4.75	5.00	4.00	87.70	9.90	3.50	3.10	
8	5.38	7.57	5.25	4.63	3.63	4.50	3.87	5.00	110.95	9.70	14.55	3.40	
9	5.00	5.62	5.13	6.00	3.00	5.25	3.30	3.00	104.35	9.50	14.33	3.10	
10	4.63	4.75	6.52	4.75	4.12	7.05	3.00	3.20	112.38	9.30	10.10	3.20	
11	4.63	4.75	8.98	4.25	4.75	5.25	3.00	4.25	111.90	9.30	6.20	2.80	
12	4.25	5.00	7.57	4.38	3.50	4.25	4.25	4.12	111.43	8.50	5.30	2.50	
13	4.87	6.70	7.40	4.63	3.10	5.50	5.88	3.10	98.50	7.90	4.55	2.50	
14	4.50	5.50	5.50	3.87	2.60	4.63	4.75	3.10	68.90	7.30	6.35	2.50	
15	4.50	4.87	5.00	3.50	2.10	4.00	13.65	5.25	56.50	6.90	7.30	2.50	
16	4.38	4.25	4.75	3.50	2.90	3.87	10.02	8.45	50.90	6.50	5.90	2.50	
17	4.75	3.87	4.75	3.20	2.00	2.80	10.02	4.87	37.73	6.05	5.30	2.50	
18	4.50	3.20	4.38	3.10	3.50	2.20	8.27	8.98	34.23	5.90	4.40	2.90	
19	4.38	2.90	4.00	3.00	6.00	1.70	10.20	13.45	64.10	5.90	4.10	2.50	
20	4.12	3.50	3.87	2.90	4.25	1.45	8.63	61.90	79.77	5.75	4.10	3.00	
21	7.75	5.13	4.00	2.90	13.05	1.25	6.00	45.75	60.50	6.70	4.38	2.80	
22	5.00	4.87	3.75	3.00	8.63	1.25	7.23	62.88	37.08	5.75	4.38	4.00	
23	4.50	4.87	4.75	3.10	6.52	2.00	5.13	49.05	29.68	5.45	4.87	3.20	
24	6.00	4.12	4.38	4.38	8.63	1.90	4.25	57.02	26.10	5.15	6.35	2.60	
25	6.35	4.12	3.75	4.00	6.70	1.45	4.00	55.08	23.00	5.90	7.75	7.93	
26	5.25	4.00	3.50	3.20	7.93	1.35	6.52	110.95	21.25	5.15	6.35	4.25	
27	5.00	4.38	3.00	3.00	7.23	1.80	5.25	77.30	19.75	4.55	5.50	3.10	
28	4.75	4.00	4.00	2.90	6.35	3.75	6.17	49.80	18.00	4.25	6.17	2.70	
29	6.70	3.87	9.32	3.00	7.05	2.60	9.15	32.67	17.00	4.25		2.50	
30	6.52	4.12	7.05	2.90	5.88	2.80	10.73	26.93	15.75	5.90		2.50	
31		5.00		2.80	6.00		7.57		15.00	4.40		2.60	
Total	177.49	156.61	159.90	130.83	147.22	114.61	186.99	731.52	1717.11	237.45	166.48	103.24	4029.45 CMSDAY
Mean	5.92	5.05	5.33	4.22	4.75	3.82	6.03	24.38	55.39	7.66	5.95	3.33	11.04 CMS
Max	10.02	9.15	9.32	12.25	13.05	7.93	13.65	110.95	112.38	14.10	14.55	7.93	112.38 CMS
Min	4.12	2.90	3.00	2.80	2.00	1.25	2.50	3.00	15.00	4.25	3.50	2.50	1.25 CMS
Runoff	15.335	13.531	13.815	11.304	12.720	9.902	16.156	63.203	148.358	20.516	14.384	8.920	348.145 MCM

Momentary Peak 120.92 CMS, at 3.83 M (A.D), at 6.00 Hours, on Dec 8, 1996
Runoff Yield 41.19 Liters/Second/Square KM, Momentary Peak Yield 451.194 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

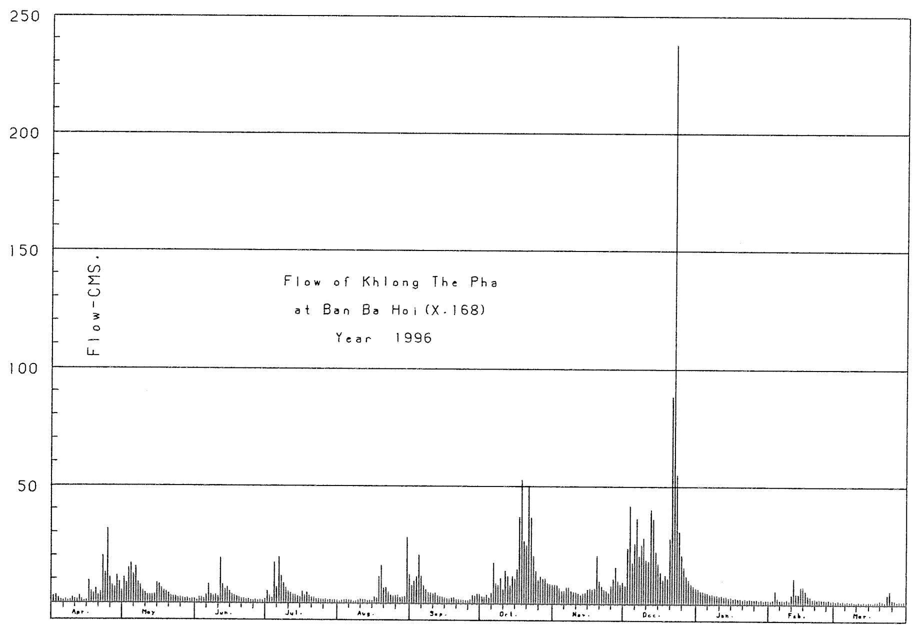
Khlong The Pha at Ban Ba Hoi, Yala (X.168)

Location	Lat.06°-25′-40″ N., Long. 100°-55′-41″ E., on right bank at the bridge near Wat Bahoi, Tambon Bahoi, King Amphoe Ka Bang, Yala.
Drainage Area	315 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.38 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 5 meters from the station office.
Elevation	+8.991 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	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 61 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	1.14	0.66	0.91	0.63	1.02	0.78	1.03	1.02	0.95	0.67	0.65	
2	0.80	1.06	0.73	0.78	0.63	1.09	0.76	1.03	1.53	0.92	0.67	0.65	
3	0.71	1.28	0.75	0.74	0.68	1.17	0.81	0.97	1.96	0.90	0.93	0.65	
4	0.66	1.34	0.70	1.36	0.66	1.46	0.75	0.92	1.37	0.89	0.74	0.64	
5	0.64	1.20	0.81	0.97	0.68	1.17	0.87	0.91	1.58	0.86	0.69	0.63	
6	0.66	1.31	1.04	1.43	0.64	1.02	1.37	0.99	1.84	0.84	0.68	0.63	
7	0.63	1.07	0.81	1.18	0.62	0.93	1.05	0.98	1.45	0.83	0.68	0.63	
8	0.62	1.00	0.79	1.06	0.61	0.88	1.02	0.92	1.57	0.82	0.70	0.63	
9	0.74	0.91	0.80	0.96	0.68	0.86	1.15	0.88	1.64	0.81	0.68	0.62	
10	0.66	0.84	0.77	0.90	0.68	0.85	0.95	0.89	1.40	0.80	0.83	0.61	
11	0.65	0.81	1.42	0.85	0.70	0.86	1.25	0.85	1.39	0.79	1.14	0.61	
12	0.78	0.80	1.02	0.82	0.67	0.80	1.18	0.82	1.92	0.78	0.84	0.61	
13	0.66	0.79	0.94	0.80	0.65	0.77	1.01	0.85	1.84	0.77	0.85	0.61	
14	0.62	0.82	0.97	0.77	0.63	0.77	1.17	0.88	1.50	0.76	1.00	0.61	
15	0.61	1.05	0.89	0.76	0.65	0.74	1.14	0.94	1.35	0.75	0.99	0.61	
16	1.10	1.04	0.83	0.90	0.75	0.73	1.27	0.97	1.23	0.74	0.91	0.60	
17	0.88	0.95	0.78	0.79	0.74	0.71	1.85	0.94	1.13	0.74	0.81	0.60	
18	0.84	0.91	0.77	0.88	1.16	0.75	2.18	0.97	1.19	0.73	0.77	0.60	
19	0.95	0.87	0.74	0.78	1.33	0.74	1.61	1.45	1.15	0.72	0.73	0.64	
20	0.79	0.83	0.72	0.75	0.96	0.71	1.56	1.10	1.63	0.71	0.72	0.66	
21	0.86	0.79	0.71	0.74	0.98	0.69	2.12	1.01	2.76	0.72	0.71	0.63	
22	1.44	0.77	0.70	0.71	0.88	0.68	1.85	0.95	4.48	0.71	0.71	0.63	
23	1.21	0.75	0.69	0.70	0.81	0.67	1.45	0.91	2.22	0.71	0.71	0.84	
24	1.73	0.74	0.67	0.70	0.78	0.67	1.25	0.88	1.71	0.71	0.69	0.91	
25	1.15	0.73	0.66	0.69	0.81	0.67	1.12	1.01	1.46	0.71	0.69	0.71	
26	1.01	0.72	0.66	0.68	0.80	0.69	1.17	1.13	1.30	0.70	0.69	0.66	
27	0.96	0.71	0.65	0.67	0.75	0.81	1.14	1.31	1.18	0.69	0.67	0.64	
28	1.17	0.71	0.65	0.66	0.75	0.78	1.14	1.11	1.11	0.69	0.66	0.63	
29	1.08	0.69	0.65	0.67	0.78	0.85	1.07	1.03	1.05	0.68		0.64	
30	0.90	0.68	0.69	0.65	1.64	0.83	1.04	1.08	1.00	0.67		0.63	
31		0.68		0.64	1.19		1.04		0.98	0.67		0.61	
Mean	0.88	0.90	0.79	0.84	0.80	0.85	1.23	0.99	1.58	0.77	0.77	0.65	
Max	1.73	1.34	1.42	1.43	1.64	1.46	2.18	1.45	4.48	0.95	1.14	0.91	4.48
Min	0.61	0.68	0.65	0.64	0.61	0.67	0.75	0.82	0.98	0.67	0.66	0.60	0.60

Annual Max Momentary Gage Height 5.47 M (A.D), at 11.00 Hours, on Dec 22, 1996
Zero Gage at Bottom Elevation 0.38 M (A.D), River Bed 0.15 M (A.D)
Left Bank Elevation 9.53 M (A.D)
Right Bank Elevation 9.27 M (A.D), Drainage Area 315 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.95	11.12	1.70	5.72	1.40	8.16	3.46	8.39	8.16	6.60	1.80	1.60		
2	3.80	9.08	2.61	3.46	1.40	9.77	3.12	8.39	24.00	5.94	1.80	1.60		
3	2.27	15.20	2.95	2.78	1.90	11.96	3.97	7.04	42.32	5.50	6.16	1.60		
4	1.70	17.08	2.10	17.72	1.70	21.28	2.95	5.94	18.04	5.33	2.78	1.50		
5	1.50	12.80	3.97	7.04	1.90	11.96	4.99	5.72	26.00	4.82	2.00	1.40		
6	1.70	16.12	8.62	20.14	1.50	8.16	18.04	7.48	36.80	4.48	1.90	1.40		
7	1.40	9.31	3.97	12.24	1.30	6.16	8.85	7.26	20.90	4.31	1.90	1.40		
8	1.30	7.70	3.63	9.08	1.20	5.16	8.16	5.94	25.60	4.14	2.10	1.40		
9	2.78	5.72	3.80	6.82	1.90	4.82	11.40	5.16	28.44	3.97	1.90	1.30		
10	1.70	4.48	3.29	5.50	1.90	4.65	6.60	5.33	19.00	3.80	4.31	1.20		
11	1.60	3.97	19.76	4.65	2.10	4.82	14.30	4.65	18.68	3.63	11.12	1.20		
12	3.46	3.80	8.16	4.14	1.80	3.80	12.24	4.14	40.44	3.46	4.48	1.20		
13	1.70	3.63	6.38	3.80	1.60	3.29	7.93	4.65	36.80	3.29	4.65	1.20		
14	1.30	4.14	7.04	3.29	1.40	3.29	11.96	5.16	22.80	3.12	7.70	1.20		
15	1.20	8.85	5.33	3.12	1.60	2.78	11.12	6.38	17.40	2.95	7.48	1.20		
16	10.00	8.62	4.31	5.50	2.95	2.61	14.90	7.04	13.70	2.78	5.72	1.10		
17	5.16	6.60	3.46	3.63	2.78	2.27	37.25	6.38	10.84	2.78	3.97	1.10		
18	4.48	5.72	3.29	5.16	11.68	2.95	53.44	7.04	12.52	2.61	3.29	1.10		
19	6.60	4.99	2.78	3.46	16.76	2.78	27.21	20.90	11.40	2.44	2.61	1.50		
20	3.63	4.31	2.44	2.95	6.82	2.27	25.20	10.00	28.03	2.27	2.44	1.70		
21	4.82	3.63	2.27	2.78	7.26	2.00	50.26	7.93	88.20	2.44	2.27	1.40		
22	20.52	3.29	2.10	2.27	5.16	1.90	37.25	6.60	238.00	2.27	2.27	1.40		
23	13.10	2.95	2.00	2.10	3.97	1.80	20.90	5.72	55.60	2.27	2.27	4.48		
24	32.13	2.78	1.80	2.10	3.46	1.80	14.30	5.16	31.31	2.27	2.00	5.72		
25	11.40	2.61	1.70	2.00	3.97	1.80	10.56	7.93	21.28	2.27	2.00	2.27		
26	7.93	2.44	1.70	1.90	3.80	2.00	11.96	10.84	15.80	2.10	2.00	1.70		
27	6.82	2.27	1.60	1.80	2.95	3.97	11.12	16.12	12.24	2.00	1.80	1.50		
28	11.96	2.27	1.60	1.70	2.95	3.46	11.12	10.28	10.28	2.00	1.70	1.40		
29	9.54	2.00	1.60	1.80	3.46	4.65	9.31	8.39	8.85	1.90		1.50		
30	5.50	1.90	2.00	1.60	28.44	4.31	8.62	9.54	7.70	1.80		1.40		
31		1.90		1.50	12.52		8.62		7.26	1.80		1.20		
Total	183.95	191.28	117.96	151.75	143.53	150.63	481.11	231.50	958.39	101.34	96.42	50.87	2858.73	CMSDAY
Mean	6.13	6.17	3.93	4.90	4.63	5.02	15.52	7.72	30.92	3.27	3.44	1.64	7.83	CMS
Max	32.13	17.08	19.76	20.14	28.44	21.28	53.44	20.90	238.00	6.60	11.12	5.72	238.00	CMS
Min	1.20	1.90	1.60	1.50	1.20	1.80	2.95	4.14	7.26	1.80	1.70	1.10	1.10	CMS
Runoff	15.893	16.527	10.192	13.111	12.401	13.014	41.568	20.002	82.805	8.756	8.331	4.395	246.994	MCM

Momentary Peak 338.85 CMS, at 5.47 M (A.D), at 11.00 Hours, on Dec 22, 1996

Runoff Yield 24.86 Liters/Second/Square KM, Momentary Peak Yield 1075.714 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENNINSULA EAST COAST

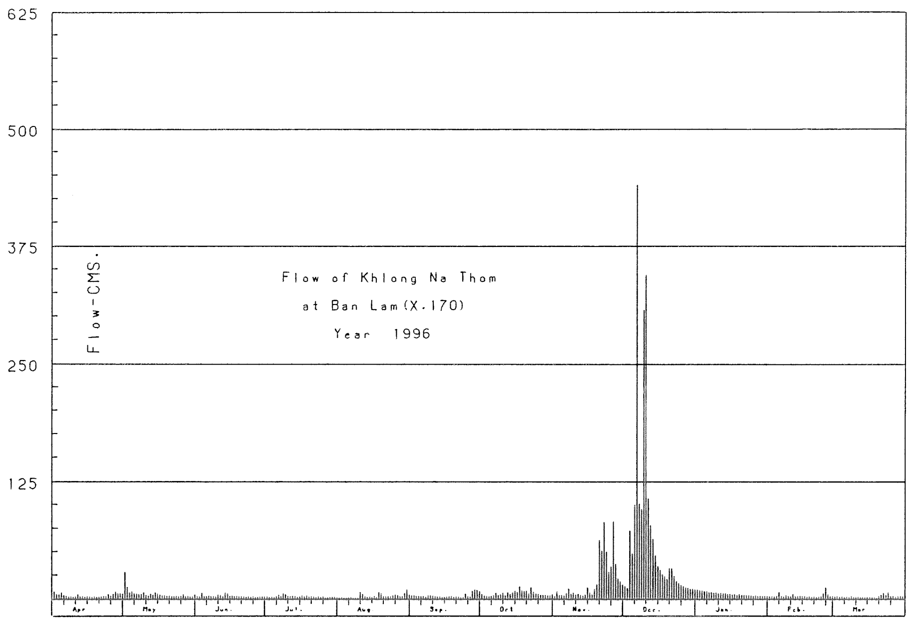
Khlong Na Thom at Ban Lam, Phattalung (X.170)

Location	Lat. 07°-33′-22″ N., Long. 99°-59′-31″ E., on left bank at the bridge, Ban Lam, Amphoe Muang, Phatthalung.
Drainage Area	269 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 21 meters from the top staff gage.
Elevation	+6.597 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 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 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.93	1.46	0.76	0.75	0.70	0.81	0.86	0.80	1.09	0.99	0.78	0.77	
2	0.84	1.06	0.75	0.73	0.69	0.83	0.82	0.94	1.05	0.98	0.77	0.76	
3	0.85	0.91	0.89	0.72	0.70	0.79	0.80	0.83	2.11	0.96	0.78	0.75	
4	0.90	0.94	0.80	0.72	0.69	0.80	0.79	0.82	1.81	0.95	0.78	0.74	
5	0.83	0.87	0.79	0.78	0.69	0.78	0.80	0.81	2.39	0.94	0.92	0.74	
6	0.78	0.85	0.80	0.83	0.69	0.76	0.82	0.88	4.98	0.92	0.79	0.73	
7	0.76	0.85	0.78	0.79	0.68	0.75	0.90	1.03	2.40	0.91	0.77	0.73	
8	0.75	0.84	0.76	0.87	0.68	0.81	0.81	0.87	2.35	0.91	0.83	0.77	
9	0.75	0.91	0.76	0.86	0.69	0.82	0.85	0.89	4.01	0.90	0.80	0.75	
10	0.74	0.82	0.84	0.78	0.91	0.78	0.89	0.83	4.28	0.89	0.79	0.73	
11	0.86	0.81	0.83	0.76	0.87	0.78	0.82	0.87	2.45	0.89	0.86	0.72	
12	0.77	0.87	0.79	0.81	0.76	0.77	0.91	0.83	2.17	0.88	0.79	0.72	
13	0.75	0.82	0.90	0.78	0.74	0.75	0.84	0.81	2.01	0.87	0.77	0.71	
14	0.75	0.91	0.89	0.75	0.73	0.74	0.91	0.83	1.77	0.87	0.81	0.72	
15	0.74	0.85	0.81	0.75	0.71	0.73	0.95	1.06	1.60	0.86	0.77	0.71	
16	0.73	0.83	0.79	0.80	0.77	0.73	0.92	0.89	1.50	0.85	0.77	0.71	
17	0.73	0.81	0.78	0.76	0.73	0.77	1.10	0.85	1.41	0.85	0.76	0.72	
18	0.74	0.80	0.78	0.81	0.92	0.79	0.96	1.01	1.35	0.84	0.75	0.71	
19	0.74	0.80	0.77	0.75	0.87	0.74	0.95	1.16	1.30	0.85	0.75	0.70	
20	0.73	0.79	0.76	0.74	0.77	0.73	0.95	1.99	1.55	0.84	0.74	0.76	
21	0.72	0.79	0.75	0.73	0.78	0.72	0.87	1.84	1.55	0.83	0.74	0.84	
22	0.80	0.78	0.75	0.73	0.77	0.71	1.06	2.21	1.36	0.83	0.73	0.88	
23	0.75	0.77	0.74	0.73	0.75	0.71	0.91	1.83	1.25	0.82	0.78	0.84	
24	0.86	0.77	0.74	0.73	0.82	0.87	0.87	1.45	1.19	0.82	0.87	0.91	
25	0.78	0.76	0.73	0.72	0.83	0.75	0.85	1.59	1.14	0.81	1.06	0.79	
26	0.85	0.84	0.73	0.71	0.82	0.76	0.84	2.21	1.09	0.81	0.85	0.77	
27	0.93	0.77	0.73	0.71	0.78	0.96	0.84	1.63	1.06	0.80	0.80	0.75	
28	0.86	0.76	0.72	0.70	0.76	0.98	0.82	1.31	1.04	0.80	0.78	0.77	
29	0.88	0.75	0.76	0.74	0.89	0.98	0.82	1.23	1.02	0.79		0.80	
30	0.85	0.75	0.73	0.71	0.99	0.93	0.81	1.15	1.01	0.79		0.75	
31		0.85		0.70	0.85		0.85		1.00	0.78		0.74	
Mean	0.80	0.85	0.78	0.76	0.78	0.79	0.88	1.18	1.82	0.87	0.80	0.76	
Max	0.93	1.46	0.90	0.87	0.99	0.98	1.10	2.21	4.98	0.99	1.06	0.91	4.98
Min	0.72	0.75	0.72	0.70	0.68	0.71	0.79	0.80	1.00	0.78	0.73	0.70	0.68

Annual Max Momentary Gage Height	5.95 M (AD), at 11.00 Hours, on Dec 6, 1996
Zero Gage at Bottom Elevation	0.00 M (AD), River Bed -1.06 M (AD)
Left Bank Elevation	7.96 M (AD)
Right Bank Elevation	7.35 M (AD), Drainage Area 269 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.55	29.70	3.40	3.25	2.50	4.35	6.10	4.00	14.15	10.65	3.70	3.55		
2	5.40	13.10	3.25	2.95	2.35	5.05	4.70	8.90	12.75	10.30	3.55	3.40		
3	5.75	7.85	7.15	2.80	2.50	3.85	4.00	5.05	73.90	9.60	3.70	3.25		
4	7.50	8.90	4.00	2.80	2.35	4.00	3.85	4.70	49.75	9.25	3.70	3.10		
5	5.05	6.45	3.85	3.70	2.35	3.70	4.00	4.35	101.00	8.90	8.20	3.10		
6	3.70	5.75	4.00	5.05	2.35	3.40	4.70	6.80	441.20	8.20	3.85	2.95		
7	3.40	5.75	3.70	3.85	2.20	3.25	7.50	12.05	102.00	7.85	3.55	2.95		
8	3.25	5.40	3.40	6.45	2.20	4.35	4.35	6.45	97.00	7.85	5.05	3.55		
9	3.25	7.85	3.40	6.10	2.35	4.70	5.75	7.15	308.35	7.50	4.00	3.25		
10	3.10	4.70	5.40	3.70	7.85	3.70	7.15	5.05	344.80	7.15	3.85	2.95		
11	6.10	4.35	5.05	3.40	6.45	3.70	4.70	6.45	108.25	7.15	6.10	2.80		
12	3.55	6.45	3.85	4.35	3.40	3.55	7.85	5.05	79.30	6.80	3.85	2.80		
13	3.25	4.70	7.50	3.70	3.10	3.25	5.40	4.35	64.90	6.45	3.55	2.65		
14	3.25	7.85	7.15	3.25	2.95	3.10	7.85	5.05	47.05	6.45	4.35	2.80		
15	3.10	5.75	4.35	3.25	2.65	2.95	9.25	13.10	36.00	6.10	3.55	2.65		
16	2.95	5.05	3.85	4.00	3.55	2.95	8.20	7.15	31.50	5.75	3.55	2.65		
17	2.95	4.35	3.70	3.40	2.95	3.55	14.50	5.75	27.45	5.75	3.40	2.80		
18	3.10	4.00	3.70	4.35	8.20	3.85	9.60	11.35	24.75	5.40	3.25	2.65		
19	3.10	4.00	3.55	3.25	6.45	3.10	9.25	16.60	22.50	5.75	3.25	2.50		
20	2.95	3.85	3.40	3.10	3.55	2.95	9.25	63.25	33.75	5.40	3.10	3.40		
21	2.80	3.85	3.25	2.95	3.70	2.80	6.45	52.00	33.75	5.05	3.10	5.40		
22	4.00	3.70	3.25	2.95	3.55	2.65	13.10	83.00	25.20	5.05	2.95	6.80		
23	3.25	3.55	3.10	2.95	3.25	2.65	7.85	51.25	20.25	4.70	3.70	5.40		
24	6.10	3.55	3.10	2.95	4.70	6.45	6.45	29.25	17.65	4.70	6.45	7.85		
25	3.70	3.40	2.95	2.80	5.05	3.25	5.75	35.55	15.90	4.35	13.10	3.85		
26	5.75	5.40	2.95	2.65	4.70	3.40	5.40	83.00	14.15	4.35	5.75	3.55		
27	8.55	3.55	2.95	2.65	3.70	9.60	5.40	37.95	13.10	4.00	4.00	3.25		
28	6.10	3.40	2.80	2.50	3.40	10.30	4.70	22.95	12.40	4.00	3.70	3.55		
29	6.80	3.25	3.40	3.10	7.15	10.30	4.70	19.35	11.70	3.85		4.00		
30	5.75	3.25	2.95	2.65	10.65	8.55	4.35	16.25	11.35	3.85		3.25		
31		5.75		2.50	5.75		5.75		11.00	3.70		3.10		
Total	136.05	188.45	118.35	107.35	127.85	133.25	207.85	633.15	2206.80	195.85	123.85	109.75	4288.55	CMSDAY
Mean	4.53	6.08	3.94	3.46	4.12	4.44	6.70	21.11	71.19	6.32	4.42	3.54	11.75	CMS
Max	8.55	29.70	7.50	6.45	10.65	10.30	14.50	83.00	441.20	10.65	13.10	7.85	441.20	CMS
Min	2.80	3.25	2.80	2.50	2.20	2.65	3.85	4.00	11.00	3.70	2.95	2.50	2.20	CMS
Runoff	11.755	16.282	10.225	9.275	11.046	11.513	17.958	54.704	190.668	16.921	10.701	9.482	370.531	MCM

Momentary Peak 582.50 CMS, at 5.95 M (AD), at 11.00 Hours, on Dec 6, 1996

Runoff Yield 43.68 Liters/Second/Square KM, Momentary Peak Yield 2165.427 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

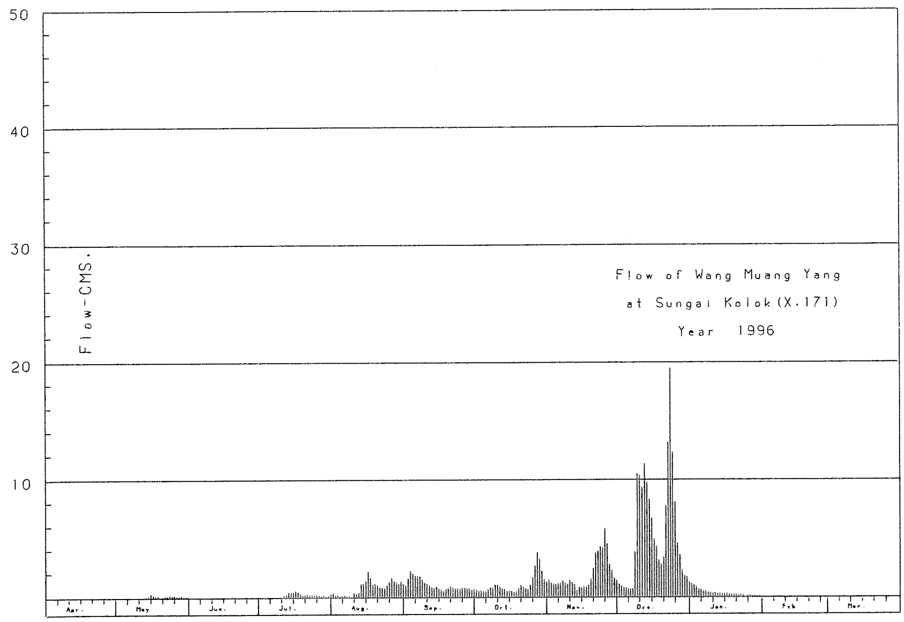
Khlong Wang Muang Yang at Ban Pa Ye, Narathiwat (X.171)

Location	Lat. 06°05'28" N., Long. 101°57'24" E., on left bank at the bridge, Ban Pa Ye, Amphoe Sungai Kolok, Narathiwat.
Drainage Area	839 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+6.031 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bnak about 12.00 meters from the top staff gage.
Elevation	+8.492 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	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.17	5.92	6.30	6.24	6.43	6.58	6.51	6.64	6.59	6.59	6.30	6.27	
2	6.17	5.92	6.28	6.23	6.39	6.66	6.49	6.61	6.55	6.58	6.30	6.26	
3	6.16	5.92	6.27	6.23	6.37	6.73	6.49	6.59	6.54	6.55	6.29	6.24	
4	6.16	5.93	6.26	6.26	6.36	6.71	6.48	6.59	6.53	6.52	6.28	6.24	
5	6.15	5.93	6.25	6.24	6.36	6.69	6.48	6.60	6.52	6.50	6.29	6.23	
6	6.15	5.93	6.25	6.23	6.35	6.68	6.51	6.60	6.51	6.49	6.29	6.23	
7	6.14	6.08	6.25	6.24	6.35	6.68	6.54	6.63	6.52	6.47	6.28	6.22	
8	6.14	6.11	6.24	6.26	6.34	6.64	6.53	6.60	6.89	6.45	6.28	6.23	
9	6.14	6.14	6.24	6.26	6.34	6.61	6.58	6.59	7.29	6.44	6.27	6.23	
10	6.13	6.13	6.23	6.28	6.43	6.59	6.57	6.63	7.28	6.43	6.26	6.22	
11	6.13	6.16	6.23	6.36	6.43	6.57	6.55	6.61	7.23	6.43	6.25	6.22	
12	6.12	6.21	6.22	6.41	6.44	6.55	6.53	6.59	7.33	6.42	6.24	6.22	
13	6.11	6.30	6.21	6.45	6.60	6.53	6.51	6.49	7.25	6.42	6.24	6.21	
14	6.11	6.36	6.26	6.46	6.59	6.56	6.49	6.55	7.18	6.41	6.24	6.21	
15	6.10	6.43	6.25	6.47	6.63	6.53	6.48	6.54	7.10	6.41	6.24	6.21	
16	6.10	6.37	6.23	6.48	6.73	6.50	6.47	6.55	6.98	6.42	6.24	6.20	
17	6.09	6.35	6.22	6.47	6.66	6.48	6.46	6.55	6.93	6.41	6.23	6.19	
18	6.08	6.34	6.22	6.40	6.59	6.51	6.46	6.57	6.82	6.40	6.23	6.18	
19	6.08	6.31	6.22	6.38	6.59	6.53	6.53	6.65	6.79	6.40	6.22	6.18	
20	6.07	6.30	6.21	6.38	6.57	6.55	6.57	6.75	6.85	6.39	6.22	6.17	
21	6.07	6.33	6.20	6.40	6.55	6.54	6.55	6.88	7.15	6.39	6.22	6.17	
22	6.07	6.36	6.21	6.39	6.54	6.53	6.53	6.90	7.41	6.38	6.22	6.17	
23	6.06	6.37	6.23	6.38	6.53	6.52	6.51	6.93	7.63	6.38	6.24	6.16	
24	6.06	6.37	6.27	6.38	6.58	6.52	6.58	6.92	7.37	6.36	6.28	6.16	
25	6.05	6.36	6.26	6.37	6.61	6.53	6.67	7.04	7.17	6.37	6.28	6.16	
26	6.05	6.36	6.25	6.37	6.66	6.54	6.77	6.95	6.95	6.35	6.29	6.16	
27	6.00	6.35	6.23	6.36	6.63	6.53	6.89	6.79	6.87	6.34	6.28	6.16	
28	5.98	6.35	6.26	6.35	6.61	6.52	6.83	6.73	6.74	6.34	6.28	6.17	
29	5.93	6.34	6.26	6.34	6.60	6.51	6.73	6.66	6.69	6.33		6.18	
30	5.91	6.32	6.25	6.34	6.62	6.51	6.64	6.63	6.67	6.32		6.16	
31		6.32		6.43	6.59		6.62		6.62	6.31		6.16	
Mean	6.09	6.22	6.24	6.35	6.52	6.57	6.57	6.68	6.93	6.42	6.26	6.20	
Max	6.17	6.43	6.30	6.48	6.73	6.73	6.89	7.04	7.63	6.59	6.30	6.27	7.63
Min	5.91	5.92	6.20	6.23	6.34	6.48	6.46	6.49	6.51	6.31	6.22	6.16	5.91

Annual Max Momentary Gage Height 7.68 M (MSL), at 9.00 Hours, on Dec 23, 1996
Zero Gage at Bottom Elevation 6.03 M (MSL), River Bed 5.91 M (MSL)
Left Bank Elevation 7.89 M (MSL)
Right Bank Elevation 7.78 M (MSL), Drainage Area 839 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.07	0.03	0.40	1.11	0.71	1.54	1.17	1.17	0.07	0.05	
2	0.00	0.00	0.06	0.02	0.27	1.69	0.61	1.31	0.94	1.11	0.07	0.04	
3	0.00	0.00	0.05	0.02	0.22	2.30	0.61	1.17	0.88	0.94	0.06	0.03	
4	0.00	0.00	0.04	0.04	0.20	2.10	0.58	1.17	0.82	0.77	0.06	0.03	
5	0.00	0.00	0.04	0.03	0.20	1.92	0.58	1.23	0.77	0.65	0.06	0.02	
6	0.00	0.00	0.04	0.02	0.18	1.85	0.71	1.23	0.71	0.61	0.06	0.02	
7	0.00	0.00	0.04	0.03	0.18	1.85	0.88	1.46	0.77	0.54	0.06	0.01	
8	0.00	0.00	0.03	0.04	0.16	1.54	0.82	1.23	3.90	0.47	0.06	0.02	
9	0.00	0.00	0.03	0.04	0.16	1.31	1.11	1.17	10.60	0.43	0.05	0.02	
10	0.00	0.00	0.02	0.06	0.40	1.17	1.06	1.46	10.40	0.40	0.04	0.01	
11	0.00	0.00	0.02	0.20	0.40	1.06	0.94	1.31	9.40	0.40	0.04	0.01	
12	0.00	0.01	0.01	0.33	0.43	0.94	0.82	1.17	11.46	0.36	0.03	0.01	
13	0.00	0.07	0.01	0.47	1.23	0.82	0.71	0.61	9.80	0.36	0.03	0.01	
14	0.00	0.20	0.04	0.51	1.17	1.00	0.61	0.94	8.40	0.33	0.03	0.01	
15	0.00	0.40	0.04	0.54	1.46	0.82	0.58	0.88	6.80	0.33	0.03	0.01	
16	0.00	0.22	0.02	0.58	2.30	0.65	0.54	0.94	5.04	0.36	0.03	0.00	
17	0.00	0.18	0.01	0.54	1.69	0.58	0.51	0.94	4.39	0.33	0.02	0.00	
18	0.00	0.16	0.01	0.29	1.17	0.71	0.51	1.06	3.20	0.29	0.02	0.00	
19	0.00	0.09	0.01	0.25	1.17	0.82	0.82	1.62	2.90	0.29	0.01	0.00	
20	0.00	0.07	0.01	0.25	1.06	0.94	1.06	2.50	3.50	0.27	0.01	0.00	
21	0.00	0.14	0.00	0.29	0.94	0.88	0.94	3.80	7.80	0.27	0.01	0.00	
22	0.00	0.20	0.01	0.27	0.88	0.82	0.82	4.00	13.26	0.25	0.01	0.00	
23	0.00	0.22	0.02	0.25	0.82	0.77	0.71	4.39	19.55	0.25	0.03	0.00	
24	0.00	0.22	0.05	0.25	1.11	0.77	1.11	4.26	12.34	0.20	0.06	0.00	
25	0.00	0.20	0.04	0.22	1.31	0.82	1.77	5.90	8.20	0.22	0.06	0.00	
26	0.00	0.20	0.04	0.22	1.69	0.88	2.70	4.65	4.65	0.18	0.06	0.00	
27	0.00	0.18	0.02	0.20	1.46	0.82	3.90	2.90	3.70	0.16	0.06	0.00	
28	0.00	0.18	0.04	0.18	1.31	0.77	3.30	2.30	2.40	0.16	0.06	0.00	
29	0.00	0.16	0.04	0.16	1.23	0.71	2.30	1.69	1.92	0.14		0.00	
30	0.00	0.11	0.04	0.16	1.38	0.71	1.54	1.46	1.77	0.11		0.00	
31		0.11		0.40	1.17		1.38		1.38	0.09		0.00	
Total	0.00	3.32	0.90	6.89	27.75	33.13	35.24	60.29	172.82	12.44	1.19	0.30	354.27 CMSDAY
Mean	0.00	0.11	0.03	0.22	0.90	1.10	1.14	2.01	5.57	0.40	0.04	0.01	0.97 CMS
Max	0.00	0.40	0.07	0.58	2.30	2.30	3.90	5.90	19.55	1.17	0.07	0.05	19.55 CMS
Min	0.00	0.00	0.00	0.02	0.16	0.58	0.51	0.61	0.71	0.09	0.01	0.00	0.00 CMS
Runoff	0.000	0.287	0.078	0.595	2.398	2.862	3.045	5.209	14.932	1.075	0.103	0.026	30.609 MCM

Momentary Peak 21.30 CMS, at 7.68 M (MSL), at 9.00 Hours, on Dec 23, 1996

Runoff Yield 1.16 Liters/Second/Square KM, Momentary Peak Yield 25.387 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

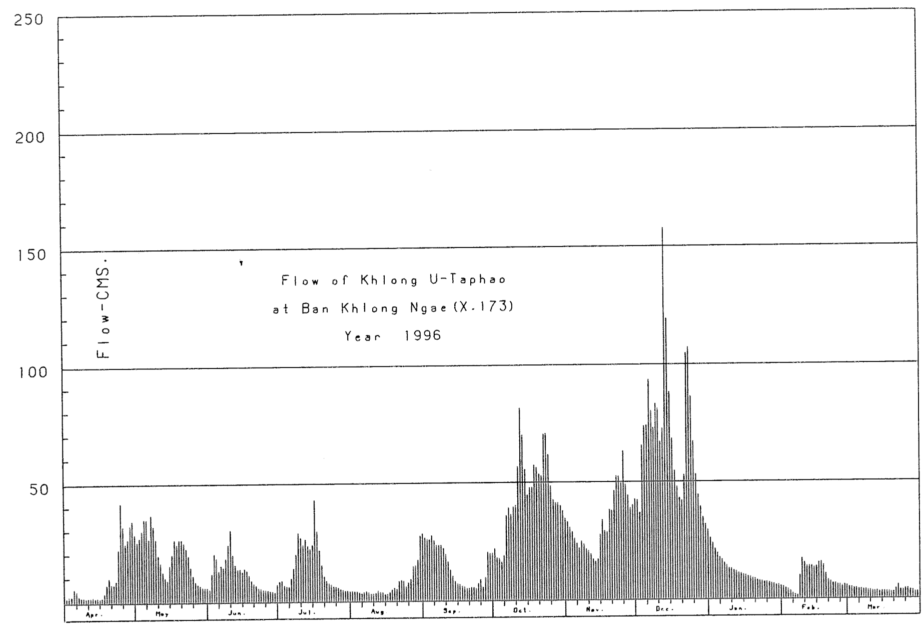
Khlong U Taphao at Ban Khlong Ngae, Songkhla (X.173)

Location	Lat. 06°-47′-44″ N., Long. 100°-26′-46″ E., on right bank at the bridge on Hat Yai- Sadao Highway, Ban Pang La, Amphoe Hat Yai, Songkhla.
Drainage Area	982 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 1.13 meters from the top staff gage.
Elevation	+5.932 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	1989 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 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 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	3.58	1.19	1.68	0.97	3.70	3.24	4.21	4.61	3.65	1.15	1.14	
2	0.66	3.71	2.10	1.69	0.98	3.63	2.83	4.02	4.41	3.41	1.06	1.06	
3	0.66	3.98	3.07	1.44	0.94	3.63	2.80	3.89	5.11	3.19	0.95	1.03	
4	1.24	4.31	2.86	1.32	0.89	3.77	2.66	3.64	5.23	2.99	0.83	1.00	
5	1.06	4.29	2.28	1.35	0.84	3.60	2.94	3.45	5.24	2.81	0.64	0.98	
6	0.70	3.70	2.56	1.86	0.91	3.38	4.37	3.21	5.48	2.69	0.45	0.94	
7	0.61	4.41	2.43	2.37	1.01	3.41	4.51	3.51	5.32	2.57	0.43	0.92	
8	0.55	4.11	2.87	3.04	0.87	3.38	4.38	3.41	5.22	2.40	1.85	0.90	
9	0.51	3.66	3.43	3.89	0.81	3.27	4.52	3.20	5.36	2.28	2.73	0.87	
10	0.50	3.01	4.00	3.74	0.77	2.99	4.54	3.10	5.33	2.23	2.57	0.84	
11	0.57	2.66	3.01	3.41	0.87	2.66	4.96	2.97	5.13	2.17	2.35	0.82	
12	0.60	2.23	2.58	3.65	1.03	2.27	5.34	2.77	5.22	2.11	2.36	0.80	
13	0.52	1.88	2.36	3.41	0.94	1.90	5.18	2.64	5.99	2.02	2.39	0.78	
14	0.50	1.75	2.35	3.25	0.88	1.63	4.94	2.77	5.75	1.97	2.28	0.75	
15	0.49	2.55	2.23	3.44	0.79	1.50	4.69	3.80	5.42	1.92	2.36	0.74	
16	0.51	3.02	2.37	4.64	0.75	1.41	4.77	4.24	5.15	1.86	2.54	0.74	
17	0.93	3.67	2.29	3.93	0.93	1.33	4.78	3.90	4.92	1.82	2.60	0.77	
18	1.50	3.45	2.00	3.20	1.07	1.25	4.97	3.88	4.77	1.76	2.40	0.74	
19	1.86	3.65	1.73	2.53	1.24	1.17	4.95	4.47	4.64	1.71	1.93	0.72	
20	1.50	3.67	1.52	1.97	1.11	1.15	4.90	4.44	4.60	1.66	1.62	0.68	
21	1.53	3.52	1.38	1.68	1.65	1.19	4.88	4.73	4.88	1.61	1.46	0.96	
22	1.71	3.30	1.27	1.55	1.72	1.24	5.19	4.88	5.61	1.56	1.37	1.25	
23	3.27	2.99	1.19	1.44	1.64	1.13	5.19	4.87	5.63	1.51	1.35	0.90	
24	4.61	2.44	1.14	1.35	1.32	1.50	5.05	4.82	5.40	1.47	1.30	0.84	
25	4.10	2.00	1.09	1.28	1.54	1.70	4.79	5.07	5.13	1.45	1.26	1.00	
26	3.49	1.68	1.07	1.22	1.72	1.20	4.63	4.80	4.89	1.42	1.21	0.98	
27	3.69	1.52	1.04	1.17	2.48	1.85	4.59	4.68	4.68	1.38	1.29	0.91	
28	4.15	1.38	0.97	1.07	2.49	3.10	4.58	4.48	4.50	1.32	1.20	0.82	
29	4.26	1.32	0.97	1.05	2.78	3.00	4.54	4.54	4.30	1.29		0.73	
30	3.85	1.26	1.46	1.02	3.78	3.03	4.44	4.62	4.09	1.26		0.69	
31		1.27		0.98	3.84		4.28		3.92	1.22		0.66	
Mean	1.69	2.90	2.03	2.25	1.41	2.33	4.47	3.97	5.03	2.02	1.64	0.87	
Max	4.61	4.41	4.00	4.64	3.84	3.77	5.34	5.07	5.99	3.65	2.73	1.25	5.99
Min	0.49	1.26	0.97	0.98	0.75	1.13	2.66	2.64	3.92	1.22	0.43	0.66	0.43

Annual Max Momentary Gage Height 6.10 M (A.D), at 18.00 Hours, on Dec 13, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -3.81 M (A.D)
Left Bank Elevation 8.22 M (A.D)
Right Bank Elevation 8.13 M (A.D), Drainage Area 982 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.12	25.80	5.64	8.90	4.34	27.10	22.40	33.68	42.35	26.55	5.40	5.34	
2	2.70	27.21	12.05	8.98	4.39	26.33	18.30	31.07	37.25	24.10	4.86	4.86	
3	2.70	30.54	20.70	7.26	4.17	26.33	18.00	29.37	65.88	21.90	4.23	4.68	
4	5.96	35.43	18.60	6.48	3.90	27.87	16.60	26.44	73.75	19.90	3.57	4.50	
5	4.86	35.08	13.44	6.67	3.62	26.00	19.40	24.50	74.50	18.10	2.60	4.39	
6	2.90	27.10	15.68	10.25	4.01	23.80	36.47	22.10	93.50	16.90	1.80	4.17	
7	2.45	37.25	14.64	14.16	4.56	24.10	39.75	25.10	80.50	15.76	1.72	4.06	
8	2.20	32.29	18.70	20.40	3.79	23.80	36.65	24.10	73.00	14.40	10.18	3.95	
9	2.04	26.66	24.30	29.37	3.46	22.70	40.00	22.00	83.50	13.44	17.30	3.79	
10	2.00	20.10	30.80	27.54	3.25	19.90	40.50	21.00	81.25	13.04	15.76	3.62	
11	2.28	16.60	20.10	24.10	3.79	16.60	57.00	19.70	67.13	12.58	14.00	3.51	
12	2.40	13.04	15.84	26.55	4.68	13.36	82.00	17.70	73.00	12.12	14.08	3.40	
13	2.08	10.40	14.08	24.10	4.17	10.55	70.25	16.40	158.25	11.45	14.32	3.30	
14	2.00	9.43	14.00	22.50	3.84	8.52	56.00	17.70	119.75	11.07	13.44	3.15	
15	1.96	15.60	13.04	24.40	3.35	7.65	45.15	28.20	88.25	10.70	14.08	3.10	
16	2.04	20.20	14.16	43.40	3.15	7.06	47.95	34.20	68.38	10.25	15.52	3.10	
17	4.12	26.77	13.52	29.89	4.12	6.55	48.30	29.50	55.00	9.95	16.00	3.25	
18	7.65	24.50	11.30	22.00	4.92	6.02	57.50	29.24	47.95	9.50	14.40	3.10	
19	10.25	26.55	9.28	15.44	5.96	5.52	56.50	38.75	43.40	9.13	10.77	3.00	
20	7.65	26.77	7.78	11.07	5.16	5.40	54.00	38.00	42.00	8.75	8.45	2.80	
21	7.84	25.20	6.87	8.90	8.68	5.64	53.00	46.55	53.00	8.38	7.39	4.28	
22	9.13	23.00	6.15	7.98	9.20	5.96	70.88	53.00	105.05	8.04	6.80	6.02	
23	22.70	19.90	5.64	7.26	8.60	5.28	70.88	52.50	107.15	7.72	6.67	3.95	
24	42.35	14.72	5.34	6.67	6.48	7.65	62.13	50.00	86.50	7.46	6.35	3.62	
25	32.15	11.30	5.04	6.22	7.91	9.05	48.65	63.38	67.13	7.33	6.09	4.50	
26	24.90	8.90	4.92	5.83	9.20	5.70	43.05	49.00	53.50	7.13	5.77	4.39	
27	26.99	7.78	4.74	5.52	15.04	10.18	41.75	44.80	44.80	6.87	6.28	4.01	
28	32.83	6.87	4.34	4.92	15.12	21.00	41.50	39.00	39.50	6.48	5.70	3.51	
29	34.55	6.48	4.34	4.80	17.80	20.00	40.50	40.50	35.25	6.28		3.05	
30	28.85	6.09	7.39	4.62	27.98	20.30	38.00	42.70	32.02	6.09		2.85	
31		6.15		4.39	28.72		34.90		29.76	5.83		2.70	
Total	334.65	623.71	362.42	450.57	237.36	445.92	1407.96	1010.18	2122.25	367.20	253.53	117.95	7733.70 CMSDAY
Mean	11.16	20.12	12.08	14.53	7.66	14.86	45.42	33.67	68.46	11.85	9.05	3.80	21.19 CMS
Max	42.35	37.25	30.80	43.40	28.72	27.87	82.00	63.38	158.25	26.55	17.30	6.02	158.25 CMS
Min	1.96	6.09	4.34	4.39	3.15	5.28	16.60	16.40	29.76	5.83	1.72	2.70	1.72 CMS
Runoff	28.914	53.889	31.313	38.929	20.508	38.527	121.648	87.280	183.362	31.726	21.905	10.191	668.192 MCM

Momentary Peak 184.00 CMS, at 6.10 M (A.D), at 18.00 Hours, on Dec 13, 1996

Runoff Yield 21.58 Liters/Second/Square KM, Momentary Peak Yield 187.373 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

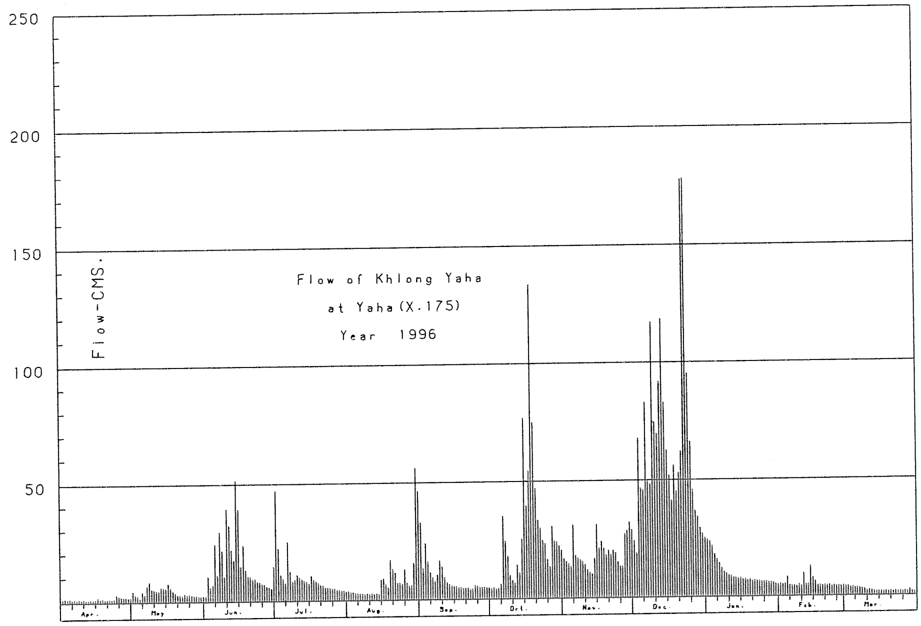
Khlong Yaha at Yaha, Yala (X.175)

Location	Lat. 06°-28'-25" N., Long. 101°-08'-32" E., on left bank on the bridge on Yala- Yaha road, Ban Yaha, Amphoe Yaha, Yala.
Drainage Area	350 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 17.80 meters from the third staff gage.
Elevation	+5.670 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	1989 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 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 22 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.98	2.09	2.02	3.65	2.07	3.01	2.10	2.40	2.51	2.54	2.12	2.09	
2	1.98	2.05	2.27	2.48	2.06	2.32	2.10	2.37	2.43	2.50	2.12	2.08	
3	1.98	2.02	2.14	2.28	2.05	2.52	2.09	2.35	4.47	2.47	2.12	2.07	
4	1.98	1.99	2.19	2.24	2.05	2.38	2.09	2.33	3.65	2.42	2.22	2.07	
5	1.97	2.09	2.54	2.20	2.04	2.29	2.16	2.92	3.60	2.38	2.10	2.06	
6	1.97	2.04	2.28	2.59	2.04	2.24	3.13	2.42	4.99	2.35	2.10	2.06	
7	1.97	2.18	2.83	2.31	2.03	2.21	2.55	2.40	3.79	2.30	2.09	2.06	
8	1.97	2.22	2.47	2.22	2.03	2.26	2.42	2.39	3.72	2.27	2.09	2.04	
9	1.97	2.13	2.26	2.23	2.03	2.39	2.25	2.37	5.75	2.25	2.11	2.04	
10	1.97	2.11	3.33	2.28	2.03	2.34	2.21	2.34	4.71	2.24	2.10	2.02	
11	1.96	2.10	2.98	2.25	2.03	2.24	2.17	2.30	4.55	2.23	2.25	2.02	
12	1.96	2.10	2.47	2.24	2.03	2.20	2.35	2.27	5.24	2.22	2.12	2.02	
13	1.96	2.16	2.41	2.22	2.03	2.16	2.27	2.26	5.78	2.21	2.11	2.00	
14	1.96	2.14	3.85	2.21	2.03	2.15	2.63	2.40	4.98	2.21	2.31	2.00	
15	1.96	2.13	3.30	2.20	2.22	2.14	4.79	2.92	4.29	2.21	2.21	2.00	
16	2.00	2.21	2.35	2.27	2.24	2.13	3.32	2.46	3.87	2.20	2.16	2.00	
17	1.98	2.14	2.50	2.23	2.17	2.12	3.97	2.53	3.41	2.20	2.10	2.00	
18	1.98	2.10	2.32	2.22	2.13	2.11	6.01	2.46	4.03	2.19	2.10	2.00	
19	1.97	2.06	2.27	2.20	2.40	2.11	4.73	2.42	3.57	2.19	2.10	2.00	
20	1.97	2.04	2.26	2.18	2.32	2.10	3.65	2.45	3.91	2.18	2.10	2.00	
21	1.97	2.03	2.24	2.16	2.29	2.10	3.03	2.42	4.26	2.18	2.10	2.00	
22	1.97	2.03	2.24	2.14	2.20	2.09	2.85	2.45	6.54	2.18	2.10	2.00	
23	1.97	2.05	2.22	2.13	2.19	2.09	2.59	2.43	6.54	2.17	2.09	2.00	
24	2.05	2.04	2.21	2.13	2.18	2.15	2.49	2.37	5.33	2.17	2.09	2.00	
25	2.02	2.04	2.20	2.12	2.32	2.13	2.39	2.33	4.42	2.17	2.09	2.00	
26	2.01	2.03	2.18	2.11	2.19	2.12	2.33	2.32	3.60	2.16	2.09	2.00	
27	2.01	2.03	2.16	2.10	2.15	2.12	2.90	2.72	3.20	2.16	2.09	2.00	
28	2.00	2.02	2.14	2.09	2.15	2.11	2.54	2.78	3.06	2.15	2.09	2.02	
29	2.00	2.02	2.13	2.09	2.37	2.11	2.51	2.97	2.83	2.15		2.00	
30	1.99	2.01	2.35	2.08	4.04	2.10	2.48	2.79	2.69	2.12		1.98	
31		2.01		2.07	3.62		2.45		2.61	2.12		1.98	
Mean	1.98	2.08	2.44	2.26	2.25	2.22	2.82	2.48	4.14	2.24	2.12	2.02	
Max	2.05	2.22	3.85	3.65	4.04	3.01	6.01	2.97	6.54	2.54	2.31	2.09	6.54
Min	1.96	1.99	2.02	2.07	2.03	2.09	2.09	2.26	2.43	2.12	2.09	1.98	1.96

Annual Max Momentary Gage Height 6.90 M (A.D), at 18.00 Hours, on Dec 22, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.38 M (A.D)
Left Bank Elevation 10.39 M (A.D)
Right Bank Elevation 10.69 M (A.D), Drainage Area 350 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	4.52	2.56	46.98	3.96	33.20	4.80	17.10	24.12	24.48	5.36	4.52	
2	1.60	3.40	10.92	22.62	3.68	13.30	4.80	15.67	19.17	24.00	5.36	4.24	
3	1.60	2.56	5.92	11.40	3.40	24.24	4.52	14.72	67.92	21.93	5.36	3.96	
4	1.60	1.80	7.32	9.50	3.40	16.15	4.52	13.77	46.98	18.48	8.55	3.96	
5	1.40	4.52	24.48	7.60	3.12	11.87	6.48	31.40	45.80	16.15	4.80	3.68	
6	1.40	3.12	11.40	25.08	3.12	9.50	35.60	18.48	83.38	14.72	4.80	3.68	
7	1.40	7.04	29.60	12.82	2.84	8.07	24.60	17.10	50.27	12.35	4.52	3.68	
8	1.40	8.55	21.93	8.55	2.84	10.45	18.48	16.63	48.62	10.92	4.52	3.12	
9	1.40	5.64	10.45	9.02	2.84	16.63	9.97	15.67	117.05	9.97	5.08	3.12	
10	1.40	5.08	39.79	11.40	2.84	14.25	8.07	14.25	74.69	9.50	4.80	2.56	
11	1.20	4.80	32.60	9.97	2.84	9.50	6.76	12.35	70.13	9.02	9.97	2.56	
12	1.20	4.80	21.93	9.50	2.84	7.60	14.72	10.92	91.86	8.55	5.36	2.56	
13	1.20	6.48	17.79	8.55	2.84	6.48	10.92	10.45	118.82	8.07	5.08	2.00	
14	1.20	5.92	51.75	8.07	2.84	6.20	25.77	17.10	83.06	8.07	12.82	2.00	
15	1.20	5.64	39.15	7.60	8.55	5.92	77.01	31.40	62.98	8.07	8.07	2.00	
16	2.00	8.07	14.72	10.92	9.50	5.64	39.58	21.24	52.25	7.60	6.48	2.00	
17	1.60	5.92	24.00	9.02	6.76	5.36	54.75	24.36	41.52	7.60	4.80	2.00	
18	1.60	4.80	13.30	8.55	5.64	5.08	133.51	21.24	56.25	7.32	4.80	2.00	
19	1.40	3.68	10.92	7.60	17.10	5.08	75.27	18.48	45.13	7.32	4.80	2.00	
20	1.40	3.12	10.45	7.04	13.30	4.80	46.98	20.55	53.25	7.04	4.80	2.00	
21	1.40	2.84	9.50	6.48	11.87	4.80	33.60	18.48	62.15	7.04	4.80	2.00	
22	1.40	2.84	9.50	5.92	7.60	4.52	30.00	20.55	178.05	7.04	4.80	2.00	
23	1.40	3.40	8.55	5.64	7.32	4.52	25.08	19.17	178.05	6.76	4.52	2.00	
24	3.40	3.12	8.07	5.64	7.04	6.20	23.31	15.67	95.59	6.76	4.52	2.00	
25	2.56	3.12	7.60	5.36	13.30	5.64	16.63	13.77	66.55	6.76	4.52	2.00	
26	2.28	2.84	7.04	5.08	7.32	5.36	13.77	13.30	45.80	6.48	4.52	2.00	
27	2.28	2.84	6.48	4.80	6.20	5.36	31.00	27.48	37.00	6.48	4.52	2.00	
28	2.00	2.56	5.92	4.52	6.20	5.08	24.48	28.62	34.20	6.20	4.52	2.56	
29	2.00	2.56	5.64	4.52	15.67	5.08	24.12	32.40	29.60	6.20		2.00	
30	1.80	2.28	14.72	4.24	56.50	4.80	22.62	28.81	26.91	5.36		1.60	
31		2.28		3.96	46.27		20.55		25.39	5.36		1.60	
Total	49.32	130.14	484.00	307.95	289.54	270.68	872.27	581.13	2032.54	311.60	156.85	79.40	5565.42 CMSDAY
Mean	1.64	4.20	16.13	9.93	9.34	9.02	28.14	19.37	65.57	10.05	5.60	2.56	15.25 CMS
Max	3.40	8.55	51.75	46.98	56.50	33.20	133.51	32.40	178.05	24.48	12.82	4.52	178.05 CMS
Min	1.20	1.80	2.56	3.96	2.84	4.52	4.52	10.45	19.17	5.36	4.52	1.60	1.20 CMS
Runoff	4.261	11.244	41.818	26.607	25.016	23.387	75.364	50.210	175.611	26.922	13.552	6.860	480.852 MCM

Momentary Peak 230.50 CMS, at 6.90 M (A.D), at 18.00 Hours, on Dec 22, 1996

Runoff Yield 43.56 Liters/Second/Square KM, Momentary Peak Yield 658.571 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENNINSULA EAST COAST

Tapi River at Chawang, Nakhon Si Thammarat (X.176)

Location	Lat. 08°-25′-38″ N., Long. 99°-30′-40″ E., on left bank at the bridge on Nakhon Si Thammarat-Chawang Highway, Amphoe Chawang, Nakhon Si Thammarat.
Drainage Area	684 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 7.40 meters from the top staff gage.
Elevation	+4.213 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	1989 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 5.38 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

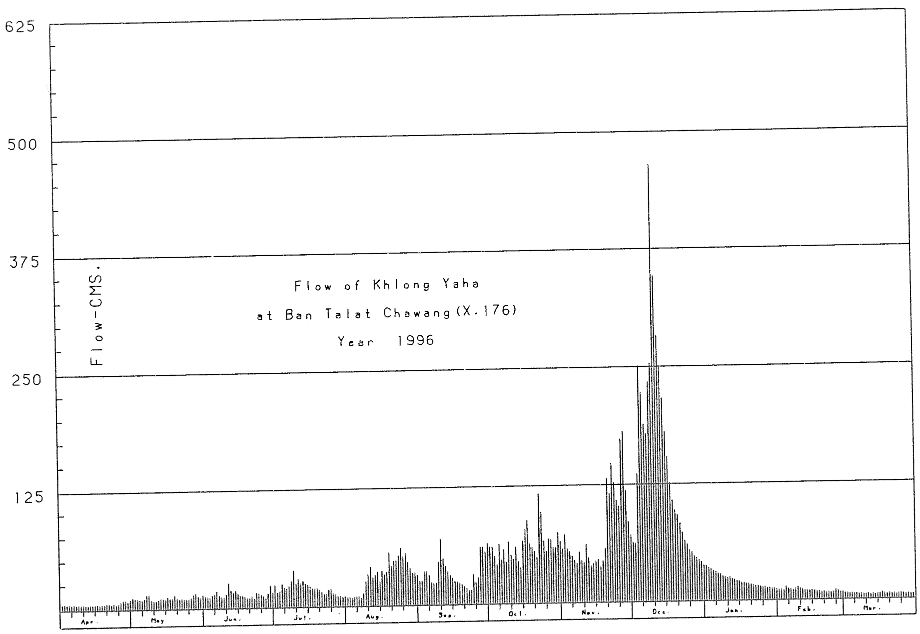
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	1.24	1.24	1.53	1.16	1.58	2.23	2.17	2.28	1.81	1.21	1.05	
2	0.99	1.20	1.24	1.36	1.14	1.56	2.24	2.41	2.25	1.78	1.20	1.02	
3	0.97	1.21	1.20	1.37	1.13	1.79	2.05	2.19	3.15	1.74	1.20	1.02	
4	0.97	1.16	1.29	1.57	1.16	1.78	1.91	2.12	4.05	1.71	1.29	1.01	
5	0.99	1.16	1.33	1.48	1.17	1.71	2.28	2.03	3.84	1.68	1.24	1.01	
6	0.99	1.20	1.40	1.44	1.17	1.55	1.98	1.96	3.60	1.66	1.20	1.00	
7	0.96	1.33	1.29	1.51	1.12	1.50	2.18	1.89	3.51	1.63	1.18	1.00	
8	0.95	1.32	1.22	1.62	1.27	1.54	1.95	2.12	3.93	1.60	1.22	0.98	
9	0.95	1.16	1.23	1.85	1.60	1.96	2.31	1.96	4.06	1.57	1.29	0.98	
10	0.95	1.10	1.30	1.57	1.74	2.38	2.08	1.90	5.30	1.56	1.25	0.97	
11	0.94	1.12	1.60	1.66	1.90	2.04	1.99	2.25	4.67	1.56	1.19	0.96	
12	0.94	1.16	1.43	1.56	1.67	1.88	2.23	1.99	4.27	1.53	1.17	0.91	
13	0.93	1.20	1.35	1.63	1.72	1.77	1.96	1.85	4.04	1.50	1.15	0.95	
14	0.93	1.21	1.43	1.55	1.80	1.70	1.82	1.88	3.80	1.48	1.16	0.94	
15	0.94	1.16	1.34	1.54	1.59	1.63	2.32	1.94	3.53	1.46	1.16	0.94	
16	0.93	1.24	1.26	1.48	1.81	1.57	2.50	1.96	3.30	1.44	1.13	0.95	
17	0.91	1.21	1.26	1.45	1.74	1.55	2.62	1.83	3.05	1.42	1.12	1.06	
18	0.93	1.19	1.22	1.43	1.78	1.51	2.28	1.93	2.84	1.41	1.10	0.99	
19	0.98	1.31	1.20	1.45	2.17	1.49	2.21	2.18	2.73	1.40	1.09	0.96	
20	1.04	1.20	1.17	1.40	1.91	1.42	2.14	3.10	2.66	1.39	1.08	0.99	
21	1.00	1.18	1.23	1.33	2.00	1.37	2.03	2.94	2.56	1.36	1.07	0.98	
22	0.99	1.21	1.18	1.28	2.00	1.32	2.95	3.25	2.42	1.34	1.06	0.96	
23	1.01	1.16	1.36	1.27	2.11	1.31	2.72	3.06	2.30	1.33	1.07	0.94	
24	0.98	1.17	1.32	1.42	2.25	1.71	2.32	2.85	2.23	1.32	1.08	0.98	
25	1.00	1.16	1.29	1.41	2.08	1.53	2.15	2.78	2.13	1.30	1.20	1.02	
26	1.07	1.20	1.23	1.30	2.14	1.63	2.35	3.47	2.08	1.29	1.12	0.96	
27	1.17	1.33	1.18	1.25	1.98	2.24	2.34	3.53	2.02	1.27	1.09	0.93	
28	1.14	1.34	1.32	1.21	1.85	2.23	2.20	2.97	1.97	1.26	1.07	0.92	
29	1.10	1.27	1.53	1.20	1.76	2.15	2.21	2.59	1.94	1.25		0.91	
30	1.18	1.20	1.34	1.19	1.76	2.29	2.45	2.39	1.89	1.24		0.90	
31		1.31		1.17	1.70		2.30		1.83	1.22		0.90	
Mean	0.99	1.21	1.30	1.43	1.69	1.72	2.24	2.38	3.04	1.47	1.16	0.97	
Max	1.18	1.34	1.60	1.85	2.25	2.38	2.95	3.53	5.30	1.81	1.29	1.06	5.30
Min	0.91	1.10	1.17	1.17	1.12	1.31	1.82	1.83	1.83	1.22	1.06	0.90	0.90

Annual Max Momentary Gage Height 5.43 M (A.D), at 9.00 Hours, on Dec 10, 1996

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.04 M (A.D)

Left Bank Elevation 5.37 M (A.D)

Right Bank Elevation 5.52 M (A.D), Drainage Area 684 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.40	12.86	12.86	24.02	10.48	26.22	60.95	57.35	64.20	37.64	11.84	7.67	
2	6.31	11.50	12.86	16.94	9.97	25.34	61.60	72.75	62.25	36.10	11.50	6.91	
3	6.12	11.84	11.50	17.28	9.71	36.60	50.75	58.45	137.00	34.10	11.50	6.91	
4	6.12	10.48	14.56	25.78	10.48	36.10	43.09	54.60	252.00	32.60	14.56	6.65	
5	6.31	10.48	15.92	21.82	10.73	32.60	64.20	49.65	222.60	31.10	12.86	6.65	
6	6.31	11.50	18.30	20.06	10.73	24.90	46.91	45.82	190.00	30.10	11.50	6.40	
7	6.02	15.92	14.56	23.14	9.46	22.70	57.90	42.01	179.20	28.60	10.99	6.40	
8	5.93	15.58	12.18	28.10	13.88	24.46	45.28	54.60	235.20	27.10	12.18	6.21	
9	5.93	10.48	12.52	39.83	27.10	45.82	66.15	45.82	253.40	25.78	14.56	6.21	
10	5.93	8.95	14.90	25.78	34.10	70.70	52.40	42.55	465.00	25.34	13.20	6.12	
11	5.83	9.46	27.10	30.10	42.55	50.20	47.46	62.25	346.25	25.34	11.25	6.02	
12	5.83	10.48	19.62	25.34	30.60	41.46	60.95	47.46	283.50	24.02	10.73	5.55	
13	5.74	11.50	16.60	28.60	33.10	35.60	45.82	39.83	250.60	22.70	10.22	5.93	
14	5.74	11.84	19.62	24.90	37.10	32.10	38.19	41.46	217.00	21.82	10.48	5.83	
15	5.83	10.48	16.26	24.46	26.66	28.60	66.80	44.73	181.60	20.94	10.48	5.83	
16	5.74	12.86	13.54	21.82	37.64	25.78	79.50	45.82	154.00	20.06	9.71	5.93	
17	5.55	11.84	13.54	20.50	34.10	24.90	88.70	38.74	127.00	19.18	9.46	7.93	
18	5.74	11.25	12.18	19.62	36.10	23.14	64.20	44.18	107.60	18.74	8.95	6.31	
19	6.21	15.24	11.50	20.50	57.35	22.26	59.65	57.90	98.05	18.30	8.70	6.02	
20	7.42	11.50	10.73	18.30	43.09	19.18	55.70	132.00	92.10	17.96	8.44	6.31	
21	6.40	10.99	12.52	15.92	48.00	17.28	49.65	116.60	84.00	16.94	8.19	6.21	
22	6.31	11.84	10.99	14.22	48.00	15.58	117.50	148.00	73.50	16.26	7.93	6.02	
23	6.65	10.48	16.94	13.88	54.05	15.24	97.20	128.00	65.50	15.92	8.19	5.83	
24	6.21	10.73	15.58	19.18	62.25	32.60	66.80	108.50	60.95	15.58	8.44	6.21	
25	6.40	10.48	14.56	18.74	52.40	24.02	56.25	102.30	55.15	14.90	11.50	6.91	
26	8.19	11.50	12.52	14.90	55.70	28.60	68.75	174.40	52.40	14.56	9.46	6.02	
27	10.73	15.92	10.99	13.20	46.91	61.60	68.10	181.60	49.10	13.88	8.70	5.74	
28	9.97	16.26	15.58	11.84	39.83	60.95	59.00	119.30	46.37	13.54	8.19	5.64	
29	8.95	13.88	24.02	11.50	35.10	56.25	59.65	86.25	44.73	13.20		5.55	
30	10.99	11.50	16.26	11.25	35.10	64.85	75.75	71.35	42.01	12.86		5.45	
31		15.24		10.73	32.10		65.50		38.74	12.18		5.45	
Total	201.81	374.86	450.81	632.25	1034.37	1025.63	1940.35	2314.27	4531.00	677.34	293.71	192.82	13669.22 CMSDAY
Mean	6.73	12.09	15.03	20.40	33.37	34.19	62.59	77.14	146.16	21.85	10.49	6.22	37.45 CMS
Max	10.99	16.26	27.10	39.83	62.25	70.70	117.50	181.60	465.00	37.64	14.56	7.93	465.00 CMS
Min	5.55	8.95	10.73	10.73	9.46	15.24	38.19	38.74	38.74	12.18	7.93	5.45	5.45 CMS
Runoff	17.436	32.388	38.950	54.626	89.370	88.614	167.646	199.953	391.478	58.522	25.377	16.660	1181.021 MCM

Momentary Peak 492.60 CMS, at 5.43 M (A.D), at 9.00 Hours, on Dec 10, 1996

Runoff Yield 54.75 Liters/Second/Square KM, Momentary Peak Yield 720.175 Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

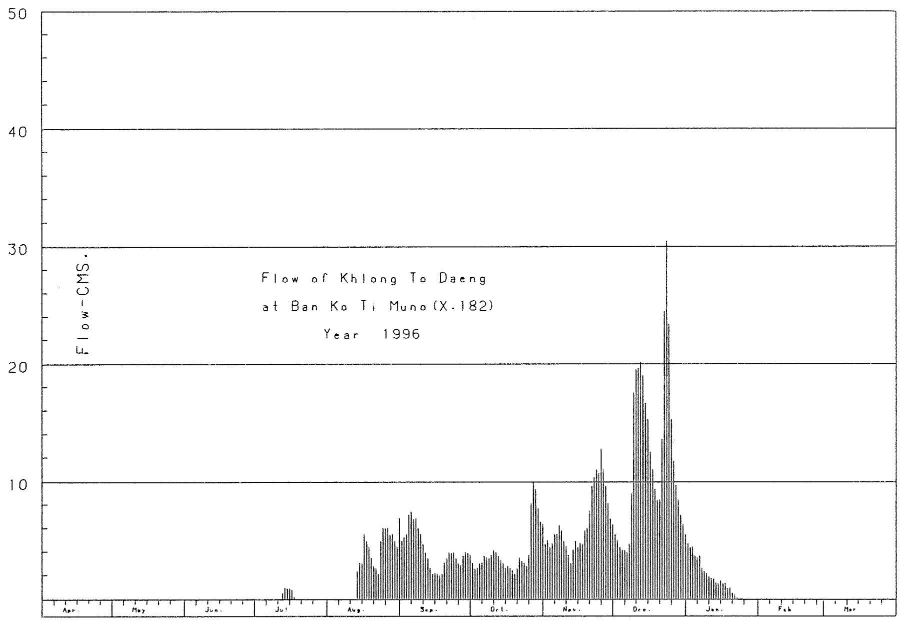
Khlong To Daeng at Ban To Daeng, Narathiwat (X.182)

Location	Lat. 06°-04'-28" N., Long. 101°-58'-08" E., on right bank at the bridge, Ban To Daeng, Amphoe Sungai Kolok, Narathiwat.
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 at the abutment of the bridge.
Elevation	+3.888 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	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 5 discharge measurements made in 1996.

Gage Height in Meter (AD), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	0.64	0.88	0.87	0.97	1.23	1.15	1.22	1.25	1.22	0.91	0.90	
2	0.77	0.62	0.87	0.85	0.95	1.24	1.13	1.23	1.23	1.21	0.90	0.90	
3	0.77	0.66	0.85	0.85	0.96	1.25	1.13	1.21	1.21	1.21	0.89	0.89	
4	0.76	0.67	0.83	0.85	0.95	1.31	1.15	1.22	1.20	1.18	0.91	0.88	
5	0.73	0.68	0.83	0.83	0.93	1.32	1.15	1.25	1.20	1.17	0.90	0.87	
6	0.73	0.71	0.83	0.83	0.91	1.30	1.18	1.25	1.19	1.18	0.90	0.86	
7	0.73	0.72	0.81	0.81	0.90	1.30	1.17	1.28	1.22	1.13	0.90	0.85	
8	0.73	0.72	0.80	0.83	0.90	1.27	1.17	1.26	1.37	1.12	0.89	0.86	
9	0.71	0.78	0.79	0.83	0.90	1.25	1.18	1.23	1.59	1.11	0.89	0.85	
10	0.70	0.80	0.78	0.89	0.95	1.22	1.20	1.21	1.63	1.10	0.89	0.85	
11	0.69	0.85	0.79	0.99	0.97	1.19	1.19	1.18	1.63	1.09	0.89	0.85	
12	0.69	0.94	0.78	1.03	1.00	1.17	1.18	1.15	1.64	1.09	0.88	0.85	
13	0.67	0.95	0.77	1.05	1.12	1.13	1.16	1.20	1.62	1.07	0.89	0.83	
14	0.65	0.95	0.80	1.05	1.15	1.11	1.15	1.23	1.57	1.07	0.89	0.84	
15	0.64	0.95	0.80	1.05	1.15	1.11	1.13	1.21	1.54	1.08	0.89	0.81	
16	0.63	0.95	0.80	1.04	1.25	1.11	1.14	1.22	1.47	1.07	0.89	0.81	
17	0.62	0.95	0.87	1.01	1.23	1.10	1.13	1.22	1.43	1.07	0.88	0.81	
18	0.61	0.93	0.87	1.00	1.21	1.11	1.12	1.26	1.38	1.05	0.87	0.80	
19	0.60	0.91	0.87	0.98	1.17	1.15	1.11	1.27	1.35	1.05	0.87	0.79	
20	0.59	0.90	0.87	0.97	1.14	1.17	1.13	1.32	1.35	1.03	0.87	0.78	
21	0.57	0.90	0.86	0.98	1.13	1.19	1.17	1.39	1.50	1.02	0.85	0.77	
22	0.57	0.91	0.87	1.00	1.11	1.19	1.16	1.41	1.72	1.01	0.85	0.77	
23	0.56	0.91	0.88	0.99	1.23	1.19	1.15	1.43	1.82	1.00	0.87	0.75	
24	0.55	0.91	0.88	0.97	1.27	1.17	1.14	1.42	1.70	0.99	0.89	0.75	
25	0.55	0.93	0.89	0.95	1.27	1.15	1.18	1.48	1.54	0.97	0.89	0.75	
26	0.53	0.95	0.90	0.94	1.27	1.14	1.34	1.43	1.45	0.97	0.90	0.74	
27	0.53	0.95	0.90	0.93	1.25	1.18	1.40	1.39	1.39	0.96	0.91	0.73	
28	0.52	0.94	0.90	0.91	1.25	1.19	1.38	1.34	1.35	0.95	0.91	0.76	
29	0.51	0.93	0.90	0.90	1.23	1.19	1.33	1.30	1.31	0.93		0.77	
30	0.50	0.90	0.89	0.89	1.21	1.18	1.29	1.28	1.28	0.93		0.76	
31		0.90		0.97	1.30		1.28		1.25	0.92		0.76	
Mean	0.64	0.85	0.85	0.94	1.10	1.19	1.19	1.28	1.43	1.06	0.89	0.81	
Max	0.77	0.95	0.90	1.05	1.30	1.32	1.40	1.48	1.82	1.22	0.91	0.90	1.82
Min	0.50	0.62	0.77	0.81	0.90	1.10	1.11	1.15	1.19	0.92	0.85	0.73	0.50

Annual Max Momentary Gage Height 1.83 M (AD), at 6.00 Hours, on Dec 23, 1996
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -2.14 M (AD)
Left Bank Elevation 3.92 M (AD)
Right Bank Elevation 3.89 M (AD), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

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	5.01	3.10	4.74	5.55	4.74	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	5.28	2.66	5.01	5.01	4.47	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	5.55	2.66	4.47	4.47	4.47	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	7.21	3.10	4.74	4.20	3.76	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	7.52	3.10	5.55	4.20	3.54	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	6.90	3.76	5.55	3.98	3.76	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	6.90	3.54	6.36	4.74	2.66	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	6.09	3.54	5.82	9.07	2.44	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	5.55	3.76	5.01	17.56	2.22	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	4.74	4.20	4.47	19.62	2.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	3.98	3.98	3.76	19.62	1.80	0.00	0.00	
12	0.00	0.00	0.00	0.60	0.00	3.54	3.76	3.10	20.16	1.80	0.00	0.00	
13	0.00	0.00	0.00	1.00	2.44	2.66	3.32	4.20	19.08	1.40	0.00	0.00	
14	0.00	0.00	0.00	1.00	3.10	2.22	3.10	5.01	16.68	1.40	0.00	0.00	
15	0.00	0.00	0.00	1.00	3.10	2.22	2.66	4.47	15.36	1.60	0.00	0.00	
16	0.00	0.00	0.00	0.80	5.55	2.22	2.88	4.74	12.52	1.40	0.00	0.00	
17	0.00	0.00	0.00	0.20	5.01	2.00	2.66	4.74	11.08	1.40	0.00	0.00	
18	0.00	0.00	0.00	0.00	4.47	2.22	2.44	5.82	9.38	1.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	3.54	3.10	2.22	6.09	8.45	1.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	2.88	3.54	2.66	7.52	8.45	0.60	0.00	0.00	
21	0.00	0.00	0.00	0.00	2.66	3.98	3.54	9.69	13.60	0.40	0.00	0.00	
22	0.00	0.00	0.00	0.00	2.22	3.98	3.32	10.36	24.56	0.20	0.00	0.00	
23	0.00	0.00	0.00	0.00	5.01	3.98	3.10	11.08	30.56	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	6.09	3.54	2.88	10.72	23.40	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	6.09	3.10	3.76	12.88	15.36	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	6.09	2.88	8.14	11.08	11.80	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	5.55	3.76	10.00	9.69	9.69	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	5.55	3.98	9.38	8.14	8.45	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	5.01	3.98	7.83	6.90	7.21	0.00		0.00	
30	0.00	0.00	0.00	0.00	4.47	3.76	6.63	6.36	6.36	0.00		0.00	
31		0.00		0.00	6.90		6.36		5.55	0.00		0.00	
Total	0.00	0.00	0.00	4.60	85.73	125.39	128.04	198.07	375.72	48.06	0.00	0.00	965.61 CMSDAY
Mean	0.00	0.00	0.00	0.15	2.77	4.18	4.13	6.60	12.12	1.55	0.00	0.00	2.65 CMS
Max	0.00	0.00	0.00	1.00	6.90	7.52	10.00	12.88	30.56	4.74	0.00	0.00	30.56 CMS
Min	0.00	0.00	0.00	0.00	0.00	2.00	2.22	3.10	3.98	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.000	0.397	7.407	10.834	11.063	17.113	32.462	4.152	0.000	0.000	83.429 MCM

Momentary Peak 31.24 CMS, at 1.83 M (AD), at 6.00 Hours, on Dec 23, 1996

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

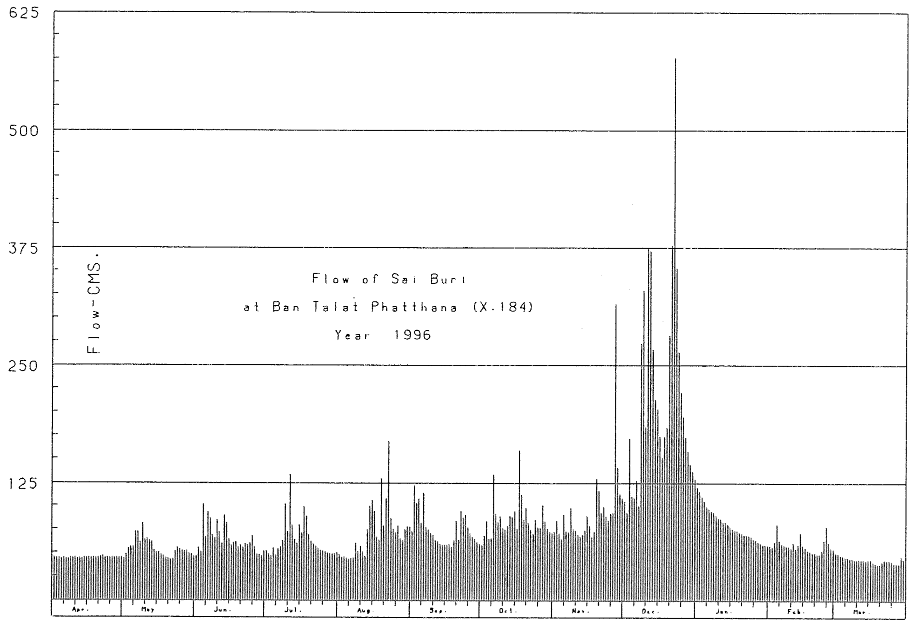
Sai Buri River at Ban Talat Phatthana, Narathiwat (X.184)

Location	Lat. 06°-13'-32" N., Long. 101°-30'-00" E., on right bank at the bridge, Ban Talat Phatthana, Amphoe Si Sakhon, Narathiwat.
Drainage Area	1,167 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 30 meters from the top staff gage.
Elevation	+10.518 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	1996 to date.
Rating Operation	
Period of Rating	1996 to date.
Rated by Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 39 discharge measurements made in 1996.

Gage Height in Meter (A.D), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.29	0.28	0.32	0.40	0.34	0.67	0.48	0.67	1.03	1.19	0.47	0.37	
2	0.29	0.34	0.44	0.35	0.30	1.20	0.61	0.82	0.91	1.14	0.46	0.35	
3	0.28	0.44	0.39	0.31	0.30	1.02	0.81	0.64	1.67	1.09	0.52	0.33	
4	0.28	0.45	1.01	0.44	0.29	1.06	0.56	0.57	1.09	1.04	0.77	0.31	
5	0.28	0.46	0.60	0.33	0.27	0.78	0.58	0.88	1.07	0.98	0.54	0.30	
6	0.28	0.66	0.91	0.42	0.27	1.13	1.32	0.67	1.25	0.95	0.50	0.29	
7	0.28	0.67	0.85	0.46	0.29	0.73	0.89	0.66	0.99	0.93	0.48	0.28	
8	0.29	0.52	0.62	0.54	0.51	0.69	0.80	0.97	2.48	0.91	0.47	0.27	
9	0.29	0.78	0.58	1.01	0.39	0.65	0.86	0.70	2.87	0.88	0.46	0.26	
10	0.29	0.56	0.82	0.67	0.47	0.62	0.72	0.68	1.77	0.85	0.44	0.26	
11	0.28	0.57	0.66	1.32	0.38	0.55	0.69	0.63	3.15	0.83	0.51	0.26	
12	0.28	0.55	0.50	0.75	0.31	0.53	0.75	0.60	3.14	0.80	0.43	0.26	
13	0.28	0.52	0.88	0.56	0.70	0.50	0.87	0.63	2.44	0.79	0.48	0.25	
14	0.29	0.41	0.78	0.50	0.98	0.48	0.85	0.68	2.02	0.77	0.65	0.25	
15	0.29	0.37	0.57	0.75	1.05	0.49	0.92	0.87	1.93	0.73	0.47	0.25	
16	0.29	0.37	0.48	0.65	0.92	0.48	0.70	0.75	1.68	0.70	0.44	0.25	
17	0.29	0.34	0.51	0.97	0.59	0.49	1.55	0.59	1.49	0.69	0.41	0.22	
18	0.29	0.31	0.53	0.87	0.56	0.46	1.11	0.67	1.68	0.68	0.39	0.19	
19	0.29	0.29	0.45	0.62	1.27	0.55	0.82	1.27	1.77	0.66	0.37	0.18	
20	0.29	0.27	0.48	0.53	0.74	0.80	0.97	1.15	2.54	0.64	0.36	0.17	
21	0.31	0.25	0.45	0.50	1.07	0.55	0.79	0.90	3.17	0.63	0.35	0.23	
22	0.31	0.27	0.50	0.47	1.64	0.93	0.69	0.98	4.30	0.62	0.34	0.25	
23	0.29	0.40	0.48	0.43	0.84	0.85	0.64	0.86	3.02	0.62	0.41	0.25	
24	0.29	0.44	0.51	0.41	0.70	0.87	0.82	0.82	2.42	0.60	0.54	0.24	
25	0.29	0.42	0.61	0.39	0.66	0.73	0.73	0.90	2.08	0.57	0.74	0.24	
26	0.29	0.41	0.45	0.38	0.74	0.64	0.71	0.90	1.86	0.55	0.52	0.20	
27	0.29	0.40	0.35	0.37	0.58	0.60	1.00	2.77	1.68	0.53	0.43	0.18	
28	0.29	0.40	0.33	0.35	0.54	0.56	0.80	1.39	1.54	0.50	0.42	0.19	
29	0.29	0.36	0.32	0.35	0.70	0.52	0.70	1.12	1.42	0.49		0.31	
30	0.29	0.34	0.39	0.35	0.73	0.49	0.67	1.07	1.34	0.48		0.26	
31		0.30		0.38	0.73		0.64		1.27	0.48		0.20	
Mean	0.29	0.42	0.56	0.54	0.64	0.69	0.81	0.89	1.97	0.75	0.48	0.25	
Max	0.31	0.78	1.01	1.32	1.64	1.20	1.55	2.77	4.30	1.19	0.77	0.37	4.30
Min	0.28	0.25	0.32	0.31	0.27	0.46	0.48	0.57	0.91	0.48	0.34	0.17	0.17

Annual Max Momentary Gage Height 4.42 M (A.D), at 15.00 Hours, on Dec 22, 1996
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.69 M (A.D)
Left Bank Elevation 12.12 M (A.D)
Right Bank Elevation 11.86 M (A.D), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	45.85	45.20	47.80	53.00	49.10	73.60	59.00	73.60	105.00	121.00	58.25	51.05		
2	45.85	49.10	56.00	49.75	46.50	122.00	68.80	85.80	93.90	116.00	57.50	49.75		
3	45.20	56.00	52.35	47.15	46.50	104.00	84.90	71.20	173.05	111.00	62.00	48.45		
4	45.20	56.75	103.00	56.00	45.85	108.00	65.00	65.75	111.00	106.00	81.60	47.15		
5	45.20	57.50	68.00	48.45	44.55	82.40	66.50	91.20	109.00	100.20	63.50	46.50		
6	45.20	72.80	93.90	54.50	44.55	115.00	134.60	73.60	127.25	97.50	60.50	45.85		
7	45.20	73.60	88.50	57.50	45.85	78.40	92.10	72.80	101.10	95.70	59.00	45.20		
8	45.85	62.00	69.60	63.50	61.25	75.20	84.00	99.30	273.20	93.90	58.25	44.55		
9	45.85	82.40	66.50	103.00	52.35	72.00	89.40	76.00	330.50	91.20	57.50	43.90		
10	45.85	65.00	85.80	73.60	58.25	69.60	77.60	74.40	184.55	88.50	56.00	43.90		
11	45.20	65.75	72.80	134.60	51.70	64.25	75.20	70.40	374.00	86.70	61.25	43.90		
12	45.20	64.25	60.50	80.00	47.15	62.75	80.00	68.00	372.40	84.00	55.25	43.90		
13	45.20	62.00	91.20	65.00	76.00	60.50	90.30	70.40	267.60	83.20	59.00	43.25		
14	45.85	53.75	82.40	60.50	100.20	59.00	88.50	74.40	214.50	81.60	72.00	43.25		
15	45.85	51.05	65.75	80.00	107.00	59.75	94.80	90.30	203.60	78.40	58.25	43.25		
16	45.85	51.05	59.00	72.00	94.80	59.00	76.00	80.00	174.20	76.00	56.00	43.25		
17	45.85	49.10	61.25	99.30	67.25	59.75	159.50	67.25	152.90	75.20	53.75	41.30		
18	45.85	47.15	62.75	90.30	65.00	57.50	113.00	73.60	174.20	74.40	52.35	39.50		
19	45.85	45.85	56.75	69.60	129.35	64.25	85.80	129.35	184.55	72.80	51.05	39.00		
20	45.85	44.55	59.00	62.75	79.20	84.00	99.30	117.00	281.60	71.20	50.40	38.50		
21	47.15	43.25	56.75	60.50	109.00	64.25	83.20	93.00	377.20	70.40	49.75	41.95		
22	47.15	44.55	60.50	58.25	169.60	95.70	75.20	100.20	577.00	69.60	49.10	43.25		
23	45.85	53.00	59.00	55.25	87.60	88.50	71.20	89.40	353.20	69.60	53.75	43.25		
24	45.85	56.00	61.25	53.75	76.00	90.30	85.80	85.80	264.80	68.00	63.50	42.60		
25	45.85	54.50	68.80	52.35	72.80	78.40	78.40	93.00	222.00	65.75	79.20	42.60		
26	45.85	53.75	56.75	51.70	79.20	71.20	76.80	93.00	195.20	64.25	62.00	40.00		
27	45.85	53.00	49.75	51.05	66.50	68.00	102.00	315.50	174.20	62.75	55.25	39.00		
28	45.85	53.00	48.45	49.75	63.50	65.00	84.00	141.95	158.40	60.50	54.50	39.50		
29	45.85	50.40	47.80	49.75	76.00	62.00	76.00	114.00	145.20	59.75		47.15		
30	45.85	49.10	52.35	49.75	78.40	59.75	73.60	109.00	136.70	59.00		43.90		
31		46.50		51.70	78.40		71.20		129.35	59.00		40.00		
Total	1372.90	1711.90	1964.25	2004.30	2269.40	2274.05	2661.70	2859.20	6741.35	2513.10	1650.45	1348.60	29371.20	CMSDAY
Mean	45.76	55.22	65.47	64.65	73.21	75.80	85.86	95.31	217.46	81.07	58.94	43.50	80.47	CMS
Max	47.15	82.40	103.00	134.60	169.60	122.00	159.50	315.50	577.00	121.00	81.60	51.05	577.00	CMS
Min	45.20	43.25	47.80	47.15	44.55	57.50	59.00	65.75	93.90	59.00	49.10	38.50	38.50	CMS
Runoff	118.619	147.908	169.711	173.172	196.076	196.478	229.971	247.035	582.453	217.132	142.599	116.519	2537.672	MCM

Momentary Peak 599.80 CMS, at 4.42 M (A.D), at 15.00 Hours, on Dec 22, 1996

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Khlong Takua Pa at Ban Hin Dan, Phang Nga, (X.187)

Location — Lat. 08°-46′-26″ N., Long. 98°-23′-33″ E., on left bank at the bridge on Surat Thani - Phang Nga Highway, Amphoe Takua Pa, Pang Nga.

Drainage Area — 539 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +5.00 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 4.00 meters from the top staff gage.

Elevation — +11.405 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 — 1996 to date.

Rating Operation

Period of Rating — 1996 to date.

Rated by Float — -

Rated by Current Meter — 1996 to date.

Stability of Channel Regimes — Stable.

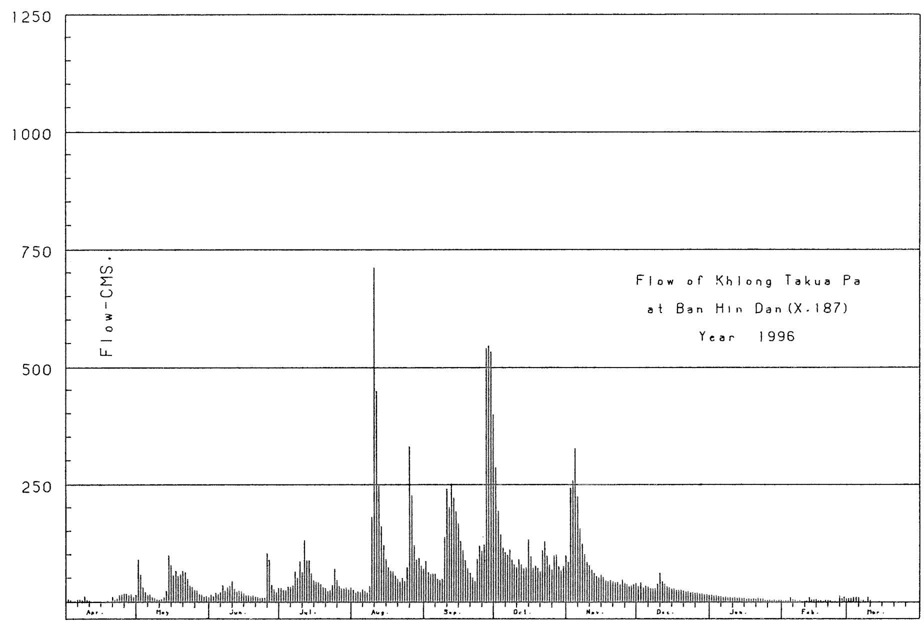
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 49 discharge measurements made in 1996.

Gage Height in Meter (MSL), Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.20	6.97	6.35	6.52	6.47	6.94	7.92	6.94	6.56	6.34	6.16	6.23	
2	6.19	6.75	6.32	6.49	6.42	6.80	7.53	7.74	6.64	6.34	6.15	6.27	
3	6.11	6.55	6.40	6.46	6.44	6.76	7.27	7.81	6.55	6.33	6.18	6.28	
4	6.11	6.42	6.38	6.56	6.43	6.77	7.12	8.07	6.57	6.32	6.27	6.31	
5	6.21	6.35	6.41	6.54	6.49	6.78	7.05	7.67	6.55	6.31	6.23	6.27	
6	6.18	6.35	6.59	6.59	6.44	6.70	7.02	7.34	6.53	6.30	6.18	6.20	
7	6.18	6.29	6.45	6.80	6.42	6.67	7.10	7.17	6.52	6.29	6.15	6.18	
8	6.32	6.25	6.55	6.70	6.57	6.70	6.97	7.03	6.52	6.29	6.17	6.15	
9	6.20	6.21	6.57	6.95	7.46	7.24	6.90	6.94	6.61	6.28	6.14	6.28	
10	6.15	6.20	6.66	6.80	9.18	7.74	6.87	6.89	6.79	6.28	6.12	6.19	
11	6.13	6.21	6.50	7.21	8.47	7.56	6.97	6.84	6.66	6.27	6.12	6.16	
12	6.10	6.30	6.45	6.95	7.77	7.78	6.90	6.78	6.61	6.27	6.29	6.13	
13	6.12	6.45	6.45	6.96	7.37	7.65	6.85	6.74	6.57	6.26	6.18	6.11	
14	6.11	7.02	6.46	6.77	7.14	7.52	6.86	6.71	6.54	6.26	6.22	6.11	
15	6.09	6.89	6.39	6.67	6.98	7.40	7.21	6.76	6.52	6.25	6.21	6.11	
16	6.07	6.74	6.35	6.64	6.86	7.20	7.01	6.72	6.51	6.24	6.17	6.13	
17	6.05	6.82	6.33	6.64	6.82	7.08	6.85	6.67	6.49	6.23	6.16	6.11	
18	6.12	6.73	6.33	6.60	6.80	6.96	6.89	6.65	6.48	6.23	6.16	6.11	
19	6.09	6.77	6.33	6.55	6.75	6.85	6.85	6.68	6.50	6.23	6.16	6.10	
20	6.31	6.81	6.31	6.52	6.69	6.79	6.81	6.65	6.46	6.23	6.19	6.08	
21	6.20	6.80	6.29	6.46	6.65	6.71	7.08	6.64	6.45	6.25	6.16	6.07	
22	6.22	6.69	6.27	6.47	6.71	6.66	7.20	6.64	6.44	6.24	6.14	6.06	
23	6.35	6.58	6.26	6.58	6.65	6.97	7.02	6.61	6.43	6.23	6.13	6.05	
24	6.35	6.54	6.27	6.85	6.87	7.14	6.90	6.68	6.42	6.20	6.12	6.05	
25	6.40	6.49	7.05	6.68	8.09	7.07	6.84	6.63	6.41	6.19	6.32	6.05	
26	6.37	6.46	6.96	6.57	7.68	7.15	7.01	6.60	6.40	6.19	6.26	6.04	
27	6.35	6.38	6.60	6.51	7.14	8.73	7.02	6.57	6.39	6.18	6.29	6.03	
28	6.36	6.35	6.49	6.52	6.96	8.74	6.88	6.57	6.38	6.18	6.26	6.03	
29	6.30	6.31	6.43	6.53	6.99	8.71	6.82	6.61	6.37	6.17		6.03	
30	6.34	6.31	6.52	6.49	6.89	8.31	6.88	6.62	6.36	6.17		6.02	
31		6.29		6.53	6.84		7.02		6.35	6.17		6.04	
Mean	6.21	6.53	6.46	6.65	7.01	7.27	7.02	6.90	6.50	6.25	6.19	6.13	
Max	6.40	7.02	7.05	7.21	9.18	8.74	7.92	8.07	6.79	6.34	6.32	6.31	9.18
Min	6.05	6.20	6.26	6.46	6.42	6.66	6.81	6.57	6.35	6.17	6.12	6.02	6.02

Annual Max Momentary Gage Height 9.25 M (MSL), at 9.00 Hours, on Aug 10, 1996
Zero Gage at Bottom Elevation 5.00 M (MSL), River Bed 4.95 M (MSL)
Left Bank Elevation 11.86 M (MSL)
Right Bank Elevation 11.60 M (MSL), Drainage Area 539 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.00	91.90	16.00	30.00	25.60	86.80	288.00	86.80	34.00	15.20	4.40	7.80		
2	5.60	58.00	13.60	27.20	21.60	65.00	196.30	243.00	43.20	15.20	4.00	10.20		
3	2.40	33.00	20.00	24.80	23.20	59.40	143.60	260.50	33.00	14.40	5.20	10.80		
4	2.40	21.60	18.40	34.00	22.40	60.80	117.40	327.60	35.00	13.60	10.20	12.80		
5	6.60	16.00	20.80	32.00	27.20	62.20	105.50	226.40	33.00	12.80	7.80	10.20		
6	5.20	16.00	37.00	37.00	23.20	51.00	100.40	157.00	31.00	12.00	5.20	6.00		
7	5.20	11.40	24.00	65.00	21.60	47.10	114.00	125.90	30.00	11.40	4.00	5.20		
8	13.60	9.00	33.00	51.00	35.00	51.00	91.90	102.10	30.00	11.40	4.80	4.00		
9	6.00	6.60	35.00	88.50	181.60	138.20	80.00	86.80	39.30	10.80	3.60	10.80		
10	4.00	6.00	45.80	65.00	712.00	243.00	75.50	78.50	63.60	10.80	2.80	5.60		
11	3.20	6.60	28.00	132.80	451.10	202.60	91.90	71.00	45.80	10.20	2.80	4.40		
12	2.00	12.00	24.00	88.50	250.50	253.00	80.00	62.20	39.30	10.20	11.40	3.20		
13	2.80	24.00	24.00	90.20	163.00	222.00	72.50	56.60	35.00	9.60	5.20	2.40		
14	2.40	100.40	24.80	60.80	120.80	194.20	74.00	52.40	32.00	9.60	7.20	2.40		
15	1.80	78.50	19.20	47.10	93.60	169.00	132.80	59.40	30.00	9.00	6.60	2.40		
16	1.40	56.60	16.00	43.20	74.00	131.00	98.70	53.80	29.00	8.40	4.80	3.20		
17	1.00	68.00	14.40	43.20	68.00	110.60	72.50	47.10	27.20	7.80	4.40	2.40		
18	2.80	55.20	14.40	38.00	65.00	90.20	78.50	44.50	26.40	7.80	4.40	2.40		
19	1.80	60.80	14.40	33.00	58.00	72.50	72.50	48.40	28.00	7.80	4.40	2.00		
20	12.80	66.50	12.80	30.00	49.70	63.60	66.50	44.50	24.80	7.80	5.60	1.60		
21	6.00	65.00	11.40	24.80	44.50	52.40	110.60	43.20	24.00	9.00	4.40	1.40		
22	7.20	49.70	10.20	25.60	52.40	45.80	131.00	43.20	23.20	8.40	3.60	1.20		
23	16.00	36.00	9.60	36.00	44.50	91.90	100.40	39.30	22.40	7.80	3.20	1.00		
24	16.00	32.00	10.20	72.50	75.50	120.80	80.00	48.40	21.60	6.00	2.80	1.00		
25	20.00	27.20	105.50	48.40	333.20	108.90	71.00	41.90	20.80	5.60	13.60	1.00		
26	17.60	24.80	90.20	35.00	228.60	122.50	98.70	38.00	20.00	5.60	9.60	0.80		
27	16.00	18.40	38.00	29.00	120.80	541.80	100.40	35.00	19.20	5.20	11.40	0.60		
28	16.80	16.00	27.20	30.00	90.20	545.40	77.00	35.00	18.40	5.20	9.60	0.60		
29	12.00	12.80	22.40	31.00	95.30	534.60	68.00	39.30	17.60	4.80		0.60		
30	15.20	12.80	30.00	27.20	78.50	399.20	77.00	40.60	16.80	4.80		0.40		
31		11.40		31.00	71.00		100.40		16.00	4.80		0.80		
Total	231.80	1104.20	810.30	1451.80	3721.60	4936.50	3167.00	2638.40	909.60	283.00	167.00	119.20	19540.40	CMSDAY
Mean	7.73	35.62	27.01	46.83	120.05	164.55	102.16	87.95	29.34	9.13	5.96	3.85	53.54	CMS
Max	20.00	100.40	105.50	132.80	712.00	545.40	288.00	327.60	63.60	15.20	13.60	12.80	712.00	CMS
Min	1.00	6.00	9.60	24.80	21.60	45.80	66.50	35.00	16.00	4.80	2.80	0.40	0.40	CMS
Runoff	20.028	95.403	70.010	125.436	321.546	426.514	273.629	227.958	78.589	24.451	14.429	10.299	1688.291	MCM

Momentary Peak 740.00 CMS, at 9.25 M (MSL), at 9.00 Hours, on Aug 10, 1996

Runoff Yield 99.32 Liters/Second/Square KM, Momentary Peak Yield 1372.913 Liters/Second/Square KM

SUSPENDED SEDIMENT STATIONS

1. Ping River at Nawarat Bridge, Chiang Mai (P.1)
2. Mae Taeng River at Mae Taeng, Chiang Mai (P.4A)
3. Ping River at Ban Huai Yang, Kamphaeng Phet (P.7A)
4. Khlong Khlung at Ban Pand Wai, Kamphaeng Phet (P.35)
5. Wang River at Setu Wari Bridge, Lampang (W.1C)
6. Wang River at Ban Wang Man, Tak (W.4A)
7. Nam Mae Soi at Ban Nong Nao, Lampang (W.17)
8. Nam Mae Tui at Ban Tha Lo, Lampang (W.20)
9. Nan River at Ban Bun Nak, Nan (N.13A)
10. Nam Mae Ing at Ban Nam Ing, Chiang Rai (I.14)
11. Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct.5A)
12. Lam Kong at Ban Wang Tha Di, Phetchabun (S.12)
13. Lam Sonthi at Ban Tha Yiam, Lop Buri (S.13)
14. Lam Sonthi at Ban Na Som, Lop Buri (S.14)
15. Lam Phaya Klang at Ban Pang Hu Sua, Lop Buri (S.31)
16. Huai Bang I at Ban Non Yang, Muk Dahan (Kh.79)
17. Lam Nam Phong at Ban Pha Nok Khao, Loei (E.29)
18. Nam Yang at Ban Kaeng Yao, Kalasin (E.54)
19. Lam Phra Phloeng at Ban Wang Takhian Thong, Nakhon Ratchasima (M.145)
20. Chanthaburi River at Ban Puk, Chanthaburi (Z.13)
21. Khlong Yai at Ban Pak Phraek, Rayong (Z.15)
22. Khlong Phlo at Ban Chamkho, Rayong (Z.18)
23. Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.21)
24. Khlong Samo Pun at Haew Narok, Prachin Buri (Ny.4)
25. Huai Tha Khoei at Ban Kha, Ratchaburi (K.25A)
26. Khwae Yai River at Ban Tha Manao, Kanchanaburi (K.36)
27. Khwae Noi River at Ban Wang Yen, Kanchanaburi (K.37)
28. Huai Phak at Ban Kariang, Phetchaburi (B.8)
29. Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)
30. Khlong Chumphon at Wang Phai, Chumphon (X.53A)
31. Khlong Tha Sae at Tha Sae, Chumphon (X.64)
32. Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)

33. Khlong Tan Yong Mat at Rangae, Narathiwat (X.73)

34. Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)

35. Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)

36. Kolok River at Sungai Kolok, Narathiwat (X.119A)

37. Khlong Waeng at Waeng, Narathiwat (X.121)

38. Khlong Palian at Ban Lam Khlaeng (2), Trang (X.139)

WATER YEAR 1996

PING RIVER BASIN

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

Location — Lat. 18°47'09" N., Long. 99°00'29" E., on left bank about 100 meters downstream from Nawarat Bridge, Amphoe Muang, Chiang Mai.

Drainage Area — 6,355 sq.km.

Method of Sampling — Depth Integrating

Instrument Used — US.DH - 59

Period of Available Records — 1993 - Cont'd

Actual Measurement — 1993 - Cont'd

Remarks — Continued Sediment Station

Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:37:12.05 LQS/LQS02D/1

Station - Nawarat Bridge, A. Muang, Chiang Mai, (P.1)
Stream - Ping
River - Ping
River System - Ping River

Royal Irrigation Departmen
Thailand
Hydrology Division 30049

$QS = 1.4203\ QW^{1.55295}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.57	168.98	168.98	483.46	746.84	2152.33	1014.07	279.43	279.43	52.96	38.85	34.50	
2	107.32	182.47	210.53	460.79	656.53	2962.03	777.86	438.52	279.43	52.96	63.21	63.21	
3	143.13	182.47	168.98	438.52	529.93	5800.65	686.17	577.91	297.72	63.21	68.57	48.08	
4	85.56	261.56	210.53	395.16	483.46	11509.48	577.91	602.45	297.72	63.21	63.21	34.50	
5	68.57	529.93	227.10	374.90	976.55	12212.74	577.91	716.28	297.72	58.00	52.96	38.85	
6	74.08	746.84	355.01	416.64	1849.25	8040.96	746.84	1331.81	297.72	63.21	48.08	43.38	
7	85.56	483.46	1249.51	529.93	1812.53	5096.95	746.84	2430.70	297.72	63.21	43.38	43.38	
8	79.75	279.43	841.23	602.45	1129.60	3395.05	777.86	1470.47	316.42	63.21	34.50	43.38	
9	52.96	227.10	976.55	841.23	686.17	2822.41	1129.60	976.55	335.52	68.57	34.50	48.08	
10	63.21	168.98	1423.70	577.91	438.52	2430.70	1565.59	746.84	279.43	63.21	48.08	43.38	
11	155.87	155.87	777.86	577.91	279.43	2309.92	2868.69	602.45	244.12	58.00	38.85	38.85	
12	196.32	130.79	553.74	483.46	279.43	2349.94	3345.91	529.93	244.12	58.00	43.38	30.07	
13	210.53	118.85	686.17	395.16	355.01	1849.25	2191.36	483.46	244.12	63.21	48.08	32.26	
14	210.53	118.85	1960.99	483.46	1377.48	1129.60	1470.47	438.52	244.12	58.00	52.96	34.50	
15	210.53	107.32	1377.48	627.35	1886.24	1209.06	1090.60	438.52	210.53	48.08	58.00	34.50	
16	244.12	118.85	1960.99	577.91	1470.47	1517.76	777.86	438.52	196.32	43.38	58.00	34.50	
17	297.72	155.87	1998.75	577.91	1377.48	1517.76	627.35	438.52	182.47	48.08	58.00	52.96	
18	335.52	118.85	1565.59	553.74	1129.60	1290.42	506.51	395.16	168.98	52.96	52.96	63.21	
19	316.42	130.79	1377.48	483.46	906.34	1377.48	416.64	374.90	155.87	52.96	43.38	38.85	
20	297.72	118.85	1052.09	460.79	1377.48	1423.70	686.17	355.01	155.87	48.08	38.85	38.85	
21	316.42	107.32	976.55	553.74	2230.63	939.54	873.57	355.01	107.32	43.38	38.85	43.38	
22	374.90	107.32	777.86	627.35	3104.03	906.34	716.28	438.52	74.08	43.38	38.85	43.38	
23	438.52	196.32	602.45	777.86	2471.44	939.54	553.74	656.53	63.21	43.38	38.85	38.85	
24	355.01	316.42	577.91	656.53	2191.36	939.54	460.79	656.53	63.21	43.38	38.85	68.57	
25	279.43	506.51	577.91	374.90	2962.03	1129.60	416.64	602.45	63.21	52.96	32.26	68.57	
26	244.12	577.91	602.45	227.10	4538.95	1565.59	374.90	355.01	68.57	68.57	27.94	38.85	
27	143.13	297.72	686.17	227.10	5268.80	2349.94	395.16	316.42	63.21	74.08	34.50	43.38	
28	196.32	227.10	746.84	395.16	4538.95	2553.65	355.01	297.72	63.21	48.08	32.26	48.08	
29	261.56	130.79	686.17	809.32	3200.00	2075.03	335.52	297.72	63.21	34.50		58.00	
30	210.53	79.75	553.74	841.23	2512.43	1377.48	297.72	279.43	58.00	38.85		52.96	
31		107.32		746.84	1998.75		279.43		58.00	38.85		58.00	
Total	6123.93	7160.59	25931.31	16579.27	54765.71	87174.45	27640.97	18321.29	5770.58	1671.91	1270.16	1401.31	253811.48 Ton
Mean	204.13	230.99	864.38	534.82	1766.64	2905.81	891.64	610.71	186.15	53.93	45.36	45.20	
Max	438.52	746.84	1998.75	841.23	5268.80	12212.74	3345.91	2430.70	335.52	74.08	68.57	68.57	12212.74
Min	52.96	79.75	168.98	227.10	279.43	906.34	279.43	279.43	58.00	34.50	27.94	30.07	27.94

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1992 - Cont'd
Actual Measurement	1992 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:37:18.99 LQS/LQS02D/12

Station - Mae Taeng, Mae Taeng, Chiang Mai, (P.4A)
Stream - Mae Taeng
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division 300496

$QS = 3.9289\ QW^{1.55129}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.89	15.28	103.74	32.45	536.02	1334.85	358.24	89.48	252.56	10.63	1.97	0.95	
2	2.57	150.81	145.28	20.49	471.73	2660.32	315.27	394.00	245.11	8.95	1.97	0.95	
3	2.89	134.43	162.10	17.30	181.70	7051.33	237.73	291.00	245.11	7.37	1.69	0.95	
4	2.89	536.02	71.67	16.28	223.23	7288.62	162.10	340.82	245.11	7.37	1.69	0.95	
5	2.89	802.68	71.67	17.30	2057.80	4845.14	216.10	481.79	237.73	7.37	1.69	0.95	
6	2.89	616.72	315.27	18.34	1719.92	2943.49	162.10	1500.82	237.73	7.37	1.69	0.95	
7	2.57	252.56	367.07	20.49	817.66	1907.54	195.20	1214.98	237.73	6.62	1.69	0.95	
8	2.26	181.70	403.44	22.73	461.74	1882.89	323.71	787.80	267.71	6.62	1.69	0.95	
9	1.69	162.10	536.02	28.66	306.91	1629.76	323.71	703.67	245.11	5.90	1.69	0.95	
10	1.69	113.66	481.79	36.40	150.81	1564.82	691.00	592.99	237.73	5.21	1.42	0.95	
11	1.69	26.23	323.71	18.34	84.90	1697.22	1025.17	451.83	223.23	5.21	0.95	0.95	
12	1.69	20.49	237.73	16.28	26.23	1719.92	616.72	432.24	202.08	4.55	0.95	0.74	
13	1.69	18.34	422.56	16.28	332.22	802.68	471.73	422.56	195.20	4.55	0.95	0.74	
14	1.97	16.28	729.25	16.28	2108.78	394.00	403.44	394.00	188.41	4.55	0.95	0.74	
15	2.26	16.28	894.46	15.28	1214.98	349.49	267.71	332.22	181.70	3.93	0.95	0.74	
16	2.26	23.87	1197.26	14.30	1127.28	384.94	162.10	275.39	181.70	3.22	0.95	0.74	
17	2.26	89.48	832.75	14.30	1179.62	481.79	139.82	267.71	175.08	2.57	0.95	0.74	
18	2.26	98.91	691.00	12.42	691.00	306.91	118.74	283.16	156.42	2.26	0.88	0.74	
19	2.26	98.91	581.43	15.28	716.42	245.11	202.08	323.71	156.42	1.97	0.95	0.74	
20	2.26	84.90	502.82	33.75	1697.22	195.20	237.73	306.91	113.66	1.69	0.95	0.74	
21	2.26	75.99	558.56	28.66	2382.13	162.10	275.39	298.92	16.28	1.42	1.18	0.74	
22	5.90	89.48	461.74	16.28	2057.80	367.07	139.82	298.92	15.28	1.18	1.18	0.74	
23	2.26	267.71	394.00	31.17	1274.42	216.10	113.66	291.00	14.30	0.95	1.18	0.74	
24	2.26	188.41	306.91	33.75	1719.92	156.42	29.90	267.71	12.42	0.95	1.18	0.74	
25	2.26	306.91	283.16	15.28	2834.69	267.71	28.66	267.71	11.51	0.88	1.18	0.74	
26	7.37	403.44	267.71	19.41	3538.96	910.45	28.66	252.56	11.51	0.88	0.95	0.74	
27	21.60	252.56	283.16	39.12	3715.56	1092.86	32.45	252.56	11.51	1.18	0.88	0.74	
28	33.75	103.74	129.12	260.09	2162.50	1058.82	53.76	252.56	11.51	1.42	0.88	0.74	
29	44.78	50.70	113.66	471.73	1355.22	604.63	32.45	252.56	11.51	1.42		0.74	
30	19.41	75.99	60.06	323.71	942.73	432.24	32.45	252.56	11.51	1.69		0.74	
31		84.90		422.56	729.25		29.90		10.63	1.69		0.74	
Total	187.68	5359.48	11929.10	2064.71	38819.35	44954.42	7427.50	12574.14	4363.50	121.57	35.23	25.25	127861.94 Ton
Mean	6.26	172.89	397.64	66.60	1252.24	1498.48	239.60	419.14	140.76	3.92	1.26	0.81	
Max	44.78	802.68	1197.26	471.73	3715.56	7288.62	1025.17	1500.82	267.71	10.63	1.97	0.95	7288.62
Min	1.69	15.28	60.06	12.42	26.23	156.42	28.66	89.48	10.63	0.88	0.88	0.74	0.74

WATER YEAR 1995

PING RIVER BASIN

Ping River at Ban Huai Yang, 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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1995 - Cont'd
Actual Measurement	1995 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:37:28.71 LQS/LQS02D/12

Station - Ban Huai Yang, A. Muang, Kamphaeng Phet, (P.7A)
Stream - Ping
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division 230897

$QS = 0.2617\ QW^{1.39254}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	909.58	984.46	909.58	490.53	208.55	1683.34	2176.38	526.26	675.30	184.52	773.29	840.66	
2	806.78	840.66	1022.51	361.19	622.51	1283.05	2840.38	499.40	526.26	40.56	829.32	762.22	
3	1467.32	376.39	806.78	384.05	840.66	1283.05	3807.67	553.52	490.53	105.31	852.04	622.51	
4	1499.81	1075.03	718.39	571.90	806.78	1805.43	2956.10	795.57	376.39	316.69	773.29	465.11	
5	997.10	1009.78	490.53	654.04	526.26	2547.65	2462.66	612.10	465.11	346.18	773.29	921.94	
6	1075.03	762.22	751.20	622.51	331.34	2725.97	2063.05	729.28	440.07	280.90	897.99	1035.29	
7	1142.18	465.11	1155.75	508.31	448.37	2378.49	1420.19	946.81	240.34	196.20	751.20	762.22	
8	818.03	773.29	1142.18	338.74	601.73	2081.82	1499.81	1009.78	571.90	273.89	675.30	773.29	
9	818.03	852.04	971.86	346.18	795.57	1581.92	1717.98	946.81	526.26	309.44	526.26	718.39	
10	1211.64	675.30	601.73	431.81	1088.36	1648.91	1598.48	909.58	499.40	302.23	407.30	591.42	
11	1225.83	591.42	331.34	581.16	897.99	1896.33	1404.58	707.55	407.30	266.93	490.53	562.69	
12	1155.75	696.75	384.05	654.04	664.64	1859.82	1327.25	686.00	384.05	266.93	654.04	718.39	
13	1358.03	863.46	622.51	482.02	384.05	1565.40	1268.68	959.31	482.02	227.48	784.41	707.55	
14	654.04	448.37	946.81	391.76	391.76	1128.66	1142.18	840.66	535.31	184.52	696.75	729.28	
15	675.30	632.97	643.48	323.99	465.11	1297.47	1254.35	751.20	448.37	465.11	773.29	740.21	
16	1225.83	490.53	591.42	295.07	664.64	971.86	1358.03	707.55	266.93	407.30	718.39	718.39	
17	1197.50	686.00	423.59	473.54	729.28	1211.64	1297.47	632.97	361.19	490.53	654.04	729.28	
18	1297.47	571.90	338.74	601.73	751.20	2007.04	1254.35	490.53	346.18	544.39	482.02	675.30	
19	1516.13	773.29	696.75	553.52	526.26	2007.04	1075.03	473.54	368.77	473.54	806.78	795.57	
20	1896.33	971.86	897.99	591.42	423.59	2081.82	840.66	473.54	346.18	423.59	762.22	852.04	
21	1404.58	707.55	806.78	499.40	517.27	2063.05	562.69	456.72	399.51	456.72	762.22	773.29	
22	874.93	535.31	863.46	309.44	456.72	1914.65	535.31	368.77	368.77	376.39	686.00	718.39	
23	622.51	632.97	874.93	302.23	795.57	2138.41	664.64	415.42	266.93	58.42	686.00	654.04	
24	818.03	581.16	571.90	448.37	863.46	3215.20	526.26	423.59	227.48	632.97	571.90	601.73	
25	946.81	632.97	407.30	399.51	632.97	7646.96	448.37	415.42	105.31	707.55	581.16	707.55	
26	840.66	643.48	1183.41	499.40	415.42	7285.64	490.53	553.52	190.33	654.04	762.22	729.28	
27	1211.64	654.04	1297.47	499.40	581.16	4596.12	456.72	423.59	190.33	376.39	818.03	740.21	
28	1009.78	391.76	1075.03	508.31	1197.50	2358.06	302.23	1389.01	190.33	440.07	718.39	707.55	
29	654.04	696.75	984.46	654.04	1914.65	1283.05	227.48	795.57	190.33	632.97		482.02	
30	643.48	654.04	643.48	240.34	2007.04	874.93	214.81	874.93	190.33	526.26		415.42	
31		806.78		173.05	1878.05		246.85		178.76	707.55		517.27	
Total	31974.17	21477.64	23155.41	14191.00	23428.46	68422.78	39441.18	20368.50	11256.27	11675.57	19667.67	21768.50	306827.13 Ton
Mean	1065.81	692.83	771.85	457.77	755.76	2280.76	1272.30	678.95	363.11	376.63	702.42	702.21	
Max	1896.33	1075.03	1297.47	654.04	2007.04	7646.96	3807.67	1389.01	675.30	707.55	897.99	1035.29	7646.96
Min	622.51	376.39	331.34	173.05	208.55	874.93	214.81	368.77	105.31	40.56	407.30	415.42	40.56

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1988 - Cont'd
Actual Measurement	1988 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1988 - 1996

RID Computer Center, Processing : 26-AUG-1998 14:37:36.56 LQS/LQS02D/12

Station - Ban Pang Wai, Khlong Khlung, Kamphaeng Phet, (P.35)
Stream - Khlong Khlung
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division 230897

$$QS = 4.2784\ QW^{1.29518}$$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.22	6.31	60.18	23.95	20.88	283.80	1505.88	207.18	69.44	16.23	8.18	4.84	
2	1.10	5.71	45.45	20.88	17.37	427.69	2173.56	490.89	67.88	15.12	7.23	4.56	
3	0.90	5.71	53.19	17.98	16.23	549.97	3034.84	2755.88	62.21	13.30	6.62	4.56	
4	0.90	726.67	44.51	23.29	11.88	777.06	1851.53	1785.50	59.17	12.58	6.62	4.56	
5	0.90	439.60	160.22	14.02	10.50	3283.71	1278.14	944.04	57.16	12.58	10.50	4.56	
6	0.90	223.70	134.17	8.83	14.02	1569.44	972.57	652.56	53.19	12.58	7.55	4.56	
7	0.90	100.61	71.02	6.92	28.30	792.51	764.39	477.38	50.26	15.71	6.62	3.47	
8	0.90	173.63	247.87	5.42	22.08	481.93	621.37	647.34	48.32	14.60	6.01	3.47	
9	0.82	162.12	388.55	5.13	14.02	360.15	689.39	886.63	47.36	15.12	6.01	3.47	
10	0.82	87.17	177.51	50.26	21.51	280.92	626.54	486.33	45.45	14.60	7.23	3.47	
11	0.82	47.36	119.77	55.17	27.45	240.63	513.38	339.74	42.63	14.60	7.23	3.47	
12	0.82	34.40	59.17	66.32	66.32	392.42	435.62	301.21	42.63	14.02	6.62	3.47	
13	0.82	162.12	87.17	48.32	137.83	310.01	400.20	415.86	39.84	13.30	6.31	3.47	
14	0.82	135.99	169.78	98.90	63.23	353.31	326.28	411.93	38.01	13.30	6.01	3.47	
15	0.82	79.00	193.20	272.32	280.92	894.67	286.68	356.80	33.51	10.84	6.01	3.20	
16	0.82	31.75	199.17	540.77	298.29	508.93	252.78	266.62	35.30	19.69	6.01	3.20	
17	0.90	20.32	218.93	332.99	152.67	310.01	223.70	205.17	32.63	11.53	6.01	2.95	
18	0.90	16.23	211.89	195.19	64.77	247.87	193.20	175.57	30.88	8.83	5.71	2.95	
19	0.90	17.98	226.16	147.06	32.63	207.18	177.51	169.78	30.01	9.82	5.42	2.70	
20	0.90	43.56	221.38	98.90	24.52	179.45	183.36	156.44	28.30	12.94	5.42	2.70	
21	0.82	47.36	147.06	62.21	47.36	171.70	223.70	139.66	27.45	12.23	6.62	2.45	
22	0.71	92.16	93.83	38.01	160.22	195.19	187.28	112.71	25.77	10.16	6.01	2.45	
23	0.64	214.19	62.21	27.45	147.06	191.23	154.55	112.71	22.72	10.84	5.71	2.21	
24	0.53	181.40	71.02	18.52	110.97	233.44	148.93	98.90	22.72	9.82	5.42	1.74	
25	1.97	197.18	326.28	21.51	167.86	411.93	447.58	98.90	22.08	9.49	5.42	1.74	
26	1.31	114.47	228.49	23.29	739.20	839.27	664.79	92.16	21.51	9.49	5.42	1.74	
27	1.43	57.16	148.93	48.32	1290.74	902.55	427.69	88.82	17.98	9.16	5.13	1.65	
28	1.97	34.40	83.88	67.88	870.78	1118.05	250.39	83.88	15.12	9.16	5.13	1.97	
29	3.20	30.01	44.51	54.18	616.20	2790.53	193.20	77.39	13.66	10.50		2.95	
30	3.20	23.29	33.51	43.56	380.82	2476.13	165.94	71.02	14.02	9.16		3.20	
31		82.24		27.45	252.78		165.94		16.23	9.16		3.20	
Total	33.66	3593.80	4329.01	2465.00	6109.41	21781.68	19540.91	13109.00	1133.44	380.46	178.18	98.40	72752.95 Ton
Mean	1.12	115.93	144.30	79.52	197.08	726.06	630.35	436.97	36.56	12.27	6.36	3.17	
Max	3.20	726.67	388.55	540.77	1290.74	3283.71	3034.84	2755.88	69.44	19.69	10.50	4.84	3283.71
Min	0.53	5.71	33.51	5.13	10.50	171.70	148.93	71.02	13.66	8.83	5.13	1.65	0.53

WATER YEAR 1996

WANG RIVER BASIN

Wang River at Setu Wari Bridge, Lampang (W.1C)

Location	Lat. 18°-17′-51″ N., Long. 99°-30′-56″ E., on left bank at Setu Wari Bridge about 3 kilometers upstream from station W.1B, Amphoe Muang, Lampang.
Drainage Area	3,478 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1994 - Cont'd
Actual Measurement	1994 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:37:44.81 LQS/LQS02D/1

Station - Setuwaree Bridge, Muang, Lampang, (W.1C)
Stream - Wang
River - Wang
River System - Wang River

Royal Irrigation Departmen
Thailand
Hydrology Division 30049

$QS = 4.7942\ QW^{1.30883}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.59	9.23	7.45	57.01	78.67	1568.42	3001.32	144.31	149.09	26.66	10.35	16.32	
2	17.59	7.45	8.15	57.01	78.67	1830.09	2754.35	233.96	158.76	35.73	9.01	22.24	
3	16.32	22.24	9.23	48.50	43.05	3261.96	1110.66	189.06	168.58	31.17	10.05	24.43	
4	22.24	17.59	10.35	43.05	57.01	4740.06	419.25	173.68	134.99	16.32	10.35	28.85	
5	22.24	16.32	8.15	54.10	189.06	3203.60	297.85	277.57	107.97	17.59	10.35	31.17	
6	17.59	16.32	8.15	65.71	189.06	2628.60	264.24	291.05	100.44	22.24	9.60	15.08	
7	17.59	16.32	26.66	54.10	163.65	1830.09	239.95	395.09	93.05	20.19	8.80	11.49	
8	17.59	15.08	57.01	33.43	149.09	1038.65	252.02	460.25	93.05	12.66	8.80	8.15	
9	17.59	11.49	54.10	31.17	168.58	599.15	347.81	628.72	85.79	12.66	8.80	6.76	
10	17.59	10.35	57.01	33.43	130.32	427.38	998.66	560.25	75.17	10.35	8.80	6.76	
11	16.32	10.35	59.84	45.81	104.19	468.56	3116.53	443.74	65.71	10.35	8.51	7.45	
12	16.32	13.86	33.43	62.81	104.19	767.89	4660.38	277.57	57.01	8.15	5.43	12.66	
13	16.32	38.17	17.59	78.67	149.09	503.07	5415.09	355.59	57.01	7.45	11.49	12.66	
14	16.32	15.08	22.24	96.73	245.97	531.48	5282.01	194.15	57.01	6.76	18.88	13.86	
15	16.32	10.35	16.32	277.57	451.98	1296.42	2729.09	189.06	38.17	6.09	20.19	16.32	
16	17.59	9.23	33.43	199.28	733.77	1110.66	1011.95	264.24	31.17	8.15	22.24	26.66	
17	18.88	6.09	18.71	100.44	884.17	668.67	451.98	304.68	24.43	15.08	18.88	22.24	
18	17.59	5.43	29.33	65.71	779.34	599.15	291.05	284.29	24.43	16.32	26.66	22.24	
19	16.32	4.79	28.47	121.37	638.66	678.75	239.95	189.06	28.85	24.43	26.66	15.08	
20	13.86	4.79	28.94	130.32	427.38	550.62	228.01	258.11	26.66	28.85	13.86	9.23	
21	17.59	4.79	28.47	130.32	589.36	628.72	216.22	264.24	24.43	35.73	9.23	6.76	
22	18.88	4.79	29.33	134.99	802.37	521.97	194.15	371.28	24.43	33.43	7.45	6.76	
23	31.17	5.43	31.17	116.82	959.04	485.28	163.65	403.11	24.43	12.66	6.76	8.15	
24	22.24	4.79	29.33	93.05	1515.73	790.83	153.76	468.56	31.17	8.15	7.45	10.35	
25	16.32	5.43	25.82	89.40	3001.32	688.86	149.09	476.90	24.43	6.76	8.15	12.66	
26	13.86	6.09	12.90	82.21	5822.32	959.04	158.76	379.17	18.88	7.45	7.45	13.86	
27	13.86	6.76	7.52	85.79	5963.53	1199.92	153.76	264.24	18.88	3.18	8.15	18.88	
28	13.86	6.76	4.86	100.44	4349.56	860.61	144.31	258.11	18.88	7.80	13.86	43.05	
29	13.86	5.43	4.30	116.82	3671.27	1184.93	139.56	216.22	18.88	7.80		51.23	
30	12.66	5.43	62.81	85.79	2972.68	2729.09	134.99	107.97	17.59	7.80		17.59	
31		6.09		85.79	1052.07		125.83		18.88	8.08		16.32	
Total	524.07	322.32	771.07	2777.64	36465.15	38352.52	34846.23	9324.23	1818.22	476.04	336.21	535.26	126548.97 Ton
Mean	17.47	10.40	25.70	89.60	1176.30	1278.42	1124.07	310.81	58.65	15.36	12.01	17.27	
Max	31.17	38.17	62.81	277.57	5963.53	4740.06	5415.09	628.72	168.58	35.73	26.66	51.23	5963.53
Min	12.66	4.79	4.30	31.17	43.05	427.38	125.83	107.97	17.59	3.18	5.43	6.76	3.18

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:37:52.43 LQS/LQS02D/12

Station - Ban Wang Man, Sam Ngao, Tak, (W.4A)
Stream - Wang
River - Wang
River System - Wang River

Royal Irrigation Department
Thailand
Hydrology Division 220897

$QS = 3.6497\ QW^{1.18384}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	58.38	56.39	18.11	168.80	97.22	2033.81	2389.55	289.33	129.61	54.41	22.34	25.29	
2	58.38	48.55	18.84	141.73	98.66	1859.13	2180.52	286.78	126.61	21.65	23.78	13.40	
3	54.41	50.49	18.84	122.12	95.99	1902.43	2060.37	393.29	129.61	18.84	19.56	12.71	
4	46.62	54.41	22.34	108.83	92.20	2153.73	1826.75	633.18	128.11	20.97	29.66	16.08	
5	40.90	88.50	25.29	93.49	94.70	2234.25	1466.91	791.38	128.11	37.15	35.30	23.09	
6	37.15	88.50	27.46	88.50	97.22	2403.75	1118.79	804.05	128.11	47.58	33.47	26.75	
7	33.47	76.17	31.22	82.30	98.66	2474.94	1392.98	758.12	123.62	63.40	35.30	26.75	
8	31.95	59.38	57.38	86.03	119.15	2489.21	1291.56	730.50	117.67	50.49	42.79	28.95	
9	31.22	49.52	55.40	84.76	131.12	2432.19	1372.56	722.63	113.23	46.62	44.70	36.23	
10	31.22	52.45	72.58	79.85	131.12	1924.13	1714.44	703.03	107.36	46.62	43.74	38.09	
11	30.44	50.49	74.99	72.58	138.68	1359.01	1443.91	644.74	101.55	44.70	38.09	31.95	
12	28.17	48.55	69.50	66.44	131.12	1129.31	1622.17	625.49	101.55	43.74	31.95	28.95	
13	28.95	45.66	70.52	60.38	120.63	968.04	1980.87	574.44	98.66	41.84	28.17	19.56	
14	31.22	42.79	68.47	62.39	105.91	881.30	2180.52	532.04	94.70	38.09	23.09	8.29	
15	40.90	42.79	89.71	77.42	105.91	1092.56	2262.37	440.63	92.20	28.95	20.97	12.09	
16	39.96	40.90	92.20	77.42	105.91	1225.19	2262.37	427.92	90.99	20.97	23.78	14.09	
17	33.47	45.66	94.70	83.49	117.67	1178.42	2113.64	387.04	84.76	27.46	27.46	14.73	
18	41.84	50.49	100.10	97.22	207.68	1622.17	1489.96	352.96	77.42	38.09	25.29	15.43	
19	51.47	44.70	111.76	120.63	239.19	1848.33	1045.59	328.06	72.58	31.95	23.78	15.43	
20	52.45	40.90	111.76	116.18	302.16	1551.70	762.08	322.85	71.55	23.09	25.99	16.79	
21	38.09	34.38	162.94	105.91	356.04	1420.98	633.18	299.58	67.45	17.45	25.99	17.45	
22	31.95	38.09	214.33	98.66	412.12	1352.29	570.84	256.41	65.42	34.38	25.29	19.56	
23	30.44	31.95	221.10	103.00	466.21	1219.33	511.03	190.56	49.52	35.30	25.29	20.24	
24	22.34	29.66	216.53	103.00	427.92	1359.01	479.72	178.64	65.42	39.96	16.79	17.45	
25	25.29	26.75	209.87	103.00	521.47	2086.98	447.00	176.66	60.38	53.43	7.66	11.47	
26	26.75	24.53	227.82	101.55	683.51	2389.55	421.59	180.62	58.38	33.47	16.79	12.71	
27	41.84	23.78	276.59	94.70	901.59	2503.50	390.16	184.58	56.39	28.17	18.11	12.71	
28	52.45	22.34	291.89	93.49	1742.33	2553.61	374.59	172.72	41.84	49.52	18.84	25.99	
29	47.58	21.65	291.89	88.50	2318.76	2571.54	362.21	164.89	61.38	40.90		25.99	
30	77.42	18.84	209.87	87.23	2375.37	2517.80	335.89	141.73	39.96	31.22		8.93	
31		18.84		93.49	2234.25		309.89		44.70	32.68		8.93	
Total	1196.72	1368.10	3554.00	2963.09	15070.47	54738.19	38814.02	12694.85	2728.84	1143.09	753.97	606.08	135631.42 Ton
Mean	39.89	44.13	118.47	95.58	486.14	1824.61	1252.07	423.16	88.03	36.87	26.93	19.55	
Max	77.42	88.50	291.89	168.80	2375.37	2571.54	2389.55	804.05	129.61	63.40	44.70	38.09	2571.54
Min	22.34	18.84	18.11	60.38	92.20	881.30	309.89	141.73	39.96	17.45	7.66	8.29	7.66

WATER YEAR 1996

WANG RIVER BASIN

Nam Mae Soi at Ban Nong Nao, 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 Nao, Amphoe Chae Hom, Lampang
Drainage Area	619 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:22:04.44 LQS/LQS02D/12

Station - Ban Nong Nao, A. Chae Hom, Lampang, (W.17)
Stream - Nam Mae Soi
River - Wang
River System - Wang River

Royal Irrigation Department
Thailand
Hydrology Division 300496
1.36768
$QS = 2.4249\ QW$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.26	18.11	9.24	10.01	14.62	603.85	77.14	90.28	28.44	14.19	5.58	6.95	
2	0.94	14.62	7.04	8.49	13.51	418.32	62.42	400.54	28.44	14.19	5.58	6.26	
3	0.81	14.62	5.67	7.04	12.41	193.66	51.95	200.15	26.97	14.19	5.58	4.30	
4	0.58	20.54	28.24	4.07	38.64	200.15	40.82	130.18	26.97	13.09	4.93	3.69	
5	0.47	32.30	24.34	3.62	40.82	146.71	43.03	135.63	26.97	12.00	4.93	3.11	
6	0.69	28.24	32.30	5.01	36.49	114.77	66.02	181.28	25.52	10.95	4.30	3.11	
7	3.69	18.11	85.58	4.07	24.34	73.38	114.77	135.63	25.52	9.91	4.30	3.11	
8	4.93	15.76	254.05	3.62	14.62	40.82	409.07	114.77	25.52	9.91	3.69	2.83	
9	4.93	13.51	77.14	3.18	11.60	34.38	418.32	119.85	25.52	9.91	3.11	2.83	
10	4.30	11.60	34.38	3.18	9.24	26.27	798.40	119.85	21.31	9.91	3.11	2.83	
11	4.30	11.60	26.27	2.76	7.04	175.38	651.11	99.89	21.31	9.91	3.11	2.83	
12	4.30	10.01	15.76	2.76	18.11	55.39	427.62	41.31	21.31	9.91	3.11	2.83	
13	4.30	9.24	18.11	2.76	45.27	30.25	254.05	39.55	21.31	9.91	3.11	2.83	
14	4.30	8.49	43.03	2.76	36.49	23.06	181.28	56.54	20.07	9.91	3.11	3.11	
15	4.30	7.04	104.78	6.34	18.11	30.25	146.71	44.91	18.86	9.91	3.11	2.83	
16	11.60	7.04	158.01	3.18	38.64	34.38	130.18	37.80	17.66	9.15	3.11	2.52	
17	8.49	7.76	158.01	4.07	66.02	51.95	119.85	36.08	16.48	9.15	3.11	2.23	
18	6.34	11.60	80.95	3.62	28.24	38.64	104.78	36.08	16.48	8.40	3.11	1.97	
19	4.53	11.60	38.64	4.53	38.64	34.38	95.05	32.96	16.48	8.40	3.11	1.73	
20	4.07	9.24	30.25	6.34	40.82	30.25	119.85	34.51	15.33	8.40	3.11	1.73	
21	3.62	10.80	24.34	6.34	69.68	26.27	135.63	32.96	15.33	8.40	3.11	1.23	
22	99.89	10.80	24.34	6.34	104.78	58.87	114.77	32.96	15.33	8.40	3.11	1.23	
23	90.28	9.24	23.06	5.67	80.95	124.99	104.78	32.96	15.33	8.40	3.11	1.23	
24	24.34	8.49	23.06	5.67	158.01	73.38	90.28	32.96	14.19	7.67	3.11	0.99	
25	11.60	38.64	21.79	5.01	573.36	95.05	80.95	32.96	14.19	7.67	7.67	0.99	
26	15.76	58.87	19.32	5.01	593.64	219.96	80.95	32.96	14.19	7.67	8.40	1.23	
27	18.11	21.79	21.79	8.49	418.32	484.53	80.95	31.43	14.19	7.67	8.40	1.73	
28	66.02	13.51	69.68	13.51	303.91	400.54	80.95	29.93	14.19	6.95	7.67	14.19	
29	34.38	10.80	24.34	26.27	114.77	213.30	73.38	29.93	14.19	6.95		28.44	
30	23.06	9.24	13.51	18.11	77.14	109.74	73.38	29.93	14.19	6.26		16.48	
31		10.80		18.11	62.42		73.38		14.19	6.26		10.95	
Total	466.19	484.01	1497.02	209.94	3110.65	4162.87	5301.82	2406.77	605.98	293.60	120.79	142.32	18801.96 Ton
Mean	15.54	15.61	49.90	6.77	100.34	138.76	171.03	80.23	19.55	9.47	4.31	4.59	
Max	99.89	58.87	254.05	26.27	593.64	603.85	798.40	400.54	28.44	14.19	8.40	28.44	798.40
Min	0.47	7.04	5.67	2.76	7.04	23.06	40.82	29.93	14.19	6.26	3.11	0.99	0.47

WATER YEAR 1996

WANG RIVER BASIN

Nam Mae Tui at Ban Tha Lo, Lampang (W.20)

Location	Lat. 18°-18'-35" N., Long. 99°-27'-29" E., on left bank at the bridge of Lampang - Hang Chat Highway, Amphoe Muang, Lampang.
Drainage Area	1740 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US. - 49
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 20-AUG-1998 09:21:39.97 LQS/LQS02D/12

Station - Ban Tha Lo, A. Muang, Lampang, (W.20)
Stream - Mae Tui
River - Mae Tui
River System - Wang River

Royal Irrigation Department
Thailand
Hydrology Division 300496

$QS = 3.7455\ QW^{1.33693}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.75	0.17	17.59	12.89	156.87	87.96	11.01	10.10	3.06	1.29	1.89	
2	0.56	1.29	0.22	14.34	13.85	230.78	62.51	58.37	9.65	3.65	3.35	2.32	
3	0.68	1.68	0.38	9.65	12.41	271.07	64.65	104.29	8.77	3.95	5.87	2.78	
4	0.56	2.32	0.27	6.27	10.55	404.72	105.68	128.56	8.77	4.25	4.25	4.25	
5	0.56	2.78	0.17	4.57	21.22	764.78	92.76	141.28	7.91	4.25	8.77	12.89	
6	0.56	4.25	0.17	2.55	42.29	1758.05	104.29	144.54	7.91	4.57	11.47	4.57	
7	0.56	3.65	10.55	1.48	100.25	917.57	211.05	133.22	7.91	3.06	3.95	1.48	
8	0.62	3.06	3.95	1.10	90.29	718.46	208.98	94.00	7.91	4.89	0.68	0.62	
9	0.38	2.78	1.48	0.75	59.47	125.64	313.09	89.07	7.91	4.89	0.68	0.44	
10	0.32	2.55	2.78	0.75	32.12	100.25	1103.02	87.96	6.27	4.25	0.56	0.44	
11	0.32	2.32	16.85	0.75	11.94	74.27	1064.17	83.33	7.08	2.78	0.56	0.44	
12	0.27	2.32	9.21	0.68	12.41	100.25	607.21	55.39	8.34	2.11	0.62	0.62	
13	0.27	2.78	1.68	1.48	15.55	74.27	319.22	53.42	11.01	2.32	0.62	0.62	
14	0.17	2.32	40.46	3.65	28.06	65.68	202.79	46.68	7.49	2.32	1.10	0.62	
15	0.17	1.89	198.69	14.84	37.93	265.19	146.18	41.37	6.27	1.89	2.55	0.44	
16	0.17	1.89	84.42	12.41	37.93	276.98	109.88	43.13	4.89	3.35	2.11	0.62	
17	0.17	1.48	74.27	11.47	54.40	151.50	90.29	52.44	4.25	3.35	2.78	1.10	
18	0.17	1.48	69.94	11.47	85.63	112.71	83.33	35.35	3.06	2.78	4.57	1.68	
19	0.17	1.48	62.51	11.47	49.54	171.41	61.49	33.77	3.06	3.35	5.54	0.44	
20	0.17	1.29	38.74	11.94	60.48	153.28	54.40	26.49	2.78	4.89	2.55	0.44	
21	0.17	0.75	28.06	12.41	190.56	98.99	101.52	23.42	2.78	5.54	1.29	0.38	
22	0.22	0.62	23.42	11.47	178.80	69.94	69.94	21.22	2.78	13.37	0.56	0.22	
23	0.38	0.62	37.03	11.47	118.41	66.71	74.27	19.01	2.32	3.95	0.49	0.22	
24	0.38	0.38	24.14	10.55	156.87	158.67	57.37	18.26	1.89	2.11	0.49	0.17	
25	0.32	0.11	24.14	9.21	211.05	169.57	57.37	17.59	1.68	0.38	0.49	0.22	
26	0.62	0.05	72.15	8.77	993.66	141.28	50.51	13.85	2.32	0.62	0.49	1.48	
27	0.68	0.27	54.40	7.49	1051.29	288.89	39.64	13.37	4.25	0.56	0.62	2.78	
28	0.75	0.92	28.81	6.27	695.95	228.37	20.45	12.89	4.25	0.62	1.89	3.35	
29	0.75	0.92	28.81	6.27	341.20	208.98	19.69	12.41	2.32	0.62		5.87	
30	0.92	0.38	24.95	11.47	208.98	116.98	26.49	10.55	2.32	0.75		4.57	
31		0.17		12.41	121.29		18.26		1.89	2.11		2.55	
Total	12.66	49.55	962.82	247.00	5057.27	8442.11	5628.46	1626.24	170.14	100.59	70.19	60.51	22427.54 Ton
Mean	0.42	1.60	32.09	7.97	163.14	281.40	181.56	54.21	5.49	3.24	2.51	1.95	
Max	0.92	4.25	198.69	17.59	1051.29	1758.05	1103.02	144.54	11.01	13.37	11.47	12.89	1758.05
Min	0.17	0.05	0.17	0.68	10.55	65.68	18.26	10.55	1.68	0.38	0.49	0.17	0.05

WATER YEAR 1996

NAN RIVER BASIN

Nan River at Ban Bun Nak, Nan (N.13A)

Location	Lat. 18°33'12" N., Long. 100°46'08" E., on left bank about 2 kilometers upstream from station N.13, Ban Bun Nak, Amphoe Sa, Nan.
Drainage Area	8,784 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1994 - Cont'd
Actual Measurement	1994 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:22:13.28 LQS/LQS02D/12

Station - Ban Bun Nak, Sa, Nan, (N.13A)
Stream - Nan
River - Nan
River System - Nan River

Royal Irrigation Department
Thailand
Hydrology Division 300496

$QS = 0.2152\ QW^{1.74293}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	79.	437.	341.	580.	17259.	22426.	4417.	1463.	580.	199.	109.	68.	
2	63.	199.	580.	404.	12019.	18654.	3744.	1735.	506.	199.	103.	68.	
3	53.	214.	543.	311.	10372.	26579.	3253.	2436.	506.	199.	103.	63.	
4	63.	437.	341.	372.	10372.	20094.	2858.	2208.	471.	199.	103.	63.	
5	68.	277.	244.	404.	14186.	19448.	3390.	1688.	471.	199.	96.	63.	
6	58.	157.	214.	543.	16206.	14186.	6351.	2321.	437.	199.	96.	63.	
7	53.	214.	437.	778.	13492.	11501.	7105.	2613.	437.	199.	96.	58.	
8	58.	136.	717.	580.	10868.	9767.	6903.	1990.	404.	199.	96.	58.	
9	49.	115.	1111.	778.	9060.	8489.	10128.	1833.	404.	185.	90.	53.	
10	44.	109.	1076.	543.	6533.	8377.	24174.	1642.	372.	185.	90.	53.	
11	40.	294.	471.	341.	5138.	9767.	22940.	1463.	372.	185.	90.	53.	
12	40.	157.	260.	277.	7206.	9177.	14751.	1377.	341.	185.	90.	53.	
13	40.	115.	372.	938.	22426.	7308.	9767.	1259.	311.	171.	85.	53.	
14	38.	129.	1147.	619.	63318.	6260.	7515.	1221.	311.	171.	85.	53.	
15	53.	171.	2796.	506.	37218.	14046.	5993.	1147.	294.	171.	85.	49.	
16	49.	199.	18340.	471.	22597.	18811.	5221.	1076.	277.	171.	85.	49.	
17	49.	150.	6082.	2436.	22086.	22086.	4495.	1006.	277.	171.	85.	49.	
18	49.	150.	3321.	3185.	36982.	14609.	3889.	972.	277.	157.	79.	49.	
19	44.	122.	1937.	59393.	81323.	10993.	3459.	905.	260.	150.	79.	44.	
20	40.	150.	1597.	63318.	93301.	11246.	3600.	872.	244.	143.	79.	44.	
21	157.	150.	1040.	33569.	73823.	10619.	3600.	840.	244.	143.	73.	44.	
22	122.	404.	972.	32038.	57675.	8154.	3185.	809.	229.	136.	73.	44.	
23	115.	294.	1076.	28495.	39411.	9647.	2673.	809.	229.	136.	73.	49.	
24	103.	150.	1259.	17565.	106353.	8265.	2378.	778.	214.	129.	73.	49.	
25	79.	143.	905.	19932.	84025.	9060.	2208.	717.	214.	122.	73.	49.	
26	341.	122.	972.	48410.	45021.	11119.	2098.	717.	214.	115.	68.	49.	
27	372.	103.	1006.	71869.	34011.	18340.	1937.	688.	214.	115.	68.	44.	
28	809.	96.	1335.	75037.	28107.	9529.	1885.	659.	214.	115.	68.	58.	
29	1335.	85.	972.	90475.	22768.	5993.	1642.	619.	199.	115.		96.	
30	840.	85.	717.	57675.	16355.	5221.	1507.	580.	199.	115.		90.	
31		185.		28495.	16058.		1420.		199.	115.		79.	
Total	5303.	5749.	52181.	640337.	1035569.	379771.	178486.	38443.	9921.	4993.	2393.	1757.	2354903. Ton
Mean	177.	185.	1739.	20656.	33405.	12659.	5758.	1281.	320.	161.	85.	57.	
Max	1335.	437.	18340.	90475.	106353.	26579.	24174.	2613.	580.	199.	109.	96.	106353.
Min	38.	85.	214.	277.	5138.	5221.	1420.	580.	199.	115.	68.	44.	38.

WATER YEAR 1996

NAM MAE ING BASIN

Nam Mae Ing at Ban Nam Ing, Chiang Rai (I.14)

Location	Lat. 19°50′00″ N., Long. 100°12′15″ E., on right bank at the bridge on road about 2 kilometers from King Amphoe Khun Tan, Chiang Rai.
Drainage Area	6,155 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D- 49
Period of Available Records	1994 - Cont'd
Actual Measurement	1994 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:38:00.49 LQS/LQS02D/12

Station - Ban Nam Ing, K.A. Khuntan, Chiang Rai, (I.14)
Stream - Nam Mae Ing
River - Nam Mae Ing
River System - Nam Mae Ing

Royal Irrigation Department
Thailand
Hydrology Division 300496

$QS = 2.8483\ QW^{1.28373}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.12	63.68	25.77	61.87	1819.13	3355.10	879.83	468.50	164.02	43.83	19.58	6.93	
2	9.00	41.30	28.05	48.02	1399.59	3651.07	873.35	488.93	153.00	40.05	17.87	6.62	
3	8.48	28.05	26.90	41.30	1282.04	3995.93	821.85	623.39	147.55	37.58	17.87	6.27	
4	7.02	23.53	38.81	41.30	1235.67	4156.25	821.85	687.61	139.90	37.58	16.99	5.97	
5	5.38	24.64	35.14	50.98	1182.06	4244.28	821.85	711.31	132.25	36.35	16.18	5.97	
6	5.71	58.49	32.74	124.78	1197.32	4141.62	866.87	765.25	127.23	33.93	15.33	5.63	
7	6.06	65.50	40.05	391.29	1182.06	3894.64	1005.03	853.95	122.26	32.74	14.54	5.33	
8	6.06	52.50	48.02	395.85	1085.94	3594.27	1683.10	892.84	114.84	31.55	15.33	5.00	
9	5.38	33.93	69.18	246.79	978.37	3294.14	2356.15	899.35	112.45	30.37	14.54	3.79	
10	5.04	19.58	61.87	144.93	841.08	3076.77	2621.59	892.84	109.98	29.21	13.70	3.22	
11	4.07	14.54	50.98	122.26	741.17	2945.57	2375.54	860.41	105.17	28.05	14.54	5.97	
12	4.07	24.64	43.83	127.23	796.36	2874.55	1948.15	802.71	100.40	29.21	13.70	5.63	
13	4.07	25.77	42.56	144.93	1415.43	2762.04	1737.23	747.17	98.08	30.37	13.70	5.97	
14	3.75	109.98	53.97	169.59	2969.33	2697.02	1638.28	681.72	96.08	29.21	12.93	5.63	
15	3.45	298.58	132.25	286.88	3502.39	2610.85	1479.20	652.41	92.12	26.90	12.32	5.33	
16	4.07	519.92	334.52	377.67	3465.44	2751.18	1375.90	567.66	90.16	23.53	11.07	5.97	
17	4.39	395.85	290.73	318.46	2969.33	2993.13	1320.97	509.54	84.31	23.53	9.86	5.97	
18	4.71	172.40	282.93	264.28	2600.95	3076.77	1258.81	448.27	80.47	24.64	9.86	5.97	
19	5.04	86.25	214.55	334.52	2653.86	2933.71	1274.29	391.29	78.56	23.53	9.86	5.63	
20	4.71	57.00	155.74	617.62	2957.45	2675.42	1328.79	346.73	74.78	23.53	10.44	5.33	
21	4.39	55.52	119.83	1005.03	3565.95	2356.15	1375.90	314.42	72.90	23.53	9.86	5.00	
22	4.71	50.98	100.40	1320.97	3665.30	2116.85	1407.51	282.93	69.18	24.64	9.23	4.71	
23	17.70	42.56	90.16	1197.32	3679.55	1892.62	1391.68	253.78	61.87	25.77	8.67	4.39	
24	43.83	37.58	84.31	1415.43	3708.07	1819.13	1297.58	239.76	60.07	26.90	9.86	4.39	
25	23.53	35.14	100.40	1957.44	4010.45	1683.10	1174.44	223.81	53.97	29.21	11.07	4.71	
26	19.58	35.14	102.82	2463.20	4244.28	1611.52	1072.36	205.28	50.98	26.90	8.07	4.11	
27	46.59	33.93	112.45	2643.09	4258.99	1455.21	938.68	196.19	49.53	25.77	6.27	3.79	
28	53.97	32.74	127.23	2783.79	4185.55	1243.37	796.36	184.07	46.59	23.53	6.93	3.52	
29	82.39	26.90	107.61	2933.71	3981.42	1072.36	669.96	175.21	42.56	22.43		5.33	
30	107.61	24.64	82.39	2839.18	3679.55	945.27	578.52	169.59	41.30	19.58		10.44	
31		22.43		2404.68	3391.79		525.13		42.56	19.58		12.93	
Total	516.88	2513.69	3036.19	27274.39	78645.87	81919.90	39716.75	15536.92	2815.12	883.53	350.17	175.45	253384.88 Ton
Mean	17.23	81.09	101.21	879.82	2536.96	2730.66	1281.19	517.90	90.81	28.50	12.51	5.66	
Max	107.61	519.92	334.52	2933.71	4258.99	4244.28	2621.59	899.35	164.02	43.83	19.58	12.93	4258.99
Min	3.45	14.54	25.77	41.30	741.17	945.27	525.13	169.59	41.30	19.58	6.27	3.22	3.22

WATER YEAR 1996

SAKAE KRANG RIVER BASIN

Nam 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.

Method of Sampling Depth Integrating

Instrument Used US.D - 49

Period of Available Records 1983 - 1988 , 1995 - Cont'd

Actual Measurement 1983 - 1986 , 1995 - Cont'd

Remarks Continued Sediment Station

Using Rating Curve Water Year 1983 - 1996

RID Computer Center, Processing : 26-AUG-1998 14:38:33.09 LQS/LQS02D/12

Station - Ban Pang Makha, Khanu Woralaksaburi, Kamphaeng Phet, (CT.5A)
Stream - Nam Mae Wong
River - Sakae Krang
River System - Sakae Krang River

Royal Irrigation Department
Thailand
Hydrology Division 210497
1.50190
QS = 2.1785 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.31	62.25	82.91	24.43	97.55	389.53	2527.22	1876.01	49.49	6.17	2.24	0.66	
2	3.05	75.73	68.88	22.62	97.55	425.23	13478.72	2048.56	47.18	6.17	2.24	0.66	
3	3.05	62.25	144.13	17.47	86.47	541.30	9687.06	9498.03	47.18	5.80	2.24	0.66	
4	3.05	154.88	86.47	17.47	79.30	1347.40	4730.35	3768.52	42.69	5.80	2.02	0.66	
5	3.05	59.07	321.34	14.92	68.88	5027.63	3021.81	1949.43	40.50	5.49	1.80	0.55	
6	3.05	93.85	243.31	13.69	65.59	1876.01	1806.02	1255.97	36.23	5.18	1.56	0.55	
7	3.31	90.08	138.85	14.92	109.20	832.57	1310.57	861.37	34.16	5.18	1.56	0.55	
8	3.05	101.43	632.99	20.86	86.47	530.18	1365.94	983.83	30.14	4.83	1.56	0.55	
9	3.05	51.83	508.58	28.19	75.73	497.89	1403.27	696.28	28.19	4.54	1.33	0.45	
10	3.05	30.14	208.60	26.29	117.16	372.07	1133.49	586.55	28.19	4.54	1.33	0.45	
11	2.76	19.14	138.85	40.50	109.20	296.84	1000.02	519.34	26.29	4.54	1.14	0.55	
12	2.51	13.69	201.88	65.59	93.85	304.99	1000.02	389.53	24.43	4.54	1.14	0.77	
13	2.76	17.47	144.13	42.69	62.25	273.16	1292.28	304.99	20.86	4.54	1.14	0.77	
14	3.31	42.69	93.85	42.69	54.21	329.71	846.93	337.98	20.86	4.21	1.14	0.66	
15	3.61	30.14	149.47	49.49	51.83	288.93	632.99	273.16	19.14	4.21	1.14	0.55	
16	2.76	16.18	149.47	47.18	59.07	280.93	497.89	215.40	17.47	3.31	0.96	0.45	
17	2.51	13.69	165.89	90.08	56.62	236.23	389.53	188.65	16.18	3.31	0.96	0.36	
18	2.51	14.92	236.23	154.88	44.92	201.88	313.22	165.89	14.92	3.31	0.96	0.36	
19	2.02	36.23	201.88	105.35	38.34	160.35	273.16	144.13	14.92	3.05	0.77	0.27	
20	3.31	34.16	154.88	59.07	44.92	138.85	250.47	133.63	14.92	3.05	0.77	0.19	
21	10.23	563.77	105.35	49.49	47.18	144.13	236.23	121.15	14.92	3.05	0.77	0.19	
22	9.15	273.16	72.33	36.23	59.07	138.85	195.23	109.20	14.92	3.05	0.77	0.19	
23	10.23	125.31	56.62	28.19	49.49	201.88	171.49	97.55	13.69	2.76	0.66	0.19	
24	12.50	121.15	54.21	28.19	42.69	329.71	149.47	86.47	12.50	2.76	0.66	0.19	
25	17.47	105.35	47.18	49.49	113.22	435.37	313.22	79.30	11.34	2.51	0.66	0.19	
26	38.34	72.33	54.21	79.30	372.07	1583.66	1099.27	72.33	10.23	2.51	0.66	0.19	
27	24.43	47.18	59.07	121.15	890.50	466.28	541.30	72.33	9.15	2.51	0.66	0.19	
28	30.14	34.16	42.69	265.31	1150.73	2073.43	346.31	62.25	9.15	2.24	0.66	0.45	
29	68.88	26.29	38.34	243.31	919.95	7697.91	265.31	59.07	9.15	2.24		0.36	
30	79.30	22.62	28.19	165.89	497.89	5631.48	222.27	54.21	9.15	2.24		0.55	
31		72.33		121.15	337.98		354.89		9.15	2.24		0.55	
Total	359.75	2483.47	4630.78	2086.08	5979.88	33054.38	50855.94	27011.12	697.29	119.88	33.50	13.91	127325.98 Ton
Mean	11.99	80.11	154.36	67.29	192.90	1101.81	1640.51	900.37	22.49	3.87	1.20	0.45	
Max	79.30	563.77	632.99	265.31	1150.73	7697.91	13478.72	9498.03	49.49	6.17	2.24	0.77	13478.72
Min	2.02	13.69	28.19	13.69	38.34	138.85	149.47	54.21	9.15	2.24	0.66	0.19	0.19

WATER YEAR 1996

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 Nong Phai, Phetchabun.
Drainage Area	471 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 48
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:22:37.99 LQS/LQS02D/12

Station - Ban Wang Tha Di, Nong Phai, Phetchabun, (S.12)
Stream - Lam Kong
River - Pasak
River System - Pasak River

Royal Irrigation Department
Thailand
Hydrology Division 150797
2.45610
QS = 2.2351 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.2	623.3	10.8	38.6	27.3	412.7	2017.2	210.2	33.7	13.7	8.2	4.7	
2	2.5	23.4	19.8	33.7	15.0	221.8	3428.6	199.0	33.7	12.3	8.2	4.7	
3	2.5	1384.2	31.6	41.3	15.0	392.4	1743.6	167.6	33.7	12.3	7.6	4.3	
4	4.7	455.1	31.6	33.7	15.0	1194.1	1149.1	1105.2	33.7	12.3	7.6	3.9	
5	10.8	10010.9	13.7	29.3	19.8	7863.9	7095.1	500.0	31.6	12.3	7.1	3.9	
6	43.9	148.5	10.1	27.3	19.8	3778.6	7670.7	353.6	29.3	12.3	7.1	3.9	
7	7.6	623.3	12.3	29.3	21.4	1287.1	28124.5	317.2	27.3	11.5	7.1	3.9	
8	4.7	52.7	13.7	29.3	36.3	2472.6	5857.9	177.7	27.3	11.5	6.6	3.9	
9	3.5	52.7	21.4	27.3	18.0	1809.8	4021.6	148.5	27.3	11.5	6.6	3.9	
10	3.2	283.2	10.1	23.4	15.0	2807.1	3662.6	130.6	27.3	10.8	6.1	3.9	
11	2.8	299.9	31.6	21.4	18.0	1194.1	1946.6	122.2	25.2	10.8	6.1	3.9	
12	2.5	106.4	130.6	18.0	177.7	1149.1	1384.2	114.2	25.2	10.8	6.1	3.9	
13	2.8	43.9	52.7	85.1	623.3	11464.5	1105.2	317.2	23.4	10.8	6.1	3.5	
14	72.4	251.4	25.2	15.0	1240.0	23744.2	939.5	122.2	23.4	10.8	6.1	3.5	
15	46.8	177.7	25.2	13.7	477.2	18179.3	789.5	99.0	23.4	10.8	6.1	3.5	
16	41.3	139.4	43.9	15.0	597.3	6196.3	687.0	85.1	23.4	10.1	6.1	4.3	
17	7.6	27.3	10482.5	46.8	177.7	3896.7	597.3	78.6	21.4	10.1	6.1	4.3	
18	4.7	66.5	11464.5	547.4	99.0	5225.7	547.4	78.6	21.4	10.1	5.6	3.9	
19	3.9	1553.8	2472.6	412.7	78.6	2392.8	523.3	72.4	19.8	9.5	5.6	3.5	
20	3.2	455.1	82325.2	66.5	167.6	3102.7	433.6	66.5	19.8	9.5	5.6	2.8	
21	3.2	412.7	11718.1	41.3	60.9	15548.9	372.7	55.6	18.0	9.5	5.6	2.5	
22	2.5	433.6	825.5	27.3	66.5	6028.7	353.6	52.7	18.0	9.5	5.1	2.5	
23	2.8	523.3	1434.4	33.7	41.3	10723.1	335.1	49.5	16.6	9.5	5.1	2.5	
24	2.8	66.5	1809.8	43.9	36.3	56307.2	317.2	46.8	16.6	8.8	5.1	23.4	
25	2.8	29.3	523.3	29.3	1020.3	39004.8	299.9	46.8	16.6	8.8	5.1	11.5	
26	85.1	25.2	177.7	36.3	1240.0	83645.8	267.0	43.9	15.0	8.2	5.1	5.1	
27	12.3	25.2	106.4	29.3	720.2	18581.6	236.3	41.3	15.0	8.2	4.7	6.6	
28	6.1	23.4	66.5	19.8	251.4	6372.7	210.2	41.3	15.0	8.2	4.7	10.8	
29	12.3	19.8	52.7	21.4	251.4	3896.7	199.0	38.6	13.7	8.2		6.1	
30	299.9	23.4	41.3	46.8	392.4	2636.7	188.2	38.6	13.7	8.2		4.7	
31		13.7		27.3	2636.7		177.7		13.7	8.2		7.6	
Total	704.4	18374.8	123984.8	1911.2	10576.4	341531.7	76681.4	4920.7	703.2	319.1	172.2	161.4	580041.3 Ton
Mean	23.5	592.7	4132.8	61.7	341.2	11384.4	2473.6	164.0	22.7	10.3	6.2	5.2	
Max	299.9	10010.9	82325.2	547.4	2636.7	83645.8	28124.5	1105.2	33.7	13.7	8.2	23.4	83645.8
Min	2.5	13.7	10.1	13.7	15.0	221.8	177.7	38.6	13.7	8.2	4.7	2.5	2.5

WATER YEAR 1996

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.

Method of Sampling Depth Integrating

Instrument Used US.D - 49

Period of Available Records 1989 - Cont'd

Actual Measurement 1989 - Cont'd

Remarks Continued Sediment Station

Using Rating Curve Water Year 1988 - 1996

RID Computer Center, Processing : 26-AUG-1998 14:38:40.67 LQS/LQS02D/12

Station - Ban Tha Yiam, K.A. Lam Sonthi, Lob Buri, (S.13)
Stream - Lam Sonthi
River - Pasak
River System - Pasak River

Royal Irrigation Department
Thailand
Hydrology Division 110497
1.76140
QS = 11.7372 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.65	7.07	9.94	12.36	9.37	23.14	128.44	58.54	11.12	5.65	5.06	1.25	
2	5.06	7.07	9.94	56.48	9.37	52.07	283.69	186.00	10.53	5.65	4.23	1.02	
3	4.63	3.46	40.50	277.17	8.10	105.56	271.52	37.03	11.12	5.65	2.76	1.02	
4	4.63	4.23	22.31	33.38	86.60	243.25	153.86	3463.44	9.37	5.06	2.44	1.02	
5	18.13	56.48	15.24	21.50	872.03	1989.12	4557.93	1313.28	9.37	5.06	2.76	1.02	
6	9.94	15.95	13.01	84.16	58.54	1741.47	961.79	301.12	9.37	5.06	3.46	1.02	
7	7.07	11.12	14.56	30.20	102.38	345.30	1446.33	243.25	8.10	9.37	3.10	1.02	
8	5.65	860.09	62.74	28.66	5627.01	237.91	977.11	134.91	7.58	8.63	2.76	1.02	
9	5.06	48.20	86.60	18.13	71.98	145.17	1248.84	74.26	7.58	6.11	3.10	0.82	
10	5.06	1567.71	23.97	15.24	33.38	237.91	265.92	50.12	7.58	5.65	3.10	0.82	
11	4.63	48.20	16.66	12.36	22.31	125.55	211.26	37.03	7.58	5.65	3.10	0.82	
12	4.23	20.70	14.56	23.14	19.65	145.17	110.96	30.20	7.58	5.06	3.10	0.82	
13	23.97	15.95	44.09	74.26	897.48	74.26	74.26	33.38	7.58	5.06	2.76	0.69	
14	54.06	25.40	54.06	19.65	64.89	483.87	56.48	23.97	7.07	5.06	2.76	0.69	
15	13.01	17.39	248.64	15.24	454.35	884.05	46.31	20.70	7.07	5.06	2.76	0.57	
16	7.58	15.95	30.20	15.95	216.34	254.87	37.03	28.66	7.07	5.06	2.44	0.57	
17	6.58	16.66	18.89	13.01	64.89	125.55	31.77	18.13	7.07	4.63	2.44	0.42	
18	5.65	60.62	345.30	11.74	167.31	81.75	28.66	17.39	6.58	4.63	2.44	0.42	
19	6.58	313.84	137.89	11.12	62.74	62.74	23.14	15.24	6.58	4.63	2.13	0.57	
20	6.58	71.98	31.77	76.57	884.05	46.31	22.31	11.74	6.58	4.63	2.13	0.57	
21	5.65	186.00	25.40	30.20	116.48	50.12	21.50	15.24	6.58	4.63	2.13	0.57	
22	5.06	271.52	23.14	25.40	94.60	69.73	20.70	11.74	6.11	4.63	1.76	0.57	
23	5.06	125.55	1481.30	15.95	46.31	46.31	19.65	9.37	6.11	4.23	1.76	0.57	
24	5.06	42.28	338.19	13.01	30.20	232.62	18.89	8.63	5.65	4.23	1.76	0.57	
25	4.23	20.70	46.31	12.36	351.56	397.74	18.89	8.63	5.65	4.23	1.49	0.69	
26	4.23	35.02	23.97	11.12	935.56	8561.91	18.89	8.10	5.65	3.84	1.49	0.69	
27	7.58	16.66	19.65	10.53	149.49	3681.34	18.13	7.58	5.65	3.84	1.49	0.69	
28	9.37	13.01	15.95	9.94	69.73	596.28	17.39	11.74	5.65	3.84	1.49	0.69	
29	10.53	12.36	13.66	9.37	56.48	364.24	16.66	9.37	5.65	3.10		0.57	
30	10.53	11.12	11.74	9.37	38.75	176.55	15.95	7.07	5.65	3.46		0.69	
31		10.53		9.94	23.97		16.66		5.65	3.10		1.02	
Total	271.05	3932.82	3240.18	1007.51	11645.90	21581.86	11140.92	6195.86	226.48	154.49	72.20	23.49	59492.76 Ton
Mean	9.03	126.87	108.01	32.50	375.67	719.40	359.38	206.53	7.31	4.98	2.58	0.76	
Max	54.06	1567.71	1481.30	277.17	5627.01	8561.91	4557.93	3463.44	11.12	9.37	5.06	1.25	8561.91
Min	4.23	3.46	9.94	9.37	8.10	23.14	15.95	7.07	5.65	3.10	1.49	0.42	0.42

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1988 - 1996

RID Computer Center, Processing : 14-AUG-1998 09:22:52.89 LQS/LQS02D/12

Station - Ban Na Som, Chai Badan, Lop Buri, (S.14)
Stream - Lam Sonthi
River - Pasak
River System - Pasak River

Royal Irrigation Department
Thailand
Hydrology Division 100497
1.76435
QS = 14.0237 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.7	37.6	168.3	24.1	17.1	115.9	766.8	483.7	92.3	25.4	21.7	0.6	
2	5.7	71.1	39.6	20.5	16.1	195.3	2312.9	873.5	92.3	25.4	21.7	14.0	
3	3.2	52.8	505.8	847.0	9.9	920.0	10042.6	873.5	89.0	25.4	21.7	12.6	
4	4.9	30.4	583.0	715.8	9.9	4324.8	23126.3	2638.5	89.0	62.8	21.7	9.9	
5	4.9	35.8	231.5	130.5	224.9	5480.7	24078.1	33158.4	85.7	62.8	21.7	9.9	
6	5.7	139.0	62.8	257.1	231.5	11183.3	50057.7	20487.4	85.7	57.7	20.5	9.9	
7	9.3	28.7	65.7	112.8	98.6	3856.3	31242.3	3780.5	83.0	25.4	18.2	14.0	
8	7.1	571.8	55.5	134.4	112.8	1131.0	16637.2	2057.2	79.8	25.4	14.0	12.6	
9	4.9	3557.0	411.7	115.9	4105.0	1353.5	27565.9	1131.0	79.8	25.4	14.0	0.1	
10	3.4	819.4	527.0	291.2	452.1	766.8	23668.1	473.5	148.5	25.4	14.0	4.1	
11	2.9	1517.0	183.9	57.7	65.7	1353.5	1199.8	402.1	139.0	25.4	14.0	14.0	
12	3.4	102.1	45.6	35.8	19.3	2183.4	873.5	421.4	134.4	25.4	14.0	1.1	
13	3.4	52.8	79.8	473.5	60.5	703.6	873.5	432.2	134.4	25.4	14.0	0.1	
14	297.7	594.2	257.1	337.8	244.2	1047.8	741.8	337.8	130.5	21.7	14.0	0.6	
15	364.8	201.6	1433.3	68.2	320.3	2581.4	505.8	224.9	123.4	21.7	15.0	1.2	
16	32.1	115.9	549.8	55.5	1199.8	1294.9	402.1	183.9	119.6	21.7	15.0	3.4	
17	10.5	98.6	207.1	48.1	173.4	494.1	244.2	173.4	112.8	21.7	15.0	7.5	
18	7.1	201.6	494.1	27.0	130.5	270.4	244.2	134.4	98.6	21.7	15.0	11.2	
19	6.2	728.1	793.7	27.0	297.7	219.2	244.2	134.4	43.5	21.7	16.1	14.0	
20	4.9	8749.3	183.9	30.4	201.6	168.3	244.2	134.4	41.5	21.7	16.1	14.0	
21	11.9	7922.6	83.0	60.5	346.7	178.6	244.2	130.5	41.5	21.7	15.0	14.0	
22	11.2	1800.4	60.5	105.6	231.5	383.2	183.9	127.2	41.5	21.7	16.1	12.6	
23	7.1	1393.1	158.3	50.2	305.1	537.8	173.4	98.6	35.8	21.7	17.1	12.6	
24	4.9	1984.8	2527.1	30.4	95.7	1734.1	173.4	98.6	35.8	21.7	18.2	8.0	
25	6.2	212.7	346.7	24.1	62.8	1822.8	173.4	98.6	33.9	21.7	18.2	7.5	
26	4.9	92.3	105.6	20.5	7432.5	3097.0	173.4	98.6	32.1	21.7	18.2	7.5	
27	3.7	79.8	76.7	16.1	2899.8	13930.8	173.4	98.6	32.1	20.5	16.1	6.6	
28	3.4	55.5	48.1	18.2	270.4	11183.3	134.4	92.3	30.4	20.5	16.1	6.6	
29	14.0	33.9	28.7	18.2	127.2	920.0	134.4	92.3	30.4	20.5		5.7	
30	15.0	20.5	48.1	11.2	115.9	1756.1	134.4	92.3	28.7	20.5		7.5	
31		24.1		17.1	76.7		134.4		28.7	20.5		7.5	
Total	870.1	31324.5	10362.0	4182.4	19955.2	75187.9	216904.0	69563.7	2373.7	821.9	472.4	250.9	432268.7 Ton
Mean	29.0	1010.5	345.4	134.9	643.7	2506.3	6996.9	2318.8	76.6	26.5	16.9	8.1	
Max	364.8	8749.3	2527.1	847.0	7432.5	13930.8	50057.7	33158.4	148.5	62.8	21.7	14.0	50057.7
Min	2.9	20.5	28.7	11.2	9.9	115.9	134.4	92.3	28.7	20.5	14.0	0.1	0.1

WATER YEAR 1996

PASAK RIVER BASIN

Lam Phaya Klang at Ban 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, A.Chai Badan, Lop Buri.

Drainage Area — 381 sq.km.

Method of Sampling — Depth Integrating

Instrument Used — US.DH - 59

Period of Available Records — 1988 - Cont'd

Actual Measurement — 1988 - 1989 , 1994 - Cont'd

Remarks — Continued Sediment Station

Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:23:01.16 — LQS/LQS02D/12

Station - Ban Pang Hu Sua, Chai Badan, Lop Buri, (S.31)
Stream - Lam Phaya Klang
River - Pasak
River System - Pasak River

Royal Irrigation Department
Thailand
Hydrology Division 0101
1.74800
QS = 30.2237 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.7	101.5	18.3	12.4	3.7	14.2	6004.2	243.6	61.4	30.2	18.3	3.7	
2	3.7	47.8	16.2	12.4	4.8	195.5	49806.0	227.1	61.4	30.2	18.3	2.7	
3	3.7	22.7	211.1	76.4	3.7	479.3	11063.8	195.5	61.4	27.6	18.3	9.0	
4	3.7	372.9	260.6	25.1	12.4	1216.4	848.9	6670.1	61.4	27.6	18.3	12.4	
5	6.1	47.8	54.4	12.4	14.2	2343.7	11814.2	5291.2	61.4	27.6	18.3	12.4	
6	4.8	54.4	27.6	14.2	27.6	278.1	2498.9	848.9	61.4	27.6	16.2	12.4	
7	4.8	27.6	84.4	16.2	22.7	243.6	15159.0	457.1	54.4	25.1	16.2	12.4	
8	4.8	47.8	47.8	125.7	18.3	479.3	2046.3	260.6	47.8	25.1	14.2	12.4	
9	4.8	76.4	278.1	296.1	18.3	227.1	11276.1	195.5	47.8	25.1	20.5	12.4	
10	4.8	30.2	41.6	54.4	14.2	113.3	672.7	166.0	47.8	25.1	14.2	12.4	
11	6.1	22.7	22.7	41.6	12.4	621.7	457.1	152.1	47.8	25.1	14.2	12.4	
12	6.1	16.2	18.3	61.4	10.6	227.1	333.6	152.1	35.7	25.1	14.2	12.4	
13	6.1	621.7	20.5	243.6	6.1	101.5	278.1	243.6	41.6	22.7	14.2	12.4	
14	9.0	260.6	2551.5	54.4	10.6	76.4	243.6	152.1	41.6	22.7	14.2	12.4	
15	6.1	76.4	125.7	68.7	12.4	180.5	227.1	125.7	35.7	22.7	14.2	12.4	
16	6.1	22.7	30.2	30.2	18.3	125.7	211.1	113.3	35.7	22.7	14.2	10.6	
17	6.1	14.2	20.5	20.5	16.2	68.7	180.5	138.6	35.7	22.7	14.2	10.6	
18	4.8	14.2	101.5	18.3	14.2	47.8	166.0	125.7	35.7	20.5	76.4	10.6	
19	4.8	976.0	41.6	16.2	14.2	41.6	152.1	101.5	30.2	20.5	41.6	10.6	
20	4.8	278.1	22.7	35.7	14.2	30.2	152.1	92.8	30.2	20.5	20.5	10.6	
21	4.8	596.9	18.3	25.1	195.5	35.7	138.6	92.8	30.2	20.5	18.3	9.0	
22	4.8	5062.1	18.3	20.5	195.5	47.8	138.6	92.8	30.2	20.5	18.3	7.5	
23	6.1	501.9	16.2	18.3	27.6	30.2	125.7	84.4	30.2	20.5	16.2	7.5	
24	6.1	101.5	22.7	18.3	18.3	30.2	125.7	84.4	30.2	20.5	16.2	7.5	
25	6.1	41.6	20.5	16.2	16.2	35.7	125.7	76.4	30.2	18.3	16.2	12.4	
26	6.1	41.6	16.2	18.3	25.1	211.1	152.1	76.4	30.2	16.2	16.2	12.4	
27	6.1	20.5	16.2	18.3	27.6	68.7	113.3	68.7	30.2	16.2	16.2	12.4	
28	10.6	20.5	14.2	18.3	16.2	92.8	101.5	68.7	30.2	18.3	16.2	16.2	
29	20.5	18.3	12.4	16.2	14.2	372.9	101.5	61.4	30.2	18.3		12.4	
30	47.8	16.2	12.4	16.2	16.2	296.1	101.5	61.4	30.2	18.3		16.2	
31		14.2		14.2	16.2		152.1		30.2	18.3		61.4	
Total	223.9	9567.2	4162.7	1435.8	837.7	8332.9	114967.7	16720.5	1268.3	702.3	544.5	392.1	159155.6 Ton
Mean	7.5	308.6	138.8	46.3	27.0	277.8	3708.6	557.3	40.9	22.7	19.4	12.6	
Max	47.8	5062.1	2551.5	296.1	195.5	2343.7	49806.0	6670.1	61.4	30.2	76.4	61.4	49806.0
Min	3.7	14.2	12.4	12.4	3.7	14.2	101.5	61.4	30.2	16.2	14.2	2.7	2.7

WATER YEAR 1996

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	US.D - 49
Period of Available Records	1986 - Cont'd
Actual Measurement	1986 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:23:11.95 LQS/LQS02D/12

Station - Ban Non Yang, K.A. Nong Sung, Muk Dahan, (KH.79)
Stream - Huai Bang I
River - Khong
River System - Khong River

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 10.2548\ QW^{1.40533}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.78	1.07	57.26	1.07	35.92	17.29	5.24	0.40	0.20	0.15	0.11	
2	0.15	6.72	2.63	5.24	0.92	20.73	15.63	2.63	0.40	0.20	0.15	0.07	
3	0.15	1.71	1.54	2.63	0.78	18.13	11.72	2.44	0.40	0.20	0.15	0.07	
4	0.15	1.22	1.38	2.07	0.78	14.03	13.25	3.66	0.40	0.20	0.15	0.04	
5	0.15	5.96	1.38	2.07	1.22	15.63	487.15	4.89	0.40	0.20	0.15	0.04	
6	0.15	3.66	1.38	2.07	1.71	5.96	43.37	3.03	0.40	0.20	0.15	0.04	
7	0.15	1.22	1.38	5.24	1.22	6.34	24.34	2.44	0.35	0.20	0.15	0.04	
8	0.15	1.71	2.44	3.66	0.92	3.66	18.13	1.89	0.35	0.20	0.15	0.04	
9	0.15	2.07	3.03	2.63	0.65	3.03	14.03	1.71	0.35	0.20	0.15	0.04	
10	0.15	24.34	1.89	2.44	41.84	2.44	10.98	1.71	0.35	0.20	0.11	0.04	
11	0.15	38.85	1.54	1.89	12.48	2.83	10.25	1.54	0.35	0.20	0.11	0.04	
12	0.15	30.07	1.38	1.54	7.49	3.87	7.49	19.85	0.35	0.20	0.11	0.04	
13	0.15	20.73	22.52	1.22	525.30	1108.31	6.72	3.23	0.35	0.15	0.11	0.04	
14	0.15	26.21	18.98	0.65	678.62	1791.12	5.60	2.25	0.29	0.15	0.11	0.04	
15	0.15	9.54	46.45	0.35	55.37	145.74	4.89	2.07	0.29	0.15	0.11	0.04	
16	0.15	3.44	22.52	71.44	27.16	61.08	4.54	1.89	0.29	0.15	0.11	0.04	
17	0.15	3.03	5.60	30.07	18.98	545.14	4.54	1.71	0.29	0.15	0.11	0.04	
18	0.15	3.03	4.89	5.96	18.98	157.97	4.20	1.22	0.29	0.15	0.11	0.02	
19	0.15	3.03	3.44	3.03	11.72	2405.50	3.66	1.07	0.24	0.15	0.11	0.02	
20	2.63	2.07	3.44	2.44	6.72	2260.72	3.44	0.92	0.24	0.11	0.07	0.02	
21	0.52	0.92	3.44	41.84	4.54	1714.93	3.23	0.78	0.24	0.11	0.07	0.02	
22	0.24	0.78	2.83	14.83	3.87	244.43	2.83	0.78	0.24	0.11	0.07	0.02	
23	0.20	0.92	3.03	7.49	853.49	1848.88	2.83	0.78	0.24	0.11	0.04	0.02	
24	0.20	1.07	2.25	7.49	344.84	1025.78	2.83	0.78	0.24	0.11	0.02	0.02	
25	0.15	1.07	1.89	4.54	739.74	167.56	2.83	0.65	0.20	0.11	0.02	0.02	
26	0.15	1.07	17.29	3.44	426.85	71.44	2.63	0.65	0.20	0.11	0.02	0.02	
27	0.15	0.92	3.23	2.83	33.06	43.37	2.63	0.65	0.20	0.11	0.04	0.02	
28	3.03	0.92	2.25	2.25	18.13	29.09	2.63	0.52	0.20	0.11	0.04	0.02	
29	1.38	0.92	2.07	1.54	9.54	24.34	2.44	0.40	0.20	0.11		0.02	
30	0.65	1.07	3.03	1.38	7.49	19.85	2.44	0.40	0.20	0.11		0.02	
31		1.07		1.22	18.98		2.63		0.20	0.11		0.02	
Total	12.15	200.12	190.19	292.75	3874.46	13797.82	741.17	71.78	9.14	4.77	2.84	1.09	19198.28 Ton
Mean	0.41	6.46	6.34	9.44	124.98	459.93	23.91	2.39	0.29	0.15	0.10	0.04	
Max	3.03	38.85	46.45	71.44	853.49	2405.50	487.15	19.85	0.40	0.20	0.15	0.11	2405.50
Min	0.15	0.78	1.07	0.35	0.65	2.44	2.44	0.40	0.20	0.11	0.02	0.02	0.02

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 20-AUG-1998 09:21:32.55 LQS/LQS02D/12

Station - Ban Pha Nok Khao, Phu Kradung, Loei, (E.29)
Stream - Lam Nam Pong
River - Chi
River System - CHI

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 3.0967\ QW^{1.60496}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.9	782.4	7.5	6.3	4.4	250.4	260.9	54.9	12.4	3.1	1.8	1.3	
2	3.0	349.3	18.1	5.9	3.9	326.0	210.1	75.2	11.2	3.1	1.7	1.3	
3	2.7	104.4	37.1	5.3	3.9	397.7	174.3	98.8	10.7	3.1	1.7	1.3	
4	49.2	464.5	62.5	5.0	3.9	231.9	181.6	385.4	10.1	3.1	1.6	1.2	
5	43.7	1396.4	101.6	5.0	3.9	221.9	334.7	2691.2	9.6	3.0	1.6	1.0	
6	80.3	254.6	168.9	8.5	3.9	162.6	252.5	1666.7	9.0	3.0	1.6	0.8	
7	39.7	252.5	33.4	7.1	3.9	189.1	1110.2	3137.4	8.5	3.0	1.7	1.1	
8	10.1	57.9	25.3	75.2	5.3	68.7	7556.4	1221.7	7.5	2.9	1.8	0.9	
9	5.6	22.1	234.0	21.0	4.1	54.9	7974.3	376.3	6.6	2.9	1.6	0.8	
10	3.9	21.0	45.0	179.8	3.6	34.6	7974.3	400.8	6.6	2.7	1.7	0.8	
11	3.1	112.9	22.1	21.0	167.1	38.4	2259.4	1103.3	6.3	2.6	1.8	0.7	
12	2.9	33.4	18.1	56.4	22.1	72.8	694.4	622.8	5.9	2.4	1.3	12.4	
13	2.9	56.4	24.2	326.0	9.0	47.8	410.2	1158.5	5.6	2.4	1.2	3.6	
14	60.9	38.4	27.5	434.9	13.6	1344.6	278.6	418.4	5.3	2.4	1.3	1.7	
15	12.4	219.9	145.3	115.8	153.9	12328.0	214.0	246.2	5.0	2.3	1.3	1.1	
16	5.0	32.2	85.4	35.9	28.7	4881.1	177.9	179.8	5.0	2.3	1.3	0.9	
17	5.6	212.0	88.0	219.9	14.2	830.9	124.7	110.0	5.0	2.3	1.3	0.7	
18	5.3	343.5	1601.8	202.3	9.6	1257.4	96.1	72.8	4.7	2.3	1.3	0.7	
19	4.1	88.0	677.2	50.6	8.5	2590.0	77.7	59.4	4.4	2.3	1.2	0.7	
20	3.0	1404.9	273.2	33.4	16.7	1009.3	72.8	47.8	4.4	2.2	1.2	0.4	
21	4.4	216.0	96.1	16.1	22.1	407.1	59.4	39.7	4.1	2.2	1.3	0.7	
22	3.0	47.8	46.4	11.8	10.1	275.9	47.8	33.4	4.1	2.0	1.3	0.5	
23	2.6	208.1	29.8	8.5	14.2	229.9	41.0	28.7	3.9	2.0	1.3	1.3	
24	2.3	187.2	27.5	7.5	7.1	2188.3	33.4	25.3	3.9	1.9	1.3	6.3	
25	2.0	23.1	16.1	6.6	2478.0	2176.5	33.4	23.1	3.6	1.9	1.3	10.7	
26	2.6	12.4	20.0	7.1	1520.3	7523.5	42.3	20.0	3.6	1.8	1.3	42.3	
27	11.2	9.0	22.1	22.1	530.2	7936.0	42.3	17.4	3.6	1.8	1.3	10.7	
28	6.6	7.1	11.8	12.4	292.2	1520.3	29.8	15.4	3.6	1.8	1.3	187.2	
29	72.8	5.6	8.5	7.5	162.6	580.4	24.2	14.8	3.5	1.8		14.8	
30	705.9	17.4	6.6	5.9	221.9	361.2	21.0	13.6	3.3	1.8		6.6	
31		26.4		5.3	309.0		21.0		3.3	1.8		10.1	
Total	1160.7	7006.8	3981.1	1926.1	6051.9	49537.2	30830.7	14358.8	184.3	74.2	40.4	324.6	115476.8 Ton
Mean	38.7	226.0	132.7	62.1	195.2	1651.2	994.5	478.6	5.9	2.4	1.4	10.5	
Max	705.9	1404.9	1601.8	434.9	2478.0	12328.0	7974.3	3137.4	12.4	3.1	1.8	187.2	12328.0
Min	2.0	5.6	6.6	5.0	3.6	34.6	21.0	13.6	3.3	1.8	1.2	0.4	0.4

WATER YEAR 1996

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 - Cont'd
Actual Measurement	1986 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:24:39.11 LQS/LQS02D/12

Station - Ban Kaeng Yao, Kuchinarai, Kalasin, (E.54)
Stream - Nam Yang
River - Chi
River System - CHI

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 5.4425\ QW^{1.30125}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.3	1.4	0.6	58.5	9.2	385.2	973.9	58.5	12.5	2.2	2.5	1.9	
2	1.0	1.9	0.3	48.8	12.5	368.2	673.3	53.6	13.4	2.5	4.1	0.9	
3	0.8	3.1	0.3	39.6	5.4	443.1	454.9	68.5	10.9	2.2	2.2	0.6	
4	0.8	2.5	0.5	43.0	3.8	551.8	326.5	78.8	8.4	3.1	4.7	0.6	
5	0.7	2.5	1.8	56.0	5.2	696.1	326.5	138.1	9.2	2.2	3.4	0.4	
6	0.6	5.4	1.9	40.8	11.7	628.3	449.0	170.3	8.4	2.1	3.1	0.3	
7	0.4	11.7	1.7	28.8	37.4	490.7	521.1	184.6	6.9	1.9	2.8	0.3	
8	0.2	10.9	4.1	20.8	24.7	345.8	521.1	184.6	6.9	2.1	1.9	0.7	
9	0.2	11.7	12.5	10.0	56.0	213.1	476.7	175.0	6.2	2.1	1.5	0.6	
10	0.1	14.3	11.7	4.1	22.7	134.3	421.6	142.6	5.4	1.5	1.1	0.5	
11	0.1	17.0	13.4	4.3	160.9	92.2	348.6	120.4	5.4	1.5	1.4	0.3	
12	0.2	35.2	8.4	2.8	73.6	68.5	272.8	179.8	5.4	1.4	1.1	0.3	
13	0.2	35.2	10.9	2.8	123.3	153.2	213.1	236.5	4.4	1.5	0.9	0.3	
14	0.1	17.9	248.5	3.8	408.1	1023.6	156.3	248.5	4.1	1.5	0.9	0.1	
15	0.1	14.3	576.7	3.3	620.8	2510.8	142.6	213.1	3.4	1.5	0.9	0.0	
16	0.9	12.5	484.7	3.0	591.3	2423.3	120.4	165.6	3.1	1.7	0.8	0.4	
17	1.1	15.2	356.9	4.6	449.0	3376.4	116.0	111.7	2.8	2.1	0.6	0.7	
18	1.1	20.8	335.6	43.0	373.8	3912.9	103.3	86.8	4.1	1.9	0.4	1.0	
19	1.0	17.0	326.5	160.9	340.3	5349.6	116.0	68.5	3.4	2.1	0.2	0.5	
20	1.3	17.9	281.6	86.8	351.4	7983.0	99.1	53.6	2.8	1.8	0.4	0.5	
21	1.1	13.4	246.8	73.6	431.4	10375.1	73.6	41.9	1.7	1.5	0.6	0.5	
22	0.8	10.9	184.6	101.9	431.4	10725.7	58.5	35.2	3.1	1.5	0.4	14.3	
23	0.7	6.9	134.3	98.4	413.9	10185.1	65.9	28.8	2.5	1.7	0.3	1.4	
24	0.6	4.7	101.9	84.1	1365.0	12245.3	60.9	24.7	1.9	1.5	0.8	1.1	
25	0.6	3.4	65.9	76.2	2890.7	13850.0	56.0	19.8	2.2	1.3	1.0	0.8	
26	0.3	2.2	65.9	65.9	2037.1	12896.2	56.0	20.8	3.1	1.1	1.0	0.8	
27	0.2	3.4	119.7	51.2	1582.5	8525.6	56.0	17.0	2.5	1.9	0.9	1.1	
28	0.3	1.5	134.3	39.6	1274.1	3796.4	56.0	15.2	2.1	2.1	1.1	1.3	
29	0.3	0.9	92.2	33.1	982.1	2087.5	48.8	13.4	1.5	1.5		1.0	
30	1.1	0.7	51.2	26.8	742.1	1426.3	41.9	13.4	1.7	1.5		1.3	
31		0.7		16.1	521.1		60.9		1.7	1.9		1.5	
Total	18.2	317.1	3875.4	1332.6	16352.5	117263.3	7467.3	2969.3	151.1	56.4	41.0	36.0	149880.2 Ton
Mean	0.6	10.2	129.2	43.0	527.5	3908.8	240.9	99.0	4.9	1.8	1.5	1.2	
Max	1.3	35.2	576.7	160.9	2890.7	13850.0	973.9	248.5	13.4	3.1	4.7	14.3	13850.0
Min	0.1	0.7	0.3	2.8	3.8	68.5	41.9	13.4	1.5	1.1	0.2	0.0	0.0

WATER YEAR 1996

MUN RIVER BASIN

Lam Phra Phloeng at Ban Wang Takhian Thong, Nakhon Ratchasima (M.145)

Location	Lat. 14°29′28″ N., Long. 101°41′13″ E., on right bank at Ban Wang Takhian Thong, Amphoe Pak Chong, Nakhon Ratchasima.
Drainage Area	335 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1991 - 1996

RID Computer Center, Processing : 14-AUG-1998 09:24:50.40 LQS/LQS02D/12

Station - Ban Wang Takhian Thong, Pak Chong, Nakhon Ratchasima, (M.145)
Stream - Lam Phra Phloeng
River - Mun
River System - Mun

Royal Irrigation Department
Thailand
Hydrology Division 080597

$QS = 47.0935\ QW^{1.41383}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.7	40.6	152.9	129.9	112.4	388.7	25987.0	334.3	116.7	87.5	60.9	47.1	
2	15.2	64.6	260.2	112.4	108.1	299.4	39634.3	458.3	143.6	87.5	60.9	47.1	
3	10.7	57.4	186.8	103.9	103.9	1308.4	24832.6	2331.6	139.0	87.5	60.9	47.1	
4	6.6	47.1	201.9	217.4	103.9	524.5	8213.6	1135.8	134.4	83.5	60.9	47.1	
5	152.9	47.1	196.8	207.0	103.9	401.1	6804.1	3137.1	134.4	83.5	60.9	47.1	
6	191.8	53.9	186.8	352.2	103.9	3651.6	2398.7	1580.3	129.9	83.5	60.9	43.8	
7	83.5	57.4	172.0	565.4	103.9	4235.4	2869.8	1361.6	125.5	79.6	60.9	43.8	
8	47.1	57.4	227.9	707.9	103.9	5745.2	7469.8	707.9	125.5	79.6	60.9	40.6	
9	31.4	43.8	157.6	346.2	103.9	3955.0	4335.2	464.8	121.1	79.6	57.4	40.6	
10	28.4	37.4	271.2	243.9	176.9	3490.9	4435.6	401.1	121.1	75.8	57.4	40.6	
11	22.9	40.6	484.5	254.7	152.9	3253.8	2832.2	477.9	116.7	75.8	57.4	37.4	
12	53.9	43.8	1750.4	186.8	116.7	1085.4	922.4	859.5	116.7	75.8	57.4	37.4	
13	83.5	87.5	477.9	157.6	103.9	722.7	664.2	376.4	112.4	75.8	53.9	37.4	
14	64.6	143.6	593.1	148.2	103.9	565.4	511.0	394.9	112.4	75.8	53.9	37.4	
15	60.9	282.4	249.3	143.6	112.4	1238.5	426.3	334.3	108.1	75.8	53.9	34.4	
16	172.0	129.9	176.9	227.9	134.4	1255.9	364.2	305.2	108.1	75.8	57.4	34.4	
17	191.8	249.3	148.2	167.2	129.9	579.2	334.3	276.8	108.1	75.8	57.4	40.6	
18	72.0	737.5	382.6	134.4	243.9	464.8	316.7	271.2	108.1	72.0	57.4	40.6	
19	53.9	497.7	288.1	129.9	271.2	413.6	388.7	265.7	103.9	72.0	57.4	37.4	
20	364.2	4185.8	212.2	129.9	167.2	334.3	579.2	243.9	103.9	72.0	57.4	34.4	
21	243.9	3490.9	172.0	125.5	129.9	970.5	340.3	207.0	103.9	72.0	53.9	31.4	
22	134.4	1750.4	152.9	121.1	125.5	678.7	282.4	191.8	99.7	68.2	53.9	31.4	
23	79.6	388.7	143.6	116.7	129.9	413.6	260.2	186.8	95.6	68.2	53.9	40.6	
24	64.6	282.4	139.0	116.7	797.8	511.0	254.7	176.9	95.6	68.2	53.9	43.8	
25	60.9	249.3	125.5	116.7	607.1	471.4	276.8	176.9	95.6	68.2	53.9	47.1	
26	53.9	207.0	121.1	116.7	328.4	2907.6	419.9	172.0	91.5	64.6	50.5	47.1	
27	57.4	181.8	121.1	116.7	249.3	7091.3	328.4	167.2	91.5	64.6	50.5	47.1	
28	50.5	181.8	134.4	116.7	212.2	22570.7	265.7	143.6	91.5	64.6	50.5	53.9	
29	47.1	181.8	121.1	116.7	2720.2	39969.4	243.9	139.0	87.5	64.6		191.8	
30	43.8	162.4	116.7	116.7	2832.2	32906.1	243.9	125.5	87.5	64.6		87.5	
31		222.6		116.7	875.1		382.6		87.5	64.6		72.0	
Total	2561.1	14203.9	8124.7	5963.3	11668.7	142404.1	137618.8	17405.3	3417.0	2306.6	1586.5	1510.0	348770.0 Ton
Mean	85.4	458.2	270.8	192.4	376.4	4746.8	4439.3	580.2	110.2	74.4	56.7	48.7	
Max	364.2	4185.8	1750.4	707.9	2832.2	39969.4	39634.3	3137.1	143.6	87.5	60.9	191.8	39969.4
Min	6.6	37.4	116.7	103.9	103.9	299.4	243.9	125.5	87.5	64.6	50.5	31.4	6.6

WATER YEAR 1996

EAST COAST - GULF BASIN

Chanthaburi River at Ban Puk, Chanthaburi (Z.13)

Location Lat. 12°-45'-40" N., Long. 102°-08'-35" E., on left bank infront of Wat Ban Puk, Amphoe Makham, Chanthaburi.

Drainage Area	671 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1978 - 1986 , 1994 - Cont'd
Actual Measurement	1978 - 1986 , 1994 - Cont'd
Remarks	Continued Sediment Station
	Using Rating Curve Water Year 1978 - 1996

RID Computer Center, Processing : 14-AUG-1998 14:06:03.30 LQS/LQS02D/12

Station - Ban Puk, A. Makham, Chanthaburi, (Z.13)
Stream - Chanthaburi River
River - Chanthaburi
River System - East Coast-Gulf Basin

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 0.2879\ QW^{1.63683}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.56	54.45	41.24	124.88	113.96	1525.56	149.84	10.81	0.00	0.00	0.00	
2	0.00	0.41	55.54	37.54	103.44	98.33	2174.70	176.64	14.37	0.00	0.00	0.00	
3	0.00	0.09	52.29	39.37	87.10	153.83	1719.70	206.84	18.31	0.00	0.00	0.00	
4	0.00	0.00	47.05	38.45	101.73	168.14	1129.36	204.41	15.00	0.00	0.00	0.00	
5	0.00	0.00	44.11	54.45	71.84	199.58	669.57	176.64	7.65	0.00	0.00	0.00	
6	0.00	0.00	51.22	65.73	96.69	242.02	474.52	141.97	8.15	0.00	0.00	0.00	
7	0.00	0.00	52.29	48.08	141.97	185.67	462.96	115.76	6.24	0.00	0.00	0.00	
8	0.00	0.00	77.08	49.12	153.83	428.98	443.96	103.44	16.95	0.00	0.72	0.00	
9	0.00	0.00	93.45	75.75	119.37	638.88	344.40	85.54	5.80	0.00	2.01	0.00	
10	0.00	0.00	53.36	65.73	90.26	651.97	482.28	79.75	5.36	0.00	2.56	0.00	
11	0.00	0.00	51.22	75.75	74.44	656.35	478.39	82.46	2.56	0.00	0.29	0.00	
12	0.00	0.00	51.22	59.98	68.09	505.86	347.68	81.10	1.52	0.00	0.00	0.00	
13	0.00	0.00	59.98	59.98	66.90	385.24	482.28	106.90	1.29	0.00	0.00	0.00	
14	0.00	0.00	61.12	81.10	106.90	396.01	285.36	113.96	0.72	0.00	0.00	0.00	
15	0.00	0.00	54.45	58.86	219.16	710.34	214.20	81.10	0.41	0.00	0.00	0.00	
16	0.00	0.00	57.74	68.09	145.88	533.92	168.14	66.90	0.29	0.00	0.00	0.00	
17	0.00	57.74	73.13	69.27	101.73	367.57	140.03	56.64	0.18	0.00	0.00	0.00	
18	0.00	66.90	54.45	95.07	143.92	279.59	151.83	54.45	0.18	0.00	0.00	0.00	
19	0.00	46.06	73.13	201.99	474.52	294.11	157.87	44.11	0.09	0.00	0.00	0.00	
20	0.00	26.46	70.55	403.24	231.75	244.61	123.03	28.07	0.09	0.00	0.00	0.00	
21	0.00	35.73	65.73	300.00	201.99	197.19	98.33	15.00	0.00	0.00	0.00	0.00	
22	0.00	78.41	57.74	206.84	166.06	164.00	83.99	17.62	0.00	0.00	0.00	0.00	
23	0.00	157.87	103.44	174.42	130.48	170.22	75.75	14.37	0.00	0.00	0.00	0.00	
24	0.00	77.08	51.22	174.42	128.60	183.39	75.75	17.62	0.00	0.00	0.00	0.00	
25	0.00	56.64	58.86	219.16	331.43	170.22	70.55	18.31	0.00	0.00	0.00	0.00	
26	0.00	35.73	57.74	309.20	470.65	164.00	132.37	16.29	0.00	0.00	0.00	0.00	
27	0.00	29.71	51.22	309.20	263.08	226.68	138.10	13.75	0.00	0.00	0.00	0.00	
28	0.00	21.87	49.12	282.47	192.55	297.05	90.26	9.18	0.00	0.00	0.00	0.00	
29	0.00	20.41	49.12	211.73	174.42	341.14	75.75	11.95	0.00	0.00		0.00	
30	0.00	59.98	47.05	170.22	151.83	743.00	79.75	14.37	0.00	0.00		0.00	
31		65.73		147.85	124.88		209.28		0.00	0.00		0.00	
Total	0.00	837.38	1779.07	4194.30	5060.37	9911.85	13105.70	2304.98	115.97	0.00	5.58	0.00	37315.20 Ton
Mean	0.00	27.01	59.30	135.30	163.24	330.39	422.76	76.83	3.74	0.00	0.20	0.00	
Max	0.00	157.87	103.44	403.24	474.52	743.00	2174.70	206.84	18.31	0.00	2.56	0.00	2174.70
Min	0.00	0.00	44.11	37.54	66.90	98.33	70.55	9.18	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1994 - Cont'd
Actual Measurement	1994 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1988 - 1996

RID Computer Center, Processing : 14-AUG-1998 14:06:16.75 LQS/LQS02D/12

Station - Ban Pak Phraek, A. Pluak Daeng, Rayong, (Z.15)
Stream - Khlong Yai
River - Khlong Yai
River System - East Coast-Gulf Basin

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 7.7212\ QW^{1.28487}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.50	2.85	14.58	28.72	373.63	38.23	5.80	0.85	0.12	0.00	
2	0.00	0.00	6.94	2.38	12.12	20.65	126.80	161.13	5.61	0.73	0.05	0.00	
3	0.00	0.00	2.85	2.85	9.97	18.33	165.42	174.08	5.43	0.62	0.00	5.80	
4	0.00	0.00	1.64	4.18	8.73	30.33	77.84	50.50	5.06	0.62	0.00	3.67	
5	0.00	0.00	1.37	12.34	8.93	16.43	38.23	78.62	4.88	0.51	0.00	1.23	
6	0.00	0.00	3.17	17.85	35.62	21.76	27.14	72.47	4.53	0.51	0.00	0.62	
7	0.00	0.00	1.37	8.52	38.23	66.45	25.06	75.91	4.35	0.51	0.00	0.51	
8	0.00	0.00	0.98	21.76	50.50	77.06	19.91	57.63	4.01	0.40	0.00	0.40	
9	0.00	2.85	0.85	221.98	13.00	50.50	17.61	23.53	3.67	0.40	0.00	0.40	
10	0.00	26.62	6.94	27.14	10.82	105.28	20.28	19.18	3.33	0.30	0.00	0.21	
11	0.00	9.34	11.25	13.90	10.39	121.84	35.62	24.55	3.17	0.30	0.00	0.21	
12	0.00	66.45	3.50	14.81	8.73	29.79	112.41	23.53	3.01	0.21	0.00	0.12	
13	0.00	19.54	1.79	25.58	7.72	18.33	39.57	17.61	2.69	0.21	0.00	0.05	
14	0.00	12.78	1.50	23.53	6.74	16.90	74.01	17.85	2.85	0.05	0.12	0.00	
15	0.00	5.24	1.64	19.54	11.90	17.38	22.14	15.50	2.53	0.21	0.00	0.00	
16	0.00	3.01	1.23	36.92	12.12	17.14	16.43	13.67	2.53	0.30	0.00	0.00	
17	0.00	1.50	1.23	40.90	7.52	14.81	14.12	12.56	2.23	0.30	0.85	0.00	
18	17.61	1.23	4.18	54.75	6.55	13.45	13.67	11.68	1.93	0.12	0.00	0.00	
19	1.50	60.54	82.51	25.58	79.39	12.56	14.58	11.03	1.93	0.12	0.00	0.00	
20	0.21	182.84	82.51	18.81	75.53	11.46	76.31	10.39	1.79	0.05	0.00	0.00	
21	0.00	15.27	11.46	51.92	54.75	10.60	142.13	9.97	1.64	0.05	0.00	0.00	
22	0.00	7.13	7.33	23.02	99.65	10.18	63.47	9.34	1.50	0.05	0.00	0.00	
23	3.67	25.06	5.24	17.38	112.41	10.18	17.85	8.73	1.50	0.05	0.00	0.00	
24	0.73	3.17	6.74	15.27	22.14	9.76	19.18	8.12	1.23	0.05	0.00	0.00	
25	0.00	2.38	16.90	7.33	13.45	9.34	19.54	7.72	1.23	0.12	0.00	0.00	
26	0.00	2.38	8.73	4.70	31.95	9.14	215.46	7.33	1.10	0.12	0.00	0.00	
27	0.00	2.08	5.43	22.14	18.81	25.58	378.91	6.94	1.23	1.37	0.00	0.00	
28	0.00	1.79	4.01	25.58	75.91	82.51	76.69	6.74	0.98	0.51	0.00	0.00	
29	0.00	1.64	3.01	27.14	113.85	191.69	27.66	6.17	0.98	0.12		0.00	
30	0.00	1.23	3.01	17.85	144.21	465.60	26.62	5.80	0.98	0.12		0.00	
31		1.93		18.09	27.66		36.92		0.98	0.05		0.00	
Total	23.72	456.00	290.81	826.59	1143.88	1533.75	2335.21	986.51	84.68	9.93	1.14	13.22	7705.44 Ton
Mean	0.79	14.71	9.69	26.66	36.90	51.13	75.33	32.88	2.73	0.32	0.04	0.43	
Max	17.61	182.84	82.51	221.98	144.21	465.60	378.91	174.08	5.80	1.37	0.85	5.80	465.60
Min	0.00	0.00	0.85	2.38	6.55	9.14	13.67	5.80	0.98	0.05	0.00	0.00	0.00

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 18-AUG-1998 10:33:15.09 LQS/LQS02D/12

Station - Ban Chamkho, Klaeng, Rayong, (Z.18)
Stream - Khlong Phlo
River - Prasae
River System - East Coast-Gulf Basin

Royal Irrigation Department
Thailand
Hydrology Division
1.52071
QS = 3.1739 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	1.17	12.63	1.77	8.42	16.87	333.12	91.97	0.51	0.00	0.00	0.00	
2	0.48	1.21	5.58	3.17	5.88	15.03	282.07	237.60	0.27	0.00	0.00	0.00	
3	0.51	1.24	8.97	2.09	4.73	15.03	728.72	313.14	0.10	0.00	0.00	0.00	
4	0.51	1.28	13.89	5.29	3.93	16.36	164.28	132.27	0.07	0.00	0.00	0.00	
5	0.53	1.31	7.37	3.67	3.67	72.14	113.38	85.92	0.04	0.00	0.00	0.00	
6	0.53	1.39	3.93	9.53	16.19	113.38	67.83	63.61	0.02	0.00	0.00	0.00	
7	0.56	1.42	2.98	10.09	15.03	59.48	54.16	50.26	0.01	0.00	0.00	0.00	
8	0.59	1.46	4.46	129.85	16.19	75.98	55.44	17.04	0.00	0.00	0.00	0.00	
9	0.59	1.50	3.93	16.87	60.80	60.80	270.71	15.52	0.00	0.00	0.00	0.00	
10	0.62	1.53	7.37	13.89	134.70	407.43	407.43	14.37	0.00	0.00	0.00	0.00	
11	0.64	1.61	13.57	12.17	15.03	523.67	301.36	13.57	0.00	0.00	0.00	0.00	
12	0.64	1.65	10.67	10.67	12.48	289.73	113.38	11.71	0.00	0.00	0.00	0.00	
13	0.67	1.69	12.63	9.53	10.67	98.31	74.12	12.48	0.00	0.00	0.00	0.00	
14	0.70	1.77	8.97	8.42	7.37	89.99	63.61	17.73	0.00	0.00	0.00	0.00	
15	0.73	1.81	4.73	5.58	5.88	81.92	17.39	13.10	0.00	0.00	0.00	0.00	
16	0.73	1.85	3.67	4.19	5.01	69.21	15.52	11.71	0.00	0.00	0.00	0.00	
17	0.76	1.93	2.80	4.46	4.73	17.39	14.05	9.53	0.00	0.00	0.00	0.00	
18	0.79	1.97	64.96	5.58	8.42	15.52	14.05	7.89	0.00	0.00	0.00	0.00	
19	0.82	2.05	16.53	7.37	16.53	15.69	14.86	5.88	0.00	0.00	0.00	0.00	
20	0.85	2.09	46.46	70.74	270.71	14.37	13.41	5.01	0.00	0.00	0.00	0.00	
21	0.88	2.18	14.05	81.92	252.13	14.05	13.57	4.46	0.00	0.00	0.00	0.00	
22	0.88	2.26	11.41	15.52	127.45	12.79	11.86	3.93	0.00	0.00	0.00	0.00	
23	0.91	2.30	9.53	14.05	60.80	12.32	9.53	3.17	0.00	0.00	0.00	0.00	
24	0.94	2.39	6.86	13.26	16.02	12.63	15.36	2.98	0.00	0.00	0.00	0.00	
25	0.97	2.48	9.53	12.02	15.03	12.17	12.94	2.61	0.00	0.00	0.00	0.00	
26	1.01	2.52	6.36	12.79	106.87	11.56	16.70	2.43	0.00	0.00	0.00	0.00	
27	1.04	2.61	4.46	58.17	55.44	12.79	58.17	2.09	0.00	0.00	0.00	0.00	
28	1.07	2.43	3.67	16.70	289.73	187.17	14.21	1.46	0.00	0.00	0.00	0.00	
29	1.11	2.98	2.43	13.89	111.08	145.11	12.48	1.11	0.00	0.00		0.00	
30	1.14	2.80	2.09	12.17	190.10	153.23	14.21	0.79	0.00	0.00		0.00	
31		2.26		11.41	66.46		134.70		0.00	0.00		0.00	
Total	22.66	59.14	326.49	596.83	1917.48	2642.12	3432.62	1155.34	1.02	0.00	0.00	0.00	10153.70 Ton
Mean	0.76	1.91	10.88	19.25	61.85	88.07	110.73	38.51	0.03	0.00	0.00	0.00	
Max	1.14	2.98	64.96	129.85	289.73	523.67	728.72	313.14	0.51	0.00	0.00	0.00	728.72
Min	0.46	1.17	2.09	1.77	3.67	11.56	9.53	0.79	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1996

CHANTHABURI RIVER BASIN

Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1994 - Cont'd
Actual Measurement	1994 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994 - 1996

RID Computer Center, Processing : 14-AUG-1998 14:06:24.04 LQS/LQS02D/12

Station - Ban Rong Sen, A. Makham, Chanthaburi, (Z.21)
Stream - Khlong Hin Dat
River - Khlong Hin Dat
River System - East Coast-Gulf Basin

Royal Irrigation Department
Thailand
Hydrology Division

$$QS = 1.4610\ QW^{1.51417}$$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	1.25	7.02	4.75	18.00	128.98	356.05	47.73	2.13	0.85	0.42	0.30	
2	0.85	1.25	8.52	4.34	14.17	108.00	137.72	26.55	2.81	0.71	0.47	0.30	
3	1.08	1.82	6.08	9.04	12.37	101.96	165.82	23.58	1.82	0.64	0.38	0.78	
4	1.08	1.52	3.94	9.04	12.96	99.96	122.56	22.85	1.82	0.85	0.38	0.51	
5	1.08	2.13	4.75	8.52	11.79	131.15	79.45	21.43	1.52	0.64	0.47	0.38	
6	1.16	2.13	6.54	7.51	15.41	110.04	92.15	17.34	1.82	0.64	0.93	0.38	
7	1.08	1.25	7.51	5.63	243.08	151.70	67.73	11.22	1.25	0.64	0.93	0.38	
8	1.52	1.82	18.00	4.34	135.52	285.71	56.67	10.11	1.25	0.71	0.71	0.34	
9	3.17	1.52	27.31	5.18	50.65	174.51	37.32	8.52	1.16	0.64	0.64	0.34	
10	1.52	1.25	6.54	5.63	34.37	46.30	36.33	8.52	1.16	0.71	0.51	0.34	
11	1.16	1.00	5.63	5.18	26.55	37.32	30.57	8.01	1.16	0.57	0.51	0.30	
12	1.52	3.94	5.18	5.63	23.58	44.87	29.64	8.01	1.08	0.57	0.51	0.30	
13	1.52	3.94	10.66	4.75	27.31	34.37	29.64	9.57	1.08	0.85	1.08	0.57	
14	6.54	6.54	11.22	4.34	124.68	293.71	24.31	8.01	1.08	0.34	0.64	0.47	
15	3.94	3.17	10.11	4.34	49.19	128.98	23.58	6.54	0.93	0.47	0.57	0.47	
16	3.17	3.94	9.57	4.75	42.07	151.70	22.14	5.63	1.82	0.51	0.47	0.47	
17	1.82	6.08	16.05	5.63	99.96	74.35	21.43	5.63	1.52	0.51	0.51	0.38	
18	1.52	6.54	8.01	12.37	114.16	137.72	43.47	7.02	1.25	0.51	0.57	0.38	
19	1.52	5.63	16.05	22.85	112.09	101.96	64.51	4.75	1.25	0.47	0.42	0.42	
20	1.16	3.94	15.41	56.67	99.96	88.31	26.55	4.75	1.25	0.51	0.38	0.51	
21	1.25	9.04	15.41	28.86	97.99	94.08	21.43	4.34	1.16	0.51	0.34	0.51	
22	1.08	16.69	9.04	15.41	112.09	52.14	19.35	3.94	1.08	0.51	0.34	0.51	
23	1.16	3.55	29.64	16.05	118.33	94.08	20.03	3.55	1.08	0.47	0.34	0.57	
24	1.16	6.54	6.54	12.96	445.27	62.91	20.73	3.94	1.00	0.57	0.38	0.57	
25	1.52	5.63	10.11	177.43	801.73	44.87	22.85	3.94	0.93	0.47	0.34	0.57	
26	1.16	4.34	9.57	99.96	309.94	35.35	82.91	2.81	1.00	0.47	0.34	0.64	
27	3.55	3.94	6.54	88.31	186.31	39.33	27.31	2.81	0.85	0.64	0.34	0.57	
28	0.64	3.94	6.08	62.91	139.94	56.67	22.85	2.46	0.78	0.71	0.34	0.64	
29	1.82	10.66	5.18	40.70	133.33	94.08	20.73	2.13	0.85	0.51		0.51	
30	1.25	10.66	5.18	28.86	122.56	183.33	71.02	2.81	0.85	0.47		0.51	
31		6.54		24.31	148.92		105.97		0.85	0.38		0.57	
Total	52.25	142.19	307.39	786.25	3884.28	3188.44	1902.82	298.50	39.59	18.05	14.26	14.49	10648.51 Ton
Mean	1.74	4.59	10.25	25.36	125.30	106.28	61.38	9.95	1.28	0.58	0.51	0.47	
Max	6.54	16.69	29.64	177.43	801.73	293.71	356.05	47.73	2.81	0.85	1.08	0.78	801.73
Min	0.64	1.00	3.94	4.34	11.79	34.37	19.35	2.13	0.78	0.34	0.34	0.30	0.30

WATER YEAR 1996

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	US.D - 49
Period of Available Records	1986 - Cont'd
Actual Measurement	1986 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1986 - 1996

RID Computer Center, Processing : 14-AUG-1998 14:05:55.32 LQS/LQS02D/12

Station - Haew Narok, Muang, Prachin Buri, (NY.4)
Stream - Khlong Samopun
River - Mae Nam Nakhon Nayok
River System - Nakhon Nayok River

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 0.5280\ QW^{1.65114}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.03	3.24	8.97	44.18	33.20	260.06	19.58	0.81	0.04	0.02	0.01	
2	0.00	0.03	2.09	6.56	31.78	63.57	1022.65	36.47	0.71	0.04	0.02	0.01	
3	0.00	0.02	5.47	5.47	26.36	119.24	363.44	21.35	0.62	0.04	0.02	0.00	
4	0.00	0.03	3.53	7.14	612.90	145.08	170.82	19.58	0.53	0.04	0.02	0.00	
5	0.00	5.12	1.69	5.12	166.42	112.23	145.08	52.45	0.44	0.04	0.02	0.00	
6	0.00	0.19	1.15	6.56	193.88	70.63	247.32	59.02	0.29	0.04	0.02	0.00	
7	0.00	0.07	1.69	31.78	99.13	108.79	115.71	61.28	0.23	0.04	0.01	0.00	
8	0.00	0.53	5.12	36.47	80.89	99.13	75.51	27.68	0.19	0.04	0.01	0.00	
9	0.00	0.17	4.14	34.64	108.79	77.99	56.80	19.58	0.19	0.03	0.01	0.00	
10	0.00	0.08	3.83	13.87	75.51	75.51	59.02	20.46	0.17	0.03	0.01	0.00	
11	0.00	0.21	5.47	10.29	59.02	75.51	33.20	19.58	0.16	0.03	0.01	0.00	
12	0.00	0.19	6.19	10.29	50.33	61.28	23.81	25.07	0.14	0.03	0.01	0.00	
13	0.00	1.32	10.97	7.14	80.89	36.47	17.87	19.58	0.13	0.03	0.01	0.00	
14	0.00	2.99	14.64	5.47	184.31	126.42	13.87	13.87	0.11	0.03	0.01	0.00	
15	0.01	1.32	11.67	4.46	153.48	266.52	12.39	10.97	0.10	0.02	0.01	0.00	
16	0.01	1.03	13.87	3.53	89.82	230.21	9.62	8.97	0.08	0.02	0.01	0.00	
17	0.01	0.23	13.12	2.99	54.61	241.04	7.73	7.14	0.08	0.02	0.01	0.00	
18	0.01	0.92	19.58	38.34	40.25	306.60	6.19	6.19	0.08	0.02	0.01	0.00	
19	0.01	8.97	18.72	92.89	30.39	166.42	5.47	5.47	0.08	0.02	0.01	0.00	
20	0.01	9.62	14.64	126.42	22.57	137.49	4.79	4.46	0.07	0.02	0.01	0.00	
21	0.01	8.97	12.39	54.61	30.39	386.19	4.14	3.83	0.07	0.02	0.01	0.00	
22	0.02	4.14	8.34	27.68	29.02	224.87	3.24	3.24	0.06	0.02	0.01	0.00	
23	0.01	2.30	50.33	23.81	115.71	112.23	2.76	2.99	0.06	0.02	0.01	0.00	
24	0.01	1.69	95.99	22.57	842.20	149.25	2.30	2.76	0.06	0.02	0.01	0.00	
25	0.02	1.32	149.25	20.46	334.54	166.42	2.30	2.53	0.06	0.02	0.01	0.00	
26	0.02	1.32	63.57	44.18	153.48	86.80	1.69	2.09	0.05	0.02	0.01	0.00	
27	0.02	1.32	26.36	70.63	83.83	75.51	1.50	1.69	0.05	0.02	0.01	0.00	
28	0.02	46.19	34.64	50.33	95.99	119.24	1.32	1.32	0.05	0.02	0.01	0.00	
29	0.02	10.97	16.23	61.28	92.89	170.82	1.15	1.15	0.04	0.02		0.00	
30	0.02	11.67	13.12	89.82	70.63	313.50	1.15	0.92	0.04	0.02		0.01	
31		5.82		56.80	46.19		7.73		0.04	0.02		0.00	
Total	0.23	128.78	631.04	980.57	4100.38	4358.16	2680.63	481.27	5.79	0.84	0.34	0.03	13368.06 Ton
Mean	0.01	4.15	21.03	31.63	132.27	145.27	86.47	16.04	0.19	0.03	0.01	0.00	
Max	0.02	46.19	149.25	126.42	842.20	386.19	1022.65	61.28	0.81	0.04	0.02	0.01	1022.65
Min	0.00	0.02	1.15	2.99	22.57	33.20	1.15	0.92	0.04	0.02	0.01	0.00	0.00

WATER YEAR 1996

MAE KLONG RIVER BASIN

Huai Tha Khoei at Ban Kha Ratchaburi (K.25A)

Location	Lat. 13°-24′-07″ N., Long. 99°-25′-14″ E., on right bank about 8 kilometers upstream from station K.25A, Amphoe Suan Phung, Ratchaburi.
Drainage Area	250 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1994 - Cont'd
Actual Measurement	1994 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:38:08.41 LQS/LQS02D/12

Station - Ban Kha, A.Suan Phung, Ratchaburi, (K.25A)
Stream - Huai Tha Khoei
River - Lam Pha Chi
River System - Mae Klong

Royal Irrigation Department
Thailand
Hydrology Division 221295
1.69917
QS = 4.9658 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	2.7	8.8	3.8	227.7	242.5	13957.8	1136.4	39.7	3.4	0.9	0.3	
2	0.2	2.4	4.2	3.0	140.8	250.1	3860.7	1225.3	39.7	3.4	0.9	0.3	
3	0.2	1.7	3.4	3.4	102.8	140.8	1881.1	1317.1	37.8	3.4	0.9	0.3	
4	1.7	1.7	5.4	2.7	77.0	362.9	1107.3	1379.7	32.7	3.0	0.6	0.3	
5	0.7	1.5	6.4	2.4	64.9	265.5	855.2	855.2	29.4	2.7	0.6	0.2	
6	0.5	3.4	8.2	7.0	56.9	220.4	599.2	566.8	24.9	2.4	0.6	0.2	
7	0.6	4.6	5.4	3.0	45.9	151.7	1754.8	386.9	37.8	2.4	0.5	0.2	
8	0.4	2.1	6.4	2.4	45.9	1286.2	2011.1	342.5	24.9	2.4	0.5	0.2	
9	0.4	2.7	5.0	2.1	36.0	5600.3	1444.4	332.4	22.0	2.1	0.5	0.2	
10	0.4	3.0	10.1	1.9	31.0	2482.7	879.2	227.7	19.8	2.1	0.5	0.2	
11	0.3	1.5	4.6	1.9	36.0	833.5	790.9	174.4	17.8	1.9	0.4	0.2	
12	0.2	2.1	3.8	1.9	52.4	386.9	1683.7	213.2	16.8	1.9	0.4	0.2	
13	0.2	2.7	3.4	1.9	26.3	250.1	1286.2	135.5	14.9	1.7	0.4	0.4	
14	0.4	4.6	5.0	7.6	19.8	374.9	1028.9	5506.3	13.1	1.7	0.4	0.4	
15	0.5	1.7	3.8	7.6	17.8	728.7	749.2	1477.7	11.5	1.5	0.4	0.3	
16	0.4	4.2	1545.1	3.8	15.9	519.6	519.6	615.7	10.8	1.5	0.4	0.2	
17	0.4	98.4	206.1	2.7	59.2	399.2	386.9	386.9	10.1	1.5	0.4	0.2	
18	0.7	11.5	56.9	17.8	24.9	332.4	303.0	352.6	10.1	1.3	0.4	0.2	
19	19.8	10.1	37.8	5.8	32.7	274.7	235.1	284.0	9.4	1.3	0.4	0.2	
20	1.5	24.9	34.3	4.2	23.4	235.1	519.6	220.4	8.8	1.1	0.4	0.2	
21	0.9	116.4	23.4	3.0	26.3	174.4	293.4	180.3	7.6	1.1	0.4	0.2	
22	0.9	140.8	17.8	2.7	29.4	140.8	332.4	111.8	7.0	1.1	0.4	0.2	
23	0.7	50.2	14.0	3.8	16.8	111.8	220.4	116.4	6.4	1.1	0.4	0.2	
24	0.5	26.3	11.5	3.8	24.9	94.2	168.6	102.8	5.8	1.0	0.4	0.2	
25	0.4	16.8	10.8	34.3	62.0	80.2	180.3	89.9	5.4	1.0	0.3	0.2	
26	0.6	11.5	9.4	833.5	94.2	70.9	7628.5	73.9	5.0	0.9	0.3	0.1	
27	1.3	9.4	8.2	2802.0	86.6	102.8	3935.3	67.9	4.6	0.9	0.3	0.1	
28	3.4	8.2	7.0	8015.9	56.9	265.5	1579.3	56.9	4.6	0.9	0.3	0.1	
29	8.2	9.4	5.4	2011.1	45.9	8146.8	879.2	50.2	4.2	0.9		0.1	
30	8.8	6.4	4.6	728.7	43.8	81306.0	1080.9	43.8	4.2	0.9		0.1	
31		7.0		475.8	67.9		1511.2		3.8	0.9		0.1	
Total	55.4	589.9	2076.2	15001.5	1692.0	105831.6	53663.4	18030.6	490.6	53.4	13.3	6.5	197504.4 Ton
Mean	1.8	19.0	69.2	483.9	54.6	3527.7	1731.1	601.0	15.8	1.7	0.5	0.2	
Max	19.8	140.8	1545.1	8015.9	227.7	81306.0	13957.8	5506.3	39.7	3.4	0.9	0.4	81306.0
Min	0.2	1.5	3.4	1.9	15.9	70.9	168.6	43.8	3.8	0.9	0.3	0.1	0.1

WATER YEAR 1996

MAE KLONG RIVER BASIN

Khwae Yai River at Ban Tha Manao, Kanchanaburi (K.36)

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.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 14:06:42.65 LQS/LQS02D/12

Station - Ban Tha Manao,A.Muang,Kanchanaburi, (K.36)
Stream - Khwae Yai
River - Mae Klong
River System - Mae Klong

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 6.1311\ QW^{0.77165}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.11	63.77	365.57	188.79	90.84	122.36	550.13	468.89	285.19	16.47	488.95	454.14	
2	514.14	244.19	270.03	452.29	185.70	422.98	320.85	347.08	297.71	286.86	435.50	56.55	
3	524.83	266.63	429.99	463.38	204.22	322.60	134.67	29.92	256.35	259.79	446.71	389.19	
4	492.58	319.08	488.95	461.53	76.20	454.14	40.37	249.42	261.50	258.07	459.69	497.99	
5	220.79	227.32	470.73	450.43	21.88	363.73	37.91	437.37	163.57	21.88	476.22	371.06	
6	143.69	28.73	459.69	188.79	108.27	365.57	268.33	490.77	31.09	160.34	490.77	488.95	
7	130.10	459.69	459.69	17.18	244.19	146.65	179.46	487.14	301.31	308.45	306.67	492.58	
8	228.94	303.10	380.16	101.11	339.61	137.69	152.54	503.39	28.73	191.87	168.38	399.95	
9	419.46	428.24	37.91	230.56	472.56	224.06	86.33	478.04	472.56	415.94	185.70	240.68	
10	499.80	237.16	15.76	194.94	467.06	273.42	152.54	424.74	117.65	419.46	185.70	270.03	
11	261.50	109.68	455.99	106.85	36.80	330.19	256.35	474.39	468.89	142.19	419.46	512.36	
12	74.85	101.11	463.38	48.27	19.90	308.45	283.52	490.77	394.58	20.90	448.57	488.95	
13	109.68	196.47	485.33	63.77	177.89	266.63	261.50	490.77	332.08	139.20	481.69	442.98	
14	31.09	403.52	437.37	29.92	310.23	219.15	204.22	499.80	363.73	415.94	481.69	492.58	
15	63.77	426.49	270.03	158.71	286.86	184.14	378.34	474.39	23.80	209.24	481.69	474.39	
16	245.94	470.73	37.91	215.86	433.62	326.41	444.85	415.94	245.94	320.85	410.63	463.38	
17	281.84	448.57	485.33	326.41	457.84	455.99	490.77	33.41	419.46	457.84	352.66	476.22	
18	292.30	470.73	448.57	210.90	70.76	496.19	483.51	201.03	252.89	249.42	363.73	450.43	
19	492.58	67.99	403.52	235.40	215.86	408.86	286.86	215.86	280.16	52.08	387.39	474.39	
20	470.73	254.62	220.79	146.65	280.16	337.73	228.94	380.16	258.07	179.46	227.32	485.33	
21	35.68	487.14	452.29	50.82	209.24	367.40	483.51	405.30	139.20	465.22	252.89	479.87	
22	254.62	389.19	463.38	111.29	356.36	37.91	488.95	371.06	222.43	422.98	276.80	510.57	
23	476.22	270.03	123.92	108.27	292.30	330.19	270.03	372.88	50.82	490.77	271.73	450.43	
24	264.92	446.71	278.48	207.57	78.88	356.36	508.78	295.91	233.79	332.08	283.52	390.99	
25	459.69	459.69	461.53	123.92	20.90	398.17	455.99	487.14	256.35	233.79	313.78	490.77	
26	356.36	275.11	485.33	105.42	128.56	488.95	215.86	276.80	182.59	102.56	374.71	497.99	
27	268.33	457.84	465.22	155.45	426.49	374.71	22.85	270.03	222.43	168.38	433.62	350.80	
28	109.68	435.50	470.73	93.81	478.04	301.31	247.68	264.92	39.01	361.89	399.95	224.06	
29	374.71	467.06	459.69	17.18	485.33	149.60	485.33	266.63	29.92	371.06		184.14	
30	232.18	454.14	25.68	12.05	499.80	399.95	463.38	261.50	137.69	428.24		207.57	
31		429.99		37.91	140.70		365.57		22.85	455.99		299.51	
Total	8606.11	10100.22	10772.95	5315.43	7617.05	9371.49	9249.92	10865.45	6792.34	8359.21	10306.12	12508.83	109865.13 Ton
Mean	286.87	325.81	359.10	171.47	245.71	312.38	298.38	362.18	219.11	269.65	368.08	403.51	
Max	524.83	487.14	488.95	463.38	499.80	496.19	550.13	503.39	472.56	490.77	490.77	512.36	550.13
Min	31.09	28.73	15.76	12.05	19.90	37.91	22.85	29.92	22.85	16.47	168.38	56.55	12.05

WATER YEAR 1996

MAE KLONG RIVER BASIN

Khwae Noi River 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.

Method of Sampling — Depth Integrating

Instrument Used — US.D - 49

Period of Available Records — 1996

Actual Measurement — 1996

Remarks — Continued Sediment Station

Using Rating Curve Water Year 1996

RID Computer Center, Processing : 26-AUG-1998 14:38:16.17 — LQS/LQS02D/12

Station - Ban Wang Yen, Muang, Kanchanaburi, (K.37)
Stream - Khwae Noi
River - Mae Klong
River System - Mae Klong

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 0.0349\ QW^{1.95345}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1483.8	1662.1	2668.3	1134.9	7738.1	9261.0	161940.0	12181.2	4385.0	602.4	2379.5	1714.9	
2	313.0	1292.1	3555.1	1905.9	8665.1	6475.5	183758.0	10753.6	3294.3	386.3	2195.9	1483.8	
3	2256.3	521.4	3367.8	2195.9	7947.5	7395.2	129537.4	9185.4	1070.6	313.0	1070.6	1338.8	
4	2442.3	1662.1	3078.5	2668.3	6475.5	11837.5	81321.4	11498.6	1822.9	467.1	532.6	1178.8	
5	2166.0	1850.3	2473.9	2768.2	4815.3	14911.8	42983.3	9566.2	2938.6	1028.8	1584.5	1822.9	
6	1584.5	521.4	2226.0	3114.0	2973.3	17599.2	28852.0	10270.5	3517.3	850.6	1741.6	1768.5	
7	1962.3	202.9	2570.2	2734.7	4870.5	22793.9	21748.5	10191.0	1070.6	295.8	1990.8	1934.0	
8	794.9	456.6	3114.0	1070.6	5915.7	17392.7	18331.3	9876.2	3294.3	1070.6	1610.2	2048.4	
9	488.5	1292.1	3114.0	741.0	7807.6	17911.2	26023.4	10430.3	3294.3	701.8	578.7	1822.9	
10	1362.4	1338.8	3078.5	1850.3	9336.8	17187.4	25608.9	9798.2	2048.4	767.7	532.6	1362.4	
11	1990.8	1533.7	435.9	2379.5	9489.4	19511.2	21405.3	7126.3	2106.8	831.8	456.6	987.8	
12	1610.2	1610.2	831.8	1962.3	8088.6	10999.2	15980.5	4490.8	2106.8	663.6	1636.0	1850.3	
13	1741.6	689.0	2379.5	1688.4	3078.5	10672.3	13604.0	7126.3	2473.9	488.5	2048.4	1741.6	
14	689.0	425.8	3008.1	1386.3	1714.9	10033.0	11667.4	7260.2	2410.8	488.5	1714.9	1636.0	
15	602.4	1850.3	2904.1	676.2	5094.2	10591.4	9798.2	9185.4	2166.0	676.2	2348.4	1905.9	
16	663.6	2226.0	2348.4	714.7	6797.1	15490.2	11837.5	8302.5	1459.1	555.4	1636.0	2410.8	
17	1795.6	2106.8	1741.6	2106.8	7738.1	15296.2	11247.6	6099.6	555.4	567.0	947.5	1768.5	
18	2317.5	927.7	813.2	2379.5	6797.1	14721.4	10270.5	2938.6	1662.1	1091.9	741.0	1795.6	
19	2505.8	1822.9	2668.3	2317.5	6475.5	16079.4	9954.5	2317.5	1134.9	1070.6	1246.1	2195.9	
20	2570.2	781.2	3221.6	2379.5	2442.3	17911.2	8159.6	2768.2	1070.6	741.0	1292.1	2019.5	
21	2635.4	727.8	3114.0	2505.8	4385.0	18437.1	5207.9	2570.2	1292.1	425.8	1508.6	2379.5	
22	1386.3	1559.0	3185.5	1201.0	5438.9	17599.2	5380.7	2286.8	1091.9	1269.0	1315.3	2106.8	
23	1459.1	1905.9	3367.8	544.0	5380.7	13604.0	8230.9	3874.9	435.9	1091.9	888.8	2505.8	
24	1662.1	1741.6	2869.8	967.6	5322.8	10111.9	7260.2	3776.6	279.2	927.7	1292.1	2195.9	
25	2286.8	1795.6	1434.6	908.2	4760.4	9798.2	3442.2	2019.5	386.3	1362.4	850.6	927.7	
26	1878.0	2256.3	3149.6	5207.9	4870.5	9110.2	6223.6	1201.0	488.5	1410.4	1410.4	2195.9	
27	2136.3	1795.6	3479.6	24662.6	3479.6	12883.0	7531.4	3043.2	499.4	741.0	1962.3	1905.9	
28	1905.9	1386.3	3479.6	58079.3	6161.4	12972.1	5322.8	4597.7	425.8	339.6	1688.4	1962.3	
29	689.0	2226.0	3257.8	91586.1	8446.6	19078.0	3114.0	4981.7	467.1	727.8		1636.0	
30	488.5	2106.8	2570.2	56773.5	8738.5	58079.3	5674.9	4651.6	590.4	794.9		1905.9	
31		1822.9		17806.9	9489.4		8738.5		405.8	701.8		2048.4	
Total	47868.1	44097.2	79507.3	298417.4	190734.9	465743.9	910156.3	194369.8	50245.1	23450.9	39200.5	56557.4	2400349.0 Ton
Mean	1595.6	1422.5	2650.2	9626.4	6152.7	15524.8	29359.9	6479.0	1620.8	756.5	1400.0	1824.4	
Max	2635.4	2256.3	3555.1	91586.1	9489.4	58079.3	183758.0	12181.2	4385.0	1410.4	2379.5	2505.8	183758.0
Min	313.0	202.9	435.9	544.0	1714.9	6475.5	3114.0	1201.0	279.2	295.8	456.6	927.7	202.9

WATER YEAR 1996

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 - Cont'd
Actual Measurement	1986 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1986 - 1996

RID Computer Center, Processing : 26-AUG-1998 14:38:25.23 LQS/LQS02D/12

Station - Ban Kariang, Tha Yang, Phetchaburi, (B.8)
Stream - Huai Phak
River - Phetchaburi
River System - Phetchaburi

Royal Irrigation Department
Thailand
Hydrology Division 221295

QS = $3.8537\ QW^{1.40143}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.58	0.32	0.52	17.63	15.34	490.30	443.57	3.85	0.35	4.69	2.82	
2	0.00	2.82	10.32	0.40	9.90	25.40	217.89	443.57	6.80	0.35	4.69	2.82	
3	0.00	1.54	3.32	0.58	7.12	16.31	244.41	512.07	7.84	0.35	4.40	2.82	
4	0.00	1.22	2.34	0.38	4.98	34.72	162.68	835.42	5.27	0.46	4.40	2.34	
5	0.00	4.69	1.71	0.32	3.07	22.48	119.57	323.53	4.13	1.14	4.69	2.11	
6	0.00	15.83	2.11	0.30	2.11	13.92	115.55	227.74	3.32	1.30	4.98	1.71	
7	0.00	13.92	1.22	0.32	1.80	15.34	201.61	282.25	2.82	1.22	5.57	1.71	
8	0.00	4.13	0.99	0.35	1.54	63.20	115.55	153.30	1.88	1.22	4.98	1.46	
9	0.00	2.34	1.07	0.30	2.34	54.71	119.57	121.75	1.88	1.14	3.85	1.30	
10	0.00	1.88	1.07	0.40	12.08	99.85	193.60	76.57	1.62	1.07	3.59	0.92	
11	0.00	3.59	1.14	0.71	14.39	31.72	139.52	58.91	1.54	0.99	3.32	0.92	
12	0.00	1.62	0.78	0.58	9.47	15.83	96.03	78.10	1.38	1.22	3.32	0.71	
13	0.00	1.38	0.58	0.78	5.87	10.76	83.00	44.18	1.30	1.22	3.07	0.85	
14	0.00	1.46	0.58	0.65	3.59	9.90	137.26	32.71	1.14	1.07	2.82	0.71	
15	0.00	1.30	0.65	0.52	3.07	9.90	83.00	123.93	1.07	0.92	2.82	0.65	
16	0.00	1.07	4.40	0.92	2.82	8.24	49.70	88.52	0.92	1.54	2.82	0.71	
17	0.00	0.78	5.57	1.80	6.80	7.45	32.71	50.83	0.85	3.85	2.82	0.52	
18	0.00	0.92	1.80	1.38	10.32	6.18	26.14	42.02	0.85	4.40	2.82	0.38	
19	0.09	3.07	1.88	0.92	22.48	5.27	22.48	34.72	0.78	4.13	2.82	0.38	
20	0.85	3.07	2.11	0.65	15.34	4.40	36.76	23.93	0.65	4.69	2.82	0.32	
21	0.40	1.62	1.62	0.52	21.06	3.32	83.00	17.63	0.58	4.98	2.82	0.15	
22	0.35	4.13	1.62	0.40	13.45	2.82	40.95	14.39	0.52	4.69	2.58	0.17	
23	0.32	1.71	1.46	0.40	12.99	2.34	26.89	12.08	0.46	4.13	2.58	0.20	
24	0.32	1.30	0.99	0.46	9.06	1.88	20.36	10.76	0.46	4.13	2.58	0.07	
25	0.32	0.99	0.78	0.99	12.08	2.58	16.31	10.76	0.46	4.13	2.11	0.03	
26	0.32	0.78	0.71	12.99	16.97	3.32	101.78	9.47	0.40	4.13	2.11	0.01	
27	0.32	0.65	0.58	23.20	12.99	13.45	180.46	7.84	0.38	3.85	2.82	0.01	
28	0.32	0.58	0.38	170.15	10.32	51.96	103.71	6.49	0.38	4.98	2.58	0.04	
29	0.30	0.40	0.38	78.10	7.84	128.33	64.65	5.87	0.35	5.57		0.09	
30	8.65	0.35	0.52	42.02	5.87	1299.47	856.67	4.69	0.35	5.27		0.13	
31		0.32		29.95	6.80		892.43		0.35	4.98		0.17	
Total	12.56	82.04	53.00	371.96	286.15	1980.39	5074.54	4097.60	54.58	83.47	95.47	27.23	12218.99 Ton
Mean	0.42	2.65	1.77	12.00	9.23	66.01	163.69	136.59	1.76	2.69	3.41	0.88	
Max	8.65	15.83	10.32	170.15	22.48	1299.47	892.43	835.42	7.84	5.57	5.57	2.82	1299.47
Min	0.00	0.32	0.32	0.30	1.54	1.88	16.31	4.69	0.35	0.35	2.11	0.01	0.00

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)

Location	Lat. 9°-01'-46" N., Long. 98°-58'-00" E., on left bank at Ban Tha Khanon, Amphoe Khiri Ratthanikhom, Surat Thani.
Drainage Area	3,012 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:25:01.37 LQS/LQS02D/12

Station - Khiri Ratthanikhom, Khiri Ratthanikhom, Surat Thani, (X.36)
Stream - Khlong Phum Duang
River - Tapi
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 0.6495\ QW^{1.44977}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.7	161.9	36.7	40.0	287.0	1123.7	6263.5	967.4	664.8	105.6	299.4	48.8	
2	29.5	169.8	141.5	26.5	299.4	1063.3	4709.4	931.3	458.5	101.0	267.9	50.2	
3	23.9	175.1	71.1	107.9	312.4	1033.5	2580.8	938.5	1351.0	96.6	241.8	77.2	
4	35.0	134.1	61.6	79.3	75.2	2594.6	2608.5	931.3	1343.0	96.6	283.2	73.1	
5	53.0	67.5	90.0	81.4	73.1	3128.8	2580.8	902.7	1100.9	94.3	290.9	161.9	
6	32.6	27.2	144.0	77.2	90.0	1681.8	2484.8	1146.6	804.9	90.0	352.3	119.5	
7	20.7	25.0	141.5	47.5	98.8	982.0	2177.5	945.7	770.8	90.0	208.1	58.7	
8	19.1	81.4	149.1	126.7	96.6	902.7	1816.0	1033.5	2608.5	87.8	220.2	134.1	
9	19.6	29.5	144.0	303.7	58.7	1169.6	1633.5	967.4	3295.6	87.8	92.1	154.2	
10	10.9	25.0	129.2	329.9	697.4	2920.8	1481.9	982.0	13276.9	234.5	159.3	287.0	
11	17.6	23.9	223.7	234.5	2594.6	2720.5	1375.3	902.7	11630.7	154.2	442.4	491.6	
12	15.2	21.7	169.8	245.5	1454.0	2720.5	1343.0	770.8	8781.8	144.0	453.1	223.7	
13	10.1	47.5	410.7	227.3	846.4	3731.9	1239.6	784.3	4062.1	134.1	594.9	112.5	
14	13.0	67.5	279.3	283.2	576.2	3994.2	1712.1	664.8	1956.8	121.9	867.4	230.9	
15	10.9	117.2	154.2	94.3	551.6	1826.5	2791.5	1085.8	1566.6	110.2	867.4	469.3	
16	6.4	121.9	42.1	321.1	347.8	1576.1	2734.7	607.4	1108.5	98.8	185.9	287.0	
17	12.5	81.4	87.8	303.7	347.8	1302.9	2093.9	271.7	690.8	85.6	230.9	426.4	
18	10.1	48.8	54.4	279.3	264.1	1287.0	1614.3	256.6	697.4	71.1	175.1	329.9	
19	8.9	23.3	66.0	275.5	194.2	1576.1	1753.4	539.4	521.4	66.0	83.5	400.3	
20	13.4	22.8	35.0	264.1	156.7	1566.6	1169.6	684.3	533.4	61.6	161.9	299.4	
21	13.8	199.7	107.9	48.8	161.9	1566.6	2002.2	1774.2	533.4	117.2	83.5	299.4	
22	21.7	85.6	67.5	47.5	141.5	1604.7	2002.2	4288.7	279.3	199.7	50.2	384.8	
23	94.3	40.0	22.3	47.5	370.5	1566.6	1538.2	2791.5	260.4	202.5	48.8	463.9	
24	79.3	40.8	20.2	230.9	194.2	1055.8	1093.4	2301.3	234.5	151.6	47.5	539.4	
25	96.6	53.0	63.1	723.8	245.5	1968.1	1302.9	3009.3	223.7	79.3	67.5	365.9	
26	103.3	103.3	213.8	299.4	4011.2	1934.3	671.3	3480.5	210.9	60.1	85.6	356.8	
27	159.3	35.8	220.2	134.1	2820.1	2877.5	312.4	2471.2	196.9	146.5	129.2	365.9	
28	213.8	75.2	112.5	87.8	2047.9	6679.6	303.7	1547.6	149.1	146.5	119.5	283.2	
29	110.2	36.7	35.8	167.2	2002.2	7135.9	453.1	1375.3	126.7	151.6		256.6	
30	61.6	75.2	27.2	167.2	1662.4	6162.4	690.8	1026.1	114.8	183.2		161.9	
31		85.6		283.2	846.4		909.8		107.9	410.7		98.8	
Total	1331.0	2303.4	3522.2	5986.0	23925.8	71454.6	57444.1	40379.9	59662.0	3980.6	7109.5	8012.3	285111.4 Ton
Mean	44.4	74.3	117.4	193.1	771.8	2381.8	1853.0	1346.0	1924.6	128.4	253.9	258.5	
Max	213.8	199.7	410.7	723.8	4011.2	7135.9	6263.5	4288.7	13276.9	410.7	867.4	539.4	13276.9
Min	6.4	21.7	20.2	26.5	58.7	902.7	303.7	256.6	107.9	60.1	47.5	48.8	6.4

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai, Chumphon (X.53A)

Location	Lat. 10°-30′-20″ N., Long. 99°-07′-12″ E., on left bank about 9.50 kilometers downstream from X.53 station, Amphoe Muang, Chumphon.
Drainage Area	305 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:25:28.59 — LQS/LQS02D/12

Station - Ban Wang Phai, A. Muang, Chumphon, (X.53A)
Stream - Khlong Chumphon
River - Khlong Chumphon
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 070797
1.26681
QS = 2.0743 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.69	3.03	1.94	3.18	124.08	41.62	501.86	42.52	64.08	15.65	7.99	4.99	
2	1.56	2.61	5.73	3.03	74.54	34.64	236.02	39.41	187.59	15.33	7.71	4.99	
3	1.82	3.76	3.47	2.89	50.25	30.84	134.68	38.54	183.19	15.05	7.47	4.99	
4	2.34	3.76	2.75	11.56	38.97	40.29	88.94	77.34	178.82	14.73	10.70	4.99	
5	2.21	10.70	3.61	4.37	34.64	169.26	109.71	54.45	130.58	14.46	7.99	4.83	
6	2.61	8.52	30.84	3.47	36.36	67.35	92.14	43.41	102.67	14.14	7.47	4.83	
7	2.21	4.68	11.82	3.61	30.00	51.64	98.03	41.18	274.53	13.86	7.20	4.68	
8	2.48	3.61	4.83	3.91	31.25	50.25	60.85	57.77	475.71	13.55	7.20	4.52	
9	2.21	2.89	3.76	4.21	29.59	71.75	49.33	42.07	187.59	13.28	6.96	4.37	
10	2.48	2.48	3.61	3.61	39.41	316.34	43.41	36.79	117.65	12.97	6.69	4.21	
11	2.21	6.19	3.03	3.61	25.51	317.40	38.10	33.36	87.67	12.70	6.19	4.06	
12	2.07	3.47	2.75	3.61	20.80	218.99	34.64	29.59	70.65	12.39	6.19	3.91	
13	2.07	3.47	2.89	3.32	19.65	218.08	84.50	27.13	59.25	12.12	6.19	3.76	
14	2.34	3.47	2.75	3.47	20.41	209.01	157.27	23.52	50.71	11.82	6.19	3.61	
15	2.75	3.47	29.18	3.32	17.77	147.14	79.60	23.13	45.67	11.56	6.19	3.47	
16	2.61	3.47	6.19	3.76	23.13	106.57	53.98	30.00	41.18	11.25	5.96	3.32	
17	2.21	7.47	4.21	4.52	16.30	83.87	42.96	23.52	38.10	10.99	5.96	3.32	
18	2.21	4.37	3.47	12.70	14.14	69.54	38.10	171.86	35.07	10.44	5.96	3.61	
19	2.48	3.47	3.18	4.83	14.46	71.75	33.36	1798.85	32.52	10.14	5.96	3.47	
20	2.34	3.47	3.32	3.91	23.52	61.39	35.93	468.95	30.84	9.89	5.73	4.06	
21	2.07	3.47	3.03	3.91	25.91	50.25	59.79	231.05	27.94	9.59	5.47	3.76	
22	1.94	3.47	2.75	9.05	17.77	42.52	47.49	133.86	26.32	9.30	5.25	3.61	
23	1.94	3.61	2.61	254.11	27.13	38.54	75.65	89.58	25.11	9.05	4.99	3.76	
24	2.21	4.21	2.48	1302.30	37.23	56.81	148.82	84.50	23.92	8.77	6.19	3.61	
25	2.21	3.61	3.32	231.05	323.78	77.34	60.85	166.68	22.74	8.52	7.20	3.47	
26	2.21	3.47	7.99	61.39	349.42	101.11	57.29	831.31	21.96	8.24	8.24	3.32	
27	2.21	3.47	4.06	37.23	221.73	195.57	278.66	276.59	20.03	7.99	9.05	3.18	
28	2.34	3.32	3.18	32.09	98.03	258.17	111.29	153.03	18.52	8.24	8.52	3.03	
29	2.61	3.03	2.89	211.72	62.46	444.15	67.35	98.80	17.03	9.05		2.89	
30	3.03	2.34	2.75	1177.37	48.87	592.38	61.93	73.42	16.30	8.77		2.89	
31		2.07		274.53	46.12		51.18		15.93	8.24		2.89	
Total	67.67	124.43	168.39	3685.64	1943.23	4234.56	3033.71	5242.21	2629.87	352.08	192.81	120.40	21795.00 Ton
Mean	2.26	4.01	5.61	118.89	62.68	141.15	97.86	174.74	84.83	11.36	6.89	3.88	
Max	3.03	10.70	30.84	1302.30	349.42	592.38	501.86	1798.85	475.71	15.65	10.70	4.99	1798.85
Min	1.56	2.07	1.94	2.89	14.14	30.84	33.36	23.13	15.93	7.99	4.99	2.89	1.56

WATER YEAR 1996

SOUTHERN PENNINSULA 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, Amphoe Tha Sae, Chumphon.
Drainage Area	957 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1996
Actual Measurement	1996
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:25:43.92 LQS/LQS02D/12

Station - Tha Sae, A. Tha Sae, Chumphon, (X.64)
Stream - Khlong Tha Sae
River - Khlong Tha Taphao
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 070797

$QS = 1.4078\ QW^{1.50064}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.33	11.27	4.29	5.57	5338.30	262.62	288.41	935.33	269.91	47.29	20.46	11.27	
2	2.33	8.83	15.29	4.91	1673.70	160.70	255.40	645.36	862.43	45.93	19.69	10.85	
3	2.33	6.96	15.99	5.24	451.11	198.69	266.26	507.99	1534.43	43.58	18.93	11.27	
4	2.33	7.32	8.83	5.57	277.26	471.53	169.29	668.34	735.46	42.59	35.86	14.59	
5	5.24	8.83	18.18	17.44	195.73	905.93	141.31	645.36	497.48	41.61	17.44	17.44	
6	4.91	10.03	10.85	8.83	141.31	446.05	169.29	435.99	386.85	40.63	18.93	11.27	
7	4.60	25.27	15.29	7.69	110.23	1673.70	146.85	502.73	5719.13	39.66	15.99	10.03	
8	4.29	15.99	8.45	6.25	93.67	583.57	128.06	876.85	8757.42	37.75	15.29	8.83	
9	4.29	10.03	7.32	6.25	81.93	312.82	95.38	710.04	4416.14	34.93	13.90	8.06	
10	5.57	8.06	13.23	7.69	72.29	308.60	91.96	372.77	1110.28	34.01	12.56	8.06	
11	4.29	6.60	13.90	9.23	61.57	628.31	377.26	259.00	561.62	33.10	12.56	7.69	
12	3.98	5.91	10.03	17.44	52.85	605.80	117.74	214.09	368.43	32.20	11.91	7.32	
13	3.69	6.25	8.06	10.85	57.15	583.57	2202.85	172.12	288.41	31.30	11.27	7.32	
14	3.98	6.60	22.02	15.99	54.27	645.36	6977.72	146.85	230.67	28.66	11.27	6.96	
15	4.29	6.60	33.10	23.63	50.04	1727.36	4089.57	128.06	195.73	27.80	10.85	6.96	
16	4.60	6.25	29.53	15.29	50.04	1389.76	1118.11	177.93	163.48	26.95	10.85	6.25	
17	5.57	5.24	17.44	15.99	40.63	697.44	487.04	107.71	144.07	26.10	10.85	6.60	
18	4.91	4.91	10.03	15.99	95.38	377.26	296.31	656.82	125.50	25.27	10.44	6.96	
19	4.29	4.60	10.03	16.71	70.72	273.58	214.09	5298.72	105.92	24.44	10.44	6.96	
20	5.91	4.29	9.62	11.27	112.68	304.40	386.85	4194.86	98.85	23.63	10.44	6.96	
21	4.60	3.40	15.99	10.85	266.26	269.91	4305.02	1623.50	88.57	22.02	10.85	6.60	
22	5.91	4.29	10.85	10.03	112.68	163.48	5497.58	518.57	85.23	21.23	10.44	5.91	
23	5.24	4.29	8.83	1456.68	75.46	169.29	2239.82	338.01	80.29	21.23	10.44	5.91	
24	9.62	4.29	8.45	7173.60	195.73	138.66	1010.16	284.68	75.46	20.46	10.03	5.57	
25	16.71	3.98	7.69	5219.86	2009.19	115.15	1835.88	1727.36	69.17	19.69	9.62	5.24	
26	10.85	3.69	7.32	716.28	4565.76	141.31	1133.83	6805.12	64.57	19.69	9.62	5.24	
27	8.45	3.69	6.96	189.73	3098.42	141.31	1408.77	3799.16	60.09	18.93	10.85	5.24	
28	6.96	3.69	6.60	120.33	840.95	180.91	1032.99	1002.59	57.15	23.63	13.23	5.24	
29	6.96	3.12	5.57	1603.56	401.39	220.33	617.02	507.99	54.27	27.80		5.24	
30	17.44	2.59	5.57	10053.35	855.25	333.81	1002.59	342.36	52.85	26.95		5.57	
31		3.69		8455.38	312.82		1727.36		48.66	22.02		5.57	
Total	176.47	210.56	365.31	35237.48	21814.77	14431.21	39830.77	34606.26	27308.52	931.08	385.01	242.98	175540.42 Ton
Mean	5.88	6.79	12.18	1136.69	703.70	481.04	1284.86	1153.54	880.92	30.03	13.75	7.84	
Max	17.44	25.27	33.10	10053.35	5338.30	1727.36	6977.72	6805.12	8757.42	47.29	35.86	17.44	10053.35
Min	2.33	2.59	4.29	4.91	40.63	115.15	91.96	107.71	48.66	18.93	9.62	5.24	2.33

WATER YEAR 1996

SOUTHERN PENNINSULA EAST COAST

Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)

Location	Lat.08°-25′-35″ N., Long. 99°-51′-53″ E.,on left bank upstream side of the bridge, Ban Wang Kong, Amphoe Muang, Nakhon Si Thammarat.
Drainage Area	39 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 -Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:26:50.71 LQS/LQS02D/12

Station - Ban Wang Kong, Muang, Nakhon Si Thammarat, (X.70)
Stream - Khlong Ban Tan
River - Khlong Ban Tan
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 070797

$QS = 2.9572\ QW^{1.51319}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	1.58	0.82	1.26	0.74	0.97	2.78	3.32	14.43	6.14	3.85	2.61	
2	0.50	1.58	0.74	0.82	0.66	2.35	2.35	3.14	11.26	5.68	3.85	2.35	
3	0.97	1.91	2.35	6.14	0.58	1.58	1.37	2.61	114.90	5.52	3.85	2.03	
4	10.70	1.47	1.47	4.25	0.58	3.85	1.91	2.23	194.46	5.52	4.87	1.91	
5	1.58	1.58	1.91	1.80	0.97	5.08	1.47	2.03	74.18	4.87	2.03	1.80	
6	1.16	1.37	1.47	1.69	0.74	2.61	1.26	1.91	182.37	4.45	2.11	1.69	
7	1.16	2.03	1.47	1.26	0.58	2.03	1.47	4.25	518.50	4.45	2.11	1.58	
8	1.26	2.48	1.16	2.35	0.66	1.37	3.32	3.85	1104.23	4.05	2.61	1.80	
9	1.16	1.47	2.03	6.14	0.58	2.11	1.80	2.78	1782.09	4.87	7.81	1.58	
10	1.16	1.16	2.03	2.35	2.96	3.46	1.26	3.65	1139.44	4.45	2.61	1.47	
11	1.16	1.37	4.87	1.80	0.91	1.47	3.46	3.85	389.19	4.87	2.23	1.37	
12	1.16	1.47	5.52	1.69	0.74	1.80	5.08	2.35	220.94	5.30	2.11	1.26	
13	1.16	1.47	2.61	1.58	0.91	1.69	4.45	2.11	188.38	5.30	5.30	1.16	
14	0.97	1.47	2.11	1.26	0.82	2.03	9.09	5.30	79.72	4.45	2.23	1.26	
15	1.16	1.16	1.47	1.16	0.66	1.47	7.56	5.30	45.52	4.25	3.32	1.26	
16	0.97	1.16	1.37	1.47	0.66	1.47	9.09	7.56	35.21	4.25	2.23	1.91	
17	1.37	0.97	1.16	1.26	0.66	1.16	7.56	4.25	26.32	4.25	2.11	1.80	
18	0.97	0.91	1.07	1.07	0.58	0.82	6.14	5.52	20.98	4.25	2.03	1.37	
19	0.97	0.91	0.91	0.97	0.66	0.97	4.45	107.40	75.65	4.25	1.80	1.47	
20	0.97	0.82	0.97	0.91	0.58	0.91	7.81	232.64	87.22	3.85	1.80	1.37	
21	0.91	0.82	0.91	0.82	1.26	0.82	5.68	128.15	31.35	3.85	2.11	1.26	
22	1.07	0.82	0.97	0.74	3.65	0.82	8.06	220.94	25.47	3.85	2.03	1.16	
23	0.97	0.82	0.91	0.58	2.61	0.74	5.52	184.37	17.19	3.46	2.35	1.07	
24	1.07	0.82	0.82	1.80	2.23	0.91	4.45	73.38	11.83	3.65	2.61	3.32	
25	0.91	0.74	0.74	1.16	2.11	0.82	3.65	213.07	10.43	3.14	6.60	1.47	
26	0.91	0.74	0.82	0.97	2.03	0.82	4.87	141.88	10.43	3.14	5.30	1.26	
27	0.91	0.82	0.82	0.82	1.69	1.47	3.14	67.87	9.35	2.78	4.87	1.16	
28	1.16	0.97	1.37	0.74	5.08	1.47	2.48	40.52	9.35	2.35	3.14	0.97	
29	2.11	0.91	1.07	0.82	2.48	1.47	4.45	31.35	8.57	2.23		0.97	
30	2.78	0.91	1.07	0.74	2.11	2.48	6.37	22.92	7.81	1.91		0.97	
31		1.58		0.91	1.47		5.91		6.60	2.35		0.97	
Total	44.13	38.29	47.01	51.33	42.95	51.02	138.26	1530.50	6453.37	127.73	89.87	47.63	8662.09 Ton
Mean	1.47	1.24	1.57	1.66	1.39	1.70	4.46	51.02	208.17	4.12	3.21	1.54	
Max	10.70	2.48	5.52	6.14	5.08	5.08	9.09	232.64	1782.09	6.14	7.81	3.32	1782.09
Min	0.50	0.74	0.74	0.58	0.58	0.74	1.26	1.91	6.60	1.91	1.80	0.97	0.50

WATER YEAR 1996

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1989 - 1996

RID Computer Center, Processing : 14-AUG-1998 09:26:58.11 LQS/LQS02D/12

Station - Rangae, A. Rangae, Narathiwat, (X.73)
Stream - Khlong Tan Yong
River - Ya Kang
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 090797

$QS = 1.0427\ QW^{1.36908}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.61	3.68	4.99	4.99	6.81	96.47	12.23	51.05	31.49	98.51	11.30	7.08	
2	4.04	4.61	3.32	4.42	5.79	103.65	12.57	45.43	32.57	89.43	11.00	6.81	
3	3.68	3.86	2.80	3.86	5.19	157.93	13.21	37.54	121.66	73.90	10.71	6.05	
4	3.86	7.08	2.64	3.86	4.80	81.56	11.00	29.89	100.56	63.57	14.21	5.79	
5	4.61	5.39	3.15	4.23	4.42	51.74	7.61	26.76	114.15	56.08	12.87	5.39	
6	4.04	3.86	2.97	3.68	4.23	38.66	17.27	25.23	80.60	52.48	11.60	5.19	
7	3.32	3.68	2.80	3.86	4.23	41.99	34.20	27.79	57.55	48.90	11.30	4.99	
8	3.32	32.57	3.32	9.26	7.08	34.75	27.27	44.05	117.35	45.43	14.21	4.80	
9	3.15	22.25	3.32	44.76	11.60	28.84	16.90	33.65	577.03	40.64	14.21	5.39	
10	3.15	15.53	3.68	49.63	12.87	27.27	16.90	25.74	604.39	38.10	12.57	4.80	
11	2.80	11.60	3.50	100.56	11.30	23.23	15.53	21.76	497.20	35.86	11.00	4.61	
12	2.64	13.21	3.32	85.47	10.12	18.90	14.53	18.43	687.49	34.75	9.26	4.42	
13	2.47	15.53	3.32	39.35	50.32	16.57	16.21	18.43	642.71	33.11	8.98	4.04	
14	2.16	11.93	8.98	25.74	102.62	15.20	18.43	28.31	478.33	31.49	11.30	3.86	
15	2.16	8.70	11.60	19.84	73.90	13.21	17.63	50.32	358.96	29.36	12.23	3.86	
16	2.16	7.34	9.55	21.28	65.83	14.21	15.20	34.75	262.72	26.76	10.71	3.68	
17	2.16	6.56	5.79	22.25	80.60	14.53	52.48	25.74	189.78	24.73	9.55	3.68	
18	2.16	5.79	4.23	32.03	38.10	13.87	89.43	24.73	156.66	24.23	8.42	3.32	
19	1.59	4.99	3.32	26.25	27.27	15.53	42.69	34.20	136.30	22.74	8.98	3.15	
20	1.87	4.23	3.15	20.32	26.25	32.57	124.91	87.45	273.88	21.28	8.98	2.97	
21	1.72	3.86	3.15	15.88	75.80	43.35	118.42	59.03	559.86	19.84	7.08	2.97	
22	1.59	4.80	3.32	13.55	50.32	36.41	52.48	79.63	828.86	17.97	6.56	2.80	
23	2.80	7.08	4.61	11.93	56.84	27.79	36.97	68.28	880.69	16.90	7.61	2.80	
24	2.80	8.98	7.88	10.71	77.71	32.03	83.51	62.02	733.23	16.21	9.26	2.97	
25	2.80	11.30	8.98	9.26	53.92	25.74	204.44	60.52	562.27	15.88	11.93	2.80	
26	3.32	7.34	12.87	8.15	43.35	18.90	308.01	44.76	321.52	14.85	12.23	2.64	
27	6.05	5.39	12.87	7.08	38.66	15.53	154.18	46.82	207.41	14.53	10.12	2.64	
28	5.39	4.61	7.88	6.81	30.42	21.76	91.43	44.05	166.66	13.21	8.15	2.47	
29	3.86	3.86	6.30	6.56	29.36	15.88	64.30	37.54	136.30	12.87		3.68	
30	2.80	3.68	5.79	5.59	127.10	13.87	49.63	31.49	119.50	12.23		4.61	
31		3.68		5.39	144.55		38.66		106.77	11.30		4.61	
Total	93.08	256.97	163.40	626.55	1281.36	1091.94	1778.23	1225.39	10144.45	1057.14	296.33	128.87	18143.71 Ton
Mean	3.10	8.29	5.45	20.21	41.33	36.40	57.36	40.85	327.24	34.10	10.58	4.16	
Max	6.05	32.57	12.87	100.56	144.55	157.93	308.01	87.45	880.69	98.51	14.21	7.08	880.69
Min	1.59	3.68	2.64	3.68	4.23	13.21	7.61	18.43	31.49	11.30	6.56	2.47	1.59

WATER YEAR 1996

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 - Cont'd
Actual Measurement	1984 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:27:04.92 LQS/LQS02D/12

Station - Ban Rim Khlong, Chaiya, Surat Thani, (X.103)
Stream - Khlong Takhian
River - Khlong Takhian
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 040797
1.33367
QS = 1.7590 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.83	11.59	1.22	1.97	0.23	5.03	9.78	5.78	58.50	19.19	3.80	2.05	
2	1.48	10.29	3.21	2.12	3.05	5.91	11.59	5.34	78.29	18.59	3.40	1.97	
3	1.09	7.82	0.97	1.90	2.27	6.36	13.74	4.61	393.64	17.42	2.97	1.83	
4	1.03	6.49	1.16	1.62	0.45	6.07	10.03	4.00	467.94	16.55	3.40	2.42	
5	0.85	5.78	1.09	1.62	1.90	24.43	8.30	3.88	283.17	15.69	3.49	2.50	
6	0.79	5.25	0.85	1.62	1.69	31.02	10.03	4.61	176.16	14.85	2.12	2.27	
7	0.62	4.91	1.03	1.55	1.09	18.89	7.99	8.13	190.34	14.29	2.19	1.83	
8	0.48	4.49	0.97	1.55	1.03	17.42	11.06	9.03	1556.10	13.46	3.21	2.34	
9	0.45	4.29	1.16	1.42	1.03	12.65	8.54	7.55	758.31	12.65	2.50	1.22	
10	0.42	4.70	0.97	1.42	1.22	16.84	7.55	8.30	537.44	12.12	2.50	0.91	
11	0.38	4.40	0.42	0.91	1.35	17.13	7.38	6.49	322.28	11.06	2.57	0.85	
12	0.38	4.40	0.42	1.03	0.48	16.26	7.21	5.50	198.71	10.29	2.50	1.42	
13	0.23	4.20	1.62	1.03	1.42	18.30	7.21	4.70	138.57	9.53	2.50	1.55	
14	0.15	4.61	0.85	1.16	1.16	16.84	7.21	4.82	102.41	8.79	2.50	1.16	
15	0.10	4.49	0.85	2.81	0.68	14.29	6.62	4.08	79.88	8.13	2.42	1.62	
16	0.68	4.08	0.57	4.61	0.26	11.85	5.91	4.61	67.46	7.68	2.34	2.05	
17	0.48	3.49	0.79	3.57	0.21	9.78	5.25	4.08	56.48	7.21	2.27	0.97	
18	0.38	2.89	0.38	3.88	0.15	8.30	4.70	4.29	49.88	7.21	2.27	1.16	
19	0.38	2.50	1.42	4.29	0.13	7.55	4.61	7.08	46.02	6.78	2.19	1.90	
20	0.45	2.19	1.97	3.68	0.48	6.78	4.29	310.24	41.61	6.78	2.19	0.97	
21	0.42	2.12	2.19	3.21	0.62	6.07	4.20	537.44	38.53	6.49	2.19	1.09	
22	0.18	2.27	2.65	3.13	1.42	5.91	4.40	390.01	35.72	5.91	2.12	0.91	
23	0.13	1.90	2.57	3.57	1.97	5.25	5.03	238.84	32.95	5.91	2.12	0.68	
24	0.13	1.83	1.97	2.73	2.27	5.13	5.13	200.40	30.63	5.78	2.05	0.68	
25	0.32	1.62	1.76	3.05	4.61	5.13	5.62	316.25	28.73	5.13	2.05	0.74	
26	4.82	1.62	2.05	1.55	17.42	5.03	6.36	510.13	26.49	5.03	2.19	0.91	
27	8.79	1.55	1.55	1.55	15.98	4.91	5.62	299.93	25.38	4.70	2.12	2.89	
28	12.38	1.48	1.42	3.05	8.54	5.62	5.34	143.63	23.48	4.61	2.12	2.19	
29	8.79	2.57	1.42	2.65	6.49	6.49	5.62	92.61	22.54	4.61		0.97	
30	7.68	0.85	1.28	2.12	5.25	7.55	6.94	68.22	21.61	4.29		0.91	
31		0.91		0.26	4.40		6.62		20.39	4.29		0.97	
Total	56.29	121.58	40.78	70.63	89.25	328.79	219.88	3214.58	5909.64	295.02	70.29	45.93	10462.66 Ton
Mean	1.88	3.92	1.36	2.28	2.88	10.96	7.09	107.15	190.63	9.52	2.51	1.48	
Max	12.38	11.59	3.21	4.61	17.42	31.02	13.74	537.44	1556.10	19.19	3.80	2.89	1556.10
Min	0.10	0.85	0.38	0.26	0.13	4.91	4.20	3.88	20.39	4.29	2.05	0.68	0.10

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)

Location — Lat. 9°-34′-47″ N., Long. 99°-08′-14″ E., on left bank at Ban Samo Thong, Amphoe Tha Chana, Surat Thani.

Drainage Area — 354 sq.km.

Method of Sampling — Depth Integrating

Instrument Used — US.D - 49

Period of Available Records — 1984 - Cont'd

Actual Measurement — 1984 - Cont'd

Remarks — Continued Sediment Station

Using Rating Curve Water Year 1996

RID Computer Center, Processing : 14-AUG-1998 09:27:14.50 LQS/LQS02D/12

Station - Ban Samo Thong, Tha Chana, Surat Thani, (X.104)
Stream - Khlong Tha Krachai
River - Khlong Tha Krachai
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 080797

$QS = 1.5645\ QW^{1.40117}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	11.03	2.26	3.56	30.97	32.11	225.96	19.71	154.54	39.18	11.53	7.12	
2	1.35	13.68	2.02	3.29	21.32	79.89	171.45	17.40	222.42	37.98	8.51	7.12	
3	1.35	11.53	2.51	2.76	13.68	41.63	118.49	16.62	1793.03	34.42	8.51	3.56	
4	2.02	9.02	4.13	3.56	9.49	78.41	84.66	15.89	956.50	30.97	8.05	5.78	
5	3.02	7.12	7.12	6.23	9.02	147.97	69.68	15.13	594.65	29.84	7.57	20.53	
6	5.78	7.57	6.23	7.12	7.12	104.95	54.47	19.71	337.50	28.93	7.12	8.51	
7	4.13	7.57	4.54	4.13	6.65	64.03	49.22	30.97	1206.86	27.17	6.23	6.23	
8	3.56	5.78	3.29	3.85	6.23	46.65	116.53	24.63	4830.79	27.17	5.78	4.93	
9	3.56	6.23	3.29	3.56	5.78	40.40	101.17	18.15	1144.54	25.45	6.23	4.13	
10	3.56	8.51	3.29	3.29	5.37	54.47	57.16	17.40	659.38	23.76	6.23	3.56	
11	3.29	7.57	3.29	3.02	4.93	110.69	58.51	14.42	630.37	24.63	5.78	3.29	
12	3.29	6.65	3.85	3.56	4.93	124.59	47.93	11.53	1014.79	17.40	5.37	3.02	
13	2.76	8.51	3.56	5.37	4.93	166.09	45.38	10.01	725.99	17.40	5.37	2.76	
14	2.76	6.23	4.54	6.23	3.85	139.33	53.15	9.02	329.15	17.40	6.65	2.76	
15	1.56	5.37	7.12	9.02	3.56	103.05	71.11	8.05	258.55	17.40	6.65	2.51	
16	1.56	6.23	5.78	9.49	3.56	75.46	53.15	12.08	201.77	16.62	5.37	2.26	
17	2.02	5.37	3.56	11.53	4.13	64.03	39.18	12.08	174.15	15.13	4.93	2.26	
18	2.51	4.13	3.56	17.40	4.13	54.47	33.26	13.68	147.97	14.42	4.54	2.26	
19	2.26	3.85	3.29	12.08	4.93	44.12	27.17	91.89	132.96	13.68	4.54	2.26	
20	2.76	3.56	3.29	9.49	7.57	35.59	24.63	2180.94	116.53	13.15	3.85	2.26	
21	2.76	3.56	3.85	9.02	10.50	28.07	27.17	1057.16	103.05	12.59	3.85	2.51	
22	4.13	3.29	3.85	7.12	12.08	22.95	39.18	1413.98	91.89	12.08	4.13	4.54	
23	10.50	3.29	4.93	5.78	22.95	22.11	35.59	1244.38	86.45	11.03	3.85	3.56	
24	19.71	3.29	3.85	11.53	18.15	30.97	33.26	795.57	71.11	10.50	4.93	3.85	
25	37.98	3.85	3.56	18.15	55.81	33.26	29.84	1188.96	74.00	10.01	5.37	2.76	
26	32.11	3.85	3.02	11.53	196.16	28.93	26.33	1424.15	61.25	9.49	5.37	2.51	
27	20.53	3.02	2.76	8.05	110.69	61.25	22.95	630.37	57.16	8.51	7.57	2.26	
28	19.71	2.76	2.76	7.57	62.63	124.59	22.95	312.65	51.83	8.51	7.12	2.26	
29	27.17	2.76	2.26	7.12	40.40	187.82	37.98	243.91	49.22	10.01		1.56	
30	20.53	2.51	2.02	6.65	29.84	204.60	25.45	176.86	45.38	11.53		1.56	
31		2.26		6.65	26.33		24.63		42.87	11.53		1.56	
Total	249.79	179.95	113.38	227.71	747.69	2352.48	1827.59	11047.30	16366.65	587.89	171.00	126.04	33997.47 Ton
Mean	8.33	5.80	3.78	7.35	24.12	78.42	58.95	368.24	527.96	18.96	6.11	4.07	
Max	37.98	13.68	7.12	18.15	196.16	204.60	225.96	2180.94	4830.79	39.18	11.53	20.53	4830.79
Min	1.35	2.26	2.02	2.76	3.56	22.11	22.95	8.05	42.87	8.51	3.85	1.56	1.35

WATER YEAR 1996

SOUTHERN PENINSULA EAST COAST

Kolok River at Sungai Kolok, Narathiwat (X.119A)

Location	Lat. 6°01'07" N., Long. 101°58'43" E., on left bank at the railway bridge near the immigration division, Amphoe Sungai Kolok, Narathiwat.
Drainage Area	1,358 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1987 - 1996

RID Computer Center, Processing : 14-AUG-1998 09:27:47.13 LQS/LQS02D/12

Station - Sungai Kolok, A. Sungai Kolok, Narathiwat, (X.119A)
Stream - Kolok
River - Kolok
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 110797

$QS = 0.5970\ QW^{1.43264}$

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.70	7.41	13.90	9.70	14.46	412.88	112.56	191.00	169.65	182.27	16.17	18.53	
2	9.11	10.20	12.81	9.11	13.35	343.32	127.40	289.61	160.31	160.31	15.02	15.02	
3	8.53	13.90	20.37	8.82	12.27	538.80	257.78	325.12	422.16	136.79	15.02	13.35	
4	11.74	10.71	79.31	8.53	11.74	653.35	284.65	234.08	516.90	116.95	37.82	11.22	
5	14.46	11.74	20.37	8.82	12.81	568.42	164.03	234.08	319.97	105.35	36.04	9.70	
6	12.81	19.14	15.02	11.22	16.17	319.97	154.78	241.12	220.19	95.50	36.04	8.82	
7	9.11	40.55	13.90	12.27	19.14	284.65	338.09	238.76	158.46	90.00	28.95	8.53	
8	7.68	73.21	14.46	15.59	29.73	241.12	292.11	204.31	373.43	91.37	35.22	8.24	
9	6.86	133.49	11.74	51.00	43.32	171.54	227.10	151.13	1219.69	91.37	40.55	8.53	
10	6.60	118.43	12.81	255.38	57.17	135.03	193.20	138.56	1558.26	80.63	54.98	7.96	
11	6.33	79.31	15.02	257.78	78.01	108.21	135.03	128.92	1407.79	73.21	35.22	7.13	
12	6.07	70.85	15.02	191.00	48.08	92.74	191.00	98.28	1617.48	70.85	26.72	6.86	
13	6.07	63.90	16.17	99.68	51.99	73.21	238.76	94.11	1791.42	70.85	20.99	6.33	
14	5.07	45.21	24.51	73.21	79.31	65.06	220.19	96.89	1730.31	63.90	22.38	6.33	
15	4.35	32.84	39.63	70.85	109.65	69.65	248.22	164.03	1461.64	56.05	21.67	6.07	
16	4.59	24.51	51.00	59.39	83.27	98.28	206.56	135.03	1067.86	50.02	19.14	5.56	
17	5.31	24.51	66.19	67.33	78.01	112.56	229.42	94.11	689.02	47.12	15.59	5.07	
18	5.82	20.99	61.63	67.33	53.98	99.68	182.27	92.74	495.28	45.21	13.90	4.59	
19	6.60	17.93	54.98	63.90	73.21	106.78	140.33	167.77	397.57	41.47	12.81	4.35	
20	6.86	17.93	29.73	57.17	95.50	118.43	206.56	367.47	491.70	37.82	11.22	4.15	
21	7.41	16.75	27.47	51.99	112.56	112.56	241.12	289.61	938.59	35.22	10.71	6.86	
22	8.24	19.14	30.48	40.55	96.89	108.21	131.96	238.76	1495.61	32.84	10.20	16.17	
23	9.11	31.27	29.73	31.27	105.35	138.56	102.50	222.49	2078.67	28.95	15.59	8.82	
24	10.20	40.55	30.48	30.48	202.08	175.81	106.78	213.34	2002.30	29.73	50.02	7.13	
25	9.70	41.47	29.73	31.27	265.03	289.61	136.79	171.54	1529.81	28.21	70.85	7.41	
26	8.53	25.99	25.25	31.27	269.89	498.86	373.43	156.62	918.13	24.51	35.22	5.82	
27	9.70	33.62	22.38	18.53	243.48	594.72	609.92	257.78	553.55	22.38	27.47	4.82	
28	8.82	36.93	16.75	16.17	119.91	391.49	644.52	343.32	406.74	21.67	25.25	4.82	
29	7.13	28.95	13.35	12.81	96.89	204.31	459.87	217.90	322.54	20.99		8.53	
30	6.60	21.67	11.74	10.71	112.56	136.79	231.74	188.80	260.19	17.93		15.02	
31		16.75		9.40	317.40		145.70		217.90	16.75		11.22	
Total	239.11	1149.85	825.93	1682.53	2923.21	7264.60	7334.37	5987.28	26993.12	1986.22	760.76	262.96	57409.95 Ton
Mean	7.97	37.09	27.53	54.28	94.30	242.15	236.59	199.58	870.75	64.07	27.17	8.48	
Max	14.46	133.49	79.31	257.78	317.40	653.35	644.52	367.47	2078.67	182.27	70.85	18.53	2078.67
Min	4.35	7.41	11.74	8.53	11.74	65.06	102.50	92.74	158.46	16.75	10.20	4.15	4.15

WATER YEAR 1996

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 — US.DH - 59

Period of Available Records — 1985 - Cont'd

Actual Measurement — 1985 - cont'd

Remarks — Continued Sediment Station

Using Rating Curve Water Year 1985 - 1996

RID Computer Center, Processing : 14-AUG-1998 09:27:54.44 LQS/LQS02D/12

Station - Waeng, Waeng, Narathiwat, (X.121)
Stream - Khlong Waeng
River - Kolok
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 110797
1.33310
QS = 1.6579 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.11	0.95	0.95	1.19	1.27	7.59	4.40	5.62	5.09	7.36	1.61	2.07	
2	1.19	0.88	0.88	1.19	1.27	10.45	5.83	7.82	6.48	7.59	1.53	1.97	
3	1.11	0.80	1.11	1.19	1.19	19.16	5.27	4.92	29.79	5.83	1.53	1.88	
4	1.36	0.95	0.95	1.19	1.11	15.78	4.40	5.27	10.45	5.27	3.26	1.88	
5	1.27	1.03	0.95	1.11	1.03	9.93	3.90	13.05	11.02	5.09	2.16	1.70	
6	1.19	1.36	0.95	1.61	1.03	8.27	8.51	5.09	7.59	4.74	6.26	1.70	
7	1.19	1.11	1.53	1.19	1.03	5.62	5.62	7.14	6.26	4.23	3.26	1.70	
8	1.19	1.53	1.27	1.44	1.53	6.05	4.92	6.92	70.44	4.74	3.26	1.70	
9	1.03	2.16	1.44	28.65	1.27	6.05	4.23	5.62	29.79	3.90	8.27	1.53	
10	0.95	1.36	1.53	6.26	2.16	4.92	4.07	5.09	20.89	3.74	4.07	1.36	
11	1.19	1.36	1.19	22.70	1.36	4.40	3.42	4.40	71.17	3.74	3.42	1.36	
12	1.11	1.53	1.11	8.04	1.03	3.74	0.55	3.74	56.65	3.42	2.80	1.36	
13	0.95	1.27	2.95	5.44	2.07	3.42	4.23	4.40	28.25	3.10	2.35	1.36	
14	0.88	1.27	5.44	4.23	2.65	2.95	3.74	5.62	23.04	3.10	2.65	1.27	
15	0.88	1.19	2.50	4.07	2.07	3.74	3.10	6.05	19.49	2.80	2.16	1.19	
16	1.11	1.19	1.88	3.90	6.70	3.58	2.95	4.07	15.16	2.65	2.07	1.19	
17	0.80	1.27	4.23	5.83	2.35	4.74	5.09	4.23	13.05	2.65	1.97	1.11	
18	1.03	1.03	2.65	4.92	2.26	3.74	3.26	4.74	13.34	2.26	1.88	1.11	
19	0.80	1.11	1.88	3.42	4.23	8.51	3.10	14.24	11.02	2.16	1.70	1.11	
20	0.80	1.27	1.70	2.65	13.34	8.51	7.82	8.51	32.87	2.16	1.70	1.11	
21	0.88	1.61	1.61	2.26	6.92	5.44	4.23	6.48	39.07	2.16	1.70	1.79	
22	1.79	1.88	1.97	1.97	4.40	10.73	3.42	6.48	93.13	2.16	1.79	1.27	
23	1.79	1.36	1.88	1.97	5.09	7.14	2.95	8.74	42.21	1.97	2.35	1.11	
24	1.36	2.35	1.88	1.70	11.88	9.93	3.10	5.83	16.44	1.97	4.57	1.53	
25	1.11	1.61	1.70	1.61	6.70	8.27	9.21	5.27	16.44	1.88	4.23	1.03	
26	1.03	1.44	1.61	1.61	8.74	14.85	13.64	4.57	13.94	1.79	2.50	1.03	
27	1.03	1.97	1.61	1.61	5.44	11.02	11.30	15.16	12.17	1.79	2.16	1.03	
28	0.88	1.36	1.44	1.61	4.40	7.14	7.59	6.70	10.73	1.79	2.07	1.03	
29	0.95	1.27	1.27	1.53	3.74	5.83	6.05	6.05	9.69	1.70		1.44	
30	1.44	1.03	1.19	1.44	19.86	4.74	5.09	5.44	8.74	1.61		1.03	
31		1.03		1.36	15.78		4.40		8.27	1.61		1.03	
Total	33.40	41.53	53.25	128.89	143.90	226.24	159.39	197.26	752.67	100.96	79.28	42.98	1959.75 Ton
Mean	1.11	1.34	1.78	4.16	4.64	7.54	5.14	6.58	24.28	3.26	2.83	1.39	
Max	1.79	2.35	5.44	28.65	19.86	19.16	13.64	15.16	93.13	7.59	8.27	2.07	93.13
Min	0.80	0.80	0.88	1.11	1.03	2.95	0.55	3.74	5.09	1.61	1.53	1.03	0.55

WATER YEAR 1996

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.DH - 74
Period of Available Records	1986 - Cont'd
Actual Measurement	1986 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1986 - 1996

RID Computer Center, Processing : 14-AUG-1998 09:28:02.12 LQS/LQS02D/12

Station - Ban Lam Khlaeng, Palian, Trang, (X.139)
Stream - Khlong Palian
River - Khlong Palian
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division 110797
1.79473
QS = 0.4979 QW

Water Year - 1996

Suspended Sediment, in Tons per Day, Water Year April 1, 1996 to March 31, 1997

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.99	2558.72	6.97	15.90	4.67	59.71	117.53	44.34	32.73	24.42	6.57	4.34	
2	6.16	96.36	7.37	13.39	4.67	75.41	98.21	103.84	34.51	22.12	6.16	5.39	
3	2.00	44.34	8.28	11.17	4.67	72.14	72.14	65.80	412.14	20.65	6.97	4.67	
4	0.65	68.94	10.65	10.65	4.34	52.48	75.41	52.48	80.44	19.96	11.17	4.34	
5	0.97	30.09	27.61	14.64	4.34	51.08	73.77	58.23	113.54	19.23	9.20	4.34	
6	0.52	25.18	14.64	19.96	3.99	40.13	202.29	46.99	100.07	17.86	6.57	3.99	
7	0.52	22.12	12.26	29.28	3.68	33.59	113.54	55.32	119.55	17.21	6.97	3.68	
8	0.39	21.40	14.01	48.34	6.16	36.35	72.14	56.77	121.58	16.53	12.82	4.67	
9	0.52	15.25	15.90	70.53	48.34	35.40	68.94	64.25	480.09	15.90	9.20	3.68	
10	3.99	12.82	19.23	29.28	147.13	30.98	225.33	59.71	196.83	14.64	11.17	3.37	
11	4.67	14.01	28.41	20.65	87.36	29.28	205.11	85.60	186.36	13.39	12.82	3.08	
12	1.56	18.56	16.53	19.23	55.32	24.42	205.11	59.71	183.78	12.82	8.72	3.08	
13	0.97	35.40	19.23	15.25	33.59	22.12	161.29	52.48	131.96	12.26	8.28	3.08	
14	0.52	85.60	17.21	12.82	22.89	21.40	138.37	48.34	100.07	11.68	11.68	2.79	
15	0.39	34.51	12.82	11.68	17.86	19.96	219.47	53.89	83.86	11.17	8.28	3.08	
16	0.39	37.25	11.68	10.65	15.90	18.56	121.58	44.34	78.74	10.65	6.97	2.79	
17	0.52	26.00	10.17	9.66	26.77	26.00	98.21	42.09	64.25	10.17	6.57	3.37	
18	0.39	21.40	9.66	9.20	72.14	20.65	94.53	53.89	62.72	10.17	6.16	3.37	
19	0.65	20.65	8.72	8.72	129.86	16.53	117.53	89.12	65.80	9.20	5.78	3.08	
20	3.37	17.86	7.82	8.28	38.22	15.90	166.17	87.36	85.60	9.20	5.39	3.08	
21	0.97	14.64	7.37	8.28	39.14	14.64	351.09	105.75	78.74	9.20	5.04	3.68	
22	1.77	13.39	6.97	7.37	55.32	14.01	292.47	83.86	58.23	8.28	5.04	3.37	
23	7.82	14.01	6.97	6.97	40.13	16.53	151.71	65.80	48.34	8.28	6.16	3.68	
24	7.37	12.82	6.16	7.82	89.12	18.56	107.68	59.71	42.09	8.28	7.82	4.67	
25	2.00	11.17	10.17	7.37	80.44	19.23	87.36	65.80	38.22	8.28	6.16	3.08	
26	2.79	10.17	6.97	6.57	65.80	36.35	78.74	52.48	35.40	7.82	5.04	2.79	
27	8.72	9.20	6.57	6.16	43.05	313.55	59.71	43.05	33.59	7.37	4.67	2.25	
28	11.68	8.72	6.57	5.78	51.08	289.02	53.89	37.25	30.98	7.37	4.34	2.25	
29	22.12	8.28	22.12	5.39	75.41	243.32	49.70	34.51	28.41	6.97		2.25	
30	34.51	7.37	11.17	5.04	309.99	202.29	48.34	35.40	26.77	6.97		2.00	
31		8.28		5.04	83.86		53.89		25.18	6.97		2.00	
Total	132.89	3324.51	370.21	461.07	1665.24	1869.59	3981.25	1808.16	3180.57	385.02	211.72	105.29	17495.52 Ton
Mean	4.43	107.24	12.34	14.87	53.72	62.32	128.43	60.27	102.60	12.42	7.56	3.40	
Max	34.51	2558.72	28.41	70.53	309.99	313.55	351.09	105.75	480.09	24.42	12.82	5.39	2558.72
Min	0.39	7.37	6.16	5.04	3.68	14.01	48.34	34.51	25.18	6.97	4.34	2.00	0.39